





UNITED STATES  
DEPARTMENT OF AGRICULTURE  
LIBRARY



BOOK NUMBER

812161

1.916

B471

15

Jan.—June

1951















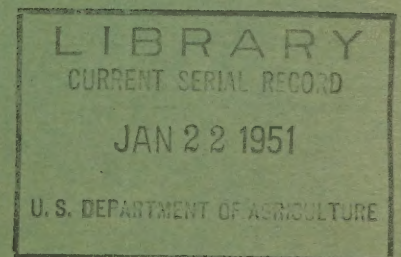


9-10

# BIBLIOGRAPHY OF AGRICULTURE



U.S. DEPARTMENT  
OF AGRICULTURE  
LIBRARY





The subject index for volume 14 of the Bibliography of Agriculture will appear as number 12 of volume 14, the issue of December 1950.

Abbreviations used in this publication are from the United States Department of Agriculture Bibliographical Bulletin 12, List of Serials Currently Received in the Library of the United States Department of Agriculture, November 1, 1949 (to be published about July 15, 1950).

Call numbers following the citations are those of the United States Department of Agriculture Library. Please use them when requesting publications on loan from the Library.

Except for printed publications of the Department of Agriculture which are usually available in limited supply for free distribution, the publications listed herein are not available for free distribution from the Department. However, photoprint or microfilm copies of any publication listed may be obtained from the Library. Copying charges for each periodical article or book are:

**MICROFILMS:**

\$1.00 for each 50 pages or fraction thereof from a single article or book.

**PHOTOPRINTS:**

\$1.00 for each 10 pages or fraction thereof from a single article or book.

**ALL CHARGES ARE CASH WITH ORDER.** (Only Federal agencies are exempt.)

Enclose payment in cash, library coupon, check, or money order drawn to the Treasurer of the United States.

**LIBRARY COUPONS**—United States Department of Agriculture Library coupons valued at \$1.00 each may be ordered in any quantity.

The printing of this publication has been approved by the Director of the Bureau of the Budget. (Jan. 11, 1950).



## UNITED STATES DEPARTMENT OF AGRICULTURE

## LIBRARY

## BIBLIOGRAPHY OF AGRICULTURE

Vol. 15

January 1951  
Items 1-10434

No. 1

## CONTENTS

	Item		Item		Item
<b>Plant Science</b>	1-2187	<b>Soil Management</b>	2412	<b>Seasoning, Conditioning and</b>	
<b>Systematic and Geographic</b>		<b>Soil Fertility</b>	2438	<b>Finishing</b>	3449
<b>Botany</b>	86	<b>Tilth and Tillage</b>	2589	<b>Wood Preservation and Damage</b>	3463
<b>Spermatophytes</b>	109	<b>Drainage, Irrigation, Water</b>		<b>Forest Products</b>	3482
<b>Pteridophytes</b>	214	<b>Supply, etc.</b>	2616	<b>Lumber and Rough Products</b>	3490
<b>Bryophytes</b>	222	<b>Erosion and Control</b>	2737	<b>Building Construction</b>	3494
<b>Algae</b>	231	<b>Sanitation</b>	2828	<b>Veneers, Plywood and</b>	
<b>Fungi and Lichens</b>	246	<b>Materials for Soil Improvement</b>		<b>Adhesives</b>	3503
<b>Pathology</b>	280	<b>Primary Materials</b>	2836	<b>Containers</b>	3522
<b>Fungus Diseases</b>	372	<b>Secondary and Minor Element</b>	2839	<b>Pulp and Paper</b>	3525
<b>Bacterial Diseases</b>	503	<b>Materials</b>	2847	<b>Chemical Products and</b>	
<b>Virus Diseases</b>	516	<b>Mixed Fertilizers and Fertilizer</b>		<b>Distillates</b>	3555
<b>Nematodes</b>	558	<b>Technology</b>	2849	<b>Naval Stores</b>	3574
<b>Ecology</b>	570	<b>Fertilizer Statistics</b>	2856	<b>Other Forest Products</b>	3585
<b>Morphology, Anatomy, and</b>		<b>Mineral Soil Amendments</b>	2867	<b>Wood Technology</b>	3604
<b>Cytology</b>	600	<b>Manures and Composts</b>	2872	<b>Properties and Structure</b>	3632
<b>Genetics</b>	679	<b>Forestry</b>	2898-3657	<b>Animal Industry</b>	3658-5249
<b>Physiology</b>	723	<b>General</b>	2898	<b>Breeds and Breeding</b>	3658
<b>Biochemistry</b>	990	<b>Education</b>	2931	<b>Feeds and Feeding</b>	3686
<b>Field Crops</b>	1048	<b>Policies, Programs, Administra-</b>		<b>Veterinary Medicine</b>	3786
<b>Cereals</b>	1082	<b>tion</b>	2941	<b>Miscellaneous</b>	3963
<b>Fiber Crops</b>	1189	<b>Legislation and Taxation</b>	2999	<b>Cattle</b>	3992
<b>Forage and Grasses</b>	1223	<b>Description and Resources</b>	3008	<b>Breeds and Breeding</b>	3992
<b>Oil Crops</b>	1431	<b>Individual Genera</b>	3040	<b>Feeds and Feeding</b>	4116
<b>Sugar Crops</b>	1448	<b>Forest Management and Finance</b>		<b>Veterinary Medicine</b>	4190
<b>Tobacco</b>	1472	<b>Farm Woodlands</b>	3075	<b>Miscellaneous</b>	4352
<b>Horticultural Crops</b>	1482	<b>Mensuration</b>	3141	<b>Dogs and Cats</b>	4411
<b>Fruits</b>	1518	<b>Aerial Surveying and Photog-</b>		<b>Breeds and Breeding</b>	4411
<b>Citrus and Subtropical</b>	1562	<b>raphy</b>	3161	<b>Feeds and Feeding</b>	4434
<b>Deciduous</b>	1606	<b>Silviculture</b>	3165	<b>Veterinary Medicine</b>	4435
<b>Small</b>	1650	<b>Silvicultural Practices</b>	3215	<b>Miscellaneous</b>	4491
<b>Nuts</b>	1718	<b>Seeding and Planting</b>	3241	<b>Fur Animals - Pen Raised</b>	4508
<b>Shade Trees and Ornamental</b>		<b>Forest Protection and Damage</b>		<b>Breeds and Breeding</b>	4508
<b>Plants</b>	1727	<b>Fire</b>	3301	<b>Feeds and Feeding</b>	4511
<b>Vegetables</b>	1949	<b>Forest Influences</b>	3317	<b>Veterinary Medicine</b>	4515
<b>Weeds and Poisonous Plants</b>	2055	<b>Miscellaneous Forest Uses</b>	3345	<b>Miscellaneous</b>	4522
<b>Miscellaneous</b>	2110	<b>Forest Industries</b>	3361	<b>Horses and Mules</b>	4526
<b>Soils and Fertilizers</b>	2188-2897	<b>Lumbering</b>	3374	<b>Breeds and Breeding</b>	4526
<b>Soil Science</b>	2188	<b>Lumbering Equipment</b>	3377	<b>Feeds and Feeding</b>	4558
<b>Soil Physics</b>	2200	<b>Logging</b>	3399	<b>Veterinary Medicine</b>	4562
<b>Soil Chemistry</b>	2247	<b>Sawmills</b>	3424	<b>Miscellaneous</b>	4626
<b>Soil Biology</b>	2317	<b>Processing and Woodworking</b>	3436	<b>Laboratory Animals, Small</b>	4648
<b>Soil-Plant-Animal Relation-</b>				<b>Feeds and Feeding</b>	4648
<b>ships</b>	2352			<b>Veterinary Medicine</b>	4652
<b>Soil Genesis, Formation, Classi-</b>					
<b>fication, and Mapping</b>	2367				

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.  
\$6.00 per year, domestic; \$8.00 per year, foreign. Single copies vary in price.



	Item		Item		Item
Poultry	4653	Walls and Fences	6902	Seeds	8942
Breeds and Breeding	4653	Utilities		Sugar and Sirups	8962
Feeds and Feeding	4716	Electricity and Electrification		Tobacco	9033
Veterinary Medicine	4767		6909	Miscellaneous	9054
Miscellaneous	4874	Heating, Lighting, and Radiation		Agricultural Economics and Rural	
Rabbits	4988		6942	Sociology	9075-10070
Breeds and Breeding	4988	Power Plants, Motors and		Agricultural Finance	9099
Veterinary Medicine	5003	Engines	6946	Credit	9105
Miscellaneous	5020	Sewage and Waste Disposal	6950	Income	9139
Sheep and Goats	5028	Telephones	6952	Inflation	9146
Breeds and Breeding	5028	Water Supply	6956	Insurance	9149
Feeds and Feeding	5062	Agricultural Products: Processing,		Taxation	9167
Veterinary Medicine	5071	Distribution, and Statistics	6965-	Agricultural Labor and Wages	
Miscellaneous	5114		9074		9192
Swine	5141	Analysis and Composition	7004	Agriculture - Situation, Policies,	
Breeds and Breeding	5141	Consumption, etc.	7054	and Programs	9237
Feeds and Feeding	5154	Distribution, etc.	7064	Subsidies	9401
Veterinary Medicine	5175	Grading, etc.	7119	Cost and Standard of Living	9402
Miscellaneous	5223	Packing and Packaging	7135	Farm Management and Land	
Entomology	5250-6523	Prices, etc.	7154	Economics	9405
General - Economic	5275	Processing and Storage	7191	Bookkeeping and Records	9515
Apiculture and Apis Mellifera		Statistics	7244	Costs and Returns	9520
	5481	Beverages and Condiments	7273	Land Settlement and Colonization	
Arachnida, etc.	5613	Dairy Products	7403		9567
Coleoptera	5681	Analysis and Composition	7467	Land Tenure	9582
Diptera	5823	Consumption, etc.	7540	Land Utilization	9640
Culicidae	5977	Distribution, etc.	7551	Land Values, etc.	9658
Hemiptera	6081	Grading, etc.	7598	Population	9663
Hymenoptera	6179	Packing and Packaging	7639	Rural Social Organization	9676
Lepidoptera	6239	Prices, etc.	7645	Human Ecology	9705
Orthoptera	6404	Processing and Storage	7660	Institutions	9726
Sericulture and the Silkworm	6442	Statistics	7768	Leadership	9897
Smaller Orders	6451	Feed and Forage Crops	7773	Rural Organizations and	
Agricultural Engineering	6524-	Fibers and Textiles	7811	Movements	9902
	6964	Fruits, Vegetables, and Nuts	8011	Rural Social Psychology	9988
General and Miscellaneous	6524	Analysis and Composition	8070	Trade, Foreign and International	
Machines and Equipment	6553	Consumption, etc.	8102		9999
Animal Husbandry	6612	Distribution, etc.	8109	Food and Human Nutrition	10071-
Cultivation and Tillage	6636	Grading, etc.	8155		10193
Fertilizer and Seed Distributors		Packing and Packaging	8189	Food Habits	10143
	6669	Prices, etc.	8200	Nutritive and Vitamin Content	
Harvesting	6683	Processing and Storage	8207		10151
Land Clearing Equipment	6720	Statistics	8288	Miscellaneous	10194-10434
Processing Equipment Used on		Grain and Grain Products	8296	History and Biography	10272
the Farm	6722	Honey and Beeswax	8450	Home Management	10346
Repair, Maintenance, and Con-		Livestock and Livestock Products		International Relations	10372
struction	6747		8471	Meteorology	10382
Spraying and Dusting	6755	Analysis and Composition	8545	Personnel	10404
Vehicles	6766	Consumption, etc.	8559	Research	10405
Structures and Rural Housing	6821	Distribution, etc.	8561	Statistics	10432
Animal Shelters and Service		Grading, etc.	8588		
Buildings	6829	Packing and Packaging	8612	U. S. D. A. Publications	p. 226
Farmhouses and Farmsteads		Prices, etc.	8621	State Agr. Expt. Sta. Publications	
	6868	Processing and Storage	8628		p. 234
Greenhouses and Plant Service		Statistics	8669	State Agr. Ext. Serv. Publications	
Buildings	6887	Oils and Oilseeds	8677		p. 239
Materials and Methods	6891	Poultry and Poultry Products	8797	Food and Agr. Organ. of the U. N.	
Storage Structures	6892	Rubber and Rubber Substitutes			p. 241
			8902	AUTHOR INDEX	p. 243

## CORRECTION

In the Oct. 1950 issue, p. 172, publications of the Missouri Agricultural Experiment Station were incorrectly listed under Montana Agricultural Experiment Station.

The printing of this publication has been approved by the Director of the Bureau of the Budget. (Jan. 11, 1950)



## PLANT SCIENCE

## GENERAL

- 1 ANDERSON, E. Naturalizing flowers at Gray Summit Arboretum. *Parks & Recreation* 33:345-346. Oct.1950. 98.8 P23 Missouri.
- 2 ANGELY, J. Dictionary of botanical terms. (In Portuguese.) *Rev. da Flora Med.* 16:420-448,469-496. Oct.1949. 71.8 R32
- 3 BASTIN, E. W. The ginkgo: strange survivor. *Nature Mag.* 43:410. Oct.1950. 409.6 N214
- 4 BERGHEN, C. VAN DEN. La cartographie phytosociologique. *Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech.* 1950(4): 243-247. Aug.1950. 330.9 In7C
- 5 BONFIGLIOLI, H., and ACUNA, C. Acción inhibidora "in vitro" de un *Penicillium chrysogenum* sobre diversos *Mycobacterium*. *Argentina. Inst. Bact. Malbrán. Rev.* (1945-48)13:334-340. 1950. 448.3 Ar3
- 6 BOUREAU, E. Etude paléoxylologique du Sahara. VII. *Dadoxylon* (*Araucarioxylon*) *chevalieri* n. sp., bois fossile du continental intercalaire de Reggan (Sahara Occidental). *Paris Mus. Natl. d'Hist. Nat. B. (ser.2)*22: 157-162. Jan.1950. 410.9 P213
- 7 CHOUARD, P. Caractères généraux des Pyrénées centrales, entre Gaves et Nestes; (relief, sol, climats, végétation, activités humaines). *Soc. Bot. de France. B.* 96:7-16. 1949. 451 F84B
- 8 DAWSON, R. F., and ROBSON, H. H. Interaction of cystine and casein hydrolysate during the auto-claving of a microbiological assay medium. *Plant Physiol.* 25:550-554. Oct.1950. 450 P692
- 9 DAY, G. M. The stability of Latin names. *J. Forestry* 48:446. Sept.1950. 99.8 F768
- 10 DAYTON, W. A., comp. Glossary of botanical terms commonly used in range research. U. S. D. A. Misc. P. 110, rev., 41 p. June 1950. 1 Ag84M
- 11 DIJKSTRA, S. J. Carboniferous megaspores in Tertiary and Quaternary deposits of S. E. England. *Ann. & Mag. Nat. Hist. (ser.12)*3:865-877. Ref. Oct.1950. 410 An77
- 12 DOUGHTY, W. D. Save the sotol! *Nature Mag.* 43:469-470. Nov.1950. 409.6 N214 Dasyliirion.
- 13 DOUGLASS, A. E. A superior Sequoia ring record. II., A. D. 870-1209. *Tree-Ring B.* 16:24. Jan. 1950. 99.8 T713
- 14 DOVER, H. L. A peep from a jeep; notes and sketches of the June flora around Obergurgl, Austria. *Elect. Age* 5:340-341. Oct.1950. 335.8 EL223
- 15 DUTILLY, A., and LEPAGE, E. La traversée de l'Ungava en 1945. *Nat. Canad.* 77:136-181. May/June 1950. 410 N216 Includes vegetation.
- 16 EDLIN, H. L. The Gaelic alphabet of tree names. *Scot. Forestry* 4:72-75. July 1950. 99.8 Sch3
- 17 EMBERGER, L. Les préphanérogames. *Ann. des Sci. Nat. Bot. et Biol. Vég. (ser.11,1949)*10:131-144. June 1950. 450 An75
- 18 FELDMANN, U. Natural reproduction of exotic plants in Palestine. (Sum.) *Palestine J. Bot. Rehovot Ser.* 7:186. Dec.1950. 450 P172 Remarks on Dr. H. R. Oppenheimer's article.
- 19 FERNANDES, A. The conflict between Brotero and Monteiro da Rocha. (In Portuguese.) *Soc. Brotteriana. Anu.* 15:35-54. 1950. 451 C66A Early history of Botanic Garden of the University of Coimbra.
- 20 FERREIRA FILHO, O. J. Preservation of plants for school museums. (In Portuguese.) *Selec. Agr.* 5(52):65-66. Aug.1950. 9.2 Se4
- 21 FLACCOMIO, E. Honor to a colossus among living plants which this year completes its first hundred years in the Land of the Sun. (In Italian.) *Riv. Ital. Essenze, Profumi, Piante Off., Oili Veg., Saponi* 32:426. Sept.15,1950. 308.8 R52 A specimen of *Ficus magnoliifolia* in the Palermo Botanical Garden.
- 22 FOSS, H. Protection against night frost. (In Norwegian.) *Norsk Landbr.* 16:326-329. Sept.1,1950. 11 N8122
- 23 FOX, H. M. A trip into the mountains of Colorado. *N. Y. Bot. Gard. J.* 51:251-255. Oct.1950. 451 N84J
- 24 FRIES, R. E. A short history of botany in Sweden. *Uppsala, Almqvist & Wiksell,1950.* 162 p. 452.6 F91
- 25 FULLER, A. T., and HORTON, J. M. Marcescin, an antibiotic substance from *Serratia marcescens*. *J. Gen. Microbiol.* 4:417-433. Ref. Sept.1950. 448.3 J823
- 26 GAMS, H. Die IX. Internationale Pflanzengeographische Exkursion durch Irland im Juli 1949. *Phyton* 2:8-10. July 3,1950. 450 P565
- 27 GENTILLI, J. North-western Walkabout. *Westralian Farmers Co-op Gaz.* 19:49-53. (Concl.) July 1950. 280.28 W522 Includes discussion of vegetation.
- 28 GERICKE, S. "Strahlende pflanzen"; radioaktivität als forschungsmittel in der botanik. *Umschau* 50:568-569. Sept.15,1950. 47.4 Um7
- 29 GOVORUKHIN, V. S. Soviet science of the tundra. (In Russian.) *Moskov. Obshch. Isp. Prirody. Otd. Biol. B. (n.s.)*55:22-36. 1950. 511 M85 Includes vegetation.
- 30 GT. BRIT. OVERSEAS FOOD CORPORATION. Annual report No. 1, 1947-48. London,1949. 56 p. Ref. 389.9 G7972 Crop production research.
- 31 GREGORY, P. H. Deposition of air-borne particles on trap surfaces. *Nature [London]* 166:487. Sept.16,1950. 472 N21 Pollen, etc.
- 32 GRIFFIN, C. D. A pollen profile from Reed Bog, Randolph County, Indiana. *Butler U. Bot. Studies* 9: 131-139. Ref. May 1950. 451 B97
- 33 GRÖNTVED, J. Danish botanical literature in 1944, 1945, 1946 and 1947. (In Danish.) *Bot. Tidsskr.* 48:254-293. 1949. 450 B654
- 34 GUENNEL, G. K. History of forests in the Glacial Lake Chicago Area. *Butler U. Bot. Studies* 9:140-158. Ref. May 1950. 451 B97
- 35 GUIDA, V. O., and AMARAL, J. F. DO. Technique for the preservation of fungi in sterile sand. (In Portuguese.) *Inst. Biol. São Paulo. Arq. (1949/50)*19:203-206. Ref. 1950. 442.9 Sa6 English summary.
- 36 GUINET, C., and TURMEL, J. M. Observations sur la végétation du Pic de Midi de Bigorre. *Soc. Bot. de France. B.* 96:149-155. 1949. 451 F84B
- 37 GUINET, C., and TURMEL, J. M. Le Pic de Midi de Bigorre. Son intérêt biologique. *Soc. Bot. de France. B.* 96:54-56. 1949. 451 F84B
- 38 HEATLEY, N. G. A versatile fermentation sampling arrangement. *J. Gen. Microbiol.* 4:410-412. Sept.1950. 448.3 J823
- 39 HERTER, G. Revision de los dibujos de plantas del Padre Larrañaga. *Rev. Sudamer. de Bot.* 8: 87-91. Nov.1949. 450 R3242
- 40 HOLAS, B. Un philtre d'amour guerze. *Notes Africaines* 47:75-76. July 1950. 475 N84 *Biophytum apodiscias*.
- 41 HOLLAND, L. J. Why we use scientific plant names. *Green Thumb* 7(10):10-11. Oct.1950. 80 G82
- 42 HUBBARD, M. The beauty of tree boles. *Gard. Illus.* 67:275-277. Sept./Oct.1950. 80 G169
- 43 INTERNATIONAL CONGRESS OF BOTANY, 7, STOCKHOLM, 1950. Excursion guides. Uppsala,1950. 24 pts. 451 In83E
- 44 JACQUES-FELIX, H. Les flores d'Afrique tropicale. II. Contributions britanniques. *Agron. Trop.* 5: 412-413. Ref. July/Aug.1950. 26 Ag86
- 45 JONASSEN, H. Recent pollen sedimentation and Jutland heath diagrams. *Dansk Bot. Arkiv* 13(7), 168 p. 1950. 450 D23
- 46 JONES, W. Preparation of permanent mounts of fungus colonies on cellophane. (Abs.) *Phytopathology* 40:967. Oct.1950. 464.8 P56
- 47 JOVET, P., and TURMEL, J. M. Notes géobotaniques sur le Pays Basque français. *Paris Mus. Natl. d'Hist. Nat. B. (ser.2)*22:266-275. Ref. Mar.1950. 410.9 P213
- 48 KORDÉ, K. B. Dasycladaceae from the Cambrian period of Tuva. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:371-374. July 11,1950. 511 P444A



- 49 KOYAMA, Y., and others. A new antibiotic 'Colistin' produced by spore-forming soil bacteria. (In Japanese.) J. Antibiotics 3:457-458. June 1950. 396.8 J824
- A. Kurosasa, A. Tsuchiya, and K. Takakuta, joint authors.
- 50 LAUTENSCHLAGER, E. Praktische mikroskopie. 1. Allgemein-botanische Grundlagen. Basel, Verlag für Wissenschaft, Technik und Industrie, 1950. 104 p. (Gloor's Kleine Werkbibliothek) 440 L37
- 51 LAVRENKO, E. M. Cartography and regional distribution of vegetative cover of U.S.S.R. (In Russian.) Moskov. Obshch. Isp. Prirody. Otd. Biol. B. (n.s.) 55:59-61. 1950. 511 M85
- 52 LAVRENKO, E. M. Soviet geobotany in the service of the socialist national economy of U.S.S.R. in the Stalinite Era. (In Russian.) Moskov. Obshch. Isp. Prirody. Otd. Biol. B. (n.s.) 55:3-4. 1950. 511 M85
- 53 LE TESTU, G. Réflexions sur la récolte des échantillons botaniques en Afrique Equatoriale. Soc. Bot. de France. B. 97:105-109. Apr./June 1950. 451 F84B
- 54 LILLARD, R. G. Indian Canyon, trailway of the past and future. Yosemite Nat. Notes 29:73-75. Aug. 1950. 409.6 Y8
- Includes vegetation.
- 55 LYLE, J. A. History of botany and plant pathology at Alabama Polytechnic Institute. Plant Dis. Rptr. Sup. 195:501-503. Sept. 15, 1950. 1.9 P69P
- 56 MCCONNELL, E. Lilies in religion. Org. Gard. 17(4):28-29. Oct. 1950. 56.8 Or3
- 57 MAMAY, S. H. Some American carboniferous fern fructifications. Mo. Bot. Gard. Ann. 37:409-476. Ref. Sept. 1950. 451 M69
- 58 MIKKELSEN, V. M. Praestø fjord; the development of the post-glacial vegetation and a contribution to the history of the Baltic Sea. Dansk Bot. Arkiv 13(5), 171 p. 1949. 450 D23
- 59 MORLEY, T. Staining of plant materials cleared in NaOH. Stain Technol. 24:231-235. Ref. Oct. 1949. 442.8 St1
- 60 NEGRONI, P., and FISCHER, I. Estudios sobre la penicilina. IV-V. Argentina. Inst. Bact. Malbrán. Rev. (1945-48) 13:16-30. Ref. 1950. 448.3 Ar3
- IV, Sobre la obtención de cepas de *Penicillium notatum* con buena actividad penicilínica y su relación con la constitución genética, p. 16-23; V, Influencia de la acción enzimática sobre la producción de penicilina, p. 24-30.
- 61 NEUBACHER, F. Schutz der alpenflora! Berufsgärtner 3(8):6-7. Aug. 1950. 80 B463
- 62 OGATA, K. Studies on Actinomyces and its antibiotics. IV. Production of chloromycetin. I. (In Japanese.) J. Antibiotics 3:512-516. Ref. July 1950. 396.8 J824
- English summary.
- 63 OSVALD, H. An outline of the history of applied botany in Sweden. In Fries, R. E. A short history of botany in Sweden, p. 132-156. Uppsala, Almqvist & Wiksell, 1950. 452.6 F91
- 64 PALMER, C. M. Phycologists of India. Butler U. Bot. Studies 9:235-238. May 1950. 451 B97
- 65 PAPA ZIAN, H. P. A convenient method of growing fruiting bodies of a bracket fungus [Schizophyllum]. Bot. Gaz. 112:138. Sept. 1950. 450 B652
- 66 PAPA ZIAN, H. P. A method of isolating the four spores from a single basidium in *Schizophyllum commune*. Bot. Gaz. 112:139-140. Sept. 1950. 450 B652
- 67 ROGERS, C. M. The vegetation of the Mesa de Maya region of Colorado, New Mexico, and Oklahoma. Mich. U. Microfilm Abs. 10(3):16-17. 1950. 241.8 M58
- 68 SÃO PAULO. SECRETARIA DE AGRICULTURA INSTITUTO DE BOTANICA. Relatório anual, por F. C. Hoehne. São Paulo, 1949. 102 p. 451 Sa62
- 69 SAVORY, H. J. Some common water plants of Nigeria. Nigeria 34:215-219. 1950. 110 N56
- 70 SCHULMAN, E. A dated beam from Dinosaur National Monument. Tree-Ring B. 16:18-19. Jan. 1950. 99.8 T713
- 71 SCHULMAN, E. Miscellaneous ring records. I-II. Tree-Ring B. 16:21-23. Jan. 1950. 99.8 T713
- 72 SIDORUK, I. S. Activity of the Kuibyshev Division of the All-Union Botanical Society. (In Russian.) Bot. Zhur. 35:111-112. Jan./Feb. 1950. 451 R923
- 73 SIMONOV, I. N. Michurinite agrobiology and the higher agricultural schools. (In Russian.) Agrobiologiya 1950(3):21-25. May/June 1950. 20 Ag822
- 74 SMITH, A. C. The Seventh International Botanical Congress. Science 112:443-445. Oct. 13, 1950. 470 Sci2
- Includes nomenclature.
- 75 SMITT, A. Exotic species of trees in West Norway. (In Norwegian.) Tidsskr. f. Skogbruk 58:115-122. June 1950. 99.8 T432
- 76 STONE, K. H. Aerial photographic interpretation of natural vegetation in the Anchorage area, Alaska. Surveying & Mapping 10:199-207. July/Sept. 1950. 325.8 Am3
- 77 TERTIAR, A. Als der garten Eden noch grünte. Orion 5:648-653. Aug. 1950. 474 Or4
- 78 TSUKAMURA, M. Studies on the antibiotic substances produced by spore-forming bacteria. III. Report. Neocidin: a new antibiotic substance produced by a number of the *Bacillus subtilis*-group. (In Japanese.) J. Antibiotics 3:499-511. Ref. July 1950. 396.8 J824
- English summary
- 79 VAGO, S. C. Ursachen und resultate der einführung des tryptaflavins in die bakterienpolkörper-differenzierung. Osterr. Bot. Z. 97:180-187. Ref. 1950. 450 Os7
- 80 VASIL'EV, V. M. Zashchita derev'ev pri planirovochnykh i obshchestroitel'nykh rabotakh [Protection of trees in planning and construction of public works]. Moskva, Ministerstvo Kommunal'nogo Khozaystva RSFSR, 1950. 32 p. 97.7 V44
- 81 VIENNA. BUNDESANSTALT FÜR PFLANZENBAU UND SAMENPRÜFUNG. Jahresbericht, 1949. Vienna, 1950. 191 p. 105.9 V675
- Issued as Sonderheft 1, July 1950, to Bodenkultur.
- 82 VONDERBANK, H. Antibiotika aus flechten und algen. Umschau 50:478-479. Aug. 1, 1950. 474 Um7
- 83 WALKOM, A. B. Gondwanaland: a problem of palaeogeography. Austral. & New Zeal. Assoc. Advn. Sci. Rpt. 27:1-13. Ref. 1949. 514 Au73
- Includes flora.
- 84 WATARI, S. On a fossil wood of *Cinnamomum camphora* Nees et Eberm. (In Japanese.) J. Jap. Bot. 25: 103-105. June 1950. 450 J8223
- 85 WOODS, J. E. Plant monoliths, a new visual aid. Crops & Soils 3:16-17, 22. Oct. 1950. 6 W55
- Preserving plant specimens and step-by-step procedure for preparing plant monoliths.

## SYSTEMATIC AND GEOGRAPHIC BOTANY

## General

- 86 ALMEIDA, J. L. F. DE. Flora of National Teachers Forest [Mata Nacional das Mestras]; aids to studying it. (In Portuguese.) Soc. Broteriana. B. (ser. 2) 23:89-104. 1949. 451 C66
- 87 CHOUARD, P. Les éléments géobotaniques constituant la flore du Massif de Néouvielle et des vallées qui l'encadrent. Soc. Bot. de France. B. 96:84-121. 1949. 451 F84B
- 88 FERNANDES, A., and FERNANDES, R. Botanicalizing in the dominions of the Fundação da Casa de Bragança. III. (In Portuguese.) Soc. Broteriana. Anu. 15: 7-34. 1949. 451 C66A
- 89 FERNANDES, R. Notes on the flora of Portugal. I. (In Portuguese.) Soc. Broteriana. B. (ser. 2) 23: 119-157. 1949. 451 C66
- 90 FUJITA, Y. Classification by the combination of morphology and physiology and the definition of species. (In Japanese.) J. Jap. Bot. 25:95-96. May 1950. 450 J8223
- 91 GAUSSEN, H., and LEREDDE, C. Les endemismes pyrénéo-cantabriques dans la région centrale des Pyrénées. Soc. Bot. de France. B. 96:57-83. 1949. 451 F84B
- 92 GOOD, R. Madagascar and New Caledonia, a problem in plant geography. Blumea 6:470-479. Ref. Apr. 3, 1950. 450 B62
- 93 GORDON, H. D. The problem of sub-antarctic plant distribution. Austral. & New Zeal. Assoc. Advn. Sci. Rpt. 27:142-149. Ref. 1949. 514 Au73
- 94 GUINEA LOPEZ, E. Vizcaya y su paisaje vegetal (Geobotánica vizcaína). Bilbao, 1949. 432 p. 459.9 G94



- 95 JANCHEN, E. Beiträge zur benennung, verbreitung und anordnung der farn- und blüthenpflanzen Österreichs, I. Phytion 2:57-76. July 3, 1950. 450 P565
- 96 LAMERSON, V. Coastal plain flora in Indiana botanical areas. Butler U. Bot. Studies 9:188-196. Ref. May 1950. 451 B97
- 97 MASSEY, A. B. Botany. In Virginia Academy of Science. James River Project Committee. The James River Basin, p.63-90. Ref. Richmond, 1950. 138 V812
- 98 MATHON, C. C. Seconde addition à la suite au catalogue de la flore des Basses-Alpes, particulièrement sur la rive droite de la Durance. Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22:287-290. Mar.1950. 410.9 P213
- 99 MERRILL, E. D. A brief survey of the present status of Bornean botany. Webbia 7:309-324. 1950. 450 W38
- 100 PARKER, K. F. University herbarium helps identify plants. Prog. Agr. Ariz. 2(3):6. Oct./Dec.1950. 6 P9452
- 101 PICHI-SERMOLLI, R. Taxonomy and nomenclature of some Abyssinian plants. (In Italian.) Webbia 7:325-351. 1950. 450 W38  
English summary.
- 102 PRAEGER, R. L. Natural history of Ireland; a sketch of its flora & fauna. London, Collins, 1950. 350 p. 409 P88N
- 103 SAPPA, F., and PIOVANO, P. G. Pesio Valley and its vegetation (Maritime Alps); the flora. (In Italian.) Webbia 7:353-458. Ref. 1950. 450 W38  
English summary.
- 104 SCOGAN, H. J. The flora of Bic and the Gaspe Peninsula, Quebec. Canada. Natl. Mus. B. 115, 399 p. 1950. 517 Ot8
- 105 WHYTE, R. O. The phytogeographical zones of Palestine. Geog. Rev. 40:600-614. Oct.1950. 500 Am35G
- 106 WIDDER, F. Diagnoses stirpium novarum. I-III. Phytion 2:223-229. Ref. July 3, 1950. 450 P565  
Includes *Leontodon montaniformis* n. sp., and discussion of taxonomic terminology.
- 107 YUKI, Y. Flora of ins. Tobishima, prov. Ugo. (In Japanese.) J. Jap. Bot. 25:125-132. Ref. June 1950. 450 J8223
- 108 ZANGHERI, P. Flora and vegetation of the "ferrettizzati" red soils of the Preappennines of Romagna. (In Italian.) Webbia 7:1-307. Ref. 1950. 450 W38  
English summary.
- Spermatophytes
- 109 ALEXANDER, E. J., and MACDOUGALL, T. A new *Nyctocereus* from southern Mexico. Cactus & Succulent J. 22:131-133. Sept./Oct.1950. 451 C11  
*Nyctocereus chontalensis*.
- 110 ALLRED, B. W. Southwestern trees and shrubs; alligator juniper (*Juniperus pachyphloea*). Sheep Goat Raiser 31:24-25. Oct.1950. 45.8 Sh3
- 111 ALLRED, B. W. Southwestern trees and shrubs; huisache (*Acacia farnesiana*). Sheep & Goat Raiser 30(12):22-24. Sept.1950. 45.8 Sh3
- 112 AMMONS, N. Shrubs of West Virginia. W. Va. U. Herb. Contrib. 55, 127 p. Ref. June 1950. 451 W523
- 113 AUBREVILLE, A. Flore forestière soudano-guinéenne, A.O.F., Cameroun, A.E.F. Paris, Société d'Éditions Géographiques, Maritimes et Coloniales, 1950. 523 p. 460.47 AulF
- 114 AUBREVILLE, A., and PELLEGRIN, F. Nouveautés africaines. Notulae System. 14:56-62. Feb.1950. 452 L493  
Includes new species in: *Dialium*, *Albizzia*, *Parinari*, *Maerua*, *Byrsocarpus*, *Teclea*, *Fagara*, *Syzgium*, and *Eugenia*.
- 115 BACKEBERG, C. Nova genera et subgenera. Cactus & Succulent J. 22:153-154. Sept./Oct.1950. 451 C11
- 116 BACKER, C. A., BRINK, R. C. B. VAN DEN, JR., and STEENIS, C. G. G. J. VAN. Notes on the flora of Java. V-VI. Blumea 6:358-406. Apr.3, 1950. 450 B62  
Part VI, by R. C. B. van den Brink, Jr.
- 117 BALDWIN, J. T., JR., and SPEESE, B. M. *Aeglopsis chevalieri* in Liberia. Torrey Bot. Club B. 77: 368-371. Sept./Oct.1950. 451 T63B
- 118 BAWKHER, A. M. Botanical nomenclature of the cultivated oil bearing *Brassica* species (mustard, rape and colza). Co-op. & Mktg. Rev. 4:220-225. July 1950. 280.28 C78243
- 119 BEETLE, A. A. A sectional treatment for the North American species of *Agrostis*. Wyo. U. P. 15:29-36. July 15, 1950. 500 W99
- 120 BENOIST, R. Contribution à la connaissance de la flore de la Guyane Française. Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22:276-282. (Cont.) Mar.1950. 410.9 P213  
Gramineae, cont.  
Includes new species in *Panicum*.
- 121 BENOIST, R. Les "Crossandra" malgaches (*Acanthacées*). Notulae System. 14:1-4. Feb.1950. 452 L493
- 122 BERNIS, F. El genero *Armeria* Willd. en Portugal. Soc. Broteriana. B. (ser.2)23:225-263. 1949. 451 C66
- 123 BOUCHARD, J. Observations sur quelques dactyloides du genre *Saxifraga*. Soc. Bot. de France. B. 96:121-124. 1949. 451 F84B
- 124 BRAVO HOLLIS, H. Notas cactalogicas. Mex. Inst. de Biol. An. 21:23-24. 1950. 442.9 M57  
Cacti collected in Michoacán.
- 125 BROWN, J. R. Notes on *Haworthias*. Cactus & Succulent J. 22:140-141. Sept./Oct.1950. 451 C11
- 126 BUINING, A. F. H. *Gymnocalyctium vatterii* Buining spec. nov. (In Dutch.) Succulenta 1950:65-66. Sept./Oct.1950. 450 Su12
- 127 CAMUS, A. *Agrostis* et *Poecilostachys* nouveaux de Madagascar. Soc. Bot. de France. B. 97:80-81. Apr./June 1950. 451 F84B
- 128 CAMUS, A. *Arundinaria* et *Acroceras* de Madagascar. Soc. Bot. de France. B. 97:84-85. Apr./June 1950. 451 F48B
- 129 CAMUS, A. Sur deux Graminées de Madagascar. Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22:296-297. Mar.1950. 410.9 P213  
*Pennisetum pseudotriticoides*, *Brachiaria epacridifolia*.
- 130 CAVACO, A. Sur une espèce nouvelle de *Sarcolaena* (*Chlaenaceae*) et sur sa structure vasculaire foliaire. Soc. Bot. de France. B. 97:95-97. Apr./June 1950. 451 F84B
- 131 CAVACO, A. Une variété nouvelle du *Polygonum senegalense* Meisn. Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22:295. Mar.1950. 410.9 P213
- 132 CHALARD, A. DU. Complément à la connaissance du *Distephania involucrata* Gagnepain (*Saxifragaceae* d'Indo-Chine). Soc. Bot. de France. B. 97:85-86. Apr./June 1950. 451 F84B
- 133 CORRADI, R. *Podocarpaceae*, *Cupressaceae*, *Aponogetonaceae*, *Potamogetonaceae* and other families of phanerogams collected in Abyssinia by the Sagan-Omo Biological Mission. (In Italian.) Webbia 7:459-468. 1950. 450 W38  
English summary.
- 134 DILLEMANN, G. Remarques sur le *Phyteuma pyrenaicum*. Soc. Bot. de France. B. 96:127-129. 1949. 451 F84B
- 135 DUNCAN, W. H., VENARD, H., and McDOWELL, G. W. *Shortia galacifolia* from Georgia. Rhodora 52:229-232. Oct.1950. 450 R34
- 136 EPLING, C. Plants collected by Th. Herzog on his second Bolivian journey, 1910-1911. Blumea 6:335-357. Apr.3, 1950. 450 B62  
Labiatae.
- 137 ERIKSSON, K., OLSEN, S. E., and REENBERG, C. E. *Najas flexilis* (Willd.) Rostk. et Schmidt found in Denmark. (In Danish.) Bot. Tidsskr. 48:223-230. 1949. 450 B654
- 138 FERLAN, L. Learn to know the orchids of your own country. (In Portuguese.) Brotéria 19:97-106. Aug.1950. 410 B79C
- 139 FERNALD, M. L. *Galium hircanicum*: a problem in interpreting the international rules. Rhodora 52:222-224. Sept.1950. 450 R34
- 140 FERNALD, M. L. The North American variety of *Milium effusum*. Rhodora 52:218-222. Sept.1950. 450 R34
- 141 FERNALD, M. L. Our American forms of *Stellaria alsine*. Rhodora 52:250-251. Oct.1950. 450 R34



- 142 FERNALD, M. L. The seeming invalidity of some substitutes for the name *Habenaria straminea*. *Rhodora* 52:247-249. Oct. 1950. 450 R34
- 143 FRANCO, J. DO. A. Notes on nomenclature. (In Portuguese.) *Soc. Broteriana. B.* (ser.2)23:159-176. Ref. 1949. 451 C66  
Various tree species.
- 144 FRANCO, J. DO. A. *Pinus thunbergiana* et *Pinus clusiana* var. *corsicana*. *Inst. Super. de Agron. An.* (1948/49)16:129-132. 1949. 105.7 L682
- 145 GAGNEPAIN, F. Genres nouveaux, espèces nouvelles d'Indochine. II. *Notulae System.* 14:22-37. Feb. 1950. 452 L493  
New species in: *Alangium*, *Strychnos*, *Octosomatium* n.g., *Cryptanthella* n.g., *Dimerodiscus* n.g., *Tridynamia* n.g., *Erycibe* n.g., *Atrichodendron* n.g., *Cypocalyx* n.g., *Hadongia* n.g., *Kerrdora* n.g., *Arachnodes* n.g., *Heterocalyx* n.g., *Saxifragites* n.g., *Boehmeria*, *Streblus*, and *Gastrochilus*.
- 146 GAGNEPAIN, F. *Meliosma* (Sabiaceae): sa fleur. *Soc. Bot. de France. B.* 97:89-90. Apr./June 1950. 451 F84B
- 147 GUGLIA, O. Zur Orchideenflora des Neusiedler See-Gebietes. *Phyton* 2:153-156. Ref. July 3, 1950. 450 P565
- 148 GUILLAUMIN, A. Contribution à la flore de la Nouvelle-Calédonie. XCV. Plantes récoltées par M. Sarlin. (2 envoi). *Paris Mus. Natl. d'Hist. Nat. B.* (ser.2) 22:115-119. Jan. 1950. 410.9 P213  
Includes new species in *Chrysophyllum*.
- 149 HARA, H. On the identity of *Ophelia chinensis* Bunge. (In Japanese.) *J. Jap. Bot.* 25:85-89. May 1950. 450 J8223  
English summary.  
Includes *Swertia pseudochinensis* n. sp.
- 150 HAWKES, A. D. The major genera of cultivated orchids. V. *Amer. Orchid Soc. B.* 19:486-487. Sept. 1950. 80 Am329
- 151 HAWKES, A. D. Studies in Florida botany. 3. A new variety in *Epidendrum tampense* Lindley. *Lloydia* 13:163-164. June 1950. 442.8 L77
- 152 HERMANN, F. J. Three new Carices from Mexico and Guatemala. *Wash. Acad. Sci. J.* 40:282-285. Sept. 15, 1950. 500 W276J
- 153 HESLOP HARRISON, J. Notes on some Irish dactylorhizids. *Irish Nat. J.* 10:82-83. July 1950. 410 Ir42
- 154 HIBON, E. Sur un *Pandanus* cultivé en Océanie Française. *Pandanus tectorius* var. *laevis*. *Rev. Agr. de l'île de la Réunion* (n.s.)50:96-100. May/June 1950. 25 R32
- 155 HISAUCHI, K. A note on *Solanum aculeatissimum*. (In Japanese.) *J. Jap. Bot.* 25:112. June 1950. 450 J8223
- 156 JACOBSEN, H. The succulent spurges (Euphorbiaceae succulentorum): a classification according to morphological characteristics. *Cactus & Succulent J.* 22:142-152. Sept./Oct. 1950. 451 C11
- 157 JAMES, L. E. An anatomical, cytological, and taxonomic study of the subgenus *Hesperastragalus* within the genus *Astragalus* (Leguminosae). *Stanford U. Abs. Diss.* (ser.8)35:81-82. Nov. 30, 1949. 241.8 St2
- 158 JANCHEN, E. Die herkunft der Angiospermenblüte und die systematische stellung der Apetalen. *Österr. Bot. Z.* 97:129-167. Ref. 1950. 450 Os7
- 159 JANSSENIUS, H. H. The variability of the wood-anatomy in large and small genera. *Blumea* 6:462-464. Apr. 3, 1950. 450 B62
- 160 JANSSENIUS, H. H. Wood-anatomy and relationship; taxonomic notes in connection with the key to the Javanese woods. *Blumea* 6:407-461. Apr. 3, 1950. 450 B62
- 161 KELLER, C. O. The genus *Liatris* in Indiana. *Butler U. Bot. Studies* 9:218-226. May 1950. 451 B97
- 162 KNOWLTON, C. H. *Rhododendron maximum* in New England. *Rhodora* 52:215-218. Sept. 1950. 450 R34
- 163 KOBUSKI, C. E. Studies in the Theaceae. XX. Notes on the South and Central American species of *Laplacea*. *Arnold Arboretum. J.* 31:405-429. Oct. 1950. 451 Ar6J
- 164 KOSTER, J. T., and PHILIPSON, W. R. Nomenclatural changes in *Spilanthes* and *Blainvillea* with remarks and a key to the species of *Spilanthes* in the Malay Archipelago. *Blumea* 6:349-354. Apr. 3, 1950. 450 B62
- 165 KUNZ, H. *Cerastium austroalpium* Kunz spec. nov., eine bislang verkannte sippe der südöstlichen kalkalpen. *Phyton* 2:98-103. July 3, 1950. 450 P565
- 166 LAMARQUE, and RAZAFIMAHERY. Le "tsambou" des Comores et de Madagascar (*Cycas thouarsii* R. Br.). *Agron. Trop.* 5:397-401. July/Aug. 1950. 26 Ag86
- 167 LAY, K. K. The American species of *Triumfetta* L. *Mo. Bot. Gard. Ann.* 37:315-395. Sept. 1950. 451 M69
- 168 LE GENISSEL-HOMOLLE. Une Rubiacée malgache nouvelle du genre "Otiophora." *Notulae System.* 14:74. Feb. 1950. 452 L493
- 169 LEPAGE, E. Variations mineures de quelques plantes du nord-est du Canada et de l'Alaska. *Nat. Canad.* 77:228-231. July/Aug. 1950. 410 N216
- 170 MACDOUGALL, T. *Heliocereus* travel notes. *Cactus & Succulent J.* 22:155-158. Sept./Oct. 1950. 451 C11
- 171 MAGUIRE, B. Studies in the Caryophyllaceae. IV. A synopsis of the North American species of the subfamily Silenoideae. *Rhodora* 52:233-245. Oct. 1950. 450 R34
- 172 MATHON, C. C. Le *Genista radiata* Scop. dans le Brescia et le Trentino (Italie du Nord). *Soc. Bot. de France. B.* 97:78-80. Apr./June 1950. 451 F84B
- 173 MEIKLE, R. D. *Gymnadenia conopsea* (L.) R.Br. in Ireland. *Irish Nat. J.* 10:72-73. July 1950. 410 Ir42
- 174 MIMEUR, G. Trois espèces nouvelles de Graminées d'Afrique tropicale. *Paris Mus. Natl. d'Hist. Nat. B.* (ser.2)22:127-129. Jan. 1950. 410.9 P213  
In *Sacciolepis*, *Chloris*, and *Andropogon*.
- 175 MISCELLANEA taxonomica. I. *Mo. Bot. Gard. Ann.* 37:397-408. Sept. 1950. 451 M69  
New species in *Sporobolus*, *Herreria*, *Vellozia*, *Pithecolobium*, *Cyathostegia*, *Cassia*, *Galactia*, *Rinorea*, *Spigelia*, *Mandevilla*, *Holalafia*, *Mayelea*, and *Marsdenia*. Described by G. B. van Schaak, Woodson and Schery.
- 176 MOLDENKE, H. N. Novelities in the Eriocaulaceae and Verbenaceae. II. *Torrey Bot. Club. B.* 77:389-405. Sept./Oct. 1950. 451 T63B  
Includes new species in *Eriocaulon*, *Leiothrix*, *Syngonanthus*, *Callicarpa*, *Clerodendron*, *Holmskioldia*, *Premna*, and *Verbena*.
- 177 MONOD, T. Pour l'étude des Graminées ouest-africaines. *Notes Africaines* 47:68. July 1950. 475 N84
- 178 MORAN, R. Notes on *Hasseanthus*. I. *Desert Plant Life* 22:77-82. Sept. 1950. 450 D45
- 179 MÖSCHL, W. *Cerastium semidecandrum* L'Inne, sensu latiore. *Soc. Broteriana. Mem.* 5, 123 p. Ref. 1949. 451 C66M
- 180 NAKAI, T. *Iconographia plantarum Asiae Orientalis*, v. 4, No. 4, p. 411-449. Tokyo, Shunyodo Shoten, 1950. 460.1 N14  
Cherries.
- 181 NEVES, B. The heaths of Madeira. (In Portuguese.) *Frutas da Madeira* 10:28-29. June 1950. 286.83 F9422  
Erica spp.
- 182 NORONHA, H. DE. The Lemonbottlebrush (*Callistemon lanceolata* R. Brown). (In Portuguese.) *Rev. da Flora Med.* 16:411-419. Ref. Oct. 1949. 71.8 R32
- 183 OOSTSTROOM, S. J. VAN. The Convolvulaceae of Malaysia. VI. *Blumea* 6:337-348. Apr. 3, 1950. 450 B62  
Includes new species in *Argyreia*.
- 184 OUDEN, P. DEN. *Coniferen*, *Ephedra* en *Ginkgo* [Coniferae, Ephedra and Ginkgo]. Wageningen, Veëman & Zonen, 1949. 444 p. 452.3 Ou2
- 185 PELLEGRIN, F. *Annonacées* nouvelles africaines. *Notulae System.* 14:75-76. Feb. 1950. 452 L493  
New species in: *Monanthotaxis* and *Piptostigma*.
- 186 PERRIER DE LA BATHIE, H. Les "Basella" de Madagascar. *Notulae System.* 14:53-56. Feb. 1950. 452 L493
- 187 PERRIER DE LA BATHIE, H. Une espèce nouvelle de "Laurembergia" de Madagascar. *Notulae System.* 14:76. Feb. 1950. 452 L493
- 188 PERRIER DE LA BATHIE, H. Plantes nouvelles, rares ou critiques des serres du Muséum. *Paris Mus. Natl. d'Hist. Nat. B.* (ser.2)22:114. Jan. 1950. 410.9 P213  
New species in *Angraecum*.



- 189 PERRIER DE LA BATHIE, H. Les "Polycarpea" de Madagascar. *Notulae System.* 14:51-53. Feb. 1950. 452 L493
- 190 PERRIER DE LA BATHIE, H. Les Zygophyllacées de Madagascar et des Comores. *Paris Mus. Natl. d'Hist. Nat. B.* (ser.2)22:283-286. Mar.1950. 410.9 P213
- 191 PERRY, L. M. Notes on some Myrtaceae of Fiji. *Arnold Arboretum. J.* 31:350-371. Oct.1950. 451 Ar6J  
Includes new species in *Syzygium*.
- 192 PICHON, M. Classification des Apocynacées: XII, les "Parsonsia" et les "Artia" de l'Herbier du Muséum. *Notulae System.* 14:4-21. Ref. Feb.1950. 452 L493
- 193 PORTÈRES, R. Naturalisation du *Chrysopogon aciculatus* Trinius à la Côte d'Ivoire. *Soc. Bot. de France. B.* 97:101-102. Apr./June 1950. 451 F84B
- 194 RAYMOND, M. Histoire et distribution de *Carex williamsii* Britton. *Nat. Canad.* 77:222-227. Ref. July/Aug.1950. 410 N216
- 195 RECHINGER, K. H., JR. Die ausdauernden iranischen arten von *Erigeron sectio Conyzastrum* Boissier (Rechingeri iter *iranicum secundum*.—no. 10). *Phyton* 2:124-133. Ref. July 3,1950. 450 P565
- 196 RICKETT, H. W. Cornus in Mexico, with notes on the evolution of the genus. *Mex. Inst. de Biol. An.* 21: 83-94. 1950. 442.9 M57
- 197 SANDVIG, E. D. Our vanishing bunchgrass [*Festuca thurberi*]. *Green Thumb* 7(11):21-23. Nov.1950. 80 G82
- 198 SATO, M. M. Who is the first collector of *Arenaria merckiioides* Maxim.? (In Japanese.) *J. Jap. Bot.* 25:112. June 1950. 450 J8223
- 199 STANFORD, K. C. Plant-collecting in South Africa. *My Gard.* 41:393-398. Oct.1950. 80 M995
- 200 STELFOX, A. W. Goldilocks (*Ranunculus auricomus*) in Co. Kerry. *Irish Nat. J.* 10:80-81. July 1950. 410 Ir42
- 201 SVENTENIUS, E. R. S. *Specilegium canariense* Spain. *Inst. Nac. de Invest. Agron. B.* 10(22):1-8. June 1950. 105.6 Sp14  
New species in: *Senecio* and *Centaurea*.
- 202 TAGAWA, M. Fern miscellany. 3. (In Japanese.) *J. Jap. Bot.* 25:113-116. Ref. June 1950. 450 J8223
- 203 TARDIEU-BLOT. Celastracées nouvelles et litigieuses d'Indochine. *Notulae System.* 14:43-49. Feb. 1950. 452 L493  
Includes new species in: *Celastrus* and *Microtropis*.
- 204 TOYAMA, S., ANDO, M., and KUROSE, S. Classification of paper-mulberry races through the "Spodogram methods." (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:116. Apr.25,1950. 99.8 N62
- 205 TURMEL, J. M. Evolution des Saniculoidées. II. Evolution du genre *Alepidea* (Ombellifères). *Paris Mus. Natl. d'Hist. Nat. B.* (ser.2)22:120-126. Jan.1950. 410.9 P213
- 206 TUYAMA, T. On some horticultural varieties of *Deutzia crenata* Sieb. et Zucc. (In Japanese.) *J. Jap. Bot.* 25:106. June 1950. 450 J8223
- 207 VATTIMO, I. DE. Notes on the Brazilian species of the genus *Ptilostyles* Guill. parasites of Leguminosae-Mimosoideae with the description of a new species. (*Rafflesiaceae, Apodanthae*). (In Portuguese.) *Rev. Bras. de Biol.* 10:189-198. Ref. July 1950. 442.8 R326
- 208 VIDAL, J. Remarques critiques sur "Prunus cochinchinensis" Lour., "Pyrus moiiorum" Chev. et "Pyrus loquho" Chev. *Notulae System.* 14:49-50. Ref. Feb.1950. 452 L493
- 209 VIGUIER, R. Leguminosae madagascarienses novae. *Notulae System.* 14:62-74. (Cont.) Feb.1950. 452 L493  
Includes new species in: *Tephrosia*, *Mundulea*, *Chadsia*, *Neodunnia*, and *Pongamiopsis*.
- 210 VRIES, D. M. DE. Survey of methods of botanical analysis of grassland. *Internatl. Grassland Cong. Rpt.* 5:143-153. 1949. 60.19 In85R  
Includes discussion by E. B. Levy and others.
- 211 WAGNON, H. K. Nomenclatural changes in *Bromus*. *Rhodora* 52:209-215. Ref. Sept.1950. 450 R34

212 WELLENSIEK, S. J., DOORENBOS, J., and HAAN, I. DE. Taxonomy, cytology and genetics of *Cyclamen*. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:608-619. Ref. Aug./Sept.1950. 86 N384  
English summary.

213 WILDMAN, H. E. The pollination of wild ginger, *Asarum canadense*. *Wild Flower* 26:48-52,54-57. Ref. July 1950. 451 W642

#### Pteridophytes

- 214 BERTON, A. L'Isoetes brochoni aux Laquets d'Orédon. *Soc. Bot. de France. B.* 96:129-130. 1949. 451 F84B
- 215 FERNALD, M. L. The validity of the generic name *Pteritis*. *Rhodora* 52:246-247. Oct.1950. 450 R34
- 216 HAWKES, A. D., and DEGENER, O. The upright *Psilotum*. *Amer. Fern J.* 40:207-210. July/Sept. 1950. 450 Am35
- 217 MCCOY, T. N. *Azolla caroliniana* in Kentucky. *Amer. Fern J.* 40:211-212. July/Sept.1950. 450 Am35
- 218 MCGREGOR, R. L. Two varieties of *Cystopteris fragilis*. *Amer. Fern J.* 40:201-207. July/Sept. 1950. 450 Am35
- 219 MORTON, C. V. Notes on the ferns of the eastern United States. *Amer. Fern J.* 40:213-225. (To be cont.) July/Sept.1950. 450 Am35
- 220 PROCTOR, G. R. *Ctenitis vellea*, a neglected West Indian Fern. *Amer. Fern J.* 40:226-228. July/Sept. 1950. 450 Am35
- 221 WEATHERBY, C. A. *Selaginella rupestris* in Greenland. *Amer. Fern J.* 40:229. July/Sept.1950. 450 Am35

#### Bryophytes

- 222 AGSTERIBBE, E., and GROENHUIJZEN, S. Bryophytes on the heath. (In Dutch.) *Buxbaumia* 4:8-12. Mar.1950. 450 B98
- 223 CUYNET, P., and JELENC, F. Bryophytes récoltés pendant la session (Gavarnie, Pic de Midi de Bigorre, Néouvielle). *Soc. Bot. de France. B.* 96:131-139. 451 F84B
- 224 HERTER, G. *Systema Lycopodiorum*. *Rev. Sudamer. de Bot.* 8:67-82,93-116. Nov.1949-Jan.1950. 450 R3242
- 225 JELENC, F. Le *Grimmia mairei* Card. et Copp. *Soc. Bot. de France. B.* 97:90-91. Apr./June 1950. 451 F84B
- 226 KUCYNIK, J. Deux hépatiques nouvelles pour le Québec: *Microlepidozia sylvatica* et *Cephalozia macrostachya*. *Assoc. Canad.-Franç. pour l'Avanc. des Sci.* 16:156-158. 1950. 517 M76
- 227 KUCYNIK, J. Mise au point sur deux muscinées québécoises: *Hygrohypnum smithii* et *Oncophorus virens* var. *serratus*. *Assoc. Canad.-Franç. pour l'Avanc. des Sci.* 16:154-156. 1950. 517 M76
- 228 MEIJER, W. On the value of bryology in the investigation of sub-fossil peat layers. (In Dutch.) *Buxbaumia* 4:13-15. Mar.1950. 450 B98
- 229 NANNENGA, E. Mass vegetation of *Riccardia sinuata* (Dicks.) Trev. in a spring pool at Renkum. (In Dutch.) *Buxbaumia* 4:5-8. Mar.1950. 450 B98
- 230 NOGUCHI, A. Notes on Japanese Musci. 10. (In Japanese.) *J. Jap. Bot.* 25:78-84. May 1950. 450 J8223

#### Algae

- 231 BØRGENSEN, F. Some marine algae from Mauritius. Additions to the parts previously published. II. *Danske Vidensk. Selsk. Biol. Meddel.* 18(11),44 p. 1950. 442.9 D23
- 232 BØRGENSEN, F. *Vaughantella*, a new genus of the Dictyotaceae. *Danske Vidensk. Selsk. Biol. Meddel.* 18(8),10 p. 1950. 442.9 D23
- 233 DAILY, F. K. *Nitella spanioclema* Groves & Bullock-Webster var. *nidifica*, nov. var., from Alabama. *Butler U. Bot. Studies* 9:270-272. May 1950. 451 B97
- 234 DAILY, F. K. *Tolypella prolifera* Leonh. in Indiana. *Butler U. Bot. Studies* 9:273-276. May 1950. 451 B97



235 FELDMANN, G. Sur quelques Céramiacées de Nouvelle-Zélande. Paris Mus. Natl. d'Hist. Nat. B. (ser. 2) 22:131-141, 307-314. Jan.-Mar. 1950. 410.9 P213  
Includes new species in Antithamnion, Ceramium, and Dasyphtlon n.g.

236 FOGED, N. Diatoms in the salt bog of Lange-mose in East Funen. Dansk Bot. Arkiv 13(6), 31 p. Ref. 1949. 450 D23

237 IMAHORI, K. Miscellaneous papers on the East Asiatic Charophyta. 2. (In Japanese.) J. Jap. Bot. 25:73-77. May 1950. 450 J8223

238 LUCAS, J. A. W. The algae transported on drifting objects and washed ashore on the Netherlands' Coast. Blumea 6:527-543. Ref. Apr. 3, 1950. 450 B62

239 LUND, S. Marine algae new to the Danish waters. (In Danish.) Bot. Tidsskr. 48:231-253. Ref. 1949. 450 B654  
English summary.

240 MITRA, A. K. Two new algae from Indian soils. Ann. Bot. [London] (n.s.) 14:457-464. Oct. 1950. 450 An7

Chloranomala palmelloides and Chlorogloea fritschii.

241 PILLSBURY, R. W. Natural anchoring of the red alga, Gracilaria confervoides (L.) Grev. on unstable bottom by association with an annelid worm. Canad. J. Res. Sect. C, Bot. Sci. 28:471-476. Ref. Oct. 1950. 470 C16C

242 SAMPAIO, J. New Desmidiaceae of the Portuguese flora. (In Portuguese.) Soc. Broteriana. B. (ser. 2) 23:105-117. 1949. 451 C66

243 VELDKAMP, H. The genus Polysiphonia in the Netherlands. Blumea 6:517-526. Apr. 3, 1950. 450 B62

244 WALLACE, J. H., and PATRICK, R. A consideration of Gomphonema parvulum Kütz. Butler U. Bot. Studies 9:227-234. May 1950. 451 B97

245 ZAUER, L. M. On the mobility of diatom, Eunotia lunaris (Ehr.), in connection with the problem of mobility of diatoms in general. (In Russian.) Akad. Nauk SSSR. Dok. 72:1131-1133. June 21, 1950. 511 P444A

#### Fungi (Including Lichens)

246 ARNAUD, G. Les boucles mycéliennes des Eumycètes. Paris. Acad. des Sci. Compt. Rend. 231: 549-550. Sept. 11, 1950. 505 P21

247 ASAHINA, Y. Lichenologische notizen (73-74). (In Japanese.) J. Jap. Bot. 25:65-68. May 1950. 450 J8223

248 BARKMAN, J. On the phylogenetics of liverworts. (In Dutch.) Buxbaumia 4:32-55. Ref. June-July 1950. 450 B98

249 BEER, Hexenringe [Tricholoma]. Gart.-Z. Illus. Flora 73:85. July 1950. 80 G191

250 BITANCOURT, A. A., and JENKINS, A. E. Studies in the Myrtiliales. I. Ten new species of Elsinioaceae discovered in Brazil. (In Portuguese.) Inst. Biol. São Paulo. Arq. (1949/50) 19:93-110. Ref. 1950. 442.9 Sa6

English summary.  
In Sphaceloma and Elsinio.

251 BLAGOVESHCHENSKII, V. V. Experiment in evaluating importance of forest types in [soil] moisture conservation by plant indicator method. (In Russian.) Lesn. Khoz. 3:72-74. Jan. 1950. 99.8 L562

252 CAIN, R. F. Studies of coprophilous Ascomycetes. I. Gelasinospora. Canad. J. Res. Sect. C, Bot. Sci. 28:566-576. Oct. 1950. 470 C16C

253 DAHL, E. Studies in the macrolichen flora of south west Greenland. Meddel. om Grønland 150(2), 176 p. Ref. 1950. 502 C792

254 DAVYDOV, P. N. Foreign guests. (In Russian.) Priroda 39(6):75-76. June 1950. 410 P933  
Discovery of fungus, Clathrus cancellatus Tournef. in hothouse of Altaiskaf Zonal'naia Plodovoi Agodnafa Opytnaia Stanfisa.

255 DENNIS, R. W. G. A revision of the British Hyaloscyphaceae with notes on related European species. Commonwealth Mycol. Inst. Mycol. Papers 32, 97 p. Ref. Dec. 28, 1949. 451 Im73M

256 DUGGAR, B. M. Isolation of culturable fungi from diverse habitats. N. Y. Acad. Sci. Trans. (ser. 2) 12: 168-171. Mar. 1950. 500 N484T

257 FLORSCHÜTZ, P. A. The genus Rhaphidorhynchium Besch. (In Dutch.) Buxbaumia 4:60-62. July 1950. 450 B98

258 HERRERA SUÁREZ, T. Un hongo interesante en la region de Cuicatlan, Oaxaca; Podaxis pistillaris (L.) Fries. Mex. Inst. de Biol. An. 21:17-21. Ref. 1950. 442.9 M57

259 HUGHES, S. J. Studies on micro-fungi. I. The genus Fusariella Saccardo. Commonwealth Mycol. Inst. Mycol. Papers 28, 11 p. Ref. June 29, 1949. 451 Im73M

260 JACKSON, H. S. Studies of Canadian Thelephoraceae. VI. The Peniophora rimicola group. Canad. J. Res. Sect. C, Bot. Sci. 28:525-534. Oct. 1950. 470 C16C

261 JAHN, H. Pilze rundum; ein taschenbuch zum bestimmen und nachschlagen von rund 500 einheimischen pilzarten. Hamburg, Claassen & Goverts, 1949. 355 p. 462 J19

262 KNAPP, A. Einige Hypogaeen aus Uruguay. Rev. Sudamer. de Bot. 8:61-66. Nov. 1949. 450 R3242  
Arachnion, Rhizopogon, Hydangium, Melanogaster, Hysterangium, and Hymenogaster.

263 KOBAYASI, Y. Recent advances in the classification of Phycomycetes. 2. (In Japanese.) J. Jap. Bot. 25: 90-94. Ref. May 1950. 450 J8223

264 LANGDON, R. F. N. Records of Queensland fungi. VI. Queensland. U. Dept. Biol. Papers 2(13):15-18. 1950. 442.9 Q33

265 LANGDON, R. F. N. Studies in Australian ergots. 1. Claviceps pusilla Cesati. Queensland. U. Dept. Biol. Papers 2(12):3-12. Ref. 1950. 442.9 Q33

266 LANGE, M. Some Agarics from Iceland. With notes on the Agaric flora on the volcano Hekla after the eruption of 1947. (In Danish.) Bot. Tidsskr. 48:294-298. 1949. 450 B654  
English summary.

267 LEREDDE, C., and DUPIAS, G. Urédinées récoltées pendant la session. Soc. Bot. de France. B. 96: 139-140. 1949. 451 F84B

268 MEZZETTI, A. Remarks on the morphology and taxonomy of Gyroceras celtidis (Biv.) Mont. and Ces. (In Italian.) Ann. della Sper. Agr. (n.s.) 4:857-867. 1950. 16 An76  
English summary.

269 MORI, K., and KAYO, T. Shiitake mushroom (Cortinellus shiitake). Tokyo, Yuto Sha, 1950. 131, 68 p. (Shokuhin Seizo Sōsho, 4) 91.7 M82

270 NEHIRA, T. Taxonomic studies of the genus Aspergillus. 6. Seven species Aspergilli in the Far East. (In Japanese.) J. Jap. Bot. 25:117-124. Ref. June 1950. 450 J8223

271 OHASHI, H. A study on Fomes applanatus Gillet. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32: 113. Apr. 25, 1950. 99.8 N62

272 OZENDA, P., and SEGUY, J. Lichens du massif de Néouvielle et de la vallée d'Esquierry. Soc. Bot. de France. B. 96:141-143. 1949. 451 F84B

273 PARKER-RHODES, A. F. Fungi, friends and foes. London, Elek, 1950. 136 p. (Sci. Action, 2) 462.25 P22

274 PERDECK, A. C. Revision of the Lycoperdaceae of the Netherlands. Blumea 6:480-516. Apr. 3, 1950. 450 B62

275 PETRAK, F. Index of fungi, 1936-1939; list of new species and varieties of fungi, new combinations and new names published 1936-1939. Kew, Surrey, Commonwealth Mycological Inst., 1950. 117 p. 462.3 P44

276 PRIDHAM, T. G., and RAPER, K. B. Ashbya gossypii—its significance in nature and in the laboratory. Mycologia 42:603-623. Ref. Sept./Oct. 1950. 450 M99

277 SOBELS, J. C. Nutrition de quelques Myxomycètes en cultures pures et associées et leurs propriétés antibiotiques. Antonie van Leeuwenhoek J. Microbiol. & Serol. 16:123-243. Ref. 1950. 448.8 N28A

278 SOLHEIM, W. G. Mycoflora Saximontanensis Exsiccata. V. Wyo. U. P. 15:1-27. July 15, 1950. 500 W99

279 VILMORIN, R. DE. Quelques lichens rares observés au cours de la session près de Lourdes, Ordon et Gavarnie. Soc. Bot. de France. B. 96:143-144. 1949. 451 F84B

#### PATHOLOGY

##### General

280 ALDINGER, G. Untersuchungen über wundheilung an unseren obstbäumen. Obstbau 69:121-122. Aug. 1, 1950. 80 Ob73



- 281 ALLISON, J. L., WELLS, H. D., and ANDES, J. O. Diseases reduce vetch seed crop in Tennessee in 1950. *Plant Dis. Rptr.* 34:321. Oct.15,1950. 1.9 P69P
- 282 ALVIM, P. DE T. Mineral deficiencies in sisal and "leaf base necrosis." (In Portuguese.) *Rev. Ceres* 8:222-232. Jan./June 1950. 9.2 C332  
English summary.
- 283 ARAULES, J. D'. Les maladies du blé. *Défense Agr. de la Beauce et du Perche* 47:331-332. Sept.2, 1950. 14 D36
- 284 ARK, P. A. Destructive diseases of orchids in California. *Orchid Digest* 14:174-178. Sept./Oct.1950. 80 Or172
- 285 ARTEM'EV, G. V. Bolting of cabbage seed plants. (In Russian.) *Sad i Ogorod* 1950(5):39-42. May 1950. 87 Sal  
Disease possibly transmitted by a cicada.
- 286 BAIN, F. M. Algunas observaciones sobre enfermedades del cocotero en Colombia. *Agro [El Valle]* 5(13):13-25. Jan./Aug.1950. 9.95 Ag83
- 287 BARNES, A. C. Impressions of the second International Congress of Crop Protection. *Brit. West Indies Sugar Assoc. Proc. Mtg. Sugar Technol.* 1949:114-116. 65.9 B775
- 288 BECHTOLD. Massnahmen gegen das ulmensterben. *Allg. Forstz.* 5:395. Sept.20,1950. 99.8 AL52
- 289 BRAUN, H. Resistenzzüchtung und biologische spezialisierung. *Naturwiss. Rundschau* 3:403-409. Sept. 1950. 474 N216
- 290 BRIAND, G. Les calamités viticoles. *Vrai Cognac* 28:344-345. Aug.1950. 95.8 V95  
Injuries by hail.
- 291 BRIERLEY, P. Disease investigations with ornamental crops in the United States Department of Agriculture. *Plant Dis. Rptr. Sup.* 195:437-444. Sept.15, 1950. 1.9 P69P
- 292 BOYCE, A. P. Orchard damage. *Mich. Conserv.* 19(6):9-10. Nov./Dec.1950. 279.9 M582  
By deer.
- 293 CABALLERO VÁSQUEZ, C. El problema sanitario de la papa. *Agr. Austral* 18:317-319. July 1950. 9.3 Ag842
- 294 CALDWELL, R. M., and DAVIS, J. J. Dying elms and oaks in Indiana. *Purdue U. Agr. Ext. L.* 307, 12 p. 1950. 275.29 In2L
- 295 CASTELLANI, E. On a root rot of vegetable marrows. (In Italian.) *Riv. della Ortoflorofruttic. Ital.* 34:134-136. July/Aug.1950. 86 R22  
English summary.
- 296 CECCARELLI, V. Revision of distinctive criteria for the injury from toxic gases and the absence of so-called "invisible injury." (In Italian.) *Not. sulle Mal. delle Piante* 10:1-19. Ref. May/June 1950. 464.8 N84
- 297 COLE, J. R., and MILLER, P. W. Investigations of nut diseases. *Plant Dis. Rptr. Sup.* 195:433-436. Ref. Sept.15,1950. 1.9 P69P
- 298 CONFERENCIA INTERAMERICANA DE SANIDAD VEGETAL, BUENOS AIRES, 1948. Resoluciones, actas, convenio. Buenos Aires, Ministerio de Agricultura, 1949. 119 p. 464.479 C76
- 299 COOKE, F. C., NATHANAEL, W. R. N., and LIYANAGE, D. V. The tapering disease of coconuts. II. *Ceylon Coconut Q.* 1(2):9-15. Apr./June 1950. 77.8 C33
- 300 COSTA, A. S., GRANT, T. J., and MOREIRA, S. A possible relationship between tristeza and the stem-pitting disease of grapefruit in Africa. *Calif. Citrog.* 35: 504,526-528. Oct.1950. 80 C125
- 301 CRANDALL, B. S. Cinchona root and collar rot in Peru and Bolivia. *U. S. D. A. C.* 855,16 p. Ref. July 1950. 1 Ag84C  
In Peru caused by *Phytophthora quininea*; in Bolivia due to physiological causes.
- 302 CUNNINGHAM, C. R. Tomato disease control. *Columbia? Mo.,* 1950. 4 p. 464.04 C91
- 303 DADANT, R. La défense des couches à semis des cultures maraichères contre la "fonte des semis" en Nouvelle-Calédonie. *Rev. Agr. de la Nouvelle-Calédonie* (n.s.)1(3/4):4-5. Mar./Apr.1950. 25 R322
- 304 DEITEMEYER, C. How much injury can Jack Frost do? *Nebr. Farmer* 92(18):12,14. Sept.16,1950. 6 N27  
Injury to corn.
- 305 DOOLITTLE, S. P. Vegetable disease investigations in the United States Department of Agriculture, 1885-1950. *Plant Dis. Rptr. Sup.* 195:398-412. Sept.15, 1950. 1.9 P69P
- 306 DUNEGAN, J. C. Field and laboratory research on the diseases of hardy fruit crops conducted by the United States Department of Agriculture 1885-1950. *Plant Dis. Rptr. Sup.* 195:420-428. Sept.15,1950. 1.9 P69P
- 307 EADIE, W. R. New techniques in control of orchard mice. *N. Y. (Cornell) Agr. Expt. Sta. B.* 856, 16 p. Aug.1950. 100 N48C
- 308 FERGUSON, I. A. C. Hybrid maize; preliminary disease resistance tests. *Rhodesia Agr. J.* 47:229-233. May/June 1950. 24 R34
- 309 FISCHER, W. "Feind spatz" ein neuer weg zu seiner bekämpfung. *Hannoversche Land- u. Forstwirtschaft.* Ztg. 103:359-360. Apr.8,1950. 18 H194  
Starlings.
- 310 FLIK, H. M., and SAALTINK, G. J. The most important diseases, pests and injuries of agricultural plants in 1949. (In Dutch.) *Netherlands. Landbouwvoorzorgsdienst. Maandbl.* 7:241-250. June 1950. 12 N383M
- 311 FRANDSEN, K. J. Breeding of resistant clovers in Scandinavia. *Internatl. Grassland Cong. Rpt.* 5: 106-114. 1949. 60.19 In85R  
Includes discussion.
- 312 FULTON, H. R. United States Department of Agriculture research on diseases of citrus and other subtropical fruits, 1886-1950. *Plant Dis. Rptr. Sup.* 195:429-432. Ref. Sept.15,1950. 1.9 P69P
- 313 GALET, P. Observations sur la résistance aux maladies des hybrides producteurs cultivés à l'Ecole de Montpellier. *Prog. Agr. et Vitic.* 1950:50-53. (Cont.) July 16/23,1950. 14 P94
- 314 GARCES O, C. La diseminación de los fitopatógenos. Colombia. *U. Nac. Facul. Nac. de Agron. Rev.* 11(37):1-18. Mar.1950. 9.4 C717
- 315 GERRITSEN, J. D. Injuries to the cherry leaves. What is the cause? (In Dutch.) *Betuws Tuinbouwbl.* 8(9):3-4. July 1,1950. 80 B464
- 316 GORLENKO, M. V. Most important results of the study of agricultural plant diseases in U.S.S.R. (In Russian.) *Moskov. Obshch. Isp. Prirody. Otd. Biol. B.* (n.s.)55:62-68. 1950. 511 M85
- 317 GREEN, D. E., and HEWLETT, M. A. Parsnip canker. *Gt. Brit. Min. Agr. Agriculture* 57:216-222. Aug.1950. 10 G79J
- 318 GROSJEAN, J. The chemotherapy of plant diseases. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13:673-687. Ref. Aug./Sept.1950. 86 N384  
English summary.
- 319 HANSELER, C. M. Plant pathology in New Jersey. *Plant Dis. Rptr. Sup.* 195:509-518. Sept.15,1950. 1.9 P69P
- 320 HARTLEY, C. The Division of Forest Pathology. *Plant Dis. Rptr. Sup.* 195:445-462. Ref. Sept.15, 1950. 1.9 P69P
- 321 HEWITT, W. B. Fanleaf of grapevines in California. (Abs.) *Phytopathology* 40:966. Oct.1950. 464.8 P56
- 322 JAMALAINEN, E. A. The Division for Plant Diseases of the Agricultural Experimentation Institute. (In Swedish.) *Forsk- och Försöksresultat* 2:39-40. July 31,1950. 20 F77  
Finland
- 323 JONG, P. DE. Future trends in plant protection. *Planters' Chron.* 45:339-342. July 1,1950. 22 P693  
Antibiotics.
- 324 JONG, P. DE. Some aspects of frost damage and crop protection. *Planters' Chron.* 45:376-378. July 15,1950. 22 P693
- 325 KERSTING. Folgekrankheiten der rüben gelbsucht. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A: 1143-1144. Aug.24,1950. 18 L2346
- 326 LACHAUD, J. Nutrition du blé et résistance aux maladies. *Agr. Charentais* 5(18):2. Sept.30,1950. 14 Ag825
- 327 LEYVRAZ, H. Vignobles grêlés. *Rev. Romande d'Agr., de Vitic. et d'Arbor.* 6:57-59. Aug.1950. 17 J82A
- 328 LIMASSET, P. Progrès réalisés dans l'étude des maladies des plantes depuis 1937. *Vitic. Arbor.* 95: 288-291. Oct.1949. 95.8 R322



- 329 LYLE, J. A. Diseases of small grains in Alabama. Plant Dis. Rptr. 34:318-320. Oct.15,1950. 1.9 P69P
- 330 LYON. CENTRE NATIONAL DE DEFENSE CONTRE LA GRÊLE. Rapport général sur la défense contre la grêle en France au cours de l'année 1948. Lyon, 1950. 69 p. 345 L99
- 331 MCCUBBIN, W. A. State quarantines on interstate movement. Plant Dis. Rptr. Sup. 195:483-500. Sept.15,1950. 1.9 P69P
- 332 MCQUILKIN, W. E. Effects of some growth regulators and dressings on the healing of tree wounds. J. Forestry 48:423-428. Sept.1950. 99.8 F768
- 333 MAGIE, R. O. A new approach; Gladiolus disease control. South. Florist & Nurseryman 63(28):9-10, 55. Oct.6,1950. 80 S886
- 334 MANSFELD, K. Beiträge zur erforschung der wissenschaftlichen grundlagen der sperrlingsbekämpfung. Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n.s.):4: 131-136,147-154. July-Aug.1950. 464.9 N11
- 335 MICHELbacher, A. E., and others. Field dusting with DDT to control thrips and spotted wilt in tomatoes. Plant Dis. Rptr. 34:307-309. Oct.15,1950. 1.9 P69P
- M. W. Gardner, W. W. Middlekauff, and A. J. Walz, joint authors.
- 336 MIDDLETON, J. T., KENDRICK, J. B., JR., and SCHWALM, H. W. Injury to herbaceous plants by smog or air pollution. Plant Dis. Rptr. 34:245-252. Sept.15,1950. 1.9 P69P
- 337 MILLER, P. R. The place of the Plant Disease Survey in plant pathological investigation. Plant Dis. Rptr. Sup. 195:471-482. Ref. Sept.15,1950. 1.9 P69P
- 338 NEWTON, W., and BOSHER, J. E. Package measles of Tulips. Sci. Agr. 30:402-404. Sept.1950. 7 Sci2
- 339 NICOLINI, J. C., and TRAVERSI, B. A. Observaciones sobre una nueva enfermedad del olivo en la Argentina. IDIA; Inform. de Invest. Agr. 3(32):8-11. Ref. Aug.1950. 9 Id3
- 340 NORRIS, R. E. Some observations on snail culture in several Lake County citrus groves. Citrus Indus. 31(10):10. Oct.1950. 80 C49
- 341 NUGENT, T. J. Diseases of lima beans. Va. Agr. Col. Ext. Veg. Growers News 5(2):2,4. Aug.1, 1950. 275.28 V52
- 342 OPPENHEIMER, H. R. Frost effects on vegetation in 1948/1949. Palestine J. Bot. Rehovot Ser. 7:36-40. Dec.1949. 450 P172
- 343 PAPERS presented at the New York Symposium on the Teaching of Plant Pathology. Plant Dis. Rptr. 34: 272-288. Sept.15,1950. 1.9 P69P
- Papers by H. W. Anderson, T. Sproston, G. W. Fischer, L. M. Massey, R. Nelson, J. C. Walker, H. C. Young, R. S. Kirby, and G. F. Weber.
- 344 PIRONE, P. P. First principles of plant disease control. Flower Grower 37(4):52-53,72-73. Apr. 1950. 80 M72
- 345 POEHLMAN, J. M., and KINGSOLVER, C. H. Disease reaction and agronomic qualities of oats selections from a Columbia x Victoria-Richland cross. Agron. J. 42:498-502. Ref. Oct.1950. 4 Am34P
- 346 PRATAS, J. Apple sprayers. (In Portuguese.) Seleg. Agr. 5(52):37-40. Aug.1950. 9.2 Se4
- Portugal.
- 347 PRESLEY, J. T. Diseases of cotton. In Advances in agronomy, v.2, p.26-32,76-77. Ref. New York, Acad. Press, 1950. 30 Ad9
- 348 REINKING, O. A. Preliminary report on the cadang-cadang disease and on soil deficiency troubles of coconuts in the Philippines. Plant Dis. Rptr. 34:300-304. Oct.15,1950. 1.9 P69P
- 349 ROSELLA, E. Court-noué à virus et court-noué à Phylloxera en Afrique du Nord. Vitic. Arbor. 95: 320-323. Nov.1949. 95.8 R322
- 350 SCHULTZ, E. S. Investigations on potato diseases by the Bureau of Plant Industry, Soils, and Agricultural Engineering, United States Department of Agriculture, 1910 to 1949. Plant Dis. Rptr. Sup. 195:413-419. Sept.15,1950. 1.9 P69P
- 351 SHERBAKOFF, C. D. Diseases of alfalfa. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 65(10):26,127. Oct.1950. 6 P945K
- 352 SHEVCHENKO, F. P. Increasing resistance of [wheat and barley] varieties to diseases. (In Russian.) Selek. i Semen. 17(8):35-38. Aug.1950. 61.9 Se5
- 353 SIPKES, C. J. Rodent injuries to woody plants. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 61:202-204. July 1950. 12 N282
- 354 SMITH, A. L. Cotton diseases. In Andrews, W. B., ed. Cotton production, marketing and utilization, p. 95-134. Ref. State College, Miss., 1950. 280.372 An22
- 355 SOUTHWICK, L. Disease and insect pests in the home orchard. Plants & Gard. 6:186-189. Autumn 1950. 450 P694
- 356 STOLZE. Ohne pflanzenschutz keine ernten. Landwirtsch. Weser-Ems 97:769. Sept.14,1950. 18 L2345
- Disease and pest control.
- 357 STOUT, G. L. New methods of plant disease control. Calif. Dept. Agr. B. 39:129-136. Ref. July/Sept. 1950. 2 C12M
- 358 TALBERT, T. J. Protect orchards against rabbits and mice. Mo. State Hort. Soc. Hort. News 1950: 5-6. Oct.1950. 81 M692H
- 359 TILL, M. R. E605 injury to Duchess pears. So. Austral. Dept. Agr. J. 53:542. July 1950. 23 So84
- 360 TRINCHIERI, G. On the international level: the plant sanitation program of the Rome conference of 1914 and today. (In Italian.) Gior. di Agr. 60:287. Sept.10,1950. 16 It1G
- 361 TROTTER, A. The Department and Institute of Vegetable Pathology of the Agrarian Faculty of Portici. (In Italian.) Osserv. Region. di Fitopatol. Ricerche. Osserv. e Divulg. Fitopatol. per la Campania ed il Mezzogiorno 11:29-48. 1949. 464.9 P832
- 362 ULLSTRUP, A. J. Diseases of Dent corn in Indiana. Ind. Agr. Expt. Sta. C. 359,27 p. June 1950. 100 In2P
- 363 VANDERWALLE, R. Observations et recherches effectuées à la Station de Phytopathologie de l'État pendant l'année 1947-1948. Gembloux. Inst. Agron. de l'État B. 17:181-200. Ref. 1948/1949. 105.1 G285
- 364 VERNEAU, R. Contribution to a knowledge of diseases of ornamental plants. (In Italian.) Osserv. Region. di Fitopatol. Ricerche. Osserv. e Divulg. Fitopatol. per la Campania ed il Mezzogiorno 11:1-18. Ref. 1949. 464.9 P832
- 365 WEISS, F. Index of plant diseases in the United States. II. Plant Dis. Surv. Spec. P. 1(2):219-381. Sept.15,1950. 1.965 M2Sp3
- 366 WESTCOTT, C. The plant doctor; the how, why and when of disease and insect control in your garden. Ed. 3, rev. Philadelphia, Lippincott, 1950. 231 p. 464.4 W52
- 367 WHITE, J. M. New Mexico A & M research laboratory enables science to start on trail of enemies of southwestern cotton growers. N. Mex. Stockman 15(10): 56-57. Oct.1950. 49 N462
- 368 WINGARD, S. A. Plant pathology: a major factor in agriculture. In Virginia Academy of Science. James River Project Committee. The James River Basin, p.91-106. Ref. Richmond, 1950. 138 V812
- 369 WRIGHT, A. It's smart to know about African violet troubles. Flower Grower 37(11):20-21,38-39. Nov.1950. 80 M72
- 370 YOUNG, V. H. A brief history of the development of research in plant pathology in Arkansas. Plant Dis. Rptr. Sup. 195:504-508. Sept.15,1950. 1.9 P69P
- 371 ZECHA, E. Pflanzenschutz als voraussetzung der erfolge im obstbau. Pflanzenarzt 3(8):1-2. Aug.1, 1950. 464.9 P482

#### Diseases Caused by Fungi

- 372 ANDES, J. O., and KEITT, G. W. Variability of Glomerella cingulata (Stonem.) S. & v. S. from apples. Phytopathology 40:915-925. Ref. Oct.1950. 464.8 P56
- 373 ANDREEVA, A. I. On Rekonstruktor State Farm. (In Russian.) Vinodel. i Vinograd. SSSR. 10(6): 35-36. June 1950. 95.8 V77
- Airplane spraying of grapes infested with mildew.
- 374 BAILEY, D. L. Studies in racial trends and constancy in Cladosporium fulvum Cooke. Canad. J. Res. Sect. C, Bot. Sci. 28:535-565. Ref. Oct.1950. 470 C16C
- 375 BARDIA BARDIA, R. El moteado de las manzanas y de las peras. Balearic Isl. Diputación Prov. B. de Agr. 71:8-10. Aug.1950. 15 B19
- Venturia inaequalis.



- 376 BARGER, F. New hope for the American elm; carolate, a new compound, may prove helpful in saving our elm trees from the ravages of Dutch elm disease. *Flower Grower* 37(5):29,53. May 1950. 80 M72
- 377 BERNAUX, P. Extension au Midi méditerranéen de trois maladies cryptogamiques. *Prog. Agr. et Vitic.* 1950:208-214. Ref. Oct.1/8,1950. 14 P94  
Coccomyces hiemalis on cherry, Piricularia oryzae on rice, and Oidium matthiolae on Matthiola incana annua.
- 378 BLATTNY, C. Contributions à la prognostique des facteurs nuisibles des plantes. I. Les années sèches et certaines maladies causées par les champignons. (In Czech.) *Ceskoslov. Akad. Zeměděl. Sborn.* 22:467-472. 1950. 19.5 C332C  
French summary.
- 379 BÖHNKE, Vorblütenspritzung, eine gute schorfbekämpfung. *Hannoversche Land- u. Forstwirt. Ztg.* 103:363. Apr.8,1950. 18 H194  
Fruit.
- 380 BREMER, H., and GOKSEL, N. How to control pear rust. (In Turkish.) *Mahsul Hekimi* 3:209-212. Sept.1950. 464.8 M27  
English summary.
- 381 BRETZ, T. W., and LONG, W. G. Oak wilt fungus [Chalara quercina] isolated from Chinese chestnut. *Plant Dis. Rptr.* 34:291. Oct.15,1950. 1.9 P69P
- 382 BRETZ, T. W. Report on oak wilt disease [Chalara quercina]. *Cross Tie B.* 31(9):32,34,36-37. Sept. 1950. 99.82 C87
- 383 BRIGGS, F. N., and HOLTON, C. S. Reaction of wheat varieties with known genes for resistance to races of bunt, Tilletia caries and T. foetida. *Agron. J.* 42:483-486. Ref. Oct.1950. 4 Am34P
- 384 BUSCH, L. V., and GILPATRICK, J. D. A possible quick method for testing the virulence of Streptomyces scabies (Thaxt.) Waksman & Henrici. *Plant Dis. Rptr.* 34:256. Sept.15,1950. 1.9 P69P
- 385 CALLBECK, L. C. Late blight of potatoes and its control. *Canada Dept. Agr. Farmers' B.* 162,15 p. June 1950. 7 C16F
- 386 CARRERA, C. J. M. Sarna del manzano. *Argentina. Min. de Agr. Almanaque* 25:350-352. 1950. 9 Ag874  
Caused by Fusicladium dendriticum.
- 387 CARRERA, C. J. M. "Torque" o "enrulamien-to del duraznero." *Argentina. Min. de Agr. Almanaque* 25:223-224. 1950. 9 Ag874  
Caused by Taphrina deformans.
- 388 CARVALHO, T. DE. Late blight of potatoes (Phytophthora infestans, de Bary). (In Portuguese.) *Gaz. do Agr.* 2:123-130. June 1950. 24 G25
- 389 CASTAÑO A., J. J. Tostomataceo aislado de las lesiones de cafetos con "macana." *Cent. Nac. de Invest. de Cafe. Bibliot. B. Inform.* 1950:25-33. Ref. Aug.1950. 68.29 C332  
Ceratostomella sp.
- 390 CECCARELLI, V. Behavior of Bordeaux mixture used in spraying of grapes, in regions where the atmosphere is polluted with sulphurous gas. (In Italian.) *Ricerca Sci.* 20:831-832. June 1950. 475 It1  
Downy mildew control.
- 391 CRANDALL, B. S. Coffee and Cinchona damping-off controlled by post-germination seedbed treatment. *Plant Dis. Rptr.* 34:263. Sept.15,1950. 1.9 P69P
- 392 CROSBY, J. Sulphur looks like the answer to potato scab. *Calif. Farmer, North. Ed.* 193:300. Oct.7, 1950. 6 C126
- 393 CUNNINGHAM, R. H. A mechanical shaking device. *Sci. Agr.* 30:396-397. Sept.1950. 7 Sci2  
For seed treatment.
- 394 EARHART, R. W. Small grain diseases in the Southeastern Coastal Plain, 1949-50. *Plant Dis. Rptr.* 34:257-258. Sept.15,1950. 1.9 P69P
- 395 ELLIS, D. E., and GARRISS, H. R. Control tomato late blight. *N. C. Agr. Col. Ext. C.* 331,rev.,10 p. Jan.1950. 275.29 N811
- 396 ELLIS, N. K. The effect of growing peppermint on the persistence of clubroot of cabbage in muck soil. *Mich. U. Microfilm Abs.* 10(3):119. 1950. 241.8 M58
- 397 ERWIN, D. C. Phytophthora root rot of safflower in Nebraska caused by Phytophthora drechsleri. *Plant Dis. Rptr.* 34:306. Oct.15,1950. 1.9 P69P
- 398 FERGUS, C. L. An epiphytotic of white oak anthracnose [Gnomonia veneta] in central Pennsylvania. *Plant Dis. Rptr.* 34:292-294. Oct.15,1950. 1.9 P69P
- 399 FERGUS, C. L., and MORRIS, C. L. Oak wilt [Chalara quercina] in Pennsylvania. *Plant Dis. Rptr.* 34:291. Oct.15,1950. 1.9 P69P
- 400 FERREIRA LIMA, A. D. Control anthracnose of grapes. (In Portuguese.) *Seleç. Agr.* 5(52):46. Aug. 1950. 9.2 Se4
- 401 FINLEY, A. M. A comparative study of the morphological and cultural characteristics of races 1 and 2 of Fusarium oxysporum f. lycopersici (Sacc.) Snyder and Hansen, and responses of tomato varieties to them. *Mich. U. Microfilm Abs.* 10(3):14-15. 1950. 241.8 M58
- 402 FLETCHER, D. G. Stem rust [Puccinia graminis] on wheat and oats in the Dakotas and Minnesota. (Abs.) *Plant Dis. Rptr.* 34:316-318. Oct.15,1950. 1.9 P69P
- 403 FOISTER, C. E., and WILSON, A. R. Dry rot of potatoes. *Gt. Brit. Min. Agr. Agriculture* 57:229-233. Aug.1950. 10 G79J
- 404 GANDEL'MAN, TS. S. Importance of summer planting of potatoes in the control of potato wart. (In Russian.) *Sad i Ogorod* 1950(6):61-64. June 1950. 87 Sa1
- 405 GARDNER, M. W., and YARWOOD, C. E. Downy mildew [Peronospora dianthicola] of carnation in California. *Plant Dis. Rptr.* 34:270. Sept.15,1950. 1.9 P69P
- 406 GERDEMANN, J. W. The effect of fertilizer treatment on sweetclover root rot [Phytophthora cactorum]. *Plant Dis. Rptr.* 34:261-262. Sept.15,1950. 1.9 P69P
- 407 GOTTLIEB, S., DAY, W. C., and PELCZAR, M. J., JR. The biological degradation of lignin. II. The adaptation of white-rot fungi to growth on lignin media. *Phytopathology* 40:926-935. Ref. Oct.1950. 464.8 P56  
Polyporus and Poria subacidia.
- 408 GOULD, C. J. Fusarium leaf blight of tulips. (Abs.) *Phytopathology* 40:965. Oct.1950. 464.8 P56
- 409 GRUSHEVOI, S. E. Admissible susceptibility of tobacco to black root [Thielaviopsis basicola]. (In Russian.) *Agrobiologiya* 1950(2):75-82. Mar./Apr.1950. 20 Ag822
- 410 HAASIS, F. A., and ELLIS, D. E. Effect of fungicidal drenches on incidence of lettuce downy mildew [Bremia lactucae] in the seed bed. *Plant Dis. Rptr.* 34:310-311. Oct.15,1950. 1.9 P69P
- 411 HADIWIDJAJA, T. The powdery mildew [Oidium] on the rambutan. (In Dutch.) *Landbouw [Bogor]* 22:245-257. Ref. May/June 1950. 22.5 L23  
English summary.
- 412 HANSON, E. W., AUSEMUS, E. R., and STAKMAN, E. C. Varietal resistance of spring wheats to fusarial head blight [Gibberella zeae]. *Phytopathology* 40:902-914. Ref. Oct.1950. 464.8 P56
- 413 HARRIS, W. B. Ground sprays for control of apple scab. *So. Austral. Dept. Agr. J.* 53:543. July 1950. 23 So84
- 414 HARVEY, J. M., and HANSEN, H. N. Camellia flower blight [Sclerotinia camelliae] and its control. (Abs.) *Phytopathology* 40:965-966. Oct.1950. 464.8 P56
- 415 HEIM, R., and SACCAS, A. La trachéomycose des Coffea excelsa et robusta des plantations de l'Oubangui-Charl. *Paris. Acad. des Sci. Compt. Rend.* 231:536-538. Sept.11,1950. 505 P21  
Caused by Fusarium xylarioides.
- 416 HENDRIX, J. W. A Phomopsis disease of tomatoes in Hawaii. (Abs.) *Phytopathology* 40:966. Oct. 1950. 464.8 P56
- 417 HUTTON, K. E. Black spot of apple and pear. *Agr. Gaz. N. S. Wales* 61:345-349. July 1,1950. 23 N472
- 418 JAUCH, C. "Antracnosis" de la vid. *Argentina. Min. de Agr. Almanaque* 25:255-256. 1950. 9 Ag874
- 419 JAUREGUIBERRY, S. Para una mejor producción de bulbos; como controlar la fusariosis en los Gladiolos. *Chacra* 20(237):46-47. Aug.1950. 9 C34
- 420 JOHNSON, F. The effect of several spray materials on the control of blossom blight in sour cherries. (Abs.) *Phytopathology* 40:967. Oct.1950. 464.8 P56



- 421 KAPUSTINSKIĬ, A. F. Immunity of pigmented plants and antibiotics. (In Russian.) *Uspekhi Sovrem. Biol.* 29:370-378. May/June 1950. 442.8 Er3  
Chiefly on resistance to fungous diseases.
- 422 KHUDOV, V. G. Granosan (NIUF-2) and *Fusarium* diseases. (In Russian.) *Selek. i Semen.* 17(8): 72. Aug. 1950. 61.9 Se5  
Experiments with grain.
- 423 KIELY, T. B. Black spot of citrus. N. S. Wales. Dept. Agr. Plant Dis. L. 11,7 p. 1950. 464.9 N47  
*Guignardia citricarpa*.
- 424 KIRCHER, W. H. Grain belt is hit by new kinds of rust. Farmer [St. Paul], Gen. Ed. 68(17):6,39. Sept. 2, 1950. 6 F2211  
Rust of wheat and oats.
- 425 KOEHLER, B., and BEVER, W. M. Oat and wheat seed treatments in 1950 in relation to dosage, storage before planting, and thoroughness in mixing. Plant Dis. Rptr. 34:259-261. Sept. 15, 1950. 1.9 P69P
- 426 KREITLOW, K. W., GARBER, R. J., and ROBINSON, R. R. Investigations on seed treatment of alfalfa, red clover, and Sudan grass for control of damping-off. *Phytopathology* 40:883-898. Ref. Oct. 1950. 464.8 P56
- 427 KUBLITSKAIA, M. A. Fusariosis of grape vine in Uzbekistan. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(6):37. June 1950. 95.8 V77  
Caused by *Fusarium* spp.
- 428 KVASNIKOV, B. V., OSNITSKAIA, E. A., and DEMUSENKO, A. L. On resistance of cabbage varieties to club root. (In Russian.) *Sad i Ogorod* 1950(6):51-53. June 1950. 87 Sal
- 429 LANSADÉ, PONCHET, J., and GUNTZ, M. Essais et contrôle des produits contre la carie blé en 1949. *Rev. Agr. de l'Afrique du Nord* 48:594-596. Aug. 4, 1950. 80 R328
- 430 LEUKEL, R. W. Seed treatment tests on oats and barley in 1950. Plant Dis. Rptr. 34:314-315. Oct. 15, 1950. 1.9 P69P
- 431 LIMA, A. D. F. Anthracnose of grapes. (In Portuguese.) *Agr. e Pecuária* 21(324):70. July 1950. 9.2 Ag89
- 432 LITTAUER, F., and NADEL-SCHIFFMANN, M. Control of brown rot in citrus fruits with nitrogen trichloride. *Palestine J. Bot. Rehovot Ser.* 7:181-182. Dec. 1949. 450 P172
- 433 LITTAUER, F., and GUTTER, J. Mass spore production of *Diplodia natalensis* and some other fungi pathogenic to citrus fruits. *Palestine J. Bot. Rehovot Ser.* 7:174-176. Dec. 1949. 450 P172
- 434 MACDONALD, W. P. Worst spring wheat rust epidemic in 15 years poses control problem. *Nowest. Miller* 244:17. Oct. 3, 1950. 298.8 N81
- 435 MACLEAN, N. A. Variation in monospore cultures of *Armillaria mellea*. (Abs.) *Phytopathology* 40: 968. Oct. 1950. 464.8 P56
- 436 MCWHORTER, F. P. Rust on garden peas in Oregon. Plant Dis. Rptr. 34:269. Sept. 15, 1950. 1.9 P69P
- 437 MAGIE, R. O. Controlling the *Gladiolus* fusarium disease. *New Eng. Gladiolus Soc. Gladiolus Mag.* 14(4):234-38. Sept. 1950. 96.43 N44Suppl.
- 438 MANTEN, A., KLÖPPING, H. L., and KERK, G. J. M. van der. Investigations on organic fungicides. II. A new method for evaluating antifungal substances in the laboratory. *Antonie van Leeuwenhoek J. Microbiol. & Serol.* 16:282-294. Ref. 1950. 448.8 N28A
- 439 MARC, B. L'oidium du pommier. *Cour. Hort.* 12:540-543. Oct. 1950. 80 C834
- 440 MENZIES, J. D. Potato scab control with calcium compounds. (Abs.) *Phytopathology* 40:968. Oct. 1950. 464.8 P56
- 441 MINZ, G. Peach pocket. *Palestine J. Bot. Rehovot Ser.* 7:185-186. Dec. 1949. 450 P172  
*Taphrina deformans*.
- 442 MINZ, G., and GUTTER, J. *Sclerotium bataticola* as a potential pathogen of various citrus fruits. *Palestine J. Bot. Rehovot Ser.* 7:182-184. Dec. 1949. 450 P172
- 443 MINZ, G. A starch test to aid in the pruning of citrus trees affected by *Diplodia*. *Palestine J. Bot. Rehovot Ser.* 7:184-185. Dec. 1949. 450 P172
- 444 MOORE, M. H. Brown rot of apples: fungicide trials, and studies of the relative importance of different wound-agents. *J. Hort. Sci.* 25:225-234. Ref. June 1950. 80 J825
- 445 MOORE, M. H. Nut rotting in *Corylus avellana* L. in relation to the activities of the nut weevil, *Balaninus nucum* L. *J. Hort. Sci.* 25:213-224. Ref. June 1950. 80 J825  
Chiefly *Sclerotinia fructigena* as a wound parasite.
- 446 MORRIS, H. E., and AFANASIEV, M. M. Testing of different potato varieties for their resistance to scab in Montana. (Abs.) *Phytopathology* 40:968. Oct. 1950. 464.8 P56
- 447 MULLER, A. S. *Sphaceloma violae* discovered on violets in Honduras. C. A. Plant Dis. Rptr. 34:270. Sept. 15, 1950. 1.9 P69P
- 448 NEW SOUTH WALES. DEPT. OF AGRICULTURE. *Armillaria* root rot of fruit trees. N. S. Wales. Dept. Agr. Plant Dis. L. 18,5 p. 1950. 464.9 N47  
*Armillaria mellea*.
- 449 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Brown rot of stone fruits. N. S. Wales. Dept. Agr. Plant Dis. L. 4,5 p. 1950. 464.9 N47  
*Sclerotinia fructicola*.
- 450 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF SCIENCE SERV. Brown patch of turf. N. S. Wales. Dept. Agr. Plant Dis. L. 73,2 p. 1950. 464.9 N47  
*Rhizoctonia solani* and *Curvularia spicata*.
- 451 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF SCIENCE SERV. Foot-rot of wheat. N. S. Wales. Dept. Agr. Plant Dis. L. 36,4 p. 1950. 464.9 N47
- 452 NICOLINI, J. C. "Antracnosis" del olivo. *Argentina. Min. de Agr. Almanaque* 25:288. 1950. 9 Ag874  
Caused by *Gloeosporium olivarum*.
- 453 NYLAND, G., and HEWITT, W. B. Sooty blotch, a leaf spot of *Vitis californica* Benth. (Abs.) *Phytopathology* 40:969. Oct. 1950. 464.8 P56  
Caused by a species of *Mycosphaerella*.
- 454 OREGON. STATE COLLEGE FEDERAL CO-OPERATIVE EXTENSION SERV. Dwarf smut [of wheat] in the Pacific Northwest. *Wash. State Col. Ext. P. N. W.* B. 2,3 p. Aug. 1950. 275.29 W27Pn  
Washington State College, Extension Service cooperating
- 455 ORSENIGO, M., and BONCOMPAGNI, T. Preliminary note on the treatment against spores in the eradication of chestnut canker caused by *Endothia parasitica*. (In Italian.) *Not. sulle Mal. delle Pianta* 10:52-57. Ref. May/June 1950. 464.8 N84
- 456 PALTI, J. Methods of assessing the incidence of olive leaf spot; a contribution to the technique of plant disease estimation. *Palestine J. Bot. Rehovot Ser.* 7:156-166. Dec. 1949. 450 P172  
*Cycloconium oleaginum*.
- 457 PALTI, J., MOELLER, S., and REICHERT, I. Trials for the control of olive leaf spot. *Palestine J. Bot. Rehovot Ser.* 7:167-173. Dec. 1949. 450 P172  
*Cycloconium oleaginum*.
- 458 PANFILOVA, T. S. Control of anthracnose of grapes in Middle Asia. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(7):27-28. July 1950. 95.8 V77  
Caused by *Gloeosporium ampelophagum*.
- 459 PATTERSON, J. D. Report on determination of dithiocarbamates. *Assoc. Off. Agr. Chem. J.* 33:788-790. Aug. 15, 1950. 381 As7  
In fungicides.
- 460 PETTINARI, C. *Fusicladium dendriticum* and *Trichothecium roseum* in a typical alteration of apples. (In Italian.) *Agr. Nuova* 2:319-321. June 1950. 16 Ag8223
- 461 PIARD-DOUCHEZ, Y. Le Spongospora subterranea et son action pathogène. *Ann. des Sci. Nat. Bot. et Biol. Vég. (ser. 11, 1949)* 10:91-122. Ref. June 1950. 450 An75  
On potatoes.
- 462 PICHLER, F. Weizensteinbrandbekämpfung ein problem! *Pflanzenarzt* 3(9):3-4. Sept. 1, 1950. 464.9 P482
- 463 PIGNAL, S. Au sujet du "rhizoctone noir" de la pomme de terre. *Jura Agr. (n.s.)* 61:1. Oct. 15, 1950. 14 J97
- 464 PILGRIM, A. J., and LARSON, J. Fungicides for caprifig clean-up. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 4:16-18. 1950. 93.44 C122P
- 465 PILGRIM, A. J. Phomopsis canker of *Kadotas*. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 4:30-32. 1950. 93.44 C122P



- 466 PINTO-LOPES, J. Wood-rotting polypores of standing trees in Portugal. Soc. Broteriana B. (ser.2)23: 219-223. 1949. 451 C66
- 467 POHJAKALLIO, O., and SALONEN, A. On the appearance and significance of fungi and bacteria antitotically affecting the fungus *Sclerotinia trifoliorum* Erikss. Suomen Maataloustiet. Seura. Maataloustiet. Aikakausk. 22:63-67. 1950. 20 Su7M
- 468 PRIHODA, A. Deux septorioses des arbres forestiers. (In Czech.) Lesnická Práce 29:85-89. 1950. 99.8 L56  
French summary.
- 469 PRIHODA, A. *Sclerophoma mali* (Brun.) Sydow on apples in Bohemia. (In Czech.) Ochrana Rostlin 23:11-15. Ref. 1950. 464.8 Oc3  
French summary.
- 470 REICHERT, I., and CHORIN, M. A rust disease of Aleppo pines in Palestine. Palestine J. Bot. Rehovot Ser. 7:135-141. Dec.1949. 450 P172
- 471 RICHARDS, M. C. Some notes on apple disease control in New Hampshire. Plant Dis. Rptr. 34:299. Oct.15,1950. 1.9 P69P
- 472 RON PEDRIQUE, A. La gomosis de las ciruelas. Agro [El Valle] 5(13):5-12. Jan./Aug.1950. 9.95 Ag83
- 473 ROVSKII, V. M., OZOLIN, G. P., and SOLOV' - EVA, A. I. Selection of elms [*Ulmus*] for resistance to dieback [*Ceratostomella ulmi*]. (In Russian.) Lesn. Khoz. 3(4):43-45. Apr.1950. 99.8 L562
- 474 RUIZ ORONoz, M., and HERRERA SUÁREZ, T. Estudio de *Candida krusei* (A. Cast.) Berkhout aislada de la epidermis del bulbo de ajo (*Allium sativum*). Mex. Inst. de Biol. An. 21:3-16. Ref. 1950. 442.9 M57
- 475 SACKSTON, W. E. Effect of pasmo disease on seed yield and thousand kernel weight of flax. Canad. J. Res. Sect. C, Bot. Sci. 28:493-512. Ref. Oct.1950. 470 C16C
- 476 SCHARIF, G. Anthracnose de la vigne, *Gloeosporium ampelophagum* (Pass.) Sacc. (Sum.) Iran. Dépt. Gén. de la Protect. des Plantes. Lab. Ent. et Phytopath. Appl. 9:5. Dec.1949. 464.9 P432  
Persian text, p. 23-26.
- 477 SCHMIDT, T. Die Septoria-blattfleckenkrankheit des selleries. Pflanzenarzt 3(9):4-5. Sept.1,1950. 464.9 P482
- 478 SCURTI, J. On the morbid histology of maize attacked by *Ustilago maydis*. (In Italian.) Ann. della Sper. Agr. (n.s.)4:827-855. Ref. 1950. 16 An76  
English summary.
- 479 SIMMONDS, P. M., SALLANS, B. J., and LEDINGHAM, R. J. The occurrence of *Helminthosporium sativum* in relation to primary infections in common root-rot of wheat. Sci. Agr. 30:407-417. Ref. Oct.1950. 7 Sci2
- 480 SPRAGUE, R., and RAINEY, C. J. Studies on the life history of *Typhula* spp. on winter wheat in Washington. (Abs.) Phytopathology 40:969. Oct.1950. 464.8 P56
- 481 STEENLAND, A., and BURKE, E. *Typhula* species pathogenic on mint. Plant Dis. Rptr. 34:322. Oct.15,1950. 1.9 P69P
- 482 STEPANOV, K. M. Sources of contagious origin of infectious drying up of lemons. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(8):39-44. 1950. 20 Ak1  
*Deuterophoma tracheiphila*.
- 483 STOA, T. E. New plant stem rusts. Dakota Farmer 70(20):3. Oct.21,1950. 6 D14
- 484 STONER, W. N. A preliminary report of results from some fungicide spray trials for control of *Helminthosporium* leaf blight of sweet corn. Plant Dis. Rptr. 34:312-313. Oct.15,1950. 1.9 P69P
- 485 STREETS, R. B. Fusarium wilt of flax in Arizona. (Abs.) Phytopathology 40:969-970. Oct.1950. 464.8 P56
- 486 THIRUMALACHAR, M. J., and PAVGI, M. S. Sooty stripe disease of bamboo in India. Torrey Bot. Club. B. 77:385-388. Sept./Oct.1950. 451 T63B  
*Popularia arundinis* on *Bambusa* and *Phyllostachys*.
- 487 THOMAS, G. P. Two new outbreaks of *Phomopsis lokoyae* in British Columbia. Canad. J. Res. Sect. C, Bot. Sci. 28:477-481. Oct.1950. 470 C16C  
On *Pseudotsuga taxifolia*.
- 488 THOMAS, W. D., JR. A great friend faces destruction. Green Thumb 7(11):23-25. Nov.1950. 80 G82  
*Chalara quercina* on oak.
- 489 TROTTER, A. "Chestnut canker [*Endothia parasitica*]" in Campania and the problem of the reconstitution of the chestnut plantings. (In Italian.) Osserv. Region. di Fitopatol. Ricerche. Osserv. e Divulg. Fitopatol. per la Campania ed il Mezzogiorno 11:19-28. 1949. 464.9 P832
- 490 U. S. DEPT. OF AGRICULTURE, BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Camellia flower blight [*Sclerotinia camelliae*] survey, December 1949-March 1950. Plant Dis. Rptr. 34:264-268. Sept.15, 1950. 1.9 P69P  
In cooperation with U. S. Dept. of Agriculture. Bureau of Plant Industry, Soils and Agricultural Engineering.
- 491 VERDEREVSKII, D. D., and VOITOVICH, K. A. On spraying vineyards [with Bordeaux mixture] during periods of incubation [of mildew]. (In Russian.) Vinodel. i Vinograd. SSSR. 10(6):28-32. June 1950. 95.8 V77
- 492 VOLLEMA, J. S. Mildew on rubber. (In Dutch.) Bergcultures 19:243. July 1,1950. 22.5 B45
- 493 WAGER, V. A. Spraying for the control of black spot in citrus. Farming So. Africa 25:226-228. July 1950. 24 So842  
Also in Citrus Grower 199:8-11. Aug.1950. 80 C495
- 494 WEST, G. Treat grain seed to insure against disease. Kans. Farmer 87(18):10-11,31. Sept.16,1950. 6 K13
- 495 WESTON, W. A. R. D. Potato blight. Brit. Farmer 27:9. Sept.30,1950. 281.8 B77  
*Phytophthora infestans*.
- 496 WHITE, J. M. New Mexico research lab studies cotton wilt and blight problems. Cotton Gin & Oil Mill Press 51(20):26-27. Sept.30,1950. 304.8 C822  
Verticillium wilt and angular leaf spot in cotton.
- 497 WILHELM, S. The inoculum potential of *Verticillium albo-atrum* as affected by soil amendments. (Abs.) Phytopathology 40:970. Oct.1950. 464.8 P56
- 498 WINKLER, B. Die saatbeizmittel im praktischen pflanzenschutz. Allgäuer Bauernbl. 18:567. Sept.21,1950. 18 AL53
- 499 YARWOOD, C. E. Dry weather fungi; powdery mildews abundant in California where they thrive in the dry summer climate. Calif. Agr. [Calif. Sta.] 4(10):7,12. Oct.1950. Oct.1950. 100 C12Cag
- 500 YARWOOD, C. E. Spraying upper vs. lower leaf surface in control of hop mildew [*Pseudoperonospora humuli*]. (Abs.) Phytopathology 40:971. Oct.1950. 464.8 P56
- 501 YARWOOD, C. E. Transmitted effects of bean powdery mildew [*Erysiphe polygoni*] and bean rust [*Uromyces phaseoli*]. (Abs.) Phytopathology 40:971. Oct.1950. 464.8 P56
- 502 YLIMÄKI, A. The fight against the potato wart. (In Swedish.) Forsk.- och Försöksresultat 2(4): 18-21. Apr.30,1950. 20 F77  
In Finland.

## Diseases Caused by Bacteria

- 503 AGARKOV, V. A. Bacteriosis of barley endosperm. (In Russian.) Selekt. i Semen. 17(6):48-50. June 1950. 61.9 Se5  
*Bacterium atrofaciens*.
- 504 CICCARONE, A., and MEZZETTI, A. Bacterial spotting of tomato in Italy. (In Italian.) Not. sulle Mal. delle Piante 10:33. May/June 1950. 464.8 N84
- 505 FULTON, R. W. Bacteriophages attacking *Pseudomonas tabaci* and *P. angulatum*. Phytopathology 40:936-949. Ref. Oct.1950. 464.8 P56
- 506 GORLENKO, M. V., and VORONKEVICH, I. V. Phytopathogenic bacteria and insect-vectors. (In Russian.) Uspekhi Sovrem. Biol. 29:458-463. Ref. May/June 1950. 442.8 Er3  
Role of insects in spreading bacterial diseases of plants.
- 507 HANSEN, H. N. Canker diseases in figs. Calif. Flg. Inst. Proc. Annu. Res. Conf. 3:18-19. 1949. 93.44 C122P
- 508 HILDEBRANDT, A. C. Some important galls and wilts of plants and the inciting bacteria. Bact. Rev. 14:259-272. Ref. Sept.1950. 448.3 B13
- 509 MILBRATH, D. G. Bacterial spot disease of peach. Calif. Dept. Agr. B. 39:109-113. July/Sept.1950. 2 C12M
- 510 MOSKOVETS, S. N. On resistance of cotton to diseases. (In Russian.) Agrobiologiya 1950(3):148-151. May/June 1950. 20 Ag822  
*Xanthomonas malvacearum* and *Verticillium dahliae*.



511 PILGRIM, A. J. Bacterial canker of Adriatics. Calif. Fig Inst. Proc. Annu. Res. Conf. 4:32-33. 1950. 93.44 C122P

512 SCHWARZ, M. B., and HARTLEY, C. The selection of Schwarz 21, a strain of *Arachis hypogaea* resistant to *Bacterium solanacearum*. (In Dutch.) Landbouw [Bogor] 22:223-244. Ref. May/June 1950. 22.5 L23  
English summary.

513 SCURTI, J. *Pseudomonas marginata* on *Gladiolus*. (In Italian.) Ann. della Sper. Agr. (n.s.) 4:819-826. Ref. 1950. 16 An76  
English summary.

514 VITORIA, E. R. Agalla de "corona" o "verru-gosis" de la vid (*Agrobacterium tumefaciens*). (Smith, and Townsend, Conn.) Vinos, Vinas y Frutas 45:496-501. June 1950. 9 Ag89

515 VOLCANI, Z. A disease of green sweet pepper fruits caused by *Bacillus polymyxa*. Palestine J. Bot. Revohot Ser. 7:142-155. Ref. Dec.1949. 450 P172

#### Viruses and Virus Diseases

516 ADRIANCE, G. W. Prophylaxis and control of peach viruses and nematodes in the United States. (In Italian.) Riv. della Ortiflorofruttic. Ital. 34:119-123. July/Aug. 1950. 86 R22

517 ALCARAZ MIRA, E. Variedades de tabaco resistentes al mosaico ordinario. II. Spain. Inst. Nac. de Invest. Agron. B. 10(22):9-47. Ref. June 1950. 105.6 Sp14  
English summary.

518 BAWDEN, F. C., and PIRIE, N. W. Some effects of freezing in the leaf, and of citrate in vitro, on the infectivity of a tobacco necrosis virus. J. Gen. Microbiol. 4:482-492. Ref. Sept.1950. 448.3 J823

519 BAWDEN, F. C., and PIRIE, N. W. Some factors affecting the activation of virus preparations made from tobacco leaves infected with a tobacco necrosis virus. J. Gen. Microbiol. 4:464-481. Ref. Sept.1950. 448.3 J823

520 BERNUTH, VON. Virusbekämpfung in der kartoffelzucht. Z. f. Pflanzenkrank. 56:374-379. Oct./Dec.1949. 464.8 Z3

521 BLATTNÝ, C., and OSVALD, C. V. Les maladies à virus chez *Sambucus nigra*. (In Czech.) Ochrana Rostlin 23:9-11. 1950. 464.8 Oc3  
French summary.

522 BLATTNÝ, C., OSVALD, C. V., and NOVÁK, J. Les maladies à virus et les phénomènes semblables chez *Cannabis sativa*. (In Czech.) Ochrana Rostlin 23:5-9. 1950. 464.8 Oc3  
French summary.

523 BLATTNÝ, C., and OSVALD, C. V. Revue des maladies à virus chez le houblon. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:600-611. Ref. 1950. 19.5 C332C  
French summary.

524 BLODGETT, E. C., GRAHAM, S. O., and WILLIAMS, H. E. Virus studies on seedling rootstocks from Mahaleb and Mazzard trees. (Abs.) Phytopathology 40:963-964. Oct.1950. 464.8 P56

525 CAMPBELL, L., and BREAKEY, E. P. Control of yellows in the Marshall strawberry. (Abs.) Phytopathology 40:964. Oct.1950. 464.8 P56

526 CIFERRI, R. Occurrence of the virus disease peach crinkle in Italy. (In Italian.) Not. sulle Mal. delle Piante 10:43-45. May/June 1950. 464.8 N84

527 COCHRAN, L. C. Infection of apple and rose with the ring-spot virus. (Abs.) Phytopathology 40:964. Oct.1950. 464.8 P56

528 COCHRAN, L. C. Passage of the ring-spot virus through peach seeds. (Abs.) Phytopathology 40:964. Oct.1950. 464.8 P56

529 DIACHUN, S., and VALLEAU, W. D. Viruses in green-wrap tomatoes shipped to Louisville, Kentucky from California. Plant Dis. Rptr. 34:269. Sept.15,1950. 1.9 P69P

530 FITZGERALD, O. A. New tomato hunters. Wash. Farmer 75:677. Sept.21,1950. 6 R151  
Developing tomatoes resistant to curly-top disease.

531 GOLD, A. H. Particles, possible virus, isolated from orchids. (Abs.) Phytopathology 40:965. Oct. 1950. 464.8 P56

532 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Cauliflower mosaic. Gt. Brit. Min. Agr. & Fisheries. Adv. L. 370,3 p. Sept.1950. 10 G79La

533 GROGAN, R. G., and BARDIN, R. Some aspects concerning seed transmission of lettuce mosaic virus. (Abs.) Phytopathology 40:965. Oct.1950. 464.8 P56

534 HECTOR, J. M. Virus and gene. 1. Diseases caused by virus. Citrus Grower 199:3. Aug.1950. 80 C495

535 HENDRIX, J. W. A virus disease of *Hibiscus* in Hawaii. (Abs.) Phytopathology 40:966. Oct.1950. 464.8 P56

536 JENSEN, D. D. Mosaic of *Cymbidium orchids*. (Abs.) Phytopathology 40:966-967. Oct.1950. 464.8 P56

537 JENSEN, D. D. Nasturtium mosaic, a virus disease of *Tropaeolum majus* L. in California. (Abs.) Phytopathology 40:967. Oct.1950. 464.8 P56

538 KEENER, P. D. Know your melon seed. Prog. Agr. Ariz. 2(3):10-11. Oct./Dec.1950. 6 P9452  
Seed free from mosaics.

539 KOHLER, E. Fortschritte beim nachweis von kartoffelvirosen mit der testpflanzenmethode. Z. f. Pflanzenkrank. 56:369-374. Ref. Oct./Dec.1949. 464.8 Z3

540 KVIČALA, B. A. The study of virus necrosis of Brussels sprouts. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:586-600. Ref. 1950. 19.5 C332C  
English summary.

541 LARSON, R. H., MATTHEWS, R. E. F., and WALKER, J. C. Relationships between certain viruses affecting the genus *Brassica*. Phytopathology 40:955-962. Ref. Oct.1950. 464.8 P56

542 LEACH, L. D., and OSWALD, J. W. Curly dwarf, a virus disease of globe artichoke. (Abs.) Phytopathology 40:967-968. Oct.1950. 464.8 P56

543 MCWHORTER, F. P. Natural occurrence of aster yellows? on *Trifolium hybridum*. Plant Dis. Rptr. 34:322. Oct.15,1950. 1.9 P69P

544 MAGEE, C. J. Woodiness or mosaic disease of passion fruit. N. S. Wales. Dept. Agr. Plant Dis. L. 7,5 p. 1950. 464.9 N47

545 MENZIES, J. D. Purple-top-type viruses of potatoes in Washington. (Abs.) Phytopathology 40:968. Oct.1950. 464.8 P56

546 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF SCIENCE SERV. Mosaic disease of cucumber, squash, rockmelon and other cucurbits. N. S. Wales Dept. Agr. Plant Dis. L. 77,2 p. 1950. 464.9 N47

547 OCFEMIA, G. O. The rapid dissemination of the mosaic disease of abaca, or Manila hemp plant (*Musa textilis* Née), in the field. Philippine Agr. 33:142-144. Oct./Dec.1949. 25 P542

548 RICH, S. Soil treatment for the field control of lettuce big-vein. Plant Dis. Rptr. 34:253-255. Sept.15, 1950. 1.9 P69P

549 RICHARDS, B. L., and WADLEY, B. N. Status of our knowledge of the western-X virus in Utah. (Abs.) Phytopathology 40:969. Oct.1950. 464.8 P56

550 RICHARDS, B. L., and WADLEY, B. N. Utah Dixie rusty mottle of sweet cherry. (Abs.) Phytopathology 40:969. Oct.1950. 464.8 P56

551 RICHARDS, M. C. Rugose mosaic and unmottled curly dwarf on potatoes in New Hampshire. Plant Dis. Rptr. 34:322. Oct.15,1950. 1.9 P69P

552 RYZHKOV, V. L., SMIRNOVA, V. A., and GORODSKAYA, O. S. Effect of some dyes on the virus nucleoprotein of mosaic diseases in tobacco. (In Russian.) Biokhimiya 15:222-229. Ref. May/June 1950. 385 B523

553 SCHWARTZ, D., and CUZIN, J. Influence du facteur lumière sur le temps d'incubation de la mosaïque du tabac. Inst. Pasteur Ann. 79:178-185. Aug.1950. 448.3 An75

554 SLOGTEREN, E. VAN. Serology for virus research of plants. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:688-702. Aug./Sept.1950. 86 N384  
English summary.

555 STEUDEL, W., and HEILING, A. Über die verbreitung der vergilbungskrankheit und des mosaiks der Beta-rüben in Westdeutschland. Z. f. Pflanzenkrank. 56:380-385. Oct./Dec.1949. 464.8 Z3



556 TRAVERSI, B. A. Peste negra del tomate. Argentina. Min. de Agr. Almanaque 25:319-320. 1950. 9 Ag874

Caused by *Lycopersicum virus*.

557 WEATHERS, L. G., and COCHRAN, G. W. Transmission of components of the western-X virus complex to herbaceous plants. (Abs.) *Phytopathology* 40: 970. Oct.1950. 464.8 P56

#### Diseases Caused by Nematodes

558 ALLEN, M. W., and RASKI, D. J. Chemical control of nematodes. Calif. Agr. [Calif. Sta.] 4(10):5,15. Oct.1950. 100 C12Cag

559 BAINES, R. C., and THORNE, G. Olive, a new host for the citrus-root nematode. (Abs.) *Phytopathology* 40:963. Oct.1950. 464.8 P56

560 GODFREY, G. H. The citrus nematode in Texas. *Plant Dis. Rptr.* 34:269-270. Sept.15,1950. 1.9 P69P

561 GODFREY, G. H., and WAIBEL, C. W. The citrus nematode in the Lower Rio Grande Valley of Texas. *Border Scope* 2(10):11. Oct.1950. 6 B64

562 GOODEY, T. Plant parasitic nematodes: a brief survey and some present day trends. *Cong. Internatl. de Zool. Compt. Rend.* (1948)13:481-485. Ref. 1949. 410.9 In8

563 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Potato tuber eelworm. *Gt. Brit. Min. Agr. & Fisheries. Adv. L.* 372,3 p. Sept.1950. 10 G79La

564 MCBETH, C. W. Nematodes affecting figs. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 3:16-17. 1949. 93.44 C122P

565 MORENO, A. F. La anguillulosis en la horticultura. Argentina. Min. de Agr. Almanaque 25:125-128. 1950. 9 Ag874

*Heterodera marioni*.

566 PETERS, B. G. Controlling potato root eelworm. *Brit. Farmer* 28:11. Oct.31,1950. 281.8 B77

567 SMALL, T., DUNN, E., and THOMAS, G. E. Potato root eelworm in Jersey. *Gt. Brit. Min. Agr. Agriculture* 57:212-215. Aug.1950. 10 G79J

Also in *London Corn C.* 107(74):6. Sept.15,1950. 286.81 L84

*Heterodera rostochiensis*.

568 STEINER, G. Plant nematology research in the Bureau of Plant Industry, Soils, and Agricultural Engineering. *Plant Dis. Rptr. Sup.* 195:463-470. Sept.15, 1950. 1.9 P69P

569 SZKOLNIK, M. Nematode root knot of Cinchona in the Western Hemisphere. *Plant Dis. Rptr.* 34: 305. Oct.15,1950. 1.9 P69P

#### ECOLOGY

570 BERGHEN, C. VAN DEN. Les Groupements de plantes adventices des moissons, dans la région gantoise. *Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech.* 1950(4):273-278. Aug.1950. 330.9 In7C

571 BLACKMAN, G. E., and RUTTER, A. J. Physiological and ecological studies in the analysis of plant environment. V. An assessment of the factors controlling the distribution of the bluebell (*Scilla non-scripta*) in different communities. *Ann. Bot. [London]* (n.s.)14:487-520. Ref. Oct.1950. 450 An7

572 BÖCHER, T. W. Climate, soil, and lakes in continental west Greenland in relation to plant life. *Meddel. om Grønland* 147(2),63 p. Ref. 1949. 502 C792

573 BOYKO, H. On climatic extremes as decisive factors for plant distribution. *Palestine J. Bot. Rehovot Ser.* 7:41-52. Ref. Dec.1949. 450 P172

574 BOYKO, H. On the climax-vegetation of the Negev with special reference to arid pasture-problems. *Palestine J. Bot. Rehovot Ser.* 7:17-35. Dec.1949. 450 P172

575 CHOUARD, P. L'association à *Telephium imperati* et *Clypeola* des corniches calcaires encorbellement, et ses richesses floristiques à la Pène de Ségurnat, près Gavarnie (H.-Pyr.). *Soc. Bot. de France. B.* 96:155-160. 1949. 451 F84B

576 CHOUARD, P. Coup d'oeil sur les groupements végétaux des Pyrénées Centrales. *Soc. Bot. de France. B.* 96:145-149. 1949. 451 F84B

577 CHOUARD, P. Introduction à la biologie montagnarde. *Soc. Bot. de France. B.* 96:21-29. 1949. 451 F84B

578 DOTY, M. S., and ARCHER, J. G. An experimental test of the tide factor hypothesis. *Amer. J. Bot.* 37:458-464. Ref. June 1950. 450 Am36

579 GERLINGS, J. H. J. The present basis for the selection of kinds of woods. (In Dutch.) *Nederland. Boschbouw Tijdschr.* 22:257-267. (To be cont.) Sept. 1950. 99.8 N28

An ecological study.

580 HARRISON, J. W. H. A pondweed, new to the European flora, from the Scottish Western Isles, with some remarks on the phytogeography of the island group. *Phyton* 2:104-109. July 3,1950. 450 P565

*Potamogeton epihydrus nuttallii*.

581 HEDIN, L. Les types de prairies de l'ouest de la France, ecologie et phytosociologie. *Internatl. Grassland Cong. Rpt.* 5:172-176. 1949. 60.19 In85R

English summary.

582 HEINEMANN, P., and LALOUE, R. Types de prairies et prairiculture au Plateau des Tailles. *Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech.* 1950(4):257-271. Aug.1950. 330.9 In7C

583 HUGHES, R. E. The classification of grassland plant communities and its relation to that of soil. *Internatl. Grassland Cong. Rpt.* 5:154-160. 1949. 60.19 In85R

Includes discussion.

584 KRAUSE, W. Über vegetationskarten als hilfsmittel kausalanalytischer untersuchung der pflanzen-decke. *Planta* 38:296-323. 1950. 450 P693

585 LEOPOLD, A. S. Deer in relation to plant successions. *J. Forestry* 48:675-678. Ref. Oct.1950. 99.8 F768

Also in *No. Amer. Wildlife Conf. Trans.* 15:571-580. Ref. 1950. 412.9 N814

Includes discussion.

586 MCQUEENEY, C. R. An ecological study of the relationship between direction of slope, elevation, and forest cover in Brown County, Indiana. *Butler U. Bot. Studies* 9:239-269. Ref. May 1950. 450 B97

587 MIKKELSEN, V. M. Ecological studies of the salt marsh vegetation in Isefjord. *Dansk Bot. Arkiv* 13(2), 48 p. Ref. 1949. 450 D23

588 NEGRE, R. Contribution à l'étude phytosociologique de l'Oisans: la haute vallée du Vénéon (Massif Meije-Ecrins-Pelvoux). *Phyton* 2:23-50. Ref. July 3, 1950. 450 P565

589 NOIRFALISE, A. Premier aperçu sur l'étage du hêtre et les types de hêtrales en Haute Ardenne. *Gembloux. Inst. Agron. de l'État B.* 17:76-100. Ref. 1948/1949. 105.1 G285

English summary.

590 POKORNÝ, J. Man changes the landscape. (In Czech.) *Lesnická Práce* 29:71-79. 1950. 99.8 L58

English summary.

591 PORTÈRES, R. Compétition au sein de groupements végétaux aquatiques dans les lagunes de la Côte d'Ivoire. *Soc. Bot. de France. B.* 97:109-112. Apr./June 1950. 451 F84B

592 REGINSTER, P. La cartographie des associations végétales forestières du Plateau des Tailles dans leurs rapports avec la sylviculture. *Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech.* 1950(4):249-256. Aug.1950. 330.9 In7C

593 RICHARDS, P. W. Climatic limits of vegetation. *Nature [London]* 166:536-538. Sept.30,1950. 472 N21

594 SCHREIER, O. Was ist "massenwechsel?" *Pflanzenarzt* 3(8):2-3. Aug.1,1950. 464.9 P482

595 SHANTZ, H. L. The ecological approach to land management. *J. Forestry* 48:673-675. Oct.1950. 99.8 F768

596 SOUSA, E. DE. Considerações acerca do equilíbrio entre as comunidades florestais e o ambiente em Moçambique [Considerations on the equilibrium of forest communities and the environment in Mozambique]. Lisboa, 1950. 29 p. ([Portugal] Junta de Investigações Coloniais. Colóquios, 7) 99.27 So82

597 SUZUKI, T., and KATÔ, R. An attempt to the rational elucidation of social plant-life: hydrature and *Abies-Picea* climax in Japan. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:115. Apr.25,1950. 99.8 N62



- 598 VRIES, D. M. DE. Botanical composition and ecological factors. Internatl. Grassland Cong. Rpt. 5:133-142. 1949. 60.19 In85R  
Includes discussion.
- 599 ZÖTTL, H. Fragen der pflanzensoziologischen forschung. Naturwiss. Rundschau 3:394-398. Ref. Sept.1950. 474 N216

## MORPHOLOGY, ANATOMY, AND CYTOLOGY

- 600 ADDICOTT, F. T., and ROMNEY, V. E. Anatomical effect of Lygus injury to guayule. Bot. Gaz. 112: 133-134. Sept.1950. 450 B652
- 601 ALLEN, E. K., and ALLEN, O. N. The anatomy of nodular growths on the roots of *Tribulus cistoides* L. Soil Sci. Soc. Amer. Proc. 1949(14):179-183. Ref. 1950. 56.9 So3
- 602 ARBER, A. R. The natural philosophy of plant form. Cambridge, Eng., U. Press, 1950. 246 p. 463.42 Ar1
- 603 ASHBY, E. Leaf morphology and physiological age. Sci. Prog. [London] 38:678-685. Ref. Oct.1950. 472 Sci22
- 604 BAUM, H. Septalspalten im gynözeum von *Koeleruteria paniculata*. Österr. Bot. Z. 97:207-215. Ref. 1950. 450 Os7
- 605 BELL, P. R. Studies in the genus *Elaphoglossum* Schott. I. Ann. Bot. [London] (n.s.)14:545-555. Oct. 1950. 450 An7
- 606 BENJAMIN, R. K., and SHANOR, L. The development of male and female individuals in the dioecious species *Laboulbenia formicarum* Thaxter. Amer. J. Bot. 37:471-476. Ref. June 1950. 450 Am36
- 607 BERGMAN, B. Melosis in two different clones of the apomictic *Chondrilla juncea*. Hereditas 34:297-320. Ref. 1950. 442.8 H42
- 608 BHARGAVA, K. S. Formation and liberation of zoospores in *Isoachyla anisospora* var. *indica*. Bot. Gaz. 112:24-31. Ref. Sept.1950. 450 B652
- 609 BIEBL, R. Zellphysiologische beobachtungen an panaschierten *Abutilon*-pflanzen. Österr. Bot. Z. 97: 168-179. Ref. 1950. 450 Os7
- 610 BÖCHER, T. W. Structure and biology of four species of the Stigonemataceae from a shallow pool at Ivigut. Meddel. om Grönland 147(5), 20 p. Ref. 1950. 502 C792
- 611 BOSEMARK, N. O. Accessory chromosomes in *Festuca pratensis* Huds. (Abs.) Hereditas 34:366-368. 1950. 442.8 H42
- 612 BREIDER, H. Morphologische resistenzmerkmale der rebenblätter. Züchter 20:210-212. 1950. 442.8 Z8
- 613 CAILLOUX, M. Observations sur l'exsudation par les poils radiculaires. Assoc. Canad.-Franç. pour l'Avanc. des Sci. 16:158-162. 1950. 517 M76
- 614 CHADEFAUD, M. Les Psilotinées et l'évolution des Archégoniates. Soc. Bot. de France. B. 97:99-100. Apr./June 1950. 451 F84B
- 615 CHANDLER, A. Phyllotaxy. Amer. Midland Nat. 44:506-508. Sept.1950. 410 M58
- 616 CHEVALIER, G. Observations sur les squamules de graminées. Ann. des Sci. Nat. Bot. et Biol. Vég. (ser.11,1949)10:123-129. June 1950. 450 An75
- 617 CHRISTIANSEN, H. A tetraploid *Larix decidua* Miller. Danske Vidensk. Selsk. Biol. Meddel. 18(9), 8 p. 1950. 442.9 D23
- 618 CICCARONE, A. The 'grooved fruits' of the tomato variety 'San Marzano.' (In Italian.) Ann. della Sper. Agr. (n.s.)4:647-665. Ref. 1950. 16 An76  
English summary.
- 619 DAHLGREN, K. V. O. The development in Sweden of botanical cytology and embryology. In Fries, R. E. A short history of botany in Sweden, p.79-100. Ref. Uppsala, Almqvist & Wiksell, 1950. 452.6 F91
- 620 DARK, S. O. S. The cytology of the hop; a critical review of published work. Wye Col. Dept. Hop Res. Rpt. 1949:48-54. Ref. May 1950. 70.9 W972
- 621 DUNCAN, R. E., and MACLEOD, R. A. The chromosomes of *Paphiopedilum sublaeve*. Amer. Orchid Soc. B. 19:489-492. Sept.1950. 80 Am329
- 622 FERNANDES, A. Le problème de l'hétérochromatinisation chez *Narcissus bulbocodium* L. Soc. Broteriana. B. (ser.2)23:5-88. Ref. 1949. 451 C66
- 623 FERNANDES, A. Sur la caryosystématique de la section *Ganymedes* (Salisb.) Schult. F. du genre *Narcissus* L. Soc. Broteriana. B. (ser.2)23:177-218. Ref. 1949. 451 C66
- 624 FLACHS, K. Sonderheiten in der blattstellung und im blattbau der australischen flora. Naturwiss. Rundschau 3:398-403. Sept.1950. 474 N216
- 625 GAISER, L. O. Chromosome numbers in *Liatris*. II. Graminifoliae and Pauciflorae. Amer. J. Bot. 37:414-423. Ref. June 1950. 450 Am36
- 626 GALINAT, M. Observations sur le tégument des graines. Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22: 298-306. (To be cont.) Mar.1950. 410.9 P213
- 627 GRANT, V. The protection of the ovules in flowering plants. Evolution 4:179-201. Ref. Sept.1950. 443.8 Ev62
- 628 GUÉRIN, H. P. Contribution à l'étude du fruit et de la graine des palmiers. Ann. des Sci. Nat. Bot. et Biol. Vég. (ser.11,1949)10:21-69. June 1950. 450 An75
- 629 GUILLAUMIN, A. Formes de jeunesse des conifères de Nouvelle-Calédonie d'après les documents de l'Herbier du Muséum de Paris. Notulae System. 14:37-43. Feb.1950. 452 L493
- 630 GUILLAUMIN, A. A propos des chimères. Ann. des Sci. Nat. Bot. et Biol. Vég. (ser.11,1949)10:1-19. June 1950. 450 An75
- 631 GYÖRFFY, I. Die entwicklungsgeschichte des von Herrn W. Meijer gesammelten abnormen exemplares von *Physcomitrium piliforme*. Buxbaumia 4:57-60. July 1950. 450 B98
- 632 ITIE, G. Aprenda a conocer el cocotero. Tierra [Mexico] 5:468-470. Sept.1950. 8 T445  
Morphology.
- 633 JANSSONIUS, H. H. The vessels in the wood of Javan mangrove trees. Blumea 6:465-469. Apr.3, 1950. 450 B62
- 634 JENSEN, P. B. Untersuchungen über determinat und differenzierung. I. Über den nachweis der zellulosenbildner und über das vorkommen und die lage derselben in wurzelhaaren und trichoblasten. Danske Vidensk. Selsk. Biol. Meddel. 18(10), 18 p. Ref. 1950. 442.9 D23  
English summary.
- 635 JOHNSON, M. A. Growth and development of the shoot of *Gnetum gnemon* L. I. The shoot apex and pith. Torrey Bot. Club. B. 77:354-367. Ref. Sept./Oct. 1950. 451 T63B
- 636 KAMENICKY, K. The morphological and biological abnormalities of fruits observed in Czechoslovakia in the year 1949. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:635-652. 1950. 19.5 C332C  
English summary.
- 637 KLÛCHAREVA, M. V. Colored plastids of tomatoes. (In Russian.) Agrobiologičeskij 1950(3):146-148. May/June 1950. 20 Ag822
- 638 KOBAYASI, Y. Mimicry and deformation of fungus fruitbodies by superparasitism among fungi. 2. (In Japanese.) J. Jap. Bot. 25:69-72, 107, 111. May-June 1950. 450 J8223  
English summary.
- 639 KUCHAR, K. Plasmolyseformverlauf und trichomzerfall bei zwei Oscillatorien. Phytion 2:213-222. Ref. July 3, 1950. 450 P565
- 640 KUPKA, E. Mitosebeeinflussung durch pyronin. Rev. Suisse de Zool. 57:611-619. Ref. July 1950. 410 R324  
In onion root tips.
- 641 KÜSTER, E. Beiträge zur kenntnis der kutikula, insbesondere der einiger haare. Phytion 2:51-56. Ref. July 3, 1950. 450 P565  
Kirengeshoma palmata.
- 642 LEBÈGUE, A. Le développement de l'embryon et la différenciation de l'hypophyse chez le *Draba verna* L. Soc. Bot. de France. B. 97:103-105. Apr./June 1950. 451 F84B
- 643 LEUPOLD, U. Die vererbung von homothallie und heterothallie bei *Schizosaccharomyces pombe*. Lab. Carlsberg. Compt. Rend. des Trav. Ser. Physiol. 24:381-480. Ref. 1950. 390.9 C19A  
English summary.
- 644 LOVE, R. M. Estudos citológicos preliminares de trigos rio-grandenses [Preliminary cytological studies of Rio Grande wheats]. Rio Grande do Sul. Sec. de Estado dos Negócios da Agr. Indús. e Com. C. 74, 14 p. 1949. 9.2 R473C  
English summary.



- 645 MAEKAWA, F. Leaf classes and leaf phases. (In Japanese.) J. Jap. Bot. 25:97-102. June 1950. 450 J8223  
English summary.
- 646 MANIL, P. Tumeurs végétales. Gembloux. Inst. Agron. de l'État B. 17:26-42. Ref. 1948/1949. 105.1 G285.
- 647 MEHRA, P. N., and KHANNA, A. L. Embryology of *Sewardiella tuberifera* Kash. Bot. Gaz. 112:31-42. Sept. 1950. 450 B652
- 648 MEIJER, W. Hoge sporogonia of *Funaria fasciculari* and *Physcomitrium piriforme*. (In Dutch.) Buxbaumia 4:55-56. July 1950. 450 B98
- 649 MIMEUR, G. Contribution au catalogue chromosomique des Graminées prairiales. Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22:130. Jan. 1950. 410.9 P213  
Brachypodium spp.; Antephora elegans.
- 650 MITRA, G. C. Origin, development, and morphology of the intrapetiolar stipules of *Ervatamia divaricata*. Bot. Gaz. 112:106-112. Ref. Sept. 1950. 450 B652
- 651 MONEY, L. L., BAILEY, I. W., and SWAMY, B. G. L. The morphology and relationships of the Monimiaceae. Arnold Arboretum. J. 31:372-404. Ref. Oct. 1950. 451 Ar6J
- 652 MOROZOV, P. V. Formation of embryonic roots in the hybrid seed embryo of spring wheat. (In Russian.) Selek. i Semen. 17(5):28-35. May 1950. 61.9 Se5
- 653 OLBERG, G. Eine lebende saugpumpe. Orion 5:608-611. Aug. 1950. 474 Or4  
Utricularia.
- 654 ONAKA, F., and HARADA, H. The micellar orientation in the secondary wall of coniferous tracheid. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:151-152. Apr. 25, 1950. 99.8 N62
- 655 OPPENHEIMER, H. R. La détermination de l'ouverture stomatique chez la tomate. Palestine J. Bot. Rehovot Ser. 7:63-68. Dec. 1949. 450 P172
- 656 PITOT, A. Sur la structure anatomique du rhizophore de *Rhizophora racemosa* G. F. W. Mey. Rev. Internat. de Bot. Appl. d'Agr. Trop. 30:433-434. July/Aug. 1950. 26 R323
- 657 POPHAM, R. A., and CHAN, A. P. Zonation in the vegetative stem tip of *Chrysanthemum morifolium* Bailey. Amer. J. Bot. 37:476-484. Ref. June 1950. 450 Am36
- 658 RAMSEY, C. T. The triggered rostellum of the genus *Listera*. Amer. Orchid Soc. B. 19:482-485. Sept. 1950. 80 Am329
- 659 RAPER, K. B. Stalk formation in *Dictyostelium*. (Abs.) Science 112:450. Oct. 20, 1950. 470 Sci2
- 660 RAU, M. A. The suspensor haustoria of some species of *Crotalaria* Linn. Ann. Bot. [London] (n.s.)14: 557-562. Oct. 1950. 450 An7
- 661 RIZZINI, C. T. *Phoradendron fragile* Urb. (In Portuguese.) Rev. Bras. de Biol. 10:45-58. May 1950. 442.8 R326
- 662 ROSENE, H. F. Ageing and the influx of water into radish root-hair cells. J. Gen. Physiol. 34:65-73. Ref. Sept. 20, 1950. 447.8 J822
- 663 SCHINDLER, H., and TOTH, A. Zur anatomie des blattes von *Coelogyne flaccida*. Phytion 2:11-22. Ref. July 3, 1950. 450 P565
- 664 SCHWANITZ, F. Untersuchungen an polyploiden pflanzen. IX. Über den gehalt der blätter diploider und tetraploider gartenstiefmütterchen (*Viola tricolor maxima hort.*) an calciumoxalatdrusen. Züchter 20:208-209. Ref. 1950. 442.8 Z8
- 665 SCOTT, F. I. Polyploidy among plant species extraneous in Indiana. Butler U. Bot. Studies 9:176-187. Ref. May 1950. 451 B97
- 666 SMITH, H. H. Developmental restrictions on recombination in *Nicotiana*. Evolution 4:202-211. Sept. 1950. 443.8 Ev62
- 667 SÖLLNER, R. Polyploidie intraspécifique chez *Cerastium arvense* L. et nombres chromosomiques de quelques autres *Cerastium*. Experientia 6:335-337. Sept. 15, 1950. 475 Ex7
- 668 STOKEY, A. G. The gametophyte of the Gleicheniaceae. Torrey Bot. Club. B. 77:323-339. Ref. Sept./Oct. 1950. 451 T63B
- 669 THERMAN, E. Chromosome numbers in American *Polygonatum* species. Amer. J. Bot. 37:407-413. Ref. June 1950. 450 Am36
- 670 TURJANSKII, G. F. Extra-bud formation of inflorescences in grapes. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):17-19. July 1950. 95.8 V77
- 671 VAARAMA, A. Cases of asyndesis in *Matri-caria inodora* and *Hyoscyamus niger*. Hereditas 34:342-362. Ref. 1950. 442.8 H42
- 672 VAN FLEET, D. S. The cell forms, and their common substance reactions, in the parenchyma-vascular boundary. Torrey Bot. Club. B. 77:340-353. Ref. Sept./Oct. 1950. 451 T63B
- 673 VENKATASUBRAN, K. R. Studies in the Droseraceae. I-II. Indian Acad. Sci. Proc. Sect. B 31: 308-330; 32:23-38. Ref. June-July 1950. 513 In25B
- 674 WARDLAW, C. W. Experimental and analytical studies of Pteridophytes. XVI. The induction of leaves and buds in *Dryopteris aristata* Druce. Ann. Bot. [London] (n.s.)14:435-455. Ref. Oct. 1950. 450 An7
- 675 WARDROP, A. B., and DADSWELL, H. E. The nature of reaction wood. II. The cell wall organization of compression wood tracheids. Austral. J. Sci. Res. Ser. B: Biol. Sci. 3:1-13. Feb. 1950. 442.8 Au72
- 676 WEBER, H. Gramineenstudien. III. Neue beobachtungen über die kriechsprosse von *Phragmites communis trinius*. Biol. Zentbl. 69:323-334. Ref. 1950. 442.8 B523
- 677 WILSON, C. L. Vasculation of the stamen in the Melastomaceae, with some phyletic implications. Amer. J. Bot. 37:431-444. Ref. June 1950. 450 Am36
- 678 ZACHA, V. The morphological modifications on the mycelium of *Alternaria porri* f. *solan* Neerg., caused by a certain antagonistic microorganism. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:675-680. 1950. 19.5 C332C  
English summary.

## GENETICS

- 679 BACKUS, E. J. The occurrence and induction of mutations in the fungi. N. Y. Acad. Sci. Trans. (ser.2) 12:270-275. Ref. June 1950. 500 N484T
- 680 BLAIN, A. Survie différentielle de *Corytholoma* (Gesnériacées) à noeuds trifoliés observée dans les progénitures des croisements réciproques de *C. splendens* (Van Houtte) Fritsch x *C. cardinalis* (Lehm.) Fritsch. Assoc. Canad.-Franç. pour l'Avanc. des Sci. 16:143-147. 1950. 517 M76
- 681 BUZIN, N. P. On changing fruit-bearing of grape-vines. (In Russian.) Agrobiologičeskij 1950(3):104-108. May/June 1950. 20 Ag22
- 682 CONDIT, I. J. An interspecific hybrid in *Ficus*. J. Hered. 41:165-168. June 1950. 442.8 Am3  
*Ficus pumila* x *Ficus carica*.
- 683 DALBRO, K. Colchicin-induced chromosome-doubling in horticultural plants. Denmark. Vet.-og Landbohøjsk. Årsskr. 1950:204-230. Ref. 104 D41A
- 684 DEERING, F. J. Hybrid corn breeders seek answers from strange places. Farmer-Stockman 53, i.e. 63(10):10, 22. Oct. 1950. 6 Ok45
- 685 DILLEMANN, G. L'examen du pollen et la reconnaissance des hybrides naturels. Soc. Bot. de France. B. 97:98-99. Apr./June 1950. 451 F84B
- 686 DROST, J. C. Breve descripción de las principales actividades del Instituto para el Mejoramiento de las Plantas de Gran Cultivo, en Wageningen, Holanda. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(10):13-18. Apr. 1950. 9 Ar35
- 687 EDLUND, A. The Porsö farm—the outpost of plant breeding in the north. (In Dutch.) Lantmannen 34: 690-692. Sept. 9, 1950. 11 L234
- 689 EMERSON, R. A., and SMITH, H. H. Inheritance of number of kernel rows in maize. N. Y. (Cornell) Agr. Expt. Sta. Mem. 296, 30 p. Ref. Sept. 1950. 100 N48C
- 689 FALCK, R. Lysenko's theory of the variable gene viewed in relation to the life-sphere system of fungus taxonomy. Palestine J. Bot. Rehovot Ser. 7:126-134. Dec. 1949. 450 P172
- 690 FALCK, R. The types of symbiotic linkage and their significance for the formation of highly organized forms, functions and life-spheres in the phylogenetic process of development. Palestine J. Bot. Rehovot Ser. 7: 1-16. Ref. Dec. 1949. 450 P172



- 691 FIEDLER, J. The importance of crossing for the plant selection. (In Czech.) Českoslov. Akad. Země-  
děl. Sborn. 22:559-563. 1950. 19.5 C332C  
English summary.
- 692 FORLANI, R. A hybrid of *Aegilops ovata*  
*Secale cereale*. (In Italian.) Ann. della Sper. Agr. (n.s.)  
4:561-567. Ref. 1950. 16 An76  
English summary.
- 693 FORLANI, R. Hybridization between species  
and genera of Gramineae. (In Italian.) Ann. della Sper.  
Agr. (n.s.)4:537-560. Ref. 1950. 16 An76  
English summary.
- 694 GERSTEL, D. U., and MISHANEC, W. On the  
inheritance of apomixis in *Parthenium argentatum*. Bot.  
Gaz. 112:96-106. Ref. Sept.1950. 450 B652
- 695 GREBENŠČIKOV, I. Zur kenntnis der kürbis-  
art *Cucurbita pepo* L. nebst einigen angaben über  
Ölkürbis. Züchter 20:194-207. Ref. 1950. 442.8 Z8
- 696 HAAN, H. DE. The effect of Mendelism on  
plant breeding. (In Dutch.) Nieuwe Veldbode 16:788-789.  
Sept.7,1950. 12 V542N
- 697 HAKANSSON, A., and ELLERSTRÖM, S. Seed  
development after reciprocal crosses between diploid and  
tetraploid rye. Hereditas 34:256-296. Ref. 1950.  
442.8 H42
- 698 HÄRER, L. Die vererbung des blüthalters  
früher und später zusammenjähriger rassen von *Arabi-*  
*dopsis thaliana* (L.) Heynh. Beitr. z. Biol. der Pflanz. 28:  
1-35. Ref. 1950. 450 C66
- 699 HRADIL, J. Inzucht und ihre folgen. Landfrau  
5(9):9. Sept.1950. 18 L2337  
Plants and animals.
- 700 IAKOVLEV, P. N. From the creative legacy  
of I. V. Michurin. (In Russian.) Agrobiologičeskii žurnal  
1950(3): 38-44. May/June 1950. 20 Ag822  
Fruit hybrids.
- 701 IUDANOV, I. M. Intervarietal crossing as an  
effective method for increasing wheat productivity. (In  
Russian.) Selek. i Semen. 17(5):23-28. May 1950.  
61.9 Se5
- 702 JULEN, G. Breeding of polyploids in Sweden.  
Internatl. Grassland Cong. Rpt. 5:86-88. 1949.  
60.19 In85R
- 703 KARAPETIAN, V. K. Changing hard wheats  
into soft ones. (In Russian.) Selek. i Semen. 17(6):8-13.  
June 1950. 61.9 Se5
- 704 KHAN, A. R. Correlation studies in gram  
(*Cicer arietinum*). Pakistan J. Sci. Res. 1:104-109.  
July 1949. 475 P173
- 705 KOSIKOV, K. V. Controlled variability of  
fermentative properties of yeasts under the influence of  
preparations obtained from related strains. (In Russian.)  
Akad. Nauk SSSR. Dok. 73:381-384. July 11,1950.  
511 P444A  
Experiments with *Saccharomyces globosus* and *S.*  
*ellipsoideus*.
- 706 KUCKUCK, H., and MUDRA, A. Lehrbuch  
der allgemeinen pflanzenzüchtung. Zürich, Hirzel, 1950.  
280 p. (Landwirtschaftliche Wissenschaft; eine Lehr-  
buchreihe für Studium und Praxis. Bd. 3) 463.6 K95L
- 707 LAZAREVA, A. G. In regard to the role of  
vegetative approach in interspecific hybridization of po-  
tatoes. (In Russian.) Selek. i Semen. 17(5):39-45. May  
1950. 61.9 Se5
- 708 LINDEGREN, C. C., and SUMNER, R. J. The  
selective hybridization of yeast. Baker's Digest 24(5):  
27-29. Oct.1950. 389.8 S11
- 709 LISJUTINA, N. I. Interspecific grafting of  
potatoes. (In Russian.) Selek. i Semen. 17(7):51-55.  
July 1950. 61.9 Se5
- 710 LONNQUIST, J. H. The effect of selection for  
combining ability within segregating lines of corn.  
Agron. J. 42:503-508. Oct.1950. 4 Am34P
- 711 MIDDLETON, G. K., and HEBERT, T. T.  
Purple straw color in relation to kernel weight in wheat.  
Agron. J. 42:520. Oct.1950. 4 Am34P
- 712 MOEWUS, F. Zur genetik und physiologie der  
kern- und zellteilung. II. Über den synchronismus der  
kernteilungen bei *Protosiphon botryoides*. Beitr. z. Biol.  
der Pflanz. 28:36-63. Ref. 1950. 450 C66
- 713 MÜNTZING, A. The development of botanical  
genetics in Sweden. In Fries, R. E. A short history of  
botany in Sweden, p.101-113. Uppsala, Almqvist & Wik-  
sell, 1950. 452.6 F91
- 714 NIKITENKO, G. F. Intravarietal and intervari-  
etal vegetative hybridization as a method for obtaining  
improved selected seeds of oats and barley. (In Russian.)  
Selek. i Semen. 17(5):35-39. May 1950. 61.9 Se5
- 715 NOHARA, Y., ZINNO, Y., and ITO, Y. Re-  
searches on the heredity of trees. III-IV. (Abs.) (In  
Japanese.) Jap. Forestry Soc. J. 32:103-104. Apr.25,  
1950. 99.8 N62  
III, On the heredity of seeding of the hybrid F<sub>2</sub> between  
Hinoki and Sawara, by Y. Nohara, and Y. Zinno; IV, On  
the artificial crossing of inland Akamatsu and foreign  
Teidamatsu, by Y. Nohara, Y. Zinno, and Y. Ito.
- 716 NYBOM, N. Studies on mutations in barley. I.  
Superdominant factors for internode length. Hereditas 34:  
321-328. Ref. 1950. 442.8 H42
- 717 PESMAN, M. W. Plant miracle drug: colchi-  
cine. Green Thumb 7(10):23-24. Oct.1950. 80 G82  
Its use in plant breeding.
- 718 POGOSIAN, S. A. Development of seedlings of  
grape varieties on their own rootstocks and their hybrids.  
(In Russian.) Agrobiologičeskii žurnal 1950(3):87-103. May/June  
1950. 20 Ag822
- 719 POPOV, V. V. Hybridization of cork oak  
[*Quercus suber*] by I. V. Michurin's method. (In Russian.)  
Lesn. Khoz. 3(2):54-57. Feb.1950. 99.8 L562
- 720 RIZET, G., and DELANNOY, G. Sur la pro-  
duction, par des hétérozygotes monofactoriels de *Podo-*  
*spora anserina*, de gamétophytes phénotypiquement  
différents des gamétophytes parentaux. Paris. Acad. des  
Sci. Compt. Rend. 231:588-590. Sept.18,1950. 505 P21
- 721 TSEBRIL, M. P. Intergeneric hybridization of  
grapes. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):  
16-17. July 1950. 95.8 V77
- 722 WIEBOSCH, W. A. Changing the degree of  
vernalization as an aid to plant breeding. (In Dutch.)  
Netherlands. Dir. van de Tuinbouw. Meded. 13:593-607.  
Ref. Aug./Sept.1950. 86 N384  
English summary.

## PHYSIOLOGY

- 723 ÅBERG, B. Short notes on the history of plant  
physiology in Sweden. In Fries, R. E. A short history of  
botany in Sweden, p.114-131. Uppsala, Almqvist & Wik-  
sell, 1950. 452.6 F91
- 724 AGINIAN, A. A. Vernalization of [wheat] seeds  
in relation to their embryonic development. (In Russian.)  
Agrobiologičeskii žurnal 1950(3):57-66. May/June 1950. 20 Ag822
- 725 ALGERIA. SERV. DE LA PROTECTION DES  
VÉGÉTAUX. Généralités sur les substances de crois-  
sance et leur emploi en agriculture, [par] P. Frezal.  
Alger, Imbert, 1950. 92 p. 90.11 AL3
- 726 ALLEN, N. S., WILSON, G. B., and POWELL,  
S. Comparative effects of colchicine and sodium  
nucleate on somatic chromosomes of *Allium* and *Tradescantia*. J. Hered. 41:159-163. Ref. June 1950.  
442.8 Am3
- 727 AMATO, F. D'. Notes on the chromosome  
breaks induced by pure gammexane. Caryologia 2:361-  
364. 1950. 442.8 C25
- 728 ARZT, T. Mikroklimatische untersuchungen  
über windschutz in einem kulturpflanzenbestand. Phytol  
2:157-181. July 3,1950. 450 P565
- 729 ASKEW, H. O. Some aspects of boron deficien-  
cy in plants. Cawthron Inst. P. 96,6 p. July 1949.  
23 C31P
- 730 BASTISSE, E. M. Influence de l'ion silicique  
sur le maintien en solution et l'absorption de l'ion phos-  
phorique par les plantes. Paris. Acad. des Sci. Compt.  
Rend. 231:586-587. Sept.18,1950. 505 P21
- 731 BATTAGLIA, E. Cytological effects of sodium  
dextroxyribonucleate, ribonucleic acid, and sodium ribonu-  
cleate. (In Italian.) Caryologia 2:325-338. Ref. 1950.  
442.8 C25  
English summary.  
Effects on onion root tips.
- 732 BEAUCHAMP, C. E. Effects of 2,4-D on sugar  
content of sugar cane. Sugar J. 13(5):57-62,64,66,68,70,  
72. (To be cont.) Oct.1950. 65.8 Su391
- 733 BEESON, K. C., and GREGORY, R. L. Report  
on copper and cobalt in plants. Assoc. Off. Agr. Chem.  
J. 33:819-827. Aug.15,1950. 381 As7



- 734 BEIDEMAN, I. N. Experiment in drawing a map of the intensity of plant transpiration. (In Russian.) Bot. Zhur. 35:40-45. Jan./Feb.1950. 451 R923
- 735 BENEDICT, H. M. Factors affecting the accumulation of rubber in seedling guayule plants. Bot. Gaz. 112:86-95. Ref. Sept.1950. 450 B652
- 736 BENNE, E. J., and JOHNSTON, B. R. Report on carotene and zinc in plant tissue. Assoc. Off. Agr. Chem. J. 33:828-830. Aug.15,1950. 381 As7
- 737 BERDUCOU, J. Différence de sensibilité de *Nectria galligena* et de *Nectria cinnabarina* à l'action de l'acide indol- $\beta$ -acétique. Paris. Acad. des Sci. Compt. Rend. 231:367-369. July 31, 1950. 505 P21
- 738 BERTON, A. Note sur la phyllotaxie de l'inflorescence de l'*Anemone narcissiflora*. Soc. Bot. de France. B. 96:129. 1949. 451 F84B
- 739 BERTRAND, G. Sur un cas de télétoxie récemment mis à jour. Acad. d'Agr. de France. Compt. Rend. 36:466-468. June 21/28,1950. 14 P215Bc  
Includes discussion.
- 740 BLANCHARD, F. A., and DILLER, V. M. Technique for growing plants with roots in a sterile medium. Plant Physiol. 25:767-769. Oct.1950. 450 P692
- 741 BLANCHARD, L. E. Plant reactions to chemical and physical changes. Roy. Hort. Soc. J. 75:390-396. Oct.1950. 84 L84J
- 742 BLONDEAU, R., and CRANE, J. C. Preliminary experiments on hormones to hasten maturity of fig fruits. Calif. Fig Inst. Proc. Annu. Res. Conf. 3:10-11. 1949. 93.44 C122P
- 743 BLUE, W. G. Some physiological roles of soil fertility in the synthesis of nitrogenous compounds by plants. Mich. U. Microfilm Abs. 10(3):237-238. 1950. 241.8 M58
- 744 BOER, S. DE. Growth substances and their application in horticulture. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:656-671. Ref. Aug./Sept.1950. 86 N384  
English summary.
- 745 BONDAREV, V. P. Biological evaluation of seed material. (In Russian.) Selekt. i Semen. 17(5):5-10. May 1950. 61.9 Se5  
Field crops.
- 746 BOSWELL, J. G. Metabolic systems in the 'root' of *Brassica napus* L. Ann. Bot. [London] (n.s.) 14: 521-543. Ref. Oct.1950. 450 An7
- 747 BOWMAN, F. T., and DAVISON, J. R. Pre-harvest drop of D'Agen prunes on the Murrumbidgee Irrigation Areas; the results of investigations, 1941-49. Agr. Gaz. N. S. Wales 61:361-364. (Concl.) July 1,1950. 23 N472
- 748 BOYNTON, D., and others. Responses of McIntosh apple orchards to varying nitrogen fertilization and weather. N. Y. (Cornell) Agr. Expt. Sta. Mem. 290, 35 p. Aug.1950. 100 N48C  
A. B. Burrell, R. M. Smock, O. C. Compton, J. C. Cain, and J. H. Beattie, joint authors.
- 749 BREMER, A. H. How to exploit in practice the reaction of onion (*Allium cepa*) to different day lengths. (In Norwegian.) Norges Landbrhøgsk. Meld. 30:185-206. 1950. 104 N762M  
English summary.
- 750 BRENNAN, E. G., LEONE, I. A., and DAINES, R. H. Fluorine toxicity in tomato as modified by alterations in the nitrogen, calcium, and phosphorus nutrition of the plant. Plant Physiol. 25:736-747. Ref. Oct.1950. 450 P692
- 751 BRISLEY, H. R., and JONES, W. W. Sulphur dioxide fumigation of wheat with special reference to its effect on yield. Plant Physiol. 25:666-681. Oct.1950. 450 P692
- 752 BRUNE, W. A simple aerator for nutrient solutions. (In Portuguese.) Rev. Ceres 8:233-236. Jan./June 1950. 9.2 C332
- 753 BUCK, L. J. Association of plants and minerals. Prof. Gard. 2:216-217. Sept.1950. 80 P945
- 754 BUDAGOVSKI, V. I. Effect of excessive soil moisture on growth of root system of dwarf apple rootstocks. (In Russian.) Akad. Nauk SSSR. Dok. 72:1147-1150. June 21,1950. 511 P444A
- 755 CALVINO, E. M. Abortion of the spike in *Gladiolus*. (In Italian.) Riv. della Ortoflorofruttic. Ital. 34:130-133. July/Aug.1950. 86 R22
- 756 CAMARA, A. Germination of a grain of wheat. (In Portuguese.) Agros [Lisboa] 33:43-50. Mar./Apr. 1950. 15.5 Ag82
- 757 CATALINA, L. La hosterfa de la buena tierra. Cult. Mod. 33:257. July 1950. 15 C89  
Plant physiology.
- 758 CAWTHRON INSTITUTE. Studies in plant nutrition. Annual report for 1949-50. Cawthron Inst. B. 58,1 p. 1950. 23 C31B
- 759 CHAN, A. P. The development of crown and terminal flower buds of *Chrysanthemum morifolium*. Chrysanthemum Soc. Amer. B. 18(4):53-57. Oct.1950. 81 C46B
- 760 CHERNENKO, E. S. Chlorophyll content in apple and cabbage leaves of different early-ripening varieties. (In Russian.) Akad. Nauk SSSR. Dok. 73:401-404. Ref. July 11,1950. 511 P444A
- 761 CHILDS, J. F. L. The cachexia disease of Orlando tangelo. Plant Dis. Rptr. 34:295-298. Oct.15, 1950. 1.9 P69P
- 762 CHIRIKOV, F. F. Daily variation in essential oil formation in mint. (In Russian.) Akad. Nauk SSSR. Dok. 73:405-407. July 11,1950. 511 P444A
- 763 CIFERRI, R., SCARAMUZZI, G., and VIDALI, A. Preliminary investigation on the germination of sugar beet seeds treated with fungicides and insecticides. (In Italian.) Not. sulle Mal. delle Pianta 10:45-52. Ref. May/June 1950. 464.8 N84
- 764 CLAASSEN, C. E., EKDAHL, W. G., and SEVERSON, G. M. The estimation of oil percentage in safflower seed and the association of oil percentage with hull and nitrogen percentages, seed size, and degree of spininess of the plant. Agron. J. 42:478-482. Oct.1950. 4 Am34P
- 765 COHEN, A. The manganese content of Shamouti orange leaves. Palestine J. Bot. Rehovot Ser. 7: 85-93. Ref. Dec.1949. 450 P172
- 766 COMBES, R., and others. Contribution à l'étude du mécanisme d'action du milieu extérieur sur la morphogénèse. Paris. Acad. des Sci. Compt. Rend. 231: 313-316. July 31,1950. 505 P21  
J. Crépét, P. Binet, and R. Féjard, joint authors.
- 767 CRANE, J. C. The fruiting habit of the fig. Calif. Fig Inst. Proc. Annu. Res. Conf. 4:40-42. 1950. 93.44 C122P
- 768 CRANE, J. C., and BLONDEAU, R. The use of hormone sprays as a substitute for caprification and a comparison of "seedless" and caprified *Calimyrna* figs. Calif. Fig Inst. Proc. Annu. Res. Conf. 4:5-9. 1950. 93.44 C122P
- 769 CRANE, J. C., and BLONDEAU, R. Use of hormones as a substitute for caprification in the production of *Calimyrna* figs. Calif. Fig Inst. Proc. Annu. Res. Conf. 3:11-14. 1949. 93.44 C122P
- 770 DADYKIN, V. P. Effect of temperature in the root area on development of spike in barley and oats. (In Russian.) Akad. Nauk SSSR. Dok. 72:1155-1157. June 21,1950. 511 P444A
- 771 DADYKIN, V. P. Equipment and method for studying the effect of low soil temperatures on plants. (In Russian.) Vsesoifn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(7):36-42. Ref. 1950. 20 Ak1
- 772 DAGLEY, S., DAWES, E. A., and MORRISON, G. A. Factors influencing the early phases of growth of *Aerobacter aerogenes*. J. Gen. Microbiol. 4:437-447. Ref. Sept.1950. 448.3 J823
- 773 DAKOV, M. P. Effect of geographic origin of acorns on growth and vital resistance of oak [*Quercus*]. (In Russian.) Lesn. Khoz. 3(3):25-29. Mar.1950. 99.8 L562
- 774 DAMAST, J. Z. Properties of the apple fruit grown under different environmental conditions. Palestine J. Bot. Rehovot Ser. 7:103-112. Ref. Dec.1949. 450 P172
- 775 DENFFER, D. VON, and GRÜNDLER, H. Über wuchsstoffinduzierte blühemmung bei langtagpflanzen. Biol. Zentbl. 69:272-282. 1950. 442.8 B523
- 776 DE ROPP, R. S. Some new plant-growth inhibitors. Science 112:500-501. Oct.27,1950. 470 Sci2
- 777 DETERT, E. R. Die bedeutung der pflanzenwuchshormone für landwirtschaft und gartenbau. Obstbau 69:123-125. Aug.1,1950. 80 Ob73
- 778 DICKEY, R. S., and ARK, P. A. Investigations concerning injury in tomato seeds treated with mercurials. (Abs.) Phytopathology 40:964. Oct.1950. 464.8 P56



- 779 DICKEY, R. S., and ARK, P. A. Studies on penetration of mercury into tomato seeds. (Abs.) *Phytopathology* 40:965. Oct.1950. 464.8 P56
- 780 DILLEWIJN, C. VAN. Tillering of cane. *Sugar J.* 13(5):38-39,42-48. Ref. Oct.1950. 65.8 Su391
- 781 DOLCHER, T. On the caryological constitution of differentiated tissues of the Leguminosae. (In Italian.) *Caryologia* 2:339-360. Ref. 1950. 442.8 C25  
English summary.  
Study of sweet-pea and lentil.
- 782 EATON, F. M. Physiology of the cotton plant. In *Advances in agronomy*, v.2, p.11-25, 74-76. Ref. New York, Acad. Press, 1950. 30 Ad9
- 783 EGLÉ, K. Über das pigment von *Anthurus aseroeformis* Mac Alpine. *Planta* 38:233-243. Ref. 1950. 450 P693
- 784 EGLER, F. E. Herbicide effects in Connecticut vegetation, 1949. *Bot. Gaz.* 112:76-85. Sept.1950. 450 B652
- 785 EHRENBURG, M. Beziehungen zwischen fermenttätigkeit und blattbewegung bei *Phaseolus multiflorus* unter verschiedenen photoperiodischen bedingungen. *Planta* 38:244-279. Ref. 1950. 450 P693
- 786 EJSING, G. Magnesium deficiency in apple plantings. (In Danish.) *Gart. Tid.* 66:411-412. Sept.13, 1950. 80 G192
- 787 ELIZONDO, G. Deficiencia de elementos nutritivos en los cítricos. *Campo [Tacuba] (ser.2)* 18(701): 35,37-39. July 31, 1950. 8 C157
- 788 EMERSON, S. The growth phase in *Neurospora* corresponding to the logarithmic phase in unicellular organisms. *J. Bact.* 60:221-223. Sept.1950. 448.3 J82
- 789 ERMOLAEVA, E. IA. Effect of change in natural duration of day on development of *Perilla ocy-moides*. (In Russian.) *Akad. Nauk SSSR. Dok.* 72:1159-1161. Ref. June 21, 1950. 511 P444A
- 790 EVANS, H. J., PURVIS, E. R., and BEAR, F. E. Molybdenum nutrition of alfalfa. *Plant Physiol.* 25:555-566. Ref. Oct.1950. 450 P692
- 791 EYSTER, H. C. Catalase activity in chloroplast pigment deficient types of corn. *Plant Physiol.* 25: 630-638. Oct.1950. 450 P692
- 792 FABRICATORE, J. A. Action of cold on grape-vine leaves. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4: 667-673. 1950. 16 An76  
English summary.
- 793 FISHER, V. J. The effect of various foliar sprays on the size and composition of the fruit and on the rate of respiration of the leaves of the red cherry (*Prunus cerasus* L.). *Mich. U. Microfilm Abs.* 10(3): 120-121. 1950. 241.8 M58
- 794 FÖRSTER, K. Gewebespannung und luftblasenbildung bei *Fucus*. *Planta* 38:280-295. Ref. 1950. 450 P693
- 795 FOX, L. The Texas Soil Conservation Service takes us inside a Federal seed laboratory. *Seed World* 67(8):36-38. Oct.20, 1950. 61.8 Se52
- 796 FREZAL, P. Principaux cas de jaunissement du vignoble. *Rev. Agr. de l'Agrique du Nord* 48:634-638. Aug.25, 1950. 80 R326  
Chlorosis.
- 797 FRIES, N. Selective isolation of guanine-deficient mutants in *Ophiostoma*. (Abs.) *Hereditas* 34:368-370. 1950. 442.8 H42
- 798 FRIESNER, R. C. Growth-rainfall trend coefficients shown by six species of hardwoods in Brown County, Indiana. *Butler U. Bot. Studies* 9:159-166. May 1950. 451 B97
- 799 GAUSSEN, H. Les conditions climatiques aux Pyrénées centrales et les étages de végétation. *Soc. Bot. de France. B.* 96:16-20. 1949. 451 F84B
- 800 GIGANTE, R. Anatomical irregularities in peach leaves induced by cold. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:675-691. Ref. 1950. 16 An76  
English summary.
- 801 GLOCK, W. S. Tree growth and rainfall—a study of correlation and methods. *Smithsn. Inst. Misc. Collect.* 111(18), 47 p. Oct.25, 1950. 500 Sm6M
- 802 GRIFFITHS, D. G., POTTER, N. A., and HULME, A. C. Data for the study of the metabolism of apples during growth and storage. *J. Hort. Sci.* 25:266-288. Ref. June 1950. 80 J825
- 803 GRIGGS, W. H., VANSELL, G. H., and REINHARDT, J. F. The germinating ability of quick-frozen, bee-collected apple pollen stored in a dry ice container. *J. Econ. Ent.* 43:549. Aug.1950. 421 J822
- 804 GRIGOR'EVA, V. G. On accumulation of starch in roots found in frozen soil. (In Russian.) *Akad. Nauk SSSR. Dok.* 72:1151-1153. June 21, 1950. 511 P444A
- 805 GUBLER, H. Experiments in hydroponic culture. *Austral. Crchid Rev.* 15:68, 72-74. Sept.1950. 80 Au73
- 806 GZYRIAN, M. S. Relationship between width of annual ring and porosity of wood in poplars [*Populus*]. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:183-186. July 1, 1950. 511 P444A
- 807 HAAAN, I. DE. Deficiency-symptoms on *Hevea brasiliensis*. (In Dutch.) *Arch. v. de Rubbercult.* 27:107-137. June 1950. 78.8 Ar2  
English summary.
- 808 HACKETT, D. P., and THIMANN, K. V. The action of inhibitors on water uptake by potato tissue. *Plant Physiol.* 25:648-652. Ref. Oct.1950. 450 P692
- 809 HAGAN, R. M. Soil aeration as a factor in water absorption by the roots of transpiring plants. *Plant Physiol.* 25:748-762. Ref. Oct.1950. 450 P692  
Tomatoes used in the experiment.
- 810 HAGERUP, O. Rain-pollination. *Danske Vidensk. Selsk. Biol. Meddel.* 18(5), 18 p. 1950. 442.9 D23
- 811 HAMNER, C. L., and others. Selective inhibition of the growth of green plants and fungi by beta methyl umbelliferone. *Bot. Gaz.* 112:135-137. Sept.1950. 450 B652  
H. M. Sell, W. Klomprens, and J. R. Vaughn, joint authors.
- 812 HARDING, P. L. Parathion in citrus sprays; effect early orange quality. *Fla. Grower* 58(10):6-7. Oct.1950. 80 F6622
- 813 HARTEL, O. Über wirkungen des "vitamin T" auf pflanzenphysiologische vorgänge. *Phyton* 2:182-192. Ref. July 3, 1950. 450 P565
- 814 HAUSER, W., and LANGER, E. Über den einfluss von saponinen auf das pflanzenwachstum. *Phyton* 2:110-123. Ref. July 3, 1950. 450 P565
- 815 HECK, W. W., and BAILEY, L. F. Chelation of trace metals in nutrient solutions. *Plant Physiol.* 25: 573-582. Ref. Oct.1950. 450 P692
- 816 HELSON, V. A., and MINSHALL, W. H. Further effects of herbicidal oils on the physiology of plants. *Canada. Natl. Weed Comt. East. Sect. Proc.* 3:19-20. June 1950. 79.9 C164
- 817 HENNER, J. Sonnenbrandschäden an weintrauben. *Pflanzenarzt* 3(9):5. Sept.1, 1950. 464.9 P482
- 818 HEYMANN-HERSCHBERG, L. Avena cylinder test of two synthetic growth promoters. *Palestine J. Bot. Rehovot Ser.* 7:124-125. Dec.1949. 450 P172
- 819 HEYMANN-HERSCHBERG, L. The effect of synthetic growth substances on the rooting of grape-vine cuttings. *Palestine J. Bot. Rehovot Ser.* 7:113-123. Ref. Dec.1949. 450 P172
- 820 HIGO, J. The effect of colchicine on root mitosis in *Cryptomeria japonica*. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:115. Apr.25, 1950. 99.8 N62
- 821 HODGSON, R. W., and WRIGHT, A. H. On the comparative resistance of citrus to low winter temperatures. *Calif. Citrog.* 35:502, 534, 536-539. Oct.1950. 80 C125
- 822 HOFFPAUIR, C. L. Report on starch in plants. *Assoc. Off. Agr. Chem. J.* 33:810-815. Aug.15, 1950. 381 As7
- 823 HOPKINS, H. T., and TOOLE, E. H. Effect of DDT on germination of certain seeds. *Bot. Gaz.* 112:130-132. Sept.1950. 450 B652
- 824 HYDE, E. O. C. Methods for determining the viability of various seeds by tetrazolium staining. I. *Chewing's fescue*. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 31:13-20. Ref. June 1949. 514 N48A
- 825 IINO, S. Shokubutsu no hassei (Generation of the plant). *Tokyo, Kawade Shobo*, 1950. 237 p. 463.38 Ii9
- 826 IOFFE, R. K. Utilization of freshly-harvested alfalfa seeds [for summer planting]. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(7):26-32. 1950. 20 Ak1  
Chiefly on germination.
- 827 ITO, E. On the drying process of seedlings of some conifers and their recovery from wilting. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:106-107. Apr.25, 1950. 99.8 N62



- 828 IUNOVIDOV, A. P. Some data on the blooming of Pinus. (In Russian.) Lesn. Khoz. 3(2):71-73. Feb. 1950. 99.8 L562
- 829 IVANOV, S. M., and IVANOVA, B. I. Effect of functional diseases of tung oil trees on their resistance to high and low temperatures. (In Russian.) Akad. Nauk SSSR. Dok. 72:1163-1165. June 21, 1950. 511 P444A
- 830 IWADE, I., FUKUZUMI, T., and YANAGAWA, R. Studies on the physiology of "Shitake" *Cortinellus edodes* (Berk.) Sawada. I. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:113-114. Apr. 25, 1950. 99.8 N62
- 831 JACOBONI, N. Rhizogenic stimuli and Kober 5 BB. (In Italian.) Agr. Nuova 2:308-314. June 1950. 16 Ag8223  
Grapes.
- 832 JACOBSON, L., and others. A study of potassium absorption by barley roots. Plant Physiol. 25:639-647. Ref. Oct. 1950. 450 P692  
R. Overstreet, H. M. King, and R. Handley, joint authors
- 833 JENSEN, P. B. Investigations on the growth and differentiation of tobacco tissue cultures in vitro. Danske Vidensk. Selsk. Biol. Meddel. 18(7), 10 p. Ref. 1950. 442.9 D23
- 834 JENSEN, P. B. En metodik til undersøgelse af landbrugsplanternes vandøkonomi og stofproduktion [A method for the investigation of the water economy and metabolism of crop plants]. Danske Vidensk. Selsk. Biol. Meddel. 18(6), 36 p. Ref. 1950. 442.9 D23
- 835 JUILLET, A., and TURQUOIS, J. Influence de produits anticaries sur le développement des semences de riz. Phytoma 3(18):7-17. Ref. (Concl.) July/Aug. 1950. 464.8 P563
- 836 KELLEY, A. P. Mycotrophy in plants; lectures on the biology of mycorrhizae and related structures. Waltham, Mass., Chron. Bot., 1950. 223 p. (New Ser. Plant Sci. Books. v. 22) 463.88 K28 M
- 837 KHOTIN, A. A. Accumulation of essential oil in peppermint [*Mentha piperita*] under influence of environmental conditions. (In Russian.) Akad. Nauk SSSR. Dok. 72:965-968. June 11, 1950. 511 P444A
- 838 KOEPESELL, H. J. Gluconate oxidation by *Pseudomonas fluorescens*. J. Biol. Chem. 186:743-751. Oct. 1950. 381 J824
- 839 KONDO, I. N. Role of suckers in speeding up the regeneration of grape bushes. (In Russian.) Agrobiologičeskaja 1950(3):109-117. May/June 1950. 20 Ag822
- 840 KONSTANTINOV, N. M. Vlijanie uglekisloty na rost i razvitie rastenij (na primere kul'tury sakharnoi svьkly) [Effect of carbon dioxide on the growth and development of plants as exemplified by sugar beet culture]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 109 p. 463.34 K832
- 841 KOOT, Y. VAN. The importance of physiological research to the culture of plants under glass. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13: 629-638. Ref. Aug./Sept. 1950. 86 N384  
English summary.
- 842 KORŪKAEV, S. I., and VINOGRADOVA, E. I. Duration of winter wheat vernalization in relation to harvesting dates of seeds. (In Russian.) Agrobiologičeskaja 1950(3):67-69. May/June 1950. 20 Ag822
- 843 KOYAMA, R., and IWATA, Z. Researches on the acceleration of fructification by artificial methods of Sugl and Hinoki. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:104-105. Apr. 25, 1950. 99.8 N62
- 844 LAIBACH, F., and KRIBBEN, F. J. Der einfluss von wuchsstoff auf das geschlecht der blüten bei einer monözischen pflanze. Beitr. z. Biol. der Pflanz. 28:64-67. 1950. 450 C66
- 845 LAMBETH, V. N. Some factors influencing pod set and yield of the lima bean. Mich. U. Microfilm Abs. 10(3):123-124. 1950. 241.8 M58
- 846 LEMAN, V. M. Accelerated growth of tree seedlings with the aid of electric light. (In Russian.) Lesn. Khoz. 3:60-63. Jan. 1950. 99.8 L562
- 847 LEONARD, C. D., and TOTH, S. J. Plant studies with radioactive sodium. Agron. J. 42:469-474. Ref. Oct. 1950. 4 Am34P
- 848 LEVINE, M. The growth of normal plant tissue in vitro as affected by chemical carcinogens and plant growth substances. I. The culture of the carrot tap-root meristem. Amer. J. Bot. 37:445-458. Ref. June 1950. 450 Am36
- 849 LINSER, H. Beobachtungen zur jahresperiodik der wachstumskorrelationen bei keimlingen von *Avena sativa*. Phytom 2:92-97. Ref. July 3, 1950. 450 P565
- 850 LIONS, F. A spray protects cherries from the rain. Grower [Adelaide] 4(12):32. June 1950. 80 G912
- 851 LIVINGSTON, G. A. In vitro tests of abscission agents. Plant Physiol. 25:711-721. Ref. Oct. 1950. 450 P692
- 852 LIYANAGE, D. V. Preliminary studies on the floral biology of the coconut palm. Trop. Agr. [Ceylon] 105:171-175. Oct./Dec. 1949. 26 T751
- 853 LOBANOV, G. A. Effect of different quantities of pollen on fertilization. (In Russian.) Agrobiologičeskaja 1950(3):78-86. May/June 1950. 20 Ag822  
Experiments with fruit and berries.
- 854 LOUSTALOT, A. J., CRUZADO, H. J., and MUZIK, T. J. The effect of 2,4-D on sugar content of sugar cane. Sugar J. 13(5):78. Oct. 1950. 65.8 Su391
- 855 LUCE, W. A. Zinc deficiencies are being corrected. Better Fruit 45(4):13. Oct. 1950. 80 B46
- 856 LUNDEGÅRDH, H. The effect of indol acetic acid on the bleeding of wheat roots. Arkiv f. Bot. 1: 295-299. 1949. 451 Sv2
- 857 LUNDEGÅRDH, H. The influence of auxin anions on the growth of wheat roots. Arkiv f. Bot. 1:289-293. 1949. 451 Sv2
- 858 MCALPIN, D. M. Winter drop of grapefruit; reduction by spraying. Grower [Adelaide] 5:44-45. July 1950. 80 G912
- 859 MCILRATH, W. J. Growth responses of tomato to nutrient ions adsorbed on a pumice substrate. Plant Physiol. 25:682-701. Ref. Oct. 1950. 450 P692
- 860 MCLARTY, H. R., and WOODBRIDGE, C. G. Boron in relation to the culture of the peach tree. Sci. Agr. 30:392-395. Sept. 1950. 7 Sci2
- 861 MANNING, H. E. The effect of anthocyanin filters on plant behavior and development. Butler U. Bot. Studies 9:203-211. Ref. May 1950. 451 B97
- 862 MARLOTH, R. H. Citrus growth studies. II. Fruit-growth and fruit internal quality changes. J. Hort. Sci. 25:235-248. Ref. June 1950. 80 J825
- 863 MARSHALL, L. M., FRIEDBERG, F., and WEBB, A. H. The effect of calcium on organic acid production in "*Rhizopus delemar*." Euclides 110:166-167. Apr. 1950. 475 Eu2
- 864 MARTIN, D. Growth regulating substances. (Sum.) Roy. Austral. Chem. Inst. J. & Proc. 17:179-180. May 1950. 385 Au72  
Plant hormones.
- 865 MAŠKOVÁ, J. The bursting of carrots in relation to growth substances. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:620-628. 1950. 19.5 C332C  
English summary.
- 866 MEDINET, V. D. Evaluation of drought resistance of [oat and wheat] varieties in relation to yields. (In Russian.) Selek. i Semen. 17(8):58-61. Aug. 1950. 61.9 Se5
- 867 MELIN, E. New experiences concerning dormancy in plants. (In Swedish.) Vetensk. Soc. Årsb. 1949:69-84. 1950. 502 Uo7A
- 868 MENAGARISHVILI, A. D., and LEZHAVA, V. V. Effectiveness of minor element applications to vineyards. (In Russian.) Vinodel. i Vinograd. SSSR. 10(6):16-17. June 1950. 95.8 V77
- 869 MEYER, W. Bormangelkrankheit bei luzerne. Deut. Landwirt. Presse 73(18):3-4. Aug. 19, 1950. 18 D482
- 870 MILLER, C. W. The effect of precipitation on annular-ring growth in three species of trees from Brown County, Indiana. Butler U. Bot. Studies 9:167-175. May 1950. 451 B97
- 871 MITCHELL, J. W., and MARTIN, P. C. Effect of growth-regulating substances on the water-retaining capacity of bean plants. Bot. Gaz. 112:70-76. Ref. Sept. 1950. 450 B652
- 872 MITCHELL, J. W., and LINDER, P. J. Some methods used in tracing radioactive growth-regulating substances in plants. Bot. Gaz. 112:126-129. Sept. 1950. 450 B652
- 873 MONSELISE, S. P. The carbon dioxide content of the air in a citrus orchard. Palestine J. Bot. Rehovot Ser. 7:81-84. Ref. Dec. 1949. 450 P172
- 874 MONTENEGRO, H. W. S. Hormones in agriculture. (In Portuguese.) Solo 41:15-30. Oct. 1949. 9.2 So4  
Plant growth substances.



- 875 MOZHAJEVA, L. V. Effect of salts and saccharose on water intake of young plant cells. (In Russian.) Akad. Nauk SSSR. Dok. 72:1167-1170. June 21, 1950. 511 P444A  
Experiments with etiolated sprouts of sunflower.
- 876 MULDER, E. G. Effect of fertilizers on the chemical composition of herbage. Internatl. Grassland Cong. Rpt. 5:61-72. 1949. 60.19 In85R  
Includes discussion.
- 877 MÜLLER, E. Phytohormonschäden an obstbäumen. Schweiz. Z. f. Obst- u. Weinbau 59:372-373. Sept. 30, 1950. 80 Sch9  
Herbicides using 2,4-D as basis.
- 878 MÜLLER-STOLL, W. R. Wuchsstoffversuche mit reben. II. Reaktionsweise von samen, keimlingen und nichtholzig organen der weinrebe auf künstliche wuchsstoffgaben. Züchter 20:213-226. Ref. 1950. 442.8 Z8
- 879 MURPHY, D. D. The effect of radiant energy on the growth and development of red kidney bean (*Phaseolus vulgaris*). Mich. U. Microfilm Abs. 10(3): 126-127. 1950. 241.8 M58
- 880 NÁDVORNIK, J. Changes in germination of some flower seed during an eight years storage. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:569-574. 1950. 19.5 C332C  
English summary.
- 881 NAKAYAMA, J. Effects of aeration in hydroponics of trees. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:108. Apr. 25, 1950. 99.8 N62
- 882 NANCE, J. F. Inhibition of nitrate assimilation in excised wheat roots by various respiratory poisons. Plant Physiol. 25:722-735. Ref. Oct. 1950. 450 P692
- 883 NAYLOR, A. W., and DAVIS, E. A. Maleic hydrazide as a plant growth inhibitor. Bot. Gaz. 112:112-126. Ref. Sept. 1950. 450 B652
- 884 N. S. WALES. DEPT. OF AGRICULTURE. DIV. OF SCIENCE SERV. Cork or boron deficiency disorders of pome fruits. N. S. Wales. Dept. Agr. Plant Dis. L. 93,4 p. 1950. 464.9 N47
- 885 NICKELL, L. G., GREENFIELD, P., and BURKHOLDER, P. R. Atypical growth of plants. III. Growth responses of virus tumors of Rumex to certain nucleic acid components and related compounds. Bot. Gaz. 112:42-52. Ref. Sept. 1950. 450 B652
- 886 NOSATOVSKIĬ, A. I. Pshenitsa; biologičeskaia [Wheat; biology]. Moskva, Gos. Izd-vo Selkhoz. Lit-ry, 1950. 407 p. 463.3 N842
- 887 OBATON, M. Organisation vasculaire dès la germination chez les Datura (*D. sanguinea* Ruiz et Pav., *D. metel* L., *D. stramonium* L.). Ann. des Sci. Nat. Bot. et Biol. Vég. (ser. 11, 1949) 10:179-200. Ref. June 1950. 450 An75
- 888 OKADA, Y., and MORIKAWA, K. On the germination of pollens of Himalayan cedar. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:109-110. Apr. 25, 1950. 99.8 N62
- 889 OLSON, R. V., and CARLSON, C. W. Iron chlorosis of sorghums and trees as related to extractable soil iron and manganese. Soil Sci. Soc. Amer. Proc. 1949(14):109-112. Ref. 1950. 56.9 So3
- 890 OLTMANN, W. Die herstellung polyploider pflanzen mit hilfe von colchicin-injektionen. Züchter 20: 209-210. 1950. 442.8 Z8
- 891 OPPENHEIMER, H. R. The water turn-over of the Valonea oak [*Quercus macrolepis*]. Palestine J. Bot. Rehovot Ser. 7:177-179. Dec. 1949. 450 P172
- 892 ORLOVA, T. G. Determining the vegetative vigor of grape bushes. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):20. July 1950. 95.8 V77  
Study of root system.
- 893 OSTROVSKIĬ, N. I. Effect of benzene hexachloride on germination of seeds, development and quality of sugar beets. (In Russian.) Sakh. Promysh. 24 (6):44-47. June 1950. 65.8 Sa2
- 894 PALTÍ, J., and AWNER, Z. The effect of sodium isopropyl xanthogenate on Shamouti oranges. Palestine J. Bot. Rehovot Ser. 7:179-180. Dec. 1949. 450 P172
- 895 PATT, Y. The influence of petroleum oils on the germination of citrus seeds and subsequent growth of seedlings. Palestine J. Bot. Rehovot Ser. 7:94-102. Dec. 1949. 450 P172
- 896 PILET, P. E. Enracinement des feuilles du *Ramonda myconi* (L.) à l'aide d'un sel de l'hétéroauxine. Soc. Vaud. des Sci. Nat. B. 64:433-445. Ref. July 1950. 508 L37
- 897 POST, K. Controlled photoperiod and spray formation of *Chrysanthemums*. *Chrysanthemum Soc. Amer. B.* 18(4):34-40. Oct. 1950. 81 C46B
- 898 POTAPOV, A. A. Problems of physiology and ecology of submerged hydrophytes. (In Russian.) Uspekhi Sovrem. Biol. 29:429-441. Ref. May/June 1950. 442.8 Er3
- 899 PAULSEN, H. A., JR. Mortality of velvet mesquite seedlings. J. Range Managt. 3:281-286. Oct. 1950. 60.18 J82
- 900 PETRICCI, V. E. Fruit bud initiation and differentiation in the Mission fig. Calif. Fig Inst. Proc. Annu. Res. Conf. 4:37-39. 1950. 93.44 C122P
- 901 POST, K., and KAMEMOTO, H. Photoperiod and bud formation on *Chrysanthemum* cuttings. *Chrysanthemum Soc. Amer. B.* 18(4):41-44. Oct. 1950. 81 C46B
- 902 POST, K., and KAMEMOTO, H. A study on the number of short photoperiods required for flower bud initiation and the effect of interrupted treatment on flower spray formation in two commercial varieties of *Chrysanthemums*. *Chrysanthemum Soc. Amer. B.* 18(4):45-52. Oct. 1950. 81 C46B
- 903 PROEBSTING, E. L. Fig leaf analyses. Calif. Fig Inst. Proc. Annu. Res. Conf. 4:20-21. 1950. 93.44 C122P
- 904 QUASTLER, H., and BAER, M. Inhibition of plant growth by irradiation. V. Radiation effects on initiation and completion of growth. Cancer Res. 10:604-612. Oct. 1950. 448.8 C16  
Experiments with mung beans.
- 905 RAKHTEENKO, I. N. Effect of mixing tree and shrub species on the development of their root system. (In Russian.) Lesn. Khoz. 3(4):33-40. Apr. 1950. 99.8 L562
- 906 RAMIG, R. E., and VANDECAVEYE, S. C. A study of certain nutrient levels for raspberries grown in water cultures. Plant Physiol. 25:617-629. Ref. Oct. 1950. 450 P692
- 907 RANDALL, C. G. Germination studies of cotton seed from plants affected by 2,4-D spray drift. Calif. Dept. Agr. B. 39:144-148. July/Sept. 1950. 2 C12M
- 908 RAPER, J. R. Sexual hormones in *Achlya*. VII. The hormonal mechanism in homothallic species. Bot. Gaz. 112:1-24. Ref. Sept. 1950. 450 B652
- 909 REESE, G. Beiträge zur wirkung des colchicins bei der samenbehandlung. Planta 38:324-376. Ref. 1950. 450 P693
- 910 REUSZER, H. W. A method for determining the carbon dioxide production of sterile and nonsterile root systems. Soil Sci. Soc. Amer. Proc. 1949(14):175-179. 1950. 56.9 So3
- 911 ROMANINI, A. How to stimulate germination of Robinia seeds. (In Italian.) Avvenire Agr. 58:164. July 1950. 16 Av9  
Robinia pseudoacacia.
- 912 ROSENE, H. F. Ageing and the influx of water into radish root-hair cells. J. Gen. Physiol. 34:65-73. Ref. Sept. 20, 1950. 447.8 J822
- 913 ROSENE, H. F., and BARTLETT, L. E. Effect of anoxia on water influx of individual radish root hair cells. J. Cell. & Compar. Physiol. 36:83-96. Ref. Aug. 1950. 444.8 J822
- 914 RUNOV, V. I., and EIDEL'NANT, N. M. Effect of calcium on leaf structure and physiological processes in melons. (In Russian.) Akad. Nauk SSSR. Dok. 73:397-399. July 11, 1950. 511 P444A
- 915 SANCHEZ-MARROQUIN, A. Metabolismo autótrofo y heterótrofo en los microorganismos. Soc. Mex. de Hist. Nat. Rev. 10:27-44. Ref. Dec. 1949. 516 So15
- 916 SANDERSON, M. Three years of evapotranspiration at Toronto. Canad. J. Res. Sect. C, Bot. Sci. 28: 482-492. Oct. 1950. 470 C16C
- 917 SANZ DE CORTAZAR, C. Observación de la esterilidad en algunas papas. Chile. Dir. Gen. de Agr. Agr. Tec. 9:99-114. Ref. Dec. 1949. 464.9 C432B  
English summary.
- 918 SATO, Y., MIYAKOSHI, M., and MUTO, N. The effect of photoperiod on the cold resistance of tree seedlings. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32: 106. Apr. 25, 1950. 99.8 N62



- 919 SAVORY, H. J. Insect catching plants; the sundews. *Nigeria* 34:228-229. 1950. 110 N56 Drosera.
- 920 SAX, K. The cytological effects of low-intensity radiation. *Science* 112:332-333. Sept. 22, 1950. 470 Sci2  
Experiment with *Tradescantia paludosa*.
- 921 SCHIPSTRA, K. Boron deficiency in agricultural plants. (In Dutch.) *Nieuwe Veldbode* 16:698. July 27, 1950. 12-V542N
- 922 SCHRANK, A. R. Inhibition of curvature responses by shunting the inherent electrical field. *Plant Physiol.* 25:583-593. Oct. 1950. 450 P692  
Isolated coleoptiles of oats used in tests.
- 923 SCHWANITZ, F. Worauf beruht die verminderte Fruchtbarkeit polyploider pflanzen? *Umschau* 50:436-438. July 15, 1950. 474 Um7
- 924 SCIARONI, R. H., and ZENTMYER, G. A. Chlorosis in heather [Erica]. *Florists' Rev.* 107(2763): 39. Nov. 9, 1950. 80 W41
- 925 SEELEY, R. C., and WAIN, R. L. A note on the growth-regulating activity of 2,6-dichlorophenoxyacetic acid. *J. Hort. Sci.* 25:264-265. June 1950. 80 J825
- 926 SHCHEPOT'EV, F. L. Effect of various sections of the sunlight spectrum on growth and development of *Gleditsia triacanthos*. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:409-412. July 11, 1950. 511 P444A
- 927 SHEVCHENKO, F. P. Increasing disease resistance in spring cereals by late-autumn planting. (In Russian.) *Selek. i Semen.* 17(6):53-55. June 1950. 61.9 Se5
- 928 SHIRLEY, R. L., and BENNE, E. J. Report on sodium in plants. *Assoc. Off. Agr. Chem. J.* 33:805-810. Aug. 15, 1950. 381 As7
- 929 SHKOL'NIK, M. I. A., and STEKLOVA, M. M. On phosphorus and potassium intake at various temperatures of plants differing in their boron requirements. (In Russian.) *Akad. Nauk SSSR. Dok.* 72:1171-1174. June 21, 1950. 511 P444A  
Experiments with wheat and flax.
- 930 SIDERIS, C. P., and YOUNG, H. Y. Growth of *Ananas comosus* (L.) Merr. at different levels of mineral nutrition under greenhouse and field conditions. I. Plant and fruit weights and absorption of nitrate and potassium at different growth intervals. *Plant Physiol.* 25:594-616. Ref. Oct. 1950. 450 P692
- 931 SIDORIN, M. I. On the absorption of direct solar radiation by leaves of agricultural plants. (In Russian.) *Bot. Zhur.* 35:29-39. Ref. Jan./Feb. 1950. 451 R923
- 932 SIEGEL, S. M. Effects of exposures of seeds to various physical agents. I. Effects of brief exposures to heat and cold on germination and light-sensitivity. *Bot. Gaz.* 112:57-70. Ref. Sept. 1950. 450 B652
- 933 SIEV, D. Studies of the phenology of some wheat varieties in Palestine. *Palestine J. Bot. Rehovot Ser.* 7:53-62. Dec. 1949. 450 P172
- 934 SILBERSCHMIDT, K., and ANDRADE, A. C. Anomalies in the development and production of tomato plants, caused by inadequate nutrition. (In Portuguese.) *Inst. Biol. São. Paulo. Arq.* (1949/50)19:117-148. 1950. 442.9 Sa6  
English summary.
- 935 SIMAKINA, V. A. On withering of potato plantings. (In Russian.) *Sad i Ogorod* 1950(7):74-75. July 1950. 87 Sa1  
Caused by high temperature.
- 936 SINSKAJA, E. N. Work of VNIIMK [Vsesoyuznyi Nauchno-Issledovatel'skii Institut Maslichnykh Kul'tur] in the field of biology of development and physiology of oil crops. (In Russian.) *Selek. i Semen.* 17(7):26-31. July 1950. 61.9 Se5
- 937 SKLIARENKO, T. F. Effect of agrotechnical measures on dynamics of growth of *Euonymus verrucosus* and of other tree species. (In Russian.) *Lesn. Khoz.* 3:50-53. Jan. 1950. 99.8 L562
- 938 SLONIMSKI, P. P. Effet de l'oxygène sur la formation de quelques enzymes chez le mutant petite colonie de *Saccharomyces cervisiae*. *Paris. Acad. des Sci. Compt. Rend.* 231:375-376. July 31, 1950. 505 P21
- 939 SMITH, A. M., and SIMPSON, K. Factors affecting the uptake of phosphorus by plants. *J. Sci. Food & Agr.* 1:208-212. July 1950. 382 So12
- 940 SMITH, D. Seasonal fluctuations of root reserves in red clover, *Trifolium pratense* L. *Plant Physiol.* 25:702-710. Ref. Oct. 1950. 450 P692
- 941 SONNENBLICK, B. P., ANTROPOL, W., and GOLDMAN, L. Influence of tetrazolium salt on the growth and cytology of root tips. *N. Y. Acad. Sci. Trans (ser.2)* 12:161-163. Mar. 1950. 500 N484T
- 942 SOSA BOURDOUIL, G. Études physiologiques sur *Ginkgo biloba* L. *Ann. des Sci. Nat. Bot. et Biol. Vég.* (ser. 11, 1949) 10:145-162. Ref. June 1950. 450 An75
- 943 SPIKES, J. D., and others. Potential changes in chloroplast suspensions and in whole cytoplasm preparations of plant cells on illumination. *Natl. Acad. Sci. Proc.* 36:455-460. Ref. Sept. 15, 1950. 500 N21P  
R. Lumry, H. Eyring, and R. Wayrynen, joint authors.
- 944 SPURLING, M. B. Water requirements of citrus. I. Citrus root distribution. *So. Austral. Dept. Agr. J.* 53:536-541. July 1950. 23 So84
- 945 STERLING, C. Histogenesis in tobacco stem segments cultured in vitro. *Amer. J. Bot.* 37:464-470. Ref. June 1950. 450 Am36
- 946 STEWARD, F. C., and THOMPSON, J. F. Photosynthesis and respiration: a reinterpretation of recent work with radioactive carbon. *Nature [London]* 166:593-596. Ref. Oct. 7, 1950. 472 N21
- 947 STILES, W. Plant physiology. *Sci. Prog. [London]* 38:729-734. Oct. 1950. 472 Sci22
- 948 STOLL, K. Modellversuche zur Wirkung der edaphischen Dürré auf die Entwicklung von Leguminosen. *Schwarzenburg, Gerber*, 1949. 51 p. 463.3 St63
- 949 STONE, E. L., JR. Some effects of mycorrhizae on the phosphorus nutrition of Monterey pine [*Pinus radiata*] seedlings. *Soil Sci. Soc. Amer. Proc.* 1949(14): 340-345. Ref. 1950. 56.9 So3
- 950 SUKHENKO, A. I. A. Experiments in alfalfa seed production under conditions of a damp climate. (In Russian.) *Selek. i Semen.* 17(7):62-64. July 1950. 61.9 Se5
- 951 SUSLOV, A. F. Effect of supplementary artificial pollination of timothy on yields of seeds. (In Russian.) *Selek. i Semen.* 17(5):72-73. May 1950. 61.9 Se5
- 952 SVANBERG, O. Mineral deficiencies and mineral intoxications with special reference to trace elements. *Internatl. Grassland Cong. Rpt.* 5:249-257. 1949. 60.19 In85R  
Includes discussion.
- 953 TALLARICO, G. Mediterranean light. (In Italian.) *Humus* 6(7):3-5. July 1950. 16 H88  
Photoperiodism.
- 954 TANDON, M. P. Sulphur requirement of *Pestalotia malorum* and *Pestalotia psidii*. *Indian Acad. Sci. Proc. Sect. B* 32:7-11. Ref. July 1950. 513 In25B
- 955 TARANCHUK, M. L. Relation of planting characteristics of castorbean seeds to their location on the plant. (In Russian.) *Selek. i Semen.* 17(5):66-67. May 1950. 61.9 Se5
- 956 TAUC, L. Propagation de l'excitation photoélectrique dans l'épicotyle de *Vicia faba* L. *Soc. de Biol. Compt. Rend.* 144:898-900. July 1950. 442.9 P21
- 957 TAUC, L. Rôle du  $\beta$ -carotène dans l'effet photoélectrique étudié sur l'épicotyle de *Vicia faba*. *Soc. de Biol. Compt. Rend.* 144:896-898. July 1950. 442.9 P21
- 958 TAVADZE, P. G. Effect of growth substances on yield of first-rate graftings. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(6):26-27. June 1950. 95.8 V77  
Experiments with grape vines.
- 959 TAYLOR, F. J. Effect of aeration on the absorption of glucose by a green alga. *Nature [London]* 166:519-520. Sept. 23, 1950. 472 N21
- 960 TAZOE, H. The relation between the cell sap concentration of the periblem cells of the roots and the seasonal height growth of the seedlings. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:107-108. Apr. 25, 1950. 99.8 N62
- 961 THOMPSON, F. C., CRIPPS, E. G., and BURGESS, A. H. Experiments on magnesium deficiency in the hop plant. *Progress report I.* *Wye Col. Dept. Hop Res. Rpt.* 1949:34-42. May 1950. 70.9 W972
- 962 TISHCHENKO, A. Increasing germination of [sugar] beet seeds by warming. (In Russian.) *Agrobiologiya* 1950(3):142-145. May/June 1950. 20 Ag822



- 963 TOMBESI, L., and others. Catalase activity and critical energy of seeds coming from plants with diverse water regimes. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:725-733. 1950. 16 An76  
M. Tarantola, S. Fortini, and M. E. Venezian, joint authors.  
English summary.
- 964 TOMBESI, L., and TARANTOLA, M. Chemical composition of seeds of some plants in relation to water availabilities in the soil. II. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:715-724. 1950. 16 An76  
English summary.  
Beans, rape, peanuts, flax, and broadbeans.
- 965 TOMBESI, L. Photosynthesis, respiratory quotient, transpiration, catalase and oxidase activity of certain plants in relation to the soil water availability. I-II. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:481-536. Ref. 1950. 16 An76  
English summary.
- 966 TOMBESI, L. Production of organic substance and water availability of the soil. I. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:697-714. 1950. 16 An76  
English summary.  
Tomatoes, peanuts, grapes, beans, and rape.
- 967 TSAO, T. H., RABIDEAU, G. S., and WHALEY, W. G. The phosphorus uptake of *Andropogon ischaemum* L. at various stages of development. *Plant Physiol.* 25: 653-665. Ref. Oct. 1950. 450 P692
- 968 TSCHERMAK-WOESS, E. Über eine synbacteriose und andere ähnliche symbiosen. *Österr. Bot. Z.* 97:188-206. Ref. 1950. 450 Os7
- 969 VANÍČEK, V. Antagonism of nitrogen and 2, 3, 5-triiodobenzoic acid in the heading of cauliflower. (In Czech.) *Českoslov. Akad. Zeměděl. Sborn.* 22:628-634. Ref. 1950. 19.5 C332C  
English summary.
- 970 VASIL' EVA, Z. V., and KURGANOVA, M. I. Comparison of intensity of photosynthesis in *Aconitum [flerovii]* and in kidney beans [*Phaseolus vulgaris*]. (In Russian.) *Akad. Nauk SSSR. Dok.* 72:961-963. Ref. June 11, 1950. 511 P444A
- 971 VENEZIAN, M. E. Oxidase activity in relation to the bacterial symbiosis of leguminous plants. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:735-749. Ref. 1950. 16 An76  
English summary.
- 972 VERKERK, K. The influence of artificial pollination and illumination of tomatoes. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13:620-628. Aug./Sept. 1950. 86 N384  
English summary.
- 973 VIRGIN, H. I. A localized effect of light on the protoplasmic viscosity of plant cells. *Nature [London]* 166:485. Sept. 16, 1950. 472 N21
- 974 WAIN, R. L. Studies on plant growth-regulating substances. I. Field trials using various synthetic compounds for the setting of outdoor tomatoes. *J. Hort. Sci.* 25:249-263. Ref. June 1950. 80 J825
- 975 WANN, F. B. Chlorosis in roses. *Green Thumb* 7(11):28. Nov. 1950. 80 G82
- 976 WANN, F. B. Hormones fail to increase fruit set in sweet cherry. *Farm & Home Sci. [Utah Sta.]* 11: 60-61, 48. Sept. 1950. 100 UtlF
- 977 WARD, G. M. Physiological research on tobacco at Ottawa. Canada. Expt. Farms. Tobacco Div. *Lighter* 20(3):1. Aug. 1950. 286.89 C16
- 978 WARNER, R. M. Relative humidity and temperature as related to splitting in figs. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 3:5. 1949. 93.44 C122P
- 979 WATSON, D. P. Anatomical modification of velvet bent grass (*Agrostis canina* L.) caused by soil treatment with 2,4-dichlorophenoxyacetic acid. *Amer. J. Bot.* 37:424-431. Ref. June 1950. 450 Am36
- 980 WEISSENBOCK, K. Studien an colchizinierten pflanzen. II. *Phyton* 2:134-152. Ref. July 3, 1950. 450 P565
- 981 WELLS, J. S. Curing chlorosis in Azaleas. *Nurseryman & Seedsman* 111:794-795. Sept. 28, 1950. 80 N933
- 982 WENT, F. W. The response of plants to climate. *Science* 112:489-494. Oct. 27, 1950. 470 Sci2
- 983 WILDE, S. A., and PRONIN, D. T. Growth of trembling aspen [*Populus tremula*] in relation to ground water and soil organic matter. *Soil Sci. Soc. Amer. Proc.* 1949(14):345-347. 1950. 56.9 So3
- 984 WILLIAMS, K. T., BEVENUE, A., and POTTER, E. F. Report on sugars in plants. *Assoc. Off. Agr. Chem. J.* 33:816-819. Ref. Aug. 15, 1950. 381 As7
- 985 WILSON, E. E., and STOUT, G. L. Observations on the bud-failure disorder in Jordanolo, a new variety of almond. (Abs.) *Phytopathology* 40:970. Oct. 1950. 464.8 P56
- 986 WRIGHT, J. E., and SRB, A. M. Inhibition of growth in maize embryos by canavanine and its reversal. *Bot. Gaz.* 112:52-57. Ref. Sept. 1950. 450 B652
- 987 YUSEF, H. M. An investigation of the requirements of some Hymenomycetes for specific essential metabolites. *Mich. U. Microfilm Abs.* 10(3):17-19. 1950. 241.8 M58
- 988 ZANONI, G. On the inhibitory power of tissues having high metabolic potentials. I-II. (In Italian.) *Soc. Ital. di Biol. Sper. B.* 26:240-244. Mar. 1950. 442.8 So12  
Plants.
- 989 ZENTMYER, G. A., SNYDER, W. C., and HANSEN, H. N. Use of natural media for inducing sporulation in fungi. (Abs.) *Phytopathology* 40:971. Oct. 1950. 464.8 P56  
*Phytophthora cinnamomi*.

## BIOCHEMISTRY

990 AHMAD, B., and SINGH, G. Observations on a growth promoting factor in Bengal gram (*Cicer arietinum*). *Pakistan J. Sci. Res.* 1:99-103. July 1949. 475 P173

991 ANDRÉ, E., CARBOUÈRE, M., and MAILLE, M. Sur la teneur en huile et en linamaroside des graines de diverses variétés de lin. *Paris. Acad. des Sci. Compt. Rend.* 231:590-592. Sept. 18, 1950. 505 P21

992 ANET, F. A. L., HUGHES, G. K., and RITCHIE, E. A new Strychnos alkaloid. *Nature [London]* 166:476. Sept. 16, 1950. 472 N21

993 BANERJEE, S., and BANERJEE, R. Studies on the biosynthesis of nicotinic acid. I. Biosynthesis of nicotinic acid by germinating pulses. *Indian J. Med. Res.* 38:153-160. Ref. Apr. 1950. 448.8 In22

994 BARDINSKAJA, M. S. Color reactions on lignin. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:345-348. July 11, 1950. 511 P444A  
Experiments with extracts from different parts of the potato plant.

995 BICK, I. R. C., and TODD, A. R. Alkaloids of *Daphnandra* species. III. Micranthine. *Chem. Soc. J.* 1950:1606-1612. June 1950. 382 L84J

996 BONNER, J. Plant biochemistry. New York, Academic Press, 1950. 537 p. 463.2 B64

997 DELECOUR, F. Une question intéressante en biochimie des fermentations: les amylases fongiques. *Ann. de Gembloux* 56:113-129. Ref. Third Q. 1950. 13 G28

998 ERKAMA, J., and PETERSSON, N. Vitamin K in germinating peas. *Acta Chem. Scand.* 4:922-925. 1950. 385 Ac82

999 FEINSTEIN, L., and MCCABE, E. T. New tests for the Nicotiana alkaloids, nornicotine and anabasine. *Science* 112:534. Nov. 3, 1950. 470 Sci2

1000 FISCHER, R., and WYBIRAL, M. Zum nachweis kleinster saponinmengen. *Phyton* 2:77-91. Ref. July 3, 1950. 450 P565  
In plants.

1001 FORTINI, S., and VENEZIAN, M. E. On some enzymatic systems of *Arachis hypogaea*. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:751-766. 1950. 16 An76  
English summary.

1002 FULLER, R. C., BARRATT, R. W., and TATUM, E. L. The relationship between hexachlorocyclohexane and inositol in *Neurospora*. *J. Biol. Chem.* 186:823-827. Ref. Oct. 1950. 381 J824

1003 GEL'MAN, N. S. Dehydrogenases of higher plants. (In Russian.) *Uspekhi Sovrem. Biol.* 29:412-428. Ref. May/June 1950. 442.8 Er3

1004 GERSHTEIN, L. A. Conversion of substances in tung oil tree seeds during germination. (In Russian.) *Akad. Nauk SSSR. Dok.* 72:1091-1094. June 21, 1950. 511 P444A

1005 GORHAM, P. R., and CLENDENNING, K. A. Storage of isolated chloroplasts without loss of photochemical activity. *Canad. J. Res. Sect. C, Bot. Sci.* 28: 513-524. Ref. Oct. 1950. 470 C16C



- 1006 HAQUE, M. U. The pharmacological properties of chaksine, an alkaloid of the seeds of *Cassia absus*, Linn. (Excerpts.) *Pakistan J Sci Res.* 1:91-95. July 1949. 475 P173
- 1007 HEAL, R. E., and others. A survey of plants for insecticidal activity. *Lloydia* 13:89-162. Ref. June 1950. 442.8 L77
- E. F. Rogers, R. T. Wallace, and O. Starnes, joint authors.
- 1008 HERRMANN, K. Flavonfarbstoffe der pflanzen. *Apoth.-Ztg.* 62:29-30. Feb.1950. 396.8 Ap4
- 1009 HIRSCHBERG, E., and RUSCH, H. P. Effects of compounds of varied biochemical action on the aggregation of a slime mold, *Dictyostelium discoideum*. *J. Cell. & Compar. Physiol.* 36:105-113. Ref. Aug.1950. 444.8 J822
- 1010 HIRST, E. L., MCGILVRAY, D. I., and PERCIVAL, E. G. V. Studies on fructosans. I. Inulin from *Dahlia* tubers. *Chem. Soc. J.* 1950:1297-1302. May 1950. 382 L84J
- 1011 HOUSTON, F. G., and WOOD, K. L. Report on iodine in plants. *Assoc. Off. Agr. Chem. J.* 33:815. Aug.15,1950. 381 As7
- 1012 JARETZKY, R., and SIMON, H. J. Beiträge zur pharmakognosie des maiglöckchens [*Convallaria*]. *Arch. der Pharm.* 283:77-85. 1950. 396.8 Ar2A
- 1013 KELLER, K. R., BULLIS, D. E., and MAGEE, R. A. The use of soft resin content for evaluating hops, *Humulus lupulus* L. *Agron. J.* 42:492-494. Ref. Oct. 1950. 4 Am34P
- 1014 KIDD, F., and others. The degradation of starch in apples removed from the tree at different stages of development. *J. Hort. Sci.* 25:289-296. June 1950. 80 J825
- C. West, D. G. Griffiths, and N. A. Potter, joint authors.
- 1015 KODANEV, I. M. Fertilizers and gluten of barley. (In Russian.) *Selekt. i Semen.* 17(7):71-72. July 1950. 61.9 Se5
- 1016 KUZIN, A. M., and SHKOL'NIK, R. Ā. On the participation of aldo-uronic acids in the process of photosynthesis. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:355-358. Ref. July 11,1950. 511 P444A
- 1017 LANCASTER, C. R., LANCASTER, E. B., and DUTTON, H. J. Countercurrent distribution studies on fat soluble plant pigments. *Amer. Oil Chem. Soc. J.* 27:386-390. Oct.1950. 307.8 J82
- 1018 LEBEN, C., and KEITT, G. W. A bioassay for tetramethylthiuramdisulfide. *Phytopathology* 40:950-954. Ref. Oct.1950. 464.8 P56
- Glomerella cingulata* as assay organism.
- 1019 LECAT, P. Acides ascorbiques oxydés et réduits. *Ann. des Sci. Nat. Bot. et Biol. Vég.* (ser.11,1949) 10:71-90. Ref. June 1950. 450 An75
- 1020 MANDELS, G. R. The photoinactivation of enzymes by riboflavin. *Plant Physiol.* 25:763-766. Oct. 1950. 450 P692
- 1021 MEDAWARA, M. R. Notizen über vitamin C in der pflanze. *Phyton* 2:193-212. Ref. July 3,1950. 450 P565
- 1022 MILLER, E. J. Report on plants. *Assoc. Off. Agr. Chem. J.* 33:803-805. Aug.15,1950. 381 As7
- 1023 MILNER, H. W., and others. Measurement and stabilization of activity of chloroplast material. *Arch. Biochem.* 28:193-200. Sept.1950. 381 Ar2
- C. S. French, M. L. G. Koenig, and N. S. Lawrence, joint authors.
- 1024 MILNER, H. W., KOENIG, M. L. G., and LAWRENCE, N. S. Reactivation of dispersed chloroplast material by reaggregation. *Arch. Biochem.* 28:185-192. Sept.1950. 381 Ar2
- 1025 MONACHINO, J. Recent developments in *Strophanthus* as a precursor of cortisone. *N. Y. Bot. Gard. J.* 51:233-241. Oct.1950. 451 N48J
- 1026 MORRISON, J. F. Enzymatic mechanisms in the respiration of rhubarb leaves. 2. *Austral. J. Expt. Biol. & Med. Sci.* 28:310-320. Ref. May 1950. 442.8 Au7
- 1027 NESTOR RICARDONI, J. Contenido, variación y distribución de la tiamina en semillas de trigo, en los distintos períodos de germinación. *La Plata. U. Nac. Facul. de Cien. Quím. Rev.* (1947)22:167-174. Ref. 1949. 385 L31
- Summary of a thesis.
- 1028 OPARIN, A. L., SISAQIAN, N. M., and GEL'MAN, N. S. Some data on chemical investigations of plants in the 18th century in Russia. (In Russian.) *Biokhimifā* 15:291-296. Ref. May/June 1950. 385 B523
- 1029 OTTKE, R. C., SIMMONDS, S., and TATUM, E. L. Deuteroacetate in the biosynthesis of ergosterol by *Neurospora*. *J. Biol. Chem.* 186:581-589. Ref. Oct.1950. 381 J824
- 1030 PENFOLD, A. R. The volatile oils of the Australian flora. *Austral. & New Zeal. Assoc. Advn. Sci. Rpt.* 27:161-172. Ref. 1949. 514 Au73
- 1031 PETROCHENKO, E. I. Ascorbic acid in leaves and tubers of potatoes. (In Russian.) *In Akad. Nauk SSSR. Inst. Biokhim. Biokhim. Plodov i Ovoshchei.* Sborn.1,p.113-123. Ref. Moskva, Akademiā Nauk SSSR, 1949. 463.29 Ak1
- 1032 POPOVSKAĬA, E. M. Formation and movement of ascorbic acid in plants. (In Russian.) *Biokhimifā* 15:249-255. Ref. May/June 1950. 385 B523
- 1033 PRASAD, S., and PRABHU, P. N. A pharmacognostical study of stem and leaf of *Adhatoda vasica*, Nees. *Indian J. Pharm.* 12:200-214. Ref. 1950. 396.8 In23
- 1034 ROBBINS, W. J., HERVEY, A., and STEBBINS, M. E. Studies on Euglena and vitamin B<sub>12</sub>. (Abs.) *Science* 112:455. Oct.20,1950. 470 Sci2
- 1035 ROBERTS, L. W. A survey of tissues that reduce 2,3,5-triphenyltetrazolium chloride in vascular plants. *Torrey Bot. Club.B.* 77:372-381. Sept./Oct.1950. 451 T63B
- 1036 RUBIN, B. A., and METLITSKII, L. V. Problem of increasing dry matter content in tomatoes. (In Russian.) *In Akad. Nauk SSSR. Inst. Biokhim. Biokhim. Plodov i Ovoshchei.* Sborn.1,p.85-112. Moskva, Akademiā Nauk SSSR, 1949. 463.29 Ak1
- Mainly on breeding.
- 1037 SHELDON, V. L. Biosynthesis of amino acids by forage plants according to soil fertility. *Mich. U. Microfilm Abs.* 10(3):243-244. 1950. 241.8 M58
- 1038 SOSA, A. Sur la présence de corps nouveaux dans les spores d'*Equisetum maximum* Lamk. et considérations sur les constituants chimiques des prêles. *Ann. des Sci. Nat. Bot. et Biol. Vég.* (ser.11,1949)10:201-219. Ref. June 1950. 450 An75
- 1039 STADELMANN, R., and MIRIMANOFF, A. Contribution à la phytochimie du péricarpe de *Juglans regia* L. *Phyton* 2:1-7. Ref. July 3,1950. 450 P565
- 1040 STRAHEIM, A. A few applications of spectrochemical analysis in fruit research. *Union So. Africa Dept. Agr. Sci. B.* 295,12 p. 1949. 24 So84S
- 1041 STUART, M., HARBAUGH, F. G., and DENNIS, J. A quantitative investigation of some mineral components of wheat plants. *Amer. J. Vet. Res.* 11:400-404. Ref. Oct.1950. 41.8 Am3A
- 1042 TARANTOLA, M. Seed composition of a few species of plants in relation to availability of water in the soil. (In Italian.) *Agr. Nuova* 2:315-318. June 1950. 16 Ag8223
- 1043 THIMANN, K. V. Autumn colors. *Sci. Amer.* 183(4):40-42. Oct.1950. 470 Sci25
- 1044 TOLBERT, N. E., and BURRIS, R. H. Light activation of the plant enzyme which oxidizes glycolic acid. *J. Biol. Chem.* 186:791-804. Ref. Oct.1950. 381 J824
- 1045 TSAO, T. H., and WHALEY, W. G. Uptake and accumulation of phosphorus by normal and gall tissues. *Torrey Bot. Club.B.* 77:382-384. Sept./Oct.1950. 451 T63B
- 1046 WILLIAMS, R. J., and others. The biochemistry of B vitamins. *New York, Reinhold*, 1950. 741 p. (Amer. Chem. Soc. Monog. Ser. 110) 386.3 W672
- R. E. Eakin, E. Beerstecher, Jr., and W. Shive, joint authors.
- Includes the role of B vitamins in plant and animal organisms.
- 1047 WOOD, J. G., and SIBLY, P. M. The distribution of zinc in oat plants. *Austral. J. Sci. Res. Ser. B: Biol. Sci.* 3:14-27. Ref. Feb.1950. 442.8 Au72

## FIELD CROPS

Includes articles on general agronomy and on crop varieties, breeding, cultural practices, and yield.

## General

- 1048 ADVANCES in agronomy, v. 2. *New York, Acad. Press*, 1950. 407 p. 30 Ad9
- 1049 ANDERSEN, J. C. Prospects for the seed crop 1950. (In Danish.) *Tidsskr. f. Frøavl* 20:31-34. Sept.1950. 61.8 T43



- 1050 ANTONOV, I. G. Grass-field crop rotations--the most important measure for increasing productivity. (In Russian.) *Les i Step* 2(4):65-70. Apr.1950. 99.8 L565  
Agronomical practices on Krasnyi Khoper Collective Farm in Stalingrad Region.
- 1051 BALSER, R. L. Try a patch and judge for yourself. *Agr. Educ. Mag.* 23:90. Oct.1950. 275.8 Ag8  
Field crop culture.
- 1052 BAPTISTA, C. Further technical assistance to the agriculture of the Azores. (In Portuguese.) *Azores. Comis. Regulad. dos Cereais. B.* 6(12):98-102. Second Semes.1950. 15 Az6  
Field crops culture.
- 1053 BOAN, J. Higher yields with narrow rows. *Capper's Farmer* 61(10):34,66. Oct.1950. 6 M693
- 1054 BROMAN, R. Report on the local field test of the Kalmar Province Southern Agricultural Society in the year 1948. (In Swedish.) *Kalmar Läns Södra Hushållsk. Årsskr.* 1949:103-133. 11 K122
- 1055 CHAVAN, V. M., and BHAT, N. R. Causes for the low yields of food crops in India and measures suggested to improve them. *Poona Agr. Col. Mag.* 41:99-109. Ref. Aug.1950. 22 P79
- 1056 DOLLÉ, Note sur la Société Franco-Japonaise des Sciences Agronomiques. *Acad. d'Agr. de France. Compt. Rend.* 36:468-471. June 21/28,1950. 14 P215Bc
- 1057 GALLETI, A. C. "Regal" rotation on the clay soils of Volterra. (In Italian.) *Agr. Tosc.* 5:330. Aug.-Sept.1950. 16 Ag27  
Alfalfa-wheat rotation.
- 1058 GAVRIELIT, H., and HURWITZ, S. The viability period of field crop seeds. *Hassadeh* 30:593-595. (Cont.) July 1950. 26 H27  
In Hebrew.
- 1059 IGNACIO, P. J. Teoría y práctica de las rotaciones. *Campo [Tacuba]* (ser.2)18(702):44,46-48. Aug.31,1950. 8 C157
- 1060 IGNACIO, P. J. La utilidad de las rotaciones de cultivos. *Campo [Tacuba]* (ser.2)18(701):50-54. July 31,1950. 8 C157
- 1061 KALMAR, R. Cultivo y protección del garbanzo. *Pampa Argentina* 23(273):6. Aug.1950. 9 P19
- 1062 KIRSTE, A. Neuzzeitlicher pflanzenbau. Hannover, Schaper,1950. 390 p. Ref. 64 K63N
- 1063 LAZUR, G. L. Michurinite science at the breeding and agricultural experiment stations in Kazakh SSR. (In Russian.) *Selek. i Semen.* 17(8):27-34. Aug. 1950. 61.9 Se5  
Field crop research.
- 1064 LYSENKO, T. D. Agronomical teaching of V. R. Vil'iams. (In Russian.) *Vsesoiuzn. Akad. Sel'skhoz. Nauk im. V. I. Lenina. Dok.* 15(8):3-20. 1950. 20 Ak1  
Also in *Agrobiologiya* 1950(4):3-20. July/Aug.1950. 20 Ag822; *Selek. i Semen.* 17(8):1-18. Aug.1950. 61.9 Se5
- 1065 MALINOVSKIĬ, B. A. Tulunskafâ Breeding Station in the years of the postwar Five-Year Plan. (In Russian.) *Selek. i Semen.* 17(7):13-19. July 1950. 61.9 Se5  
Field crop research chiefly.
- 1066 ODLAND, T. E., BELL, R. S., and SMITH, J. B. The influence of crop plants on those which follow. V. R. I. Agr. Expt. Sta. B. 309,40 p. Ref. Aug.1950. 100 R34S
- 1067 PATTERSON, R. E. A method of adjustment for calculating comparable yields in variety tests. *Agron. J.* 42:509-511. Oct.1950. 4 Am34P
- 1068 PEDERSEN, M. W., and BOHART, G. E. Using bumblebees in cages as pollinators for small seed plots. *Agron. J.* 42:523. Oct.1950. 4 Am34P
- 1069 PEREIRA, S. Associated crops. (In Portuguese.) *Azores. Comis. Regulad. dos Cereais. B.* 6(12):81-84. Second Semes.1950. 15 Az6  
Field crops.
- 1070 POZDENA, L. Baut überwinternde zwischenfrüchte. *Burgenländische Bauernbündler* 3(15):3-9. Aug.10,1950. 19 B91
- 1071 ROSE, M. F. Possible crops for the cotton rotation in the southern Jebels area of Kordofan, A.E. Sudan. *Empire Cotton Growing Rev.* 27:260-274. Oct. 1950. 72.8 Em7
- 1072 SINGH, M. Confounding in split-plot designs with restricted randomization of sub-plot treatments. *Empire J. Expt. Agr.* 18:190-202. July 1950. 10 Em7
- 1073 SKÅNES FRÖDLINGSFÖRENING. Report of the activities of Scania Seed Growers Association during the year 1949. (In Swedish.) *Malmöhus Läns Hushåll. Sällsk. Kvrtlsskr.* 1950:135-153. 11 M29
- 1074 SLAATS, M. Catch crops. (In Flemish.) Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén. 2 (1):195-200. 1949. 43.9 C767  
French summary.
- 1075 SOPER, H. R. Winter beans. *Farming [Norwich]* 4:271-274. Sept.1950. 10 F2236
- 1076 STEELE, W. G. Agriculture in the Fassifern area. *Queensland Agr. J.* 71:79-90. Aug.1950. 23 Q33  
Field crops.
- 1077 STIVER, E. N., COLLIER, J. W., and JOHNSTON, J. R. Crop variety tests at the Blackland Experiment Station, 1950. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1281,6 p. Oct.6,1950. 100 T31P
- 1078 STREIT, J. Wir schützen unsere ernte. *Ver-sorgung* 4:204. Aug.1950. 280.8 V61  
Field crops.
- 1079 SWANSON, C. L. W., and others. The use of agronomists in time of national emergency. *Agron. J.* 42:516-519. Oct.1950. 4 Am34P  
W. A. Albrecht, W. H. Leonard, J. B. Peterson, and S. C. Vandecaveye, joint authors.
- 1080 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. DIV. OF FORAGE CROPS AND DISEASES: Report of acres applied for certification in 1950. n.p.,1950. 34 p. 1.965 F2R292
- 1081 WADLOW, T. J. They're not dead yet. *Farmers Wk. [London]* 33(4):51. July 28,1950. 10 F2226  
A farming system based on the four-course rotation with the one year ley in Great Britain.

## Cereals

- 1092 DU COURTILS, A. Méthode perfectionnée d'hybridation du maïs. *Vie à la Campagne* 39:264-265, 272. Aug.1950. 80 V67
- 1093 ARGENTINA. MINISTERIO DE AGRICULTURA Y GANADERIA. DIRECCIÓN DE PRODUCCIÓN DE GRANOS Y FORRAJES. Variedades de trigo aconsejadas por el tribunal de fiscalización de semillas para la siembra del año 1950. Argentina. Dir. de Inform. P. Misc. 326,13 p. 1950. 9 P493
- 1094 BAICHUROVA, KH. KH. Winter rye variety, Kazanskafâ 5+6. (In Russian.) *Selek. i Semen.* 17(8):55-57. Aug.1950. 61.9 Se5
- 1095 BARRADAS, L. Culture of wheat in the South of the Save. (In Portuguese.) *Gaz. do Agr.* 2:135-136. June 1950. 24 G25
- 1096 BENTIVOGLIO, A. Topping of corn. (In Italian.) *Avvenire Agr.* 58:167-168. July 1950. 16 Av9
- 1097 BERNARD, P. Quels blés semer? *Monit. Agr.* 3(130):1-2. Oct.8,1950. 14 M744  
France.
- 1098 BEVILACQUA, I. First results of threshing. (In Italian.) *Campagnolo* 5(7/8):3-4. July/Aug.1950. 16 C15  
Italy.
- 1099 BEVILACQUA, I. Rice in the "heart" of Modena. (In Italian.) *Gior. di Agr.* 60:295. Sept.17,1950. 16 ItG  
Culture
- 1090 BIANCHI, A. Notes on the provincial grain contest in the Province of Lucca. (In Italian.) *Agr. Tosc.* 5:311-317. Aug.-Sept.1950. 16 Ag27  
Wheat production.
- 1091 BOCETA, V. Siete años de trabajos selectivos en maíces. *Spain. Inst. Nac. de Invest. Agron. B.* 10(22):107-157. Ref. June 1950. 105.6 Sp14  
English summary.
- 1092 BORIN, K. A. 15 let za shturvalom kombaina [15 years at the wheel of a combine]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*,1950. 94 p. 120 B664  
Harvesting cereals.
- 1093 BORLAUG, N. E., RUPERT, J. A., and HARRAR, J. G. Nuevos trigos para México. *Agr. Lagune-ro* 4(43):15-34. July/Aug.1950. 8 Ag24



- 1094 BOWMAN, D. H. Wheat varieties adapted to Delta found in study of resistance to disease. *Miss. Farm Res. [Miss. Sta.]* 13(9):1,8. Sept.1950. 100 M69Mi
- 1095 BRÉTIGNIERE, L. Les blés à semer. *Agr. Prat.* 114:453-454. Oct.1950. 14 J82
- 1096 BROWN, W. L. The origin of Corn Belt maize. *N. Y. Bot. Gard. J.* 51:242-246,255. Oct.1950. 451 N48J
- 1097 BUGASOVA, ZH. P., and SVINKIN, SH. B. Organization of experimental work on the district seed farms in Ivanovo Region. (In Russian.) *Selek. i Semen.* 17(8):19-26. Aug.1950. 61.9 Se5
- 1098 CABRAL, A. Hybrid corn. (In Portuguese.) *Azores. Comis. Regulad. dos Cereais. B.* 6(12):78-80. Second Semes.1950. 15 Az6
- 1099 CHAFFIN, W., and GRANSTAFF, E. L. Wheat harvesting losses. *Okla. Agr. Col. Ext. C.* 527,4 p. 1950? 275.29 Ok41C
- 1100 CHAPMAN, W. H. Southland oats—a new variety. *Fla. Agr. Expt. Sta. C. S.* 18,8 p. Sept.1950. 100 F66Ci
- 1101 CHUN, C. K. Caractéristiques de quelques variétés de blés chinois cultivés en France. *Ann. des Sci. Nat. Bot. et Biol. Vég. (ser.11,1949)* 10:163-178. June 1950. 450 An75
- 1102 CLAPP, A. L. Cooperative oat variety tests, 1950. *Kans. Agr. Expt. Sta. Rpt. Prog. Ser. C. E.* 25, 4 p. 1950? 100 K13Ro
- 1103 CLAPP, A. L. Cooperative wheat fertility tests, 1950. *Kans. Agr. Expt. Sta. Rpt. Prog. Ser. C. E.* 24,6 p. 1950? 57.9 K13
- 1104 CLARK, J. A. Wheat varietal surveys, North Dakota, 1949. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:24-28. Sept./Oct.1950. 100 N813B
- 1105 CLYDESDALE, C. S. Wheat growing in Queensland. *Queensland Agr. J.* 71:1-12. (Cont.) July 1950. 23 Q33
- 1106 COMERIO, N. H. Los sorgos graníferos han resistido bien la sequia. *Mundo Agr.* 2(15):56-58. Aug. 1950. 9 M92
- 1107 CORN IMPROVEMENT CONFERENCE. NORTH CENTRAL REGION. Report, eleventh conference, Chicago, Illinois, February 3 and 4, 1950. Beltsville, Md., 1950. 56 p. 59.9 C81
- 1108 CRAWFORD, A. Wheat-growing in New Zealand. *New Zeal. Farmer* 71:7. Aug.17,1950. 23 N484
- 1109 DREIER, A. F., and EHLERS, P. L. Nebraska outstate varietal tests of fall-sown small grains, 1950; winter wheat, winter barley, rye. *Nebr. Agr. Expt. Sta. Outstate Testing C.* 9,14 p. Aug.1950. 100 N27O
- 1110 DREUZY, R. DE. L'évolution de la culture du blé en Vendée. *Potasse* 24:151-153. Oct.1950. 57.8 P84
- 1111 DU COURTILS, A. Comment hybrider vous-même le maïs? *Vie à la Campagne* 39:231-233. July 1950. 80 V67
- 1112 DURME, J. VAN. Tendances actuelles dans l'amélioration des froments et des orges de brasserie. *Petit J. du Brasseur* 58:789-794. Oct.13,1950. 390.8 P44
- 1113 ELAGIN, V. Odesskafā-3 [new winter wheat variety]. (In Russian.) *Molod. Kolkhoz.* 17(6):15-17. June 1950. 110 M73
- 1114 ELSUKOV, M. P., and GROMOVA, L. I. Corn for silage in the non-black earth area [U. S. S. R.]. (In Russian.) *Sofsiālist. Zhivotn.* 12(4):45-49. Apr.1950. 49 So71
- Culture chiefly.
- 1115 ERWIN, A. T. The origin and history of popcorn. *Econ. Bot.* 4:294-299. Ref. July/Sept.1950. 450 Ec7
- 1116 ÉTUDES agronomiques sur le riz au Soudan Français effectuées par le Service Agronomique de l'Office du Niger. *Agron. Trop.* 5:339-365. (To be cont.) July/Aug.1950. 26 Ag86
- Experiments in rice cultivation.
- 1117 FERGUSON, I. A. C. Scientific problems of hybrid maize. *Rhodesian Farmer* 4(5):19. Aug.2,1950. 24 R347
- 1118 FERNANDO, L. H. The performance of the salt-resistant paddy, Pokkali, in Ceylon. *Trop. Agr. [Ceylon]* 105:124-126. July/Sept.1949. 26 T751
- 1119 FERNANDO, L. H. Studies in Ceylon paddies. 1. Investigations on varieties grown in the Hambantota District. *Trop. Agr. [Ceylon]* 105:162-170. Oct./Dec. 1949. 26 T751
- 1120 FERNANDO, Z. The Mazzoli hybrid so-called. (In Italian.) *Agr. Tosc.* 5:367-368. Oct.1950. 16 Ag827
- Wheat.
- 1121 FUMELLI, A. Advice to the grain producers of the Province of Pisa. (In Italian.) *Agr. Tosc.* 5:297-306. Aug.-Sept.1950. 16 Ag27
- Wheat.
- 1122 FUNK BROTHERS SEED CO. Corn data notebook. Bloomington, Ill., 1949. 64 p. 59.22 F963
- Hybrids.
- 1123 GIORGINI, G. Grain directives to the producers of Aretina at the beginning of the new 1950-51 season. (In Italian.) *Agr. Tosc.* 5:293-296. Aug.-Sept. 1950. 16 Ag27
- Wheat.
- 1124 GONÇALVES, P. A. Planting rice in Arkansas. (In Portuguese.) *Lav. Arroz.* 4(43):9,11-12,14-16. July 1950. 59.8 L39
- 1125 GORBUNOV, G. Corn, beans and soybeans—in northern regions. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):42. June 1950. 281.8 K83
- 1126 GOSI, L. For the next grain season/ (In Italian.) *Agenzia Romana Note e Inform. Agr.* 58:5-6;59:6-7. Sept.6-9,1950. 281.8 Ag3
- Varieties and planting.
- 1127 HASKELL, G. Maize in a modern world. *New Biol.* 8:36-50. Apr.1950. 442.8 J63
- 1128 HEDLIN, R. Breeding better barley. *Country Guide* 69(9):11,32-33. Sept.1950. 7 G76
- 1129 HERNÁNDEZ XOLOCOTZI, E., and RAN-DOLPH, L. F. Descripción de los *Tripsacum* diploides de México: *Tripsacum maizar* y *Tripsacum zopilotense*, spp. nov. *Mex. Sec. de Agr. y Ganad. Fol. Téc.* 4,28 p. Ref. July 1950. 8 M577F
- English summary.
- 1130 HILLESTAD, O. The new harvesting methods and the grain quality. (In Norwegian.) *Norsk Landbr.* 16: 273-277. (Cont.) July 21,1950. 11 N8122
- 1131 HOLDEN, E. D. Qué es el maíz híbrido? *Charla Rur.* 134:4-5. Nov.1949. 9 C37
- 1132 HOLLEMBEAK, H. D., and SCHALLER, C. W. Barley varieties studied under local conditions. *West. Feed & Seed* 5(9):19-20. Sept.1950. 389.78 W52
- 1133 IVANOFF, S. S., and others. Tests of 35 oat varieties in five areas summarized. *Miss. Farm Res. [Miss. Sta.]* 13(9):1,8. Sept.1950. 100 M69Mi
- D. Bowman, B. L. Arnold, B. C. Hurt, Jr., S. L. Wedgeworth, C. L. Blount, and H. A. Johnson, joint authors.
- 1134 KAS'ANOV, F. Experimental sowing of branching wheat under the cover of shelterbelts. (In Russian.) *Les i Step'* 2(6):72. June 1950. 99.8 L565
- 1135 KERLE, W. D. Maize sowing recommendations for 1950; hybrid strains and open-pollinated varieties. *Agr. Gaz. N. S. Wales* 61:399-402. Aug.1,1950. 23 N472
- 1136 KHAN, S., KHAN, A. R., and ASLAM, M. A new barley variety for the Punjab. (Abs.) *Co-op. & Mktg. Rev.* 4:245. July 1950. 280.28 C78243
- 1137 KING, G. H. Oats—for grazing and grain. *Prog. Farmer, Ga.-Ala.-Fla. Ed.* 65(10):120-121. Oct. 1950. 6 P945G
- Chiefly culture.
- 1138 KOTUKOV, G. N. Method for obtaining hybrid seeds of buckwheat. (In Russian.) *Selek. i Semen.* 17(5): 63-65. May 1950. 61.9 Se5
- 1139 KRUISBRINK, A. M. The Osiris grain. (In Dutch.) *Nederlandse Ver. tot Bevord. der Biol.-Dyn. Landmethode. Vruchtbare Aarde* 8:48-53. June 1950. 80 N28
- Wheat.
- 1140 KÜNZEL, M. On the Rudolf Steiner wheat. (In Dutch.) *Nederlandse Ver. tot Bevord. der Biol.-Dyn. Landmethode. Vruchtbare Aarde* 8:47-48. June 1950. 80 N28
- 1141 KUPERMAN, F. M. Experiment in controlling variability of barley spikes on the basis of phasic analysis of developmental conditions. (In Russian.) *Selek. i Semen.* 17(5):11-22. May 1950. 61.9 Se5
- 1142 KUZ'MIN, V. P. Selection of winter rye at Shortandinskafā State Breeding Station. (In Russian.) *Selek. i Semen.* 17(6):13-21. June 1950. 61.9 Se5
- 1143 LAVEZZINI, V. Toward higher grain production. (In Italian.) *Avvenire Agr.* 58:201-203. Sept.1950. 16 Av9
- Culture.



- 1144 LEIN, A. Asiatische weizensortimente. *Kühn-Arch.* 62:216-310. Ref. 1949. 105.8 H15Ku
- 1145 LUCHI, M. On the 1949-50 grain season in the Province of Leghorn. (In Italian.) *Agr. Tosc.* 5:307-310. Aug.-Sept. 1950. 16 Ag27  
Wheat culture.
- 1146 LUNGO, A. DEL. Hybrid corn seed is produced in Italy today. (In Italian.) *Agenzia Romana Note e Inform.* Agr. 67:8. Oct. 4, 1950. 281.8 Ag3
- 1147 MALCOLM, J. P. Classification of barley varieties in New Zealand. *New Zeal. J. Sci. & Technol.* A, Agr. Res. Sect. 30:305-328. Ref. Apr. 1949. 514 N48A
- 1148 MALIANI, C. San Pastore Strampelli. (In Italian.) *Agr. delle Venezie* 4:242-245. Aug. 1950. 16 Ag826  
Wheat variety.
- 1149 MALIANI, C. A wheat for central Italy: "Com-mandante Strampelli" of Nazareno Strampelli. (In Italian.) *Glor. di Agr.* 60:286. Sept. 10, 1950. 16 It1G
- 1150 MARCHENKO, F. D. Winter wheat plantings on stubble. (In Russian.) *Agrobiologiya* 1950(3):153-154. May/June 1950. 20 Ag822
- 1151 MARCHI, V. Favorable prospects for hybrid corn. (In Italian.) *Glor. di Agr.* 60:327. Oct. 15, 1950. 16 It1G
- 1152 MASSACESI, A. Results and teachings of a contest: grain directives for the Province of Firenze. (In Italian.) *Agr. Tosc.* 5:285-292. Aug.-Sept. 1950. 16 Ag27  
Wheat culture.
- 1153 MEYERSON, R. F. Distribution of winter wheat in the grass-field crop rotations of Western Siberia and Northern Kazakhstan. (In Russian.) *Sovet. Agron* 8(6):85-87. June 1950. 20 So84
- 1154 MENEZES, O. B. DE. From common corn to hybrid corn. (In Portuguese.) *Lav. Arroz.* 4(43):37. July 1950. 59.8 L39
- 1155 MIAGKOV, N. V. Growing corn in Puchezh [Ivanovo Region]. (In Russian.) *Selek. i Semen.* 17(7):76-77. July 1950. 61.9 Se5
- 1156 MIDWEST BARLEY IMPROVEMENT ASSOCIATION. Progress report, annual meeting, Milwaukee, Wisconsin, November 9, 1950. n.p., 1950. 40 p. 59.9 M582
- 1157 MODENA, A. Technical achievements in the field of mountain grain culture. (In Italian.) *Agr. Tosc.* 5:319-329. Aug.-Sept. 1950. 16 Ag27  
Wheat.
- 1158 MONACI, M. New varieties of wheat in the Chiana Valley. (In Italian.) *Agr. Tosc.* 5:331-334. Aug.-Sept. 1950. 16 Ag27
- 1159 NATIONAL INSTITUTE OF AGRICULTURAL BOTANY. Varieties of winter wheat; recommended list. *Natl. Inst. Agr. Bot. Farmers' L.* 8, 4 p. Aug. 1950. 103 N21F
- 1160 NICHOLSON, H. Make the most of cereals. *Farmer & Stock-Breeder* 64:2523-2524. Aug. 29, 1950. 10 F228  
Culture on a farm in England.
- 1161 OSTREĖKOVSKIĖ, M. M., and ZARETSKIĖ, A. F. *Agrotekhnika pshenitsy* [Cultural practices for wheat]. Smolensk, Smolenskoe Obl. Gos. Izd-vo, 1950. 51 p. 59.26 Os7
- 1162 PACCHIEROTTI, F. New and old varieties of grain in the agriculture of Pistoia. (In Italian.) *Agr. Tosc.* 5:318. Aug.-Sept. 1950. 16 Ag27  
Wheat.
- 1163 PARKER, J. H. What's new in barley? 2-3. *Grain & Feed J.* Consolidated 105(4):19-20; (5):15. Aug. 23-Sept. 13, 1950. 298.8 G762
- 1164 PAVEZ SAA, D. Resultados experimentales con avena para pastoreo y producción de granos. *Agr. Austral* 18:307-313. July 1950. 9.3 Ag842
- 1165 PETELINA, N. N. Methods for developing buckwheat varieties of high and stable yields. (In Russian.) *Selek. i Semen.* 17(7):37-41. July 1950. 61.9 Se5
- 1166 PIACCO, R. First steps in the organization of selectors of rice. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:218-219. Aug. 15/30, 1950. 16 C72
- 1167 PISAREV, V. E. On the road to high yields of buckwheat. (In Russian.) *Sovet. Agron.* 8(6):51-56. June 1950. 20 So84
- 1168 PFEIFFER, R. Aktuelle fragen der getreide-züchtung. *Bundesanst. f. Alpine Landwirt. Veröffentl.* 3: 99-116. Ref. 1950. 19 Ad6
- 1169 ROCASOLANO, C. Maíces híbridos. *Cult. Mod.* 33:243-245. July 1950. 15 C89
- 1170 ROSI, R. Preparation for the 1950-51 grain season. (In Italian.) *Agricoltura* [Perugia] 7(18):3. Sept. 16/30, 1950. 281.8 Ag822  
Wheat culture.
- 1171 SÃO JOSÉ, A. S. Hybrid corn. (In Portuguese.) *Rev. Ceres* 8:286-294. Jan./June 1950. 9.2 C332
- 1172 SCASSO, J. M. El cultivo del trigo. *Argentina. Min. de Agr. Almanaque* 25:431-436. 1950. 9 Ag874
- 1173 SCHROEDER, N. Hybrid corn—improves on nature; fourteen years of growth and testing go into perfecting an inbred strain—but the results justify all the hard work and expense. *Flying Plowman* 4(6):1-2. June 1950. 58.8 F67
- 1174 SERGEEV, V. Z. To reconstruct selection and seed production work with local barleys [in Rostov Region]. (In Russian.) *Selek. i Semen.* 17(7):45-48. July 1950. 61.9 Se5
- 1175 SHESTAKOV, V. E. Winter wheat, Petrov-skaia 7. (In Russian.) *Selek. i Semen.* 17(7):73-74. July 1950. 61.9 Se5
- 1176 SIRRI, A. Protection of 0-10 wheat. (In Italian.) *Glor. di Agr.* 60:269. Aug. 27, 1950. 16 It1G  
Italy.
- 1177 SOLDANI, R. Looking forward to the planting season. (In Italian.) *Agr. in Prov. di Varese* 22(10):1. Oct. 1, 1950. 16 Ag8265  
Wheat culture.
- 1178 SROKA, K. H. Aus der geschichte und verbreitung der getreidepflanzen. *Nat. u. Nahr.* 4(13/14):1-3. July 1950. 80 N218
- 1179 STRAND, E. Results of variety tests of winter wheat. (In Norwegian.) *Norsk Landb.* 16:308-311. Aug. 18, 1950. N8122
- 1180 THROCKMORTON, R. I. Objectives in wheat breeding. *Nowest. Miller* (Milling Prod. Sect.) 244(2): 13a-14a. Oct. 10, 1950. 298.8 N81
- 1181 VANNUCCINI, G. Varieties for central Italy. (In Italian.) *Glor. di Agr.* 60:270. Aug. 27, 1950. 16 It1G  
Grain.
- 1182 VINOGRADOVA, N. M. Free intervarietal crossing in oats and barley. (In Russian.) *Selek. i Semen.* 17(5):74. May 1950. 61.9 Se5
- 1183 VOLANTI, U. Embarrassment of selection. (In Italian.) *Glor. di Agr.* 60:286. Sept. 10, 1950. 16 It1G  
Wheat breeding.
- 1184 VOLANTI, U. The new grain varieties. (In Italian.) *Agr. Bresciana* 3(39):1. Sept. 27, 1950. 16 Ag89  
Wheat.
- 1185 WIDAKAS, W., WIDDIFIELD, R. B., BRIGGLE, L. W. 1949 hybrid corn field trials. *N. Dak. Agr. Expt. Sta. Agron. Mimeog.* C. 82, 24 p. Jan. 1950. 100 N813A
- 1186 ZAKHARZHEVSKIĖ, A. A. Hybrids of Timofeevi wheat [Triticum timopheevi]. (In Russian.) *Selek. i Semen.* 17(7):19-25. July 1950. 61.9 Se5
- 1187 ZHDANOV, A. P. Winter wheat, Odesskaia 3, in Stavropol Territory. (In Russian.) *Selek. i Semen.* 17(7):65-67. July 1950. 61.9 Se5
- 1188 ZUCCHINI, M. Varietal tests for grain. (In Italian.) *Agr. Ferrarese* 54:145-148. July 31, 1950. 16 Ag87

## Fiber Crops

- 1189 AFZAL, M., and BHATTI, A. K. Agronomic studies on the cotton crop in the West Punjab. *Pakistan J. Sci. Res.* 1:1-14. Jan. 1949. 475 P173
- 1190 ARGENTINA. DIRECCION GENERAL DE FOMENTO AGRICOLA. Consejos prácticos para el agricultor algodoner. *Argentina. Min. de Agr. Almanaque* 25:289-295. 1950. 9 Ag874
- 1191 BALLS, W. L. Natural selection in Egypt's cotton crop. *Empire Cotton Growing Rev.* 27:243-259. Ref. Oct. 1950. 72.8 Em7
- 1192 BARSUKOV, G. M., and SHIMICHEV, A. Kenaf [Kenaf Hibiscus]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 31 p. 73.2 B28
- 1193 CARO PARDO, R. Estudio agrícola del ramio. *Rev. Nac. de Agr. [Bogotá]* 44(543):20-22. July 1950. 9.4 R32  
Culture and processing.
- 1194 CHEVALLARD, A. Cultivo y utilización del ramio. *Cult. Mod.* 33:260-262. July 1950. 15 C89



- 1195 COUTINHO, J. DE M. Cotton culture. (In Portuguese.) Soc. Rur. Brasil. Rev. 30(356):52-56. July 1950. 9.2 B733
- 1196 FRÖIER, K. Svalöf's spinning flax Gerda and Margareta. (In Swedish.) Lin 4:49-52. July 1950. 73.18 L63
- 1197 HUBBARD, J. L., and others. Cotton variety tests in the Lower Rio Grande Valley, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1273, 6 p. Sept. 15, 1950. 100 T31P  
C. A. Burleson, P. W. Leeper and W. R. Cowley, joint authors.
- 1198 HUBBARD, J. R., JR. Land preparation and early planting bring high cotton yields. Agr. Leaders' Digest 31(8):24, 26. Sept. 1950. 275.28 Am3
- 1199 INDIAN CENTRAL COTTON COMMITTEE, BOMBAY. The Indian Central Cotton Committee and its work. Bombay? 1949. 40 p. 72.9 In233In
- 1200 JEWITT, T. N., and MIDDLETON, K. R. Dyeing of cotton seed. Empire Cotton Growing Rev. 27:275-276. Oct. 1950. 72.8 Em7
- 1201 KAPRALOVA, N. P. Native varieties of jute. Selekt. i Semen. 17(6):42-45. June 1950. 61.9 Se5
- 1202 KHAN, A. H., and AFZAL, M. Vicinism in cotton. (Abs.) Co-op. & Mktg. Rev. 4:246. July 1950. 280.28 C78243
- 1203 LABRIEGO, J. Se podría cultivar el esparto en el Noroeste Argentino. Chacra 20(238):68-69. Sept. 1950. 9 C34
- 1204 LAGRONE, W. F. Cotton growing in southeastern Oklahoma; a comparison of present methods and recommended practices. Okla. Agr. Expt. Sta. B. B-358, 32 p. Sept. 1950. 100 Ok4
- 1205 LOW, A. S. Cultivation of jute. Jute & Gunny Rev. 2:269-271. May 1950. 73.38 J983
- 1206 MEEK, W. E., and SMITH, H. P. Improvements in production practices. In Advances in agronomy, v. 2, p. 40-50, 78-79. Ref. New York, Acad. Press, 1950. 30 Ad9  
Cotton.
- 1207 MIKAILOV, M. A. Intravarietal crossing of cotton. (In Russian.) Selekt. i Semen. 17(7):42-44. July 1950. 61.9 Se5
- 1208 O'KELLY, J. F. Cotton varieties and breeding. In Andrews, W. B., ed. Cotton production, marketing and utilization, p. 19-53. Ref. State College, Miss., 1950. 280.372 An22
- 1209 PIERIS, H. A. Progress of cotton cultivation in the southeastern division with special reference to the Village Cotton Purchase Scheme. Trop. Agr. [Ceylon] 105:117-123. July/Sept. 1949. 26 T751
- 1210 RICHMOND, T. R. Breeding and improvement. In Advances in agronomy, v. 2, p. 63-74, 80. Ref. New York, Acad. Press, 1950. 30 Ad9  
Cotton.
- 1211 SHAW (E. A.) & CO. American-Egyptian cottons; a brief history of their development and description of their characteristics, 1900-1950. Boston, 1950. 18 p. 72 Sh2
- 1212 SHISHIKIN, E. A. Honeybees and cotton. (In Russian.) Pchelovodstvo 27:202-205. Apr. 1950. 424.8 P295  
Pollination.
- 1213 SIZOV, I. A. Development of highly-productive forms of fibre flax. (In Russian.) Agrobiologiya 1950(3):70-77. May/June 1950. 20 Ag822
- 1214 SMITH, H. P. Cultural practices. In Andrews, W. B., ed. Cotton production, marketing and utilization, p. 135-171. Ref. State College, Miss., 1950. 280.372 An22
- 1215 SMITH, H. P. Harvesting cotton. In Andrews, W. B., ed. Cotton production, marketing and utilization, p. 206-240. Ref. State College, Miss., 1950. 280.372 An22
- 1216 SPIER, R. California research leader tells of new strains of western cotton. Cotton Digest 23(4):7, 10. Oct. 14, 1950. 286.82 C822
- 1217 TIRADO T., A. El fique. Rev. Nac. de Agr. [Bogotá] 44(543):24-27. July 1950. 9.4 R32  
Culture, diseases, and pests.
- 1218 U. S. EXTENSION SERV. Better utilization of Weather Bureau information for cotton. Washington, 1950. 11 p. 1.913 A2B46
- 1219 U. S. PRODUCTION AND MARKETING ADMIN. Good planting seed will be a key factor in cotton production in 1951. U. S. D. A. PA-137, 2 p. Oct. 1950. 1 Ag84Pro
- 1220 VIERDICH, W. Früh- oder spätfachs. Hannoverische Land- u. Forstwirt. Ztg. 103:557. June 10, 1950. 18 H194
- 1221 VIERDICH, W. Zum flachsanbau. Hannoverische Land- u. Forstwirt. Ztg. 103:361-362. Apr. 8, 1950. 18 H194
- 1222 VIZGIN, V. A. System of crisscross cultivation of cotton in the non-irrigated districts of U.S.S.R. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(8):26-32. 1950. 20 Ak1

## Forage Crops and Grasses

- 1223 AAMODT, O. S. Problems in breeding pasture plants. Internatl. Grassland Cong. Rpt. 5:77-83. 1949. 60.19 In85R  
Includes discussion.
- 1224 ADAMS, V. E. He helps the South plant pastures. Prog. Farmer, Ga.-Ala.-Fla. Ed. 65(10):17. Oct. 1950. 6 P945G
- 1225 AHLGREN, G. H., and FUELLEMAN, R. F. Ladino clover. In Advances in agronomy, v. 2, p. 207-232. Ref. New York, Acad. Press, 1950. 30 Ad9
- 1226 AHLGREN, H. L., and BURCALOW, F. V. Bromegrass & alfalfa for hay, pasture or silage. Wis. Agr. Col. Ext. C. 344, rev., 12 p. June 1950. 275.29 W75C
- 1227 AHLGREN, H. L. Meet summer pasture shortages with Sudan grass. Wis. Agr. Col. Ext. C. 224, rev., 8 p. July 1950. 275.29 W75B
- 1228 AINSWORTH, J. C., JR. Some pointers on blue panic [Panicum antidotale] grass planting. Sowest. Crop & Stock 4(9):22-23. Sept. 1950. 6 So8942
- 1229 ALEKSEEV, M. A. Organizing continuous green feed production on collective farms in Kuibyshev Region. (In Russian.) Sotsialist. Zhivotnovod. 12(5):34-36. May 1950. 49 So71
- 1230 ALEKSEEV, M. A. Zelënyĭ konveĭer [Planned continuous production of green feed]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 143 p. 60 AL2Z  
Leguminous plants and grasses.
- 1231 ALLRED, B. W. Bluestem on the Longhorn trails. J. Soil & Water Conserv. 5:151-157, 198. Oct. 1950. 56.8 J822
- 1232 ANDERSEN, J. C. Culture of alfalfa seed. (In Danish.) Tidsskr. f. Frøavl 20:34-35. Sept. 1950. 61.8 T43
- 1233 ANDERSEN, J. C. Methoden und probleme des grassamenanbaus in Dänemark. Internatl. Grassland Cong. Rpt. 5:121-128. 1949. 60.19 In85R  
English summary.  
Includes discussion.
- 1234 ANDERSEN, J. C. Prospects for the seed crops 1950. (In Danish.) Tidsskr. for Frøavl 20:14-22. Aug. 1950. 61.8 T43  
Forage plants.
- 1235 ANGELL, G. N. Lotus major [Lotus uliginosus], amazing legume reclaims fern hills and tidelands. Oreg. Farmer 72:691, 720. Sept. 15, 1950. 6 Or32
- 1236 ARAUJO E SILVA, O. B. DE. Some information about alfalfa. (In Portuguese.) Lav. Arroz. 4(43):35-36. July 1950. 59.8 L39
- 1237 ARNOLD, B. L., and CROCKETT, S. P. Crops compared in North Mississippi experiments. Miss. Farm Res. [Miss. Sta.] 13(8):7. Aug. 1950. 100 M69Mi  
Forage plants for winter grazing of beef-type steer calves.
- 1238 BARAEV, A. I., and BASHMAKOV, N. I. Work with perennial legumes and grasses at the Ural State Breeding Station. (In Russian.) Selekt. i Semen. 17(6):22-30. June 1950. 61.9 Se5
- 1239 BARNES, O. K., LANG, R. L., and BEETLE, A. A. Dryland grass seedling in Wyoming. Wyo. Agr. Expt. Sta. B. 299, 22 p. June 1950. 100 W99
- 1240 BARTENEV, F. I. Vyrashchivanie semĭan lŭtsernyĭ i zhitniĭaka (opyt raboty sovkhoza "Kotluban") [Growing seeds of alfalfa and wheat grass (Work practices of Katluban Sovkhoz)]. Stalingrad, Obl. Kn.-vo, 1950. 22 p. 60.3 B284
- 1241 BELL, J. E. Seeding rates for pastures on ploughable land in Auckland Province. New Zeal. J. Agr. 81:113, 115-116. Aug. 1950. 23 N48J
- 1242 BENDER, C. B. Pasture in the livestock program. Amer. Soc. Farm Mgr. & Rur. Appraisers J. 14:91-93. Oct. 1950. 281.8 Am32



- 1243 BENFORD, H. Year-round grazing means year-round work. *Prog. Farmer, Ga.-Ala.-Fla. Ed.* 65 (10):16,136. Oct.1950. 6 P945G
- 1244 BENNETT, H. W. Pastures for Mississippi. *Miss. Agr. Expt. Sta. C.* 151,16 p. Feb.1950. 100 M69
- 1245 BINNIE, L. H. Planned forage production and fertilization pay. *Better Crops Plant Food* 34(8):6-8. Oct.1950. 6 B46
- 1246 BLIN, H. La méthode Warmhold et la fumure des herbage. *Agr. Prat.* 114:395-396. Sept.1950. 14 J82
- A system of dairy cattle grazing.
- 1247 BODDY, H. Pasture pioneers. *West. Livestock J.* 28(54):38,94,96-98. Sept.15,1950. 6 F2278
- 1248 BRECHER, J. Seeds and fruits deprived of their outer cases in view of those who are concerned in seed-culture. (In Czech.) *Českoslov. Akad. Zeměděl. Sborn.* 22:574-585. 1950. 19.5 C332C
- English summary.
- Gramineae, Leguminosae, and Compositae.
- 1249 BREIREM, K. Artificial drying of grass in Holland. (In Norwegian.) *Norsk Landbr.* 16:365-367. Sept.29,1950. 11 N8122
- 1250 BREIREM, K. Results and prospects of artificial drying of grass. *Internatl. Grassland Cong. Rpt.* 5: 278-287. 1949. 60.19 In85R
- Includes discussion.
- 1251 BROOM, R. C. How to seed a high profit crop—pasture. *Prairie Farms News* 3(10):1,3. Oct. 1950. 280.28 P882
- 1252 BUISMAN, B., and PECHANEC, J. F. Range reseeding. *Pacific Grange Farmer* 1950:1-2,9. Oct. 1950. 6 P115
- 1253 BUZI, V. C. Basic research on the composition of natural pastures. (In Italian.) *Agr. Nuova* 2:279-290. June 1950. 16 Ag8223
- Italy.
- 1254 BUZI, V. C. Better utilization of mountain pastures; classification and use. (In Italian.) *Agr. Nuova* 2:322-334. June 1950. 16 Ag8223
- Italy.
- 1255 CALMA, V. C., and CABRERA, S. G. A trial culture of alfalfa. *Philippine Agr.* 33:97-102. Oct./Dec. 1949. 25 P542
- 1256 CAPULER, B. The cultivation of purple vetch in Israel. *Hassadeh* 30:542-543. July 1950. 26 H27
- In Hebrew.
- 1257 CEVALLOS CUEVA, N. Importancia de los prados y potreros. *Rev. de Divulg. Agr.* 41:31-37. Apr. 1950. 9.5 R32
- Ecuador.
- 1258 CHAMBLEE, D. S., and WOODHOUSE, W. W., JR. How to pick the best in Ladino. *Carolina Co-op.* 28(9):11,28. Sept.1950. 72.8 N81
- 1259 CHERNOMAZ, P. High yields of clover seeds in the year it is seeded. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):28. June 1950. 281.8 K83
- 1260 CHIZHIKOV, N. V. Wild growing clovers in Faroslav Region. (In Russian.) *Selekt. i Semen.* 17(6):31-37. June 1950. 61.9 Se5
- 1261 CIDRAES, A. Cala vetch. (In Portuguese.) *Azores. Comis. Regulad. dos Cereais.* B. 6(12):89-92. Second Semes.1950. 15 Az6
- A sub-species of *Vicia sativa*.
- 1262 COGNETTI DE MARTIIS, S. Improvement of forage plants and seeds. (In Italian.) *Agr. delle Venezie* 4:158-161. June/July 1950. 16 Ag826
- 1263 COOK, C. W., and STODDART, L. A. Seeding ranges to grass requires proper methods and hardy varieties. *Farm & Home Sci. [Utah Sta.]* 11:52-53,56. Sept. 1950. 100 UtlF
- 1264 COSLINE, H. Sold on birdsfoot trefoil. *Amer. Agr.* 147:509,522. Sept.16,1950. 6 Am3
- 1265 CRANE, B. K. Condition and grazing capacity of wet meadows on the east slope of the Sierra Nevada Mountains. *J. Range Managt.* 3:303-307. Oct.1950. 60.18 J82
- 1266 CURRIE, J. R. Pasture management. *Agr. Econ. Soc. J. Proc.* 8:121-138. Apr.1949. 281.9 Ag8
- Includes discussion.
- 1267 DAMERON, Z. C., JR. Give your grass a break; West Texas rancher succeeds in restoring pasture with range management program. *Cattleman* 37(5): 139-140. Oct.1950. 49 C29
- 1268 DAVIDSON, H. R. Cattle can restore the uplands; combined with sheep they increase returns from mountain grazings. *Farmer & Stock-Breeder* 64:2652-2653. Sept.26,1950. 10 F228
- 1269 DAVIES, R. O., MILTON, W. E. J., and LLOYD, J. R. Pasture productivity in Mid-Wales. I. experimental methods of measurement. *Empire J. Expt. Agr.* 18:203-217. July 1950. 10 Em7
- 1270 DAVIES, W. Permanent grass and leys in Britain. *Internatl. Grassland Cong. Rpt.* 5:179-190. 1949. 60.19 In85R
- Includes discussion.
- 1271 DAVIS, J. N. Aristocrat of hays, alfalfa invades new realm; boron spreads 'green gold' from mountain slopes to banks of brackish coastal streams throughout the Southeast. *South. Seedsman* 13(10):18,58. Oct.1950. 61.8 So8
- 1272 DUNCAN, E. R. Your pasture can be improved. *Hormel Farmer* 14:4-5. Sept.15,1950. 49 H782
- 1273 DWYER, C. H. A method of computing conservation benefits of a range program. *J. Soil & Water Conserv.* 5:115-124,126. July 1950. 56.8 J822
- 1274 ELEAZER, J. M. A blanket of green for South Carolina. *Prog. Farmer, Carolinas-Va. Ed.* 65(10):16, 136. Oct.1950. 6 P945
- Campaign for all-winter grazing.
- 1275 ELEAZER, J. M. Can you make 10-cent beef? *Farm J.* 74(11):70-71. Nov.1950. 6 F2212
- Pasture management in the Southeast.
- 1276 ELSUKOV, M. P., and KONIUSHKOV, N. Pastbishchnoe soderzhanie skota v nechernozemnoi polose [Maintenance of livestock in pastures in the non-black earth area]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry,* 1950. 55 p. 60.1 EL7
- 1277 ELSUKOV, M. P. Planned improvement of feeds. (In Russian.) *Sovet. Zootekh.* 5(5):37-46. May 1950. 49 So822
- Breeding and culture of forage crops.
- 1278 EVANS, G. Conditions for certification of herbage seed crops. *Internatl. Grassland Cong. Rpt.* 5:115-120. 1949. 60.19 In85R
- Includes discussion.
- 1279 EVERSON, A. C. Improving the range. *Prog. Agr. Ariz.* 2(3):7,11. Oct./Dec.1950. 6 P9452
- 1280 FOSTER, A. B. Gosh, what a pasture system! *Successful Farming* 48(10):44,146-148. Oct.1950. 6 Su12
- 1281 FOSTER, R. L. Treat pasture like a crop. *Capper's Farmer* 61(10):20,69. Oct.1950. 6 M693
- 1282 FREDERICKSON, K. Back to grass on the sandhills fringe. *Nebr. Farmer* 92(19):8,48. Oct.7,1950. 6 N27
- Planting intermediate wheatgrass in Nebraska.
- 1283 GARBER, R. J., and MYERS, W. M. Methods and techniques of breeding and maintaining grass strains. *Internatl. Grassland Cong. Rpt.* 5:89-94. 1949. 60.19 In85R
- Includes discussion.
- 1284 GEORGE, L. V. Ergot-hampered Dallis grass revived by healthier new strains. *South. Seedsman* 13(10): 17,57. Oct.1950. 61.8 So8
- 1285 GHISLENI, P. L. The growing of artificial pastures. (In Italian.) *Colt. e Glor. Vinic. Ital.* 96: 249-251. Sept.30,1950. 16 C72
- 1286 GOLOMAZOV, I. A. Accelerated increase of seeds of two-crop clover. (In Russian.) *Selekt. i Semen.* 17(5):46-48. May 1950. 61.9 Se5
- 1287 GONCHAR, A. I. Utilization of lupines for silvicultural purposes. (In Russian.) *Lesn. Khoz.* 3(4): 84-85. Apr.1950. 99.8 L562
- Effect on forest soils chiefly.
- 1288 GORSLINE, E. P. Antelope Valley's new alfalfa seed methods. *Calif. Farmer, North Ed.* 193:210. Sept.9,1950. 6 C126
- 1289 GRITSENKO, T. G. Free intervarietal hybridization of alfalfa. (In Russian.) *Agrobiologiya* 1950(3): 138-142. May/June 1950. 20 Ag822
- 1290 GROBELAAR, W. S. Cultivation of dryland lucerne. *Farming So. Africa* 25:234. July 1950. 24 So842
- 1291 HADFIELD, W. V. Re-seeding—without the plough. *Farmers Wk. [London]* 33(11):53,55. Sept.15, 1950. 10 F2226
- Technique of re-seeding rough hill land in New Zealand.



- 1292 HAFENRICHTER, A. L., MULLEN, L. A., and BROWN, R. L. Grasses and legumes for the Pacific Northwest. 2. Seed World 67(6):16,18,43. Sept.15,1950. 61.8 Se52
- 1293 HALL, R. S. The challenge of the range researcher. J. Range Mangt. 3:277-280. Oct.1950. 60.18 J82
- 1294 HANSON, H. C., and WHITMAN, W. C. Grassland resources. In Smith, G., ed. Conservation of natural resources, p.129-144. New York,Wiley,1950. 279.12 Sm5
- 1295 HARRIS, H. L. Why haven't farmers and ranchers taken to regrassing? J. Range Mangt. 3:287-290. Oct.1950. 60.18 J82
- 1296 HARRISON, C. M. How to settle an argument; legumes that volunteer often cause the charge of "dirty seed"; here is why and how the volunteering takes place. Hoard's Dairyman 95:688. Oct.10,1950. 44.8 H65
- 1297 HART, M. L. 'T. Yields of grassland in the Netherlands and the conditions affecting them. Internatl. Grassland Cong. Rpt. 5:236-239. 1949. 60.19 In85R
- 1298 HARVEY, C., SCHEMBER, V. E., and POTTS, R. C. Bur-clover and related species at the Brazos River Valley Laboratory. Tex. Agr. Expt. Sta. Prog. Rpt. 1278,2 p. Sept.27,1950. 100 T31P
- 1299 HARVEY, C., and POTTS, R. C. Winter annual legumes, Brazos River Valley Laboratory, 1949-50. Tex. Agr. Expt. Sta. Prog. Rpt. 1282,1 p. Oct.13, 1950. 100 T31P
- 1300 HEINRICHS, D. H., and BOLTON, J. L. Studies on the competition of crested wheatgrass with perennial native species. Sci. Agr. 30:428-443. Ref. Oct.1950. 7 Sci2
- 1301 HOFFORD, H. M. Season-long pasture. Better Crops Plant Food 34(8):44-45. Oct.1950. 6 B46
- 1302 HOPE, R. Ley farming on a Fylde [of Lancashire] farm. Gt. Brit. Min. Agr. Agriculture 57:261-264. Sept.1950. 10 G79J
- 1303 HOWELL, H. B., and KING, A. S. Forage crops for coast counties of Oregon. Oreg. State Col. Ext. B. 707,32 p. July 1950. 275.29 Or32B
- 1304 HUITEMA, H. Study, importance and use of grasses and land planted to grass. III-IV. (In Dutch.) Hemera Zoa 57:364-378,435-446. June-July 1950. 41.8 V51  
Indonesia.
- 1305 HURLBURT, R. W. New England crowns its green pastures kings for 1950. East. States Coop. 26(10):5-7. Oct.1950. 280.28 Ea7
- 1306 HURST, F. Louisiana finds pastures for buckshot. Prog. Farmer, Miss.-Ark.-La. Ed. 65(10):17, 136. Oct.1950. 6 So81  
Good pasture on poorly drained, heavy land.
- 1307 HURWITZ, S., YANIV, S., and GOLDIN, A. Sowing periods of fodder beets. Hassadeh 30:541-542. July 1950. 26 H27  
In Hebrew.
- 1308 HUTCHINSON, J. A pointer to bloat-proof leys? Farmers Wk. [London] 33(13):55. Sept.29,1950. 10 F2226  
Preventing bloat in cattle with fibrous grasses.
- 1309 INDIANA. PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. DIV. OF AGRONOMY. Bromegrass in Indiana. Purdue U. Agr. Ext. L. 310,8 p. 1950. 275.29 In2L
- 1310 INTERNATIONAL GRASSLAND CONGRESS, 5, NOORDWIJK, 1949. Report, containing full texts of all papers delivered on June 22, 23, 24, 25 and 26, 1949. The Hague, 1949. 349 p. 60.19 In85R  
Includes: Grassland and grassland husbandry in the Netherlands, by M. L. 'T. Hart, and D. M. De Vries, 24 p.
- 1311 JACKSON, N. Year-round grasses for dry ranges. Sowest. Crop & Stock 4(9):11. Sept.1950. 6 So8942
- 1312 JARRETT, G. Ash waste to productive ley. Field 196:409-410. Sept.9,1950. 10 F45  
Grass varieties and culture.
- 1313 JENKIN, T. J. Progress in breeding herbage plants in Great Britain. Internatl. Grassland Cong. Rpt. 5:95-100. 1949. 60.19 In85R  
Includes discussion.
- 1314 JOHNSEN, P. The mowing season—the hay stacking season. (In Norwegian.) Norsk Landb. 16:292-293. Aug.4,1950. 11 N8122
- 1315 JOHNSON, W. M., and HULL, A. C., JR. How to reseed parks and openings in the ponderosa pine zone in Colorado. U. S. Forest Serv. Rocky Mountain Forest & Range Expt. Sta. Paper 3,14 p. June 1950. 1.9622 R2St2
- 1316 JONES, B. J. Planes used to plant pastures in water; revolutionary technique used for trefoil. Calif. Cattleman 1950:14,16. Nov.1950. 43.8 C12
- 1317 JONES, J. M. Federal land reorganization. Mont. Stockgrower 22(9):16-18. Sept.15,1950. 49 M76  
Administration of grazing land.
- 1318 JONES, L. I. Some factors affecting the evaluation of herbage plants. Internatl. Grassland Cong. Rpt. 5:161-165. 1949. 60.19 In85R  
Includes discussion.
- 1319 JORDAN, A. T. Grass improvement depends upon use. Sheep & Goat Raiser 30(12):45. Sept.1950. 45.8 Sh3
- 1320 KALLIO, K. M. Community pastures in Finland. (In Swedish.) Lantmannen 34:733-734. Sept.23, 1950. 11 L234
- 1321 KALUGIN, M. I. Sainfoin as a component of the legume-grass mixtures in Kulundinskafä Steppe. (In Russian.) Sovet. Agron. 8(6):57-59. June 1950. 20 So84
- 1322 KALUGIN, M. I. Seed production of perennial legumes and grasses at Slavgorodskafä Gosselekstansfiä and on the collective farms in Kulundinskafä Steppe. (In Russian.) Selekt. i Semen. 17(8):44-50. Aug.1950. 61.9 Se5
- 1323 KARASHCHUK, I. M. Summer and autumn seeding of sainfoin with freshly-harvested seeds. (In Russian.) Sovet. Agron. 8(7):48-57. July 1950. 20 So84
- 1324 KATKOV, B. P., and CHIRKOVA, T. V. Dates for harvesting Sudan grass for seeds. (In Russian.) Selekt. i Semen. 17(7):59-62. July 1950. 61.9 Se5
- 1325 KEHRH. Leistungssteigerung über das grünland. Unser Milchvieh. Ausg. B/C 2(7,sup.:Kontangestellte):1-2. July 1950. 43.8 Un72
- 1326 KELLER, W. Rancher! Crested wheatgrass [Agropyron cristatum] is what you want. Farm & Home Sci. [Utah Sta.] 11:49. Sept.1950. 100 Ut1F
- 1327 KENNEDY, W. K. Simulated grazing treatments; effect on yield, botanical composition, and chemical composition of a permanent pasture. N. Y. (Cornell) Agr. Expt. Sta. Mem. 295,47 p. Ref. Aug.1950. 100 N48C
- 1328 KING, G. H. Pastures for the South. Danville, Ill., Interstate,1950. 311 p. Ref. 60.1 K58
- 1329 KLAPP, E. Fresszeit-besatzdichte—weideleistung. Deut. Landwirt. Presse 73(17):2. Aug.5,1950. 18 D482
- 1330 KOBLET, R. Verbesserung der dauerwiesen und weiden in der Schweiz. Internatl. Grassland Cong. Rpt. 5:211-217. Ref. 1949. 60.19 In85R  
English summary.  
Includes discussion.
- 1331 KOLOSOVA, A. V. Ispol'zovanie mnogoletnikh trav v kormovykh lugopastbishnykh sevooborotakh [Utilization of perennial legumes and grasses in meadow and pasture crop rotations]. Moskva,Gos. Izd-vo Selkhoz Lit-ry,1950. 53 p. 60.1 K835I
- 1332 KOSTOFF, D. The application of cytology to grass and clover breeding. Internatl. Grassland Cong. Rpt. 5:84-85. 1949. 60.19 In85R
- 1333 KRIEGER, F. Allgäuer grünlandwirtschaft. Allgäuer Bauernbl. 18:470-471. Aug.24,1950. 18 AL53
- 1334 LANGFORD, W. R. Studies in the establishment and management of birdsfoot trefoil (Lotus corniculatus) in Missouri. Mich. U. Microfilm Abs. 10(3):125-126. 1950. 241.8 M58
- 1335 LAVEZZINI, V. Alfalfa begins in July. (In Italian.) Avvenire Agr. 58:153-155. July 1950. 16 Av9  
Planting.
- 1336 LESPÉRANCE, R. Notes sur l'alpiste roseau (reed canary grass). Agriculture [Montreal] 7:164-171. Ref. Summer 1950. 7 Ag82  
Culture and utilization.
- 1337 LEVY, E. B. Intensive grassland farming in New Zealand. Internatl. Grassland Cong. Rpt. 5:224-235. 1949. 60.19 In85R  
Includes discussion.
- 1338 LIPES, V. E. Hyacinth Dolichos and Lathyrus— forage legumes. (In Russian.) Sośialist. Zhivotnovod 12(5):15-20. May 1950. 49 So71



- 1339 LØND, V. The fodder beet in Denmark. *Farming* [Norwich] 4:305-306,308. Oct.1950. 10 F2236 Includes culture.
- 1340 MCCULLOUGH (J. CHAS.) SEED CO. Farm and grass seed manual, comp. by W. E. Ward. Ed. 2. Cincinnati,1950. 148 p. Ref. 60 M132
- 1341 MACVICAR, R. M. Problèmes de recherche dans la production des semences fourragères. *Agriculture* [Montreal] 7:137-139. Summer 1950. 7 Ag82
- 1342 MAKAROVA, A. G. A prospective clover variety. (In Russian.) *Selekt. i Semen.* 17(6):45-47. June 1950. 61.9 Se5
- 1343 MARTIN, R. Murray County [Oklahoma] dairymen know how to make their pastures pay. *Farmer-Stockman* 53,i.e.63(9):10,34. Sept.1950. 6 Ok45
- 1344 MASS, D. Growing fodder plants for poultry. *Hassadeh* 30:543-545. July 1950. 26 H27 In Hebrew.
- 1345 MASS, D. The preparation and treatment of sown pasture. *Hassadeh* 30:539-540. July 1950. 26 H27 In Hebrew.
- 1346 MERRILL, L. P. Ranch lands in better condition as ranchmen become more grass conscious. *Sheep & Goat Raiser* 31:26. Oct.1950. 45.8 Sh3
- 1347 MISSOURI. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Better pastures an important part of balanced farming. *Columbia*,1950? 4 p.-folder. 275.2 M69Bp
- 1348 MODENA, A. Details on the use of "Erba altissima" in forage mixtures for the growing of mountain pastures. (In Italian.) *Agr. Tosc.* 5:378. Oct.1950. 16 Ag827
- 1349 MORITZ, F. L. Can you grow alfalfa? *Mo. Farmer* 42(9):3,15. Sept.1950. 6 M696
- 1350 MORTON, A. D. Sampling yields and utilization of browse on winter deer ranges in northern Idaho. (Abs.) *J. Forestry* 48:684. Oct.1950. 99.8 F768
- 1351 MUEGLER, W. F. Effects of spring and fall grazing by sheep on vegetation of the upper Snake River plains. *J. Range Mangt.* 3:308-315. Oct.1950. 60.18 J82
- 1352 MÜLLER. Mehr milch im hochsommer durch weidepflege, düngung und technik. *Unser Milchvieh.* Aug. B/C 2(7):3-4. July 1950. 43.8 Un72
- 1353 MULLIN, J. Utilización racional de un campo de pastoreo. *Charla Rur.* 134:14-15. Nov.1949. 9 C37
- 1354 MUNRO, J. A. Legume seed production. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:14-17. Sept./Oct. 1950. 100 N813B
- 1355 MURPHY, A. H. Hairy oatgrass, *Danthonia pilosa*, R. Br., as a weedy range grass. *Calif. Dept. Agr.* B. 39:118-124. Ref. July/Sept.1950. 2 C12M
- 1356 MURTON, T. A. The mower should be used all the year. *Rhodesian Farmer* 4(5):19,23. Aug.2,1950. 24 R347
- Veld management.
- 1357 MYERS, W. M. Forage—the keystone of our future agriculture. *Farm Impl. News* 71(19):40-41,95-97. Oct.10,1950. 58.8 F22
- 1358 MYERS, W. M. Grassland farming in the Northeast. *Breeder-Stockman* 12(5):59-62,64,102. Oct. 1950. 49 V81
- 1359 NIXON, W. M., and WEBSTER, C. B. King Ranch bluestem, new range grass. *Crops & Soils* 3:10-12. Oct.1950. 6 W55
- A strain of *Andropogon ischaemum*.
- 1360 NIXON, W. M. What to expect of hard-seeded crimson clover. *Prog. Farmer, Tex. Ed.* 65(10):17. Oct. 1950. 6 T311
- 1361 NOVA SCOTIA. DEPT. OF AGRICULTURE AND MARKETING. FIELD CROP SERV. Grass for prosperity; keep Nova Scotia green. *Halifax*,1949. 6 p.-folder. 60.1 N852
- 1362 NUNEZ, A. Cultivos forrajeros: la alfalfa. I-II. Uruguay. Min. de Ganad. y Agr. B. Inform. 327:15, 13;330:7. June 29,July 20,1950. 9.9 G15B
- 1363 OLESON, G. O. Farmers get the trophies but the cows win. *Farm J.* 74(10):38-39,178. Oct.1950. 6 F2212
- How to grow good pastures as shown by the Green Pastures Contest in New England.
- 1364 OLESON, G. O. Hurlburt wins Green Pasture Program; judges select Ashley Falls, Massachusetts, dairyman as winner of the All-New England contest following inspection of the farms of some 3016 contestants. *New Eng. Homestead* 123(18):10,14,30. Sept.23,1950. 6 N442
- 1365 OS'KIN, A. Combine harvesting of legume and grass seed plants. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):20-21. June 1950. 281.8 K83
- 1366 PANTANELLI, E. Seasonal adaptation in the increase of forage crops in the South. (In Italian.) In Milan. Istituto per gli Studi di Economia. Il problema agrario del mezzogiorno, p. 52-62. Milano,Istituto Editoriale Italiano,1950. 281.176 M58
- 1367 PARVIN, F. W. Is Florida's pasture development program at an economic crossroads? *Fla. U. Bur. Econ. & Business Res. Econ. L.* 9(5),4 p. Apr.1950. 280.9 F663
- 1368 PAUL, W. R. C. On the value of some legumes. *Trop. Agr. [Ceylon]* 105:109-116. Ref. July/Sept.1949. 26 T751
- 1369 PAVEZ SAA D. Variedades de avena para pastoreo y producción de granos. *Agr. Austral* 18:368-374. Aug.1950. 9.3 Ag842
- Chile.
- 1370 PECK, R. B. Ranching services: a challenge to rangemen. *J. Range Mangt.* 3:299-302. Oct.1950. 60.18 J82
- 1371 PEDERSEN, A. Seeds mixtures for leys in Denmark. *Internatl. Grassland Cong. Rpt.* 5:201-210. 1949. 60.19 In85R
- Includes discussion.
- 1372 PEREZ ABREU, L. La siembra del sorgo. *Campo [Tacuba]* (ser.2)18(701):74-76. July 31,1950. 8 C157
- 1373 PHILLIPS, R. W. Grassland and the world's food. *Internatl. Grassland Cong. Rpt.* 5:10-17. 1949. 60.19 In85R
- Includes discussion.
- 1374 POTRESOVA, M. A. New forms of yellow lupine [in AB-500 variety]. (In Russian.) *Agrobiologiya* 1950(3):152. May/June 1950. 20 Ag822
- 1375 PRINCE, F. S., and BLOOD, P. T. Pasture management investigations. *N. H. Agr. Expt. Sta. C.* 81, 15 p. June 1950. 100 N45
- 1376 QUEVEDO, C. V. Pastoreos en la región semiárida argentina. *Argentina. Min. de Agr. Almanaque* 25:353-355. 1950. 9 Ag874
- 1377 RECHENTHIN, C. A. Grasses and legumes for irrigated pastures. *Prog. Farmer, Tex. Ed.* 65(10): 16,119,128. Oct.1950. 6 T311
- 1378 RECHENTHIN, C. A. Range grasses of the Southwest; many "small family" grasses provide good forage. *Cattleman* 37(6):27,40,42,46. Nov.1950. 49 C29
- Species of *Setaria*, *Leptochloa*, *Trichachne*, *Trachypogon*, and *Heteropogon*.
- 1379 RECHENTHIN, C. A. Range grasses: *Paspalum*s grow well in moist areas. *Cattleman* 37(5):31-32, 37-38. Oct.1950. 49 C29
- 1380 RENNE, R. R. Range land problems and policies. In Timmons, J. F., and Murray, W. G., eds. *Land problems and policies*, p.105-134. Ref. Ames,Iowa State Col.Press,1950. 282 T48
- 1381 ROF CODINA, J. El kudzu ordinario. *Agr. Venezol.* 15(142):6-8. May 1950. 9.95 Ag8
- 1382 ROMANINI, A. Seed alfalfa. (In Italian.) *Avvenire Agr.* 58:162. July 1950. 16 Av9
- 1383 ROSENGURTT, B. Praderas naturales: los problemas de su manejo. *Asoc. de Ingen. Agron. Rev.* 21(86/87):11-16. Sept./Dec.1949. 290.9 As73
- 1384 ROWSELL, J. Herbage seeds as a crop. *Farmer & Stock-Breeder* 64:2515. Aug.29,1950. 10 F228
- 1385 RUSSELL, M. S-t-r-e-t-c-h your pasture. *Colo. Rancher & Farmer* 4(17):8. Sept.9,1950. 6 C714
- 1386 SASSER, J. R. "Grass peddler" aids pastures; traveling grass plots sell farmers on varieties. *Fla. Grower* 58(10):4,21. Oct.1950. 80 F6622
- 1387 SAUNDERSON, M. H. Western stock ranching. Minneapolis,U. Minn. Press,1950. 247 p. Ref. 60.1 Sa8
- Chiefly range management.
- 1388 SCHOPFLOCHER, R. El "pasto elefante" (*Pennisetum purpureum*, Schum.). *Argentina. Min. de Agr. Almanaque* 25:361-363. 1950. 9 Ag874



- 1389 SERGEEV, V. Z. To reject the customary methods in cultural practices for grass-legume mixtures [In Rostov Region]. (In Russian.) *Sovet. Agron.* 8(6):77-79. June 1950. 20 So84
- 1390 SHAPKIN, P. A. Feed production on Frunze Collective Farm. (In Russian.) *Sofsiolist. Zhivotn.* 12(4):54-56. Apr. 1940. 49 So71
- 1391 SHCHIBRIĀ, A. A. Improvement of natural characteristics of perennial forage plant and grass seeds. (In Russian.) *Selek. i Semen.* 17(7):56-59. July 1950. 61.9 Se5
- 1392 SHKABARA, A. S. Experiment in establishing a seeded meadow from a plowed natural meadow in the same year. (In Russian.) *Sovet. Agron.* 8(7):85-88. July 1950. 20 So84
- 1393 SIMONOV, S. N. Harvesting seeds of perennial leguminous plants and grasses from natural meadows and pastures. (In Russian.) *Sofsiolist. Zhivotnovod.* 12(5):21-29. May 1950. 49 So71
- 1394 SINISALO, J. Culture of meadow fescue seed. (In Swedish.) *Forsk.- och Försöksresultat* 2:32. May 31, 1950. 20 F77
- 1395 SJOLLEMA, B. The most favourable methods of grazing in connection with the requirements of dairy cows. *Internatl. Grassland Cong. Rpt.* 5:191-200. 1949. 60.19 In85R  
Includes discussion.
- 1396 SMELOV, S. P., and KONIUSHKOV, N. S. Improvement of meadows and pastures. (In Russian.) *Sofsiolist. Zhivotn.* 12(4):30-35. Apr. 1950. 49 So71
- 1397 SMITH, C. S. Design for maximum grazing. *Farmers Wk. [London]* 33(16):45-48. Oct. 20, 1950. 10 F2226  
Includes a grazing chart guide for laying down special-purpose leys to provide year-round grazing.
- 1398 SMITS, C. Some grassland problems. (In Dutch.) *Nederland. Heidemaatsch. Tijdschr.* 61:196-201. July 1950. 12 N282
- 1399 SNIDER, H. J. For better pastures. *Hoard's Dairyman* 95:697. Oct. 10, 1950. 44.8 H65
- 1400 SOUZA-NOVELO, N. *Zacates y otras gramináceas que viven en Yucatán.* Mérida, Yucatán, 1949. 260 p. 60 So82
- 1401 SPITHOST, G. Frisian pasture land. *F.R.S. Friesian Herdb.* 1950:3-5. July 1950. 43.8 F11  
Text also in French.
- 1402 STEBBINS, G. L., JR. New grasses; drought-resistant strains of perennials developed for dry range lands. *Calif. Agr. [Calif. Sta.]* 4(9):5-6, 10. Sept. 1950. 100 C12Cag
- 1403 STEVENSON, E. W. Reseeding tarweed [*Madia glomerata*] infested ranges. U. S. Forest Serv. Pacific Northwest Forest & Range Expt. Sta. Res. Note 68, 5 p. Sept. 1, 1950. 1.9 F7629Fr
- 1404 STODDART, L. A. The stockman: his importance in management of land and big game. No. Amer. Wildlife Conf. Trans. 15:83-93. 1950. 412.9 N814
- 1405 STRATFORD. GRASSLAND RESEARCH INSTITUTE. GRASSLAND RESEARCH STA. Experiments in progress 1950. Aberystwyth, 1950. 86 p. 60.9 St8
- 1406 TANGREN, W. E. Can fire aid range improvements? *Utah Fish & Game B.* 8(3):5. July/Aug. 1950. 412.9 Ut14
- 1407 THOMPSON, P. Cotton patches to cattle country. *Meat* 33(5):161-164. Oct. 1950. 286.85 M464  
Pastures in the black belt of Mississippi and Alabama.
- 1408 THOMPSON, W. R. Make the next ten years the best pasture years in history. *Prog. Farmer, Miss.-Ark.-La.* Ed. 65(10):22, 128. Oct. 1950. 6 So81
- 1409 TIJDENEV, A. P. Pechora wild-growing red clover. (In Russian.) *Sovet. Agron.* 8(6):80-84. June 1950. 20 So84
- 1410 TOLNER, J. The situation for stubble crops. (In Dutch.) *Drents Landbbl.* 31(39):13. Oct. 7, 1950. 12 D812
- 1411 TREW, E. W., JR. Cool season grasses for needed pastures. *Tex. Farming & Citric.* 27(4):12-13. Oct. 1950. 80 T31
- 1412 UMBAUGH, R. E. Any new grasses today? *Tex. Livestock J.* 9(9):6, 57. Sept. 15, 1950. 49 T29
- 1413 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Grazing and related range management studies on the Southern Plains Experimental Range for the winter grazing season of 1948-49; fifteenth semiannual progress report, by D. A. Savage and E. H. McIlvain. Woodward, Okla., 1950. 7 p. 1.965 A2Su62
- 1414 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Grazing, feeding, and other range improvement studies on the Southern Plains Experimental Range, sixteenth semi-annual progress report, by E. H. McIlvain, D. A. Savage, L. E. Johnson, and D. E. Howell. Woodward, Okla., 1950? 20 p. 1.965 A2Su62
- 1415 U. S. FOREST SERV. NORTHERN ROCKY MOUNTAIN FOREST & RANGE EXPERIMENT STATION. A selected bibliography of range management literature published in 1949, by G. A. Harris. Missoula, Mont., 1950. 24 p. (v. 1, No. 4) 1.9622 N3Se4
- 1416 U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Pep up your tired and run-down pastures. U. S. D. A. PA-127, 2 p. July 1950. 1 Ag84Pro
- 1417 VARENITSĀ, E. T. Culture of *Setaria italica*, its botanical and biological character. (In Russian.) *Selek. i Semen.* 17(5):49-53. May 1950. 61.9 Se5
- 1418 VARENITSĀ, E. T. Description of some varieties of *Setaria italica*. (In Russian.) *Selek. i Semen.* 17(6):38-41. June 1950. 61.9 Se5
- 1419 VYTCHIKOV, A. I. Forage cabbage and melon crops in the non-black earth area of U. S. S. R. (In Russian.) *Sofsiolist. Zhivotn.* 12(4):41-44. Apr. 1950. 49 So71  
Culture chiefly.
- 1420 WACHLL, E. Verkürzung der winterfütterungszeit im ackerbaubiet. *Grüne* 78:902-903. Aug. 18, 1950. 17 Sch9  
Culture of forage plants.
- 1421 WAGNER, R. E., and others. A comparison of cage and mower strip methods with grazing results in determining production of dairy pastures. *Agron. J.* 42:487-491. Oct. 1950. 4 Am34P  
M. A. Hein, J. B. Shepherd, and R. E. Ely, joint authors.
- 1422 WEBB, G. Fescue practices and successes. *Prog. Farmer, Ga.-Ala.-Fla.* Ed. 65(10):130-131. Oct. 1950. 6 P945G
- 1423 WEXELSEN, H. The breeding of red clovers in Scandinavia. *Internatl. Grassland Cong. Rpt.* 5:101-105. 1949. 60.19 In85R
- 1424 WIENER, W. T. G. La production de semences "pedigree" de plantes fourragères. *Agriculture [Montreal]* 7:140-142. Summer 1950. 7 Ag82
- 1425 WILLIAMS, T. E. Evaluation of pasture in grazing experiments. *Internatl. Grassland Cong. Rpt.* 5:240-248. 1949. 60.19 In85R  
Includes discussion.
- 1426 WINKLER, H. Cultivation trials with yellow sweet lupine 1942-1946. (In Swedish.) *Lantbrakad. Tidsskr.* 89:214-240. Ref. 1950. 104 Sw3  
English summary.
- 1427 WURSTEN, J. L. Alfalfa plus phosphorus the key to western agriculture. *U & I Cult.* 10(2):9-13. Aug. 1950. 66.8 U12
- 1428 ZELENSKAIA, N. I. *Setaria italica* in Kuban Area. (In Russian.) *Selek. i Semen.* 17(5):75. May 1950. 61.9 Se5
- 1429 ZILLY, R. N. La rotación de cultivos y su conveniencia práctica. Uruguay. Min. de Ganad. y Agr. B. Inform. 335:11. Aug. 24, 1950. 9.9 G15B
- 1430 ZONSHTEIN, L. Ā. Persian clover [*Trifolium resupinatum*] as a catch forage and green manure crop in a condensed crop rotation. (In Russian.) *Vsesoŭzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(8):21-25. 1950. 20 Ak1

## Oil Crops

- 1431 ANDERSEN, J. C. Culture of rape. (In Danish.) *Tidsskr. f. Frøavl* 20:35-37. Sept. 1950. 61.8 T43
- 1432 BROWN, C. Why I grow soybeans. *Soybean News* 2:2. Sept. 1950. 60.38 So92
- 1433 CARVER, W. A., and HULL, F. H. Dixie runner peanuts. *Fla. Agr. Expt. Sta. C.* S-16, 3 p. June 1950. 100 F66Ci
- 1434 FEASTER, C. V. Wabash soybeans for Missouri. *Mo. Agr. Expt. Sta. C.* 344, 6 p. Mar. 1950. 100 M693
- 1435 GODED, L. La soja: importancia de su cultivo. *Cooperación [Madrid]* 101/102:30-32. July/Aug. 1950. 280.28 C7875  
Culture and uses.
- 1436 KALINENKO, I. T. Some problems in increasing sunflower productivity. (In Russian.) *Sovet. Agron.* 8(7):7-14. July 1950. 20 So84



- 1437 MARTIN, J. A. Sesame! Ancient crop may be door to new Southland wealth. *South. Seedsman* 13(10):14-15,54. Oct.1950. 61.8 So8
- 1438 MORSE, W. J., CARTTER, J. L., and HARTWIG, E. E. Soybean production for hay and beans. *U. S. D. A. Farmers' B.* 2024,15 p. Sept.1950. 1 Ag84F  
Supersedes *Farmers' Bulletin* 1605.
- 1439 MUELLO, A. C. Cultivo del sesamo. *Pampa Argentina* 23(273):16,32. Aug.1950. 9 P19
- 1440 PIQUEMAL, G. Expérimentation sur l'arachide en A.E.F. [Afrique Equatoriale Française]; essais d'écarterments effectués à la station de modernisation agricole de Loudima (Moyen-Congo). *Oléagineux* 5:569-573. Oct.1950. 77.8 OL2
- 1441 PORTERFIELD, J. G. Soybean harvesting losses. *Soybean Digest* 10(11):46-47. Sept.1950. 60.38 So9
- 1442 SAUGER, L. A propos d'une nouvelle méthode de sélection de l'arachide. *Oléagineux* 5:574-578. Oct. 1950. 77.8 OL2
- 1443 STURKIE, D. G. Experiments with oil crops. *Ala. Agr. Expt. Sta. B.* 277,28 p. Sept.1950. 100 AL1S
- 1444 TILKIN, F., and LALOUX, R. Essai de culture du soja en Belgique. 3. Gembloux. *Inst. Agron. de l'Etat B.* 17:101-122. 1948/1949. 105.1 G285  
English summary.
- 1445 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Soybeans for hay and oil, by M. C. Weiss and K. M. Gapen. Washington, 1950. 5 p. 1.914 R2R11
- 1446 VOLKIND, M. Kak vyrastit' vysokii' urozha' podochnichnika [How to produce high yields of sunflowers]. *Cheljabinsk, Cheljabinskoe Obl. Gos. Izd-vo*, 1950. 42 p. (Biblioteka Agrotekhnicheskikh Znanii' dlia Kolkhoznikov) 77 V88
- 1447 WEISS, M. G. The soybean improvement program. *Soybean Digest* 10(11):34-35. Sept.1950. 60.38 So9
- Sugar Crops**
- 1448 AFANASIEV, M. M., and MORRIS, H. E. The effect of preceding crops and nutrients on the growth and seedling diseases of sugar beets in Montana. (Abs.) *Phytopathology* 40:963. Oct.1950. 464.8 P56
- 1449 ARRUDA, S. C., and ARRUDA, H. C. The behaviour and production of the selected seed-cane of the Co. 290 variety in the State of S. Paulo. (In Portuguese.) *Inst. Biol. São Paulo. Arq.* (1949/50)19:175-201. 1950. 442.9 Sa6  
English summary.
- 1450 ASANA, R. D. Growth analysis of the sugar-cane crop in North Bihar (India). I. Seasonal variation in growth and yield in unmanured plots. *Ann. Bot. [London]* (n.s.)14:465-486. Ref. Oct.1950. 450 An7
- 1451 BAILEY, J. E. Williams variety of sorghum cane recommended for North Georgia. *Ga. Agr. Expt. Sta. Press B.* 620,1 p. Feb.7,1950. 100 G29P
- 1452 BRANDES, E. New Guinea native cane growers. *Austral. Sugar J.* 42:413. Sept.15,1950. 65.8 Au7
- 1453 CHANISHVILI, SH. F. Utilization of roots from the summer [sugar] beet crop for transplanting. (In Russian.) *Selekt. i Semen.* 17(7):68-70. July 1950. 61.9 Se5
- 1454 DRAGHETTI, A. Ottavio Munerati and beet culture in Italy. (In Italian.) *Ital. Agr.* 87:469-475. Aug. 1950. 16 It1
- 1455 ECKHOFF, L. R. Zuckerrübenversuche. *Hannoversche Land- u. Forstwirtschaft. Ztg.* 103:439-440. Apr.29,1950. 18 H194
- 1456 HUGHES, C. G. The production and testing of sugar-cane seedlings. *Queensland J. Agr. Sci.* 6:1-53. Ref. Mar.1949. 23 Q37
- 1457 KELSICK, R. E. Methods of sugarcane agriculture in standard use in St. Kitts. *Brit. West Indies Sugar Assoc. Proc. Mtg. Sugar Technol.* 1949:117-121. 65.9 B775  
Includes discussion.
- 1458 LARSON, J. D. Profitable sugar beet growing. *New Agr.* 32(11):12-13. (Cont.) Aug.1950. 66.8 Su32
- 1459 LOCSIN, C. L. Experimental work on sugar-cane in Victorias 1948-1949 season including part of 1950. *Sugar News* 26:338-363. July 1950. 65.9 Su36  
Philippine Republic.
- 1460 LÜDECKE. Probleme des deutschen zucker-rübenbaues unter besonderer berücksichtigung der sortenfrage. *Zucker* 3:297-301. July 15,1950. 65.8 Z82
- 1461 MARTIN, E. R. H. Methods of sugar cane agriculture at present in use in Antigua (1949). *Brit. West. Indies Sugar Assoc. Proc. Mtg. Sugar Technol.* 1949:18-23. 65.9 B775  
Includes discussion.
- 1462 MENDIOLA, N. B. Improvement of our cane varieties. *Sugar News* 26:409-410. Aug.1950. 65.8 Su393  
Philippine Republic.
- 1463 MOLLER A., E. Como hacer un buen cultivo de betarraga sacarina en suelos trumaos sureños. *Agr. Austral* 18:314-316. July 1950. 9.3 Ag842
- 1464 ROEMER, T., and CZERATZKI, W. Sortenprüfung der zuckerrüben in Deutschland seit 1920. *Kühn-Arch.* 62:1-64. Ref. 1949. 105.8 H15Ku
- 1465 SUGARCANE INVESTIGATION COMMITTEE. TRINIDAD. Field experiments on sugarcane in Trinidad. Annual report. n.p.,1950. 18 p. 65.9 T733
- 1466 SWIFT, J. E. Sugar beet spacing trials. *Calif. Agr. [Calif. Sta.]* 4(10):6,10,13. Oct.1950. 100 C12Cag
- 1467 TETTAMANZI, A. Functions of the control laboratories of the N. A. B. [National Association of Beet Growers]. (In Italian.) *Humus* 6(7):26-27. July 1950. 16 H88
- 1468 TISHCHENKO, A. V. Some problems of sugar beet seed production. (In Russian.) *Sakh. Promysh.* 24 (6):42-44. June 1950. 65.8 Sa2
- 1469 TOLMAN, B. Don't impose on your neighbor. *U & I Cult.* 10(2):2-4. Aug.1950. 66.8 U12  
Harvesting of sugar beets.
- 1470 TOLMAN, B. Harvest all your beets. *U & I Cult.* 10(2):14-15. Aug.1950. 66.8 U12
- 1471 WOOD, J. A. Prospects good for 1950 beet harvest. *U & I Cult.* 10(2):1. Aug.1950. 66.8 U12
- Tobacco**
- 1472 BÉREND, P. La Ferme Royale et la culture du tabac dans le sud-ouest de la France de 1674 à 1720. *Rev. des Tabacs* 25:29-31. (Cont.) Autumn 1950. 69.8 R325
- 1473 BORDELEAU, R. The production, harvesting and curing of cigar tobacco. *Canada Dept. Agr. Farmers' B.* 160,30 p. June 1950. 7 C16F
- 1474 BYERS, G. B., BORTNER, C. E., and BACK, W. B. It pays to prime and cut burley tobacco ripe. *Ky. Agr. Col. Ext. C.* 483,8 p. June 1950. 275.29 K415
- 1475 COLLINS, J. C. A guide to prospective tobacco growers. *Rhodesia Agr. J.* 47:196-203. May/June 1950. 24 R34
- 1476 ENFIELD, G. H., LEHKER, G., and SHARVELLE, E. G. Tobacco tips from seed to sale. *Purdue U. Agr. Ext. B.* 356,28 p. 1950? 275.29 In2E  
Chiefly culture. Includes common tobacco insects, diseases and their control.
- 1477 HAGEDOORN, A. L. Advice on selecting tobacco seed. *Rhodesian Farmer* 4(6):25. Aug.16,1950. 24 R347
- 1478 KAJITCH, M. Développement et conditions oecologiques de la culture du tabac yougoslave; mesures pour l'améliorer. *Rev. Internat. des Tabacs* 25:151-156. (Cont.) Aug./Sept.1950. 69.8 R324
- 1479 KENTUCKY UNIVERSITY. COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Tobacco production in Kentucky. *Ky. Agr. Col. Ext. C.* 482,32 p. June 1950. 275.29 K415
- 1480 RICHARD, J. Harvesting and curing of flue-cured tobacco. *Canada. Expt. Farms. Tobacco Div. Lighter* 20(3):10-13. Aug.1950. 286.89 C16
- 1481 SHAH, S. M. I., and SULEYMAN, M. Production of cigarette tobacco in the North-West Frontier Province. (Abs.) *Co-op. & Mktg. Rev.* 4:243. July 1950. 280.28 C78243  
Pakistan.
- HORTICULTURAL CROPS**
- Includes articles on general horticulture, and on varieties, breeding, cultural practices, and yield.
- General**
- 1482 ALGERIA. SERV. AGRICOLE GENERAL. L'achat des arbres en pépinière. *Algérie. Insp. Gén. et Dir. de l'Agr. Doc. et Renseign. Agr. B.* 157,4 p. 1950. 24 AL34



- 1483 AMOS, M. Abrigos empleados en jardineria. Pampa Argentina 23(273):18. Aug.1950. 9 P19
- 1484 BOSKOOP. VERENIGING DE PROEFTUIN JAARBOEK. Jaarboek uitgegeven door de vereniging "de proeftuin" te boskoop [Yearbook published by the Association for Horticultural Testing at Boskoop Nursery Experiment Station]. n.p.,1949. 93 p. 86 B65
- 1485 DAEPP, H. P. Zur wirtschaftslage im baumschulgewerbe. Gärtnermeister 53:285-286. Sept.1,1950. 80 G1939
- 1486 DRAGT, J. Juridical information to market gardeners. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:532-537. Aug./Sept.1950. 86 N384  
English summary.
- 1487 ERASMUS, C. W. Soil is not necessary to grow the best flowers and vegetables. (In Afrikaans.) Landbouweekblad 32(1627):30-31,33. Sept.20,1950. 24 L232
- 1488 GAGNARD, J. A B C du greffeur. Algeria. Insp. Gén. et Dir. de l'Agr. Doc. et Renseign. Agr. B. 134, ed. 2,19 p. 1949. 24 AL34
- 1489 GARDENER, E. H. Horticultural industry's future. Brit. Farmer 27:12. Sept.30,1950. 281.8 B77
- 1490 GARDENS and gardening, 1950. London,1950. 172 p. 84 G16
- 1491 GLAZEBROOK, J. Propagation. 2-3. Lincoln Col. Rur. Educ. B. 5:97-100,109,113. July-Aug.1950. 109 C162
- 1492 GUERRINI, G. Giardinaggio [Gardening]. Milano, Vallardi,1950. 142 p. (Biblioteca di Cultura. 157) 97 G93
- 1493 HARDIN, J. C. Early garden traditions of Arkansas. Natl. Gard. 21(9/10):6-7,31-33. Sept./Oct. 1950. 90.32 N21
- 1494 HAUGE, M. Possibilities for plant nurseries in Bergen and Hordaland. (In Norwegian.) Gartneryrket 40:606,609. Aug.22,1950. 80 G1938
- 1495 HONIG, F. W. In what direction should horticultural education develop? (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:469-484. Aug./Sept. 1950. 86 N384  
English summary.
- 1496 KEITH's florist directory and horticulture guide, 1950. Toronto,1950. 220 p. 225 K27
- 1497 KING, E. J. The propagation of plants. London,1950. 264 p. (Hutchinson's Sci. and Tech. P.) 90.11 K58
- 1498 KOCH. Der gartenbau ist in Weser-Ems nicht ohne bedeutung. Landwirtbl. Weser-Ems 36:732-733. Sept.6,1950. 18 L2345
- 1499 LAAN, E. VAN DER. The importance of the experimental technique in horticultural investigation. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:729-734. Aug./Sept.1950. 86 N384  
English summary.
- 1500 LYSSAND, P. Possibilities for greenhouse gardening in the Bergen district. (In Norwegian.) Gartneryrket 40:601,605. Aug.22,1950. 80 G1938
- 1501 MCLANE, S. Garden guide by months, for the Midwest. Kansas City, Mo., Glenn,1950. 380 p. 90.04 M22
- 1502 MATTHEWS, J. W. The New Zealand garden dictionary. Ed. 5. Wellington, N. Z., Reed,1949. 251 p. 90.01 M43
- 1503 MENDIOLA, N. B. Plant propagation. Agr. & Indus. Life 12(8):9. Aug.1950. 25 Ag8
- 1504 MERFIELD, A. G. Disappointing results due to incorrect application of cloche-culture principles. Orchardist New Zeal. 23(7):28-29,31. Sept.5,1950. 80 Or19
- 1505 MORGAN, C. N. Horticultural districts of Queensland. 4. Metropolitan. Queensland Agr. J. 71:14-25. July 1950. 23 Q33
- 1506 NARAYANA, N., KIBE, M. M., and ULLAL, R. R. Soilless cultivation of plants. Poona Agr. Col. Mag. 41:74-89. Aug.1950. 22 P79
- 1507 OZHIGANOV, I. D. Michurinites of Kislovodsk [Horticultural Society]. (In Russian.) Sad i Ogorod 1950 (7):77. July 1950. 87 Sa1
- 1508 PERSSON, A. R. The John Innes garden experiment station. (In Norwegian.) Gartneryrket 40:527-529. July 21,1950. 80 G1938
- 1509 PUTTOCK, A. G. British horticulture in Germany. Gard. Illus. 67:279. Sept./Oct.1950. 80 G169
- 1510 REISAETER, O. Better labels. (In Norwegian.) Gartneryrket 40:559-561. Aug.4,1950. 80 G1938
- 1511 RIETSEMA, C. The development of horticultural areas in North Holland. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:537-538. Aug./Sept. 1950. 86 N384
- 1512 SCHINDLER, H. Die stecklingsarten und die zeit ihrer vermehrung. Gartenbauwirtschaft [Berlin] 1950:156-157. July 10,1950. 80 G1936
- 1513 SILVEIRA, A. DE C. Noções de horticultura prática [Ideas on practical horticulture]. Rio Grande do Sul Sec. de Estado dos Negócios da Agr., Indús. e Com. [B.] 153,37 p. 1949. 9.2 R473
- 1514 STADHOUDERS, P. J., and VRIJHOF, B. Research institutes and horticultural centers in England. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:425-444. July 1950. 86 N384
- 1515 U. S. EXTENSION SERV. Extension work in horticulture. Washington,1950. 9 p. 1.913 A2Ex845
- 1516 WATERSCHOOT, H. F. Horticulture and horticultural research in Indonesia. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:485-493. Ref. Aug./Sept. 1950. 86 N384  
English summary.
- 1517 WELLS, J. S. Pointers on propagation; this question of sawdust. Amer. Nurseryman 92(8):12. Oct. 15,1950. 80 Am371

## Fruits--General

- 1518 ALGERIA. SERV. AGRICOLE GENERAL. Liste des meilleures variétés fruitières commerciales. Algeria. Insp. Gén. et Dir. de l'Agr. Doc. et Renseign. Agr. B. 156,4 p. 1950. 24 AL34
- 1519 ALGERIA. SERV. AGRICOLE GENERAL. Les meilleurs porte-greffes pour arbres fruitiers. Algeria. Insp. Gén. et Dir. de l'Agr. Doc. et Renseign. Agr. B. 164, 4 p. 1950. 24 AL34
- 1520 AROEIRA, J. S. Essentials for the success of grafting. (In Portuguese.) Rev. Ceres 8:300-301. Jan./June 1950. 9.2 C332  
Fruit.
- 1521 BELOKHONOV, I. V. On planting fruit plants in the shelterbelts. (In Russian.) Sad i Ogorod 1950(7):3-10. July 1950. 87 Sa1
- 1522 BELOKHONOV, I. V. Plodovodstvo [Fruit culture]. Moskva, Gos. Izd-vo Selkhoz Lit-ry,1950. 503 p. (Uchebniki i Uchebnye Posobiya dlya Podgotovki Sel'skokohtalstvennykh Kadrov Massovoï Kvalifikatsii) 93.28 B41PL
- 1523 BREVIGLIERI, N. The best summer fruit at the Verona review. (In Italian.) Riv. della Ortoflorofruttic. Ital. 34:124-129. July/Aug.1950. 86 R22
- 1524 CAWTHRON INSTITUTE. Fruit research. Annual report for 1949-50. Cawthron Inst. B. 57,2 p. 1950. 23 C31B
- 1525 ČERNÝ, L. Modification of the Michurin apparatus for the rooting of fruit-trees. (In Czech.) Českoslov. Akad. Zemedel. Sborn. 22:611-620. Ref. 1950. 19.5 C332C  
English summary.
- 1526 COUTANCEAU. Une orientation souhaitable des études pomologiques. Rev. Hort. 122:206-209. Sept./Oct.1950. 80 R3z
- 1527 CRANE, H. H. Tree fruits and soft fruits for small gardens. My Gard. 41:247-260. Sept.1950. 80 M995
- 1528 CUNY, L. Où et comment planter? Rev. Hort. 122:199-201. Sept./Oct.1950. 80 R32  
Fruit trees.
- 1529 DANFEL'D, P. A reservation of [wild] fruit trees in Southern Kirgizia. (In Russian.) Lesn. Khoz. 3(2):39-45. Feb.1950. 99.8 L562
- 1530 ELLENWOOD, C. W. Removing old trees for new. Amer. Fruit Grower 70(10):12. Oct.1950. 80 G85
- 1531 ENGLERT. Gedanken zur obsternte. Obstbau 69:116-117. Aug.1,1950. 80 Ob73
- 1532 ENIKEEV, KH. K. Development of Michurinite science in the field of orchard cultivation. (In Russian.) Agrobiologiya 1950(3):26-37. May/June 1950. 20 Ag822
- 1533 FAURE, J. Le Congrès de Ferrare et l'Arboriculture Italienne. Vitic. Arbor. 95:317-319. Nov.1949. 95.8 R322
- 1534 GROVEN, I. The fruit crop 1950. (In Norwegian.) Gartneryrket 40:621-622. Sept.2,1950. 80 G1938  
Harvesting.



- 1535 HARMAN, R. E. Care of the back yard fruit trees. *Shade Tree* 23(6/7):2-3. June/July 1950. 99.8 Sh1
- 1536 HASKINS, G. Some new ideas about orchard sites and frosts. *Amer. Fruit Grower* 70(10):11,20. Oct.1950. 80 G85
- 1537 JAFFE, W. Las frutas silvestres de Venezuela. *Agr. Venezol.* 15(142):24-26. May 1950. 9.95 Ag8
- 1538 LAVEZZINI, A. Environmental factors and preparations for fruit tree planting. (In Italian.) *Avvenire Agr.* 58:207-215. Sept.1950. 16 Av9
- 1539 LAVEZZINI, A. A look at Parma fruit culture. (In Italian.) *Avvenire Agr.* 58:165-167. July 1950. 16 Av9
- 1540 LENFANT, J. L'enseignement de l'arboriculture fruitière. *Rev. Hort.* 122:210-214. Sept./Oct. 1950. 80 R32
- 1541 LEWIS, D. Breaking down incompatibility. *Gard. illus.* 67:280,283. Sept./Oct.1950. 80 G169
- 1542 MIKES, J. The decaying of fruit-trees; the causes of decline of our fruit-growing. (In Czech.) *Ceskoslov. Akad. Zeměděl. Sborn.* 22:472-495. 1950. 19.5 C332C
- English summary.
- 1543 MONIN, A. La taille Lorette. *Fruit Belge* 18:113-118. Aug.1950. 80 F9493
- 1544 MONTGOMERY, H. B. S. Modernizing the fruit garden. *Gard. & Gard.* 1950:157-165. 84 G16
- 1545 MOORE, G. L. A marketing expert struggles with the variety problem. *Amer. Fruit Grower* 70(10):10,19. Oct.1950. 80 G85
- 1546 PETRAKHILEV, I. M. Michurinite varieties of fruit species in Krasnoyarsk Territory. (In Russian.) *Agrobiologiya* 1950(3):52-56. May/June 1950. 20 Ag822
- 1547 PIQUER, G. Le climat et les arbres fruitiers. *Fruit Belge* 18:126-127. (Cont.) Aug.1950. 80 F9493
- 1548 POENICKE, W. Erfolgreiches veredeln zur vermehrung zu höherem ertrag, zur sicheren befruchtung der obstblüte und zur steigerung der frostwiderstandsfähigkeit. Stark erweiterte aufl. mit umfangreichen angaben über die generative und vegetative verträglichkeit und die richtige namenbildung der obstsorten sowie die sorten- und unterlagenwahl. *Holzminiden, Trowitzsch*, 1949. 74 p. 93.5 P75
- 1549 POSSINGHAM, E. At Orange. *Grower [Adelaide]* 5(2):25. Aug.1950. 80 G912
- South Australian fruit-growing area.
- 1550 PUKHTINSKII, I. E. In regard to the cultivation of mountain ranges of wild fruit species. (In Russian.) *Agrobiologiya* 1950(3):154-156. May/June 1950. 20 Ag822
- 1551 RATH, Die ernte des frühobstes. *Gart.-Z. illus. Flora* 73:89-92. Aug.1950. 80 G1991
- 1552 REBOUR, H. A B C du tailleur d'arbres fruitiers. *Algeria. Insp. Gén. et Dir. de l'Agr. Doc. et Renseign. Agr.* B. 130,ed.4,20 p. 1950. 24 AL34
- 1553 REBOUR, H. La sélection fruitière en Afrique du Nord. *Vitic. Arbor.* 95:296-298. Oct.1949. 95.8 R322
- 1554 RODZINA, N. T. A collective farm fruit grower. (In Russian.) *Sad i Ogorod* 1950(7):31-32. July 1950. 87 Sa1
- Achievements of S. T. Belan on Stalin Collective Farm in Primorski Krai.
- 1555 SCASSO, J. M. Frutales más convenientes para la zona litoral templada especialmente la Provincia de Buenos Aires. *Argentina. Min. de Agr. Almanaque* 25:391-403. 1950. 9 Ag874
- 1556 SILORET, G. Méthodes modernes de taille et de conduite des arbres. *Vitic. Arbor.* 95:311-312. (Cont.) Nov.1949. 95.8 R322
- 1557 SLATE, G. L. Fruits for the home orchard. *Plants & Gard.* 6:182-185. Autumn 1950. 450 P694
- 1558 TARALA, G. N. A favorite occupation. (In Russian.) *Sad i Ogorod* 1950(7):29-30. July 1950. 87 Sa1
- Fruit culture.
- 1559 TITUS, H. Home-grown fruit for the Corn Belt. *Country Gent.* 120(10):29,118-121. Oct.1950. 6 C833
- 1560 VALIULLIN, A. V., and others. *Agrotekhnika plodovo-ogodnykh kul'tur Tatarskoï ASSR [Cultural practices for fruit and berry crops in Tatar ASSR]. Kazan', Tatgosizdat*, 1950. 263 p. 93.28 V23
- N. I. Vakulenko, N. Ia. Talatin, G. I. Rozanova, N. K. Teleimanov, and A. A. Nadyseva, joint authors.
- 1561 VIERHELLER, A. F. Planting plans and techniques. *Amer. Fruit Grower* 70(10):9,26-28. Oct.1950. 80 G85
- Fruits--Citrus and Subtropical
- 1562 BLONDEL, L. Quelques aspects de l'agrumiculture italienne. *Rev. Agr. de l'Afrique du Nord* 48:597-601. (To be cont.) Aug.4,1950. 80 R326
- 1563 BROOKS, F. A., RHOADES, D. G., and SCHULTZ, H. B. Frost protection for citrus; combined use of wind machines and distributed orchard heaters provides extra frost protection. *Calif. Agr. [Calif. Sta.]* 4(9):11-12,15. Sept.1950. 100 C12Cag
- 1564 CALIFORNIA FIG INSTITUTE. Proceedings of the fourth annual research conference, March 10, 1950. *Fresno*, 1950. 44 p. 93.44 C122P
- 1565 CALIFORNIA FIG INSTITUTE. Proceedings of the third annual research conference, April 8, 1949. *Fresno*, 1949. 27 p. 93.44 C122P
- 1566 CAMP, A. F. Top-working citrus trees. *Citrus Mag.* 13(2):26. Oct.1950. 80 C498
- 1567 CHAMBERS, J. B., JR. Avocados looming up as important Valley crop. *Tex. Farming & Citric.* 27(4):4. Oct.1950. 80 T31
- 1568 CHEYNE, O. B. M. Planting coconut seedlings. *Ceylon Coconut Q.* 1(2):25-28. Apr./June 1950. 77.8 C33
- 1569 CHILD, R. Recent research on the coconut palm with special reference to Ceylon. *Empire J. Expt. Agr.* 18:177-189. Ref. July 1950. 10 Em7
- 1570 CHOUSSEY, F. Datos importantes para el agricultor. *Asoc. Gen. de Agr. B.* 277(Sup. Agr. 2(39):1,6.) Aug.30,1950. 8 As52
- Banana propagation.
- 1571 CLAUS, F. Le manguier, arbre au fruit délicieux. *Cour. Hort.* 12:549-553. Oct.1950. 80 C834
- 1572 COBIN, M. The Lychee in Florida. *Fla. Agr. Expt. Sta. B.* 471,24 p. Ref. Aug.1950. 100 F66S
- 1573 CONDIT, I. J. Fig species and varieties. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 4:25-26. 1950. 93.44 C122P
- 1574 CRANE, J. C. Seasonal development of the fig fruit. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 4:43-44. 1950. 93.44 C122P
- 1575 CROCE, F. M. Poda del granado. *Vinos, Vinas y Frutas* 45(538):47-49. July 1950. 9 Ag89
- 1576 DATSKO, I. G. Lemons had wintered successfully. (In Russian.) *Sad i Ogorod* 1950(7):44. July 1950. 87 Sa1
- 1577 DU PREEZ, D. The granadilla or edible passion fruit. *Farming So. Africa* 25:223-225. July 1950. 24 So842
- 1578 ELZE, D. L. Germination of citrus seeds in relation to certain nursery practices. *Palestine J. Bot. Rehovot Ser.* 7:69-80. Dec.1949. 450 P172
- 1579 FERNANDES, R. G. Instruções para o cultivo de oliveira [Instructions for the cultivation of the olive tree]. *Rio Grande do Sul Sec. de Estado dos Negócios da Agr., Indús. e Com. [B.]* 155,20 p. Ref. 1949. 9.2 R473
- 1580 FERNANDO, L. Some methods of rejuvenating coconut plantations now practised. *Ceylon Coconut Q.* 1(2):19-23. Apr./June 1950. 77.8 C33
- 1581 GORRIE, R. M. Soil and water conservation in coconut growing. *Ceylon Coconut Q.* 1(2):17-18. Apr./June 1950. 77.8 C33
- 1582 HARDING, P. L. The effect of oil and parathion sprays on the quality of early oranges. *Citrus Mag.* 13(2):24-25. Oct.1950. 80 C498
- 1583 HODGSON, R. W. The avocado—a gift from the middle Americas. *Econ. Bot.* 4:253-293. Ref. July/Sept. 1950. 450 Ec7
- 1584 HODGSON, R. W., and WRIGHT, A. H. Frost vs. varieties: on the comparative resistance of citrus to low winter temperatures. *Citrus Leaves* 30(10):22,30; (11):30-32. Oct.-Nov.1950. 80 C492
- 1585 KAPTSINEL', M. A. *Apel'sin [Oranges]. Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 140 p. 93.331 K14
- 1586 KONOPLEV, N. A. Citrus on the collective farms in Tashkent Region. (In Russian.) *Sad i Ogorod* 1950(7):40-42. July 1950. 87 Sa1
- Lemon culture chiefly.



- 1587 LUNA ERCILLA, C. A. La palmera productora de dátiles. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(11):2-22. Ref. May 1950. 9 Ar35  
Phoenix dactylifera.  
Also in Argentina. Min. de Agr. Almanaque 25:81-96. Ref. 1950. 9 Ag874
- 1588 MCGILLIVRAY, K. D. Contour planting on Central Coast citrus orchards. Agr. Gaz. N. S. Wales 61: 357-360, 419-423. July-Aug. 1950. 23 N472
- 1589 MARSICO, D. F. El cultivo y la industria del olivo en la República Argentina. Argentina. Min. de Agr. Almanaque 25:240-246. 1950. 9 Ag874
- 1590 MENON, H. B. El cultivo del guayabo. Agr. Costarricense 8:244-247, 249-251, 253-255, 257-260. Ref. June 1950. 8 Ag895  
Also in Rev. Nac. de Agr. [Bogotá] 44(543):12-18. July 1950. 9.4 R32
- 1591 MILLER, M. Bulk handling of citrus; Gillette brothers of Hemet develop way to reduce cost of harvesting the fruit. Citrus Leaves 30(11):8-9. Nov. 1950. 80 C492
- 1592 MONSELISE, S. P. The influence of different lighting on citrus trees. Hassadeh 30:570-572. July 1950. 26 H27  
In Hebrew.
- 1593 MULLEN, H. H. Growers' optimism keynotes Citrus Institute. Fla. Grower 58(10):9, 16-17, 23. Oct. 1950. 80 F6622
- 1594 NIXON, R. W. Imported varieties of dates in the United States. U. S. D. A. C. 834, 144 p. Ref. July 1950. 1 Ag84C
- 1595 PADGETT, J. R. Avocado varieties in the Rio Grande Valley. Tex. Farming & Citric. 27(3):5. Sept. 1950. 80 T31
- 1596 PEYRONNET, R. Etudes techniques d'agrumiculture. Rev. Agr. de l'Afrique du Nord 48:683-686. Sept. 22, 1950. 80 R326
- 1597 PODOPRIGORA, G. A. A problem to face in citrus culture in Dagestan. (In Russian.) Sad i Ogorod 1950(7):43. July 1950. 87 Sa1  
Lemon culture chiefly.
- 1598 PROGRESS report on "a major operation." Calif. Citrog. 35:503. Oct. 1950. 80 C125  
Topworking a seedling orchard to navel oranges.
- 1599 SCHATZ, A. S., and DU CHARME, E. P. Portainjertos citricos. Argentina. Min. de Agr. Almanaque 25:137-142. 1950. 9 Ag874
- 1600 THOMPSON, L. A. Fig variety collection in the U. S. D. A. deciduous fruit breeding and testing station, Fresno, Calif. Calif. Fig Inst. Proc. Annu. Res. Conf. 4:27. 1950. 93.44 C122P
- 1601 VIEIRA, J. DE C. Brief considerations on the propagation of citrus. (In Portuguese.) Gaz. do Agr. 2: 132-135. (Cont.) June 1950. 24 G25
- 1602 WARNER, R. M., and LARSON, J. Caprifig outlook. Calif. Fig Inst. Proc. Annu. Res. Conf. 3:9-10. 1949. 93.44 C122P
- 1603 WARNER, R. M., and PILGRIM, A. J. Growth and fruit quality, 1948 observations. Calif. Fig Inst. Proc. Annu. Res. Conf. 3:7-8. 1949. 93.44 C122P
- 1604 WINSTON, J. R. Harvesting and handling citrus fruits in the Gulf States. U. S. D. A. Farmers' B. 1763, rev., 67 p. July 1950. 1 Ag84F
- 1605 ZANINI, E. L'emploi des stimulants hormonaux pour réduire les phénomènes de coulure et de chute des agrumes. Fruits et Primeurs de l'Afrique du Nord. Ed. Marocaine 20:269-274. Sept. 1950. 80 F9482

#### Fruits--Deciduous

- 1606 ABRAHAMSE, S. Supports. (In Dutch.) Fruitteelt 40:536-537. July 13, 1950. 86 N28  
For fruit trees.
- 1607 ACKERMAN, W. Back yard orchards that bear fruit; properly chosen varieties insure good yields. Org. Gard. 17(4):37-39, 57. Oct. 1950. 56.8 Or3
- 1608 AUBERT, P. Rendements comparatifs de poiriers greffés sur franc et cognassier. Arbres et Fruits 1949:3-6. July/Aug. 1950. 80 Ar1
- 1609 AUGUSTE, A. Avenir du prunier européen en Algérie. Fruits et Primeurs de l'Afrique du Nord. Ed. Marocaine 20:281. Sept. 1950. 80 F9482
- 1610 BEN-HAIM, N. The Duarte plum. Hassadeh 30:572-573. July 1950. 26 H27  
In Hebrew.

- 1611 BLAHA, J. L'analyse phénologique des variétés des griottiers. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:652-663. 1950. 19.5 C332C  
French summary.
- 1612 BURGMANS, H. Fruit culture in Denmark. (In Dutch.) Fruitteelt 40:582-584, 603-604. Aug. 3-10, 1950. 86 N28
- 1613 BURKHOLDER, C. L., and KLACKLE, R. L. Planning and planting the apple orchard. Ind. Agr. Expt. Sta. C. 350, 19 p. June 1950. 100 In2P
- 1614 BUSH, R. Rain, gales, drought—and still a heavy crop. Grower [London] 34:564-565. Sept. 16, 1950. 286.83 M34  
Apples in Great Britain.
- 1615 CAPUCCI, C. The Moretta di Vignola cherry. (In Italian.) Ital. Agr. 87:495-502. Aug. 1950. 16 It1
- 1616 CRINS, W. H. The increase in size of the fruits of apples and pears and the effect of fruit-thinning. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:405-411. July 1950. 86 N384  
English summary.
- 1617 CRINS, W. H. Results of the thinning of fruit of apples and pears. (In Dutch.) Groenten en Fruit 5: 1013. June 29, 1950. 80 G89
- 1618 GAVRILOV, N. V. Obtainment of Siberian and Rennet apple seeds. (In Russian.) Sad i Ogorod 1950(7): 20-21. July 1950. 87 Sa1
- 1619 GERRITSEN, C. J. Variety selection and profitability in cherry culture. (In Dutch.) Fruitteelt 40: 552-554. July 20, 1950. 86 N28
- 1620 HALL, C. W. B. Renovate or grub? Fate of old orchards. Fruit-Grower 2857:397-398. Sept. 28, 1950. 80 F941
- 1621 HAUSNER, F. Die frage der misch- und zwischenschonpflanzung. Berufsgärtner 3(8):3-4. Aug. 1950. 80 B463  
Fruit.
- 1622 HERR, F. Wichtige erfahrungen im pflanzenversand beherzigen! Deut. Baumsch. 2:246-247. Oct. 1, 1950. 80 D486  
Fruit trees.
- 1623 HILKENBÄUMER, F. Das verhalten von apfelstammbildnern in der baumschule. Kühn-Arch. 62:65-75. 1949. 105.8 H15Ku
- 1624 JACK, J. S. Espalier fruit trees. Prof. Gard. 2:220-221. Sept. 1950. 80 P945
- 1625 KAZ'MIN, G. T. Apricot variety, Luchshiy Michurinskiy, in Khabarovsk. (In Russian.) Sad i Ogorod 1950(7):26-28. July 1950. 87 Sa1
- 1626 KORDON, R. I. A. Apple varieties for the north-western zone of R. S. F. S. R. (In Russian.) Sad i Ogorod 1950(7):22-24. July 1950. 87 Sa1
- 1627 KRAMER, C., and POST, J. J. Blossom and harvesting prospects for apples and pears in 1950. (In Dutch.) Fruitteelt 40:580-582. Aug. 3, 1950. 86 N28
- 1628 LAUMONNIER, R. Le verger angevin; quelques notes sur la chandelle modifiée et le buisson vertical type Marchand. Vitic. Arbor. 95:283-285. Oct. 1949. 95.8 R322
- 1629 LECOYER, M. La defense de nos pommiers. Cour. Hort. 12:443-444. Aug. 1950. 80 C834
- 1630 LIBES, R. Porte-greffe du pommier. Prog. Agr. et Vitic. 1950:123-127. Aug. 20/27, 1950. 14 P94
- 1631 LIJSTEN, R. The Netherlands General Inspection Service for Tree Nurseries and the fruit growers. II-IV. (In Dutch.) Fruitteelt 40:640-641, 651, 652, 675. Aug. 24-Sept. 7, 1950. 86 N28
- 1632 MAYÉRAS, R. La pomme de Lestre. Rev. Hort. 122:222-223. Sept./Oct. 1950. 80 R32
- 1633 MODENA, A. Old and new varieties of peaches at the Verona National Show. (In Italian.) Agr. Tosc. 5: 359-364. Oct. 1950. 16 Ag827
- 1634 MURNEEK, A. E. Harvesting the apple crop judiciously. Mo. State Hort. Soc. Hort. News 1950:2-3. Oct. 1950. 81 M692H
- 1635 OPLT, J., and RETOVSKY, R. Rooting of partially etiolated apple cuttings and layers. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:496-501. Ref. 1950. 19.5 C332C  
English summary.
- 1636 PIROVANO, A. The practical limits of the culture of the pear in a hot arid climate. (In Italian.) Ann. della Sper. Agr. (n.s.) 4:579-601. 1950. 16 An76  
English summary.  
Similar title in Agr. Ital. 1:384-386. Aug. 1, 1950. 16 Ag822



- 1637 POTTER, J. M. S. Some good dessert apples. *Gard. & Gard.* 1950:149-156. 84 G16
- 1638 PUZEY, S. M. Result of working with spreading trees. (In Russian.) *Sad i Ogorod* 1950(7):28-29. July 1950. 87 Sal  
Apples chiefly.
- 1639 RUSSELL, M. Early peaches. *Colo. Rancher & Farmer* 4(17):1,6. Sept.9,1950. 6 C714
- 1640 SCHWARTZE, C. D., and MYHRE, A. S. Research on fruit tree dwarfing stocks. *Amer. Nurseryman* 92(9):7-8. Nov.1,1950. 80 Am371
- 1641 SEELIG, R. A. Fruit & vegetable history. 9. Peaches. *Fruit & Veg. Rev.* 12(7):12-13,21. Oct.1950. 80 C1224
- 1642 SELBY, H. C. Late dessert apple possibilities. *Fruit-Grower* 2819:23-24. Jan.5,1950. 80 F941
- 1643 SMITH, E. J. Cider and science. *Farmers Wk.* [London] 33(12):41,44-45. Sept.22,1950. 10 F2226  
Work of the Agricultural and Horticultural Research Station of the University of Bristol at Long Ashton, Somerset. Includes cider-apple growing and cider making.
- 1644 SUSSA, G. Facteurs physiologiques, facteurs environnants intéressant la taille du pommier. *France. Min. de l'Agr. B. Tech. d'Inform.* 51:505-508. July/Aug. 1950. 14 F844B
- 1645 SUIVRE, A. La culture fruitière en Angleterre, dans le Kent (ouest) et le Sussex (est). *Arbres et Fruits* 1949:15-23. (To be cont.) July/Aug.1950. 80 Ar1
- 1646 TALBERT, T. J. Propagation of fruit trees by budding and grafting. *Mo. Agr. Expt. Sta. C.* 343,16 p. Mar.1950. 100 M693
- 1647 VETTER, Eigenschaften der sorte "unseldapfel." *Obstbau* 69:120. Aug.1,1950. 80 Ob73
- 1648 VOLKOV, S. A. Apricot in Primorskii Krai. (In Russian.) *Sad i Ogorod* 1950(7):24-26. July 1950. 87 Sal
- 1649 ZAKHAROV, N. I. Fruit-bearing peculiarities of apple trees in Moldavian SSR. (In Russian.) *Sad i Ogorod* 1950(7):18-19. July 1950. 87 Sal
- Fruits--Small
- 1650 ALIEVA, S. A. With the aid of scientific workers. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(6):10. June 1950. 95.8 V77  
High yields of grapes.
- 1651 ANSTEY, T. H., and WILCOX, A. N. The breeding value of selected inbred clones of strawberries with respect to their vitamin C content. *Sci. Agr.* 30:367-374. Ref. Sept.1950. 7 Sci2
- 1652 ARTEMOV, A. S. In accordance with agricultural principles. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(7):13. July 1950. 95.8 V77  
Grape culture at Burgun-Madzharskiy Sovkhoz.
- 1653 BECHETOILLE, P. La culture de la fraise dans la Drôme. *Vitic. Arbor.* 95:286-287. Oct.1949. 95.8 R322
- 1654 BELAN, S. Grapes in Primor'e. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(6):51. June 1950. 95.8 V77
- 1655 BIDONE, M. Viticultura: al margen de la cosecha. *Vinos, Viñas y Frutas* 45(538):43,45-46. July 1950. 9 Ag89
- 1656 BINSTADT, Die pflege der pfropfrebe im pflanzjahr. *Landbote* 4(30):4. July 29,1950. 18 L2336
- 1657 BINSTADT, Rationeller pfropfrebenbau bedingt selektion. *Landbote* 4(35):6. Sept.2,1950. 18 L2336
- 1658 BLACKHURST, H. T. New berries for Texas. *Tex. Agr. Col. Ext. Extensioner* 36(11):11. Sept.1950. 275.29 T312E  
Blackberries.
- 1659 BORISOVSKIY, N. A. Vineyards of Azovskiy Sovkhoz [in Stalingrad Region]. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(7):50-51. July 1950. 95.8 V77
- 1660 BOUBALS, D., and HUGLIN, P. Étude de l'incompatibilité au greffage de certains cépages et du 57 R. *Prog. Agr. et Vitic.* 1950:183-189. Sept.17/24,1950. 14 P94
- 1661 BRANAS, J. Les hybrides et le Phylloxera gallicole. *Prog. Agr. et Vitic.* 1950:119-122. Aug.20/27, 1950. 14 P94  
Grapes.
- 1662 BRANAS, J. Travaux de la Section de Sélection et de Contrôle des Bois et Plants de Vignes en 1949. *Prog. Agr. et Vitic.* 1950:255-257. Oct.15,1950. 14 P94
- 1663 BRUNI, B. The "Verdicchio bianco." (In Italian.) *Ital. Agr.* 87:503-506. Aug.1950. 16 It1  
Grape varieties.
- 1664 CANADA. EXPERIMENTAL FARMS SERV. Gooseberry culture. *Canada Dept. Agr. C.* 185,7 p. July 1950. 7 C16C
- 1665 CANADA. EXPERIMENTAL FARMS SERV. Raspberries and blackberries. *Canada Dept. Agr. C.* 183, 11 p. May 1950. 7 C16C
- 1666 CARLIER, L. Cultivons le fraisier. *Défense Agr. de la Beauce et du Perche* 47:340-341. Sept.9,1950. 15 D36
- 1667 CARNEVALE, J. A. El frambueso. *Argentina. Min. de Agr. Almanaque* 25:105-108. 1950. 9 Ag874
- 1668 CHIGRAI, Z. T. For an abundant harvest of grapes. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(7):48. July 1950. 95.8 V77
- 1669 CLAVE, H. Conduite, taille, vinification du baco No. 1. *Rustica* 23:726. Aug.27,1950. 14 R92
- 1670 DALE, L. K. Fruit and berry growing in Hordaland. (In Norwegian.) *Gartneryrket* 40:595-596, 598. Aug.22,1950. 80 G1938
- 1671 DRAIN, B. D., and ROEVER, W. E. Tennessee strawberry. *Tenn. Agr. Expt. Sta. C.* 105,4 p. Aug.1950. 100 T25S
- 1672 FERNANDEZ-CANO, L. H. La calidad de la uva; factores determinantes y posibilidades de mejora. *Spain. Min. de Agr. Serv. de Capac. y Propag. P. Manuales Téc.* 7,59 p. Ref. 1950. 15 Sp14
- 1673 GERASIMOV, M. A. Grape harvesting. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(7):52-54. July 1950. 95.8 V77
- 1674 GURKALOVA, O. F. We pledge ourselves to obtain 200 centners of grapes per hectare. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(6):12. June 1950. 95.8 V77
- 1675 HALL, C. J. Mid-years of 1850's finds growers troubled with insects and "the rot." *Cranberries* 15(6):3-4,11. Oct.1950. 80 C852
- 1676 HALL, C. J. A reason for Wisconsin's growing production--good frost forecasting. *Cranberries* 15(6):7-9. Oct.1950. 80 C852
- 1677 HAY, R. Outdoor vine growing in England. *Gr. Brit. Min. Agr. Agriculture* 57:283-285. Sept.1950. 10 G79J  
Grape culture.
- 1678 HENRIOT. Nouvelle méthode de greffage et de racinage. *Acad. d'Agr. de France. Compt. Rend.* 36:487-488. June 21/28,1950. 14 P215Bc  
Grapes.  
Also in *Prog. Agr. et Vitic.* 1950:244-245. Oct.15,1950. 14 P94
- 1679 HUBERT, M. La réglementation en Champagne. *Potasse* 24:130-131. Sept.1950. 57.8 P84  
Grape culture.
- 1680 JACOBONI, N. Errors in Rieti grape culture. (In Italian.) *Ital. Agr.* 87:490-494. Aug.1950. 16 It1
- 1681 JARDINE, F. A. L. Pruning shy bearing grape vines. *Queensland Agr. J.* 71:91-94. Aug.1950. 23 Q33
- 1682 KELAREV, M. P. They are achieving high production indexes. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(6):50-51. June 1950. 95.8 V77  
Grape culture on Abrau-Dürso State Farm.
- 1683 KOOT, Y. VAN, STAALDUINE, D. VAN, and CAMFFERMAN, J. Culture and fruit set of Muscat grapes in Belgium. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13:417-424. July 1950. 86 N384
- 1684 KRUPENIKOV, I. A. I. V. Michurin on cultural technique in viticulture. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(7):10-12. July 1950. 95.8 V77
- 1685 LACOURCIERE, H. En cueillant des fraises. *Foyer Rur. [Montreal]* 9(12):7,24. Sept.1950. 7 F83
- 1686 LARREA, A. Vides americanas portainjertos. *Spain. Min. de Agr. Serv. de Capac. y Propag. P. Manuales Téc.* 8,209 p. Ref. 1950. 15 Sp14
- 1687 LEVOSHIN, V. K. *ÍAgodnye kul'tury* [Berry crops]. *Stalingrad, Obl. Kno-vo*, 1947. 127 p. 94 L57
- 1688 LUQUE, J. A. Conducción y poda en la vid. *Argentina. Min. de Agr. Almanaque* 25:325-332. 1950. 9 Ag874
- 1689 MAGNUSOV, D. S. Grape grower--Michurinite, V. A. Evdokimov. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(6):52-53. June 1950. 95.8 V77



- 1690 MARCILLA ARRAZOLA, J. Tratado practico de viticultura y enologia españolas, v. 2. Ed. 3, rev. and enl. Madrid, Sociedad Anónima Española de Traductores y Autores, 1950. 517 p. 95.3 M33
- 1691 MARKIN, M. I. Growing grapes from short-ened cuttings. (In Russian.) Vinodel. i Vinograd. SSSR. 10(6):18-22. June 1950. 95.8 V77
- 1692 MATVIENKO, M. I. We are using a differentiated agricultural technique. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):14-15. July 1950. 95.8 V77  
New methods in grape culture at Rekonstruktor Sovkhoz in Rostov Region.
- 1693 MINGUZZI, L. Hybrid grape vines on their own roots. (In Italian.) Flora [Milano] 1:233. Dec. 1949. 80 F6634
- 1694 MORETTI, A. Effets du pincement des bourgeons sur les vignes à vin et sur les vignes à raisins de table. Vitic. Arbor. 95:326-328. Nov. 1949. 95.8 R322
- 1695 NOGINA, A. IA. Our effort for the crop began in the autumn. (In Russian.) Vinodel. i Vinograd. SSSR. 10(6):11-12. June 1950. 95.8 V77  
Grape culture at Seitlerskiy Vinovkhoz.
- 1696 OLDHAM, C. H. Gooseberries! Commercial varieties and aspects of propagation. I. Fruit-Grower 2817:1063-1064. Dec. 22, 1949. 80 F941
- 1697 POPLAVSKIĬ, F. S. Kalacheev grapes. (In Russian.) Sad i Ogorod 1950(7):38-39. July 1950. 87 Sa1  
Hybrid varieties.
- 1698 PRESTON, J. F. A pint of raspberries. Land 9:414-415. Autumn 1950. 279.8 L22  
Culture.
- 1699 RAKE, A. Black currants. Countryman [Burford] 42:148-149. Autumn 1950. 281.28 C83?
- 1700 REINECKE, V. Grapes for the home garden. (In Afrikaans.) Landbouweekblad 32(1620):39. Aug. 2, 1950. 24 L232
- 1701 RIVEROS, J. E. Conviene extender el cultivo de las variedades Pinot. Chacra 20(238):40-41. Sept. 1950. 9 C34  
Grapes.
- 1702 ROMANINI, A. Vineyards and spring frosts. (In Italian.) Avvenire Agr. 58:159-160. July 1950. 16 Av9  
Cultural methods of avoiding damage.
- 1703 SANIKIDZE, A. O. Extensive introduction of the crop rotation system of agriculture into grape production. (In Russian.) Vinodel. i Vinograd. SSSR. 10(6):13-15. June 1950. 95.8 V77
- 1704 SCHALK, A. On blackberry culture. (In Dutch.) Betuws Tuinbouwbld. 8(8):4-5. June 17, 1950. 80 B464
- 1705 SERGEEV, S. S. When to start a [grape] nursery. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):47. July 1950. 95.8 V77
- 1706 SHAKSEL', É. G. New varieties of everbearing strawberries. (In Russian.) Sad i Ogorod 1950(7):76. July 1950. 87 Sa1
- 1707 SHKORPAL', K. K. A vineyard in Birk [Bashkirtia]. (In Russian.) Sad i Ogorod 1950(7):33-38. July 1950. 87 Sa1
- 1708 SIMONOVA, M. N. By I. V. Michurin's method. (In Russian.) Agrobiologiya 1950(3):45-51. May/June 1950. 20 Ag822  
Breeding of strawberry and gooseberry varieties at Moskovskaya Plodovo-Iagodnaya Opytnaya Stantsiya.
- 1709 SNYDER, J. C. Strawberry growing in Washington. Wash. State Col. Ext. B. 246, rev., 50 p. Sept. 1950. 275.29 W27P
- 1710 STATUTI, M. Mountain viticulture. (In Italian.) Campagnolo 5(7/8):5. July/Aug. 1950. 16 C15  
Italy.
- 1711 STOKDIJK, W., and MEYS, M. Q. V. D. Experiences with strawberry culture in boxes. (In Dutch.) Groenten en Fruit 6:46. July 20, 1950. 80 G89
- 1712 TALBERT, T. J. Grape growing in Missouri. Mo. Agr. Expt. Sta. C. 346, 28 p. Mar. 1950. 100 M693
- 1713 TSEBRIL', M. P. Utilization of local varieties of grapes in hybridization. (In Russian.) Vinodel. i Vinograd. SSSR. 10(6):25-26. June 1950. 95.8 V77
- 1714 VALENTIN, J. Renouvellement du vignoble en Anjou, sur les côtes de la Loire, du Layon et de l'Aubance. Potasse 24:123-124. Sept. 1950. 57.8 P84
- 1715 VIDAL, J. P. Les hybrides producteurs directs. Voix des Colons 32(1570):3. (Concl.) Aug. 21, 1950. 24 V85
- 1716 VINALS, J. M. Cuando debe vendimiarse. I-II. Câm. Ofic. Sind. Agr. de Barcelona. B. 5:221-222, 236-238. Aug.-Sept. 1950. 15 C14
- 1717 ZULUAGA, P. A., JULCH, J. A., and MORETTI, R. Ensayos de arraigamiento de vides americanas. Mendoza, Inst. de Invest. Econ. y Tecnol. B. Inform. 1 (spec. no.), 28 p. Ref. 1949. 281.9 M52  
English summary.

## Nuts

- 1718 BEILMANN, A. P. The nut trees. Mo. Bot. Gard. B. 38:145-148. Oct. 1950. 451 M69B
- 1719 CROCE, F. M. Poda del castaño. Vinos, Vinhas y Frutas 45:505-507. June 1950. 9 Ag89
- 1720 HENDRICKSON, A. H., and VEIHMEYER, F. J. Growth of walnut trees as affected by irrigation and nitrogen deficiency. Plant Physiol. 25:567-572. Oct. 1950. 450 P692
- 1721 KIMBALL, M. H. Quality depends on prompt and rapid harvest. Diamond Walnut News 32(5):8-10. Sept. 1950. 94.68 D34
- 1722 LEVEQUE, P. F. Une richesse à reconstituer, la noyerale. Potasse 24:128-129. Sept. 1950. 57.8 P84
- 1723 MAURER, K. J. Ein Beitrag zur walnuss-freilandveredlung. Schweiz. Z. f. Obst- u. Weinbau 59:345-348. Sept. 16, 1950. 80 Sch9
- 1724 POLLANETZ, Strauchnuss (Juglans fertillis). Gart.-Z. Illus. Flora 73:94. Aug. 1950. 80 G1991
- 1725 RAGLESS, G. B. On pruning and pollination. Grower [Adelaide] 5:8, 11. July 1950. 80 G912  
Almond trees.
- 1726 RAGLESS, G. B. Re-working almond trees. Grower [Adelaide] 4(12):8. June 1950. 80 G912

## Shade Trees and Ornamental Plants

- 1727 AL'BENSKIĬ, A. V. Vyrashchivanie krupnykh derev'ev dlia gorodskikh posadok [Growing large trees for city plantings]. Moskva, Ministerstvo Kommunal'nogo Khozjaistva RSFSR, 1950. 34 p. 97.7 AL1
- 1728 ALBERA, A. E. Winter protection of roses. Green Thumb 7(11):11. Nov. 1950. 80 G82
- 1729 ALLEN, P. H. Pollination in Coryanthes speciosa. Amer. Orchid Soc. B. 19:528-536. Oct. 1950. 80 Am329
- 1730 ANDERSEN, O. Culture of roses. (In Portuguese.) Rev. Ceres 8:258-277. Jan./June 1950. 9.2 C332
- 1731 ANDREWS, A. Flower arrangements for the beginner. Org. Gard. 17(4):32-33. Oct. 1950. 56.8 Or3
- 1732 ARNOLD, R. E. Angraecum ellisii. Orchid Rev. 58:123-124. Sept. 1950. 80 Or15
- 1733 ARNOLD, R. E. Anais tuberculosus. Orchid Rev. 58:109. Aug. 1950. 80 Or15
- 1734 ASSOCIATION FRANÇAISE DES AMATEURS DE CACTÉES ET PLANTES GRASSES. Liste des membres (Septembre 1950). Cactus [Paris] 25, 30 p. Sept. 1950. 450 C114
- 1735 AVERY, G. S., JR. Gardens in medieval Visby. Plants & Gard. 6:190-191. Autumn 1950. 450 P694
- 1736 BALL, V. A new wrinkle, mum-snap rotation. South. Florist & Nurseryman 63(27):18-20. Sept. 29, 1950. 80 So86  
Also in Chrysanthemum Soc. Amer. B. 18(4):20-24. Oct. 1950. 11 C46B; Canad. Florist 45(19):10, 12-14. Oct. 2, 1950. 80 C163
- 1737 BARBER, A. Herbaceous plants in woodland and shaded places. My Gard. 41:355-358. Oct. 1950. 80 M995
- 1738 BARNEY, F. D. The growing of hardy Chrysanthemums around Chicago. Natl. Chrysanthemum Soc. B. 6:82-86. Sept. 1950. 96.519 Ea7
- 1739 BASTIN, H. Las rarezas de las Orquídeas. Mundo Agr. 2(15):96-97. Aug. 1950. 9 M92
- 1740 BATES, H. E. Flower gardening: a reader's guide. Cambridge, U. Press, 1950. 23 p. (Natl. Book League. Reader's Guides) 241 B31
- 1741 BEDBROOK, C. The Iris family, Juno section. My Gard. 41:311-313. Sept. 1950. 80 M995
- 1742 BEILMANN, A. P. The Bull Bay Magnolia in St. Louis. Mo. Bot. Gard. B. 38:149-152. Oct. 1950. 451 M69B



- 1743 BENSÀ, S. Late flowering in temperate climates. (In Italian.) *Flora* [Milano] 1:227-229. Dec. 1949. 80 F6634
- 1744 BENSÀ, S. Tuberoses, *Polyanthes tuberosa*. (In Italian.) *Flora* [Milano] 1:226-227. Dec. 1949. 80 F6634
- 1745 BERG. Pour avoir de belles pivolvines. *Rustica* 23:787. Sept. 17, 1950. 14 R92
- 1746 BLACKBURN, B. Plant for permanence, drooping *Leucothoe*. *Flower Grower* 37(11):8-9. Nov. 1950. 80 M72
- 1747 BLACKBURN, B. Plant for permanence, the tea *Viburnum*. *Flower Grower* 37(10):6-7. Oct. 1950. 80 M72
- 1748 BOSHOF-MOSTERT, F. J. Growing Iris in South Africa. *Amer. Iris Soc. B.* 119:43-44. Oct. 1950. 81 Am39
- 1749 BRANDE, F. V. Les Clematites. *Cour. Hort.* 12:553-554. Oct. 1950. 80 C834
- 1750 BROEN, M. Para cultivar Narcisos hay zonas excelentes en el país. *Mundo Agr.* 2(15):27-29. Aug. 1950. 9 M92
- 1751 BRONSDON, D. Housing Cymbidiums in frosty areas. *Austral. Orchid Rev.* 15:66. Sept. 1950. 80 Au73
- 1752 BRUMMITT, MRS. A. Notes from an amateur's collection: deciduous *Calanthes*. *Orchid Rev.* 58:106-107. Aug. 1950. 80 Or15
- 1753 BUNGE, S. Berryring shrubs for the Puget Sound area. *Arboretum B.* 13(3):22, 32. Fall 1950. 451 Ar1
- 1754 BUSH, F. A. Some plants for difficult places. *My Gard.* 41:283-286. Sept. 1950. 80 M995
- 1755 BUSS, W. E. A new strain of Japanese Iris. *Amer. Iris Soc. B.* 118:16-24. Oct. 1950. 81 Am39
- 1756 CALDWELL, S. Iris for you. *Flower Grower* 37(5):30-31, 59-62. May 1950. 80 M72
- 1757 CAZZANIGA, L. The Robinia. (In Italian.) *Flora* [Milano] 1:224-225. Dec. 1949. 80 F6634
- 1758 CHAMBERS, B. My bog garden. *My Gard.* 41:273-274. Sept. 1950. 80 M995
- 1759 CHAN, A. P. Profitable poinsettias. *Canad. Florists* 45(18):20-21. Sept. 15, 1950. 80 C163
- 1760 CHAPLIN, P. Carnation notes: fresh air keeps the plants clean. *Grower* [London] 34:567. Sept. 16, 1950. 286.83 M34
- Similar title in *Grower* [London] 34:887, 889. Oct. 28, 1950. 268.83 M34
- 1761 CHAPLIN, P. H. Carnations [*Dianthus*] for the cut flower market. *Gt. Brit. Min. Agr. Agriculture* 57:234-236. Aug. 1950. 10 G79J
- 1762 CLEMENTS, J. Flower arrangement in Great Britain. *Flower Grower* 37(10):24-25, 45. Oct. 1950. 80 M72
- 1763 CLINCH, F. A. Care should be taken in storing bulbs. *Farm & Gard.* [Watertown, N. Y.] 1950:4. Sept. 30, 1950. 6 F234
- 1764 COCA, E. A. El cultivo del clavel. Argentina. *Mín. de Agr. Almanaque* 25:143-152. 1950. 9 Ag874
- 1765 COMBER, J. Evergreen *Rhododendrons*. *Gard. & Gard.* 1950:111-125. 84 G16
- 1766 COOREMANS, A. Cactacées et succulentes. *Ed. 2. Bruxelles, De Boeck*, 1950. 97 p. 96.3 C78
- 1767 CORKE, C. A. Fragrant gardens. *My Gard.* 41:416-418. Oct. 1950. 80 M995
- 1768 CREVASSE, J. M., JR. Ground covers for Florida gardens. *Fla. Agr. Expt. Sta. B.* 473, 60 p. Sept. 1950. 100 F66S
- 1769 CROOK, H. C. Alpines at home. *Gard. Illus.* 67:272. Sept./Oct. 1950. 80 G169
- 1770 CUMMINGS, M. B. Perennial Asters. *Flower Grower* 37(5):32-33, 62. May 1950. 80 M72
- 1771 CURTIS, C. H. Early-flowering *Chrysanthemums*. *Gard. & Gard.* 1950:22-41. 84 G16
- 1772 CURTIS, C. H. Orchids, their description and cultivation. London, Putnam, 1950. 274 p. 452.3 C942
- 1773 DANVIG, A. M. Blomster gartneriet [Flower gardening]. København, Dansk Studieförslag, 1949? 392 p. (Dansk Erhvervsgartneris Håndbog) 96 D23
- 1774 DAUERNHEIM, M. A. Forcing *Azaleas* in the greenhouse for finished plants. *Florists' Rev.* 107(2758):23-26. Oct. 5, 1950. 80 W41
- 1775 DAWSON, R. B. Lawns: their construction and repair. *Gard. & Gard.* 1950:42-52. 84 G16 In England.
- 1776 DENTON, W. Observations on *Mesembryanthemums*. *Cactus & Succulent J. Gt. Brit.* 12:88-89. Oct. 1950. 450 C113
- 1777 DILATUSH, T. J. Selecting parent stock of holly. *Amer. Nurseryman* 92(10):16-17. Nov. 15, 1950. 80 Am371
- 1778 DOLMAN, J., JR. Iris prone and Iris progress. *Amer. Iris Soc. B.* 119:25-35. Oct. 1950. 81 Am39
- 1779 DORMON, C. Trees give us flowers, too! *Flower Grower* 37(10):26, 41-43. Oct. 1950. 80 M72
- 1780 DOUGLAS, G. Plant new Iris for garden color. *Org. Gard.* 17(4):16-17. Oct. 1950. 56.8 Or3
- 1781 DOUMONT, L. A propos de Mahonia. *Cour. Hort.* 12:458. Ref. Aug. 1950. 80 C834
- 1782 DURLAND, H. C. Prize glads—here's how! *Flower Grower* 37(4):40-41, 83-85. Apr. 1950. 80 M72
- 1783 ECKSTEIN, E. N. Just call me spineless. *Green Thumb* 7(11):12-14. Nov. 1950. 80 G82
- Cactus culture.
- 1784 EDRIDGE, T. G. The gardens at Dartington Hall. *Gard. Illus.* 67:270-271. Sept./Oct. 1950. 80 G169
- 1785 EDRIDGE, T. G. Hardy *Cyclamen*. *My Gard.* 41:295-299. Sept. 1950. 80 M995
- 1786 ELLIS, C. K. Tuberos *Begonias* can be grown by the amateur flower gardener. *New Zeal. J. Agr.* 81:165, 167-169, 171, 172. Aug. 1950. 23 N48J
- 1787 ENGSTEDT, G. The garden around the farmhouse. (In Swedish.) *Kalmar Läns Södra Hushållsk. Årsskr.* 1949:134-137. 11 K122
- 1788 ENOS, R. Turn your thumb green this winter. *Green Thumb* 7(11):14-15. Nov. 1950. 80 G82
- 1789 ERNST, A. Resultate aus kreuzungen zwischen der tetraploiden, monomorphen *Primula japonica* und diploiden, mono- und dimorphen arten der sektion *Candelabra*. Zürich, Füssli, 1950. 135-236 p. 463.69 Er6R
- 1790 ESSON, J. G. Prize winning daffodils. *Flower Grower* 37(10):28. Oct. 1950. 80 M72
- 1791 EVERETT, T. H. Bringing the "blue *Amaryllis*" to flower. *N. Y. Bot. Gard. J.* 51:247-251. Oct. 1950. 451 N48J
- 1792 FEENSTRA, P. The lawn. (In Dutch.) *Volks-tuin* 33:90-91. Aug. 1950. 80 V88
- 1793 FISHER, G. M. Landscape planting costs. *Amer. Nurseryman* 92(10):9-10, 31-35. Nov. 15, 1950. 80 Am371
- 1794 FORTNAM, B. Comments on *Gladiolus* show judging. *Maine Gladiolus Soc. Glad Book* 10:29-31, 33. 1950. 96.43 M28
- 1795 FOSTER, A. L. How to grow the Oconee bells. *Flower Grower* 37(4):30-32. Apr. 1950. 80 M72
- Shortia galacifolia*.
- 1796 FRYE, E. M. And finally. *Arboretum B.* 13(3):10-12, 34-36. Fall 1950. 451 Ar1
- Landscape gardening.
- 1797 FUCHS, M. H. L'amateur de jardins devant les collections actuelles de roses. *Jard. de France* (ser. 7) 4:183-188. July/Aug. 1950. 86 So13
- 1798 GAMBIE, J. A. Roses unlimited. Harrisburg, 1950. 82 p. 96.1 G14
- 1799 GILKEY, H. M. Ornamental native woody plants of Oregon. *Arboretum B.* 13(3):13-15, 27. Fall 1950. 451 Ar1
- 1800 GLAVIND, G. The tulip. (In Danish.) *Gart.-Tid.* 66:331-332. Aug. 9, 1950. 80 G192
- 1801 GODDARD, J. H. Housing *Chrysanthemums*. *Amateur Gard.* 67(3461)12. Sept. 26, 1950. 80 Am13
- 1802 GONZALEZ, E. El cesped. *Agronomia [Habana]* (ser. 2) 10(8):30-32. (To be cont.) Aug. 1950. 8 C893
- 1803 GORRELL, P. H. A succession of daffodils. *Ind. Gard.* 14(3):9-10. Autumn 1950. 90.32 In2
- 1804 GOURLAY, W. B. *Puya alpestris* in its native land. *Roy. Hort. Soc. J.* 75:399-402. Oct. 1950. 84 L84J
- 1805 GRAYSON, E. C. The theme is spring! Your garden flowers come indoors. *Flower Grower* 37(4):35, 60-62. Apr. 1950. 80 M72
- Flower arrangement.
- 1806 GREEN, G. G. Stemless *Mesembryanthemums*. *Cactus & Succulent J. Gt. Brit.* 12:82-87. (Cont.) Oct. 1950. 450 C1:3



- 1907 GREEN, J. Thorns also and thistles. A story about ornamental cacti. *Org. Gard.* 17(4):30-31. Oct. 1950. 56.8 Or3
- 1908 HAISLIP, M. P. Our winsome violets. *Flower Grower* 37(4):20-22. Apr. 1950. 80 M72
- 1909 HAMBLIN, S. F. Old rose portraits. *Amer. Rose Mag.* 9(2):15. Sept./Oct. 1950. 80 Am327A  
*Rosa damascena*.
- 1910 HANGER, F. Shrubs and climbers for walls. *Gard. & Gard.* 1950:89-110. 84 G16
- 1911 HARDY, J. Perpetual carnations. *Nurseryman & Seedsman* 111:584-585. (To be cont.) Sept. 7, 1950. 80 N933
- 1912 HARRIS, J., and CHAMBLEE, D. S. Carolina lawns. *N. C. Agr. Col. Ext. C.* 292, rev., 12 p. Aug. 1950. 275.29 N811
- 1913 HARVEY, N. P. The rose as a cut flower. *Gard. Chron.* 128:158-159. Oct. 14, 1950. 80 G162
- 1914 HAUSNER, F. Blattpflanzen und fettpflanzen (sukkulente). *Berufsgärtner* 3(7):5-6. July 1950. 80 B463
- 1915 HAWKES, A. D. The major genera of cultivated orchids. VI. *Amer. Orchid Soc. B.* 19:558-560. Oct. 1950. 80 Am329
- 1916 HAWORTH-BOOTH, M. A garden tour in late summer. *Country Life* [London] 108:1193. Oct. 13, 1950. 80 C83
- 1917 HAY, R. Gardens today. *Gard. & Gard.* 1950:9-21. 84 G16  
In England.
- 1918 HAY, T. Choice hardy plants. *Gard. & Gard.* 1950:53-73. 84 G16
- 1919 HERRE, H. *Delosperma sutherlandii* (Hook. f.) N.E. Br. *Cactus & Succulent J. Gt. Brit.* 12:89. Oct. 1950. 450 C113
- 1920 HERRICK, A. C. An alphabetical table of the species of the genus *Iris*. London? *Iris Soc.*, 1949. 12 p. 96.45 H43
- 1921 HIERONYMUS, A. M. Vegetative propagation of trees and shrubs. Hawaii. *U. Agr. Ext. C.* 291, 11 p. Aug. 1950. 275.29 H312Ac
- 1922 HIGGINS, V. The cactus grower's guide. London, Latimer, 1950. 120 p. (New Gard. Ser.) 96.3 H53C
- 1923 HISAUCHI, K. *Convolvulus farinosa* is cultivable in Tokyo. (In Japanese.) *J. Jap. Bot.* 25:94. May 1950. 450 J8223
- 1924 HOEHNE, F. C. A plant of the Northeast [Brazil] carries out the miracle of the Resurrection. (In Portuguese.) *Seleç. Agr.* 5(52):30. Aug. 1950. 9.2 Se4  
*Selaginella convoluta*.
- 1925 HUNTLEY, M. Light up the shady corner. *My Gard.* 41:319-320. Sept. 1950. 80 M995  
Ornamentals.
- 1926 INGWERSEN, W. Erigerons for the rock garden. *My Gard.* 41:386-388. Oct. 1950. 80 M995
- 1927 JENKINS, D. H., and ALLEN, O. E. Best plants for the indoor garden. *Flower Grower* 37(11):32-33. Nov. 1950. 80 M72
- 1928 JOHNSON, E. W. Ornamental woody vines for the southern Great Plains. *U. S. D. A. Farmers' B.* 2015, 22 p. July 1950. 1 Ag84F
- 1929 JOHNSON, L. R. How to landscape your grounds. Ed. 2. New York, De la Mare, 1950. 257 p. 98 J62
- 1930 KAMMERER, E. L. Plants for use with contemporary architecture. *Morton Arboretum B. Pop. Inform.* 25:35-42. Sept./Oct. 1950. 99.9 M84
- 1931 KAMMERER, E. L. Twelve good berried shrubs for the Midwest. *Arboretum B.* 13(3):16-17, 38. Fall 1950. 451 Ar1
- 1932 KELWAY, C. A visit to a Cornish daffodil farm. *My Gard.* 41:237-241. Sept. 1950. 80 M995
- 1933 KEMP, W. S. Mercury Bay weed [*Dichondra repens*] as a lawn plant. *New Zeal. J. Agr.* 81:109, 111-112. Aug. 1950. 23 N48J
- 1934 KILLINGER, G. B. Keep your winter lawns green; build a lawn on a lawn with winter rye grass. *Fla. Grower* 58(11):8, 31. Nov. 1950. 80 F6622
- 1935 KIMBROUGH, W. D., SMITH, C. E., and HANCHEY, R. H. Camellias for the yard. *La. Agr. Expt. Sta. B.* 391, rev., 39 p. June 1950. 100 L93
- 1936 KLANG, I. I. Oranzherei i parniki v dekorativnom sadovodstve [Greenhouses and hotbeds in ornamental horticulture]. Moskva, Ministerstvo Kommunal'nogo Khoziaistva RSFSR, 1950. 173 p. 90.14 K66
- 1937 KNIGHT, F. P. Twelve good berrying shrubs. *Arboretum B.* 13(3):20-21, 29. Fall 1950. 451 Ar1
- 1938 KOERNER, A. C. Where to from here? No. *Amer. Gladiolus Council. B.* 1950:17-19. Sept. 1950. 96.43 N81  
*Gladiolus* varieties.
- 1939 KOFRANEK, A. M. Spike and corm production as influenced by depth of planting. No. *Amer. Gladiolus Council. B.* 1950:21-23. Sept. 1950. 96.43 N81
- 1940 KRÜSSMANN, D. Das Hibiscus-sortiment. *Deut. Baumsch.* 2:237-240. Oct. 1, 1950. 80 D486
- 1941 LANCASTER, M. From a designer's palette. *Arboretum B.* 13(3):18-19, 36. Fall 1950. 451 Ar1  
Ornamental shrubs.
- 1942 LANGELE, H. How to grow tulips. *Flower Grower* 37(10):23, 46-48. Oct. 1950. 80 M72
- 1943 LAWRENCE, M. Lessons from the 9th national show [of the American Primrose Society]. *Amer. Primrose. Soc. Q.* 8:3-4. July 1950. 96.575 Am3
- 1944 LEDESMA, N. R. Arboles criollos ornamentales: los ceibos. *Chacra* 20(238):30. Sept. 1950. 9 C34  
*Erythrina*.
- 1945 LEROY, M. A. Rosiers botaniques & roses horticoles. *Jard. de France (ser. 7)* 4:175-182. July/Aug. 1950. 86 So13
- 1946 LIBOWITZKY, A. Blütenbäume für parkanlagen. *Gart.-Z. Illus. Flora* 73:83. July 1950. 80 G1991
- 1947 LOVELOCK, B. Late flowers on the rockery. *Amateur Gard.* 67(3461):16. Sept. 26, 1950. 80 Am13
- 1948 LUNDSTAD, A. Finland's white rose. (In Norwegian.) *Norsk Hagetidend* 66:161-162. Aug. 1, 1950. 80 N81
- 1949 MCFARLAND, F. E. Cultured carnations; grower uses scientific methods to obtain disease-free plants. *Florists' Rev.* 107(2763):37-38. Nov. 9, 1950. 80 W41
- 1950 MCKENNEY, G. R. *Gladiolus* variety parentages, 1950. No. *Amer. Gladiolus Council. B.* 1950:35-69. Sept. 1950. 96.43 N81
- 1951 MACSELF, A. J. Hardy perennials. London, Collingridge, 1950. 304 p. 97.42 M24Ha
- 1952 MAGIE, R. O. *Gladiolus* research in Florida 1949-1950 season. No. *Amer. Gladiolus Council. B.* 1950:81-82, 84, 87. Sept. 1950. 96.43 N81
- 1953 MARR, R. *Rosa centifolia*. *Amer. Rose Mag.* 9(2):21-22. Sept./Oct. 1950. 80 Am327A
- 1954 MAUTHE, J. L. An orchid survey—the technique of production. 1. South. *Florist & Nurseryman* 63(29):37-40. Oct. 13, 1950. 80 So86
- 1955 MEILLAND, F. Protection et commercialisation des roses nouvelles. *Cour. Hort.* 12:536-538. Oct. 1950. 80 C834
- 1956 MIKKLESSEN, J. C. Year 'round flowering *Chrysanthemums*. *Chrysanthemum Soc. Amer. B.* 18(4):25-31. Oct. 1950. 81 C46B
- 1957 MINGUZZI, L. The Betula. (In Italian.) *Flora* [Milano] 1:225. Dec. 1949. 80 F6634
- 1958 MISSOURI UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Leader's guide. Home grounds. I. Columbia, 1950. 4 p. 275.29 M69Le  
4-H Club project.
- 1959 MORAN, R. *Dudleya formosa*, a new species from northern Baja California. *Desert Plant Life* 22:65-68. June 1950. 450 D45
- 1960 MORLEY, F. A. Know your roses. *Flower Grower* 37(10):32-33. Oct. 1950. 80 M72
- 1961 MULDER, H. The Cattleya and its culture. (In Dutch.) *Vakbl. v. de Bloemisterij* 5:285. (In Dutch.) Sept. 8, 1950. 80 V22
- 1962 MULDER, H. On the culture of Bromeliaceae. (In Dutch.) (To be cont.) *Vakbl. v. de Bloemisterij* 5:245. Aug. 4, 1950. 80 V22
- 1963 MUNRO, J. Propagation & culture of a handsome foliage subject. *Nurseryman & Seedsman* 111:458-459. Aug. 24, 1950. 80 N933  
*Dracaenas*.



- 1864 NAYLOR, S. Winter watering and blossom. *Cactus & Succulent J. Gt. Brit.* 12:80. Oct.1950. 450 C113
- 1865 NEARING, G. G. Anyone can grow Rhododendrons. *Flower Grower* 37(4):43,78-80. Apr.1950. 80 M72
- 1866 NIELSEN, B. F. The French garden. (In Norwegian.) *Norsk Hagetidend* 66:189-192. Oct.1/15, 1950. 80 N81
- 1867 NIKLITSCHKE, A. Die hauptfehler in der topfpflanzenkultur. *Gart.-Z. illus. Flora* 73:77-82. July 1950. 80 G1991
- 1868 NIKLITSCHKE, A. Das kussröschen [*Rosa multiflora*]. *Gärt.-Kur.* 5(13):1-2. July 1,1950. 80 G1942
- 1869 NIKLITSCHKE, A. Neue taglilien. *Gärt.-Kur.* 5(15):1-2. Aug.1.1950. 80 G1942
- 1870 NIKLITSCHKE, A. Neues von unserer rose. *Gärt.-Kur.* 5(14):1-2. July 15,1950. 80 G1942
- 1871 NIKLITSCHKE, A. Richtige kultur unserer topfpflanzen. *Gart.-Z. illus. Flora* 73:92-93. Aug.1950. 80 G1991
- 1872 NOBLE, M. Amateur potpourri. *Amer. Orchid Soc. B.* 19:493-494. Sept.1950. 80 Am329
- 1873 OSBORN, A. Shrubs and trees. *Gard. & Gard.* 1950:126-148. 84 G16
- 1874 PAGE, G. O. Forced bulbs need even temperature. *Grower [London]* 34:779,781. (Cont.) Oct.14,1950. 268.83 M34
- 1875 PEYTON, G. W. Best peonies, 1950. *Flower Grower* 37(10):30-31,38-39. Oct.1950. 80 M72
- 1876 PHILLIPS, G. A. Delphiniums, their history and cultivation. Rev. ed. London, Eyre & Spottiswoode, 1949. 114 p. (Home Gard. Books. London) 96.527 P53
- 1877 PHILLIPS, G. A. R. Plants to succeed in industrial areas. *Nurseryman & Seedsman* 111:586-587. Sept.7,1950. 80 N933
- 1878 POLLANETZ, P. *Paeonia arborea*. *Gärt.-Kur.* 5(12):3-4. June 15,1950. 80 G1942
- 1879 PRING, G. H. The bucket orchid of the West Indies, *Coryanthes macrantha*. *Amer. Orchid Soc. B.* 19:550-551. Oct.1950. 80 Am329
- 1880 PROCTOR, C. M. Desert glamour on your windowsill. *Flower Grower* 37(11):24-25,46-47. Nov. 1950. 80 M72
- 1881 PUDDLE, C. E. *Eucryphia*. *My Gard.* 41:242-244. Sept.1950. 80 M995
- 1882 PUDDLE, F. C. Early-flowering *Chrysanthemums*. *My Gard.* 41:289-292. Sept.1950. 80 M995
- 1883 PUDDLE, F. C. Orchids for small greenhouses. *My Gard.* 41:381-385. Oct.1950. 80 M995
- 1884 RAUSCHER, K. Die nelken. *Berufsgärtner* 3(8):4-5. Aug.1950. 80 B463
- 1885 RAUSCHER, K. *Selaginella*. *Gartenbauwirtschaft [Berlin]* 1950:155. July 10,1950. 80 G1936
- 1886 RICHARDSON, E. Marsh-gardens; their construction and maintenance. Ed. 2. London, Water Life, 1950? 32 p. ("Water Life" Ser., 7) 97.16 R39
- 1887 ROEKENS, F. *Les Yucca*. *Cour. Hort.* 12:546-548. (To be cont.) Oct.1950. 80 C834
- 1888 ROWNTREE, L. Lupines on the West Coast. *Flower Grower* 37(11):28-29,41-42. Nov.1950. 80 M72
- 1889 RUSANOV, F. N. Tamarix in the field protecting belts. (In Russian.) *Lesn. Khoz.* 3(3):40-42. Mar. 1950. 99.8 L562
- 1890 RYAN, R. W. Current *Gladiolus* research. No. *Amer. Gladiolus Council. B.* 1950:91-92,94,96. Sept.1950. 96.43 N81
- 1891 SCHERY, R. W. Autumn coloration in Missouri. *Mo. Bot. Gard. B.* 38:139-143. Oct.1950. 451 M69B
- 1892 SCHWARZ, F. Guerrero is my destination. *Desert Plant Life* 22:69-71. June 1950. 450 D45
- 1893 SECKMAN, M. C. Winter flowers from bulbs. *Flower Grower* 37(11):30-31,43. Nov.1950. 80 M72
- 1894 SEELEY, J. G. Latest developments in scientific floriculture. *Canad. Florist* 45(18):10-13,26. Sept. 15,1950. 80 C183
- 1895 SHEPHERD, R. E. Color in the rose garden. *Flower Grower* 37(10):20-21,40-41. Oct.1950. 80 M72
- 1896 SHEPHERD, R. E. Fall planting of roses. *Flower Grower* 37(10):22,49-51. Oct.1950. 80 M72
- 1897 SHEWELL-COOPER, W. E. Garden lillies; they will grow under a surprisingly wide range of conditions. *Field* 196:385. Sept. 2,1950. 10 F45
- 1898 SHEWELL-COOPER, W. E. The influence of *Pelargoniums*. *Fruit-Grower* 2857:406. Sept.28,1950. 80 F941
- 1899 SHIPPY, B. L. A collector's notes on ivies [*Hedera helix*] new and old. *Flower Grower* 37(11):22-23, 56-60. (To be cont.) Nov.1950. 80 M72
- 1900 SKARPEID, A. Propagation of greenhouse roses from cuttings. (In Norwegian.) *Gartneryrket* 40:683-686. Sept.30,1950. 80 G1938
- 1901 SMITH, C. W. The South African Dahlia book. Johannesburg? Cent. News Agency, 1949. 108 p. 96.524 Sm5
- 1902 SMITH, H. A small garden of heaths. *Countryman [Burford]* 42:61-64. Autumn 1950. 281.28 C832
- 1903 SMITH, K. D. A "preview" of some newer British daffodils. *Flower Grower* 37(4):47,63-66. Apr. 1950. 80 M72
- 1904 SOMERSET, G. C. Pot plants for market. 3. Forced plants need hardening before sale. *Grower [London]* 34:677-678. Sept.30,1950. 268.83 M34
- 1905 SÖRLIN, A. Notes on Arb. Bäck's garden in Ribby. (In Swedish.) *Svenska Linné-Sällsk. Årsskr.* (1949)32:71-76. 1950. 502 Sv2
- English summary, p. 119.
- 1906 STEARN, W. T. *Nepeta mussifinii* and *N. faassenii*. *Roy. Hort. Soc. J.* 75:403-406. Oct.1950. 84 L84J
- 1907 STEVENSON, V. Prepared flower arrangements. *Gard. illus.* 67:273. Sept./Oct.1950. 80 G169
- 1908 STEVENSON, V. W. 'Valley' forced in boxes flowers in three weeks. *Grower [London]* 34:612-613. Sept.23,1950. 268.83 M34
- Lillies of the valley.
- 1909 STEYERMARK, J. A. Scarlet oak [*Quercus coccinea*] in Missouri. *Mo. Bot. Gard. B.* 38:143-145. Oct.1950. 451 M69B
- 1910 STILLWELL, M. A propagator for seeds. *Cactus & Succulent J. Gt. Brit.* 12:92. Oct.1950. 450 C113
- 1911 STUART, N. W. Greenhouse forcing of early-maturing Georgia lily bulbs. *Florists' Rev.* 107(2758):27-28. Oct.5,1950. 80 W41
- Similar title in *Florists' Exch.* 115(15):15. Oct.7,1950. 80 F666
- 1912 TABOR, G. When you design a garden plants are your raw materials. *Flower Grower* 37(5):26-28,54-56. May 1950. 80 M72
- 1913 TANAGEL, G. D. Growing *Gladiolus* from stem bulbs. (In Russian.) *Sad i Ogorod* 1950(7):77-78. July 1950. 87 Sa1
- 1914 TAYLOR, F. J. The world's most colorful club. *Sat. Evening Post* 223(18):34-35,142,144-145. Oct.28,1950. 110 Sa8
- California Spring Garden Show.
- 1915 TAYLOR, G. M. Roses: their development during the past half-century. *Gard. & Gard.* 1950:74-88. 84 G16
- 1916 TAYLOR, G. M. Show *Auriculas*. *Roy. Hort. Soc. J.* 75:386-390. Oct.1950. 84 L84J
- Primula*.  
Similar title in *My Gard.* 41:403-407. Oct.1950. 80 M995
- 1917 THOMAS, MRS. A. Old Kentucky gardens. *Natl. Gard.* 21(9/10):10-11,26-27. Sept./Oct.1950. 90.32 N21
- 1918 THOMAS, D. G. The 1950 sweet pea season. *Amateur Gard.* 67(3461):15. Sept.26,1950. 80 Am13
- 1919 THOORN, J. J. E. VAN DEN. *Mammillaria mazatlanensis* Sch. (In Dutch.) *Succulenta* 1950:75-76. Sept./Oct.1950. 450 Su12
- 1920 THOORN, J. J. E. VAN DEN. Vermeerdering uit bladstek. (In Dutch.) *Succulenta* 1950:77-78. Sept./Oct.1950. 450 Su12
- 1921 THORN, W. C. Modern roses. *My Gard.* 41:361-373. Oct.1950. 80 M995
- 1922 TÖGEL, V. Ein hauptfaktor des gartens: die hecke. *Berufsgärtner* 3(9):5. Sept.1950. 80 B463



- 1923 TÖGEL, V. Rasenanlage und rasenpflege. *Berufsgärtner* 3(7):2-4. July 1950. 80 B463
- 1924 UITEWAAL, A. J. A. *Aloe arborescens* Miller. (In Dutch.) *Succulenta* 1950:67-70. Sept./Oct. 1950. 450 Su12
- 1925 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Bentgrass [Agrostis] for lawns, by M. H. Ferguson and I. Forbes, Jr. Beltsville, Md., 1950. 2 p. 1.965 F2B44
- 1926 U. S. CIVIL AERONAUTICS ADMIN. Airport landscape planting. Washington, 1950. 20 p. 173 C49Air
- 1927 VAN BRUNT, E. R. Hedges, edges and accents. *Plants & Gard.* 6:168-172. Autumn 1950. 450 P694
- 1929 VAN DIJK, W. The development of the tulip from the sixteenth century. *Tulip Tidings* 3(2):20-23. 1950. 96.49 T822
- 1929 VEAU, E. Commentaires sur la classification des Cactacées. *Cactus [Paris]* (6,sup.) 1950:1. Sept. 15, 1950. 450 C114
- 1930 VILMORIN, R. DE. Manuel de floriculture, v. 1. Paris, Baillière, 1950. 427 p. 96 V712M
- 1931 VINCENT, S. La protection des plantes contre l'hiver. *Foyer Rur. [Montreal]* 10:4. Oct. 1950. 7 F83 Ornamental plants.
- 1932 VINCENT, S. Le rajeunissement des haies. *Foyer Rur. [Montreal]* 9(12):9. Sept. 1950. 7 F83
- 1933 WALKER, MRS. A. W., comp. History of the Garden Club of South Carolina, 1930-1950. Spartanburg, S. C., 1950. 114 p. 90.32 W15
- 1934 WALMSLEY, A. Rock gardening in Scotland. *My Gard.* 41:409-412. Oct. 1950. 80 M995
- 1935 WANDL, H. Warum nicht wieder Pentstemon (Penstemon, bartfaden) kultivieren? *Gärt.-Kur.* 5(15):2. Aug. 1, 1950. 80 G1942
- 1936 WARD, W. H. Fundamentals for beginners. *Amer. Rose Mag.* 9(2):11-14. Sept./Oct. 1950. 80 Am327A Rose culture.
- 1937 WATKINS, J. V. Gardenias in Florida. *Fla. Agr. Col. Ext. B.* 145, 16 p. Aug. 1950. 275.29 F66
- 1938 WATSON, W. L. A study of Cyclamen persicum with special reference to its nutrition, hypocotyl development, and optimum temperature for germination. *Mich. U. Microfilm Abs.* 10(3):127-128. 1950. 241.8 M58
- 1939 WELLS, E. W., and WELLS, MRS. E. W. Orchids and gardens of the Southern States and Caribbean Gulf area. *Amer. Orchid Soc. B.* 19:472-477, 540-547. Sept.-Oct. 1950. 80 Am329
- 1940 WELLS, J. B. Planting out border carnations. *Amateur Gard.* 67(3461):14. Sept. 26, 1950. 80 Am13
- 1941 WIBEL, N. E. Primroses for everyone. *Flower Grower* 37(5):34-35, 63-65. May 1950. 80 M72
- 1942 WILLIAMS, J. R. The utilitarian value of trees. *USGA Journal* 3(5):9-12. Sept. 1950. 60.18 Un32 On a golf course.
- 1943 WILSON, J. Violas. *Roy. Hort. Soc. J.* 75:396-397. Oct. 1950. 84 L84J
- 1944 WOOD, W. W. The Ohio judging school. *New Eng. Gladiolus Soc. Gladiolus Mag.* 14(4):9-11, 52. Sept. 1950. 96.43 N44Suppl.
- 1945 WYATT, O. E. P. The hybridizing of lilies; an amateur's approach. *Roy. Hort. Soc. J.* 75:378-386. Oct. 1950. 84 L84J
- 1946 WYMAN, D. Pink flowering dogwood. *Flower Grower* 37(4):18. Apr. 1950. 80 M72
- 1947 ZEINER, H. M. Gardening indoors. *Green Thumb* 7(11):6-10. Nov. 1950. 80 G82
- 1948 ZIM, H. S., and MARTIN, A. C. Flowers; a guide to familiar American wildflowers. New York, Simon and Schuster, 1950. 157 p. 455 Z6
- 1952 BANGA, O. Breeding methods of red garden beet. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:575-592. Aug./Sept. 1950. 86 N384 English summary.
- 1953 BELLISIO, F. B. Un frutto tres en uno: el tomate. *Asoc. Gen. de Agr. B.* 277(Sup. Agr. 2(39):3,7.) Aug. 30, 1950. 8 As52
- 1954 BELS, P. J. Some problems of mushroom cultivation. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:639-655. Ref. Aug./Sept. 1950. 86 N384 English summary.
- 1955 BENEDIX, E. H. Kleiner pilzlehrgang für anfänger. VI. Nat. u. Nahr. 4(13/14):18-20. July 1950. 80 N218
- 1956 BLIN, H. Pour avoir une provision de choux-fleurs en hiver. *Acclimatation* 77:210. Sept. 30, 1950. 14 Ac2
- 1957 BLOM, A. Cauliflower culture in the Boven-Betuwe and in the Nijmegen district. (In Dutch.) *Groenten en Fruit* 6:31. July 13, 1950. 80 G89
- 1958 BONNICEL, R. La récolte de pommes de terre. *J. de la France Agr.* 6:1117, 1120. Sept. 22/28, 1950. 14 J829
- 1959 BOROKHOVICH, B. O., and PETROV, N. P. Agrotehnika peredovikov-kartofelevodov [Agricultural practices of the leaders in potato growing]. Leningrad? Leningradskoe Gazetno-Zhurnal'noe i Knizhnoe Izd-vo, 1950. 87 p. 75 B645
- 1960 BOSWELL, V. R. Commercial growing and harvesting of sweetpotatoes. U. S. D. A. Farmers' B. 2020, 38 p. Aug. 1950. 1 Ag84F Supersedes Farmers' Bulletin 999.
- 1961 BOYD, D. A., and DYKE, G. V. Maincrop potato growing in England and Wales. Lake Success? 1950. 13 p. (United Nations. [Doc.] E. CN.3/Sub.1/28) 75 B692
- 1962 BRETON, R., and REYNARD. La conservation des semences de pommes de terre. Pomme Terre Franç. 13(132):16-21. Sept. 1950. 75.8 P77
- 1963 BREZHNEV, D. D. Effect of growth conditions on variation of varietal characteristics in tomatoes. (In Russian.) *Sad i Ogorod* 1950(7):49-55. July 1950. 87 Sa1
- 1964 CAPINPIN, J. M., and ALVIAR, M. A. Heterosis in the eggplant. *Philippine Agr.* 33:126-141. Oct./Dec 1949. 25 P542
- 1965 CAPULER, B. On the problem of potato-growing in the autumn. *Hassadeh* 30:549-550. July 1950. 26 H27 In Hebrew.
- 1966 CARTER, J. F. Watermelon varieties. *Mkt. Growers J.* 79(10):20-21. Oct. 1950. 6 M34
- 1967 CAVAZZA, L. Varieties of asparagus. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:252-253. Sept. 30, 1950. 16 C72
- 1968 CAWTHRON INSTITUTE. Tomato research. Annual report for 1949-50. Cawthron Inst. B. 59, 2 p. 1950. 23 C31B
- 1969 CHERNETCHENKO, V. S., and TKACHENKO, F. A. Intervarietal pollination—effective method for increasing yields of melon crops. (In Russian.) *Sad i Ogorod* 1950(7):55-58. July 1950. 87 Sa1
- 1970 CHMORA, N. IA. Cultivation of potatoes with seedlings. (In Russian.) *Selek. i Semen.* 17(5):75-76. May 1950. 61.9 Se5
- 1971 CLARA, F. M. Mushrooms. *Agr. & Indus. Life* 12(8):5, 31. Aug. 1950. 25 Ag8
- 1972 CONCHA A., A. Cultivo de la lenteja. *Tractorista* 3(13):4-5. May 1950. 58.8 T676
- 1973 CORTIN, B. *Russula aeruginea*; a delicious food mushroom. (In Swedish.) *Skogsägaren* 26:173. Aug. 1950. 99.8 Sk55
- 1974 COULTER, F. C. For pleasure and profit start growing vegetables. *Flower Grower* 37(4):36-37, 69-71. Apr. 1950. 80 M72
- 1975 CURTIS, L. C., and SCARCHUK, J. Caserta banishes late, low yields. *South. Seedsman* 13(10):52-53. Oct. 1950. 61.8 So8 A squash variety.
- 1976 DALE, L. K. Vegetable culture in Hordaland. (In Norwegian.) *Gartneryrket* 40:610, 612-613. Aug. 22, 1950. 80 G138

## Vegetable and Truck Crops (Including Potatoes)

- 1949 AMARGOS, J. L. Cultivo del tomate para enlatar. *Agronomia [Habana]* (ser. 2) 10(8):6-11. Aug. 1950. 8 C893
- 1950 AMBROSOV, A., and SHLIKHOTO, S. Some problems in cultural practices for potato varieties. (In Russian.) *Sad i Ogorod* 1950(7):70-73. July 1950. 87 Sa1
- 1951 ATKINS, F. C. Mushroom growing to-day. London, Faber, 1950. 187 p. 91.7 At5



- 1977 DANVIG, A. M. Køkken gartneriet [Vegetable gardening]. København, Dansk Studieförslag, 1949. 200 p. (Dansk Erhvervsgartneris Handbog) 91 D23
- 1979 DENMARK. STATENS FORSØGSVIRKSOMHED I PLANTEKULTUR. Sorts- og stamme-forsøg med vinterporre. 1946-48 [Tests with strains and varieties of winter leek. 1946-48]. Denmark. Stat. Forsøgsvirks. i Plante-kult. Meddel. 449, 4 p. Dec. 1, 1949. 11 D412M
- 1979 DRAB, J. The experiments with the influence of humidity on the cut potato-tubers and with the length of time elapsing from their cut till planting. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:563-568. 1950. 19.5 C332C  
English summary.
- 1980 DULLFORCE, W. Growing on moss and mountain side. Grower [London] 34:615. Sept. 23, 1950. 286.83 M34  
Celery.
- 1981 ESBO, H., FERNHOLM, H., and PETTERSSON, G. Potatisodlaren [The potato grower]. Stockholm, LT:s Förlag, 1950. 279 p. 75 Es1
- 1982 ETTINGER, J., and SELINGER, A. Vegetable growing for beginners. 8. Hassadeh 30:557-563. July 1950. 26 H27  
In Hebrew.
- 1983 FIRBAS, E. Esta muy a nuestro alcance el mejoramiento de la zanahoria. Mundo Agr. 2(15):20. Aug. 1950. 9 M92  
Culture.
- 1984 FLORES A., M. A. El camote como fuente de alimentación. Cent. Nac. de Agron. C. Agr. 11, 4 p. June 1950. 8 Sa54C  
Culture.
- 1985 GILKEY, H. M. Truffles in America. Nature Mag. 43:461-463. Nov. 1950. 409.6 N214
- 1986 GLUKHOV, A. I. Frunze district seed farm. (In Russian.) Selek. i Semen. 17(5):71-72. May 1950. 61.9 Se5  
Culture of new bean variety, Belosemiannafâ.
- 1987 GRANT, R. Spring greens may pay better than hearted stuff. Grower [London] 34:776-777, 779. Oct. 14, 1950. 268.83 M34  
Cabbage culture.
- 1989 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Outdoor tomatoes. Gt. Brit. Min. Agr. & Fisheries. Adv. L. 360, 5 p. July 1950. 10 G79La
- 1989 GROHS, B. Etwas über den afghanischen gartenbau. Gartenbauwirtschaft [Berlin] 1950:150. July 10, 1950. 80 G1936  
Chiefly on vegetable culture.
- 1990 HANCE, O. J. Fall crops. Prof. Gard. 2:223. Sept. 1950. 80 P945  
Vegetables.
- 1991 HARRIS, R. S. Las plantas comestibles de Centro América y Panama. Ofic. Sanit. Panamer. B. 29: 841-846. Aug. 1950. 449.9 P192B
- 1992 HASTINGS, M. I've had fun with tomatoes. Flower Grower 37(5):39, 66-67. May 1950. 80 M72
- 1993 HENNIG, B. Hexenmeister im walde. Nat. u. Nahr. 4(13/14):16-18. July 1950. 80 N218
- 1994 HEPLER, B. R., and others. Tomatoes for New Hampshire. N. H. Agr. Col. Ext. C. 299, 20 p. June 1950. 275.29 N45C  
E. E. Ellis, M. C. Richards, and J. G. Conklin, joint authors.
- 1995 INIGUEZ GARCIA, J. El cultivo de "la zanahoria." Tierra [Mexico] 5:474-476, 506-508. Sept. 1950. 8 T445
- 1996 KLINKOVITZKY, S. Sowing dates of cabbage and cauliflower varieties. Hassadeh 30:552-553. July 1950. 26 H27  
In Hebrew.
- 1997 KLINKOVITZKY, S. The time for planting autumn potatoes. Hassadeh 30:554. July 1950. 26 H27  
In Hebrew.
- 1998 KNAUER, W. Gemüsesamen-anbau in der krise. Hannoversche Land- u. Forstwirt. Ztg. 103:333, 335. Apr. 1, 1950. 18 H194
- 1999 KNOTT, J. E., and LORENZ, O. A. Vegetable production. In Advances in agronomy, v. 2, p. 113-155. Ref. New York, Acad. Press, 1950. 30 Ad9
- 2000 KRICKL, M. Radies: kritische beurteilung vom standpunkt des verbrauchers und des züchters. Gartenbauwirtschaft [Berlin] 1950:153-154. (Cont.) July 10, 1950. 80 G1936
- 2001 KRUIJK, P. A. The tomato plants in the summer months. (In Dutch.) Groenten en Fruit 5:1014. June 29, 1950. 80 G89
- 2002 LEBRETON, F. Pommes de terre: les variétés commerciales. II. Fructidor (n.s.) 16(26):7. Sept. 15, 1950. 286.83 F9423
- 2003 LEZHEPEKOV, S. A. New potato varieties of Ul'fanovskafâ [Potato] Experiment Station. (In Russian.) Sad i Ogorod 1950(7):73-74. July 1950. 87 Sa1
- 2004 MCGREGOR, W. G., MACLEAN, A. J., and WALLE, V. R. Field beans in Canada. Canada Dept. Agr. Farmers' B. 164, 16 p. 1950. 7 C16F
- 2005 MADEC, P., PERENNEC, P., and TITARD, A. Expérimentation de variétés de pommes de terre dans la moitié nord de la France. France. Min. de l'Agr. B. Tech. d'Inform. 51:475-485. July/Aug. 1950. 14 F844B
- 2006 MANN, D. H. New Utah-developed lima bean perfected. Utah Farmer 70:192, 216. Oct. 5, 1950. 6 D45
- 2007 MANN, D. H. Utah tries carrot seed. Utah Farmer 70:152, 170. Sept. 23, 1950. 6 D45
- 2008 MARENKOV, M. N., and TEREKHOV, P. F. Varieties of Russian strong onions and their regional distribution in R. S. F. S. R. (In Russian.) Sad i Ogorod 1950(7):58-61. July 1950. 87 Sa1
- 2009 MARÍA, L. El chile; formación de la almáciga. Agr. y Ganad. 24(11, i.e. 12):22-25. Sept. 1, 1950. 8 Ag834
- 2010 MARTÍNEZ, F. A. La batata. Argentina. Min. de Agr. Almanaque 25:385-390. 1950. 9 Ag874
- 2011 MELLER, S. The preparation of nurseries for autumn vegetables. Hassadeh 30:547-549. July 1950. 26 H27  
In Hebrew.
- 2012 MINGUZZI, L. Early carrots. (In Italian.) Flora [Milano] 1:233-234. Dec. 1949. 80 F6634
- 2013 MIRZOIAN, A. I. From the practices of the leaders—potato-growers. (In Russian.) Sovet. Agron. 8(6):34-43. June 1950. 20 So84
- 2014 MONOT, G. Le plant de pomme de terre de la récolte 1949. Pomme Terre Franç. 13(132):13-16. Sept. 1950. 75.8 P77
- 2015 MONOT, G. La variété: Early Rose. Pomme de Terre Franç. 13(133):5. Oct. 1950. 75.8 P77
- 2016 MURASH, I. Selection of varieties for all year round vegetable culture. (In Russian.) Kolkhoz. Proizvodstvo 10(6):41. June 1950. 281.8 K83
- 2017 NAGELS, W. Asparagus growing in pictures. (In Dutch.) Groenten en Fruit 5:1012; 6:30, 46, 64, 85. June 29, July 13-Aug. 3, 1950. 80 G89
- 2018 NAKAGAWA, Y. Cucumber culture in Hawaii. Hawaii. U. Agr. Ext. C. 290, 10 p. Aug. 1950. 275.29 H312Ac
- 2019 NAVARRO, G. Observaciones sobre la producción de papas en el Uruguay. Asoc. de Ingen. Agron. Rev. 21(86/87):37-79. Ref. Sept./Dec. 1949. 290.9 As73  
Culture.
- 2020 NEUMANN, G. Zur ernte und lagerung erkrankter kartoffeln. Landwirtbl. Weser-Ems 97:768-769. Sept. 14, 1950. 18 L2345
- 2021 OLDHAM, C. H. Vegetable growers' guide. London? Lockwood, 1950. 472 p. (Agr. and Hort. Ser.) 91.13 OLI
- 2022 OLSSON, A. Effect of age and degree of maturity of seed of certain agricultural crops on the amount and the quality of the harvest. (In Swedish.) Lantbrukad. Tidskr. 89:241-261. 1950. 104 Sw3  
English summary.
- 2023 OLTHOFF, B. H. The danger of cross pollination of Brassicae. (In Dutch.) Netherlands. Landbouwlichtingsdienst. Maandbl. 7:229-231. June 1950. 12N383M
- 2024 ONISHCHENKO, A. I. On increasing the formation of seeds in potato crossings. (In Russian.) Selek. i Semen. 17(7):48-51. July 1950. 61.9 Se5
- 2025 ORSI, S. Witloof. (In Italian.) Humus 6(7):13-15. July 1950. 16 H88  
Culture.
- 2026 PATEL, G. A. Sweet potato. Poona Agr. Col. Mag. 41:120-123. Aug. 1950. 22 P79  
Culture.
- 2027 PAYETTE, A. Champignonnières naturelles. Agriculture [Montreal] 7:172-176. Summer 1950. 7 Ag82



2028 PÉREZ MORENO, J. M. El cultivo de la papa en la Provincia de Corrientes. Argentina. Min. de Agr. Almanaque 25:225-228. 1950. 9 Ag874

2029 PETO, H. B. Ship me another car of hybrid seed! Tomato, cucumber, watermelon. South. Seedsman 13(10):16,42,63. Oct.1950. 61.8 So8

2030 PLOPER, J. Una variedad interesante de tomate: la "Pearl Harbour." Charla Rur. 135:28-29. Dec.1949. 9 C37

2031 PRIĀMPOL'SKIĬ, P. K. Adaptation of sweet potato culture in the South of Ukrainian SSR. (In Russian.) Selekt. i Semen. 17(7):75-76. July 1950. 61.9 Se5

2032 PRINCE EDWARD ISLAND. DEPT. OF AGRICULTURE. POTATO PROMOTIONAL COMMITTEE. Prince Edward Island leading the world! in certified seed potatoes. Summerside, 1950. 28 p. 75 P934

2033 RIVERO, J. M. DEL. El empleo de las hormonas en el cultivo del tomate. Semana Vitivinica. 5(209):18-19. July 1, 1950. 95.8 Se5

2034 RUDY, C. How to pick tomatoes. Mkt. Growers J. 79(9):22-23. Sept.1950. 6 M34

2035 SANDFORD, B. The specialist salad grower. 6. Fruit, Flower & Veg. Trades' J. 98(9):22-23. Aug.26, 1950. 80 F946  
Culture and marketing.

2036 SCHULTZ, J. H. Introduction of potatoes in North America. N. Dak. Agr. Expt. Sta. Bimon. B. 13:8. Sept./Oct.1950. 100 N813B

2037 SCOTT, L. E. Factors associated with the cracking of sweet potatoes. Canning Trade 73(11):7-8. Oct.2, 1950. 286.83 T67  
Culture.

2038 SHEVCHUK, T. N. To restore and increase the local lentil varieties. (In Russian.) Selekt. i Semen. 17(8):51-55. Aug.1950. 61.9 Se5

2039 SHEWELL-COOPER, W. E. The A.B.C. of vegetable gardening. Rev. London, English U. Press, 1950. (ABC Gard. Ser.) 91.15 Sh52A

2040 SHEWELL-COOPER, W. E. Unusual vegetables; little-known varieties which are well worth cultivating. Field 196:515. Sept.23, 1950. 10 F45

2041 SIEBENGA, J. Selection of strain of seed potatoes as a basis for future seed production. (In Dutch.) Netherlands. Landvoorzichtingsdienst. Maandbl. 7:231-240. June 1950. 12 N383M

2042 SMITH, L. The better they are the less they pay. Grower [London] 34:560. Sept.16, 1950. 286.83 M34  
Cucumber culture.

2043 SMITH, L. Firm planting means a good start. Grower [London] 34:882-883. Oct.28, 1950. 268.83 M34  
Cabbages.

2044 TRIP, J. Varietal selection in export potatoes. (In Dutch.) Friesch Landtbl. 47:543. Sept.8, 1950. 12 F91

2045 TURLAPOVA, A. Summer planting of potatoes. (In Russian.) Kolkhoz. Proizvodstvo 10(6):27. June 1950. 281.8 K83

2046 VASIL'EV, V. L. Semenovodstvo ovoshchnykh kul'tur [Seed production of vegetables]. Leningrad? Leningradskoe Gazetno-Zhurnal'noe i Knizhnoe Izd-vo, 1950. 187 p. 91 V44

2047 VERHOEVEN, W. B. L. Ziekten, selectie en keuring van aardappelen [Diseases, selection and inspection of potatoes]. Ed. 3, rev. Wageningen, Veenman & Zonen, 1949? 128 p. 464.045 V58

2048 VIRNES, E. Results of experiments with different harvesting times for early potatoes. (In Swedish.) Forsk.- och Försöksresultat 2(4):21-23. Apr.30, 1950. 20 F77

2049 VOGT. Behandlung und pflege der kartoffelvermehrungsfelder. Hannoversche Land- u. Forstwirt. Ztg. 103:486,502. May 13-20, 1950. 18 H194

2050 VOGT. Ergebnisse der feldversuche zu kartoffeln. Hannoversche Land- u. Forstwirt. Ztg. 103:357,359,391,415-416. Apr.8-22, 1950. 18 H194

2051 VYTCHIKOV, A. I. Kak poluchit' vysokie urozhai kormovykh korneplodov [How to obtain high yields of forage root crops]. Moskva, 1950. 22 p. 60.4 V99

2052 WARNE, L. G. G. The personal factor in thinning. Fruit-Grower 2819:28. Jan.5, 1950. 80 F941  
Vegetables.

2053 WORK, P. Guy Stutzman of Indiana, Pa., is a first class cabbage man. Mkt. Growers J. 79(10):14,16-17. Oct.1950. 6 M34  
Cabbage culture.

2054 ZAITSEVA, N. D. Starting material for potato selection. (In Russian.) Selekt. i Semen. 17(7):31-37. July 1950. 61.9 Se5

## WEEDS AND POISONOUS PLANTS

2055 AHMAD, G. Some studies on the weedcides in the Punjab. (Abs.) Co-op. & Mktg. Rev. 4:243-245. July 1950. 280.28 C78243

2056 ARCENEUX, G., and HEBERT, L. P. Pre-emergence control of Johnson grass seedlings with 2,4-D. Sugar B. 29:5,11-12. Oct.1, 1950. 65.9 Am32

2057 ARNABOLDI, R. Las hormonas sintéticas en la destrucción de las malezas. Charla Rur. 134:34-35, 44. Nov.1949. 9 C37

2058 BARRONS, K. C. The relative toxicity of certain phenolic derivatives to the roots of major crop and weed plants. Mich. U. Microfilm Abs. 10(3):117-118. 1950. 241.8 M58

2059 BEALE, F. A. Control of weeds in cane fields. (In Portuguese.) Fazenda 45(9):42-43. Sept.1950. 6 H11P

2060 BENNETT, R. R., and HAWKS, S. N. Weed control in tobacco plant beds. South. Planter 111(10):8-9. Oct.1950. 6 So89

2061 BERENDES, P. Über die bekämpfung von unkrautern in den feldbeständen. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1204. Aug.31, 1950. 18 L2346

2062 BLACKMAN, G. E. The control of weeds in grassland with selective herbicides. Internatl. Grassland Cong. Rpt. 5:218-223. 1949. 60.19 In85R  
Includes discussion.

2063 BLACKMAN, G. E. The principles of selective toxicity and the action of selective herbicides. Sci. Prog. [London] 38:637-651. Ref. Oct.1950. 472 Sci22

2064 BORRI, M. Herbicides for the cane fields. Brit. West Indies Sugar Assoc. Proc. Mtg. Sugar Technol. 1949:103-108. 65.9 B775  
Includes discussion.

2065 BOSTWICK, R. D. Quick and economical clearing of timber and shrub brush is simple. Sowest. Crop & Stock 4(9):28-29. Sept.1950. 6 So8942

2066 BOTTING, H. L. Control of weeds. Lincoln Col. Rur. Educ. B. 5:92-96. July 1950. 109 C162

2067 BROWN, C. Control de malezas con 2,4-D. Campestino [Santiago] 82(8):45,47,49. Aug.1950. 9.3 So12

2068 CARLYLE, R. E. Use of chemicals in weed control and harvest drying of soybeans. Soybean Digest 10(11):38-39. Sept.1950. 60.38 So9

2069 CLINCH, F. A. Most grasses are considered assets. Quack grass [Agropyron repens], however, one of worst garden pests. Farm & Gard. [Watertown, N. Y.] 1950:4. July 15, 1950. 6 F234

2070 DAME. Das franzosenkraut und seine bekämpfung. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1206. Aug.31, 1950. 18 L2346  
Galinsoga parviflora.

2071 DANCATER, E. A. Weed control on the railways. I-II. Chem. Age. [London] 63:462-464,500-503. Sept.30-Oct.7, 1950. 382 C427  
Chemical control.

2072 DENNISON, R. A. Chemical aid in weed control. Fla. Grower 58(11):6,17. Nov.1950. 80 F6622

2073 DINGWALL, A. R. Variegated thistle [Silybum marianum] and its control. New Zeal. J. Agr. 81:141-142. Aug.1950. 23 N48J

2074 DURRELL, L. W., JENSEN, R., and KLINGER, B. Poisonous and injurious plants in Colorado. Colo. Agr. Col. Ext. B. 412 A,80 p. May 1950. 275.29 C71E  
A revision of Colorado Agricultural Experiment Station Bulletin 455.

Livestock poisoning.

2075 ESTERBROOK, B. Chemical control of Lantana. Queensland Agr. J. 71:26-27. July 1950. 23 Q33

2076 FIRSOV, P. P. Control of weeds in berry bushes. (In Russian.) Sad i Ogorod 1950(7):76-77. July 1950. 87 Sa1



- 2077 FROMMING, E. Gibt es unkraut? Nat. u. Nahr. 4(13/14):13-14. July 1950. 80 N218
- 2078 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Stinging nettles [Urtica]. Gt. Brit. Min. Agr. & Fisheries. Adv. L. 47,4 p. Sept.1950. 10 G79La
- 2079 GREEN, K. R. 2,4,5-T hormone-type weedicide to control blackberry and other woody plants. Agr. Gaz. N. S. Wales 61:341-344. July 1, 1950. 23 N472
- 2080 HAARER, A. E. A new and dangerous weed. Young Farmer 18:232. Sept./Oct.1950. 10 Y8  
Oxalis cernua.
- 2081 HALLEMANS, A. À propos de l'usage d'herbicides sélectifs dans les plantations fruitières. Cour. Hort. 12:464. Aug.1950. 80 C834
- 2082 HAREUBENI, A. Plants poisonous to sheep and goats in Israel. (In Hebrew.) Refuah Vet. 7:12-13. Apr.1950. 41.8 R25  
English summary, p. 35.
- 2083 HEAGY, A. B. Report on 2, 4-D herbicides. Assoc. Off. Agr. Chem. J. 33:764-769. Aug.15, 1950. 381 As7
- 2084 HOLMES, E. Pre-emergence weed killer possibilities. Farming [Norwich] 4:302-304. Oct.1950. 10 F2236
- 2085 HYDE, E. O. C. Weed seeds in agricultural seed. New Zeal. Dept. Agr. B. 316,48 p. 1950. 23 N48Bu
- 2086 JARVIS, C. S. Something about weed-killers. My Gard. 41:265-269. Sept.1950. 80 M995
- 2087 KIANG, C. Factors effecting the action of 2, 4-dichlorophenoxyacetic acid. Mich. U. Microfilm Abs. 10(3):121-123. 1950. 241.8 M58
- 2088 KOLTERMANN. Unkrautbekämpfung mit U 46. in Südhannover. Hannoversche Land- u. Forstwirt. Ztg. 103:487. May 13, 1950. 18 H194
- 2089 KOTT, S. A. In regard to measures for control of thistle and European bindweed [Convolvulus arvensis]. (In Russian.) Vsesoiūzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(8):33-38. Ref. 1950. 20 Ak1
- 2090 LINSE, H. Unkrautbekämpfung mit "Dicopur". Landwirtschaft 1950:231-232. Aug.1950. 19 L235
- 2091 MALSS, W. Unkrautbekämpfung im pflanzgarten. Allg. Forstz. 5:399-340. Sept.20, 1950. 99.8 AL52
- 2092 NESTERENKO, I. S. Control of Cirsium arvense by the method of exhaustion. (In Russian.) Sovet. Agron. 8(7):65-72. July 1950. 20 So84  
Chiefly on tillage.
- 2093 NYHOLM, I. Use of flame throwers and highly refined petroleum naphthas for weed control in tree nurseries. (In Danish.) Gart.-Tid. 66:328-331. Aug.9, 1950. 80 G192
- 2094 PALMER, E. L. Poisonous flowering plants. Nature Mag. 43:473-481. Nov.1950. 409.6 N214
- 2095 PHILLIPS, R. M. Chemicals as weed killers. Sugar News 26:423. Aug.1950. 65.8 Su393  
Sugarcane.
- 2096 PISTOR, W. J. Toxicity of pigweed [Axyris amaranthoides]. Prog. Agr. Ariz. 2(3):12. Oct./Dec. 1950. 6 P9452  
Toxicity to cattle.
- 2097 RYDER, H. The wild oats problem at Borchsminde. (In Danish.) Tidsskr. f. Landøkon. 1950:419-426. Aug.1950. 11 T43
- 2098 SLAGLE, A. B. Mesquite [Prosopis] control. S. West. Crop & Stock 4(10):9. Oct.1950. 6 So8942
- 2099 SPANN, J. Borstgrasverteilung auf alpen. Auf der Alpe 1950:65-66. Sept.1950. 18 Au3  
Nardus stricta.
- 2100 STAMPER, E. R., and CHILTON, S. J. P. Johnson grass control. Sugar B. 29:4,12. Oct.1, 1950. 65.9 Am32
- 2101 SWEET, R. D., and others. The response of several vegetables to stem-sprays with several herbicides. Noeast. States Weed Control Conf. Proc. 4:148-154. 1950. 79.9 N814  
S. L. Dallyn, C. W. Terry, and G. M. Taylor, joint authors.
- 2102 THOMSON, J. R. Farming by fire. World Crops 2:396-397. Sept.1950. 281.8 W892  
Weed control in central Sudan.
- 2103 TRAVERS, S. J. Weed control by good husbandry. Gt. Brit. Min. Agr. Agriculture 57:264-270. Sept.1950. 10 G79J
- 2104 TREVETT, M. F. A guide for the use of chemical weed killers. Maine. Agr. Expt. Sta. Mimeog. Rpt. 6,12 p. Jan.1950. 100 M28M
- 2105 VÉLEZ, I. Barbados, an agricultural tropical island without weeds. Sci. Mon. 71:276-277. Oct.1950. 470 Sci23  
Weed control in sugarcane plantings.
- 2106 WELCH, H. Many plants are poisonous [to livestock] but only in large doses. Mont. Farmer-Stockman 38:30-31. Sept.1, 1950. 6 M764
- 2107 WILLIS, S. J. The control of hoary pepperwort [Marsilea] on light soils. Gt. Brit. Min. Agr. Agriculture 57:270-273. Sept.1950. 10 G79J
- 2108 WILSON, F. The biological control of weeds. New Biol. 8:51-74. Apr.1950. 442.8 J63  
Use of insects.
- 2109 ZANINI, E., and BALLATORE, G. P. Results of use of selective herbicides in Sicilian grain cultivation. (In Italian.) Humus 6(7):9-12. Ref. July 1950. 16 H88

#### MISCELLANEOUS ECONOMIC PLANTS (Drug, Dye, Rubber, Etc.)

- 2110 AMIR. Cultivation of industrial plants. Israel Export J. 2(8):3,10. Aug.1950. 286.8 Is7
- 2111 ANISIMOV, N. I. Vysokie urozhai kok-sagzya; opyt raboty gerofa sotsialisticheskogo truda A. A. Shaplyko [High yields of kok-saghyz; practices of the hero of Socialist Labor, A. A. Shaplyko]. Moskva, Gos. Izd-vo Sel'khoz Lit-ry, 1950. 66 p. 78 An5
- 2112 ARISTEGUETA, L. Botánica de Semana Santa. Agr. Venezol. 15(142):46-47. May 1950. 9.95 Ag8  
Drug plants.
- 2113 ASHPANT, H. Plantation research in Indonesia. India-Rubber J. 119(15):9-10; (16):15-16. Oct.7-14, 1950. 305.8 In21  
Hevea propagation.
- 2114 BARDEL, J. Notice sur la culture des plantes à fleurs mellifères. Gaz. Apic. 51:181-184. Aug.1950. 424.8 G25
- 2115 BEILMANN, A. P. Mountain mint- for oil and honey. Amer. Bee J. 90:492-493. Nov.1950. 424.8 Am3
- 2116 BRAVO, A. F. El cultivo de la mandioca. Argentina. Dir. de Inform. P. Misc. 330,12 p. 1950. 9 P943
- 2117 BRIGHAM, D. Through the years with herbs. Plants & Gard. 6:132-134. Autumn 1950. 450 P694
- 2118 BROUARD, J. Tea planting in Nyasaland. Rev. Agr. de l'Ile Maurice 29:161-165. July/Aug.1950. 24 M44  
Culture.
- 2119 BUKSHTYNOV, A. D. Soviet gutta-bearing plants—for the shelterbelts. (In Russian.) Les i Step' 2 (4):32-41. Apr.1950. 99.8 L565  
Euonymus chiefly.
- 2120 BURGESS, A. H. Hop manuring and cultivation experiments. Wye Col. Dept. Hop Res. Rpt. 1949: 18-33. May 1950. 70.9 W972
- 2121 CAMERON, H. L. The use of aerial photography in seaweed surveys. Photogram. Engin. 16:493-501. Sept.1950. 325.28 P56
- 2122 CANCELLI, S. La rhubarbe dans la montagne. (In Italian.) Italia Forest e Mont. 5:147-148. July/Aug. 1950. 99.8 It12  
French summary.
- 2123 CASSIDY, M. A. Coffee growing in S. Rhodesia. Rhodesia Agr. J. 47:176-180. May/June 1950. 24 R34
- 2124 CENTRO NACIONAL DE INVESTIGACIONES DE CAFÉ, CHINCHINA, COLOMBIA. Centro Nacional de Investigaciones de Café. Chinchina, Federación Nacional de Cafeteros, 1950. 28 p. 68.29 C33C
- 2125 CEYLON RUBBER RESEARCH BOARD. Report of the work in 1949. Colombo, 1950. 41 p. 78.9 C33R
- 2126 COLÓN, S. Una cosecha pobre. Rev. del Café 6(3):13. Aug./Sept.1950. 8 R3295  
Puerto Rico.
- 2127 CURTIS, C. H. Between the parsley and the rue. IV. Thyme. Young Farmer 18:243-244. Sept./Oct. 1950. 10 Y8
- 2128 DEICHER, P. G. A California herb garden. Plants & Gard. 6:150-154. Autumn 1950. 450 P694
- 2129 DOUMONT, L. L'épine-vinette (Berberis vulgaris, L.). Cour. Hort. 12:455-456. Aug.1950. 80 C834



- 2130 EVERIST, S. L. Mulga (*Acacia aneura* F. Muell.) in Queensland. Queensland J. Agr. Sci. 6:87-139. June 1949. 23 Q37
- 2131 EXPERIMENTAL research on yield and quality of coriander seed. (In Italian.) Riv. Ital. Essenze, Profumi, Piante Off., Olii Veg., Saponi 32:371-376. Aug. 15, 1950. 308.8 R52
- 2132 EYNDEN, G. P. A. VAN DEN. The giant honey clover. (In Dutch.) Nieuwe Veldbode 16:698-699. July 27, 1950. 12 V542N
- 2133 FARES TAIE, F. A. Estudio de hojas y raíces de *Atropa belladonna* cultivada en el país y existentes en el comercio. La Plata. U. Nac. Facul. de Cien. Quím. Rev. (1947) 22:183-191. Ref. 1949. 385 L31  
Summary of a thesis.  
Includes culture.
- 2134 FLACCOMIO, E. The land of the Indianfig. (In Italian.) Riv. Ital. Essenze, Profumi, Piante Off., Olii Veg., Saponi 32:368. Aug. 15, 1950. 308.8 R52  
*Opuntia ficus-indica* in Sicily.
- 2135 FLACCOMIO, E. Medicinal plants on the Sicilian latifundium. (In Italian.) Mezzogiorno Agr. 6 (37):3. Sept. 24/30, 1950. 16 M57
- 2136 FLÜCK, H. Unsere heilpflanzen; eine gemeinverständliche beschreibung mit angaben über wirkstoffe, wirkung, anwendung, einsammlung und anbau. Ed. 2, rev. and enl. Thun, Ott, 1950. 160 p. 459.6 F67
- 2137 FOX, H. M. Herb teas. Plants & Gard. 6:163-166. Autumn 1950. 450 P694
- 2138 GARRINGTON, E. Hopping. Countryman [Burford] 42:96-100. Autumn 1950. 281.28 C832
- 2139 GONZALEZ, E. Atenciones culturales del anís. Agronomía [Habana] (ser. 2) 10(8):4-5, 19. Aug. 1950. 8 C893
- 2140 GROVES, S. English saffron gardens. Country Life [London] 108:1000-1001. Sept. 29, 1950. 80 C83  
*Crocus sativus*.
- 2141 HARDY, S. K. Harvesting and processing culinary herbs. Plants & Gard. 6:149. Autumn 1950. 450 P694
- 2142 HUNTLEY, E. Seven herbs in a kitchen window. Plants & Gard. 6:140-141. Autumn 1950. 450 P694
- 2143 INDIAN TEA ASSOCIATION. SCIENTIFIC DEPT. TOCKLAI EXPERIMENTAL STATION. Annual report 1948. Cinnamara, 1950. 31 p. 68.19 T56
- 2144 INSTITUT DES RECHERCHES SUR LE CAOUTCHOUC EN INDOCHINE. Rapport annuel, 1949. Saigon, 1950. 128 p. 78.9 In7R
- 2145 INTER-AMERICAN TECHNICAL CACAO COMMITTEE. Proceedings of the second conference held at Turrialba, Costa Rica, March 8-11, 1949. Turrialba, Costa Rica, 1949. 57 p. 68.39 In8
- 2146 IURKEVICH, I. D. How to layer shoots of *Euonymus*. (In Russian.) Lesn. Khoz. 3(2):84-85. Feb. 1950. 99.8 L562
- 2147 IURKEVICH, I. D. Regional distribution of *Euonymus europaeus* crops. (In Russian.) Lesn. Khoz. 3(3):36-39. Mar. 1950. 99.8 L562
- 2148 KEYWORTH, W. G. Hop propagation in Great Britain. Wallerstein Lab. Commun. 13:253-266. Ref. Sept. 1950. 390.9 W15
- 2149 LAPI, E. Honey plants. (In Italian.) Terra [Firenze] 61(34/35):3. Aug. 20/27, 1950. 16 T274
- 2150 LEECHMAN, D. Edible wild plants. Forests & Outdoors 46(10):24-25. (Concl.) Oct. 1950. 99.8 C16
- 2151 LEES, C. B. Savory herbs, how to grow them. Plants & Gard. 6:175-178. Autumn 1950. 450 P694
- 2152 MAKAROVA, A. I. Improvement of feed supply base in apiculture under conditions of grass-field crop rotations. (In Russian.) Pchelovodstvo 27:197-202. Apr. 1950. 424.8 P295  
Chiefly on culture of honey-bearing plants.
- 2153 MANTELL, C. L. The natural hard resins—their botany, sources and utilization. Econ. Bot. 4:203-242. July/Sept. 1950. 450 Ec7
- 2154 MEDVEDEV, P. F. Results of clonal selection of *Chufa* flatsedge. (In Russian.) Selek. i Semen. 17(7):78-79. July 1950. 61.9 Se5  
*Cyperus esculentus*.
- 2155 MEJIA FRANCO, R. Café colombiano. Manabí, Ecuador. Consorcio de Cent. Agr. B. 12(62):14-20. Apr./June 1950. 9.5 M31  
Culture.
- 2156 MENDES, C. T. Shading of coffee trees. (In Portuguese.) Rev. de Agr. [Piracicaba] 25:213-223. July/Aug. 1950. 9.2 R324
- 2157 MENDES, C. T. Varieties of coffee trees. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 25:188-193. (Concl.) Mar. 1950. 68.29 Sa63
- 2158 MOLFINO, J. F. Cortezas medicinales. Chacra 20(238):74-75. Sept. 1950. 9 C34
- 2159 MOSIG, A. Die topinambur als arznei- und nutzpflanze. Apoth.-Ztg. 62:11-13. Ref. Jan. 1950. 396.8 Ap4
- 2160 NYE, E. E. The place of botany in the pharmaceutical curriculum. Austral. & New Zeal. Assoc. Advn. Sci. Rpt. 27:151-153. 1949. 514 Au73
- 2161 ORLOWSKI, P. Über koka und kokain. Apoth.-Ztg. 62:33-35. Feb. 1950. 396.8 Ap4
- 2162 PETERS, K. Prinzipien des arzneipflanzenanbaues. Nat. U. Nahr. Ausg. B 4:73-74. (Concl.) July 1950. 80 N218B
- 2163 POLESHCHUK, P. M. Garlic [varieties] of Donbas. (In Russian.) Sad i Ogorod 1950(7):61-64. July 1950. 87 Sa1
- 2164 QAZILBASH, N. A. Commercial utilization of Indian Santonica [*Artemisia*] for manufacturing santonin. Indian J. Pharm. 12:175-179. June 1950. 396.8 In23
- 2165 ROHDE, E. S. Herbs for color. Plants & Gard. 6:159-160. Autumn 1950. 450 P694
- 2166 RUEMELE, T. Hamamelis (witch hazel). Perfumery & Essential Oil Rec. 41:323-325, 337. Sept. 1950. 308.8 P41
- 2167 SALOM CALAFELL, J. Algo sobre el algarrobo. Cóm. Ofic. Sind. Agr. de Barcelona. B. 5:218-220. Aug. 1950. 15 C14
- 2168 SANTOS BILONI, J. La "papilla" silvestre puede ser buen sustituto de la espinaca. Mundo Agr. 2 (15):42. Aug. 1950. 9 M92  
Culture of *Boussingaultia gracilis*.
- 2169 SCHOMER, M. Das weidenröschen (*Epilobium*). Luxemburg. Bienen Ztg. 65:127-128. Aug. 1950. 424.8 L97
- 2170 SHAPIRA, S. On "*Gomphocarpus fruticosus*." Hassadeh 30:596. July 1950. 26 H27  
In Hebrew.
- 2171 SMITH, T. H. Lavender at harvest time. Perfumery & Essential Oil Rec. 41:363-364, 388. Oct. 1950. 308.8 P41
- 2172 SOROA PINEDA, J. M. Cultivo e industria de la alcaparra. Agricultura [Madrid] 19:320-323. July 1950. 15 Ag84
- 2173 SOUZA, W. W. C. DE. Shading coffee in the State of Rio. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 25:343-346. May 1950. 68.29 Sa63
- 2174 STEARNS, M. The future of herb-growing as a herbalist sees it. Plants & Gard. 6:181. Autumn 1950. 450 P694
- 2175 STOFFELS, E. H. J. Corrélations et efficacités d'un groupe de *Pyrethrum cinerariaefolium* Preg. Gembloux. Inst. Agron. de l'Etat B. 17:174-180. 1948/1949. 105.1 G285  
English summary.
- 2176 SWINNERTON, A. A. Peat moss industry in Canada. Canad. Chem. & Process Indus. 34:915-919, 928. Nov. 1950. 381 C16
- 2177 TESTA, J. Two depositions on the restoration of coffee plantings in an old zone. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 25:181-186. Mar. 1950. 68.29 Sa63  
Brazil.
- 2178 ULTÉE, A. J. Fifty years of [coffee] robusta culture. (In Dutch.) Bergcultures 19:314. Sept. 1, 1950. 22.5 B45
- 2179 VAN BRUNT, E. R. The herb garden. Plants & Gard. 6:135-139. Autumn 1950. 450 P694
- 2180 VASSILIADES, C. H. Acusan señalados adelantos nuestros cultivos de té. Mundo Agr. 2(15):105. Aug. 1950. 9 M92  
Argentina.
- 2181 VÖTH, W. Blumenbindekunst als sonderschau in Stuttgart. Berufsgärtner 3(9):1-2. Sept. 1950. 80 B463
- 2182 WATROUS, R. C., comp. Cacao; a bibliography on the plant and its culture and primary processing of the bean. U. S. D. A. Libr., Libr. List 53, 49 p. Oct. 1950. 1.916 L612



- 2183 WEIBEL, R. O., and others. Illinois and Minnesota take a look at sunflowers. *Crops & Soils* 3:18-19. Oct. 1950. 6 W55
- R. G. Robinson, O. C. Soine, and R. O. Bridgford, joint authors.  
Varieties and yield.
- 2184 WENNIGER, W. F. M. DE B. Variability of individual production of Hevea clones. (In Dutch.) *Arch. v. de Rubbercult.* 27:153-176. Ref. June 1950. 78.8 Ar2  
English summary.
- 2185 WHITMAN, H. M., and LOGEE, J. L. Herbs for fragrance. *Plants & Gard.* 6:155-158. Autumn 1950. 450 P694
- 2186 WINTERS, H. F. Cinchona propagation. P. R. Fed. Expt. Sta. (Mayaguez) B. 47,26 p. Ref. Aug. 1950. 1 Ex65
- 2187 WRIGHT, J. Herbs in the desert. *Plants & Gard.* 6:161-162. Autumn 1950. 450 P694

## SOILS AND FERTILIZERS

### SOIL SCIENCE

- 2188 AALTONEN, V. T. Forest soil research in Finland. *Unasylva* 4:116-121. July/Sept. 1950. 99.8 Un1
- 2189 DEMORTIER, G., and others. Les principaux caractères pédologiques des sols de la région de Gembloux et leur influence sur le rendement des cultures en 1949. *Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech.* 1950(4):155-174. Aug. 1950. 330.9 In7C
- G. Droeven, R. Philippot, and N. Verbeke, joint authors.
- 2190 EDELMAN, C. H. Soils of the Netherlands. Amsterdam, No.-Holland Pub., 1950. 177 p. 56.24 Ed2
- 2191 FITZGERALD, O. A. Soils expert in every county [Idaho]. *Idaho Farmer* 68:679,689. Sept. 21, 1950. 6 G282
- 2192 GACHON, L. Un siècle d'histoire des sols de France: dégradation et réfection. *Études Rhodaniennes* 25:81-89. 1950. 473 Et8
- 2193 GRANVIGNE, C., and OUDIN, A. Notes sur la pédologie du Jura. *France. Inst. Natl. de la Rech. Agron. Ann. Sér. A: Ann. Agron.* 1:419-430. July/Aug. 1950. 14 F8499
- 2194 HOCHHOLZER, H. Bodenkunde für gärtner, städler, landwirte und forstleute. *Flora Bücheri* 4,152 p. 1949. 80 F6692
- 2195 JACKS, G. V. *Pedology.* Sci. Prog. [London] 38:725-729. Oct. 1950. 472 Sci22
- 2196 KUČERA, P. Making use of the pedological research of soils of the ground on the cadastral territory of the market-town of Dubec in geonomy and regional plan. (In Czech.) *Ceskoslov. Akad. Zeměděl. Sborn.* 22: 532-540. 1950. 19.5 C332C  
English summary.
- 2197 MISSOURI CONSERVATION COMMISSION. *Wildlife and the soil.* New ed. Mo. Conserv. Comm. C. 134,44 p. Aug. 1949. 279.9 M69
- 2198 MÜCKENHAUSEN, E. Bodenkundliche arbeiten und forschungen seit 1945 und die heutigen bodenkundlichen forschungseinrichtungen in Deutschland. *Ber. z. Deut. Landesk.* 8:234-239. July 1950. 18 B454
- 2199 OGG, SIR W. The value of soil research. *Agr. Inst. Rev.* 5(5):59-60. Sept. 1950. 7 Ag8
- 2200 EVANS, D. D., and KIRKHAM, D. Measurement of the air permeability of soil in situ. *Soil Sci. Soc. Amer. Proc.* 1949(14):65-73. 1950. 56.9 So3
- 2201 FLETCHER, P. W., and LIVINGSTON, R. B. Structure improvement following legume growth on unfertilized subsoil. *Soil Sci. Soc. Amer. Proc.* 1949(14): 347-350. 1950. 56.9 So3  
For forest site.
- 2202 GURLEV, A. S., and PLATONOVA, E. M. Role of perennial leguminous plants and grasses in restoring soil structure in hot-beds. (In Russian.) *Sad i Ogorod* 1950(7):65-68. July 1950. 87 Sa1
- 2206 HAISE, H. R., and KELLEY, O. J. Causes of diurnal fluctuations of tensiometers. *Soil Sci.* 70:301-313. Ref. Oct. 1950. 56.8 So3
- 2207 HIDE, J. C. Evaporation control. *Land* 9: 412-413. Autumn 1950. 279.8 L22  
From soils.
- 2208 HOOVER, M. D. Hydrologic characteristics of South Carolina Piedmont forest soils. *Soil Sci. Soc. Amer. Proc.* 1949(14):353-358. 1950. 56.9 So3
- 2209 HUBBELL, D. S., and GARDNER, J. L. March of water-stable aggregation with relation to initial soil particle size. *Soil Sci. Soc. Amer. Proc.* 1949(14):367-370. Ref. 1950. 56.9 So3
- 2210 JAKOBSEN, J. M., and HØJENDAHL, K. Investigation of methods and apparatus suitable for current control of the moisture in soil covered by crop. *Denmark Vet.- og Landbohøjsk. Årsskr.* 1950:114-123. 104 D41A
- 2211 JAKOBSEN, J. M., LYSGAARD, C. P., and HØJENDAHL, K. Investigation with tensiometers, holes for determining ground water table, and soil samples in the experimental field. *Denmark Vet.- og Landbohøjsk. Årsskr.* 1950:124-140. 104 D41A
- 2212 KIRKHAM, D., and TAYLOR, G. S. Some tests of a four-electrode probe for soil moisture measurement. *Soil Sci. Soc. Amer. Proc.* 1949(14):42-46. 1950. 56.9 So3
- 2213 KLUTE, A., and JACOB, W. C. Physical properties of Sassafras silt loam as affected by long-time organic matter additions. *Soil Sci. Soc. Amer. Proc.* 1949(14):24-28. 1950. 56.9 So3
- 2214 LAFOND, A. Oxidation-reduction potential as a characteristic of forest humus types. *Soil Sci. Soc. Amer. Proc.* 1949(14):337-340. 1950. 56.9 So3
- 2215 LAWS, W. D., and EVANS, D. D. The effects of long-time cultivation on some physical and chemical properties of two Rendzina soils. *Soil Sci. Soc. Amer. Proc.* 1949(14):15-19. Ref. 1950. 56.9 So3
- 2216 LEWIS, W. A. Effect of temperature on the consolidation of soils. *Nature [London]* 166:614-615. Oct. 7, 1950. 472 N21
- 2217 LIVEN, J. Les propriétés physiques et chimiques des limons loessiques des environs de Landen (Hesbaye). *Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech.* 1950(4):125-154. Aug. 1950. 330.9 In7C
- 2218 MARTINSON, D. C., and OLMSTEAD, L. B. Crushing strength of aggregated soil materials. *Soil Sci. Soc. Amer. Proc.* 1949(14):34-38. 1950. 56.9 So3
- 2219 MAZURAK, A. P. Aggregation of inorganic particles in Hesperia sandy loam. *Soil Sci. Soc. Amer. Proc.* 1949(14):28-34. Ref. 1950. 56.9 So3
- 2220 MEEWIS, A. Studies of the structural characteristics in a loess-loam profile by means of thin layers. (In Flemish.) *Agricultura [Louvain]* 48:89-95. Aug. 1950. 13 R32  
French summary.
- 2221 MOLCHANOV, A. A. Freezing and thawing of [forest] soils. (In Russian.) *Lesn. Khoz.* 3:27-31. Jan. 1950. 99.8 L562
- 2222 NEHER, D. D. The effect of cropping systems and soil treatment on the water-stable aggregates in a claypan soil in southeastern Kansas. *Agron. J.* 42:475-477. Ref. Oct. 1950. 4 Am34P
- 2223 PEELE, T. C. Relation of percolation rates through saturated soil cores to volume of pores drained in 15 and 30 minutes under 60 centimeters tension. *Soil Sci. Soc. Amer. Proc.* 1949(14):359-361. 1950. 56.9 So3
- 2224 PILLSBURY, A. F. Effects of particle size and temperature on the permeability of sand to water. *Soil Sci.* 70:299-303. Ref. Oct. 1950. 56.8 So3
- 2225 RANEY, W. A. Field measurement of oxygen diffusion through soil. *Soil Sci. Soc. Amer. Proc.* 1949(14):61-65. 1950. 56.9 So3



- 2226 REID, R. R., LEYENDECKER, C. E., and HUBBELL, D. S. Water-stable aggregation in artificially saline and saline-alkali soils. *Soil Sci. Soc. Amer. Proc.* 1949(14):164-168. 1950. 56.9 So3
- 2227 REMESLO, V. N., and GUPALO, M. G. Effect of legume-grass mixture in the grass-field crop rotation on formation of soil structure. (In Russian.) *Selek. i Semen.* 17(8):39-43. Aug. 1950. 61.9 Se5
- 2228 RICHARDS, L. A. Laws of soil moisture. *Amer. Geophys. Union. Trans.* 31:750-756. Ref. Oct. 1950. 330.9 Am3  
Includes discussion.
- 2229 RICHARDS, L. A., CAMPBELL, R. B., and HEALTON, L. H. Some freezing point depression measurements on cores of soil in which cotton and sunflower plants were wilted. *Soil Sci. Soc. Amer. Proc.* 1949(14):47-50. Ref. 1950. 56.9 So3
- 2230 RUSSELL, M. B. A simplified air-pycnometer for field use. *Soil Sci. Soc. Amer. Proc.* 1949(14):73-76. 1950. 56.9 So3
- 2231 RUSSELL, M. B. Soil structure and its importance for permanent and temporary pastures. *Internat. Grassland Cong. Rpt.* 5:40-46. 1949. 60.19 In85R  
Includes discussion.
- 2232 SINGH, H. "Roundness" and "sphericity" as used in analysis of sand particles. *India. Cent. Bd. Irrig. J.* 7:163-173. Mar. 1950. 55.9 In222C
- 2233 SMOLIK, L. The influence of the contour line making the land surface upon the water content of the soil. (In Czech.) *Českoslov. Akad. Zeměděl. Sborn.* 22:540-544. 1950. 19.5 C332C  
English summary.
- 2234 STRAHLER, A. N. Equilibrium theory of erosional slopes approached by frequency distribution analysis. II. *Amer. J. Sci.* 248:800-814. Ref. Nov. 1950. 470 Am34
- 2235 TAYLOR, S. A. Oxygen diffusion in porous media as a measure of soil aeration. *Soil Sci. Soc. Amer. Proc.* 1949(14):55-61. 1950. 56.9 So3
- 2236 THIRION, C. Étude sur le pouvoir filtrant des sols par la méthode A. Muntz améliorée, dans le périmètre de l'avant-projet du canal d'irrigation de Trèbes à Lézignan-Corbières (Aude). *Génie Civil* 127:367-370. Oct. 1, 1950. 290.8 G29
- 2237 THOMSON, G. W., and MCCOMB, A. L. Soil pore space and aeration in several forest communities in central Iowa. *J. Forestry* 48:401-407. Ref. Sept. 1950. 99.8 F768
- 2238 THORNE, M. D. Moisture characteristics of some Hawaiian soils. *Soil Sci. Soc. Amer. Proc.* 1949(14):38-41. 1950. 56.9 So3
- 2239 UHLAND, R. E. Physical properties of soils as modified by crops and management. *Soil Sci. Soc. Amer. Proc.* 1949(14):361-366. Ref. 1950. 56.9 So3
- 2240 VAN BAVEL, C. H. M. Mean weight-diameter of soil aggregates as a statistical index of aggregation. *Soil Sci. Soc. Amer. Proc.* 1949(14):20-23. 1950. 56.9 So3
- 2241 VAN BAVEL, C. H. M. Use of volatile silicoes to increase water-stability of soil. *Soil Sci.* 70:291-297. Oct. 1950. 56.8 So3
- 2242 VAN DOREN, C. A., and KLINGEBIEL, A. A. Permeability studies on some Illinois soils. *Soil Sci. Soc. Amer. Proc.* 1949(14):51-55. 1950. 56.9 So3
- 2243 VERSHININ, P. V., and POIAISOV, N. P. Methods for soil air analysis. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(6):34-38. 1950. 20 Ak1
- 2244 WATSON, J. R., JR., and JEFFRIES, C. D. Quartz as an indicator mineral in soil compaction. *Soil Sci. Soc. Amer. Proc.* 1949(14):388-391. Ref. 1950. 56.9 So3
- 2245 WILDE, S. A. A simple soil air permeameter. *Agron. J.* 42:522. Oct. 1950. 4 Am34P
- 2246 YAMAYA, K. On the seasonal variations of water content of soil in "Hiba" forest. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:118. Apr. 25, 1950. 99.8 N62
- Soil Chemistry and Mineralogy
- 2247 ANDERSON, G. R., and BAKER, G. O. Some effects of 2,4-D in representative Idaho soils. *Agron. J.* 42:456-458. Ref. Sept. 1950. 4 Am34P
- 2248 ATKINSON, H. J., and RICE, H. M. Soil mineralogy. *Chem. Canada* 2:165-169. Oct. 1950. 381 C4236
- 2249 BEAVERS, A. H. The cataphoresis of the clay minerals and factors affecting their separation. *Mich. U. Microfilm Abs.* 10(3):236-237. 1950. 241.8 M58
- 2250 BLACK, I. A., and SMITH, E. The routine determination of exchangeable bases in soils by the Lundegardh flame spectrographic method. *J. Sci. Food & Agr.* 1:201-208. Ref. July 1950. 382 So12
- 2251 BOTTINI, E. The colloidism of the soil and its relationships to fertilizing; researches done on nitrogen fertilizers. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:767-788. 1950. 16 An76  
English summary.
- 2252 BROADBENT, F. E., and CHAPMAN, H. D. A lysimeter investigation of gains, losses, and balance of salts and plant nutrients in an irrigated soil. *Soil Sci. Soc. Amer. Proc.* 1949(14):261-269. 1950. 56.9 So3
- 2253 BROWN, D. A. Cation exchange between electrodyalized clay and soils as a measure of the suite of cations most available to plants. *Mich. U. Microfilm Abs.* 10(3):239-240. 1950. 241.8 M58
- 2254 BROWN, P. L., and OLSON, R. V. Some soil catena relationships in Saline County, Kansas. *Soil Sci. Soc. Amer. Proc.* 1949(14):296-299. 1950. 56.9 So3
- 2255 BURST, J. F., JR. The clay mineralogy of two typical Missouri fireclays. *Mich. U. Microfilm Abs.* 10(3):240-241. 1950. 241.8 M58
- 2256 CAMPANILE, S. Soluble potassium in soil water and estimation of fertilizer required. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:475-480. 1950. 16 An76  
English summary.
- 2257 COLEMAN, N. T., JACKSON, M. L., and MEHLICH, A. Mineral composition of the clay fraction: II. of several Coastal Plain, Piedmont, and Mountain soils of North Carolina. *Soil Sci. Soc. Amer. Proc.* 1949(14):81-85. Ref. 1950. 56.9 So3
- 2258 DAVIES, W. M. Soil sampling and chemical analysis. *Farming [Norwich]* 4:264-266. Sept. 1950. 10 F2236
- 2259 DEKEYSER, W. Le-Centre Roentgenographique. (In Flemish.) *Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech.* 1950(4):175-187. Aug. 1950. 330.9 In7C  
French summary.
- Soil analysis.
- 2260 EMBLETON, T. W., and BOYNTON, D. Some effects of spray residues on the pH and the basic cations of the soil in northeastern McIntosh apple orchards. *Soil Sci. Soc. Amer. Proc.* 1949(14):105-109. Ref. 1950. 56.9 So3
- 2261 ENSMINGER, L. E., and PEARSON, R. W. Soil nitrogen. In *Advances in agronomy*, v. 2, p. 81-111. Ref. New York, Acad. Press, 1950. 30 Ad9
- 2262 EVANS, C. E., and SIMON, R. H. Nonexchangeable potassium removal from soils by successive acid extractions as related to removal by greenhouse crops. *Soil Sci. Soc. Amer. Proc.* 1949(14):126-130. Ref. 1950. 56.9 So3
- 2263 FRIED, M., and MACKENZIE, A. J. Rock phosphate studies with neutron irradiated rock phosphate. *Soil Sci. Soc. Amer. Proc.* 1949(14):226-231. Ref. 1950. 56.9 So3
- 2264 GATTORTA, G. Researches on the determination of available manganese in the soil. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:789-802. Ref. 1950. 16 An76  
English summary.
- 2265 GLOTOVA, T. V. Analysis of organic matter of forest and steppe soils in the Saratov-Astrakhan shelterbelt. (In Russian.) *Pochvovedenie* 1950:456-465. Aug. 1950. 57.8 P34
- 2266 GONZALEZ, A. E. Elementos menores del suelo laborable. *Agronomía [Habana]* (ser. 2) 10(8):25. Aug. 1950. 8 C893
- 2267 GOODWIN-WILSON, R. Lessons learned from soil testing. *Florists' Exch.* 115(19):13. Nov. 4, 1950. 80 F666
- 2268 GRAHAM, E. R. The plagioclase feldspars as an index to soil weathering. *Soil Sci. Soc. Amer. Proc.* 1949(14):300-302. 1950. 56.9 So3
- 2269 GRAHAM, E. R. Testing Missouri soils. *Mo. Agr. Expt. Sta. C.* 345, 23 p. Ref. Mar. 1950. 100 M693
- 2270 HASEMAN, J. F., BROWN, E. H., and WHITT, C. D. Some reactions of phosphate with clays and hydrous oxides of iron and aluminum. *Soil Sci.* 70:257-271. Ref. Oct. 1950. 56.8 So3



- 2271 HÉNIN, S., and BÉTRÉMIEUX, R. Étude expérimentale de l'évolution des matières organiques dans le sol. Paris. Acad. des Sci. Compt. Rend. 231:550-552. Sept.11,1950. 505 P21
- 2272 IARKOV, S. P., KULAKOV, E. V., and KAURICHEV, I. S. Formation of ferrous iron and peculiarities of the phosphate regime in turfy Podzolic soils. (In Russian.) Pochvovedenie 1950:466-475. Ref. Aug. 1950. 57.8 P34
- 2273 JACKSON, M. L., WHITTIG, L. D., and PENNINGTON, R. P. Segregation procedure for the mineralogical analysis of soils. Soil Sci. Soc. Amer. Proc. 1949 (14):77-81. 1950. 56.9 So3
- 2274 JEFFRIES, C. D. An improved procedure for the preparation and interpretation of X-ray analyses of soils by means of the Geiger counter X-ray spectrometer. Soil Sci. Soc. Amer. Proc. 1949(14):378-379. 1950. 56.9 So3
- 2275 JONES, U. S., and HOOVER, C. D. Lime requirements of several Red and Yellow soils as influenced by organic matter and mineral composition of clays. Soil Sci. Soc. Amer. Proc. 1949(14):96-100. Ref. 1950. 56.9 So3
- 2276 KALACIKOV, A. T. Influence of boron and manganese on the dynamics of nitrates and water soluble forms of phosphoric acid in a weak "podzol" soil. (In Italian.) Agr. Nuova 2:303-307. June 1950. 16 Ag8223
- 2277 LARSON, W. E., and ALLAWAY, W. H. Release of sodium from nonreplaceable to replaceable forms in some Iowa soils. Soil Sci. 70:249-256. Ref. Oct.1950. 56.8 So3
- 2278 LOW, P. F., and BLACK, C. A. Reactions of phosphate with kaolinite. Soil Sci. 70:273-290. Ref. Oct.1950. 56.8 So3
- 2279 LUNDBLAD, K. The marshland copper problem. (In Norwegian.) Norske Myrseiskap Meddel. 48:76-83. Aug.1950. 11 N813
- 2280 LYND, J. Q., TURK, L. M., and COOK, R. L. Application of soil tests, tissue tests, and foliar analysis to field experiments. Soil Sci. Soc. Amer. Proc. 1949(14):236-241. Ref. 1950. 56.9 So3
- 2281 MACINTIRE, W. H., JONES, L. S., and HARDIN, L. J. Fluorine losses in the calcination of analytical charges of fluoride-enriched soils. Assoc. Off. Agr. Chem. J. 33:653-663. Aug.15,1950. 381 As7
- 2282 MACINTIRE, W. H. Report on soils and liming materials. Assoc. Off. Agr. Chem. J. 33:652-653. Aug.15,1950. 381 As7
- 2283 MCLEAN, E. O. Reciprocal effects of magnesium and potassium as shown by their cationic activities in four clays. Soil Sci. Soc. Amer. Proc. 1949(14):89-93. 1950. 56.9 So3
- 2284 MALAVOLTA, E. Notes on the Mitscherlich method. (In Portuguese.) Solo 41:31-37. Oct.1949. 9.2 So4  
English summary.
- 2285 MALDONADO, A., and GUEVARA R., J. DE D. Determinación del boro en aguas y suelos del Perú. Soc. Quím. del Perú. B. 16:5-32. Mar.1950. Ref. 385 So15
- 2286 MANIL, G. Quelques résultats d'essais sur la transformation des phosphates dans le sol. Gembloux. Inst. Agron. de l'État B. 17:67-75. 1948/1949. 105.1 G285  
English summary.
- 2287 MARSHALL, C. E., and BARBER, S. A. The calcium-potassium relationships of clay minerals as revealed by activity measurements. Soil Sci. Soc. Amer. Proc. 1949(14):86-88. 1950. 56.9 So3
- 2288 MEHLICH, A. Report on exchangeable potassium of soils. Assoc. Off. Agr. Chem. J. 33:663-664. Aug.15,1950. 381 As7
- 2289 MOHR, W. O teor de cálcio e a acidez dos solos do Estado do Rio Grande do Sul [Calcium content and acidity of soils in the State of Rio Grande do Sul]. Rio Grande do Sul. Sec. de Estado dos Negócios da Agr. Indus. e Com. C. 73,40 p. 1949? 9.2 R473C
- 2290 MORAES, J. DE M. Neubauer method; examination of soil fertility on new bases. (In Portuguese.) Solo 41:49-50. Oct.1949. 9.2 So4
- 2291 MORTLAND, M. M., and GIESEKING, J. E. The influence of silicate ions on potassium fixation by clay minerals. (Abs.) Amer. Fert. & Allied Chem. 113 (7):9-10. Sept.30,1950. 57.8 Am3
- 2292 MOSCHLER, W. W., and others. The effect of varying amounts of ground limestone on the pH and base exchange properties of Sassafras fine sandy loam. Soil Sci. Soc. Amer. Proc. 1949(14):123-125. 1950. 56.9 So3  
S. S. Obenshain, R. P. Cocke, and H. M. Camper, joint authors.
- 2293 NEWMAN, A. S., and THOMAS, J. R. Decomposition of 2,4-dichlorophenoxyacetic acid in soil and liquid media. Soil Sci. Soc. Amer. Proc. 1949(14):160-164. 1950. 56.9 So3
- 2294 NYS, P. F. DE. Les examens rapides du sol. Cour. Hort. 12:445-447. Aug.1950. 80 C834
- 2295 PERKINS, A. T. Reactions of bentonite as influenced by adsorbed cations and grinding. Soil Sci. Soc. Amer. Proc. 1949(14):93-96. 1950. 56.9 So3
- 2296 PURI, A. N. Theory of colloidal behavior of soils. In Alexander, J., ed. Colloid chemistry, v.7, p.443-453. Ref. New York, Reinhold, 1950. 386 AL22C
- 2297 RALEIGH, G. J. Molybdenum deficiency in Dunkirk silty clay loam. Science 112:433-434. Oct.13, 1950. 470 Sci2
- 2298 REITEMEIER, R. F., HOLMES, R. S., and BROWN, I. C. Available nonexchangeable soil potassium at three Northern Great Plains locations by a Neubauer procedure. Soil Sci. Soc. Amer. Proc. 1949(14):101-105. Ref. 1950. 56.9 So3
- 2299 ROBINSON, W. O., WHETSTONE, R. R., and EDGINGTON, G. The occurrence of barium in soils and plants. U. S. D. A. Tech. B. 1013,36 p. Ref. Sept.1950. 1 Ag84Te
- 2300 ROUSE, R. D., and BERTRAMSON, B. R. Potassium availability in several Indiana soils: its nature and methods of evaluation. Soil Sci. Soc. Amer. Proc. 1949(14):113-123. Ref. 1950. 56.9 So3
- 2301 ROUX, E., and HUSSON, C. Méthode de dosage spectrographique du cuivre. France. Inst. Natl. de la Rech. Agron. Ann. Sér. A: Ann. Agron. 1:494-496. July/Aug.1950. 14 F8499
- 2302 SCARTASCINI, G. A. La acidez en las tierras de cultivo. Chacra 20(238):64-65. Sept.1950. 9 C34
- 2303 SCHUFFELEN, A. C. Chemical analysis of soil and crops. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:735-744. Ref. Aug./Sept.1950. 86 N384  
English summary.
- 2304 SCHUFFELEN, A. C. On the chemistry of humus. (In Dutch.) Netherlands. Landvoorrlichtingsdienst. Maandbl. 7:213-218. June 1950. 12 N383M
- 2305 SEMB, G. Chemical soil analysis. (In Norwegian.) Norsk Landbr. 16:379-380. Oct.13,1950. 11 N8122
- 2306 SICHEL, I. Chemical analysis of soils for fertilizer recommendations. Farming So. Africa 25:222. July 1950. 24 So842
- 2307 SMITH, R. S. The differential response of two soil associations to rock phosphate. Agron. J. 42:495-497. Oct.1950. 4 Am34P
- 2308 SPIECKER, M. Der erdbohrstock im dienste des waldbaues. Allg. Forstz. 5:317-318. July 19,1950. 99.8 AL52
- 2309 TAMES, C. Toma de muestras de tierra. Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg. 11-50 H,12 p. June 1950. 15 H68
- 2310 THOMPSON, L. M., and BLACK, C. A. The mineralization of organic phosphorus, nitrogen, and carbon in Clarion and Webster soils. Soil Sci. Soc. Amer. Proc. 1949(14):147-151. Ref. 1950. 56.9 So3
- 2311 TISDALE, S. L., and BERTRAMSON, B. R. Elemental sulfur and its relationship to manganese availability. Soil Sci. Soc. Amer. Proc. 1949(14):131-137. Ref. 1950. 56.9 So3
- 2312 UGARTE LAISECA, J. Fitoquímica forestal. 3. Spain. Inst. Forest. de Invest. y Exper. B. 21(52):146 p. 1950. 99.9 Spl  
Soils.
- 2313 WALKER, G. F. Vermiculite-organic complexes. Nature [London] 166:695-696. Ref. Oct.21,1950. 472 N21
- 2314 WILDE, S. A., TRACH, J., and PETERSON, S. F. Electro-chemical properties of ground water in major types of Wisconsin organic soils. Soil Sci. Soc. Amer. Proc. 1949(14):279-281. 1950. 56.9 So3



2315 WOODRUFF, C. M. Estimating the nitrogen delivery of soil from the organic matter determination as reflected by Sanborn Field. Soil Sci. Soc. Amer. Proc. 1949(14):208-212. 1950. 56.9 So3

2316 ZAMIATINA, V. B. Determination of nitrates in soil with the aid of indigo. (In Russian.) Sovet. Agron. 8(7):58-64. July 1950. 20 So84

#### Soil Biology

2317 BAKHTIN, P. U., and POL'SKII, M. N. Role of earthworms in the structure formation of turfy Podzolic soils. (In Russian.) Pochvovedenie 1950:487-491. Aug. 1950. 57.8 P34

2318 BLANCO-MACÍAS, G. Como enriquecen y mejoran el suelo las plantas leguminosas; la acción de las bacterias nitrificadoras. Tierra [Mexico] 5:465-467, 505. Sept. 1950. 8 T445

2319 BURTON, J. C., and ALLEN, O. N. Inoculation of crimson clover (*Trifolium incarnatum* L.) with mixtures of *Rhizobia* strains. Soil Sci. Soc. Amer. Proc. 1949(14):191-195. Ref. 1950. 56.9 So3

2320 CLARK, F. E., and SMITH, D. H. The occurrence of aerobic mesophilic sporeforming bacteria on plant roots. Soil Sci. Soc. Amer. Proc. 1949(14):199-202. 1950. 56.9 So3

2321 DEMOLON, A. La simbiosis bacteriana en el cultivo de las leguminosas. Spain. Inst. Nac. de Invest. Agron. B. 10(22):227-240. Ref. June 1950. 105.6 Sp14

2322 DRIFT, J. VAN DER. The significance of the biology of the soil for the conversion of organic material. (In Dutch.) T.N.O.-Nieuws 5:254-261. Aug. 1950. 475 T11

2323 ERDMAN, L. W., and MEANS, U. M. Strains of *Rhizobium* effective on the trefoils, *Lotus corniculatus* and *Lotus uliginosus*. Soil Sci. Soc. Amer. Proc. 1949(14):170-175. 1950. 56.9 So3

2324 FAULKNER, E. H. Meet my loyal soil-building slaves; subsoil micro-organisms, earthworms, trapped rainfall and deep-level water enrich the soil and renew its minerals. Flying Plowman 4(8):1-2. Sept./Oct. 1950. 58.8 F67

2325 FEDOROV, M. V. Effect of oxidation indicators on intensity of respiration of *Azotobacter* and atmospheric nitrogen fixation. (In Russian.) Akad. Nauk SSSR. Dok. 72:1139-1142. June 21, 1950. 511 P444A

2326 GORING, C. A. I., and BARTHOLOMEW, W. V. Microbial products and soil organic matter: II. The effect of clay on the decomposition and separation of phosphorus compounds in microorganisms. Soil Sci. Soc. Amer. Proc. 1949(14):152-156. Ref. 1950. 56.9 So3

2327 GRAY, E., and SMITH, J. D. A new aquatic nitrogen-fixing bacterium from three Cambridgeshire chalk streams. J. Gen. Microbiol. 4:281-285. Sept. 1950. 448.3 J823

2328 HATA, T., and others. Studies on the antibiotic substances in the soil. I. Isolation, distribution, classification and antibiotic action of the antibiotic microbes. Kitasato Arch. Expt. Med. 22:113-118. Nov. 1949. 448.8 K64

T. Higuchi, H. Sano, J. Higuchi, K. Michikawa, and S. Koyasu, joint authors.

2329 HAZEN, E. L., and BROWN, R. Two antifungal agents produced by a soil Actinomycete. (Abs.) Science 112:423. Oct. 13, 1950. 470 Sc12

2330 HUGHES, C. E. Out of your soil—today's most exciting drugs. Successful Farming 48(10):50,184-186. Oct. 1950. 6 Su12

Antibiotic drugs.

2331 IWAMURA, M. Biological studies on litter in forests. I. Ecological observation of litter fauna. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:110. Apr. 25, 1950. 99.8 N62

2332 JONES, J. P. El gran valor de las bacterias que son recogidas por las leguminosas. Charla Rur. 134:6. Nov. 1949. 9 C37

2333 KANIVETS, I. I. Role of microflora and cultivated vegetation in increasing availability of nutritive elements in the soil. (In Russian.) Vsesoizn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(7):20-25. 1950. 20 Akl

2334 LYNCH, D. L., and SEARS, O. H. The nitrogen fixing efficiency of strains of *Lotus corniculatus* nodule bacteria. Soil Sci. Soc. Amer. Proc. 1949(14):168-170. 1950. 56.9 So3

2335 MCCALLA, T. M., and DULEY, F. L. Stubble mulch studies: III. Influence of soil microorganisms and crop residues on the germination, growth and direction of root growth of corn seedlings. Soil Sci. Soc. Amer. Proc. 1949(14):196-199. Ref. 1950: 56.9 So3

2336 MCKNIGHT, T. Efficiency of isolates of *Rhizobium* in the cowpea group, with proposed additions to this group. Queensland J. Agr. Sci. 6:61-76. Ref. June 1949. 23 Q37

2337 MANIL, P., and BONNIER, C. Fixation symbiotique d'azote chez la luzerne (*Medicago sativa* L.). Gembloux. Inst. Agron. de l'Etat B 17:123-146. Ref. 1948/1949. 105.1 G285

English summary.

2338 MARSHALL, R. M. Soil—a living mass. Tex. Livestock J. 9(9):9,40. Sept. 15, 1950. 49 T29

2339 MARTIN, H. M. Those busy bacteria. Mich. Conserv. 19(6):11-12. Nov./Dec. 1950. 279.9 M582

In soils.

2340 MORGADO, M. L. Cultivation of legumes and protection of agricultural soil. (In Portuguese.) Gaz. do Agr. 2:164-165, 167. July 1950. 24 G25

2341 NILSSON, P. E. Interrelationship between crop and soil microflora. (In Swedish.) Lantbrakad. Tidskr. 89:262-273. 1950. 104 Sw3

English summary.

2342 PONOMAREVA, S. I. Role of earthworms in creating a stable [soil] structure in the grass-field crop rotations. (In Russian.) Pochvovedenie 1950:476-486. Aug. 1950. Ref. 57.8 P34

2343 PROOM, H., and KNIGHT, B. C. J. G. *Bacillus pantothenicus* (n.sp.). J. Gen. Microbiol. 4:539-541. Sept. 1950. 448.3 J823

2344 SEKERA. Der acker ist krank. Deut. Landwirtschaft. Presse 73(17):1-2; (18):2-3. (Cont.) Aug. 5-19, 1950. 18 D482

Second installment has title Die pflanze muss dem pflug helfen!

Work of soil microorganisms.

2345 SHAIKH, A. M., and KHEMCHANDANI, H. T. Effect of leguminous and non-leguminous crops, salts and different percentages of moisture on the rate of nitrification in soil. Pakistan J. Sci. Res. 1:72-76. Ref. Apr. 1949. 475 P173

2346 STEPHENSON, R. E. Legumes help build better soil to produce increased crops; bacterial action saves fertilizer. Better Fruit 45(4):5, 16, 19. Oct. 1950. 80 B46

2347 STÖRMER, H. Bodenleben, bodenpflege. Ed. 4, enl. Holzminden, Trowitzsch, 1949. 35 p. (Kleinbücher der Gartenpraxis, 4) 56 St72

2348 TEPPER, E. Z. Function of microorganisms in aerobic decomposition of summer straw and subsequent formation of substances similar to humus. (In Italian.) Agr. Nuova 2:335-342. June 1950. 16 Ag8223

2349 THORNTON, G. D., DE ALENCAR, J., and SMITH, F. B. Some effects of *Streptomyces albus* and *Penicillium* spp. on *Rhizobium meliloti*. Soil Sci. Soc. Amer. Proc. 1949(14):188-191. Ref. 1950. 56.9 So3

2350 WANG, T. L., and TCHAN, Y. T. Nouvelle méthode de dosage des éléments minéraux du sol par les *Azotobacter*. Acad. d'Agr. de France. Compt. Rend. 36:475-476. June 21/28, 1950. 14 P215Bc

2351 WOOD, L. B. Tallahassee man raises "plow boys"; sells earthworms to gardeners. Fla. Grower 58(11):19. Nov. 1950. 80 F6622

#### Soil-Plant-Animal Relationships

2352 ALBRECHT, W. A. Soil as the basis of wildlife management. Mo. Conserv. Comm. C. 134:3-9. Aug. 1949. 279.9 M69

2353 ANTONIANI, C., and MONZINI, A. The vitamin content of produce and products used on the farm. II. Vitamin B<sub>1</sub> content of fodders from meadows irrigated with sewer waters as compared with that of fodders from meadows irrigated with clean waters. (In Italian.) Ann. della Sper. Agr. (n.s.) 4:625-630. 1950. 16 An76

English summary.

2354 CRAWFORD, B. Relationships of soils and wildlife. Mo. Conserv. Comm. C. 134:10-18. Aug. 1949. 279.9 M69



- 2355 CUNNINGHAM, I. J. The control of copper deficiency in lambs in New Zealand. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 31:42-48. June 1949. 514 N48A
- Copper-containing fertilizers for pastures.
- 2356 CUNNINGHAM, I. J., and HOGAN, K. G. Increases in the molybdenum content of pasture on an acid peat soil from top-dressing with ammonium molybdate. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 31:39-41. June 1949. 514 N48A
- 2357 DRAGHETTI, A. A problem too little considered in modern agriculture. (In Italian.) *Agr. Nuova* 2:275-278. June 1950. 16 Ag8223
- Soil-plant relationships.
- 2358 EARLEY, D. Soils, fertilizer and human beings. *Tex. Farming & Citric.* 27(3):14-15. Sept. 1950. 80 T31
- 2359 HAMILTON, R. A. Grass and the cow. *Austral. Milk & Dairy Prod. J.* 17(7/8):30. July/Aug. 1950. 44.8 Au72
- Fertilizers for grasslands.
- 2360 KAPP, L. C., SMITH, J. C., and POTTS, R. C. Effect of fertilization on the yield and chemical composition of pasture forage and availability of soil nutrients. *Soil Sci. Soc. Amer. Proc.* 1949(14):142-145. 1950. 56.9 So3
- 2361 NAGEL, W. O. And the land needs wildlife. *Mo. Conserv. Com. C.* 134:37-42. Aug. 1949. 279.9 M69
- 2362 NEWTON, R. C. The relation of animal agriculture to human nutrition. (Sum.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:243-245. 1950. 4 As7
- Plant-animal relationships.
- 2363 ROLA, N. A., and GALVEZ, N. L. Effects of soil reaction on the growth of upland rice and on its nitrogen, calcium, phosphorus, and iron content. *Philippine Agr.* 33:120-125. Ref. Oct./Dec. 1949. 25 P542
- 2364 SCARSETH, G. D. Jungle natives need no vitamins. *Hoosier Farmer* 35(10):24,28. Oct. 1950. 280.82 H76
- Effect of soils on health.
- 2365 TERMAN, G. L., CARPENTER, P. N., and JUNKINS, S. C. Nutrient content of potato plants as affected by fertilizer treatment and other factors. *Soil Sci. Soc. Amer. Proc.* 1949(14):137-142. Ref. 1950. 56.9 So3
- 2366 TRAUTMANN, H. Soil nutrients and the health of man. *Certified Milk* 25(10):4-5,13. (To be cont.) Oct. 1950. 44.8 C33
- Soil Genesis, Formation, Classification, and Mapping
- 2367 ABLEITER, J. K. Trends in soil classification and correlation at the series level. *Soil Sci. Soc. Amer. Proc.* 1949(14):320-322. 1950. 56.9 So3
- 2368 AZEVEDO, O. DE. Zoning. (In Portuguese.) *Azores. Comis. Regulad. dos Cereais. B.* 6(12):73-77. Second Semes. 1950. 15 Az6
- Soil classification.
- 2369 BEEKOM, C. W. C. VAN. Mucksoils in the U. S. A., important for Dutch emigrants? (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13:412-416. July 1950. 86 N384
- English summary.
- 2370 BEESLEY, T. E., and others. Soil survey Otoe County, Nebraska. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Soil Survey. 1940(6), 87 p. Aug. 1950. 1 So32F
- W. J. Moran, V. W. Filley, C. E. Piloher, and C. R. Buzzard, joint authors.
- 2371 BUSHNELL, T. M. Soil profile formulae. (Abs.) *Soil Sci. Soc. Amer. Proc.* 1949(14):329. 1950. 56.9 So3
- 2372 CURINI GALLETTI, A. Clays of Volterra. (In Italian.) *Terra [Firenze]* 61(32):2. Aug. 6, 1950. 16 T274
- 2373 DIAZ VIAL, C. Asociación de suelos de la Isla de Pascua. Chile. *Dir. Gen. de Agr. Agr. Tec.* 9:115-132. Dec. 1949. 464.9 C432B
- English summary.
- 2374 DIAZ VIAL, C. Carta detallada de los suelos de la vega sur de La Serena. Chile. *Dir. Gen. de Agr. Agr. Tec.* 9:162-171. Dec. 1949. 464.9 C432B
- English summary.
- 2375 HARRADINE, F. F. The variability of soil properties in relation to stage of profile development. *Soil Sci. Soc. Amer. Proc.* 1949(14):302-311. Ref. 1950. 56.9 So3
- 2376 HESTER, J. B., SHELTON, F. A., and ISAACS, R. L., JR. Know your soil. IV-V. Better Crops Plant Food 34(8):21-23,46. Oct. 1950. 6 B46
- IV, Conestoga silt loam; V, Collington sandy loam.
- 2377 HOLE, F. D. The use of relief models in training soil surveyors. *Agron. J.* 42:520-521. Ref. Oct. 1950. 4 Am34P
- 2378 HSEUNG, Y., MARSHALL, C. E., and KRUSE-KOPF, H. H. On the origin of gumbotil. *Soil Sci. Soc. Amer. Proc.* 1949(14):311-315. Ref. 1950. 56.9 So3
- 2379 JAMES, M. S., and others. Physical land conditions in the Fredonia Soil Conservation District, Arizona. *Ariz. Agr. Expt. Sta. B.* 231, 19 p. July 1950. 100 Ar4
- R. D. Headley, H. V. Smith, and W. G. Harper, joint authors.
- 2380 KELLOGG, C. E. The future of the soil survey. *Soil Sci. Soc. Amer. Proc.* 1949(14):8-13. 1950. 56.9 So3
- 2381 KEVERS G. Considérations sur les sols et pâtures du Haut-Lomami (Congo Belge). *Agricultura [Louvain]* 48:60-88. Aug. 1950. 13 R32
- Soil genesis and classification.
- 2382 LEENHEER, L. DE. La caractérisation des profils pédologiques, son importance pratique et scientifique. *Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech.* 1950(4):105-124. Aug. 1950. 330.9 In7C
- 2383 LEENHEER, L. DE., and CAESTECKER, K. DE. Les récoltes expérimentales, leur valeur économique et scientifique en cartographie pédologique. (In Flemish.) *Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech.* 1950(4):189-209. Aug. 1950. 330.9 In7C
- French summary.
- 2384 LEIGHTY, W. J., and WYATT, C. E. Soil survey, Marshall County, Kentucky. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Soil Survey. 1938(29), 109 p. Ref. Sept. 1950. 1 So32F
- 2385 MCCAULEY, S. B., and CLINE, M. G. Profile studies of normal soils of New York. III. Physical and chemical properties of Brown Forest and Gray-Brown Podzolic soils. *Soil Sci.* 70:315-328. Ref. Oct. 1950. 56.8 So3
- 2386 MANIL, G., and PECROT, A. La cartographie pédologique de la région de Gembloux. *Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech.* 1950(4):73-85. Aug. 1950. 330.9 In7C
- 2387 MANTELET, C. Les plaines maritimes du nord de la France. *France. Inst. Natl. de la Rech. Agron. Ann. Sér. A: Ann. Agron.* 1:431-484. Ref. July/Aug. 1950. 14 F8499
- 2388 MENDES, C. T. Fertility of our soils. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 25:225-241. July/Aug. 1950. 9.2 R324
- Classification of Brazilian soils.
- 2389 MILLER, M. F. Progress of the soil survey of the United States since 1899. (Abridged.) *Soil Sci. Soc. Amer. Proc.* 1949(14):1-4. 1950. 56.9 So3
- 2390 MOORMANN, F. R., and AMERYCKX, J. Les sols des polders marins. (In Flemish.) *Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech.* 1950(4):37-60. Ref. Aug. 1950. 330.9 In7C
- French summary.
- 2391 NAJMR, S. Some results of the research of the organic matter in the genetic soil types. II. The brown earth type. (In Czech.) *Českoslov. Akad. Zeměděl. Sborn.* 22:544-559. Ref. 1950. 19.5 C332C
- English summary.
- 2392 PENDLETON, R. L. Soils and land use in peninsular Siam. Thailand. *Dept. Agr. Tech. B.* 3, 178 p. 1949. 22.5 Si1T
- 2393 PEREDO REYES, E. Contribución al estudio de las tierras negras de transporte derivadas de rocas calizas en el llano de Apazapan, Ver. *Chapingo* 4:477-491. May 1950. 102 C36
- 2394 POULSON, E. N., and STROMBERG, L. K. Soil survey, the Duncan area, Arizona, New Mexico. U. S. Bur. Plant Indus. Soils & Agr. Engin. Soil Survey, 1941(1), 48 p. Sept. 1950. 1 So32F
- 2395 PRINCIPI, P. Agricultural soils of Umbria. XII. (In Italian.) *Ital. Agr.* 87:481-489. Aug. 1950. 16 It1
- Types.



2396 RODRIGUEZ Z., M. Reconocimiento de los suelos de la Provincia de Bio-Bio. Chile. Dir. Gen. de Agr. Agr. Tec. 9:133-161. Dec.1949. 464.9 C432B English summary.

2397 SAWAFUJI, M. On the distribution and characters of black forest soil in Iwate District. (Preliminary). (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:119. Apr.25,1950. 99.8 N62

2398 SCHEYS, G. Observations on the origin, physical situation and agricultural value of the various land types in the loam region of Limburg and Brabant. (In Flemish.) Agricultura [Louvain] 48:41-59. Aug.1950. 13 R32

French summary.

2399 SCHEYS, G., and others. Quelques sols importants de Hesbaye septentrionale, Herve et Haute-Ardenne et leur évolution. I-III. Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech. 1950(4):87-104. Aug.1950. 330.9 In7C

I, by G. Scheys and F. Gullentops; II, by J. Deckers and F. Gullentops; III, by P. Pahaut, and F. Gullentops.

2400 SCHEYS, G., and VANDERHASSELT, P. The relation between soil types and their agricultural value in the clay region. (In Flemish.) Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech. 1950(4):211-242. Aug.1950. 330.9 In7C

French summary.

2401 SIMONSON, R. W. Genesis and classification of Red-Yellow Podzolic soils. Soil Sci. Soc. Amer. Proc. 1949(14):316-319. Ref. 1950. 56.9 So3

2402 SMITH, G. D., ALLAWAY, W. H., and RIECKEN, F. F. Prairie soils of the Upper Mississippi Valley. In Advances in agronomy, v.2,p.157-205. Ref. New York, Acad. Press, 1950. 30 Ad9

2403 SMITH, R. M., and SAMUELS, G. A system of soil profile characterization. J. Soil & Water Conserv. 5: 158-164, 198. Ref. Oct.1950. 56.8 J822

2404 SNACKEN, F., and MOORMANN, F. R. Soils of the sandy region. (In Flemish.) Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech. 1950(4):61-72. Aug.1950. 330.9 In7C

French summary.

2405 SPRINGER, M. E. Reconnaissance soil survey of Japan: Shikoku. Supreme Commander Allied Powers. Nat. Resources Sect. Rpt. 110-D, 60 p. Sept.1950. 280.9 AL5

2406 STORIE, R. E., and HARRADINE, F. F. Soil survey data as a basis for the assessment of irrigation district lands. Soil Sci. Soc. Amer. Proc. 1949(14):327-329. 1950. 56.9 So3

2407 TAVERNIER, R. La cartographie des sols en Belgique. Inst. pour l'Encour. de la Rech. Sci. dans l'Indus. et l'Agr. Compt. Rend. de Rech. 1950(4):7-35. Aug.1950. 330.9 In7C

Text in Flemish and French.

2408 TRUOG, E. Enlarging the use of soil survey maps and reports. Soil Sci. Soc. Amer. Proc. 1949(14): 5-7. 1950. 56.9 So3

2409 ULRICH, R. Some physical changes accompanying Prairie, Wiesenboden and Planosol soil profile development from Peorian loess in southwestern Iowa. Soil Sci. Soc. Amer. Proc. 1949(14):287-295. Ref. 1950. 56.9 So3

2410 WHITLOCK, H. W. The soil map—a modern engineering tool. Surveying & Mapping 10:174-179. July/Sept.1950. 325.8 Am3

2411 WOLFANGER, L. A. The great soil groups and their utilization. In Smith, G., ed. Conservation of natural resources, p.25-62. Ref. New York, Wiley, 1950. 279'12 Sm5

#### SOIL MANAGEMENT

2412 ASHLEY, R. H. Invasion and development of natural vegetation on spoil banks in central Pennsylvania. (Abs.) J. Forestry 48:400. Sept.1950. 99.8 F768

2413 BAILEY, R. W. Watershed management: key to resource conservation. No. Amer. Wildlife Conf. Trans. 15:68-75. 1950. 412.9 N814

Includes discussion.

Also in J. Forestry 48:393-396. Sept.1950. 99.8 F768

2414 BANDINI, M. The use of explosives in agrarian transformation. (In Italian.) Acque Bonifiche Costr. (n.s.) 19:76-79. Feb.1950. 54.8 Ac7

2415 BRICHAMBAUT, G. P. DE. Merdjas cotières en mises en défens. Terre Maroc. 24:345-348. Sept. 1950. 24 T44

Drainage and soil management.

2416 BUTIJN, J. Soil treatment in fruit farming. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:745-751. Aug./Sept.1950. 86 N384

English summary.

2417 CHATILLON, A. H. Traité élémentaire de culture biologique. Lausanne, Chêne Vert, 1950. 54 p. 30 C39

Organic farming.

2418 DEMARIA MASSEY, D. El agricultor debe ser previsor; la conservación de la humedad en el suelo, para contrazar las sequías. Uruguay. Min. de Ganad. y Agr. B. Inform. 333:5. Aug.10,1950. 9.9 G15B

2419 FERRO, R. B. Aspects of clay marling. Farming [Norwich] 4:278-279. Sept.1950. 10 F2238

2420 FURNEAUX, B. Grass, graziers and the grower. Grower [London] 34:830-831. Oct.21,1950. 268.83 M34

Grazing and mowing of orchards.

2421 GOSDIN, G. W., STELLY, M., and ADAMS, W. E. The organic matter and nitrogen content and carbon-nitrogen ratio of Cecil soil as influenced by different cropping systems on Classes II, III, and IV land. Soil Sci. Soc. Amer. Proc. 1949(14):203-208. 1950. 56.9 So3

2422 GUARD, S. R. New life for wastelands. Breeder's Gaz. 115(10):7,18-19. Oct.1950. 49 B74

2423 HUTCHINSON, J. Fourteen feet of forgotten fertility. Farmers Wk. [London] 33(8):53,55. Aug.25, 1950. 10 F2226

Uncultivated for centuries; a Gloucestershire farm is restored to productiveness under a private reclamation scheme.

2424 KOHNKE, H. The reclamation of coal mine spoils. In Advances in agronomy, v.2,p.317-349. Ref. New York, Acad. Press, 1950. 30 Ad9

2425 MACDANIELS, L. H. Facts about organic gardening. Prof. Gard. 2:219,221-222. (Cont.) Sept.1950. 80 P945

2426 MCKINNEY, J. Cattle raising the common sense way. Prog. Farmer, Miss.-Ark.-La. Ed. 65(10):16. Oct.1950. 6 So81

Soil and pasture management.

2427 MISSIO, F. The Friulian waste lands and their agricultural utilization. (In Italian.) Agr. delle Venezie 4:251-264. (To be cont.) Aug.1950. 16 Ag826

Reclamation.

2428 MORSE, B. C. Dry-land farming helps soil, boosts yields in arid West. Goodyear Farm Prog. 6(3):1. Sept.1950. 6 G63

Soil and water conservation methods.

2429 MOZZI, U. Venetian problems at the Regional Economic Conference for the Study and Application of the Plan proposed by the General Italian Labor Confederation. (In Italian.) Agr. delle Venezie 4:231-241. Aug. 1950. 16 Ag826

Reclamation problems.

2430 PURNELL, W. F., and WALKER, E. D. Handling northeastern Illinois soils. Ill. Agr. Col. Ext. C. 663, 14 p. June 1950. 275.29 IL62C

2431 RAGAZZI, G. Plowing, manure, and land development. (In Italian.) Agr. Ferrarese 54:148-150. July 31, 1950. 16 Ag87

2432 SUCHALKINA, M. I. Change in organic matter of ordinary Chernozem in the crop rotation system of agriculture in Kamennaya Steppe. (In Russian.) Pochvo-vedenie 1950:449-455. Ref. Aug.1950. 57.8 P34

2433 TAKEDA, S. Studies on watershed variables which affect upon stream flow. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:130. Apr.25,1950. 99.8 N62

2434 WARDNER, C. A. Our soils—preserving a heritage. Val. Farmer 1(7):6-7,22. Sept.1950. 6 V244

Soil management.

2435 WOOD, W. E. A farmland resurrection; the story of the restoration of 500 bomb-blasted Staffordshire acres. Farmers Wk. [London] 33(9):50-51. Sept. 1, 1950. 10 F2226

2436 ZINECKER, E. Die dynamische auffassung der forstlichen bodenkunde. Allg. Forst- u. Jagdztg. 121:139-144. 1950. 99.8 AL3

2437 ZITZEWITZ, W. Droht bodenmüdigkeit? Gart.-Z. Illus. Flora 73:94. Aug.1950. 80 G1991



## Soil Fertility

- 2438 AGUIRRE A., R. 50 años de experiencia con abonos. *Agro [El Valle]* 5(13):63-66. Jan./Aug. 1950. 9.95 Ag83
- 2439 AGUIRRE ARREGUI, A. Suelo y producción, complemento a los libros "Tierras y fertilizantes" y "Alimentación del hombre y de los animales". Montevideo, Letras, 1950? 30 p. 56.23 Ag9
- 2440 ALGERIA. SERV. AGRICOLE GENERAL. Choisissez bien vos terres à planter. *Algérie. Insp. Gén. et Dir. de l'Agr. Doc. et Renseign. Agr. B.* 163,6 p. 1950. 24 AL34
- 2441 ANDREWS, W. B. The response of cotton to fertilizers. In Andrews, W. B., ed. *Cotton production, marketing and utilization*, p.54-94. Ref. State College, Miss., 1950. 280.372 An22
- 2442 ARDITI, A. The place of organic manure in the farm. *Hassadeh* 30:591-592. July 1950. 26 H27 In Hebrew.
- 2443 ATTOE, O. J., and TRUOG, E. Correlation of yield and quality of alfalfa and clover hay with levels of available phosphorus and potassium. *Soil Sci. Soc. Amer. Proc.* 1949(14):249-253. 1950. 56.9 So3
- 2444 AUDIDIER, L., GARAUDÉAUX, J., and SIMEON, S. Essais de fumure sur prairies de fauche. II. Étude de la qualité des fourrages, teneur en azote total. *Acad. d'Agr. de France. Compt. Rend.* 36:456-459, 479-484. June 7/14-21/28, 1950. 14 P215Bc
- 2445 AVATTANEO, R. Applications of biological chemistry and plant physiology to the agricultural technique of soil fertilization. (In Italian.) *Sci. e Tec.* 11: 135-139. Ref. May/Aug. 1950. 475 Sci272
- 2446 BACHTELL, M. A. Grassland farming increases need for potash conservation. *Ohio Farm & Home Res. [Ohio Sta.]* 35:51-53. July/Aug. 1950. 100 Oh3S
- 2447 BAILEY, M. V. Teaming up for increased production per acre. *Popkess' Dairyman's J.* 37:12, 14. Apr. 1950. 44.8 D142
- Fertilization and weed control in potatoes.
- 2448 BAIRD, G. Apply fertilizer to your soil according to plant requirements. *U & I Cult.* 10(2):28. Aug. 1950. 66.8 U12
- 2449 BATTISTELLI, E. Agronomical note. (In Italian.) *Colt. e Glor. Vinic. Ital.* 96:216-217. Aug. 15/30, 1950. 16 C72
- Potassium fertilization of grain.
- 2450 BATTISTELLI, E. Soil depletion. (In Italian.) *Cron. Econ.* 85/86:25-26. July 15/31, 1950. 280.8 C882
- 2451 BAUR, K., and TREMBLAY, F. T. Band the fertilizer for best results with row crops in western Washington. *Better Crops Plant Food* 34(8):17-20, 42-43. Oct. 1950. 6 B46
- 2452 BEAUCHAMP, C. E. Nutrición y abonado de las plantas económicas. II. Cons. Interamer. de Com. y Prod. *Cuest. Agr.* 6:43 p. 1950. 281.9 C7662
- 2453 BELLING, B. How about green manures? (In Danish.) *Husmanden* 48:196-197. Mar. 26, 1950. 11 H962
- 2454 BERNARDES, B. C. Argelia phosphate (superphosphate) and its use in fertilizing rice. (In Portuguese.) *Lav. Arroz.* 4(43):19, 21-23. July 1950. 59.8 L39
- 2455 BERTHAULT, P. L'enfouissement des pailles et l'humus du sol. *Rev. Agr. de l'Afrique du Nord* 48: 699-703. Sept. 29, 1950. 80 R326
- 2456 BLIN, H. Le chaulage et la productivité des terres. *Monit. Agr.* 3(126):8. Aug. 27, 1950. 14 M744
- 2457 BODDY, H. Fall-time to think about fertilizing. *West. Dairy J.* 6(12):9, 16-17. Oct. 1, 1950. 44.8 W524
- Pastures.
- 2458 BOSMA, W. A. The significance of organic manure for the reclaimed Zuiderzee-soils. (In Dutch.) *Landbk. Tijdschr.* 62:542-550. July 1950. 105.2 Or3 English summary.
- 2459 BREAKWELL, E. J. The challenge of declining soil fertility. *Agr. Bur. N. S. Wales. State Conf.* Hawkesbury Agr. Col. 26:24-25. 1950. 23 Ag82S
- 2460 BROWN, H. D. Soil—and what we can grow in it. *Mkt. Growers J.* 79(9):16-19, 21. Sept. 1950. 6 M34
- 2461 BUSHNELL, J. Fertilizers for early cabbage, tomatoes, cucumbers and sweet corn. *Ohio. Agr. Expt. Sta. Res. B.* 697, 40 p. Ref. June 1950. 100 Oh3S
- 2462 BUTOVSKIĬ, V. Repeated sowing of lupine and other crops for green manure on sandy soils of Polesye. (In Russian.) *Sovet. Agron.* 8(6):60-69. June 1950. 20 So84
- 2463 BUTOVSKIĬ, V. Use of potassium salts to decrease the washing out of nitrogenous fertilizers from sandy soils. (In Russian.) *Pochvovedenie* 1950:492-500. Ref. Aug. 1950. 57.8 P34
- 2464 CATALINA, L. La cal como fertilizante. *Vinos, Viñas y Frutas* 45(538):89, 91. July 1950. 9 Ag89
- 2465 CHAPMAN, C. J. Top dress clover and alfalfa seedlings with high potash fertilizer. *Cent. Exch. Messenger* 5(4):43. Sept./Oct. 1950. 280.28 C33
- 2466 CHESTER, K. S. Complete mineral soil fertility. *Natl. Farm Chemurg. Council. Res. Div. Chemurg. Papers* 4, 6 p. 1950. 381 N2132
- 2467 COCANNOUER, J. A. The place for weeds. *Land* 9:402-404. Autumn 1950. 279.8 L22
- Soil fertilizing value of weeds.
- 2468 COCANNOUER, J. A. Weeds: guardians of the soil. *New York, Devin-Adair*, 1950. 179 p. 79 C64
- 2469 COLWELL, W. E. Calcium sulphate as a fertilizer for peanut. (Abs.) *Amer. Fert. & Allied Chem.* 113(7):10, 28. Sept. 30, 1950. 57.8 Am3
- 2470 COMPAGNON, P., and TIXIER, P. Sur une possibilité de stimuler la production d'Hevea brasiliensis par l'apport d'oligo-éléments. *Rev. Gén. du Caoutchouc* 27:591-594. (Cont.) Oct. 1950. 305.8 R32
- English summary, p. 601-602.
- 2471 CORDS, H. P., and CHAPMAN, L. C. Fertilize small grains. *Prog. Agr. Ariz.* 2(3):3, 12. Oct./Dec. 1950. 6 P9452
- 2472 CUMMINGS, M. B. Mineral constituents of leaves; leaves of trees are rich in plant nutrients and humus. *Org. Gard.* 17(4):40-41. Oct. 1950. 56.8 Or3
- 2473 CURINI GALLETTI, A. Cultivation of grain on clay hills. (In Italian.) *Terra [Firenze]* 61(34/35):5. Aug. 20/27, 1950. 16 T274
- 2474 CURINI GALLETTI, A. Necessity and utility of grain fertilizing. (In Italian.) *Terra [Firenze]* 61(37):3. Sept. 10, 1950. 16 T274
- 2475 DALMASSO, G. For our daily bread; the "magna parens frugum" must be sustained. (In Italian.) *Colt. e Glor. Vinic. Ital.* 96:248-249. Sept. 30, 1950. 16 C72
- Fertilizers in grain production.
- 2476 DANIEL, W. H. The effect of varying soil moisture, fertilization, and height of cutting on the quality of turf. *Mich. U. Microfilm Abs.* 10(3):242-243. 1950. 241.8 M58
- 2477 DAVIS, J. F. Muck soils when properly fertilized produce high yields. *Amer. Plant Food Council. J.* 4(3):5-11. July/Sept. 1950. 57.8 P692
- 2478 DEMOLON, A. Semez des engrais verts. *Algérie. Insp. Gén. et Dir. de l'Agr. Doc. et Renseign. Agr. B.* 159, 3 p. 1950. 24 AL34
- 2479 DION, H. G., DEHM, J. E., and SPINKS, J. W. T. Tracer studies with phosphate fertilizers. *Canad. Chem. & Process Indus.* 34:905-909. Ref. Nov. 1950. 381 C16
- 2480 DUKA, V. I. For constructing a scientific system of fertilizers in the vegetable grass-field crop rotations. (In Russian.) *Sad i Ogorod* 1950(7):45-49. July 1950. 87 Sa1
- 2481 DUNTON, E. M., JR., BELL, F. W., and TAYLOR, M. E. The influence of acid-forming and neutralized fertilizers on the soil reaction and nutrient level in the Irish potato row during the growing season. *Agron. J.* 42:512-515. Oct. 1950. 4 Am34P
- 2482 EDEL'STEIN, M. M. External preharvest feeding of sugar beets. (In Russian.) *Sakh. Promysh.* 24(5):39-41. May 1950. 65.8 Sa2
- Spraying with phosphoric acid and potassium solutions.
- 2483 ENIKKEEV, S. G. Superficial application of boron to alfalfa for seed. (In Russian.) *Selekt. i Semen.* 17(7):74-75. July 1950. 61.9 Se5
- 2484 FERTILITY from the air; full report of the first large scale top-dressing trial on hill grazings [in Wales]—a landmark in farming history. *Farmers Wk. [London]* 33(10):46-51. Sept. 8, 1950. 10 F2226
- 2485 FONDARD, L. La fumure des arbres fruitiers. *Bouches du Rhône Agr.* 23(1033):15. Sept. 1, 1950. 14 B662



2486. FRANC DE FERRIÈRE, P. J. J. *Éléments fertilisants du sol et alimentation NPK de la vigne en 1947 et 1948.* France. Inst. Natl. de la Rech. Agron. Ann. Sér. A: Ann. Agron. 1:485-493. July/Aug. 1950. 14 F8499
2487. FRASER, R. *Indiana muck crop champions.* Better Crops Plant Food 34(8):24,48. Oct. 1950. 6 B46 Vegetable yields.
2488. FREGOLA, C. *Fertilization of wheat.* (In Italian.) Agr. Tosc. 5:355-358. Oct. 1950. 16 Ag827
2489. FROLOV, P. A. *Responsiveness of [grain] varieties to fertilizers (Experiment of Olashinsk Variety Plot).* In Russian.) Sele. i Semen. 17(5):60-63. May 1950. 61.9 Se5
2490. GAMARRA D., L. *La alimentación y las tierras cultivadas en el Perú.* Co. Admin. del Guano, Peru. B. 26:9-13. Jan./Feb. 1950. 57.9 C73B
2491. GARDENHIRE, J. H., and others. *Oat fertilizer tests in north-central Texas.* Tex. Agr. Expt. Sta. Prog. Rpt. 1287, 2 p. Nov. 6, 1950. 100 T31P  
M. J. Norris, J. C. Smith and D. I. Dudley, joint authors.
2492. GARNER, H. V. *A fertilizer programme for winter wheat.* Brit. Farmer 27:8. Sept. 30, 1950. 281.8 B77
2493. GERICHKE, S. *Düngungsfragen im zuckerrübenbau.* Zucker 3:274-278. (Cont.) July 1, 1950. 65.8 Z82
2494. GESSEL, S. P. *Correlation between certain soil characteristics and site for Douglas-fir in north-western Washington.* Soil Sci. Soc. Amer. Proc. 1949(14): 333-337. 1950. 56.9 So3
2495. GIBBS, L. C. *Plants must eat, too.* N. Mex. Agr. Col. Ext. News 30(9):5. Sept. 1950. 275.29 N463Ex
2496. GOLDSCHMIDT, W. B. *Fertilizers for Low-vel soils.* Farming So. Africa 25:235-238. July 1950. 24 So842
2497. GRISSOM, P. H. *Soil fertility practices for cotton production in the Yazoo-Mississippi Delta.* Miss. Agr. Expt. Sta. B. 473, 23 p. May 1950. 100 M69
2498. GROVEN, I. *Nutrition deficiency in the orchard.* (In Norwegian.) Gartneryrket 40:703-704. Oct. 7, 1950. 80 G1938
2499. HANSELL, J. *Cover crops in walnut and filbert orchards.* Nowest. Nut Bowl 2(2):1-2,4. Aug. 1950. 94.68 N81
2500. HARDY, F. *Phosphate and sugar-cane.* Brit. West. Indies Sugar Assoc. Proc. Mtg. Sugar Technol. 1949:39-47. 65.9 B775
2501. HART, M. L. *'T. Organic material and grass-land.* (In Dutch.) Landbk. Tijdschr. 62:532-542. July 1950. 105.2 Or3
2502. HESTER, J. B. *How to fertilize for better vegetables.* Crops & Soils 3:14-15. Oct. 1950. 6 W55
2503. HIBBARD, A. D. *Selecting a winter cover crop for the orchard.* Mo. State Hort. Soc. Hort. News 1950:3-4. Oct. 1950. 81 M692H
2504. HOBBS, J. A., and BERTRAMSON, B. R. *Boron uptake by plants as influenced by soil moisture.* Soil Sci. Soc. Amer. Proc. 1949(14):257-261. 1950. 56.9 So3  
Tomato plants used in the experiment.
2505. HOFF, G. *Alfalfa a soil-building green manure crop; value of legume crops shown by actual per-acre cost records.* Flying Plowman 4(8):1-3. Sept./Oct. 1950. 58.8 F67
2506. HORST, J. A. TER. *Treatment of the orchard soil.* (In Dutch.) Betuws Tuinbouwbl. 8(10):5-6. July 15, 1950. 80 B464
2507. HUPPERT. *Wie passe ich die N-gabe zu getreide wechselnden wachstumsverhältnissen an?* Hannoverische Land- u. Forstwirtschaft. Ztg. 103:417. Apr. 22, 1950. 18 H194
2508. IAREMENKO, P. *Experiment in application of azotogen [to corn].* (In Russian.) Kolkhoz. Proizvodstvo 10(6):43. June 1950. 281.8 K83
2509. ISHIDA, H. *Jusei (Fertilization).* Tokyo, Aoyama Shoin, 1950. 236 p. (Aoyama Kagaku Shinsho, 5) 463.38 Is3
2510. JACOBY, T. *Kohlensäure als pflanzendünger.* Orion 5:664-666. Aug. 1950. 474 Or4
2511. JEX, W. F. C. *The maintenance of soil fertility. Trash conservation and fertilisers: higher yields and lower costs.* So. African Sugar J. 34:507, 509. Aug. 1950. 65.8 So8  
Sugarcane.
2512. JONES, T. L. *"Balance".* Amer. Soc. Farm Mgr. & Rur. Appraisers J. 14:125-127. Oct. 1950. 281.8 Am32  
Soil fertility.
2513. JÖRISSEN. *Voll düngung auf der wiese.* Deut. Landwirt. Presse 73(17):6. Aug. 5, 1950. 18 D482
2514. KELSICK, R. E. *St. Kitts: a note on high nitrogen and phosphate experiments with sugar cane.* Brit. West Indies Sugar Assoc. Proc. Mtg. Sugar Technol. 1949:82-83. 65.9 B775
2515. KIEHL, E. J. *Green fertilization with lupine (Lupinus sp.).* (In Portuguese.) Solo 41:51-63. Oct. 1949. 9.2 So4
2516. KNIGHT, L. *Spraying to kill.* Grower [London] 34:411,413. Aug. 26, 1950. 268.83 M34  
Importance of soil fertility in controlling plant disease.
2517. KONIG, F. *Die rolle der nährstoffversorgung bei der leistungssteigerung der wiese.* Landwirt. Jahrb. f. Bayern 27(sup.), 209 p. Sept. 1950. 18 L24
2518. KUILE, J. H. TER. *Fertilizing fruit trees.* (In Dutch.) Fruitteelt 40:654-656. Aug. 31, 1950. 86 N28
2519. KUNKEL, R., GARDNER, R., and BINKLEY, A. M. *Results of fertilizer trials on potatoes in the San Luis Valley [Colorado].* Amer. Potato J. 27:309-318. Sept. 1950. 75.8 P842
2520. KUSAKA, M., and MIDORIKAWA, T. *On the judgement of soil fertility of nursery beds by the growth of weeds. II. (Abs.)* (In Japanese.) Jap. Forestry Soc. J. 32:107. Apr. 25, 1950. 99.8 N62
2521. LANGE, W. E. *23 years of superphosphate trials.* So. Austral. Dept. Agr. J. 53:562-563, 567. July 1950. 23 So84  
Superphosphate dressings applied to wheat crops.
2522. LOWREY, G. W., and others. *Commercial fertilizer results with winter wheat and rye, 1950.* Nebr. Agr. Expt. Sta. Outstate Testing C. 10, 19 p. Aug. 1950. 100 N270  
R. A. Olson, A. F. Dreier, and P. L. Ehlers, joint authors.
2523. MCCALL, W. W. *Using fertilizer right.* Fla. Grower 58(11):4,15. Nov. 1950. 80 F6622
2524. MCEVOY, E. T. *The effect of chlorine on tobacco.* Canada. Expt. Farms. Tobacco Div. Lighter 20(3): 14-15. Aug. 1950. 286.89 C16
2525. MACLEAN, A. A. *Expériences sur la fertilisation des céréales dans les Provinces Maritimes.* Agriculture [Montreal] 7:152-159. Summer 1950. 7 Ag82
2526. MACLEAN, A. J. *Engrais commerciaux pour la culture des céréales sur différents types de sols dans l'Est de l'Ontario.* Agriculture [Montreal] 7:143-151. Summer 1950. 7 Ag82
2527. MARTIN, E. R. H. *A brief review of results obtained in Antigua from experiments with large dressings of sulphate of ammonia and superphosphate.* Brit. West Indies Sugar Assoc. Proc. Mtg. Sugar Technol. 1949:79-81. 65.9 B775
2528. MARTIN, F. *La fumure azotée de la canne à sucre.* B. des Engrais 22:95-97. June 1950. 57.8 B87
2529. MARTIN, J. P. *Treating old citrus soils.* Citrus Leaves 30(11):10-11. Nov. 1950. 80 C492
2530. MATKIN, O. A., and BRENNER, G. N. *Practical liquid fertilization.* South. Florist & Nurseryman 63 (31):9-10. Oct. 27, 1950. 80 So86
2531. MELO, E. M. DE. *Importance of organic matter in the Tropics.* (In Portuguese.) Seleç. Agr. 5 (52):19-20. Aug. 1950. 9.2 Se4  
In soils.
2532. MESNIER, P. *Le superphosphate, où et quand l'employer?* Agr. du Sud-Est (n.s.) 57(14):2. Sept. 3, 1950. 14 Ag88
2533. MIDDELBURG, H. A. *The tobacco soil system in the Tropics.* (In Dutch.) Bergcultures 19:315, 317, 319, 321, 323, 325. Ref. Sept. 1, 1950. 22.5 B45
2534. MILLER, E. V., and others. *Population density of unirrigated maize and its influence upon fertilizer efficiency in Central Mexico.* Soil Sci. Soc. Amer. Proc. 1949(14):270-275. 1950. 56.9 So3  
J. B. Pitner, R. Villa J., and C. Romo G., joint authors.
2535. MUHAMMAD, S., and BASHIR, M. *Availability of phosphates from bone meal under different soil conditions.* (Abs.) Co-op. & Mktg. Rev. 4:246-247. July 1950. 280.28 C78243
2536. MULHOLLAND, W. B. *New method of fertility level control.* Amer. Nurseryman 92(10):36-39. Nov. 15, 1950. 80 Am371
2537. NAVARRO S., J. *Los fertilizantes en la agricultura.* Tierra [Mexico] 5:497-500. Sept. 1950. 8 T445



- 2538 NELSON, T. C. Higher animals and forest soil fertility. *J. Forestry* 48:722. Oct.1950. 99.8 F768
- 2539 NIESCHLAG, F. Schlick auf das ödland? *Deut. Landwirt. Presse* 73(17):4-5. Aug.5,1950. 18 D482
- 2540 OCHOA, A. E. Exito y fracaso en el uso de los abonos. *Agro [El Valle]* 5(13):31-45. Jan./Aug.1950. 9.95 Ag83
- 2541 ODLAND, T. E., and ALLBRITTEN, H. G. The effect of various amounts of nitrogen, phosphoric acid, and potash on the yields of silage corn. *Soil Sci. Soc. Amer. Proc.* 1949(14):221-223. 1950. 56.9 So3
- 2542 PADUA, G. DE. Which is most important? Good land or a good farmer? (In Portuguese.) *Seleç. Agr.* 5(52):43-45. Aug.1950. 9.2 Se4
- 2543 PAGE, N. R., and PADEN, W. R. Differential response of snapbeans, crimson clover, and turnips to varying rates of calcium and sodium borate on three soil types. *Soil Sci. Soc. Amer. Proc.* 1949(14):253-257. 1950. 56.9 So3
- 2544 PANNEBERG, P. Dünger sparen? *Hannoversche Land- u. Forstwirt. Ztg.* 103:336. Apr.1,1950. 18 H194
- 2545 PLICE, M. J. Some effects of salt water on soil fertility. *Soil Sci. Soc. Amer. Proc.* 1949(14):275-278. 1950. 56.9 So3
- 2546 POZDENA, L. Die düngung der wiesen. *Burgenländische Bauernbündler* 3(17):5-6. Sept.10,1950. 19 B91
- 2547 PRATOLONGO, U. Soil fertility—Inexhaustible? (In Italian.) *Gior. di Agr.* 60:243. July 30,1950. 16 It1G Italy.
- 2548 PREVOT, P. Nutrition minérale et rendements de l'arachide en France et au Sénégal. *Oléagineux* 5:557-562. Oct.1950. 77.8 OL2
- 2549 PRIIMAK, A. K. Fertilizers as a means of increasing productivity of orchards in Kuban Area. (In Russian.) *Sad i Ogorod* 1950(7):10-17. 1950. July 1950. 87 Sm1
- 2550 REA, H. E., WOLTERS, F. A., and ROBERTS, J. E. The effect of legumes, nitrogen fertilizer and row systems on the yield of corn on Miller clay soil. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1285,3 p. Oct.27,1950. 100 T31P
- 2551 REINAU, E. H. Kohlensäuredüngung, humus und maximalerträge. *Experientia* 6:396-399. Oct.15, 1950. 475 Ex7 English summary.
- 2552 RHIND, D., CHANDRARATNA, M. F., and ABEYRATNA, E. F. L. Seed placement of phosphates in paddy. 1. Preliminary experiments on the application of phosphate solutions to seed. *Trop.Agr. [Ceylon]* 105:98-108. July/Sept.1949. 26 T751
- 2553 RICHARD, F. Bodenkundliche bemerkungen zur holzartenwahl. *Schweiz. Z. f. Forstw.* 101:459-468. Sept.1950. 99.8 J82
- 2554 RICHER, A. C., and HOLBEN, F. J. Preliminary report of the yeast fermentative procedure for the estimation of available soil nitrogen and general fertility level. *Soil Sci. Soc. Amer. Proc.* 1949(14):223-225. 1950. 56.9 So3
- 2555 RÍOS B, B. El abonamiento y sanidad del algodónero. *Co. Admin. del Guano, Peru. B.* 26:14-20. Ref. Jan./Feb.1950. 57.9 C73B
- 2556 RIRIE, D. A., and MITCHELTREE, W. A. Gypsum improves wet soils. *Crops & Soils* 3:13,22. Oct.1950. 6 W55
- 2557 ROBINSON, J. B. D. The results of sugar-cane manurial trials with phosphate in Barbados. *Brit. West Indies Sugar Assoc. Proc. Mtg. Sugar Technol.* 1949:48-62. 65.9 B775
- 2558 RODRIGUEZ, A. Abonos y fertilizantes. *Cent. Nac. de Invest. de Cafe. Bibliot. B. Inform.* 1950:33-40. Aug.1950. 68.29 C332
- 2559 ROMANINI, A. Cover crops in vineyards. (In Italian.) *Avvenire Agr.* 58:219. Sept.1950. 16 Av9
- 2560 SCHUFFELEN, A. C. Rendom het bemestings-beleid [On the fertilizer problem]. *Wageningen,Veenman & Zonen,1949?* 18 p. 57.02 Sch82
- 2561 SEAY, W. A., ATTOE, O. J., and TRUOG, E. Correlation of the potassium content of alfalfa with that available in soils. *Soil Sci. Soc. Amer. Proc.* 1949(14):245-249. Ref. 1950. 56.9 So3
- 2562 SHIBATA, N. Studies on the effects of treatment of forest upon the soil conditions. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:119. Apr.25,1950. 99.8 N62
- 2563 SILVA S., J. M. Restituyendo la fertilidad a los suelos se cooperará al mejoramiento agrícola del país. *Manabí, Ecuador. Consorcio de Cent. Agr. B.* 12 (62):27-28. Apr./June 1950. 9.5 M31
- 2564 SIMMONEAU, P. En Afrique du Nord: la fumure de l'artichaut. *B. des Engrais* 22:106-108. June 1950. 57.8 B87 Also in *Rev. Agr. de l'Afrique du Nord* 48:670-674. Sept.15,1950. 80 R326
- 2565 SMITH, J. C., KAPP, L. C., and POTTS, R. C. The effects of fertilizer treatments upon yield and composition of wheat forage. *Soil Sci. Soc. Amer. Proc.* 1949(14):241-245. 1950. 56.9 So3
- 2566 SOUSA, A. T. DE. The problem of fertilizers. (In Portuguese.) *Frutas da Madeira* 10:33-34. July 1950. 286.83 F9422
- 2567 STIRLING, W. F. Perennial scabious prefers lime. *Grower [London]* 34:835,837. Oct.21,1950. 268.83 M34
- 2568 STRAUSS, A. Potasse et haricots. *Potasse* 24:154-155. Oct.1950. 57.8 P84
- 2569 TEMPANY, SIR H. Soil organic matter in the Tropics. (Sum.) *World Crops* 2:430-431. Oct.1950. 281.8 W892
- 2570 TENNBERG, F. Results of fertilizer experiments with sugar beets. (In Swedish.) *Forsk.- och Försöksresultat* 2(4):17-18. Apr.30,1950. 20 F77 In Finland.
- 2571 TOBLER, F. El abonado del ramio. *Euclides* 110:168-173. Apr.1950. 475 Eu2
- 2572 TOLMAN, B. Apply your fertilizer this fall. *U & I Cult.* 10(2):18-19. Aug.1950. 66.8 U12 For the sugar beet crop.
- 2573 TREVETT, M. F. Use of fertilizer for Maine blueberries. *Maine. Agr. Expt. Sta. Mimeog. Rpt.* 9,11 p. Feb.1950. 100 M28M
- 2574 TROGDON, W. O., and VOLK, G. W. The effect of nitrogenous fertilizers applied to soil on the formation of nitrates, the availability of phosphates, and soil reaction. *Soil Sci. Soc. Amer. Proc.* 1949(14):216-220. Ref. 1950. 56.9 So3
- 2575 TRUMP, F. From moss to dollars with organic matter. *Mich. Farmer* 214:269,290. Oct.21,1950. 6 M58
- 2576 TRUOG, E. Soil fertility: a major factor in conservation. *J. Soil & Water Conserv.* 5:180-185,194. Oct.1950. 56.8 J822
- 2577 VALENTIN, J. Étude de la fumure phosphopotassique dans les prairies de la région de l'ouest. *Potasse* 24:142-144. Oct.1950. 57.8 P84 France.
- 2578 VALLEJO, C. La cal puede influir en el aumento de la producción. *Mundo Agr.* 2(15):90-91. (To be cont.) Aug.1950. 9 M92
- 2579 VILSMER, E. Eine bessere düngungsfolge für das grünland. *Allgäuer Bauernbl.* 18:484. Aug.24,1950. 18 AL53
- 2580 VLASÍUK, P. A. Effectiveness of using granulated fertilizers for agricultural crops. (In Russian.) *Vsesoiúzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(7):13-19. 1950. 20 Ak1 Experiments with superphosphate chiefly.
- 2581 VORONIN, I., and LITVINENKO, A. Effectiveness of granulated fertilizers. (In Russian.) *Sovet. Agron.* 8(7):41-47. July 1950. 20 So84 Experiments with superphosphate.
- 2582 WALSH, T. A visit to Wisconsin. *Hoard's Dairyman* 95:702-703. Oct.10,1950. 44.8 H65 Soils and soil fertility.
- 2583 WARNER, R. M. The effect of fertilizer on yield and quality of Adriatics. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 4:18-19. 1950. 93.44 C122P
- 2584 WELCH, C. D., HALL, N. S., and NELSON, W. L. Utilization of fertilizer and soil phosphorus by soybeans. *Soil Sci. Soc. Amer. Proc.* 1949(14):231-235. 1950. 56.9 So3
- 2585 WILCOX, R. S. Results with fall fertilization. *Amer. Rose Mag.* 9(2):6-7. Sept./Oct.1950. 89 Am327A
- 2586 YOUNGBERG, C. T., and SCHOLZ, H. F. Relation of soil fertility and rate of growth of mixed oak stands in the driftless area of southwestern Wisconsin. *Soil Sci. Soc. Amer. Proc.* 1949(14):331-332. 1950. 56.9 So3
- 2587 ZANNONI, I. Importance of chemical fertilizers in grain production. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:221-222. Aug.15/30,1950. 16 C72



- 2588 ZHORIKOV, E. A. Increasing the effectiveness of mineral fertilizers by their application together with organic substances. (In Russian.) *Sovet. Agron.* 8(6):25-33. June 1950. 20 So84  
Experiments with cotton.

### Soil Tilth and Tillage

- 2589 ABDULLAH, M. Varietal response to tillage treatments in American cotton in the Punjab. (Abs.) *Co-op. & Mktg. Rev.* 4:242-243. July 1950. 280.28 C78243
- 2590 ANDERSON, E. J. The story of a plum tree; mulching brought a backward tree into vigorous growth. *Org. Gard.* 17(4):34-36. Oct. 1950. 56.8 Or3
- 2591 AVAEV, A. Care of shelterbelts. (In Russian.) *Tekhsociety MTS* 11(17/18):1-4. 1950. 58.8 T233  
Chiefly on tillage.
- 2592 AVAEV, M. G. Pravil'naia sistema obrabotki pochvy [Proper system of soil cultivation]. Moskva, Gos. Izd-vo Kul'turno-Prosvetitel'noi Lit-ry, 1950. 55 p. 53 Av1
- 2593 BATTISTELLI, E. Agronomical note. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:200-201. July 31, 1950. 16 C72  
Soil preparation for culture of grain following pasture.
- 2594 BIRCHER, R. The scene changes; mulch gardening is being practiced on a wide front. *Org. Gard.* 17(4):18-19. Oct. 1950. 56.8 Or3
- 2595 BRANZKA, A. Wenn der acker reden könnte! Hannoversche Land- u. Forstwirtschaft. Ztg. 103:573-574. June 17, 1950. 18 H194  
Tillage.
- 2596 CLUNE, R. M. A Mississippi farmer offers startling evidence that there's profit under the hardpan! *Ford Farming* 3(3):6-7. Summer 1950. 58.8 F752  
Subsoil plowing for water conservation.
- 2597 DAWSON, R. C. The use of woody materials on agricultural land: a review. U. S. Soil Conserv. Serv. SCS-TP-99, 14 p. Ref. Aug. 1950. 1.96 Ad6Tp  
Effect of wood waste mulches on the soil.
- 2598 EYSTER, W. H. Mulched gardens on the organic farm. *Org. Gard.* 17(4):20-23, 60. Oct. 1950. 56.8 Or3
- 2599 FOLMER, N. I. On the effectiveness and dates for disking stubble in Zaurale. (In Russian.) *Sovet. Agron.* 8(7):36-40. July 1950. 20 So84
- 2600 GALE, N. Grass clippings mulch. *Amer. Primrose. Soc. Q.* 8:9. July 1950. 96.575 Am3  
For primroses.
- 2601 GAUL, Das umgraben leicht gemacht. *Bad. Landwirt. Wchnbl.* 117:612. Sept. 9, 1950. 18 B142
- 2602 ISENBERG, F. M., and ODLAND, M. L. Comparative effects of various organic mulches and clean cultivation on yields of certain vegetable crops. *Pa. Agr. Expt. Sta. Prog. Rpt.* 35, 10 p. Ref. Aug. 1950. 100 P381P
- 2603 KLINTWORTH, H. Soil tilth. *Farming So. Africa* 25:216, 232. July 1950. 24 So842
- 2604 MAIS, H. Les travaux du sol. *Rev. Agr. de l'Afrique du Nord* 48:691-692. Sept. 22, 1950. 80 R326
- 2605 NELSON, A. L. Methods of tillage for winter wheat at Archer Field Station. *Wyo. Agr. Expt. Sta. B.* 300, 28 p. Aug. 1950. 100 W99
- 2606 PAK, K. P. Cultivation of Solonetz soils for shelterbelts on the left bank of the Volga. (In Russian.) *Les i Step'* 2(4):42-45. Apr. 1950. 99.8 L565
- 2607 POULSEN, E. F. Efectos de la labranza. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 332:7. Aug. 3, 1950. 9.9 G15B
- 2608 PREGO, A. J. Práctica del barbecho estival. *Argentina. Min. de Agr. Almanaque* 25:285-287. 1950. 9 Ag874
- 2609 SLATE, G. L. Sawdust mulch for daffodils. *Flower Grower* 37(11):34. Nov. 1950. 80 M72
- 2610 SMEDT, A. DE. Tillage in the summer. (In Dutch.) *Tuinbouwberichten* 14:104-105. July 15, 1950. 80 T817  
Orchards.
- 2611 SMITH, H. V. Casa Grande Valley has a new look; plowing 18 inches deep improved soil texture. *Prog. Agr. Ariz.* 2(3):5. Oct./Dec. 1950. 6 P9452
- 2612 STALLINGS, J. H. Keep crop residues on surface of ground. *Better Crops Plant Food* 34(8):9-16, 46-49. Ref. Oct. 1950. 6 B46

- 2613 STURM, J. J. Mr. Dryland Farmer: why fall plow? *Mont. Farmer-Stockman* 38:6. Sept. 1, 1950. 6 M764

- 2614 TALLARICO, L. A. La técnica del cultivo bajo cubierta o subsuperficial. *Argentina. Min. de Agr. Almanaque* 25:279-282. 1950. 9 Ag874

- 2615 TICO, L. Oportunidad de las labores. *Cult. Mod.* 33:253. July 1950. 15 C89  
Spain.

### Drainage, Irrigation, Water Supply, and Flood Control

- 2616 ALBRECHT, R. Pasture irrigation in the Cornbelt. *Prairie Farmer, Gen. Ed.* 122(18):1, 50. Sept. 16, 1950. 6 P883
- 2617 ALVAREZ MERINO, M. Peral de Arlanza quiere regar. *Agr. Burgales* 17(188):10-11. Aug. 1950. 15 Ag86
- 2618 ANDERSON, D. Progress of flood control and soil conservation in Iowa. *Iowa State Watersheds B.* 1 (3):11-12. July 1950. 290.8 Io9
- 2619 ANDERSON, T. C. You can put'er there with a pump; small private systems irrigate thousands of acres in Montana. *Mont. Farmer-Stockman* 1950:1, 3, 18. Aug. 1, 1950. 6 M764
- 2620 ARCHER, E. La remise en valeur du marais de Limagne. *France. Min. de l'Agr. B. Tech. d'Inform.* 51:463-470. July/Aug. 1950. 14 F844B
- 2621 ASGHAR, A. G. Problems of land reclamation. (Sum.) *Karachi Com.* 3(19):5-6. Apr. 15, 1950. 280.8 K14
- 2622 ASLYNG, H. C. Water conservation of crops and the water supply. (In Danish.) *Tidsskr. f. Landøkon* 1950:467-478. Sept. 1950. 11 T43
- 2623 AUDIN, L'aménagement hydraulique de la plaine de Battambang (Cambodge). (Sum.) *Agron. Trop.* 5:404. July/Aug. 1950. 26 Ag86  
Rice irrigation.
- 2624 BAIRD, R. W., and POTTER, W. D. Rates and amounts of runoff for the Blacklands of Texas. U. S. D. A. Tech. B. 1022, 23 p. July 1950. 1 Ag84Te
- 2625 BAKER, M. S. Over head irrigation. *Sugar J.* 13(5):50-52. Oct. 1950. 65.8 Su391
- 2626 BALCOM, R. B. Weeds, water robbers. *J. Soil & Water Conserv.* 5:165-168. Oct. 1950. 56.8 J822
- 2627 BARBA, L. DELLA. Irrigation of fruit trees. (In Italian.) *Agr. Ferrarese* 54:127-129. June 30, 1950. 16 Ag87
- 2628 BARLOWE, R. We need water rights for humid-area irrigators. *Farm Policy Forum* 3(9):17-19. Sept. 1950. 281.8 F2274
- 2629 BATTISTELLI, E. Water is supreme. (In Italian.) *Cron. Econ.* 88:7-8. Aug. 30, 1950. 280.8 C882  
Irrigation.
- 2630 BELFADEL, C. A. Equipment for artificial rainfall irrigation. (In Italian.) *Agr. del Polesine* 2:99. July 1950. 16 Ag8222
- 2631 BENSON, J. R. Bury the lining. *Reclam. Era* 36:185-186, 203. Oct. 1950. 156.8 R24  
Asphalt membrane for canal lining.
- 2632 BEVAN, L. E. W. Irrigation and conservation: solution of the food problem. *Rhodesian Farmer* 4(6):37. Aug. 16, 1950. 24 R347
- 2633 BLONDEL, L. La mesure du débit des "séguilas." *Fruits et Primeurs de l'Afrique du Nord. Éd. Marocaine* 20:277-279. Sept. 1950. 80 F9482
- 2634 BOCKS, S. J. Rainfall, runoff and power with special reference to Ceylon. *India. Cent. Bd. Irrig. J.* 7:194-198. Mar. 1950. 55.9 In222C
- 2635 BOER, T. A. DE. Restoration of inundated grasslands. *Internatl. Grassland Cong. Rpt.* 5:166-171. 1949. 60.19 In85R  
Includes discussion.
- 2636 BORGAGGI, C. Distribution and use of public water supplies with special reference to water for irrigation. (In Italian.) *Cent. di Studi per l'Ingegn. Agr. Mem. ed Atti* 5:27-29. May/June 1950. 58.9 C33  
Also in *B. dell'Agr.* 84(18):1. Sept. 22, 1950. 16 B87
- 2637 BRASSEUR, G. Le problème de l'eau au Sénégal. Les éléments de sa solution—Les conséquences à en attendre. *Rev. Internatl. de Bot. App. d'Agr. Trop.* 30:403-418. July/Aug. 1950. 26 R323  
Includes agricultural use.



- 2638 BROWN, R. H. American irrigation. In Smith, G., ed. Conservation of natural resources, p.105-128. Ref. New York, Wiley, 1950. 279.12 Sm5
- 2639 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1949 Colusa County irrigated pasture study. Berkeley? 1950? 15 p. 275.29 C12Cn
- Cost and productivity of pastures.
- 2640 CANDIOLI, P. Problems of Irrigation. (In Italian.) Informatore Agr. 6(15):6-7. Aug.1,1950. 281.8 In32
- 2641 CAROLUS, R. L., and SCHLEUSENER, P. E. Q. Would irrigation of acreage east of the Rocky Mountains increase output economically? A. Heavy fertilized crops respond to more water. Food Packer 31(12):46-48. Nov.1950. 286.83 C165
- 2642 CAVANILLAS RODRIGUEZ, L., and VALIAS GOMES, E. Avance de las experiencias sobre el riego de la remolacha azucarera. Spain. Inst. Nac. de Invest. Agron. B. 10(22):187-218. June 1950. 105.6 Sp14
- English summary.
- 2643 CHILDS, E. C., and COLLIS-GEORGE, N. The control of soil water. In Advances in agronomy, v.2, p.233-272. Ref. New York, Acad. Press, 1950. 30 Ad9
- 2644 CLAWSON, M. Use and control of water resources. In Timmons, J. F., and Murray, W. G., eds. Land problems and policies, p.135-157. Ref. Ames, Iowa State Col. Press, 1950. 282 T48
- 2645 CLERIN. Aménagements hydrauliques pour la riziculture au Soudan. (Sum.) Agron. Trop. 5:401-402. July/Aug.1950. 26 Ag86
- 2646 DAVIS, J. F., and HARRISON, C. M. Drainage ditchbank stabilization for organic soils. Soil Sci. Soc. Amer. Proc. 1949(14):283-285. 1950. 56.9 So3
- 2647 DEVOTO, B. Restoration in the Wasatch. Land 9:393-398. Autumn 1950. 279.8 L22
- Irrigation and flood control in Davis County, Utah.
- 2648 DONEEN, L. D. Classification of waters, quality is based on specific electrical conductance, boron and chloride concentration, and sodium percentage. Calif. Agr. [Calif. Sta.] 4(10):4,15. Oct.1950. 100 C12Cag
- 2649 DORON, P. H. Irrigation blueprint for Israel. Israel & Middle East 2:93-96. June/July 1950. 286.8 P172
- 2650 ELAM, F. L. Putting waste water to work! West. Livestock J. 28(54):36,68. Sept.15,1950. 6 F2278
- Construction of a dam to conserve and retain irrigation water.
- 2651 ENGINEERS JOINT COUNCIL. WATER POLICY PANEL. National water policy; a statement of desirable policy with respect to the conservation, development and use of the national water resources. New York? 1950. various pagings. 292 En3
- Contains sections on flood control, drainage, and irrigation.
- 2652 FESLER, J. W. Government and water resources; introduction. Amer. Polit. Sci. Rev. 44:575-576. Sept.1950. 280.8 Am33
- 2653 FOCARILE, C. Irrigation works in the deep valley of the Atri. (In Italian.) Agr. Ital. 1:374-380. Aug.1,1950. 16 Ag822
- 2654 FRENCH, N. H. Waterspreading, a good conservation measure. Natl. Wool. Grower 40(10):15. Oct. 1950. 45.8 N21N
- 2655 FRIEDMANN, G. Economic limits in lifting water for fertirrigation and irrigation with running water. (In Italian.) Acque Bonifiche Costr. (n.s.):19:155-158. Mar.1950. 54.8 Ac7
- 2656 FRIGGENS, P., and ANDERSON, R. The biggest dam job in the world. Farm J. 74(10):33-35, 91-92, 94. Oct.1950. 6 F2212
- Missouri Valley project.
- 2657 FRIGGENS, P., and ANDERSON, R. Missouri Valley—will we get our money's worth? Farm J. 74(11): 56-57, 91-94, 96-98. Nov.1950. 6 F2212
- Missouri Valley project.
- 2658 GAINZA BOTTERI, E. Estudio del sistema de riego en la zona este de la Esc. Nac. de Agricultura. Co. Admin. del Guano Peru. B. 25:86-97. June 1949. 57.9 C73B
- 2659 GENDRE. L'avenir de l'hydraulique en basse Cochinchine. (Sum.) Agron. Trop. 5:404. July/Aug.1950. 26 Ag86
- Drainage and irrigation.
- 2660 GOOR, G. A. W. VAN DE. Research on irrigating rice. (In Dutch.) Landbouw [Bogor] 22:195-222. Ref. May/June 1950. 22.5 L23
- English summary.
- 2661 HAMPTON, R. N., MURPHY, R. G., and HOFF, P. R. Potato irrigation; costs and practices in Suffolk County, New York, 1946. N. Y. (Cornell) Agr. Expt. Sta. B. 862,56 p. Sept.1950. 100 N48C
- 2662 HEALD, W. R., MOODIE, C. D., and LEAMER, R. W. Leaching and pre-emergence irrigation for sugar beets on saline soils. Wash. Agr. Expt. Sta. B. 519,16 p. Oct.1950. 100 W27E
- 2663 HENDRICKSON, A. H., and VEIHMEYER, F. J. Irrigation experiments with figs. Calif. Fig Inst. Proc. Annu. Res. Conf. 3:6. 1949. 93.44 C122P
- 2664 HERRMANN, H. Ist die durchführung von moorverbesserungen heute volkswirtschaftlich vertretbar? Allgäuer Bauernhl. 18:577-578. Sept.28,1950. 18 AL53
- 2665 HILL, K. W. Specialty crops in Canadian irrigation farming. Agr. Inst. Rev. 5(5):11-15. Sept. 1950. 7 Ag8
- 2666 HORSFALL, R. A. Planning Irrigation projects. Inst. Engr. Austral. J. 22:129-139. June 1950. 290.9 In75
- 2667 HOUSTON, J. M. Irrigation as a solution to agrarian problems in modern Spain. Geog. J. 116:55-63. Sept.1950. 472 G29
- 2668 HUFFMAN, R. E. What's wrong with public irrigation policy? Farm Policy Forum 3(9):15-17. Sept.1950. 281.8 F2274
- 2669 JONGE, L. J. A. DE. The water supply of grass and arable land. (In Dutch.) Drents Landtbl. 31 (28):10-11. July 15,1950. 12 D812
- 2670 KALISVAART, C. Influence of sub-irrigation on grassland. Internatl. Grassland Cong. Rpt. 5:47-52. 1949. 60.19 In85R
- Includes discussion.
- 2671 KARSTENS, G. A., and HARKER, D. H. Farm drainage in ten easy lessons. Purdue U. Agr. Ext. B. 269,16 p. 1950. 275.29 In2E
- 2672 KELLER, W., and PETERSON, M. L. Irrigated pastures. In Advances in agronomy, v.2, p.351-384. Ref. New York, Acad. Press, 1950. 30 Ad9
- 2673 KENDALL, R. G. Land drainage. London, Faber, 1950. 133 p. 54 K33L
- 2674 KINGSLAND, A. M., and RUTHERFORD, J. Coastal river improvement in relation to land utilisation in New South Wales; a study of agricultural conditions and possibilities of supplementary irrigation in the Warrell Creek District of the North Coast. Rev. Mktg. & Agr. Econ. (n.s.):18:125-139. June 1950. 286.8 N47M
- 2675 KRONE, P. R. New watering methods. United Florists News 5(7):3. Aug.1950. 80 Un33
- In greenhouses.
- 2676 LAPAZARAN BERISTAIN, J. El arte del buen regador. Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg. 9-50 H,12 p. May 1950. 15 H68
- 2677 LEPAWSKY, A. Water resources and American federalism. Amer. Polit. Sci. Rev. 44:631-649. Ref. Sept.1950. 280.8 Am33
- 2678 LÓPEZ LLANES, L. Irrigación con conservación. Agr. Lagunero 4(43):9-13. July/Aug.1950. 8 Ag824
- 2679 LUETKEMEIER, O. W., and KOHNKE, H. The influence of supplemental irrigation on corn yields in Indiana. Soil Sci. Soc. Amer. Proc. 1949(14):379-383. 1950. 56.9 So3
- 2680 LULL, H. W., and MUNNS, E. N. Effect of land use practices on ground water. J. Soil & Water Conserv. 5:169-179,196. Ref. Oct.1950. 56.8 J822
- 2681 MAASS, A. A. Congress and water resources. Amer. Polit. Sci. Rev. 44:576-593. Sept.1950. 280.8 Am33
- 2682 MCNULTY, G. Farmer engineered pumping project is miracle of Minidoka. Idaho Farmer 68(19):715, 739. Oct.5,1950. 6 G282
- Irrigation water with deep well pumping in Idaho.
- 2683 MCNULTY, G. Water almost worn out when it leaves Ogden Substation. Utah Farmer 70:151,157. Sept. 23,1950. 6 D45
- Orchard irrigation research at the Ogden Substation of the Utah State Agricultural College.
- 2684 MADRAS PRESIDENCY. PUBLIC WORKS DEPT. Administration report for the year 1948-49. II. Irrigation. (Report). Madras, 1950. 45 p. 55.9 In262



- 2685 MANN, D. H. Real irrigation control. *Utah Farmer* 70:235. Oct. 19, 1950. 6 D45  
Concrete spill for precision control of water entering irrigation furrows.
- 2686 MARCHESI, J. M. Descubrimiento de las aguas subterráneas por los métodos radioestésicos. *Siembra [Madrid]* 6(7):5-7. July 1950. 15 S11
- 2687 MARINET. Amélioration de la mise en valeur des berges du Mékong au Cambodge. (Sum.) *Agron. Trop.* 5:403. July/Aug. 1950. 26 Ag86  
Reclamation.
- 2688 MARTINEZ BULA, F. La técnica rural moderna. *Asoc. Rur. del Uruguay Rev.* 77(7):14-20. (Cont.) July 1950. 9.9 As5  
This installment deals with irrigation.
- 2689 MATALANA VENTURA, S. Pueblos bajo el agua. *Siembra [Madrid]* 6(7):12-13. July 1950. 15 S11  
Inundation of villages for dams.
- 2690 MATHRANI, M. P. The Gandak Project. *India Cent. Bd. Irrig. J.* 7:126-128. Mar. 1950. 55.9 In222C
- 2691 MAYFIELD, F. D. Forestry and flood control. *Forest Farmer* 10:5,13. Oct. 1950. 99.8 F7692
- 2692 MERLIN, M. Le problème de l'eau en Afrique Occidentale. *Rev. Internat. de Bot. Appl. d'Agr. Trop.* 30:397-402. July/Aug. 1950. 26 R323  
Includes agricultural use.
- 2693 MILLER, G. J. Reclamation of wet and over-flood lands. In Smith, G., ed. *Conservation of natural resources*, p. 145-159. New York, Wiley, 1950. 279.12 Sm5
- 2694 MONTANARI, V. Overhead irrigation equipment adopted by Franco Poggi. (In Italian.) *Agr. delle Venezie* 4:271-275. Aug. 1950. 16 Ag826
- 2695 MONTANARI, V. Reclamation of the Po Delta. (In Italian.) *Rass. Econ. del Polesine (n.s.)* 4:89-173. July/Aug. 1950. 280.8 R183
- 2696 MOREL, C. La réglementation économique des irrigations. *Génie Rur.* 43:296-300. Sept. 1950. 58.8 Au8  
France.
- 2697 OPPENHEIMER, J. Examination of water requirements of summer tomatoes. *Hassadeh* 30:550-552. July 1950. 26 H27  
In Hebrew.
- 2698 PALMER, P. Dams for irrigation. *West. Livestock J.* 28(54):43,52,55-56. Sept. 15, 1950. 6 F2278
- 2699 PARKER, J. S. The reclamation of tidal marshlands [Canada]. *Agr. Inst. Rev.* 5(5):39-41. Sept. 1950. 7 Ag8
- 2700 PASTORINI, F. M. Technique and economy in the problem of irrigation. (In Italian.) *Cron. Econ.* 85/86:15-17. July 15/31, 1950. 280.8 C882  
Italy.
- 2701 PIPER, W. E. Irrigation assures high quality; extensive water systems in use on New England farms. *New England Grocery & Mkt. Mag.* 17(11):31-32. Sept. 1950. 286.83 N44A
- 2702 POPPINS, A. J. American practice for lining irrigation canals. II. *Commonwealth Engin.* 37:500-504. July 1, 1950. 290.8 C73
- 2703 RAGAZZI, G. The Zuyder Zee. (In Italian.) *Agr. Ferrarese* 54:130-133. June 30, 1950. 16 Ag87
- 2704 RAVANZO, R. R. Water resource development in the Philippines. *Reclam. Era* 36:181-182. Sept. 1950. 156.84 R24
- 2705 REBOUR, H. L'étude du sol des périmètres irrigables. *Colon Franç. de Tunisie* 60(2165):1-2. Sept. 30, 1950. 24 C712
- 2706 REGER, J. S., and others. Techniques for drainage investigations in Coachella Valley, Calif. *Agr. Engin.* 31:559-564. Nov. 1950. 58.8 Ag83  
A. F. Pillsbury, R. C. Reeve, and R. K. Petersen, joint authors.
- 2707 REVERT. Le problème de l'eau à la Martinique. (Sum.) *Agron. Trop.* 5:402. July/Aug. 1950. 26 Ag86  
Includes the problem of erosion.
- 2708 RIABTSEV, I. Retention of snow and thawing water on the fields. (In Russian.) *Lesn. Khoz.* 3(2):25-27. Feb. 1950. 99.8 L562
- 2709 RICHARDS, B. D. Flood estimation and control. Ed. 2, rev. London, Chapman & Hall, 1950. 173 p. 290 R39
- 2710 RIESTER, W. F. Overhead irrigation. *World Crops* 2:438-441. Oct. 1950. 281.8 W892
- 2711 RIVEROS, E. El riego de los viñedos. *Vinos, Vinas y Frutas* 45:502-504. June 1950. 9 Ag89
- 2712 RODRIGUEZ L., A. Mexico's irrigation possibilities along the northeastern zone bordering the State of Texas. *Tex. U. Inst. Latin-Amer. Studies* 9:128-156. 1950. 280 T31
- 2713 ROMANINI, A. Irrigation and nitrogen forcing of corn. (In Italian.) *Avvenire Agr.* 58:184-185. Aug. 1950. 16 Av9
- 2714 ROSEAU, E. Note sur l'irrigation de la Grande Terre. (Sum.) *Agron. Trop.* 5:402-403. July/Aug. 1950. 26 Ag86
- 2715 SCHIAVETTI, V. Notes on relining the canals tested in the region of the Villorosi Canad. (In Italian.) *Cent. di Studi per l'Ingegn. Agr. Mem. ed Atti* 5:25-27. May/June 1950. 58.9 C33
- 2716 SLATER, W. R., CURTIS, H. G., and OLIVER, P. A. Dikes and basins protect Coachella Canal against flash floods. *Civil Engin.* 20:719-723. Nov. 1950. 290.8 C49
- 2717 SMITH, G. Floods and flood control. In Smith, G., ed. *Conservation of natural resources*, p. 294-322. Ref. New York, Wiley, 1950. 279.12 Sm5
- 2718 STACEY, W. A. Treated wood screens in relief wells for river levees. *Wood Preserv. News* 28:92-94, 103. Aug. 1950. 300.8 W853
- 2719 THOMAS, SIR R. Land drainage & reclamation. (Sum.) *Karachi Com.* 3(19):7-8. Apr. 15, 1950. 280.8 K14
- 2720 THORNE, D. W., and THORNE, J. P. Quality of water in the Sevier changes from upper to lower basins; low quality of lower Sevier River waters requires special irrigation methods to get high crop yields. *Farm & Home Sci. [Utah Sta.]* 11:45, 54-56. Sept. 1950. 100 UtlF
- 2721 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Methods of analysis used in the Rubidoux Laboratory, Riverside, California, by L. V. Wilcox and J. T. Hatcher. Ed. 6, rev. *Riverside? Calif.*, 1950. 67 p. 1.965 S2M56  
Water, soil, and plant analysis.
- 2722 U. S. GEOLOGICAL SURVEY. Surface water supply of Hawaii, 1946-47. U. S. Geol. Survey. Water-Supply Paper 1095, 130 p. 1950. 407 G29W
- 2723 VASAVADA, A. A. The life giving water. *Poona Agr. Col. Mag.* 41:69-73. Aug. 1950. 22 P79  
Includes irrigation.
- 2724 VASISHTH, R. P. Hirakud Dam Project. *India. Cent. Bd. Irrig. J.* 7:128-132. Mar. 1950. 55.9 In222C
- 2725 VEIHMEYER, F. J. Soil moisture, runoff, erosion; long-term comparative studies on vegetated and denuded plots in typical brush areas of California. *Calif. Agr. [Calif. Sta.]* 4(10):8-9, 13. Oct. 1950. 100 C12Cag
- 2726 VELICHKO, E. B. Kolkhoznyi oroshayemyi uchastok [Collective farm irrigated plots]. *Krasnodar, Kraevoe Kn-vo*, 1950. 110 p. 55 V54
- 2727 VICTORIA. STATE RIVERS AND WATER SUPPLY COMMISSION. The forty-fourth annual report, 1948-49. Melbourne, 1950. 127 p. 192.9 V66  
Includes irrigation and flood control.
- 2728 VILLIERS, P. R. DE. Management of the Union's water resources. (In Afrikaans.) *Primary Prod. [Cape Town]* 25(34):3, 7, 13. Aug. 25, 1950. 281.8 P93
- 2729 WALKER, K. M. Irrigation on wheels. *West. Livestock J.* 28(54):39, 62. Sept. 15, 1950. 6 F2278  
Sprinkler systems.
- 2730 WARE, L. M., and JOHNSON, W. A. Value of irrigation with different fertility treatments for vegetable crops. *Ala. Agr. Expt. Sta. B.* 276, 69 p. Ref. June 1950. 100 AL1S
- 2731 WEISS, A. Construction technique of passing floods over earth dams. *Amer. Soc. Civil Engin. Proc.* 76(40), 16 p. Oct. 1950. 290.9 Am3Ps
- 2732 WHITE, G. F. National executive organization for water resources. *Amer. Polit. Sci. Rev.* 44:593-607. Sept. 1950. 280.8 Am33
- 2733 WILCOX, J. C. Sprinkler irrigation experience in British Columbia orchards. *Sci. Agr.* 30:418-427. Oct. 1950. 7 Sci2
- 2734 WOLFE, J. W. A pumping manual for irrigation and drainage. *Oreg. Agr. Expt. Sta. B.* 481, 39 p. Aug. 1950. 100 Or3
- 2735 ZAGORODNEV, S. F. Prompt utilization of irrigated lands for vineyards. (In Russian.) *Vinodel. i Vinograd. SSSR.* 55-56. July 1950. 95.8 V77



- 2736 ZAMARIN, E. A. A mountain dam. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(7):3-12. 1950. 20 Ak1  
Engineering aspects.
- Erosion and Erosion Control**
- 2737 ALENCAR, F. M. A. DE. Soil conservation and revegetation. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 25:170-176,248-257. Ref. Mar.-Apr. 1950. 68.29 Sa63  
Brazil.
- 2738 BASU, J. K., and SREENIVAS, L. Role of vegetation in soil conservation. II. Strip cropping. Poona Agr. Col. Mag. 41:90-93. Aug.1950. 22 P79
- 2739 BENNETT, H. H. Everybody shares soil and water conservation awards. Washington, U. S. Soil Conserv. Serv., 1950. 11 p. 1.96 Ad62  
Address, Denver Post-KLZ Soil Conservation Recognition Banquet, Julesburg, Colo., Sept. 25, 1950.
- 2740 BENNETT, H. H. Looking ahead in conservation. Washington, U. S. Soil Conserv. Serv., 1950. 6 p. 1.96 Ad62  
Address, annual meeting, Friends of the Land, New York, Sept. 28-29, 1950.
- 2741 BENNETT, H. H. Our American land; the story of its abuse and its conservation. U. S. D. A. Misc. P. 596, rev., 32 p. June 1950. 1 Ag84M
- 2742 BENNETT, H. H. Soil and wildlife. Washington, U. S. Soil Conserv. Serv., 1950. 9 p. 1.96 Ad62  
Address, Annual Convention Southeastern Association of Game and Fish Commissioners Conference, Richmond, Oct. 16, 1950.
- 2743 BENNETT, H. H. Soil conservation districts' important responsibilities. Washington, U. S. Soil Conserv. Serv., 1950. 12 p. 1.96 Ad62  
Address at meeting Northeast Area Soil Conservation District Supervisors and Directors, Philadelphia, Oct. 5, 1950.
- 2744 BENNETT, H. H. Technical skills for soil and water conservation. Sci. Mon. 71:248-257. Oct.1950. 470 Sci23
- 2745 BENNETT, H. H. Use and conservation of our farm lands. In Timmons, J. F., and Murray, W. G., eds. Land problems and policies, p.83-104. Ref. Ames, Iowa State Col. Press, 1950. 282 T48  
Soil erosion and conservation.
- 2746 BENNETT, H. H. The watershed approach to soil and water conservation. Washington, U. S. Soil Conserv. Serv., 1950. 11 p. 1.96 Ad62  
Address, Watershed Development Conference, Charleston, W. Va., Oct. 19, 1950.
- 2747 BENNETT, H. H. Worldwide influence of American soil conservation program. Washington, U. S. Soil Conserv. Serv., 1950. 12 p. 1.96 Ad62  
Address at annual meeting, Soil Conservation Society of America, Detroit, Oct. 27, 1950.
- 2748 BLISS, R. K. Why save Iowa's soil? Iowa State Watersheds B. 1(4):4-6;(5):10-12. Aug.-Sept.1950. 290.8 Io9
- 2749 BRADFIELD, R. Soil conservation. (Sum.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:228-231. 1950. 4 As7
- 2750 BROWN, C. B. Sediment steals water storage. Washington, U. S. Soil Conserv. Serv., 1950. 8 p. 1.96 Ad6Br  
Paper presented at meeting of the Soil Conservation Society of America, Detroit, Oct. 28, 1950.
- 2751 BRUNE, G. M. Notes on soils, erosion, and sediment production in the Southwest Pacific Area. Soil Sci. Soc. Amer. Proc. 1949(14):395-398. 1950. 56.9 So3
- 2752 CHAPMAN, P. W., FITCH, F. W., JR., and VEATCH, C. F., comps. and eds. Conserving soil resources; a guide to better living. Atlanta, Smith, 1950. 355 p. Ref. 56.7 C36
- 2753 CHEKMELEVY, E. M. The Great Plan [to change nature] in action. (In Russian.) Molod. Kolkhoz. 17(6):9. June 1950. 110 M73
- 2754 CHURAEV, V. M. Stalin Plan to change nature will be fulfilled on time. (In Russian.) Les i Step' 2(4):7-12. Apr.1950. 99.8 L565
- 2755 CLAYTON, E. S. State wide soil conservation activities. Agr. Bur. N. S. Wales. State Conf. Hawkesbury Agr. Col. 26:18-20. 1950. 23 Ag82S
- 2756 CONNOLLY, E. G. A review of selected research studies in the U.S.A. IV. N. S. Wales. Soil Conserv. Serv. J. 6:139-146. July 1950. 56.9 N472
- 2757 COSTIN, A. B. Mass movements of the soil surface with special reference to the Monaro region of New South Wales. II. N. S. Wales. Soil Conserv. Serv. J. 6:123-132. July 1950. 56.9 N472
- 2758 CRITZ, J. E. He pioneered soil-districts legislation. Soil Conserv. 16:87-89. Nov.1950. 1.6 So3S
- 2759 DAVIS, J. C. Bank leads in restoring soil vitality. Banking 43(5):68,108-109. Nov.1950. 284.8 Am3  
Soil conservation in Ashland County, Ohio.
- 2760 DAVIS, W. S., JR. Cut out absurdities for practical conservation. Sheep & Goat Raiser 30(12):38-40. Sept.1950. 45.8 Sh3  
Excerpts from address.
- 2761 DAVIS, W. S., JR. The future of districts. Land 9:405-407. Autumn 1950. 279.8 L22  
Soil Conservation Districts.
- 2762 DIAZ BARRIGA, J. La conservación del suelo y la nutrición popular. Medicina Rev. Mex. 30(sup.):107-108. July 25, 1950. 448.8 M4693  
Use of tree crops for erosion control.
- 2763 ELAGIN, I. N. Agricultural utilization of gullies and ravines. (In Russian.) Les i Step' 2(5):89-91. May 1950. 99.8 L565  
Shelterbelt planting by Chervona Armia Collective Farm to control erosion.
- 2764 ELLISON, W. D. Swater. Land 9:331-335. Autumn 1950. 279.8 L22  
Raindrop erosion.
- 2765 FELTON, R. A. Big Lick's new gospel of the soil. Prog. Farmer, Tex. Ed. 65(10):57-58. Oct.1950. 6 T311  
Soil conservation and economic recovery, Big Lick, Tennessee.
- 2766 FRANZ, H. Die bedeutung des windschutzes für den ertrag der almfächen. Kärntner Bauer 100:263-265. Aug.10, 1950. 19 K14  
A study of wind erosion.
- 2767 GARD, L. E., and VAN DOREN, C. A. Soil losses as affected by cover, rainfall, and slope. Soil Sci. Soc. Amer. Proc. 1949(14):374-378. 1950. 56.9 So3
- 2768 GEE, C. W. The story of a typical soil conservationist. Better Farming Methods 22(10):14-15, 44-45. Oct.1950. 58.8 B46
- 2769 GENNARI, G. The dying mountain. (In Italian.) Agr. Romagn. 1950(19):1. Oct.5, 1950. 16 Ag828  
Deforestation and erosion.
- 2770 GIRALDO, J. E. La granja agrícola de Pampanito y los trabajos de conservación de suelos de tajó en el Estado Trujillo. I-II. Agr. Venezol. 15(142):37-41; (143):37-42. May-June 1950. 9.95 Ag8
- 2771 GLOVER, H. La erosión amenaza la existencia humana. Rev. Agr. y Ganad. 12(125):7-12. June 1950. 9.4 R327
- 2772 GORRIE, R. M. Farm forestry in the West Punjab. Brit. Agr. B. 3(9):33-37. Spring 1950. 10 B776  
Soil erosion control and land reclamation.
- 2773 HEADY, E. O. Conservation—and future food needs. Farm Policy Forum 3(11):18-20. Nov.1950. 281.8 F2274  
Soil conservation and management.
- 2774 HENDRICKSON, B. H. Soil conservation research in the Southeast. Soil Conserv. 16:80-83. Nov. 1950. 1.6 So3S
- 2775 HENIN, S. L'érosion éolienne. France. Min. de l'Agr. B. Tech. d'Inform. 51:509-516. July/Aug.1950. 14 F844B
- 2776 HERRINGTON, R. E. Grasslands and control of erosion. N. S. Wales. Soil Conserv. Serv. J. 6:147-151. July 1950. 56.9 N472
- 2777 HICKENLOOPER, B. B. Soil conservation and flood control. Iowa State Watersheds B. 1(3):4. July 1950. 290.8 Io9
- 2778 HOFF, G., and WILSON, J. G. If you like your soil—keep it! You can reduce weather damage with erosion-control farming. Flying Plowman 4(6):1,3. June 1950. 58.8 F67
- 2779 HYNAM, C. A. S., and SLACK, N. S. Soil and water conservation in Antigua. Brit. West Indies Sugar Assoc. Proc. Mtg. Sugar Technol. 1949:84-89. 65.9 B776  
Includes discussion.



- 2780 IPUCHA AGUERRE, J. El cultivo en contorno, práctica eficaz contra la erosión. Argentina. Min. de Agr. Almanaque 25:69-72. 1950. 9 Ag874
- 2781 JACKS, G. V. Soil erosion and conservation. Farming [Norwich] 4:275-277. Sept. 1950. 10 F2236
- 2782 JOBBERNS, G. The South Island (New Zealand) high country. Austral. & New Zeal. Assoc. Advn. Sci. Rpt. 27:154-159. 1949. 514 Au73  
Chiefly on conservation of soil and natural resources.
- 2783 JOHNSON, P. A. The Boyer Valley. Iowa State Watersheds B. 1(4):8-9. Aug. 1950. 290.8 Io9  
Soil conservation.
- 2784 KAPP, K. W. The social costs of private enterprise. Cambridge, Harvard U. Press, 1950. 287 p. 280 K1435  
Includes a chapter on soil erosion and depletion.
- 2785 KRUGER, J. C. Soil erosion. (In Afrikaans.) Landbouweekblad 32(1624):39. Aug. 30, 1950. 24 L232
- 2786 LADEWIG, J. E., and SKINNER, A. F. Soil conservation in Queensland. 5. Contour banks. Queensland Agr. J. 71:63-78. Aug. 1950. 23 Q33
- 2787 LEE, H. A. La erosión del suelo destruye la riqueza nacional. Asoc. Gen. de Agr. B. 277(Sup. Agr. 2(39):1,5.) Aug. 30, 1950. 8 As52  
Guatemala.
- 2788 LEMOS, P. Problems of soil conservation. (In Portuguese.) Seleç. Agr. 5(52):33-36. Aug. 1950. 9.2 Se4
- 2789 MCCORMACK, A. V. It's time to build up, not use up our soil resources. Amer. Plant Food Council. J. 4(3):2-4. July/Sept. 1950. 57.8 P692
- 2790 MAHER, C. Soil conservation in Kenya Colony. I. Factors affecting erosion, soil characteristics and methods of conservation. Empire J. Expt. Agr. 18: 137-149. Ref. July 1950. 10 Em7
- 2791 MELLO, E. M. Importance of organic matter in soil conservation. (In Portuguese.) Rio Grande do Sul. Sec. da Agr., Indús. e Com. Inform. Rur. 3(11):7-8. May 1950. 9.2 R4741
- 2792 MICHELMORE, R. J. Preventing erosion with ordinary farm implements and commonsense. Adelaide Stock & Sta. J. 45(2336):5,41. Aug. 23, 1950. 23 Ad3
- 2793 MOOKERJEA, D. Anti soil erosion experiment at Arabari—West Bengal. India. Cent. Bd. Irrig. J. 7:191-193. Mar. 1950. 55.9 In222C
- 2794 MOREL, H. Comment développer la lutte contre l'érosion. France. Min. de l'Agr. B. Tech. d'Inform. 51:527-531. Ref. July/Aug. 1950. 14 F844B
- 2795 MUNDIE, E. W. What is a soil conservation district? South. Planter 111(10):32,39. Oct. 1950. 6 So89
- 2796 MUSSER, R. H. Jones Creek pays off. Soil Conserv. 16:75-78. Nov. 1950. 1.6 So35  
Results of soil conservation treatment, Jones Creek watershed, Iowa.
- 2797 NICHOLS, A. Dateline: Liberal, Kansas. Land 9:398-401. Autumn 1950. 279.8 L22  
Soil conservation in Kansas.
- 2798 NIXON, W. M. With better equipment and more know-how erosion control optimism high. Sowest. Crop & Stock 4(9):18-19. Sept. 1950. 6 So8942
- 2799 POSTREMOV, G. University of correspondence courses for soil conservationists. (In Russian.) Les i Step' 2(4):84-85. Apr. 1950. 99.8 L565
- 2800 PUYANA VALDERRAMA, A. Erosion. Rev. Nac. de Agr. [Bogotá] 44(543):47-48. July 1950. 9.4 R32
- 2801 RENARD. Conservation des sols et humus. (Sum.) Agron. Trop. 5:404-405. July/Aug. 1950. 26 Ag86  
French Sudan.
- 2802 RENEUE, H. Les travaux de défense contre l'érosion en France. France. Min. de l'Agr. B. Tech. d'Inform. 51:517-526. July/Aug. 1950. 14 F844B
- 2803 RHIND, D. The effect of basin listing on run-off and erosion in the dry zone of Burma. Trop. Agr. [Ceylon] 105:176-178. Oct./Dec. 1949. 26 T751
- 2804 ROA, E. Las zanjas y las hierbas de las zanjas. Agronomía [Habana] (ser. 2) 10(8):22. Aug. 1950. 8 C893
- 2805 ROCKIE, W. A. Soil conservation. In Smith, G., ed. Conservation of natural resources, p. 63-87. Ref. New York, Wiley, 1950. 279.12 Sm5
- 2806 RUMMELL, L. L. Research sets guideposts for soil conservation. Ohio Farmer 206(5):3,26. Sept. 2, 1950. 6 Oh3
- 2807 RUSSELL, J. S. A soil conservation programme at Saddleworth. So. Austral. Dept. Agr. J. 53: 527-535. July 1950. 23 So84
- 2808 SAMOL'IANOV, I. R. Achievements in the second spring [of their 3 year plan] of the Tikhorets transformers of nature [collective farmers]. (In Russian.) Les i Step' 2(6):53-56. June 1950. 99.8 L565
- 2809 SLOPE-HETTINGER SOIL CONSERVATION DISTRICT, NORTH DAKOTA. Conservation farming in the Slope-Hettinger Soil Conservation District, North Dakota. U. S. D. A. PA 54,24 p. June 1950. 1 Ag84Pro
- 2810 SMITH, L. W. Soil conservation in the Riverina. N. S. Wales. Soil Conserv. Serv. J. 6:113-122. July 1950. 56.9 N472
- 2811 SMOLIK, L. The influence of the contour line making the land surface upon the water content of the soil. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:540-544. 1950. 19.5 C332C  
English summary.
- 2812 STALLINGS, J. H. Erosion of topsoil reduces productivity. U. S. Soil Conserv. Serv. SCS-TP-98,31 p. Ref. Aug. 1950. 1.96 Ad6Tp
- 2813 STAPLETON, C. C. The role of trees in soil conservation. Farmer's Wk. [Bloemfontein] 79:10-11,13. Aug. 9, 1950. 24 F225
- 2814 STEELE, J. G., and HOCKENSMITH, R. D. Work of the soil scientists in soil conservation operations. Soil Sci. Soc. Amer. Proc. 1949(14):323-327. 1950. 56.9 So3
- 2815 STEPANOV, L. I. Down the stream of the Dniepr. (In Russian.) Les i Step' 2(6):56-57. June 1950. 99.8 L565  
Afforestation of sandy soils.
- 2816 STEWART, J. Erosion control in the Bingara-Gravesend district. N. S. Wales. Soil Conserv. Serv. J. 6:133-138. July 1950. 56.9 N472
- 2817 SULZLÉE, C. Les méthodes actuelles concernant la protection contre l'érosion et contre les avalanches en montagne. Soc. Bot. de France. B. 96:52-54. 1949. 451 F84B
- 2818 TAKHTAULOV, S. Lycium barbarum as a gully reinforcement. (In Russian.) Les i Step' 2(6):72-73. June 1950. 99.8 L565
- 2819 THORNTON, D. A soil conservation study in the United States of America. Tanganyika Dept. Agr. Pam. 46,44 p. Dar es Salaam, 1950. 24 T15P
- 2820 TURNER, R. C., and MACLEAN, A. J. A rapid method of estimating soil in run-off suspensions. Sci. Agr. 30:398-401. Sept. 1950. 7 Sci2
- 2821 UHLIR, P. The influence of the structure of undergrowth on microclimate, with a view to wind effect. (The methods of measuring.). (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:419-448. Ref. 1950. 19.5 C332C  
English summary.
- 2822 U. S. S. R. SOVET MINISTROV. On progress in fulfilling the decree of the Council of Ministers of U. S. S. R. and of the Central Committee of the Communist Party of October 28, 1948 "On the plan for shelterbelts, introduction of grass-field crop rotations, construction of ponds and reservoirs for securing high and stable harvests in the steppe and forest-steppe districts of European U. S. S. R." (In Russian.) Les i Step' 2(5):3-14. May 1950. 99.8 L565  
Also in Lesn. Khoz. 3(5):5-14. May 1950. 99.8 L562
- 2823 U. S. PRODUCTION AND MARKETING ADMIN. Partners in conservation. U. S. D. A. PA-113,2 p. June 1950. 1 Ag84Pro  
Agricultural Conservation Program.
- 2824 U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range lands in the Molokai Soil Conservation District, by N. K. Carlson and W. E. Sykes. Portland, Oreg., 1950. 6 p. 1.9609 R16222
- 2825 U. S. SOIL CONSERVATION SERV. SOUTH-WEST REGION. Annual report, 1949/50. Albuquerque, 1950. 20 p. 1.9608 An7
- 2826 VON STIEGLITZ, C. R. Contour furrowing of claypans. Queensland Agr. J. 71:111-116. Aug. 1950. 23 Q33
- 2827 ZEMLIANITSKI, L. T. Experiment in developing tree belts on Solonchek and saline soils in the South-East [U. S. S. R.]. (In Russian.) Les i Step' 2(6):58-65. June 1950. 99.8 L565



Sanitation

- 2828 BUTKEVICH, V. V. Sterilizatsiya pochvy [Sterilization of the soil]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 118 p. 56.5 B97
- 2829 CHADWICK, T. A. Shell's new soil fumigant. Grower [Adelaide] 5:41-42. July 1950. 80 G912  
To control nematodes.  
Also in Fruit World & Mkt. Grower 51(8):41. Aug. 10, 1950. 80 F948
- 2930 LEIBUNDGUT, H. Bodensterilisation im forstgartenbetrieb. Schweiz. Z. f. Forstw. 101:437-453. Ref. Sept. 1950. 99.8 J82
- 2931 PROCTER, C. Deep steaming is worthwhile. Grower [London] 34:829. Oct. 21, 1950. 268.83 M34  
Greenhouses.
- 2932 PROCTER, C. Early steaming saves little cash. Grower [London] 34:563. Sept. 16, 1950. 268.83 M34  
Soil sterilization.
- 2933 REA, H. E., WOLTERS, F. A., and ROBERTS, J. E. Borascu as a soil sterilant on Miller clay soil. Tex. Agr. Expt. Sta. Prog. Rpt. 1268, 5 p. Sept. 1, 1950. 100 T31P
- 2834 REINKING, O. A., and NEWHALL, A. G. A soil fumigation test for pea root rot control. Phytopathology 40:879-882. Oct. 1950. 464.8 P56  
Fusarium solani maritil.
- 2935 SCHÜTZ, G. Bodenentseuchung im garten. Gart.-Z. Illus. Flora 73:95-96. Aug. 1950. 80 G1991  
Soil sanitation.

MATERIALS FOR SOIL IMPROVEMENT

- 2936 BEAUCHAMP, C. E. La miel final como fertilizante. Inst. Cubano de Suelos y Abonos. Inform. Téc. B. 8:1133-1150. Aug. 1950. 65.9 H29
- 2937 INNES, R. F. Some preliminary observations on the agricultural utilization of dunder. Brit. West Indies Sugar Assoc. Proc. Mtg. Sugar Technol. 1949:90-95. 65.9 B775  
Includes discussion.
- 2938 OGG, SIR W. G. New knowledge about fertilizers. Times Survey Brit. Agr. 1949:6-7. Dec. 1949. 10 T48

Primary Materials

- 2939 BRIDGER, G. L., and BRUNSTING, E. H. Acidulation characteristics of certain western phosphate rocks. (Abs.) Amer. Fert. & Allied Chem. 113(7):10. Sept. 30, 1950. 57.8 Am3
- 2940 BRIDGER, G. L., and ANDERSON, J. W. Fertilizer by hydrolysis and ammoniation of cellulosic materials. (Abs.) Amer. Fert. & Allied Chem. 113(7):9. Sept. 30, 1950. 57.8 Am3  
Nitrogenous fertilizers.
- 2941 COMMERCIAL fertilizer year book, 1950. Atlanta, 1950. 160 p. 57.8 C73Y
- 2942 KONDO, Y. Ryuan (Ammonium sulphate). Tokyo, Nippon Hyoron-sha, 1950. 293 p. 57.23 K83
- 2943 MOULTON, R. W., GREAVES, G. S., and HEBNER, P. G. Phosphate fertilizer by the fusion of phosphate rock and olivine. (Abs.) Amer. Fert. & Allied Chem. 113(7):10. Sept. 30, 1950. 57.8 Am3
- 2944 RODALE, R. Grand news about potash rock; potash rock found to be a satisfactory source of potassium for crop plants. Org. Gard. 17(4):52-53. Oct. 1950. 56.8 Or3
- 2945 VERGUES, J., and PATRY, M. La fabrication de l'ammoniaque à partir du gaz naturel de Saint-Marcet. Chim. & Indus. [Paris] 63:487-493. May 1950. 383 C42
- 2946 WARING, C. E. Milestones of the mid-century in fertilizer chemistry. II. Agr. Chem. 5(10):47, 74. Oct. 1950. 381 Ag8  
Discusses radioisotope tracers.

Secondary and Minor Element Materials

- 2947 ØDELIEN, M. Deficiencies and injurious effects of minor elements as related to soil conditions. Internatl. Grassland Cong. Rpt. 5:53-60. 1949. 60.19 In85R  
Includes discussion.
- 2948 SEITZER, Die spurenelemente im obstbau. Obstbau 69:123. Aug. 1, 1950. 80 Ob73

Mixed Fertilizers and Fertilizer Technology

- 2949 CLOANINGER, B. D. Inspection and analysis of commercial fertilizers. S. C. Agr. Expt. Sta. B. 379, 31 p. Nov. 1949. 100 So8
- 2950 COSTA-RODRIGUES, L. Commercial fertilizers. (In Portuguese.) Vida Agr. [Lisboa] 13(78):1-2. July/Aug. 1950. 15.5 V66
- 2951 INDIANA. AGRICULTURAL EXPERIMENT STATION. Inspection of commercial fertilizers. Ind. Agr. Expt. Sta. C. 361, 48 p. Apr. 1950. 100 In2P
- 2952 KLYCHNIKOV, V. M. Experiment in the preparation of granulated organic-mineral fertilizers. (In Russian.) Sovet. Agron 8(6):17-24. June 1950. 20 So84
- 2953 REILLY, F. J. Does the organic farming cult have a case against chemical fertilizers? Agr. Chem. 5(10):29-31, 70-71. Oct. 1950. 381 Ag8
- 2954 REYES, G. M. Organic fertilizer in agriculture. Agr. & Indus. Life 12(8):18, 39. Aug. 1950. 25 Ag8
- 2955 SAUCHELLI, V. Influence of granule size on crop response. Amer. Fert. & Allied Chem. 113(6):8-9, 30(7):11-12, 26. Sept. 16-30, 1950. 57.8 Am3

Fertilizer Statistics

- 2956 BARCELLOS, H. A. Superphosphate in France. (In Portuguese.) Lav. Arroz. 4(43):25-26. July 1950. 59.8 L39
- 2957 BROOK, A. T. Developing the paper sack; fruits of five years' study by the fertilizer industry. Chem. Age [London] 63:536-538. Oct. 14, 1950. 382 C427
- 2958 CHILEAN NITRATE EDUCATIONAL BUR. Industrial and economic progress in Chile. New York, 1950. 70 p. 57.23 C432I  
Nitrate fertilizers.
- 2959 KELLOGG, C. E. Notes from European fields. Com. Fert. 81(4):20-22, 54-56. Oct. 1950. 57.8 C73
- 2960 MCCALL, W. W. Fertilizer quality protected; manufacturers and state laws assure farmer value. Fla. Grower 58(10):13, 29. Oct. 1950. 80 F6622
- 2961 NAKAMURA, K. Hiryo (Fertilizers). Tokyo, Diamond Sha, 1950. 271 p. (Daiyamondo Sangyo Zensho, 15) 57 N14
- 2962 NELSON, E. S. A survey of the fertilizer supply situation. West. Grower & Shipper 21(12):222, 226, 228, 246. Nov. 1950. 280.38 W52
- 2963 NIKLAS. Steigerung des düngeraufwandes! Agrarpolit. Presse-Korresp. 3:173-175. Sept. 10, 1950. 281.8 Ag892  
Germany.
- 2964 NOBLE, W. Outlook for fertilizer supplies. Calif. Citrog. 36:37, 41. Nov. 1950. 80 C125
- 2965 RAFOLS, W. DE. Abonos. Assoc. Nac. de Ingen. Agrón. B. Ofic. (ser. 2):1:148-157. Ref. Mar. 1950. 58.9 As5
- 2966 UTAH. UNIVERSITY. COLLEGE OF BUSINESS. BUR. OF ECONOMIC AND BUSINESS RESEARCH. Economic factors affecting the development of the Intermountain fertilizer industry. Utah Econ. & Business Rev. 10 (2A), 179 p. Ref. June 1950. 280.8 Ut1

Mineral Soil Amendments

- 2967 HOPKINS, D. P. Lime requirements of England and Wales. Fert. Feed. Stuffs & Farm Supplies J. 36:485, 487-488. Aug. 9, 1950. 57.8 F413
- 2968 KELLEY, O. J. The role of gypsum in the reclamation and improvement of alkali soils for agricultural purposes. (Abs.) Amer. Fert. & Allied Chem. 113(7):9. Sept. 30, 1950. 57.8 Am3
- 2969 MEHTA, D. R. S. Gypsum deposit near Ran, District Halar, Saurashtra. J. Sci. & Indus. Res. 9A:287-288. Aug. 1950. 475 J82
- 2970 NELLER, J. R., and KELLY, W. H. Wood waste lignins to produce soil organic matter of a stable nature. Soil Sci. Soc. Amer. Proc. 1949(14):212-215. Ref. 1950. 56.9 So3
- 2971 RNEHART, J. C., TEDROW, J. C. F., and BEAR, F. E. Gypsum as a soil conditioner in humid regions. (Abs.) Amer. Fert. & Allied Chem. 113(7):10. Sept. 30, 1950. 57.8 Am3



## Manures and Composts

- 2972 BLANCO M., G. Agua potable, aguas negras y fertilidad de los suelos. Chapingo 4:475-476, 497. May 1950. 102 C36  
Treatment of sewage for use as fertilizer.
- 2973 DEUTSCHE LANDWIRTSCHAFTS-GESELLSCHAFT. Kunstmistbereitung. Deut. Landwirt.-Gesell. Flugbl. 6,4 p. 1950. 18 D48FL
- 2974 DUTHIL, J. Fumier artificiel et fumier mixte. Agr. Charentais 5(18):2. Sept.30, 1950. 14 Ag825  
Compost preparation.
- 2975 EDWARDS, R. L. Developing a synthetic compost. 3. Trace elements and potassium. MGA Bulletin 21: 236-238. Oct. 1950. 80 M97  
For mushrooms.
- 2976 FERWERDA, J. D. Manure. (In Dutch.) Netherlands. Landvoortlichtingsdienst. Maandbl. 7:273-281. July 1950. 12 N383M
- 2977 GERRETSEN, F. C. On the care of manure and straw compost. (In Dutch.) Netherlands. Landvoortlichtingsdienst. Maandbl. 7:281-288. Ref. July 1950. 12 N383M
- 2978 GROOTENHUIS, J. A. Municipal sewage as a source of organic material for agriculture. (In Dutch.) Netherlands. Landvoortlichtingsdienst. Maandbl. 7:289-300. Ref. July 1950. 12 N383M
- 2979 HAARER, A. E. Dos and don'ts about dung. Farmer & Stock-Breeder 64:2654. Sept. 26, 1950. 10 F228
- 2980 KORTLEVEN, J. Use of untreated town sewage (In Dutch.) Netherlands. Landvoortlichtingsdienst. Maandbl. 7:300-303. July 1950. 12 N383M
- 2981 MARTINS, M. M. Compost; what it is and how it must be prepared. (In Portuguese.) Rev. dos Criadores 21(6):20-22. June 1950. 43.8 R32
- 2982 MIDDLEY, A. R. Efficient use of dairy manure. Vt. Agr. Expt. Sta. Pam. 24,16 p. Aug. 1950. 100 V59P
- 2983 MORERA, V. Elaboración de compuestos fungicidas y bactericidas utilizando desechos vegetales. Indus. y Quím. 12:116-120, 137. Ref. June 1950. 385 In28
- 2984 NEISHTADT, M. I. A quarter of a century of scientific-research work of the Central Peat Experiment Station of the Ministry of Agriculture of R.S.F.S.R. (In Russian.) Bot. Zhur. 35:100-108. Ref. Jan./Feb. 1950. 451 R923  
Includes various uses of peat in agriculture.
- 2985 ØDELIEN, M. Various ways of using city garbage and human manure. (In Norwegian.) Gartner-yrket 40:686-688. Sept. 30, 1950. 80 G1938
- 2986 PÉQUIGNOT, R. Ce que représente le fumier. Motorisation Agr. 5:397,399,401. July/Aug. 1950. 58.8 M85  
Analysis and composition.
- 2987 PERTSEVA, A. N. Microbiological processes in composting marshy peat. (In Russian.) Vsesoizn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(6):19-25. Ref. 1950. 20 Ak1
- 2988 RAUTAVAARA, T. The use of town and village waste in plant production. (In Finnish.) Suomen Maataloustiet. Seura. Maataloustiet. Aikausk. 22:68-85. Ref. 1950. 20 Su7M  
English summary.
- 2989 RENZ, F. Gülle, dünn oder dick, roh oder vergoren? Allgäuer Bauernbl. 18:471-473. Aug. 24, 1950. 18 AL53  
For pastures.
- 2990 ROTH, E. Fresh or composted straw. (In Swedish.) Lantmannen 34:713-714. Sept. 16, 1950. 11 L234
- 2991 SOLLEDER, W. Wohin mit dem stroh? Kunst-mistherstellung bietet günstige verwertungsmöglichkeiten. Bad. Landwirt. Wchnbl. 117:580. Aug. 26, 1950. 18 B142
- 2992 SOUZA JUNIOR, J. O. DE. Organic matter. (In Portuguese.) Soc. Rur. Brasil. Rev. 30(356):26-27. July 1950. 9.2 B733  
Manure preparation.
- 2993 STAHR, A. Leavings; how to collect and use autumnal leaves. Org. Gard. 17(4):43. Oct. 1950. 56.8 Or3
- 2994 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Peat and muck in agriculture, by M. S. Anderson, S. F. Blake, and A. L. Mehring. Beltsville, 1950. 17 p. 1.965 A2P32

- 2995 VOIGT, G. K., BRENER, W. H., and WILDE, S. A. Liquid ammonia treatments of composted fertilizers. Soil Sci. Soc. Amer. Proc. 1949(14):281-283. 1950. 56.9 So3
- 2996 WHITE, L. W. How to get the most money out of manure. Capper's Farmer 61(10):19. Oct. 1950. 6 M693
- 2997 ZHELEZNIK, P. G. Proper utilization of home fertilizers. (In Russian.) Sovetsk. Zhivotn. 12(4):50-53. Apr. 1950. 49 So71  
Manures chiefly.

## FORESTRY

## GENERAL

- 2998 AHMED, Y. S. Forestry in East Pakistan. Pakistan 1(4):72-73. Aug. 1950. 278.8 P17
- 2999 AMERICAN FORESTRY ASSOCIATION. 75th anniversary issue. Amer. Forests 56(10), 68 p. Oct. 1950. 99.8 F762
- 2900 BATHEN, R. Iceland - Norway. Report on the visit of Icelanders to Troms in the year 1949. (In Norwegian.) Tidsskr. f. Skogbruk 58:136-140. June 1950. 99.8 T432  
Observation of Norwegian forests.
- 2901 BOROVOL, V. A. Forestry of Poland. (In Russian.) Lesn. Khoz. 3(4):60-61. Apr. 1950. 99.8 L562
- 2902 BURKE, M. H. The national forests and the farm economy. Oreg. Dept. Agr. Agr. B. 167:7-8. Sept. 1950. 2 Or3
- 2903 CORING, H. Der forstmann als fürsprecher des waldes in der öffentlichkeit. Forst u. Holz 5:49-51. (To be cont.) Sept. 1, 1950. 99.8 F7724
- 2904 COSTANTINI, M. Arboles en la trayectoria del Libertador. (Excerpts.) Bolsa de Cereales, Buenos Aires. Rev. 37(1961):7-8, 10. Aug. 24, 1950. 287 B866  
San Martín as a lover of trees.
- 2905 DEMIDOV, A. I. A. A. Nartov—first Russian forester. (In Russian.) Lesn. Khoz. 3:85-86. Jan. 1950. 99.8 L562
- 2906 DE ROSAYRO, R. A. Forests and forestry in Ceylon. Ceylon Trade J. 15:451-457. Aug. 1950. 286.8 C333
- 2907 DILLER, O. D. The practice of forest conservation. In Smith, G., ed. Conservation of natural resources, p. 209-225. Ref. New York, Wiley, 1950. 279.12 Sm5
- 2908 FRANCEY, J. La forêt vaudoise hier et aujourd'hui. Forêt 3:226-232. (To be cont.) Sept. 1950. 99.8 F7683
- 2909 GUGNINAS, A. Progress in forestry of Lithuanian SSR. (In Russian.) Lesn. Khoz. 3(4):46-49. Apr. 1950. 99.8 L562
- 2910 HARRISON, J. D. B. Forestry in a changing world. In Timmons, J. F., and Murray, W. G., eds. Land problems and policies, p. 159-172. Ames, Iowa State Col. Press, 1950. 282 T48
- 2911 HOPPENSTEDT, In Weser-Ems überwiegt der privatwald. Landwirtbl. Weser-Ems 36:730-731. Sept. 6, 1950. 18 L2345
- 2912 JONES, C. Forest history, resources and laws. In Virginia Academy of Science. James River Project Committee. The James River Basin, p. 387-412. Richmond, 1950. 138 V812
- 2913 KLIMOV, V. I. Outstanding Russian forester, A. E. Teploukhov. (To the 65th anniversary of his death). (In Russian.) Lesn. Khoz. 3(4):91-93. Apr. 1950. 99.8 L562
- 2914 KOPPENFELS, VON. Halstenbek, die weige des waldes. Forst u. Holz 5:265-266. Sept. 1, 1950. 99.8 F7724
- 2915 LESLIE, A. P. Some historical aspects of forestry in Ontario. Forestry Chron. 26:243-250. Sept. 1950. 99.8 F7623
- 2916 MERIKALLIO, E. Forest personnel in Sweden and Finland. (In Swedish.) (Sum.) Skogen [Stockholm] 37:66. June 15, 1950. 99.8 Sk56
- 2917 NEVES, B. The forestry problem of Madelra. (In Portuguese.) Frutas da Madelra 10:36-37. July 1950. 286.83 F9422



2918 NORSKE SKOGSELSKAP. Årsberetning fra det Norske Skogselskap for 1949 [Annual report of the Norwegian Forest Society for 1949]. Tidsskr f. Skogbruk 6,25 p. 1950. 99.8 T432

2919 RANGANATHAN, C. R. Forest research and education in India. Unasylya 4:110-115. July/Sept. 1950. 99.8 Un1

2920 SASAKI, T., and WATANABE, K. Japanese forestry bibliography, 1940-48. Supreme Commander Allied Powers. Nat. Resources Sect. Prelim. Study 40, 134 p. Aug. 1950. 280.9 Su72

2921 SCHALLENBERGER, K. Um die einheit im forstlichen organisationswesen. Allg. Forstztg. 61:145-149. Sept. 1950. 99.8 AL53

Austria.  
2922 SOLNTSEV, Z. I. A. Outstanding Soviet forester. (In Russian.) Lesn. Khoz. 3:88. Jan. 1950. 99.8 L562  
Sergei Venediktovich Alekseev.

2923 STEVENS, T. D., and LIVINGSTON, K. W. Wood; Alabama's No. 1 agricultural crop. Ala. Lumberman 2(8):8-9. Aug. 1950. 99.81 AL1

2924 U. S. FOREST SERV. TROPICAL FOREST EXPERIMENT STATION. Publications, Oct. 1939/Jan. 1950. Rio Piedras? 1950. 10 p. 1.9622 T2P96

2925 WATTS, L. F. La industria forestal en los Estados Unidos. Charla Rur. 132:26-27, 44. Sept. 1949. 9 C37

2926 WAUTHOZ, V. L'Ardenne; paysages forestiers d'autrefois d'aujourd'hui, de demain. Soc. Cent. Forest. de Belg. B. 57:361-378. Oct. 1950. 99.9 B83

2927 WHITE, G. O., MEYER, A. B., and TOWELL, W. E. Forestry. Mo. Conserv. 11(9):3-9. Sept. 1950. 279.8 M69

2928 WRIGHT, A. J. The development of conservation in America. In Smith, G., ed. Conservation of natural resources, p. 1-12. New York, Wiley, 1950. 279.12 Sm5

Includes forest conservation.

2929 WULZ, O. Können wir von der amerikanischen forstwirtschaft lernen? Allg. Forstz. 5:327-329. Aug. 2, 1950. 99.8 AL52

2930 ZEHNGRAFF, P. J. Forestry in Denmark. J. Forestry 48:681-684. Oct. 1950. 99.8 F768

#### Education

2931 DELISLE, R. Education forestière et assistance technique aux petits propriétaires forestiers, dans la province de Quebec. Forêt et Conserv. 2:835-838. Sept. 1950. 99.8 F792

2932 HEIBERG, H. H. H. The professorship in silviculture. (In Swedish.) Skogen [Stockholm] 37:69-70. June 15, 1950. 99.8 Sk56  
In Norway

2933 KAZNIN, M. On training of young [forestry] specialists. (In Russian.) Lesn. Khoz. 3:83-84. Jan. 1950. 99.8 L562

At Ul'ianovskafä Lesnafä Shkola.  
2934 LOTT, E. J., VAN CAMP, J. L., and AMICK, W. R. 4-H Club forestry manual, Division 1. Purdue U. Agr. Ext. B. 354, 20 p. 1950? 275.29 In2E

2935 LUK'IANOV, B. N. Technical training in forestry. (In Russian.) Lesn. Khoz. 3(4):80-83. Apr. 1950. 99.8 L562

2936 MATTOON, W. R., and SHINN, E. H. Forestry for 4-H Clubs. U. S. D. A. Misc. P. 395, slightly rev., 50 p. May 1950. 1 Ag84M

2937 NESSWEITHA, H. Die erziehung unseres wald-facharbeiternachwuchses. Allg. Forstz. 5:391-392. Sept. 20, 1950. 99.8 AL52  
Germany.

2938 PRAKASH, M. Importance of educational propaganda. Indian Forester 76:395-396. Sept. 1950. 99.8 In2

2939 U. S. FOREST SERV. Ranger 'rithmetic for seventh grade teachers. Washington, 1950. 12 p. 1 F78Rar

Materials to help teach forest conservation.

2940 WRIGHT, C. E. Engineering and Industrial Experiment Station, University of Florida. Paper Trade J. 131(13):24-26, 28-31. Sept. 28, 1950. 302.8 P196  
Training in forestry.

#### Policies, Programs, Administration

2941 ALABAMA. DEPT. OF CONSERVATION. Report for fiscal year October 1, 1948-September 30, 1949. Montgomery, 1949. 159 p. 275.9 AL1  
Includes reports of the Divisions of Forestry and State Lands.

2942 ALLEN, B. S. Tree farming is resurgent [in California]. Calif. Farmer, South. Ed. 193:312. Oct. 7, 1950. 6 C126A

2943 ASSAM. FOREST ADMIN. Progress report for the year 1946-47. Assam, 1950. 94 p. 99.9 In2As

2944 BJØRN-HANSEN, E. The forest settlement in the consolidation of holdings. (In Norwegian.) Tidsskr. f. Skogbruk 58:150-152. June 1950. 99.8 T432

2945 BJARNASON, H. The planting excursion of Norwegian youth to Iceland in the summer 1949. (In Norwegian.) Tidsskr. f. Skogbruk 58:140-146. June 1950. 99.8 T432

Forest trees.

2946 BOROVOL, V. Forestry of Czechoslovakia. (In Russian.) Lesn. Khoz. 3(3):47-49. Mar. 1950. 99.8 L562

2947 CANADA DEPT. OF RESOURCES AND DEVELOPMENT. FORESTRY BR. Program of work, June 1950-May 1951. Ottawa, 1950. 56 p. 99.9 P94

2948 CHATURVEDI, M. D. Tree planting week (Vana Mahotsava). Indian Forester 76:374-376. Sept. 1950. 99.8 In2

2949 CHODRISHVILI, I. I. We shall accomplish the laying out of State shelterbelts in an exemplary manner. (In Russian.) Les i Step' 2(4):13-18. Apr. 1950. 99.8 L565

2950 CHUMAKOV, S. In front positions of the combat with drought. (In Russian.) Lesn. Khoz. 3(2):64-66. Feb. 1950. 99.8 L562

Achievements of trade unions of forestry labor in promoting the Stalin Plan to change nature.

2951 CHUMAKOV, S. Trade union agreement—important lever in fulfilling production plans [in forestry]. (In Russian.) Lesn. Khoz. 3(3):21-24. Mar. 1950. 99.8 L562

2952 DANSK PILEDYRKERFORENING. Report for the year 1949-50 of the Danish Willow Growers Association. (In Danish.) Dansk Skovfor. Tidsskr. 35:504-508. Sept. 1950. 99.8 D23

2953 DEAN, G. W. The activities of the Virginia Forest Service. In Virginia Academy of Science. James River Project Committee. The James River Basin, p. 424-426. Richmond, 1950. 138 V812

2954 DELISLE, R. Aide gouvernementale aux propriétaires planteurs. Abeille et l'Erable (ser. 2) 19:99-100. (Concl.) Aug./Sept. 1950. 424.8 Ab32  
Sugar maple culture in Canada.

2955 ELLA, E. D'. Forest economics and policy: orientation of the statistical observations. (In Italian.) Italy. Inst. Cent. di Statist. Ann. di Statist. (ser. 8) 4:231-262. 1950. 261 Ag8A  
Italy.

2956 FEDERICO, S. Present aspect of Italian forestry problems. (In Italian.) Indus. del Legno 2(4):25-26, 29(5):20-22. Apr.-May 1950. 99.82 In2

2957 FULLERTON, A. W. The Maritimes are conserving now. Timber Canada 11(2):25-27. Oct. 1950. 99.81 T487

2958 GLONIAGIN, V. On creating conditions for conducting research in the forestry enterprises. (In Russian.) Lesn. Khoz. 3(2):93. Feb. 1950. 99.8 L562

2959 HADDINGTON, LORD. The Danish Heath Society. Scot. Forestry 4:65-71. July 1950. 99.8 Sco3  
Chiefly on the forest plantings of the Heath Society.

2960 HAZANOFF, A. The afforestation of the dunes at Caesaria. Hassadeh 30:567-570. (To be cont.) July 1950. 26 H27

2961 HEMINGWAY, R. F., and COCHRAN, A. R. The George Washington and the Jefferson National Forests. In Virginia Academy of Science. James River Project Committee. The James River Basin, p. 431-433. Richmond, 1950. 138 V812

2962 HOBART, S. G. The State forests within the James River Basin. In Virginia Academy of Science. James River Project Committee. The James River Basin, p. 427-430. Richmond, 1950. 138 V812



- 2963 ISAMUKHAMEDOV, M. Uzbek SSR is struggling to change nature. (In Russian.) Lesn. Khoz. 3(3): 12-16. Mar.1950. 99.8 L562  
Chiefly on afforestation.
- 2964 ISRAEL. DEPT. OF FORESTS. Annual report, 1949-50. (In Hebrew.) n.p.,1950? 15 p. 99.9 Is7  
English summary.
- 2965 KOLDANOV, V. IA. Problems in shelterbelt silviculture. (In Russian.) Lesn. Khoz. 3(4):4-12. Apr. 1950. 99.8 L562
- 2966 LAFFITTE, J. C. Conceptos sobre forestación en el Uruguay. Asoc. de Ingen. Agron. Rev. 21(86/87): 32-36. Sept./Dec.1949. 290.9 As73
- 2967 LASCURAIN YOSIO, A. Causa de la desforestación. Mensajero Forest. 8(75):2-3,18. July 31, 1950. 99.8 M522
- 2968 LINDGREN, I. In the field for the sake of the forest. (In Swedish.) Skogsägaren 26:159-163. Aug. 1950. 99.8 Sk55  
Reforestation in Finland.
- 2969 LORD, D. Vidalia Gum Turpentine Company takes reforestation seriously. Nav. Stores Rev. 60(27): 16. Sept.30,1950. 99.81 N22
- 2970 LOUISIANA FORESTRY COMMISSION. Third progress report, 1948-1949. n.p.,1950. 35 p. 99.9 L933P
- 2971 LØVMO, J. E. Reforestation on the coast. (In Norwegian.) Skogen [Oslo] 15:53-54. 1950. 99.8 Sk56  
Administration of program.
- 2972 LOZOVÓY, A. A. Work on the communist youth plot of the State shelterbelt. (In Russian.) Lesn. Khoz. 3(3):64-68. Mar.1950. 99.8 L562
- 2973 LUX, H. Beförsterungsverbände, praktisch gesehen. Forst u. Holz 5:229. July 15,1950. 99.8 F7724
- 2974 LYBYE, S. State aid to forest planting in Denmark. (In Swedish.) Skogen [Stockholm] 37:172-173. Aug.1,1950. 99.8 Sk51
- 2975 MCARDLE, R. E. What is past is prologue. Washington, U. S. Forest Serv.,1950. 11 p. 1.962 A2M12  
Presented at meeting of the American Forestry Association and the Canadian Forestry Association, Eagle River, Wis., Oct. 9, 1950.  
Forest conservation in the United States.
- 2976 MARTIN, W. G. South and central Florida adding tree farms. Fla. Grower 58(10):10,23-24. Oct. 1950. 80 F6622
- 2977 NAGOVITSYN, N. A. Investigational and planning work on afforestation of the steppes in 1949. (In Russian.) Lesn. Khoz. 3(4):24-27. Apr.1950. 99.8 L562
- 2978 NYBØ, K. The Svelg's Valley and Bremanger Electricity Company. (In Norwegian.) Skogen [Oslo] 15: 48-51. 1950. 99.8 Sk56  
Reforestation.
- 2979 PEREKHOD, V. I. On developing plantations of specially valuable tree species. (In Russian.) Lesn. Khoz. 3(2):82-83. Feb.1950. 99.8 L562
- 2980 PLAISANCE, G. Les droits d'usage en forêt. Féd. des Assoc. de Communes Forest. Franç. B. Off. 1950(7/8):2-3. July/Aug.1950. 99.9 F313
- 2981 POLNISCHE forstwirtschaft in Schlesien. Allg. Forstz. 5:309-313. July 19,1950. 99.8 AL52
- 2982 PROTO, M. Reforestation of eastern Sicily. (In Italian.) Mezzogiorno Agr. 6(36):1,3. Sept.17/23, 1950. 16 M57
- 2983 ROLSTED, M. Norway's forest administrators during 75 years. (In Norwegian.) Tidsskr. f. Skogbruk 58:75-80. Apr./May 1950. 99.8 T432
- 2984 SAVE-THE-REDWOODS LEAGUE. Saving the redwoods, 1949-1950. Berkeley,1950. 15 p. 99.9 Sa93A
- 2985 SCHMID, F. Zur frage des forsttechnischen dienstes bei der allgemeinen verwaltung. Allg. Forstztg. 61:149-152. Sept.1950. 99.8 AL53  
Austria.
- 2986 SIDORENKO, A. T. Experimental industrial forestry of BSSR [White Russian Republic]. (In Russian.) Lesn. Khoz. 3:76-77. Jan.1950. 99.8 L562
- 2987 SMIRNOV, A. S. On planning [in forestry]. (In Russian.) Lesn. Khoz. 3(3):83-84. Mar.1950. 99.8 L562
- 2988 SPEER, J. Massenerzeugung oder werterzeugung? Allg. Forst- u. Jagdztg. 121:159-164. Ref. 1950. 99.8 AL3
- 2989 SWABEY, C. Note on the development of forest policy in British Guiana. Timehri 29:27-35. Aug.1950. 9.6 T48
- 2990 SYLVAIN, R. A propos de reboisement. Bois et Scieries 56:842-843. Sept.14,1950. 99.81 B632
- 2991 TORTORELLI, L. A., and TACCARI, I. A. La acción privada en la forestación y reforestación del país. Argentina. Min. de Agr. Almanaque 25:321-323. 1950. 9 Ag874
- 2992 TRENK, F. B. School and community forests expand. Wis. Conserv. B. 15(9):22-23. Sept.1950. 279.8 W752
- 2993 VASIL'EV, P. V. Forestry of European countries of people's democracies on the road of socialist reconstruction. (In Russian.) Lesn. Khoz. 3(2):6-15. Feb. 1950. 99.8 L562
- 2994 VAS'KOV, I. G. To improve cultural and living conditions for workers in forestry. (In Russian.) Lesn. Khoz. 3:9-14. Jan.1950. 99.8 L562
- 2995 VAS'KOV, I. G. To strengthen the international unity of forestry workers; results of the Warsaw conference of trade unions in agriculture and forestry. (In Russian.) Lesn. Khoz. 3(3):17-20. Mar.1950. 99.8 L562
- 2996 WADSWORTH, F. H. The development of the forest land resources of the Luquillo Mountains, Puerto Rico. Mich. U. Microfilm Abs. 10(3):106-107. 1950. 241.8 M58
- 2997 WAGENINGEN. BOSBOUWPROEFSTATION T.N.O. Bosbouwproefstation T.N.O. Verslag over het jaar 1949 [Forestry Experimentation Station T.N.O. Report for the year 1949]. Wageningen,1950. 14 p. 99.9 W122
- 2998 ZHUKOV, I. V. For a system of economy and increase of economic value of each ruble of forestry expenditures [in R.S.F.S.R.]. (In Russian.) Lesn. Khoz. 3:4-8. Jan.1950. 99.8 L562

#### Legislation and Taxation

- 2999 BAVNGAARD, A. Assessment of forests for property taxation and land taxation. (In Danish.) Dansk Skovfor. Tidsskr. 35:457-472. Aug.1950. 99.8 D23
- 3000 FORD, T. Severance tax produced \$367,982; levy on forest products netted Forestry Division \$349,583 for program. Ala. Conserv. 22(3):8,29. Sept.1950. 279.8 AL1
- 3001 GT. BRIT. LAWS, STATUTES, ETC. An act for the preservation of white and other pine trees in Her Majesties colonies of New Hampshire, Massachusetts-Bay for the masting of Her Majesties Navy (1710). Waltham,Mass.,1949. 387-388 p. 99.59 G79
- 3002 ILVESALO, Y. Classification of forest lands for taxation. (In Finnish.) Metsätaloudellinen Aikakauslehti 6:187-191. 1950. 99.9 F49  
English summary.
- 3003 MAHOOD, I. Forest taxation in British Columbia. Forestry Chron. 26:197-205. Sept.1950. 99.8 F7623
- 3004 MOULDS, F. R. An equated system for the determination of royalty for sawmill logs in Victoria. Austral. Timber J. 16:327,329,331,333,341-342,344,347. June 1950. 99.81 Au7
- 3005 PASSMANN, B. Die bestuerung der ausserordentlichen walnutzungen auf grund der neuen einkommensteuer-richtlinien. Allg. Forstz. 5:336-339. Aug.2,1950. 99.8 AL52  
Germany.
- 3006 SIKKEL, D. Increased production and nature protection in connection with a new forest law. (In Dutch.) Nederland. Boschbouw Tijdschr. 22:207-213. Ref. July 1950. 99.8 N28
- 3007 TAYLOR, M. E. To fell or preserve. Farmer & Stock-Breeder 64:2524. Aug.29,1950. 10 F228  
Tree felling regulations in Great Britain.

#### Forest Description and Resources

- 3008 BOROVOI, V. Forests of the Hungarian National Republic. (In Russian.) Lesn. Khoz. 3:64-66. Jan. 1950. 99.8 L562
- 3009 BRAUN, E. L. Deciduous forests of eastern North America. Philadelphia,Blakiston,1950. 596 p. Ref. 99.11 B73
- 3010 BRYAN, M. B. Timber production and commodity drain from Florida's forests, 1948. U. S. Forest Serv. Soeast. Forest Expt. Sta. Forest Survey Release 34,35 p. Aug.1950. 1.9622 A3F76



- 3011 CAMANDONA, D. Net production Italian forests in 1948 with reference to geographic distribution. (In Italian.) Italy. Inst. Cent. di Statist. Ann. di Statist. (ser.8)4:175-230. 1950. 261 Ag8A
- 3012 CANADA. BUR. OF STATISTICS. INDUSTRY AND MERCHANDISING DIV. FORESTRY SECT. Operations in the woods; final estimates of forest production 1948. n.p., 1950. 18 p. 99.76 C16S  
In English and French.
- 3013 COLO, B. Woods and pastures of the Bologna Appennines. (In Italian.) Mercanzia 5(8):13-20. Aug. 1950. 287 B635
- 3014 COSTA, C. DA. Woodlands of the Azores. (In Portuguese.) Azores. Comis. Regulad. dos Cereais. B. 6(12):1-26. Ref. (Cont.) Second Semes. 1950. 15 Az6 History.
- 3015 DILLER, O. D. Our forest resources. In Smith, G., ed. Conservation of natural resources, p.193-208. New York, Wiley, 1950. 279.12 Sm5
- 3016 ESPEJEL DIAZ, L. Cual es y qué significa la riqueza forestal de Chihuahua. B. Forest. 2(22):4-5, 17-18, 20-21. (Cont.) Aug. 1950. 99.8 B633
- 3017 HÅKANSSON, R. West Germany's forests are hard taxed. (In Swedish.) Skogen [Stockholm] 37:178-179. Aug. 1, 1950. 99.8 Sk51
- 3018 HARE, F. K. Climate and zonal divisions of the boreal forest formation in eastern Canada. Geog. Rev. 40:615-635. Oct. 1950. 500 Am35G
- 3019 KOTSCHWAR, A. Liberia und seine wälder. Weltholzwirtschaft 2:87-88. Ref. May 1950. 99.82 W48
- 3020 LATHAM, B. Hardwood survey. 4-5. Wood [London] 15:309-312; 347-350. Sept.-Oct. 1950. 99.82 W855  
4. The commercial timbers of Asia; 5. Australasia.
- 3021 LINDQUIST, B. The forest and the landscape of the Skåne of Linnaeus. (In Swedish.) Svenska Linné-Sällsk. Årsskr. (1949)32:19-41. 1950. 502 Sv2  
English summary, p. 118-119.
- 3022 LOUVEL, M. Notes sur les forêts malgaches de l'Est. Rev. Internat. de Bot. Appl. d'Agr. Trop. 30: 370-378. July/Aug. 1950. 26 R323
- 3023 LOWEGREN, G. Los bosques de Suecia y su industria forestal. Mensajero Forest. 8(75):8-9. July 31, 1950. 99.8 M522
- 3024 MCCLELLAN, J. C. They all have a stake in our forests. Paper Trade J. 131(14):25-26, 28. Oct. 5, 1950. 302.8 P196
- 3025 MALINOVSKII, A. V. Forests of the world. (In Russian.) Lesn. Khoz. 3(3):43-46. Mar. 1950. 99.8 L562
- 3026 MEESTERS, C. F. T. A short visit to Norfolk. (In Dutch.) Nederland. Boschbouw Tijdschr. 22:273-275. Sept. 1950. 99.8 N28  
Forests and forestry in England.
- 3027 MORAVETS, F. L. Commodity drain on commercial forests in Oregon and Washington, 1948. U. S. Forest Serv. Pacific Nowest. Forest & Range Expt. Sta. Forest Survey Rpt. 103, 19 p. June 1950. 1.9622 P2F76
- 3028 NEVZOROV, N. V. On utilizing the forest resources of Irkutsk Region. (In Russian.) Vsesoiuzn. Geog. Obsch. Izv. 82:330-332. May/June 1950. 511 L546
- 3029 PEDRO, E. R. Aspecto geral do problema florestal de Moçambique [General aspect of the forest problem of Mozambique]. Lisboa, 1949. 15 p. ([Portugal] Junta de Investigações Coloniais. Colóquios, 1) 99.27 P34
- 3030 QUATTROCCHI, G. Wooded areas in Italy, June 30, 1947. (In Italian.) Italy. Inst. Cent. di Statist. Ann. di Statist. (ser.8)4:1-99. 1950. 261 Ag8A
- 3031 RANCOURT, E. DE. L'Union Indienne et ses richesses forestières. Rev. Internat. des Prod. Colon. 25:159-160. Aug./Sept. 1950. 286.8 R326
- 3032 RIU VULART, J. M. Nuestro arbolado forestal; cuatro tipos de vegetación. II. Cám. Ofic. Sind. Agr. de Barcelona. B. 5:187-190. July 1950. 15 C14
- 3033 ROCHE, D. Les forêts du Gabon. Bois et Scieries 56:727-728. July 20, 1950. 99.81 B632
- 3034 SAMUELSON, E. In German postwar forests. (In Swedish.) Skogsägaren 26:168-171. Aug. 1950. 99.8 Sk55
- 3035 SENNI, L. Somaliland and its forests. (In Italian.) Indus. del Legno 2(3):51-52. Mar. 1950. 99.82 In2
- 3036 SPEER. Grenzen der produktionsfähigkeit der forsten im Westdeutschen Bundesgebiet. (Sum.) Textil-Rundschau 5:379. Sept. 1950. 304.8 T3139
- 3037 U. S. FOREST SERV. National forest areas, June 30, 1950. Washington, 1950. 16 p. 1 F765
- 3038 U. S. FOREST SERV. Timber cut on national forests by regions under sales and land exchanges. Rev. Washington, 1950. 2 p. 1.962 A2T485
- 3039 U. S. FOREST SERV. EASTERN REGION. George Washington National Forest, Virginia-West Virginia. Washington, 1950. 23 p. 1 F7622G

## Individual Genera and Species

- 3040 AL'BENSKIY, A. V. Identification of some species of Populus. (In Russian.) Lesn. Khoz. 3(3):87. Mar. 1950. 99.8 L562
- 3041 ANDERSEN, M. An apology for European larch. (In Danish.) Dansk Skovfor. Tidsskr. 35:396-400. July 1950. 99.8 D23
- 3042 BASBOUS, M. Les hybrides américains de peuplier. Schweiz. Z. f. Forstw. 101:418-437. Ref. Sept. 1950. 99.8 J82
- 3043 BOMHARD, M. L. Palm trees in the United States. U. S. D. A. Agr. Inform. B. 22, 26 p. Ref. 1950. 1 Ag84Ab
- 3044 BOUGET, J. Le châtaignier de Médous. Soc. Bot. de France. B. 96:124-127. 1949. 451 F84B
- 3045 BURGSORFF, J. V. Die akazie - aus der praxis für die praxis. Forst u. Holz 5:275-276. Sept. 1, 1950. 99.8 F7724
- 3046 COSTANTINO, I. N. Parcelas experimentales permanentes: Libocedrus chilensis (Don) Endl.; estudios de crecimientos y regeneración natural. Argentina. Min. de Agr. y Ganad. P. Téc. 13, 112 p. Ref. 1949. 9 Ar37
- 3047 EASTERN white pine; nature's gift to New England. Fed. Reserve Bank Boston. Mon. Rev. 32(9):1-4. Sept. 1950. 284.8 F31B
- 3048 EDLIN, H. L. Trees in the landscape. 2. Oak. Wood [London] 15:321-323. Sept. 1950. 99.82 W855  
England.
- 3049 FONSECA FILHO, C. DE A. Tiputree or peanut acacia in the forestation of Belo Horizonte. (In Portuguese.) Chacaras e Quintais 82:349-351. Sept. 15, 1950. 9.2 C34  
Culture of Tipuana tipu.
- 3050 GADOW, W. V. Ungleichaltrigkeit bei buche. Allg. Forstz. 5:343-344. Aug. 16, 1950. 99.8 AL52
- 3051 GEETE, E. Stockholm's most beautiful tree. Has the Ornäs birch at Skeppsholmen been moved? (In Swedish.) Skogsägaren 26:144-146. July 1950. 99.8 Sk55
- 3052 GOTHE, H. Sudetenlärche-alpenlärche. Forst u. Holz 5:221-222. July 15, 1950. 99.8 F7724
- 3053 HERVAS, A. Una especie ideal para forestar: la morera. Mundo Agr. 2(15):50-51. Aug. 1950. 9 M92  
Also in Bolsa de Com., Rosario. Rev. 38(927):9-11. Aug. 31, 1950. 287 R71
- 3054 JANIS, A. Populiculture, technologie et industrie. Rev. du Bois 5(9/10):7-8. Sept./Oct. 1950. 99.82 R32
- 3055 JOUGAN, E. Les beaux feuillages d'automne. Acclimatation 77:209. Sept. 30, 1950. 14 Ac2  
Forest species in France.
- 3056 KAŇÁK, K. Trees in Iceland. (In Czech.) Lesnická Práce 29:89-99. 1950. 99.8 L56  
English summary.
- 3057 LESCHNER. Okoumé-erzeugung und arbeiter-problem in Gabun. Weltholzwirtschaft 2:111-112. June 1950. 99.82 W46  
Aucoumea.
- 3058 MARTÍNEZ, M. El ahuehuete (Taxodium mucronatum Ten.); séptima contribución al estudio de las Pináceas mexicanas. Mex. Inst. de Biol. An. 21:25-82. Ref. 1950. 442.9 M57
- 3059 MATHAUDA, G. S. Cupressus torulosa—a timber with a bright future. (A plea for raising large scale plantations of the species). Indian Forester 76:397-398. Sept. 1950. 99.8 In2
- 3060 MATSUI, Y. The growth of Todo-fir in natural forest. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32: 124. Apr. 25, 1950. 99.8 N62
- 3061 MAXWELL, E. G. Twelve broadleaf trees for Nebraska. Nebr. Agr. Expt. Sta. E. C. 1727, 16 p. Sept. 1950. 275.29 N272Ex



- 3062 OLBERG, A. Die durchforstung der kiefer. Hannover, Schaper, 1950. 135 p. 99.48 OL1
- 3063 POTVIN, A. What do you know about the aspen? Forest & Outdoors 46(10):14-15. Oct. 1950. 99.8 C16
- 3064 RUIZ ALARCO, F. E. Quercus suber. Co. Admin. del Guano Peru. B. 25:83-85. June 1949. 57.9 C73B
- 3065 SAETA, V. A. Quercus in Altai Territory. (In Russian.) Lesn. Khoz. 3(3):79-82. Mar. 1950. 99.8 L562
- 3066 SAITO, Y. Studies on Pinus densiflora Sieb. et Zucc. f. umbraculifera Miyoshi. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:109. Apr. 25, 1950. 99.8 N62
- 3067 SCHÖBER, R. Die lärche, eine ertragskundlich-biologische untersuchung. Hannover, Schaper, 1949. 285, 79 p. 99.35 Sch62
- 3068 SCHOENICHEN, W. Die edeltanne (Abies alba) im europäischen waldbilde. Naturwiss. Rundschau 3:409-414. Sept. 1950. 474 N216
- 3069 SHIRAI, Y. Growth of Quercus suber L. and Quercus variabilis Blume cultivated in Japan, and the qualities of their cork. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:117-118. Apr. 25, 1950. 99.8 N62
- 3070 TOYAMA, S., TUMAGARI, T., and HIDAKA, H. Characteristics of "black pine No. 26." (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:117. Apr. 25, 1950. 99.8 N62
- 3071 VOINOV, V. V. Cork oak [Quercus suber and Quercus suber occidentalis] in Crimea. (In Russian.) Lesn. Khoz. 3:58-59. Jan. 1950. 99.8 L562
- 3072 WARD, J. D. U. Sequoias colonize Britain. Nat. Hist. 59:383. Oct. 1950. 500 N483J
- 3073 WEST, O. Indigenous tree crops for Southern Rhodesia. Rhodesia Agr. J. 47:204-217. Ref. May/June 1950. 24 R34
- 3074 YOSHIOKA, K. On the exotic trees planted in the early period of colonization in Hokkaido. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:103. Apr. 25, 1950. 99.8 N62
- ### FOREST MANAGEMENT AND FINANCE
- 3075 AASETH, A. L. Forest labor. (In Swedish.) Skogbrukeren 25:169-174. July 1, 1950. 99.8 Sk54
- 3076 ABETZ, K. Zur theorie der forstlichen einheitsbewertung. Allg. Forstz. 5:352-354. Aug. 16, 1950. 99.8 AL52
- 3077 ADAMO, O. A. D'. El sistema de valuación de bosques en la Argentina. Argentina. Dir. de Inform. P. Misc. 320, 18 p. 1949. 9 P943
- 3078 ASSMANN, E. Noch einmal: naturgemässer wirtswald? Allg. Forstz. 5:315-316. July 19, 1950. 99.8 AL52
- 3079 BARRACLOUGH, S. L. Forest land ownership in New England with special reference to forest holdings of less than five thousand acres. Cambridge, Harvard U., 1949. 269 p. 99.61 B272  
Thesis - Harvard.
- 3080 BECKING, J. H. Increasing the returns from growing oaks. (In Dutch.) Nederland. Boschbouw Tijdschr. 22:196-206. (Cont.) July 1950. 99.8 N28
- 3081 BRENAC, L. Voici comment on peut accroître le rendement des forêts communales. Féd. des Assoc. de Communes Forest. Franç. B. Off. 1950(7/8):6-7. July/Aug. 1950. 99.9 F313
- 3082 CHAPMAN, H. H. Forest management. Bristol, Conn., Hildreth Press, 1950. 582 p. 99.55 C36  
Includes bibliographies.
- 3083 CORLETO ARAGON, E. A. Negligencia en los bosques rurales. Rev. Ganad. [San Salvador] 9(128/129):35. July/Aug. 1950. 8 R3292  
Management.
- 3084 DOUGLAS-FIR SECOND-GROWTH MANAGEMENT COMMITTEE. Your trees, a crop; how to grow and harvest them in the Douglas-fir region. Olympia? Div. Forestry, Dept. Conserv. and Devlpmt., State Wash., 1950. 62 p. 99.61 D74
- 3085 FRERICH, Zur neuregelung der beschaffungsbeihilfen in Nordrhein-Westfalen. Forst u. Holz 5:224. July 15, 1950. 99.8 F7724
- 3086 GERBRANDA, G. The importance of a management program for a forest property. (In Dutch.) Nederland. Boschbouw Tijdschr. 22:268-272. Sept. 1950. 99.8 N28
- 3087 GILMOUR, J. D. Forest ownership and taxation. Forestry Chron. 26:206-212. Sept. 1950. 99.8 F7623
- 3088 HACHENBERG, F. Untersuchungen über leistung eines weisstannenbestandes ausserhalb des natürlichen verbreitungsgebietes dieser baumart. Forst u. Holz 5:222-224. July 15, 1950. 99.8 F7724
- 3089 HAUSENDORFF, E. Zur frage des umbaus der waldbautechnischen begriffe. Forst u. Holz 5:237-239. Aug. 1, 1950. 99.8 F7724
- 3090 JINDRA, J., TĚDOSIJEV, J., and ČERMÁK, K. The increasing of forest cutting's productivity. Czech. Lesnická Práce 29:100-112. 1950. 99.8 L56
- 3091 JØRGENSEN, F., and HERMANSEN, N. K. Forest economic calculations. II. A new cutting cycle based on economic considerations. (In Danish.) Dansk Skovfor. Tidsskr. 35:352-385. Ref. July 1950. 99.8 D23
- 3092 KAGIS, I. Forestry ownership and forestry practice. Forestry Chron. 26:213-220. Sept. 1950. 99.8 F7623
- 3093 KELLER, I. W. Forestry accounting. 1. Wood [Chicago] 5(10):24, 28. Oct. 1950. 99.82 W859
- 3094 KNUDSEN, A. Forestry equipment in U.S.A. (In Danish.) Dansk Skovfor. Tidsskr. 35:473-496. Sept. 1950. 99.8 D23
- 3095 LUDVIGSEN, F. P. Cutting classes and management policies. (In Norwegian.) Tidsskr. f. Skogbruk 58:130-136. June 1950. 99.8 T432
- 3096 MCCULLOCH, W. F., comp. The forester on the job; application of supervisory and personnel principles to forestry situations. Corvallis, Oreg., 1950. 105 p. Ref. 99.06 M13F
- 3097 MEYER-WEDELIN, H. Entwicklung und stand der türkischen forstwirtschaft. Forstarchiv 21:47-56. (To be cont.) June 30, 1950. 99.8 F7723
- 3098 MINCKLER, L. S. Managing northern hardwoods. J. Forestry 48:446-447. Sept. 1950. 99.8 F768
- 3099 MINSK. BELARUSKAIĀ AKADEMIIĀ NAVUK. INSTYTUT LESA. Kak pravil'no vesti khozjaistvo v kolkhoznnykh lesakh [Proper management of forests on collective farms]. Minsk, AkademiiĀ Nauk BSSR, 1950. 61 p. 99.55 M66
- 3100 MOUTON, G. Travaux d'entretien en forêt par des procédés mécaniques. Rev. Forest. Franç. 1950:544-552. Oct. 1950. 99.8 R329
- 3101 MÜLLER-THOMAS. Die wirtschaftlichkeit der forstbetriebe—extensive oder intensive forstwirtschaft? Landwirt. Wechnbl. f. Westfalen u. Lippe 107 A:1209-1210. Aug. 31, 1950. 18 L2346  
Germany.
- 3102 NORDIN, E. Current forest and pasture management problems in South Sweden. (In Swedish.) Skogen [Stockholm] 37:62, 73. June 15, 1950. 99.8 Sk56  
Silvicultural practices.
- 3103 PATRONE, G. Doit-on lier aux règlements l'aménagement des forêts? (In Italian.) Italia Forest. e Mont. 5:133-135. July/Aug. 1950. 99.8 It12  
French summary.
- 3104 PERKITNY, T., and KRYCZKO, M. Influence of resin-boxing upon the value of pine timber for plywood production. (In Polish.) Sylwan 93:94-105. 1949. 99.8 Sy52  
English summary.
- 3105 PLAISANCE, G. Les assainissements en forêt par les moyens mécaniques. Rev. Forest. Franç. 1950:553-563. Oct. 1950. 99.8 R329
- 3106 PRODAN, M. Probleme der zuwachs- und leistungskontrolle. Allg. Forst- u. Jagdztg. 121:164-169. 1950. 99.8 AL3
- 3107 PUSTOSHKIN, I. I. Drainage of forests—an urgent problem. (In Russian.) Lesn. Khoz. 3(4):76-77. Apr. 1950. 99.8 L562
- 3108 RIABININ, V. P. On payment of specialists in forestry. (In Russian.) Lesn. Khoz. 3(4):67. Apr. 1950. 99.8 L562
- 3109 SCHAEFFER, A. Emploi du bulldozer en forêt. Rev. Forest. Franç. 1950:541-543. Oct. 1950. 99.8 R329
- 3110 SEIFERT. Erprobung des lutz-fahrradeinbaumotors im Forstamt Westerhof. Forst u. Holz 5:241. Aug. 1, 1950. 99.8 F7724
- 3111 SIMMONS, C. W. 100 acres of abandoned cropland can yield \$25,000 in tree crops; cattle can graze native forage under trees. Coastal Cattleman 16(9):34-35. Nov. 1950. 43.8 C63



3112 TARASOV, V. V. On forestry labor. (In Russian.) Lesn. Khoz. 3(3):89. Mar.1950. 99.8 L562

3113 THIELMANN, K. Gedanken zur Intensivierung der forstwirtschaft. Allg. Forstz. 5:397-398. Sept.20, 1950. 99.8 AL52

3114 TILLANDER, T. What is done—what should be done. (In Swedish.) Skogsägaren 26:113-119. June 1950. 99.8 Sk55

Forest management.

3115 WECK. Zuwachsstelgerung an fichten und kiefern als folge von wachstumsvergrößerung. Allg. Forstz. 5:341-343. Aug.16,1950. 99.8 AL52

3116 WIEĆKO, E. The problem of first costs in forest production. (In Polish.) Sylwan 93:19-55. Ref. 1949. 99.8 Sy52

English summary.

#### Farm Woodlands

3117 ABETZ, K. Zur methodik der zustandserfassung und planung in bauernwaldungen. Allg. Forst- u. Jagdztg. 121:153-158. 1950. 99.8 AL3

3118 ADDERLY, J. A. Trees on the farm. 4. Felling control and preservation. Farmers Wk. [London] 33(11): 57,59. Sept.15,1950. 10 F2226

3119 ANGELL, G. N. Good money in farm woodlot. Oreg. Farmer 72:694. Sept.15,1950. 6 Or32

3120 BERNIKOV, V. V. Omsk tree belts. (In Russian.) Sovet. Agron. 8(7):89-91. July 1950. 20 So84

3121 BROWN, N. I. Plant pines, young man! Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 65(10):22,122. Oct.1950. 6 P945K

3122 CARDOSO, A. Suitability of the farmer's having a woodland for the needs of his property. (In Portuguese.) Gaz. do Agr. 2:163-164. July 1950. 24 G25

Mozambique.

3123 COLE, S. H. Trees on the farm. 2. Siting and costing. Farmers Wk. [London] 33(9):55,57. Sept.1,1950. 10 F2226

Planting shelter belts on an exposed fell farm, Great Britain.

3124 CORLETO ARAGON, E. A. Negligencia en los bosques rurales. Rev. Ganad. [San Salvador] 9(128/129): 35. July/Aug.1950. 8 R3292

El Salvador.

3125 ECKMÜLLNER, O. Zur bauernwaldfrage in Österreich. Allg. Forstztg. 61:129-133. Aug.1950. 99.8 AL53

3126 HÄRTEL, O. Der bauer und sein wald. Landwirtschaft 1950:239-240. Aug.1950. 19 L235

3127 HATLINGHUS, S. S. The Norwegian Forestry Society's management programs. (In Norwegian.) Skogen [Oslo] 15:44-47. 1950. 99.8 Sk56

For farm forests.

3128 KOROLEFF, A. Woodlot management improvement. Forestry Chron. 26:240-242. Sept.1950. 99.8 F7623

3129 LLOYD, W. J. Woodland's value dramatized for 20,000. Soil Conserv. 16:84-86. Nov.1950. 1.6 So3S

Demonstration of woodland management, Washington.

3130 LUCAS, B. F. Economic hurdles in farm forestry. N. Y. Agr. Col. Farm Econ. 175:4537-4539. July 1950. 280.8 C812

3131 METEER, J. W., and ANDERSON, W. R. Woodland improvement and harvesting. Ohio Farm & Home Res. [Ohio Sta.] 35:57-58. July/Aug.1950. 100 Oh3S

3132 POLUNIN, L. N. Organized management of shelterbelt planting on the collective farms in Kuban Area. (In Russian.) Les i Step' 2(4):58-60. Apr.1950. 99.8 L565

3133 PRATT, E. R. Trees on the farm. 3. Grants for poplar [Populus] planting in England. Farmers Wk. [London] 33(10):57,59. Sept.8,1950. 10 F2226

For farm shelter belts.

3134 RETTIE, J. C., and INESON, F. A. Otsego Forest Products Cooperative Association of Cooperstown, New York; an evaluation. U. S. D. A. Agr. Inform. B. 17, 42 p. Sept.1950. 1 Ag84Ab

3135 STREL'TSOV, P. M. Forest plantings on arid lands. (In Russian.) Les i Step' 2(5):93-95. May 1950. 99.8 L565

Shelterbelts at Gallia-Aral Grain-State Farm in Uzbek SSR.

3136 U. S. FOREST SERV. Norris-Doxey farm woodland management project. Washington,1950. 1 p. 1.962 C5N79

Statistics.

3137 U. S. FOREST SERV. SOUTHEASTERN FOREST EXPERIMENT STATION. Farm woodlot management in the Southern Piedmont; two-year progress report, by T. A. McClay. Asheville,1950? 4 p. 1.9622 S4F223

3138 VANE, W. M. F. Trees on the farm. 1. Tempering the wind. Farmers Wk. [London] 33(8):49,51. Aug.25,1950. 10 F2226

3139 WARD, J. D. U. Three English woods. Country Life [London] 108:1008-1009. Sept.29,1950. 80 C83

3140 WOODLAND management, an important part of soil conservation. Conserv. News 5(12):7. Oct.12,1950. 279.8 C768

#### Mensuration

3141 ABETZ, K. Zur kennzeichnung des vorratsgefüges in plenterwaldungen. Allg. Forstz. 5:313. July 19, 1950. 99.8 AL52

3142 BONNOT, P. Cubage et règle à calcul. Rev. du Bois 5(9/10):21-22. Sept./Oct.1950. 99.82 R32

3143 CHAPMAN, H. H. Methods and results of re-survey in checking 10-year prediction of yield. J. Forestry 48:444-445. Sept.1950. 99.8 F768

3144 GILL, C. B. A study of the relationship between the number of trees per acre and dispersion. Forestry Chron. 26:186-196. Sept.1950. 99.8 F7623

3145 GROCHOWSKI, J. The part played by the coefficient of variation in the research work. (In Polish.) Sylwan 93:12-18. 1949. 99.8 Sy52

English summary.

3146 HONICKE, K. Richtig und schnell rechnen! Schatzkammer des Wissens 3,5 p. June 29,1950. 99.8 Schl

3147 KAWADA, M. Some notes on the method to know the breast-height diameter from the stump diameter (2nd report). (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:120-122. Apr.25,1950. 99.8 N62

3148 KHRAMENKO, K. I. On assortment tables. (In Russian.) Lesn. Khoz. 3(2):91-92. Feb.1950. 99.8 L562

3149 KINASHI, K. A study of forest-surveys by sampling. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:122-123. Apr.25,1950. 99.8 N62

3150 KOZHIN, N. I. On revising the volume tables for cut timber. (In Russian.) Lesn. Khoz. 3:32-34. Jan. 1950. 99.8 L562

3151 MATSUI, Y. The relative height by diameter of conifers in Hokkaido natural forest. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:123-124. Apr.25,1950. 99.8 N62

3152 MATSUMOTO, T., and SUGAHARA, T. Mechanical study on the tree-form (preliminary report). (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:131-132. Apr.25,1950. 99.8 N62

3153 MINOR, C. O. Form class volume tables for use in southern pine pulpwood timber estimating. La. Agr. Expt. Sta. B. 445,39 p. June 1950. 100 L93

3154 NAKAMURA, N., MATSUSHITA, T., and MITSUI, S. On the comparison of the measured volumes between standing trees and logs with tops. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:124-125. Apr.25, 1950. 99.8 N62

3155 PARKER, H. A. Bark thickness of lodgepole pine. Canada. Forest Res. Div. Silvicult. L. 49,2 p. Sept.1950. 99.9 C165

3156 SCHNUR, G. L., and LANE, R. D. Aids for computing tree volumes in Illinois. U. S. Forest Serv. Cent. States Forest Expt. Sta. Tech. Paper 115,26 p. Aug.1950. 1.9622 C3T222

3157 SPIECKER, M. Der kombinierte höhenmesser. Allg. Forstz. 5:348-349. Aug.16,1950. 99.8 AL52

3158 STOFFELS, A. Die berechnung des mittleren abrundungsfehlers bei der sektionsweisen inhaltsermittlung liegender stämme. Schweiz. Z. f. Forstw. 101:473-477. Sept.1950. 99.8 J82

3159 SZYMKIEWICZ, B. Extension des tables de production de Schwappach pour le pin d'une classe, soit de la classe Ia. (In Polish.) Sylwan 93:76-93. 1949. 99.8 Sy52

French summary.



3160 WOHLFAHRT. Zur kennzeichnung des plenter-waldgefüges. Allg. Forstz. 5:347-348. Aug.16,1950. 99.8 AL52

#### Aerial Surveying and Photography

3161 STANLEY, G. W. Use of aerial photos in management plans. J. Forestry 48:442-443. Sept.1950. 99.8 F768

3162 STEIGERWALDT, E. F. Stereotypes for aerial photo interpreters. J. Forestry 48:693-696. Oct.1950. 99.8 F768

3163 WAGER, J. V. K. Uses of aerial photographs in forest recreation; a discussion. Photogram. Engin. 16:618-619. Sept.1950. 325.28 P56

Discussion of a paper by R. C. Colwell.

3164 WINTERS, R. K. Timber surveyors take to the air. Outdoor Ind. 17(10):4-5,16. Oct.1950. 279.8 Ou82

#### Silviculture

3165 ASADA, S. Studies on silvicultural property of Larix. II. (Abs.) In Japanese.) Jap. Forestry Soc. J. 32:108-109. Apr.25,1950. 99.8 N62

3166 BAKER, F. S. Principles of silviculture. New York, McGraw-Hill, 1950. 414 p. Ref. (Amer. Forestry Ser.) 99.45 B17P

3167 CARBONNIER, C. Some examples of successful oak culture. (In Danish.) Skogen [Stockholm] 37:170-171. Aug.1,1950. 99.8 Sk51

3168 COILE, T. S. Effect of soil on the development of hardwood understories in pine stands of the Piedmont Plateau. Soil Sci. Soc. Amer. Proc. 1949(14):350-352. 1950. 56.9 So3

3169 CURTIS, J. D. Stocking of logged ponderosa pine land in central Idaho. U. S. Forest Serv. Inter-mountain Forest & Range Expt. Sta. Res. Paper 23,15 p. Aug.1950. 1.9622 I2R31

3170 DAY, G. M., and ROBBINS, W. R. Observations on the growth of red spruce [Picea rubens] in sand culture. J. Forestry 48:689-692. Oct.1950. 99.8 F768

3171 DENISOV, A. K. Some regularities in the natural development of oak groves. (In Russian.) Lesn. Khoz. 3(4):41-42. Apr.1950. 99.8 L562

Study of age of trees.

3172 DERIABIN, D. I. Effect of exposure to light and thinning on Quercus development. (In Russian.) Lesn. Khoz. 3(4):54-57. Apr.1950. 99.8 L562

3173 DERIABIN, D. I. Present-day condition of the oak forests planted along the Middle Volga Area. (In Russian.) Lesn. Khoz. 3(2):61-63. Feb.1950. 99.8 L562

3174 FARRAR, J. L. Some principles of silvicultural research. Forestry Chron. 26:228-230. Sept.1950. 99.8 F7623

3175 GREHN. Zur gründung der arbeitsgemeinschaft für forstgenetik und forstpflanzenzüchtung. Allg. Forstz. 5:329. Aug.2,1950. 99.8 AL52

3176 HASENKAMP, W. Die forstliche pflanzenzüchtung in Dänemark und Schweden. Forstarchiv 21:41-46. Ref. June 30,1950. 99.8 F7723

3177 HEILMANN, A. The problem of origin and the seed supply of North American tree species with special regard to Douglasfir. (In Danish.) Dansk Skovfor. Tidsskr. 35:430-456. Aug.1950. 99.8 D23

3178 HENRIKSEN, H. A. An experiment with Danish beech varieties. (In Danish.) Dansk Skovfor. Tidsskr. 35:497-503. Sept.1950. 99.8 D23

3179 HIGO, J., and YOSHIDA, K. On the effect of sea water to the growth of pine seedling (Pinus thunbergii). (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:114-115. Apr.25,1950. 99.8 N62

3180 HOLMSGAARD, E. Growth conditions and increment of beech trees and branches in deep shade; a contribution to the elucidation of the theory of suppressed branches. (In Danish.) Dansk Skovfor. Tidsskr. 35:401-429. Ref. Aug.1950. 99.8 D23

3181 HUCKENPAHLER, B. J. Development of nineteen-year-old southern pine plantations in Tennessee. J. Forestry 48:722-723. Oct.1950. 99.8 F768

3182 IAKOVLEV, M. I. Again on oak in Siberia. (In Russian.) Lesn. Khoz. 3:79-80. Jan.1950. 99.8 L562

Culture of Quercus mongolica.

3183 KASHIMURA, D. On the growth of the beech (Fagus crenata Blume) and other shrubs in the beech sprout forest. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:105. Apr.25,1950. 99.8 N62

3184 KOGUTOV, D. S. Good care—the guarantee of high adaptability of forest crops. (In Russian.) Les i Step' 2(4):71-72. Apr.1950. 99.8 L565

Work management at Belotserkov Forestry Enterprise.

3185 KOPPIKAR, V. B. Some observations on mixed planting of Ocimum kilimandscharicum (camphor yielding Tulsi plant) young teak. Indian Forester 76:405. Sept.1950. 99.8 In2

3186 KRAMAROV, I. I. Cultivation of Salix acutifolia on the sands in Don River Area. (In Russian.) Lesn. Khoz. 3:46-47. Jan.1950. 99.8 L562

3187 KUZNETSOV, S. E. Experiment in growing Pinus nigra caramanica in the steppe. (In Russian.) Les i Step' 2(6):65-66. June 1950. 99.8 L565

3188 LAMPRECHT, H. Waldbauliche Gesichtspunkte zur Holzartenwahl. Schweiz. Z. f. Forstw. 101:468-473. Sept.1950. 99.8 J82

3189 LUK'ANOV, A. K. Culture of Populus in Ural River Valley. (In Russian.) Lesn. Khoz. 3(3):85-86. Mar.1950. 99.8 L562

3190 MAL'TSEV, M. P. Cultivation of Amurian velvet trees [Gynura] in Northern Caucasus. (In Russian.) Lesn. Khoz. 3(4):68-72. Apr.1950. 99.8 L562

3191 MANN. Über durchforstungen. Hannoversche Land- u. Forstwirt. Ztg. 103:467-468. May 6,1950. 18 H194

Silviculture.

3192 MARQUARDT, H. Möglichkeiten der forstpflanzenzüchtung. Allg. Forst- u. Jagdztg. 121:129-139. 1950. 99.8 AL3

3193 MATSUSHIMA, Y. The character of the forestry in Yoshino. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:126. Apr.25,1950. 99.8 N62

3194 MAZUR, M. A., and GUZOVSKIY, M. I. Shelterbelt silviculture in the Salsk steppes. (In Russian.) Les i Step' 2(4):62-64. Apr.1950. 99.8 L565

3195 MIRONOV, F. E. In the Orenburg steppes. (In Russian.) Les i Step' 2(4):79-81. Apr.1950. 99.8 L565

Shelterbelt silviculture at Cheben'kovskii Sovkhoz.

3196 MURAI, S. The study of the sugi [Cryptomeria] planted in experimental plot in Aomori Prefecture. II. A study on the growth at its early ages. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:103. Apr.25,1950. 99.8 N62

3197 NAKANO, M. Research on alpine forestry in Hokkaido. (forest ecological studies). II. The relation between the vertical distribution and the growth of the forest trees. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:105. Apr.25,1950. 99.8 N62

3198 NEKRASOVA, T. P. Culture of Larix sibirica on Kola Peninsula. (In Russian.) Lesn. Khoz. 3(2):67-70. Feb.1950. 99.8 L562

3199 NOVAK, P. S. Eucalyptus culture in Krasnodar Territory. (In Russian.) Les i Step' 2(5):96-97. May 1950. 99.8 L565

3200 NOVAK, P. S. Introduction of eucalypts into the Lazarev forestry enterprise. (In Russian.) Lesn. Khoz. 3(2):90. Feb.1950. 99.8 L562

3201 NOZHENKO, S. E. On the possibility of cultivating Phellodendron amurense under continental conditions. (In Russian.) Priroda 39(5):54-56. Ref. May 1950. 410 P933

3202 POGREBNIĀK, P. S. On the closing up of crowns in the Quercus plantings which were established by the group method. (In Russian.) Agrobiologiya 1950 (3):118-123. May/June 1950. 20 Ag822

3203 PREOBRAZHENSKIY, A. V. Geographic experimental cultivation of Pinus. (In Russian.) Lesn. Khoz. 3(4):58-59. Apr.1950. 99.8 L562

Effect of geographic origin of seeds on growth.

3204 PREOBRAZHENSKIY, A. V. Old experiments on introduction of tree species. (In Russian.) Lesn. Khoz. 3(4):87-89. Apr.1950. 99.8 L562

3205 RUDOLF, P. O. A test of pelleted jack pine seed. J. Forestry 48:703-704. Oct.1950. 99.8 F768

3206 SHIRAIISHI, A. An investigation on the formation of the even-aged and single-storied natural forest of the Hiba Thujaopsis dolabrata, var. hondai makino. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:105. Apr.25, 1950. 99.8 N62

3207 STEVENS, J. Growth of the soil. J. Forestry 48:725. Oct.1950. 99.8 F768

Forestry in the Pacific Northwest.



3208 TARRANT, R. F. A relation between topography and Douglas-fir site quality. *J. Forestry* 48:723-724. Oct.1950. 99.8 F768

3209 VLASTUK, P. A., and BELOKON', I. P. Steppe silviculture in Ukraine. (In Russian.) *Les i Step' 2*(4): 28-31. Apr.1950. 99.8 L565  
Conference at Kievskiy Gosudarstvennyi Universitet im. T. G. Shevchenko.

3210 VOGDT, D. Kiefern auf trockenem sand und ihr kampf um den wurzelraum. *Forst u. Holz* 5:272-274. Sept.1,1950. 99.8 F7724

3211 WAHLENBERG, W. G. Epicormic branching of young yellow-poplar [*Liriodendron tulipifera*]. *J. Forestry* 48:417-419. Sept.1950. 99.8 F768

3212 YAMAZAKI, T., and IWAMURA, M. Studies on the races of *Pinus densiflora* Sieb. et Zucc. I. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:117. Apr.25,1950. 99.8 N62

3213 ZENTGRAF, E. Waldbauliche planungsarbeit. *Allg. Forst- u. Jagdztg.* 121:151-152. 1950. 99.8 AL3

3214 ZHUKOV, A. B., GODNEV, E. D., and SHUMAKOV, V. S. Problems of agricultural technique in the development of oak forests. (In Russian.) *Lesn. Khoz.* 3(2):16-24. Feb.1950. 99.8 L562

#### Silvicultural Practices

3215 ALLEN, G. S. Applied silviculture in the coastal region of British Columbia. *Forestry Chron.* 26: 221-225. Sept.1950. 99.8 F7623

3216 CAMPBELL, R. S., and PEEVY, F. A. Poisoning certain undesirable southern hardwoods for forest and range improvement. *Amer. Midland Nat.* 44:495-505. Ref. Sept.1950. 410 M58

3217 CELORICO MARTINEZ, A. Poda de la encina. *Balearic Isl. Diputación Prov. B. de Agr.* 71:6-7. Aug. 1950. 15 B19

3218 CHASHKIN, M. I. Mechanized soil tillage in the young forest plantations. (In Russian.) *Les i Step' 2* (6):26-31. June 1950. 99.8 L565

3219 DALY, E. G. Improvement cutting in a mixed-wood stand; project P-24. *Canada. Forest Res. Div. Silvicult. L.* 46,4 p. May 1950. 99.9 C16S

3220 DEKATOV, N. E. Selection of places for groups of [tree] crops in Siberian forest zone. (In Russian.) *Lesn. Khoz.* 3(4):50-53. Apr.1950. 99.8 L562

3221 FENLEY, J. M. Pollarding—age-old practice permits grazing in Pays Basque forests. *J. Range Mangt.* 3:316-318. Oct.1950. 60.18 J82

3222 GODNEV, E. D. Results of experiments in growing forest crops by the group method on plots of the State Forestry Department. (In Russian.) *Lesn. Khoz.* 3(4):21-23. Apr.1950. 99.8 L562

3223 GOLUBINSKIY, S. S. Mulching of soils in silvicultural work. (In Russian.) *Lesn. Khoz.* 3(2):58-60. Feb.1950. 99.8 L562

3224 GRACE, L. A. DE. Application of silviculture in British Columbia. *Forestry Chron.* 26:237-239. Sept. 1950. 99.8 F7623

3225 INOUE, Y. Study on a special type of the middle forest system for Akamatsu. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:125. Apr.25,1950. 99.8 N62

3226 KASTRUKOFF, M. Strip thinning with tractor winch, Saskatchewan. *Canada. Forest Res. Div. Silvicult. L.* 48,2 p. Sept.1950. 99.9 C16S

3227 KHRISTOVSON, N. I. Proper cultural practices—guarantee of high adaptability of forest crops. (In Russian.) *Les i Step' 2*(5):85-88. May 1950. 99.8 L565  
In shelterbelts.

3228 LOSITSKIY, K. B. Principal cuttings in the mountain forests. (In Russian.) *Lesn. Khoz.* 3(2):28-32. Feb.1950. 99.8 L562

3229 MOWAT, E. L. Cutting lodgepole overstory releases ponderosa pine reproduction. *J. Forestry* 48: 679-680. Oct.1950. 99.8 F768

3230 NIKITIN, P. D. Careful soil cultivation—guarantee of successful silviculture. (In Russian.) *Les i Step' 2*(5):42-46. May 1950. 99.8 L565

3231 OGORODOV, N. V. About one silvicultural measure. (In Russian.) *Lesn. Khoz.* 3(3):76-78. Mar. 1950. 99.8 L562  
Liberation cutting.

3232 QUAITE, J. Severe thinning in an overstocked lodgepole pine stand. *Canada. Forest Res. Div. Silvicult. L.* 47,2 p. June 1950. 99.9 C16S

3233 RIGDON, H. P. Eradication of trees and shrubs. *Okla. Agr. Col. Ext. C.* 526,10 p. n.d. 275.29 Ok41C

3234 SAUR, H. Qu'est-ce que la méthode "Saur"? *Forêts de France* 24:6. Aug.1950. 99.9 F315

3235 SOMES, H. A., and MOORHEAD, G. R. Prescribed burning does not reduce yield from oak-pine [*Quercus-Pinus*] stands of southern New Jersey. *U. S. Forest Serv. Noeast. Forest Expt. Sta. Paper* 36,19 p. Aug.1950. 1.9622 N2St22

3236 STRØMSØE, B. Rejuvenation cuttings in our pine areas poor in humus. (In Norwegian.) *Tidsskr. f. Skogbruk* 58:122-130. Ref. June 1950. 99.8 T432

3237 TRET'IAKOV, N. A. Methods for checking up on the quality of improvement cuttings. (In Russian.) *Lesn. Khoz.* 3:35-37. Jan.1950. 99.8 L562

3238 VOROPANOV, P. V. Improvement and selective cuttings in the light of the Michurin-Lysenko teaching. (In Russian.) *Lesn. Khoz.* 3:19-26. Jan.1950. 99.8 L562

3239 WEATHERBY, H. Selective cutting of white spruce [*Picea glauca*] shows promise in northern B. C. *Brit. Columbia Lumberman* 34(10):62,64. Oct.1950. 99.81 B77

3240 ZHUKOV, A. B. Cultural practices for growing oak [*Quercus*] plantations in Stalingrad, Astrakhan and Rostov Regions. (In Russian.) *Lesn. Khoz.* 3(4):16-17. Apr.1950. 99.8 L562

#### Seeding and Planting

3241 AFANAS'EV, A. P. Accelerated stratification of Tatarian maple [*Acer tataricum*] seeds. (In Russian.) *Lesn. Khoz.* 3(3):88. Mar.1950. 99.8 L562

3242 AKIMOCHKIN, N. G. Growing *Quercus* on steep slopes by sowing acorns. (In Russian.) *Agrobiologiya* 1950(3):124-129. May/June 1950. 20 Ag822

3243 ALONZO, A. E. Plantación de pino Paraná. *Argentina. Min. de Agr. Almanaque* 25:273-277. 1950. 9 Ag874  
*Araucaria angustifolia*.

3244 BARYSHMAN, F. S. Group method of sowing shelterbelts in Kuban Area. (In Russian.) *Les i Step' 2* (6):50-53. June 1950. 99.8 L565

3245 BONNEVE-SVENDSEN, C. Investigation of natural regeneration under different conditions at Mathiesen, Eidsvold Vaerk. (In Norwegian.) *Tidsskr. f. Skogbruk* 58:85-91. Apr./May 1950. 99.8 T432

3246 BRENER, W. H. Forest planting trends. *Wis. Conserv. B.* 15(9):16-19. Sept.1950. 279.8 W752

3247 BULYGIN, V. A. We shall improve the quality of *Pinus* seeds. (In Russian.) *Lesn. Khoz.* 3(4):77-78. Apr.1950. 99.8 L562

3248 BURESCH SAGNER, O. Cosecha y conservación de semillas forestales. *Argentina. Min. de Agr. Almanaque* 25:157-158. 1950. 9 Ag874

3249 CARNEVALE, J. A. Las almácigas de forestales. *Argentina. Min. de Agr. Almanaque* 25:259-269. 1950. 9 Ag874

3250 DANNIK, S. Group sowing of shelterbelts on the collective farms in Odessa Region. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):22. June 1950. 281.8 K83

3251 DEMENT'EV, P. I. On dates of planting *Larix sibirica*. (In Russian.) *Lesn. Khoz.* 3(2):87-88. Feb.1950. 99.8 L562

3252 DRANGIED, O. Forest planting is constructive work. (In Norwegian.) *Landbrukstidende* 56:566. July 19,1950. 11 L236

3253 GLADYSHEVSKIY, M. K., and D'ACHENKO, A. E. How to perform sowing and planting in shelterbelts. (In Russian.) *Les i Step' 2*(4):86-89. Apr.1950. 99.8 L565

3254 GODNEV, E. D. Experiments in storing acorns in Buzuluk Forest. (In Russian.) *Lesn. Khoz.* 3:69-70. Jan.1950. 99.8 L562

3255 GRADOV, B. A seeding attachment for SL-4 drill for sowing acorns by the group method. (In Russian.) *Lesn. Khoz.* 3(4):62-64. Apr.1950. 99.8 L562



- 3256 HIGO, J., HIROKI, Y., and YONEKURA, M. On the relation of the rooting power of cuttings to their mother tree age. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:114. Apr. 25, 1950. 99.8 N62
- 3257 HOUGH, A. F. Weed killers may be useful in reforesting old burns. U. S. Forest Serv. Noeast. Forest Expt. Sta. Noeast. Res. Note 1,4 p. Aug. 1950. 1.9622 N2N82
- 3258 IVANOV, N. M. General and extensive introduction of the group method of sowing shelterbelts. (In Russian.) Les i Step' 2(5):78-84. May 1950. 99.8 L565  
Similar title in Agrobiologiya 1950(3):130-137. May/June 1950. 20 Ag822
- 3259 JUHREN, G. Protecting direct seedlings in rodent-infected areas. J. Forestry 48:443-444. Sept. 1950. 99.8 F768.
- 3260 KANAEV, V. Experiment in growing tree seedlings. (In Russian.) Kolkhoz. Proizvodstvo 10(6):40. June 1950. 281.8 K83  
At a collective farm forest nursery.
- 3261 KIKUCHI, S. On the natural seed-shedding of beech by the cutting of bamboo-grasses and the removal of humus-decay accumulative layer. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:110. Apr. 25, 1950. 99.8 N62
- 3262 KOVALIN, D. T., and VOEVODA, D. K. Spraying equipment for watering in the [forest] nurseries. (In Russian.) Lesn. Khoz. 3(3):50-55. Mar. 1950. 99.8 L562
- 3263 KUZNETSOV, S. E. Sowing acorns by the group method in the Crimean steppe. (In Russian.) Les i Step' 2(4):76-78. Apr. 1950. 99.8 L565
- 3264 LESNIAK, D. S. A great triumph. (In Russian.) Les i Step' 2(5):77. May 1950. 99.8 L565  
Completion of shelterbelt planting in two years instead of seven as planned by Vsesoyuznyi Nauchno-Issledovatel'skii Institut Gibrizatsii i Akklimatizatsii Zhivotnykh, Askaniia Nova.
- 3265 LOZOVYI, A. A. Preparation of Ulmus seeds for sowing. (In Russian.) Lesn. Khoz. 3(4):79. Apr. 1950. 99.8 L562
- 3266 LUK'ANOV, B. On storage of acorns. (In Russian.) Lesn. Khoz. 3:71. Jan. 1950. 99.8 L562
- 3267 MASHINSKAYA, L. P. How to establish shelterbelts in vineyards. (In Russian.) Vinodel. i Vinograd. SSSR. 10(6):22-24. June 1950. 95.8 V77
- 3268 MEYERINK, W. E. The reforestation of Walcheren stands and falls with its care. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 61:205-211. July 1950. 12 N282
- 3269 MININ, D. Summer procurement of tree and shrub seeds. (In Russian.) Les i Step' 2(6):75-78. June 1950. 99.8 L565
- 3270 MIRONOVICH, I. K. Deep planting of Pinus. (In Russian.) Les i Step' 2(5):92. May 1950. 99.8 L565
- 3271 NEUMANN, Augsburgur laubholzsaaten. Forst u. Holz 5:271-272. Sept. 1, 1950. 99.8 F7724
- 3272 NIKOL'SKII, V. L. Quercus sowing by the group method in the steppe and forest-steppe zones. (In Russian.) Lesn. Khoz. 3(3):73-75. Mar. 1950. 99.8 L562
- 3273 OPSAHL, W. More speed in the reforestation of West Norway. (In Norwegian.) Tidsskr. f. Skogbruk 58:80-85. Apr./May 1950. 99.8 T432
- 3274 PANUKOV, D. N. New drills for group sowing of forest crops. (In Russian.) Lesn. Khoz. 3(3):61-63. Mar. 1950. 99.8 L562
- 3275 PESHKOV, I. IA. We are ready for the spring. (In Russian.) Les i Step' 2(4):60-61. Apr. 1950. 99.8 L565  
Shelterbelt planting at Skopinsk Forestry Enterprise.
- 3276 PIATNITSKII, S. S. New Quercus species for steppe afforestation. (In Russian.) Les i Step' 2(5):47-54. May 1950. 99.8 L565  
Chiefly on breeding.
- 3277 POURTET, J. La mécanisation des repeuplements artificiels. Rev. Forest. Franç. 1950:564-569. Oct. 1950. 99.8 R329
- 3278 REINHARDT, VON. Laubholzpflanzung. Forst u. Holz 5:270-271. Sept. 1, 1950. 99.8 F7724
- 3279 ROMANINI, A. Rooting of willow cuttings. (In Italian.) Avvenire Agr. 58:189. Aug. 1950. 16 Av9
- 3280 ROVSKII, V. M., and OZOLIN, G. P. Propagation of Ulmus species with root cuttings. (In Russian.) Lesn. Khoz. 3(2):89. Feb. 1950. 99.8 L562
- 3281 RUBTSOV, A. Results of checking norms for sowing seeds of tree and shrub species. (In Russian.) Lesn. Khoz. 3(4):73-75. Apr. 1950. 99.8 L562
- 3282 RUBTSOV, A. M. New contrivances for collecting seeds of forest trees. (In Russian.) Les i Step' 2(6):41-44. June 1950. 99.8 L565
- 3283 SAFRONOV, I. P. For a still more decisive combat with drought. (In Russian.) Les i Step' 2(6):7-10. June 1950. 99.8 L565  
Shelterbelt planting in Chkalov Region.
- 3284 SAMOYLOVICH, G. G. New method for estimating the yields of forest tree seeds. (In Russian.) Les i Step' 2(6):45-47. June 1950. 99.8 L565  
Use of airplane.
- 3285 SAVCHENKO, A. I. Adaptability and development of Pinus cultivation in relation to classes of seedlings. (In Russian.) Lesn. Khoz. 3:48-49. Jan. 1950. 99.8 L562
- 3286 SCHROEDER, G. H. Seeding of forest land from the air. J. Forestry 48:712-715. Oct. 1950. 99.8 F768
- 3287 SCHUSTER, L. Der eichelhäher als waldbe-gründer. Kosmos 46:411-412. Sept. 1950. 474 K842
- 3288 SEMIKHENKO, P. G. Shelterbelt sowing by the group method in Krasnodar Territory. (In Russian.) Agrobiologiya 1950(3):156-160. May/June 1950. 20 Ag822  
Quercus chiefly.
- 3289 SEROV, I. I. On distributing places for sowing and planting [trees] in the zone of excessive moisture. (In Russian.) Lesn. Khoz. 3(3):92. Mar. 1950. 99.8 L562
- 3290 SHAPOVALOV, A. A. Additional sources for obtaining planting stock for forests. (In Russian.) Lesn. Khoz. 3(2):85-86. Feb. 1950. 99.8 L562
- 3291 ŠPALEK, V. How to cultivate poplars from seed. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:523-532. 1950. 19.5 C332C  
English summary.
- 3292 STAKHEKO, F. G. Mechanization of work in forest nurseries. (In Russian.) Lesn. Khoz. 3(3):56-60. Mar. 1950. 99.8 L562
- 3293 SUPRUNENKO, N. They kept their word with honor. (In Russian.) Les i Step' 2(5):75-76. May 1950. 99.8 L565  
Shelterbelt planting on collective farms of Ivanovo District in Odessa Region.
- 3294 TAKEHANA, I., and MIURA, S. On the regeneration of the natural forest at Haboro region in Hokkaido. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:123. Apr. 25, 1950. 99.8 N62
- 3295 TOLSTONOG, IA. Artificial afforestation in Uzbekistan. (In Russian.) Les i Step' 2(6):73-74. June 1950. 99.8 L565
- 3296 VĬAZOVOI, N. N. Growing Populus from seeds. (In Russian.) Les i Step' 2(6):67. June 1950. 99.8 L565
- 3297 WIEDEMANN, Grundsätzliche fragen der vorratspflege. Allg. Forstz. 5:373-379, 392-395. Sept. 13-20, 1950. 99.8 AL52  
Germany.
- 3298 YAMAHATA, K. On the nurserying of Aleurites fordii and Sapium sebiferum. I. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:105-106. Apr. 25, 1950. 99.8 N62
- 3299 ZARUBIN, A. In regard to renewing Persian walnut [forests] by the sprout method. (In Russian.) Lesn. Khoz. 3(2):46-47. Feb. 1950. 99.8 L562
- 3300 ZHELTIKOVA, T. A. Experiment in growing Pinus seedlings in the nurseries of Uzbekistan. (In Russian.) Lesn. Khoz. 3(2):78-81. Feb. 1950. 99.8 L562

#### Forest Protection and Damage

- 3301 BASHENINA, N. V. Rodents—pests of tree plantings in Stalingrad Region. (In Russian.) Zool. Zhur. 29:255-266. Ref. May/June 1950. 410 R92
- 3302 BAVENDAMM, W. Ergebnisse der holzschutz-forschung. I-III. Weltholzwirtschaft 2:55-56, 74-75, 94-96. Ref. Mar.-May 1950. 99.82 W46
- 3303 BIER, J. E. Forest pathology in relation to Canadian silviculture. Forestry Chron. 26:231-236. Sept. 1950. 99.8 F7623
- 3304 GERBERICH, J. B. Insect enemies and friends of the timber country. Lake States Timber Digest 4(12):1,3. Oct. 1950. 99.81 L14
- 3305 GOTHE, H. Die kalamitäten in fichtenreinbestände neimnal anders gesehen. Allg. Forstz. 5:350-351. Aug. 16, 1950. 99.8 AL52
- 3306 GRANSTRÖM, S. The forest protection boards and the Forest Administration. (In Swedish.) Skogen [Stockholm] 37:63-64, 73. June 15, 1950. 99.8 Sk56



- 3307 GRECHKIN, V. P. Mammals—pests of forest crops. (In Russian.) *Lesn. Khoz.* 3:54-57. Jan.1950. 99.8 L562
- 3308 HORNIBROOK, E. M. Estimating defect in mature and overmature stands of three Rocky Mountain conifers. *J. Forestry* 48:408-417. Ref. Sept.1950. 99.8 F768
- 3309 MINUTILLO, C. Wildverbiss und kulturschutz-kosten. *Allg. Forstz.* 5:349. Aug.16,1950. 99.8 AL52
- 3310 O'BYRNE, W. Agencies destructive to the forests. In *Virginia Academy of Science. James River Project Committee. The James River Basin*, p.413-423. Richmond,1950. 138 V812
- 3311 ORR-EWING, A. L. Rodent control in direct seeding through use of poisons. *Brit. Columbia. Forest Serv. Res. Notes* 17,8 p. 1950. 99.9 B771
- 3312 PIVOVAROVA, M. About the hare. (In Russian.) *Lesn. Khoz.* 3(4):90. Apr.1950. 99.8 L562
- 3313 SCHEDL, K. E. Waldschäden in Kärnten 1949. *Allg. Forstz.* 61:134-138. Aug.1950. 99.8 AL53
- 3314 TÜRCKE, Glaswolle als verbisschutzmittel schadet dem wild nacht. *Allg. Forstz.* 5:349-350. Aug.16, 1950. 99.8 AL52
- 3315 WERGELAND, N. 10 commandments for visits in forests and fields. (In Norwegian.) *Tidsskr. f. Skogbruk* 58:149-150. June 1950. 99.8 T432
- 3316 ZALENSKI, N. E. Protection of the established shelterbelts. (In Russian.) *Lesn. Khoz.* 3:78. Jan.1950. 99.8 L562
- Fire
- 3317 ALLOUARD, P. La lutte contre les incendies de forêts dans les pays tropicaux; examen de l'expérience acquise au Cambodge. *Rev. Internat. des Prod. Colon.* 25:151-156. (To be cont.) Aug./Sept.1950. 286.8 R326
- 3318 AMERICAN FORESTRY ASSOCIATION. Forest fire, a true story of our forests by Smokey, the forest fire preventing bear. Washington,1950. 16 p. 99.51 Am3F
- 3319 BRADO, G. E. A simple lookout training aid. *Fire Control Notes* 11(4):34-35. Oct.1950. 1 F766Fi
- 3320 BURKE, J. P. Use of aircraft in control of lightning fires on Black Hills National Forest [South Dakota]. *Fire Control Notes* 11(4):10-12. Oct.1950. 1 F766Fi
- 3321 CRAMER, O. P. Use your weather records to interpret fire-weather forecasts. *Fire Control Notes* 11(4):41-43. Oct.1950. 1 F766Fi
- 3322 EMERSON, W. J. Use of light pumpers and airplanes on the Superior National Forest [Minnesota]. *Fire Control Notes* 11(4):36-40. Oct.1950. 1 F766Fi
- 3323 EVANS, R. M. Northeastern Interstate Forest Fire Protection Compact. *Fire Control Notes* 11(4):44-46. Oct.1950. 1 F766Fi
- 3324 EVERTS, A. B. CO<sub>2</sub> back-pack outfit. *Fire Control Notes* 11(4):32-33. Oct.1950. 1 F766Fi
- 3325 INOUE, K., and NAKAMOTO, M. An example of the forest fire. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:119-120. Apr.25,1950. 99.8 N62
- 3326 KELLY, A. W., JR. Carelessness remains chief cause of forest fires. *W. Va. Conserv.* 14(7):5-6,33-34. Oct.1950. 279.8 W524
- 3327 KLUGOW, B. The eyes of forest protection. *Wis. Conserv. B.* 15(10):22-24. Oct.1950. 279.8 W572
- 3328 KORUNOV, M. M. Use of bulldozers in putting out forest fires. (In Russian.) *Lesn. Khoz.* 3(4):65-66. Apr.1950. 99.8 L562
- 3329 MCLEES, J. A. South Carolina's type C-150 light suppression plow. *Fire Control Notes* 11(4):26-27. Oct.1950. 1 F766Fi
- 3330 MICHIGAN. DEPT. OF CONSERVATION. Forest fires and forest fire control in Michigan, by J. A. Mitchell and D. Robson. Lansing?1950. 82 p. 99.51 M582Fo
- 3331 MULLIN, H. A. Mullin dozer tooth shank aids in slash disposal and fire line construction. *Fire Control Notes* 11(4):6-9. Oct.1950. 1 F766Fi
- 3332 REYNOLDS, R. D. Fire protection law enforcement trends in California. *J. Forestry* 48:696-699. Oct.1950. 99.8 F768
- 3333 ROCHE, M. D. De nombreux incendies de forêt ont occasionné d'importants dégâts. *Bois et Scieries* 56:841-842. Sept.14,1950. 99.81 B632
- 3334 SCHMIDT, H. N. Forest recreation with fire protection. *Wis. Conserv. B.* 15(9):20-21. Sept.1950. 279.8 W752
- 3335 SIPE, H. "Grass roots" fire prevention. *Fire Control Notes* 11(4):1-3. Oct.1950. 1 F766Fi
- 3336 STAUFFER, J. M. Smoke over the Southeast. *Ala. Lumberman* 2(10):8. Oct.1950. 99.81 AL1
- Forest fires.
- 3337 STEWART, G. I. Michigan power wagon fire unit. *Fire Control Notes* 11(4):24-25. Oct.1950. 1 F766Fi
- 3338 STRADT, G. H. Debris burning on the Ouachita. *Fire Control Notes* 11(4):4-5. Oct.1950. 1 F766Fi
- 3339 U. S. FOREST SERV. REGION 1. Cargo dropper's safety harness—Fire Control Equipment Development Project. *Fire Control Notes* 11(4):20-21. Oct. 1950. 1 F766Fi
- 3340 U. S. FOREST SERV. REGION 1. Cargo parachute experiments—Fire Control Equipment Development Project. *Fire Control Notes* 11(4):13-17. Oct.1950. 1 F766Fi
- 3341 U. S. FOREST SERV. REGION 1. Roller platform for discharging air cargo—Fire Control Equipment Development Project. *Fire Control Notes* 11(4):18-19. Oct.1950. 1 F766Fi
- 3342 WILKINS, A. H. Portable linen hose winder. *Fire Control Notes* 11(4):22-23. Oct.1950. 1 F766Fi
- 3343 WILLIAMS, R. D. Preliminary report on the use of a tractor-plow in the Southern Appalachians. *Fire Control Notes* 11(4):28-31. Oct.1950. 1 F766Fi
- 3344 ZIVNUSKA, J. A., ARNOLD, K., and ARMENT, C. Wild fire damage and cost far-reaching. *Calif. Agr. [Calif. Sta.]* 4(9):8-10. Sept.1950. 100 C12Cag
- California forest fires.
- Forest Influences
- 3345 GAVRILOV, K. A. Effect of various forest crops on the soil. (In Russian.) *Lesn. Khoz.* 3(3):30-35. Mar.1950. 99.8 L562
- 3346 KAS'ANOV. Quantitative and qualitative importance of the role of shelterbelts. (In Russian.) *Lesn. Khoz.* 3:38-45. Jan.1950. 99.8 L562
- 3347 KIRSCHFELD, P. Wald und landschaft. *Naturwiss. Rundschau* 3:414-419. Sept.1950. 474 N216
- 3348 KOLCHIN, A. I. Accelerated snow melting and its utilization [in shelterbelt forestry]. (In Russian.) *Lesn. Khoz.* 3(3):69-73. Mar.1950. 99.8 L562
- 3349 PEREIRA, S. The resistance to "salting" of certain hedges. (In Portuguese.) *Azores. Comis. Regulad. dos Cereais. B.* 6(12):102-103. Second Semes.1950. 15 A26
- Windbreaks in crop protection.
- 3350 PETRAKHILEV, I. Orchard protecting tree belts in the steppe of Siberia. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):23-24. June 1950. 281.8 K83
- 3351 SMITH, J. R. Tree crops. In *Smith, G., ed. Conservation of natural resources*, p.88-104. New York, Wiley,1950. 279.12 Sm5
- In relation to soil conservation.
- 3352 STEUBING. Wald und klima—wo ist überhaupt wald möglich? *Landwirtsch. Weser-Ems* 97:679-680. Aug.24,1950. 18 L2345
- 3353 STEVEN, H. M. Deforestation and agriculture. (In Portuguese.) *Seleg. Agr.* 5(52):79-81. Anz.1950. 9.2 Se4
- Forest Influences.
- 3354 UHLIR, P. The influence of the structure of undergrowth on microclimate, with a view to wind effect. (The methods of measuring.). (In Czech.) *Českoslov. Akad. Zeměděl. Sborn.* 22:419-448. Ref. 1950. 19.5 C332C
- English summary.
- Underbrush as windbreak.
- Miscellaneous Forest Uses
- 3355 FEARNOW, T. Timber & game; twin crops on the Allegheny. *Pa. Game News* 21(7):4-11. Oct.1950. 412.9 P38Pe
- 3356 INGHAM, A. G. Cattle - timber - food trees. *Breeder-Stockman* 12(5):66. Oct.1950. 49 V81
- Southeastern States.
- 3357 MCINTYRE, A. C. Wood chips for "over-grazed" recreational areas. *J. Forestry* 48:724-725. Oct.1950. 99.8 F768



3358 MOSBY, H. S. Cooperative wildlife management on the Virginia State Forests. *J. Forestry* 48:700-702. Oct. 1950. 99.8 F768

3359 NELSON, T. C. Game management in State forests. *Mich. Conserv.* 19(6):27-28. Nov./Dec. 1950. 279.9 M582

3360 TOWELL, W. E. Forests and the land. *Mo. Conserv. Comn. C.* 134:25-31. Aug. 1949. 279.9 M69

#### FOREST INDUSTRIES

3361 BONNER, J. Österreichs holzwirtschaft. *Weltholzwirtschaft* 2:107-109. June 1950. 99.82 W46

3362 DESCH, H. E. The homegrown quandary. *Wood [London]* 15:318-320. Sept. 1950. 99.82 W855  
The homegrown timber trade in England.

3363 GRAGG, F. C. Status of forestry in the pulpwood industry—southern region. *South. Pulp & Paper Mfr.* 13(10-A):12, 14, 16. Oct. 1950. 302.8 So8

3364 HALL, G. The productivity of the forest industry during the last half century. (In Swedish.) *Svensk Trävaru-Tidn. Svensk Pappersmassetidn.* 13/14:772, 775-776, 779-780. July 31, 1950. 99.81 Sv22

3365 HIGGINS, J. M. SPIB [Southern Pine Inspection Bureau] trade promotion policy and problems in military lumber procurement. *Ala. Lumberman* 2(10):14-15, 22-23. Oct. 1950. 99.81 AL1

3366 JONES, A. E. Britain is likely to ask for more lumber. *Timber Canada* 11(2):30, 33-34, 70. Oct. 1950. 99.81 T487

3367 KALLBRUNNER, H. Jugoslawisches Holz für Österreich. *Landwirtschaft* 1950:240. Aug. 1950. 19 L235

3368 KELLER, J. Wirtschaftliche Gesichtspunkte zur Holzartenwahl. *Schweiz. Z. f. Forstw.* 101:453-459. Sept. 1950. 99.8 J82

3369 LIGHTSEY, O. Lumber. *Forest Farmer* 10:6-7. Oct. 1950. 99.8 F7692

3370 SCHINDLER, E. R. How mechanical efficiency is being increased in the southern pine industry. *J. Forestry* 48:705-709. Oct. 1950. 99.8 F768

3371 SCHÖNHERR, H. Holzeinkauf der deutschen Bundesbahn. *Norddeut. Holzwirt.* 4(32):1-2. Aug. 10, 1950. 99.82 N75

3372 SEED, A. The economics of the N. Z. timber industry. *Austral. Timber J.* 16:427-428, 431, 433. July 1950. 99.81 Au7

3373 WEATHERBY, H. Lumber boom in the North. *Brit. Columbia Lumberman* 34(10):42-43, 68, 70. Oct. 1950. 99.81 B77

#### Lumbering

3374 FRYJORDET, T. Cutting performance at varying dimensions. Cutting pay. (In Norwegian.) *Tidsskr. f. Skogbruk* 58:96-97. Apr./May 1950. 99.8 T432

3375 GUSTAFSSON, R. Forest and timber floating worker's approved unemployment insurance. (In Swedish.) *Skogen [Stockholm]* 37:68, 73. June 15, 1950. 99.8 Sk56

3376 LISICHKIN, S. I. Accident prevention in forestry. (In Russian.) *Lesn. Khoz.* 3:81. Jan. 1950. 99.8 L562

#### Lumbering Equipment

3377 ARYKIN, I. G., FREINKMAN, I. E., and LEBEDEV, M. P. First results of using SUTA-1 [equipment] in the lumber industry. (In Russian.) *Lesn. Promysh.* 10(3):13-15. Mar. 1950. 99.82 L56

3378 BALE, A. P. Modern forestry equipment. *Wood [London]* 15:375-379. Oct. 1950. 99.82 W855

3379 BARASHEV, V. F. Ways of decreasing the cost of tractor work. (In Russian.) *Les i Step'* 2(5):59-61. May 1950. 99.8 L565

3380 BIRKENFELD, Leichtmotorsäge - einmannrotte. *Forst u. Holz* 5:268-269. Sept. 1, 1950. 99.8 F7724

3381 CARPELAN, G. Motor saws. (In Swedish.) *Skogsägaren* 26:167. Aug. 1950. 99.8 Sk55

3382 FUZIBAYASHI, M., KATO, S., and MARUYAMA, M. Some experiments on the resistance caused by snowsledges used for tractor-transportation in logging (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:128-129. Apr. 25, 1950. 99.8 N62

3383 HARRIS, K. F. The Wyssen skyline-crane a new development in pulpwood logging. *Canad. Pulp & Paper Indus.* 3(9):8-10, 24, 29. Sept. 1950. 302.8 W52

3384 ILON, B. When does it pay to use the motor saw? (In Swedish.) *Skogsägaren* 26:120-121, 123. June 1950. 99.8 Sk55

3385 KURIN, N. V., and SYCHEV, L. E. Improvement of [log] hauling KT-12 tractor. (In Russian.) *Lesn. Promysh.* 10(4):10-13. Apr. 1950. 99.82 L56

3386 KUZNETSOV, D. V. Drum accelerating device for sorting logs [in booms]. (In Russian.) *Lesn. Promysh.* 10(3):20-21. Mar. 1950. 99.82 L56

3387 MCNALLY, J. A. Skidloader feeds log transfer. (Sum.) *Canada Lumberman* 70(10):50, 96. Oct. 1950. 99.81 C16

3388 MILLER, M. S., and RESHETOV, A. V. Hauling logs with TL-3 winches from a distance up to 500 meters. (In Russian.) *Lesn. Promysh.* 10(4):8-10. Apr. 1950. 99.82 L56

3389 PAVITT, H. A. Steel used in the cutting of wood. *South. Lumberman* 181(226):39-40. Oct. 15, 1950. 99.81 So82

#### Types of saws.

3390 PESTAL, E. Die messung der tragseilspannung nach dem "seilschwingungsverfahren." *Osterr. Gesell. f. Holzforsch. Mitt.* 2:93-95. Aug. 1950. 99.9 Os77

3391 PIMSHTEN, A. S. Loading short-length lumber with an automobile crane. (In Russian.) *Lesn. Promysh.* 10(4):16. Apr. 1950. 99.82 L56

3392 PLATZER, H. B. Die verladerampe im walde. *Forstarchiv* 21:62-66. June 30, 1950. 99.8 F7723

3393 SIMONEN, M. Portable bark-peeling machines in America. (In Finnish.) *Paperi ja Puu. B* 32(8):243-246. 1950. 302.8 P1991

#### English summary.

3394 STESHKIN, V. I. Brigade of mechanized joining [of log booms]. (In Russian.) *Lesn. Promysh.* 10(3):18-19. Mar. 1950. 99.82 L56

3395 TAKAMI, H. On the relation between the forms of the sleds and the resistance. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:126-128. Apr. 25, 1950. 99.8 N62

3396 THIELMANN, K. Ein gang durch die forsttechnische lehrschau der 40. DLG-Wanderausstellung vom 11. bis 18. juni 1950 in Frankfurt a. M. *Allg. Forst.* 5:326-327. Aug. 2, 1950. 99.8 AL52

Equipment at the Deutsche Landwirtschaftliche Gesellschaft show.

3397 ZAITSEV, A. I. Hauling with winches at Kirish logging site [of Lenles Combine]. (In Russian.) *Lesn. Promysh.* 10(4):14-15. Apr. 1950. 99.82 L56

3398 ZALESNYI, N., and GALASHEV, P. Electric crane for loading and unloading lumber. (In Russian.) *Lesn. Promysh.* 10(4):17. Apr. 1950. 99.82 L56

#### Logging

3399 ANDERSEN, S. New views on working technique in forestry. Gustav G. Klem: Work management investigations on cutting and cutting techniques. (In Norwegian.) *Tidsskr. f. Skogbruk* 58:146-149. June 1950. 99.8 T432

3400 BRIUKHOV, S. A. What is the result of the new technology of mechanized logging. (In Russian.) *Lesn. Promysh.* 10(4):5-7. Apr. 1950. 99.82 L56

#### Labor productivity chiefly.

3401 BROWN, N. C. The mechanisation of the logging industry in Canada and the United States. *Wood [London]* 15:354-359. Oct. 1950. 99.82 W855

3402 CHARD, R. Felling and extraction in Britain. *Wood [London]* 15:360-363. Oct. 1950. 99.82 W855

3403 CHEBOTAREV, I. K. Log floating on Kama River. (In Russian.) *Lesn. Promysh.* 10(3):10-11. Mar. 1950. 99.82 L56

3404 DALMATOV, I. A. B. To improve the construction of booms. (In Russian.) *Lesn. Promysh.* 10(3):9-10. Mar. 1950. 99.82 L56

#### For floating logs.

3405 DAROVSKIKH, I. A. To secure the safety of logs in floating. (In Russian.) *Lesn. Promysh.* 10(4):17-18. Apr. 1950. 99.82 L56

3406 EDLIN, H. L. A tree-feller's glossary. *Wood [London]* 15:372-374. Oct. 1950. 99.82 W855

3407 FRERICH, Die einmann-arbeit im fällungsbetrieb. *Allg. Forstz.* 5:344-345. Aug. 16, 1950. 99.8 AL52



3408 GERIMONTE, A. E. Modern logging. Hines Log 7(2):2,4-5,12. 1950. 99.81 H58  
 3409 GOLUBEV, P. Floating [logs] on Unzha River. (In Russian.) Lesn. Promysh. 10(3):12. Mar.1950. 99.82 L56

3410 GONIK, A. A. Development of log floating during the years of Stalin's Five-Year Plans. (In Russian.) Lesn. Promysh. 10(3):5-7. Mar.1950. 99.82 L56

3411 HAHN, J. L. Trends in "exotic" forest utilisation and logging in New Zealand. Austral. Timber J. 16:348,350,353-356. June 1950. 99.81 Au7

3412 KAMLAH, Der einheitstafel für hauerlöhne (EHT) im südhannoverschen hügelnd. Forst u. Holz 5: 239-241. Aug.1,1950. 99.8 F7724

3413 KANO, G., and KOSEKI, T. Studies on forest labour in Hokkaido. On the actual state of forest labourers in winter-logging. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:126. Apr.25,1950. 99.8 N62

3414 MCCULLLEY, R. D. Wet-weather logging may damage seed trees. Va. Forests 5(5):6. Sept./Oct.1950. 99.8 V81

3415 MAKOVEEV, P. G. For a high labor productivity in [log] hauling with KT-12 tractor. (In Russian.) Lesn. Promysh. 10(4):13-14. Apr.1950. 99.82 L56

3416 MIKHEEV, S. D. Effect of hauling [logs] by tractor on reforestation. (In Russian.) Lesn. Khoz. 3(2): 33-38. Feb.1950. 99.8 L562

3417 PLATZER, H. B. Der festmeter-stücksatz bei der verlohnung in der waldarbeit. Allg. Forstz. 5:389-391. Sept.20,1950. 99.8 AL52  
 Germany.

3418 PRILUF'SKII, A. V. Problems of floating in planning [log transportation]. (In Russian.) Lesn. Promysh. 10(3):7-9. Mar.1950. 99.82 L56

3419 SCHINDLER, U. Die ein-mann-arbeit im haaungsbetrieb. Forst u. Holz 5:266-267. Sept.1,1950. 99.8 F7724

3420 SCROGGS, A. A general survey of harvesting methods. Wood [London] 15:364-368. Oct.1950. 99.82 W855

3421 SELIVANOV, P. A. Stakhanovites—raftsmen. (In Russian.) Lesn. Promysh. 10(3):17-18. Mar.1950. 99.82 L56

Efficiency in log floating.

3422 SWABEY, C. Timber handling in British Guiana. Wood [London] 15:370-371. Oct.1950. 99.82 W855

3423 VENET, J. La mécanisation des exploitations forestières vosgiennes. Rev. Forest. Franc. 1950:570-577. Oct.1950. 99.8 R329

#### Sawmills

3424 COBLENTZ, J. F. La scierie de feuillus en France. Bois et Scieries 56:696. July 13,1950. 99.81 B632

3425 HIRAI, S., FUKUI, H., and OKOHIRA, Y. An analytical investigation of the sawing work. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:156. Apr.25,1950. 99.8 N62

3426 KADITA, S., and SUGIHARA, H. A study on finished dimensions of bandsaw blade. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:152. Apr.25,1950. 99.8 N62

3427 LARKINS, R. M. Efficient use of circular saws Scot. Forestry 4:76-77. July 1950. 99.8 Sco3

3428 LIPKA, W. Kreissägeblätter unter dem blickpunkt der rückschlagsicherheit sowie der weiteren technischen entwicklung. Norddeut. Holzwirt. 4(33):8-9. Aug.17,1950. 99.82 N75

3429 LIPKA, W. Reparaturen an stahlgussriegeln von vollgattern. Ist das einziehen von rahmenzapfen möglich? Norddeut. Holzwirt. 4(34):4. Aug.24,1950. 99.82 N75

3430 RAZOUS, P. Les rendements quantitatifs et qualitatifs en sciages. Bois et Scieries 56:692-693,740-741,839-840. (To be cont.) July 13,27,Sept.14,1950. 99.81 B632

3431 RICHARDS, A. H. Woodland cooperative solved their problem in producing lumber. Better Farms 10(3): 4. Sept.1950. 99.8 B462

Organization and operation of the Woodland Products, Inc., which owns and operates a modern sawmill.

3432 SAITO, Y., and HUKUI, H. The study on the circular saw cutting. I. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:152. Apr.25,1950. 99.8 N62

3433 WALKER, J. F., and DOUTY, H. M. Effects of minimum wage in southern sawmills. U. S. Bur. Labor Statist. Mon. Labor Rev. 71:313-317. Sept.1950. 158.6 B87M

3434 WRIGHT, G. W., GOTTSTEIN, J. W., and ROBERTS, H. D. A new Australian portable log edger sawmill. South. Lumberman 181(2269):40-42. Oct.15, 1950. 99.81 So82

3435 WRIGHT, G. W. Swedish sawmilling practice. Austral. Timber J. 16:408-409,411,413,417,419,421,423-424. July 1950. 99.81 Au7

#### Processing and Woodworking

3436 DUPLAN, J. Machines et outils dans le travail du bois. Rev. Internatl. du Bois 17(157,i.e.158): 22. Aug./Sept.1950. 99.8 R326  
 Text also in English.

3437 EBERT, F. A. Maschinelle holzbiegetechnik. Norddeut. Holzwirt. 4(34):6. Aug.24,1950. 99.82 N75

3438 HAYCOCK, A. H. Principles of machine wood-working; jointing cutters. 3. Wood [London] 15:326-329. Sept.1950. 99.82 W855

3439 HEID, F. J. Moulder spindle speeds as related to output and quality of work produced. South. Lumberman 181(2269):70,72. Oct.15,1950. 99.81 So82

3440 HEINRICH, K. Hinweise zur herstellung gebogener teile aus massivholz. Holz 4:74-76. Apr./May 1950. 99.82 H743

3441 HYLER, J. E. Aspects of friction drive. South. Lumberman 181(2269):74. Oct.15,1950. 99.81 So82

Woodworking equipment.

3442 HYLER, J. E. Technique in wood joinery. 4. Use of finger and yankee dovetail joints in end-to-end wood joinery. Natl. Hardwood Mag. 24(9):34-37. Oct. 1950. 99.81 N212

3443 HYLER, J. E. Technique in wood joinery. 5. Cutting and using dovetail joints in end-to-end wood joinery. Natl. Hardwood Mag. 24(10):36-38. Nov.1950. 99.81 N212

3444 HYLER, J. E. Woodworking knife and cutter application. VIII. South. Lumberman 181(2269):64,66,68, 70. Oct.15,1950. 99.81 So82

3445 KOIDE, S., and EGUSA, Y. A study on sharpening of knife edge of rotary lathe and its abrasion or deformation during operation. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:153-154. Apr.25,1950. 99.8 N62

3446 MOLL, F. Giftiges holz und gewerkekrankheiten. Holz 4:76-77. Apr./May 1950. 99.82 H743

3447 PERRY, T. D. Uncommon nails. Wood Prod. 55(10):16-20. Oct.1950. 99.82 W856

3448 SHAW, J. Compensatory allowances make or break wood joinery. Veneers & Plywood 44(11):28. Nov. 1950. 99.82 V55

#### Seasoning, Conditioning and Finishing

3449 BIRUKOV, V. A. High frequency electric drying equipment. (In Russian.) Lesn. Promysh. 10(4): 20-21. Apr.1950. 99.82 L56  
 For drying wood.

3450 BRENTLINGER, P. D. Stacking cross ties for seasoning. Cross Tie B. 31(9):24,26,28,30,32. Sept.1950. 99.82 C87

3451 CONNELLY, H. H. Quality furniture finishing. 1. Why sizing, staining and filling play such important roles in finishing. Natl. Hardwood Mag. 24(9):38-40,47. Oct.1950. 99.81 N212

3452 DEVINE, J. Care and use of automatic controls in dry kiln operations. Natl. Hardwood Mag. 24(9): 42-43,46. Oct.1950. 99.81 N212

3453 GRAHAM, P. H. Furniture finishing; better sanding insures a better finish. Wood Prod. 55(10):29-31. Oct.1950. 99.82 W856

3454 HALL, R. F. Other Unico pigmented paints for exterior wood. Unico Preview 5(10):4-5. Oct.1,1950. 280.28 Un34

3455 MANSELL, R. Application of wood bleaching. Furniture Mfr. 71(10):44,52,58. Oct.1950. 300.8 F982

3456 MANSELL, R. How bleaches are used in the finishing of woods. Furniture Mfr. 71(9):49-51,57. Sept. 1950. 300.8 F982

3457 OSAWA, K. On the drying of flooring boards of Isu by high frequency. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:135. Apr.25,1950. 99.8 N62



3458 PANSIN, A. J. Lumber dry kilns and their operation. 9. Wood Prod. 55(10):20-22. Oct.1950. 99.82 W856

3459 RIETZ, R. C. The problem: have you been experiencing wood fabrication troubles in the spring when the factory switches from winter heating to opening of windows? U. S. Forest Serv. Forest Prod. Lab. News & Views This Kiln Drying Business. Rpt. D1769-2, 1 p. Apr.1950. 1.9 F761R

3460 RIETZ, R. C. The problem: how are kiln samples prepared for use in determining moisture content? U. S. Forest Serv. Forest Prod. Lab. News & Views This Kiln Drying Business. Rpt. D1769-3, 1 p. June 1950. 1.9 F761R

3461 SCOFIELD, F. Color standards for wood office furniture. Natl. Paint, Varnish & Lacquer Assoc. Sci. Sect. C. 742:200-210. Oct.1950. 306.9 P162C

3462 TIEMANN, H. D. The kiln-drying of lumber. 22. South. Lumberman 181(2269):62,64. Oct.15,1950. 99.81 So82

#### Wood Preservation and Damage

3463 BAKER, D. R. Fundamental principles leading to an understanding of wood deterioration. 2. Indus. & Power 59(4):86-88. Oct.1950. 291.8 In2  
Chemical and bacteriological decay.

3464 CAMPREDON, J. L'emploi des bois à l'extérieur. Bois 67(15):1,3. Aug.10/25,1950. 99.82 B632  
Wood preservation.

3465 CAMPREDON, J. La protection des bois exposés aux intempéries. Bois 67(16):1,3. Sept.10,1950. 99.82 B632

3466 DAY, L. Wood preserving. Timber Canada 11(2):23-24. Oct.1950. 99.81 T487

3467 FINDLAY, J. S. Waste from fungal decay after felling. Canada Lumberman 70(10):48,64,68,94. Oct.1950. 99.81 C16

3468 GAUMANN, E. Einige erfahrungen mit boche-risierten leitungsmasten. Schweiz. Z. f. Forstw. 101:401-418. Sept.1950. 99.8 J82

3469 GRINDROD, J. A Swedish method of wood preservation. Chem. & Indus. 1950:668. Sept.23,1950. 382 M31C

3470 HENK, H. J. Flammenschutz für holz und textilen. Chem.-Ztg. 74:447-448. Aug.3,1950. 384 C427

3471 INOUE, Y., and NISHIMOTO, K. Studies on the wood preservatives. IV. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:142. Apr.25,1950. 99.8 N62

3472 MOLL, F. Laboratoriumsversuche zum holz-schutz. Chem.-Ztg. 74:453-455. Aug.3,1950. 384 C427

3473 PASCOE, T. A., and SCHEFFER, T. C. Jack pine pulpwood deterioration in yard storage. Timber Prod. Assoc. Mon. B. 6(2):14. Oct.1950. 99.9 T482

3474 SAKATA, K. Some knowledge on the wood weathering. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:148-149. Apr.25,1950. 99.8 N62

3475 SARLIN, P. Les bois de Nouvelle-Calédonie et les taret. Rev. Agr. de la Nouvelle-Calédonie (n.s.) 1(3/4):3-4. Mar./Apr.1950. 25 R322

3476 SERRA HORTA, M. Conservación de los postes de madera para líneas eléctricas. Rev. Indus. y Fabril 5:356-360,488-495. (To be cont.) June, Aug.1950. 297.8 R322

3477 SHIBAMOTO, T., ABE, H., and KUBOTA, S. Pentachlorophenol and Na-pentachlorophenolate as wood preservatives. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:139. Apr.25,1950. 99.8 N62

3478 SHIMIZU, T., and MIYASAKA, Y. Moisture-proof of wood by treating with acetic anhydride and zinc chloride. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:147-148. Apr.25,1950. 99.8 N62

3479 SIEVERS, H. Holzschutz in der mühle. Mül-lerlei 3:528-529. Aug.26,1950. 298.8 M91

3480 TINTO, J. C. Preservación de maderas. Argentina. Min. de Agr. Almanaque 25:111-115. 1950. 9 Ag874

3481 WRIGHT, J. E. Identificación por cultivo "in vitro" de los hongos destructores de madera. IDIA; In-form. de Invest. Agr. 3(32):17-18. Aug.1950. 9 Id3

#### FOREST PRODUCTS

3482 ALLEN, J. W. Marketing woodlot products in the State of Washington. Wash. Inst. Forest Prod. B. 1, 61 p. 1950. 99.9 W278

3483 AUSTRALIA. COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION. DIV. OF FOREST PRODUCTS. Annual report, 1949-50. South Melbourne, 1950. 39 p. 99.9 Au722R

3484 ELIA, E. D'. Economic aspects of the utilization of the wood from the forests. (In Italian.) Italy. Inst. Cent. di Statist. Ann. di Statist. (ser.8)4:101-174. 1950. 261 Ag8A  
Italy.

3485 GIRAUD, A. L'emploi des sciages de Douglas. Bois 67(15):2. Aug.10/25,1950. 99.82 B632

3486 GT. BRIT. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. FOREST PRODUCTS RESEARCH BOARD. Report of the Forest Products Research Board with the reports of the director of Forest Products Research for the years 1939-1947. London, 1950. 94 p. 99.9 G796R

3487 MCINTYRE, A. C. Increased uses for wood on the farm. J. Forestry 48:397-400. Sept.1950. 99.8 F768

3488 RUSSELL, C. A. Postwar developments in forest products research. J. Forestry 48:685-689. Oct. 1950. 99.8 F768

3489 THORNBUR, W. The development of timber products. Brit. Columbia Lumberman 34(10):39,64,66,68. Oct.1950. 99.81 B77

#### Lumber and Rough Products

3490 NATIONAL LUMBER MANUFACTURERS ASSOCIATION. STATISTICAL DIV. Statistical summary of lumber and hardwood flooring, 1929-50. Washington, D.C., 1950. 15 p. 99.9 N2192

3491 VAN METRE, R. The last fifty years and the next in the cross tie industry. Cross Tie B. 31(10):12,14, 16,18,20. Oct.1950. 99.82 C87

3492 VOGEL, F. H. Poles & piling. Forest Farmer 10:10. Oct.1950. 99.8 F7692

3493 WESTVELD, R. H. Cooperative effort between the cross tie industry and the forestry schools. Cross Tie B. 31(10):22,24,26,28,30,32. Oct.1950. 99.82 C87

#### Building Construction

3494 BASKAKOV, N. Mechanization of construction works at the floating enterprises in the North. (In Russian.) Lesn. Promysh. 10(3):15-16. Mar.1950. 99.82 L56

Chiefly houses.

3495 BOND, W. R. Steel transmission towers floated on timber bases. Wood Preserv. News 28:95-96, 103-104. Aug.1950. 300.8 W853

3496 CAMPREDON, J. Laisserons-nous le fer supplanter le bois dans les hangars agricoles? Bois 67(18):1. Oct.10/15,1950. 99.82 B632

3497 DER HOLZNAGELBAU—eine sparbauweise. Holz 4:83-85. Apr./May 1950. 99.82 H743

3498 MASANI, N. J. Simple calculations in the design of forest bridges of stock spans of 15, 20, 30, and 40 feet. II. Indian Forester 76:383-394. Sept.1950. 99.8 In2

3499 REIMANN, K. Holz ist der beste baustoff. Norddeut. Holzwirt. 4(30):1. July 27,1950. 99.82 N75

3500 RUSSELL, W. A. Expected resistance to racking of Douglas fir plywood-sheathed walls. U. S. Housing & Home Finance Agency. Tech. B. 13:11-15. Mar.1950. 177.3 H11

3501 SAMSONOV, N. A. New prefabricated houses. (In Russian.) Lesn. Promysh. 10(4):22. Apr.1950. 99.82 L56

3502 SCOFIELD, W. F. Wood as a structural material. Fla. Engin. & Indus. Expt. Sta. B. 37:17-19. Sept.1950. 290.9 F66



## Veneers, Plywood and Adhesives

- 3503 BOOTH, F. L. Corestock for flush doors should be chosen carefully. *Veneers & Plywood* 44(11): 20-22. Nov.1950. 99.82 V55
- 3504 DALTON, L. K. Tannin-formaldehyde resins as adhesives for wood. *Austral. J. Appl. Sci.* 1:54-70. Ref. Mar.1950. 475 Au74
- 3505 DIETTERICH, C. W. Quality control in panel fabrication. *Wood Prod.* 55(10):33-36. Oct.1950. 99.82 W856
- 3506 HECK, G. E. Laminated baseball bats. *Wood [Chicago]* 5(10):22. Oct.1950. 99.82 W859
- 3507 HYLER, J. E. Special size glue spreaders designed to fit operations. *Veneers & Plywood* 44(11):12-14. Nov.1950. 99.82 V55
- 3508 KADITA, S., and NAKATO, K. The shrinkage and swelling of the veneer and plywood. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:155. Apr.25,1950. 99.8 N62
- 3509 KOIDE, S. A study of the curve cutted by the knife edge of rotary. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:152-153. Apr.25,1950. 99.8 N62
- 3510 KOIDE, S., and SATO, K. A study on conagulating and harding of aquatic gluing material. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:140-141. Apr.25, 1950. 99.8 N62
- 3511 MAHEU, C. F. Usines de contreplaqué sur la cote pacifique. II. *Rev. du Bois* 5(9/10):9-13. Sept./Oct. 1950. 99.82 R32
- 3512 NAGATA, J., and others. Research for plywood No. 3. On the test of adhesive strength of plywood in the case of defending the bending of plywood by accessory installations. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:154-155. Apr.25,1950. 99.8 N62
- K. Okamoto, H. Tanabe, and Y. Watanabe, joint authors.
- 3513 NAKAMURA, G. On the time effect of bending rotary veneer. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:134-135. Apr.25,1950. 99.8 N62
- 3514 PAGANESSI, G. B. Modern adhesives for the wood industry. (In Italian.) *Indus. del Legno* 2(3):36,38-40;(4):32,34;(5):29-31. Mar.-May 1950. 99.82 In2
- 3515 RUTHER, H. Radialfurniere — ein weg zur holzeinsparung. *Norddeut. Holzwirt.* 4(31):6. Aug.3,1950. 99.82 N75
- 3516 SCHRADER, O. H., JR. Douglas fir plywood for concrete formwork and shuttering. *Wood [London]* 15: 300-304. Sept.1950. 99.82 W855
- 3517 SCHRADER, O. H., JR. Modern plywood faces. *Canad. Woodworker* 50(9):21-23,56,58. Sept.1950. 99.82 C162
- 3518 STEGMANN, G. Werkstoff holz. *Umschau* 50: 468-470. Aug.1,1950. 474 Um7
- 3519 SUGANO, M. On the warping of plywood. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:134. Apr.25,1950. 99.8 N62
- 3520 TAKASHIMA, T. Researches on blood glue. 2. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:142. Apr.25,1950. 99.8 N62
- 3521 WINLUND, E. S. How to boost R. F. gluing production. *Wood [Chicago]* 5(10):20-21,41-42. (To be cont.) Oct.1950. 99.82 W859

## Containers

- 3522 CONNELLY, H. H. From furniture to boxes in war. *South. Lumberman* 181(2269):44,46,48,50,52,54. Oct.15,1950. 99.81 So82
- Box construction.
- 3523 WAGNER, J. B. The rough joint; its cause, effect and remedy. *Barrel & Box & Packages* 55(10):6. Oct.1950. 99.82 B27
- In barrels.
- 3524 WAGNER, J. B. The woodwant: an economic must in tight stock manufacture that may mean the difference between profit and loss. *Barrel & Box & Packages* 55(9):6. Sept.1950. 99.82 B27

## Pulp and Paper

- 3525 ALLEN, B. E. Pulpwood. *Forest Farmer* 10: 7,10. Oct.1950. 99.8 F7692
- 3526 AMERICAN PAPER AND PULP ASSOCIATION. American Paper and Pulp Association indexes of average value per ton for the paper industry. New York,1950. 13 p. 302 Am32A

- 3527 BHARGAVA, M. P., KASBEKAR, G. S., and PATEL, P. J. Utilisation of palmyra stalks for manufacture of bleached writing papers. *Forest Res. Inst. Dehra Dun. Indian Forest L.* 116,6 p. 1949. 99.9 F768
- Borassus flabellifer.
- 3528 BRANDTS, T. G. Overzicht van de semichemische bereidings methoden van celstof. Survey of the semichemical pulping methods. Netherlands Indies Bosbouwproefsta. *Vlugschr.* 5,9 p. Ref. May 1950. 99.9 Ea72V
- English summary.
- 3529 BROMLEY, W. S. Improved methods of handling pulpwood. *Paper Trade J.* 131(17,1.e.18):18-21. Nov.2,1950. 302.8 P196
- 3530 CANADIAN PULP AND PAPER ASSOCIATION. WOODLANDS SECT. Thirty-second annual meeting, proceedings, March 22-24, 1950, Montreal. Montreal, 1950. 29 p. 99.9 C166
- 3531 CLENDENAN, E. F. New B. C. sulphate mill using waste raw forest materials. *Canada Lumberman* 70(10):53,94. Oct.1950. 99.81 C16
- 3532 COTTRALL, L. G. The influence of hemicelluloses in wood pulp fibers on their papermaking properties. *Tappi* 33:471-480. Ref. Sept.1950. 302.8 T162
- 3533 CRUKSHANK, J. W. Pulpwood production in the South, 1949. U. S. Forest Serv. Soeast. Forest Expt. Sta. Forest Survey Release 35,26 p. Sept.1950. 1.9622 A3F76
- 3534 GREIDER, H. W., MACARTHUR, R. A., and GISCHIG, L. C. Rotary screen for laboratory separation of shives from mechanically prepared wood pulp. *Amer. Soc. Testing Mater. ASTM B.* 169:TP213-TP216. Oct. 1950. 290.9 Am34B
- 3535 GUSTAFSSON, G. B. A method for determination of the bleachability of sulphite pulp for paper making. (In Swedish.) *Paperi ja Puu.* B 32(8):223-229. 1950. 302.8 P1991
- English summary.
- 3536 JENSEN, W. Birch as pulp raw material. I. A discussion of the possibilities of using birch veneer waste in sulphate pulping. (In Swedish.) *Paperi ja Puu.* B 32(8):229-233. Ref. 1950. 302.8 P1991
- English summary.
- 3537 KEYO, H. A. The University of Maine. *Paper Trade J.* 131(16):22,24,26,28,30,32. Oct.19,1950. 302.8 P196
- Training in pulp and paper technology.
- 3538 LIBBY, C. E., and O'NEIL, F. W. The manufacture of chemigroundwood pulp from hardwoods. N. Y. State Col. Forestry. Syracuse U. B. 23,42 p. Ref. 1950. 99.9 N486B
- 3539 MEIDELL, A. The forest and the textile industry. (In Norwegian.) *Norsk Tekstil Tid.* 31:260-263. Sept.1950. 304.8 N81
- 3540 MURTFELDT, L. W. Production of neutral semichemical sulphite for high grade book paper. *Canad. Pulp & Paper Indus.* 3(9):12-14. Sept.1950. 302.8 W52
- 3541 MYERS, W. J. Dissolving wood pulp; its development and its utilization. *South. Pulp & Paper Mfr.* 13(10):50,52,54,56,58,60,62,64,66,68,70,72,74,76. Oct.1, 1950. 302.8 So8
- 3542 PAPER and pulp makers; directory of Sweden. Norway, Denmark and Finland, 1950/1951. English ed. 18. Gothenburg,1950. 340 p. 302 P193Ae
- 3543 PAPER and pulp mill catalogue, engineering handbook, 1950-51, twenty-seventh annual ed. Chicago, 1950. 524 p. 302.8 P1927
- 3544 PATTE, W. E. Consistency determination of groundwood slush pulp. (Abs.) *Paper Mill News* 73(42): 37. Oct.21,1950. 302.8 P195
- 3545 PEAT, D. W. Production of bleached mechanical wood pulp. (Abs.) *Paper Mill News* 73(42):37. Oct. 21,1950. 302.8 P195
- 3546 PULP AND PAPER RESEARCH INSTITUTE OF CANADA. Ninth annual report April 1, 1949 to March 31, 1950. Montreal,1950. 52 p. 302.9 P96A
- 3547 REICHERT, J. S. Peroxide bleaching of groundwood. *Paper Trade J.* 131(17,1.e.18):36. Nov.2, 1950. 302.8 P196
- 3548 SHELDON, F. R. Groundwood bleaching variables. *Paper Trade J.* 131(17,1.e.18):37. Nov.2,1950. 302.8 P196
- 3549 SHERMAN, W. A. Use of sulphite waste liquor as road binder. *Paper Trade J.* 131(15):19-20,22,24,26, 28. Oct.12,1950. 302.8 P196



3550 STEVENSON, L. T. Economic aspects of papermaking fibrous raw materials. Paper Trade J. 131(11):26,28,30,32-33. Sept.14,1950. 302.8 P196

3551 TUOVINEN, A. Spring drying of pulp wood in the storage area. (In Finnish.) Metsätaloudellinen Aikakauslehti 6:213-218. 1950. 99.9 F49  
English summary.

3552 VEREIN DER ZELLSTOFF- UND PAPIER-CHEMIKER UND INGENIEURE. Berichte aus wissenschaft und praxis der papierfabrikation; kurzberichte von vorträgen gehalten anlässlich der hauptversammlung vom 27. bis 30. juni 1950 in Konstanz. Textil-Rundschau 5: 376-380. Sept.1950. 304.8 T3139

3553 WELLS, S. D. Alkaline pulping progress in 1949. South. Pulp & Paper Mfr. 13(10):30,32,34,36,42,44, 46,48. Ref. Oct.1,1950. 302.8 So8

3554 WEST, C. J., comp. Pulp and paper manufacture: bibliography and United States patents, 1949. New York, Tech. Assoc. Pulp and Paper Indus.,1950. 283 p. 241.4 W52Pa

#### Chemical Products and Distillates

3555 ALINARI, E. Carbonisation and dry-distillation of wood. (In Italian.) Italia Forest.e Mont. 5:136-141. July/Aug.1950. 99.8 It12  
English summary.

3556 ARIES, R. S., and POLLAX, A. Ligninas comerciales. Ion 10:457-465. Aug.1950. 385 Io6

3557 BIRABEN SCOTT, B. Estudio de las variaciones del contenido en materia curtiende de las hojas de molle (*Lithraea molleoides* (Vell) Engl.). La Plata. U. Nac. Facul. de Clen. Quim. Rev. (1947)22:193-204. Ref. 1949. 385 L31

3558 CLARK, L. M., and LEVY, W. J. A method for separating the constituents of chestnut tannin. J. Sci. Food & Agr. 1:213-214. July 1950. 382 So12

3559 DUNLAP, L. H., HASSEL, L. V., and MAXWELL, J. L. The selective esterification of tall oil. Amer. Oil Chem. Soc. J. 27:361-366. Ref. Oct.1950. 307.8 J82

3560 FOWLER, M. E. Prevent tanbark deterioration. U. S. D. A. L. 286,7 p.-folder. Aug.1950. 1 Ag84L  
Revision of U. S. D. A. AWI-82.

3561 FUKUYAMA, G., and others. Studies on the wood carbonization. Some properties of carbonized substances prepared by various processes. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:145. Apr.25,1950. 99.8 N62

M. Hanzawa, H. Komazaki, and S. Satonaka, joint authors.

3562 HILBERT, F. L. Extraction of sumac; a detailed description of the commercial processing of sumac. Leather & Shoes 120(15):11,31-32. Oct.7,1950. 303.8 H53

3563 HILBERT, F. L. Sicilian sumac. Leather & Shoes 119(7):20,22. Feb.18,1950. 303.8 H53

3564 JACINI, G. Contribution to the knowledge of tall oil. (In Italian.) Chim. e l'Indus. 32:328-334. Ref. July 1950. 385 G43

3565 KAHILA, S. The tall oil content in black liquor from sulphate mills. (In Finnish.) Paperi ja Puu. B 32(8):238-242. 1950. 302.8 P1991

English summary.

3566 KISHIMOTO, S., and NAITO, K. Studies on the mechanism of combustion of charcoal. Inorganic constituents of chestnut (*Castanea* sp.) charcoal and hemp (*Cannabis* sp.) stem charcoal. I. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:144. Apr.25,1950. 99.8 N62

3567 MÜLLER, O. A., and STALDER, F. Beiträge zur gerbstoffbestimmung in vegetabilen und synthetischen gerberextrakten. II-III. Leder 1:159-162. July 15,1950. 303.8 L492

3568 SAKAKIBARA, A. Studies on the dry distillation oil of *Todomatsu* (*Abies sachalinensis*) bark. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:139. Apr.25, 1950. 99.8 N62

3569 SANO, S. Manufacture of furfural from wood. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:140. Apr.25,1950. 99.8 N62

3570 SUSMEL, L. Characters and recognition of the principal wood carbons. (In Italian.) Italia Forest.e Mont. 5:149-155. July/Aug.1950. 99.8 It12

3571 VERONA, O. Wood in the fermentative industries. (In Italian.) Italia Forest.e Mont. 5:142-146. July/Aug.1950. 99.8 It12

English summary.

3572 WOODROFFE, D. *Acacia catechu* and its properties. Tanner 5(4):18-19. Sept.1950. 303.8 T15

3573 YOSHIMURA, M. On the distributions of temperature inside the charcoal-kiln "report 1." The experimental equipments and the distributions of temperature at height of 40cm. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:144-145. Apr.25,1950. 99.8 N62

#### Naval Stores

3574 ARIAS, R. S., and GARCIA GRIMALT, J. M. Desarrollo moderno de la industria resinera. Rev. Indus. y Fabril 5:479-487. Aug.1950. 297.8 R322

3575 BESSER, A. A. Use of metabolic stimulants in turpentine production. (In Russian.) Akad. Nauk SSSR. Dok. 72:1143-1146. June 21,1950. 511 P444A

Effect of heteroauxin and  $\alpha$ -naphthaleneacetic acid on resin production in *Pinus*.

3576 CLEMENTS, R. W. Results of 1949 pilot-plant tests of chemical stimulation. Nav. Stores Rev. 60(27): 15,26-27. Sept.30,1950. 99.81 N22

3577 DESILVIA, E. R. Combination bark shaver and sawtool does good job of virgin installation. Forest Farmer 10:8,12. Oct.1950. 99.8 F7692

Gum extraction.

3578 FREEMAN, R. E. Trends in gum processors' margins. AT-FA Journal 13:6-9. Oct.1950. 309.8 Am3

3579 NAVAL STORES REVIEW. International year-book, 1950. New Orleans,1950. 114 p. 309 G14N

3580 PIGULEVSKIĬ, G. V., and NETUPSKAIĬA, S. V. Analysis of chemical composition of turpentine from resin of *Pinus* [cembra] sibirica. (In Russian.) Zhur. Prikl. Khim. 23:724-731. July 1950. 385 Z64

3581 RYBERG, M. E. Better tools for gum production. AT-FA Journal 12(11):10-11,18. Aug.1950. 309.8 Am3

3582 SCHOPMEYER, C. S. Fall vs spring clean-up streak for acid treated faces. At-FA Journal 13:10-11. Oct.1950. 309.8 Am3

3583 SHINGLER, G. P. High yielding pines—they're the missing link in gum naval stores. Nav. Stores Rev. 60(31):15,24-27. Oct.28,1950. 99.81 N22

3584 U. S. PRODUCTION AND MARKETING ADMIN. World trends in supply, distribution, and prices of naval stores, 1934-49, by H. B. Wagner. Washington,1950. 95 p. 1.956 T55W89

#### Other Forest Products

3585 ANDRADE, A. B. DE. A course on the use of cork for heat and sound insulation. (In Portuguese.) Portugal. Junta Nac. da Cortica. B. 141:259-266,287-293. July-Aug.1950. 309.9 J96

3586 BACCI, G. Cork in building. (In Italian.) Indus. del Legno 2(2):26-28. Feb.1950. 99.82 In2

3587 BROWN, B. F., JR. Production and conversion experiences in machine coating of board. South. Pulp & Paper Mfr. 13(10-A):31-32. Oct.15,1950. 302.8 So8  
Fiberboard.

3588 CAUGHEY, R. A. Synthetic board materials from wood waste. South. Lumberman 181(2269):38-39. Oct.15,1950. 99.81 So82

3589 KLAUDIZ, Stand der herstellung von holzfaser- und holzspanplatten. (Sum.) Textil-Rundschau 5: 377. Sept.1950. 304.8 T3139

3590 MCINTYRE, A. C., and MIRANTZ, M. Bedding from your wood lot. Farm J. 74(11):34. Nov.1950. 6 F2212

Utilization of wood waste.

3591 MCLEAN, G. K. Compreg-resin treated densified wood. Timber Canada 11(2):19-22,67. Ref. Oct. 1950. 99.81 T487

3592 MARANGONI, L. Cork and its economy. (In Italian.) Indus. del Legno 2(1):32-34;(5):36,38-39;(6):33-34. Jan.,May-June 1950. 99.82 In2  
Italy.

3593 MARTINIE, J. D. DE LA. A new use for cork. Portugal. Junta Nac. da Cortica. B. 140:241-245. June 1950. 309.9 J96

Text also in Portuguese.

3594 MARTINS, C. M. A. British market. B. Consumption of rolls of natural cork. (In Portuguese.) Portugal. Junta Nac. da Cortica. B. 142:295-296. (Cont.) Aug.1950. 309.9 J96

3595 MURATA, T. Studies on the preparation of moulding made from bark. I. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:137-138. Apr.25,1950. 99.8 N62



3596 MUSSHAKE, A. Die anwendungsmöglichkeit der holzfaser-platten im apparatebau. Holz 4:73-74. Apr./May 1950. 99.82 H743

3597 NORMAND, J. Tunisie: le démasclage des lièges en Kroumirie. Bois et Scieries 56:727. July 20, 1950. 99.81 B632

3598 NOTES on production—the cork industry. Portugal. Junta Nac. da Cortica. B. 140:225-239. June 1950. 309.9 J96

Text also in Portuguese.

3599 PERES, E. Propaganda as a factor in the development of the Portuguese cork industry. (In Portuguese.) Portugal. Junta Nac. da Cortica. B. 141:272-274. July 1950. 309.9 J96

3600 RISI, J. Conservation par l'utilisation des déchets de bois. Forêt et Conserv. 2:817-823. (To be cont.) Sept. 1950. 99.8 F792

3601 ROTH, C. Tannzapfen als industrie-brennstoff. Wald u. Holz 31:249-253. Aug. 1950. 99.8 W14

3602 RUNKEL, R. O. H. Neuere forschungen auf dem gebiete der holzplastizierung. (Sum.) Textil-Rundschau 5:377-378. Sept. 1950. 304.8 T3139

3603 TOULET, L. A little history. (In Portuguese.) Portugal. Junta Nac. da Cortica. B. 141:269-271. July 1950. 309.9 J96

#### WOOD TECHNOLOGY

3604 CHAKRAVARTI, D., and SEN, B. A note on the isolation of sakuranin, a glucoside from the bark of *Prunus pudum* (N. O. Rosaceae). Indian Chem. Soc. J. 27: 148-150. Mar. 1950. 385 In27

3605 FREUDENBERG, K., and KRAFT, R. Methylliertes fichtenlignin und seine künstliche nachbildung. Chem. Ber. 83:530-533. Oct. 1950. 384 B45

3606 FREUDENBERG, K. Natürliches und künstliches lignin. (Sum.) Textil-Rundschau 5:378-379. Sept. 1950. 304.8 T3139

3607 FREUDENBERG, K., and others. Ultrarotspektren von lignin und ligninähnlichen stoffen. Chem. Ber. 83:533-538. Oct. 1950. 384 B45

W. Siebert, W. Helmberger, and R. Kraft, joint authors.

3608 FUKUYAMA, G., HANZAWA, M., and KAWASE, K. Chemical studies on the decayed wood. IV. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:145. Apr. 25, 1950. 99.8 N62

3609 GOODLOE, P. M., MCMURTRIE, D. H., and VAN NOSTRAND, R. J. Basic effects of wood cellulose as a filler in rubber. Rubber Age 34:687-690. Sept. 1950. 305.8 R82

3610 HORIOKA, K., and WADA, S. Research for the electro-phoresis of wood. 1. On the electro-phoresis of wood in water. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:136. Apr. 25, 1950. 99.8 N62

3611 INOSE, O. Treatment of wood with tablesalt solution, especially on the selective adsorption of water. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:137. Apr. 25, 1950. 99.8 N62

3612 ISHIKAWA, H. Study on the lignin. V. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:140. Apr. 25, 1950. 99.8 N62

3613 KAWAMURA, I. Lignin of tropical wood. I. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:146. Apr. 25, 1950. 99.8 N62

3614 KISSER, J., KÖLI, G., and STEININGER, A. Mikroskopische untersuchungen an holzfaserdämmplatten. Osterr. Gesell. f. Holzforsch. Mitt. 2:85-93. Ref. Aug. 1950. 99.9 Os72

3615 LAMB, G. N. Foreign woods, origin, use, properties and nomenclature. Wood Prod. 55(8):26-27. Aug. 1950. 99.82 W856

3616 MEREWETHER, J. W. T. Studies on the lignin of Eucalyptus regnans. IV. Austral. J. Sci. Res. Ser. A. Phys. Sci. 2:600-607. Ref. Dec. 1949. 475 Au73

3617 MIGITA, N., KANDA, T., and HASHIMOTO, Y. Chemical studies of cork substance. I. Chemical composition of cork of *Quercus variabilis*. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:143. Apr. 25, 1950. 99.8 N62

3618 MIYAKE, I., and SUGIURA, G. Researches on active carbons from the stalks of Nemagari-dake as a raw materials. (2nd report) (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:144. Apr. 25, 1950. 99.8 N62

3619 MIYAZAKI, K., and YONEZAWA, Y. On extraction of components in beech-tree by several chemicals. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:138. Apr. 25, 1950. 99.8 N62

3620 MOLOTKOV, P. I. Improvement of Alnus wood. (In Russian.) Lesn. Khoz. 3:75. Jan. 1950. 99.8 L562

3621 MORELOCK, O. J., and BLERKOM, L. VAN. How to get the most from moisture meters. Wood [Chicago] 5(10):19,38-39. Oct. 1950. 99.82 W859

Determining moisture content of wood.

3622 PARIHAR, D. B., and DUTT, S. Chemical examination of the wood of *Cedrela toona*, Roxb. Isolation of a lactone, an essential oil and a colouring matter. Indian Chem. Soc. J. 27:77-80. Feb. 1950. 385 In27

3623 SARRAILLET, J. M. Carbones activos de alamo, sauce y ceibo. La Plata. U. Nac. Facul. de Cien. Quím. Rev. (1947)22:91-109. 1949. 385 L31

Summary of a thesis.

*Populus nigra*, *Salix babylonica*, and *Erythrina cristagalli*.

3624 SIMES, J. J. H. The constituents of the wood of *Castanospermum australe* Cunn. et Fras. I. Chem. Soc. J. 1950:2868-2870. Oct. 1950. 382 L84J

3625 SOHN, A. W. UV-adsorptionsspektren von lignin und ligninartigen substanzen. (Sum.) Textil-Rundschau 5:380. Sept. 1950. 304.8 T3139

3626 TAKASHIMA, T., and KUBO, T. The studies on the wood-carbonization. 1st report. The change of the orientation of non-cellulosic crystals during the wood-carbonization process. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:145. Apr. 25, 1950. 99.8 N62

3627 TARKOW, H., and STAMM, A. J. Wood—an example of a colloid system. In Alexander, J., ed. Colloid chemistry, v.7, p.619-640. Ref. New York, Reinhold, 1950. 386 AL22C

3628 VOGEL, F. H. Impregnation of wood with solid metal alloys. South. Lumberman 181(2268):48,50. Oct. 1, 1950. 99.81 So82

3629 WACEK, V. Über die bindung der lignin-kohlenhydrate. (Sum.) Textil-Rundschau 5:379. Sept. 1950. 304.8 T3139

3630 WAGNER, J. Beitrag zur frage der verwendung von lignin-extrakten für die gerbung von vegetabilien. Ledertech. Rundschau 2:223-228. (Cont.) 1949? 303.8 L49

3631 YOKOTA, T. On the components of seed oil of *Pinus pumila*. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:139. Apr. 25, 1950. 99.8 N62

#### Properties and Structure

3632 ABE, U. Laboratory tests on the durability of coniferous in Hokkaido. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:136. Apr. 25, 1950. 99.8 N62

3633 ALEXANDER, J. B. The physical and mechanical properties of second-growth Douglas fir. Amer. Soc. Testing Mater. ASTM B. 169:TP219-TP224. Oct. 1950. 290.9 Am34B

3634 ASO, K. Study on the specific weight of wood substance by the water displacement method. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:132. Apr. 25, 1950. 99.8 N62

3635 BOYD, R. J. Influence of nail head size and slat thickness on pull-through resistance of Colorado woods. (Abs.) J. Forestry 48:396. Sept. 1950. 99.8 F768

3636 CHEVEDAEV, A. K. Importance of technical properties of wood for forestry. (In Russian.) Lesn. Khoz. 3(2):48-53. Feb. 1950. 99.8 L562

3637 EYRES, H. T. The wearing properties of wood floors. 1-2. Wood [London] 15:305-308,343-346. Sept.-Oct. 1950. 99.82 W855

3638 FONS, W. L. Heating and ignition of small wood cylinders. Indus. & Engin. Chem. 42:2130-2133. Ref. Oct. 1950. 381 J825

3639 FRITZ, E. Mechanical properties of second-growth redwood and comparison with virgin timber. Amer. Soc. Testing Mater. ASTM B. 169:TP216-TP218. Oct. 1950. 290.9 Am34B

*Sequoia sempervirens*.

3640 KADITA, S., and KUROYANAGI, S. Study on the plasticity of wood. I-II. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:132-134. Apr. 25, 1950. 99.8 N62



- 3641 KINGSTON, R. S. T. The mechanical properties of red tulip oak (*Argyrodendron peralatum* (Bail.) C. T. White). *Austral. J. Appl. Sci.* 1:21-53. Ref. Mar. 1950. 475 Au74
- 3642 MAKU, T. Relation between the moisture content and heat conduction in wood. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:147. Apr. 25, 1950. 99.8 N62
- 3643 MATHEWSON, J. S. Behavior of radiant heated hardwood floors. *Heating & Ventilating* 47(9):63-66. Sept. 1950. 291.8 H35
- 3644 MATSUMOTO, T., and SUGAHARA, T. Mechanical study on the heart-wood (preliminary report). (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:131. Apr. 25, 1950. 99.8 N62
- 3645 NAKAMURA, K., and MITSUHASHI, K. Anatomical characters of gall-wood on "akamatsu" (*Pinus densiflora*). (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:136. Apr. 25, 1950. 99.8 N62
- 3646 OGATA, S. Studies on the abrasion of wood. IV-V. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:150-151. Apr. 25, 1950. 99.8 N62
- 3647 OHARA, J., and SAKAMOTO, Y. The strength of kitaya polished log. (*Cryptomeria japonica* D. Don). (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:149-150. Apr. 25, 1950. 99.8 N62
- 3648 OKAZAKI, A. Studies on the hydro-physiological properties of *Obisugi*. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:116. Apr. 25, 1950. 99.8 N62
- 3649 OKOHIRA, Y. Moisture-strength relation in the compression perpendicular to the grain of *Chamaecyparis obtusa* Sieb. et Zucc. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:146. Apr. 25, 1950. 99.8 N62
- 3650 OTA, M. Studies on the properties of bamboo stem. 4. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:151. Apr. 25, 1950. 99.8 N62
- 3651 RICHARDS, D. B. Decay resistance and physical properties of wood. *J. Forestry* 48:420-422. Ref. Sept. 1950. 99.8 F768
- 3652 SAWADA, M. On the elasticity and strength of *Yezo-matsu* (*Picea jezoensis* Carr.). (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:132. Apr. 25, 1950. 99.8 N62
- 3653 STAMM, A. J. Specific volume of native cellulose. *Textile Res. J.* 20:631-636. Ref. Sept. 1950. 304.8 T293
- Wood.
- 3654 SUZUKI, Y., and MIYATA, T. Changes of physical and mechanical properties of *Phyllostachys pubescens* Magel. et H. de Lehaie due to ageing. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:135. Apr. 25, 1950. 99.8 N62
- 3655 TOYAMA, S., and others. The properties of "Kuromatsu No. 26" wood. 4. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:142-143. Apr. 25, 1950. 99.8 N62
- J. Nagata, K. Okamoto, and M. Yoshida, joint authors.
- 3656 YAMAMOTO, T. On the frequency characteristics of dielectric properties of wood. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:135-136. Apr. 25, 1950. 99.8 N62
- 3657 YAZAWA, K., TATE, S., and IWATA, H. Research on the specific gravity, water content in the green condition, volumetric shrinkage for trunk and branches and the specific gravity, water content in the green condition, volumetric shrinkage of the springwood and summer-wood of Japanese red pine. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:147. Apr. 25, 1950. 99.8 N62
- 3660 BONADONNA, T. What is spent and what is earned by practicing artificial insemination. II. (In Italian.) *Agricoltura [Milano]* (n.s.) 31(42):1-2. Oct. 21, 1950. 16 Ag862
- 3661 BORZONI, G. Artificial insemination of animals. (In Italian.) *Agr. Romagn.* 1950(15/16):1. Aug. 10, 1950. 16 Ag828
- 3662 CHIEFFI, A. Selection of breed and breeding stock. (In Portuguese.) *Soc. Rur. Brasil. Rev.* 30(356):20-24. July 1950. 9.2 B733
- Livestock.
- 3663 CRUZ, C. S. Words for breeders. (In Portuguese.) *Gaz. do Agr.* 2:155-159. (Cont.) July 1950. 24 G25
- 3664 CUGNINI, G. Genetic bases for the morpho-functional selection of livestock. (In Italian.) *Campagnolo* 5(7/8):1-3. (To be cont.) July/Aug. 1950. 16 C15
- 3665 CURASSON, G. Les climats chauds et l'activité sexuelle. *Rev. d'Elevage et de Méd. Vét. des Pays Trop.* 3:139-145. July/Sept. 1949. 41.8 R3262
- 3666 DOBY, P. B. Artificial insemination has proved itself in Arkansas. *Ark. Farmer* 52(10):12-13. Oct. 1950. 6 Ar42
- 3667 FABBRI, R. Progress in artificial insemination. (In Italian.) *Agr. Ferrarese* 54:155-158. July 31, 1950. 16 Ag87
- 3668 FRANK, A. H. Artificial insemination in livestock breeding. *U. S. D. A. C.* 567, rev., 71 p. Ref. June 1950. 1 Ag84C
- 3669 GEDROYC, M. The role of organopreparations in the development of the Państwowa Akcja Hodowlana—State Breeding Action (Action H) of domestic animals. (In Polish.) *Med. Weter.* 6:141-144. Ref. Mar. 1950. 41.8 M463
- 3670 JAUFFRET, L. Les cooperatives d'élevage et l'insemination artificielle dans l'Yonne et le Loiret. *Potasse* 24:148-150. Oct. 1950. 57.8 P84
- 3671 LLORENS, M. A. La inseminación artificial debe estar bien organizada. *Mundo Agr.* 2(15):98. Aug. 1950. 9 M92
- 3672 MASSIRONI, G. How the centre of artificial insemination at Vimercate came into existence. (In Italian.) *Zootec. e Vet.* 5:641-642. July 1950. 41.8 Z7
- 3673 MONTMAGNY, C. DE. Le pour et le contre de l'insemination artificielle. *Vie à la Campagne* 39:224-226. July 1950. 80 V67
- 3674 OLBRYCHT, T. Basis of the development of the Michurin zootechnics in the Soviet Union. (In Polish.) *Med. Weter.* 6:335-340. June 1950. 41.8 M463
- 3675 OLIVE, J. P. Où en est la question de l'insemination artificielle? *Agr. Prat.* 114:407-409. Sept. 1950. 14 J82
- 3676 OUELLET, A. La publicité en élevage. *Digeste de l'Éleveur* 4(10, i.e. 11):16-18. July 1950. 49 D56
- 3677 PHILLIPS, R. W. Improving livestock under tropical and subtropical conditions; report of the FAO meeting on livestock breeding under tropical and subtropical conditions, held in Lucknow, U. P., India, 13-22 February 1950. *Food & Agr. Organ. United Nations. FAO Devlpmt. Paper* 6, 53 p. Ref. July 1950. 281.9 F733
- 3678 PINON, J. C. La higiene y la inseminación artificial. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 333:10-11. Aug. 10, 1950. 9.9 G15B
- 3679 ROBERTSON, A. The science of genetics. *Trop. Agr. [Ceylon]* 105:127-131. July/Sept. 1949. 26 T741
- Animal breeding.
- 3680 SACCO, P. Critique and limits of artificial insemination. (In Italian.) *Allevatore* 6(28):7. July 16, 1950. 49 AL55
- 3681 SAVI, P. Activity at the centre of artificial insemination of "Malpaga." (In Italian.) *Zootec. e Vet.* 5:638-640. July 1950. 41.8 Z7
- 3682 SCHIERMANN, D. Das für und wider der künstlichen Besamung. *Landbote* 4(29):4. July 22, 1950. 18 L2336
- 3683 SCHMIDT, R. Gedanken zur Neuordnung der Tierzucht. *Wien. Tierärztl. Monatsschr.* 37:665-676. Oct. 1950. 41.8 T345
- 3684 VAITSMAN, J. Selection of sires. (In Portuguese.) *Agr. e Pecuária* 21(324):25-26. July 1950. 9.2 Ag89
- 3685 WINTERS, L. M. What we can gain from European stock breeders. *Successful Farming* 48(10):164, 166-168. Oct. 1950. 6 Su12

## ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

## BREEDS AND BREEDING

- 3658 BAL'MONT, V. A. Novye porody sel'skokho-ziaistvennykh zhivotnykh, sozdannye na osnove michurinskogo ucheniia [New breeds of farm animals developed on the basis of Michurin's teaching]. *Moskva*, 1950. 31 p. 40 B212
- 3659 BONADONNA, T. Artificial insemination. (In Italian.) *Gior. di Agr.* 60:245-256. July 30, 1950. 16 It1G



## FEEDS AND FEEDING

- 3686 ACKERSON, C. W. General principles of nutrition. (Extr.) Grain & Feed J. Consolidated 105(4):23-24. Aug.23,1950. 298.8 G762  
Livestock feeding.
- 3687 ALLEN, N. N., BOHSTEDT, G., and DUFFEE, F. W. How about grass silage? Some suggestions on making and feeding it. Wis. Agr. Col. Ext. Stencil C. 277,rev.,13 p. Aug.1950. 275.29 W75B
- 3688 ANWANDTER E., F. Las empastadas. Tractorista 3(13):7. May 1950. 58.8 T676
- 3689 AXELSSON, J. Livestock, the microflora and the feed. (In Swedish.) Lantmannen 34:727-728. Sept. 23,1950. 11 L234
- 3690 AXELSSON, J. Relation between chemical composition and nutritive value of grassland crops. Internatl. Grassland Cong. Rpt. 5:266-277. 1949. 60.19 In85R  
Includes discussion.
- 3691 BARBA, A. DELLA. Leaves from trees in livestock nutrition. (In Italian.) Agr. Bresclana 3(38):2. Sept.20,1950. 16 Ag89
- 3692 BARDT, R. Das richtige eiweissverhältnis. Hannoversche Land- u. Forstwirt. Ztg. 103:558. June 10, 1950. 18 H194  
In livestock nutrition.
- 3693 BARNETT, A. J. G. Ensilage of crops. Chem. Prod. (n.s.)13:405-407. Ref. Oct.1950. 382 C428
- 3694 BARRANDEGUY, E. A. Las proteínas en la alimentación animal. Argentina. Min. de Agr. Almanaque 25:345-348. 1950. 9 Ag874
- 3695 BELLE, G. Les principaux tourteaux alimentaires commercialisés au Maroc; valeur alimentaire-rationnement. Terre Maroc. 24:349-356. Sept.1950. 24 T44
- 3696 BENDIXEN, H. C. Auftreten von kobaltmangel bei wiederkäuern in Dänemark. Deut. Tierärztl. Wchnsch. 57:285-291. Sept.15,1950. 41.8 D482
- 3697 BEREZOVSKI, A. A. Ensilage of feeds. (In Russian.) Sotsialist. Zhivotn. 12(4):36-40. Apr.1950. 49 So71
- 3698 BETHKE, R. M. Mineral indispensable in feeds. (Digest.) Feed Bag 26(10):32,86. Oct.1950. 389.78 F32
- 3699 BICKOFF, E. M., LIVINGSTON, A. L., and SNELL, N. S. The occurrence of vitamin B<sub>12</sub> and other growth factors in alfalfa. Arch. Biochem. 28:242-252. Ref. Sept.1950. 381 Ar2
- 3700 BIRD, H. R. Antibiotics in feed. Feedstuffs 22(40):15. Oct.7,1950. 286.81 F322
- 3701 BLIN, H. L'utilisation des marrons d'Inde. Monit. Agr. 3(130):4. Oct.8,1950. 14 M744  
As livestock feed.
- 3702 BOOKHOUT, B. R., and VARY, K. Cutting costs of corn silage. Mich. Farmer 214:149,168. Sept. 2,1950. 6 M58
- 3703 BORGIOLO, E. The vitamin requirements of domestic animals. (In Italian.) Riv. di Zootec. 23:238-240. July 1950. 49 R52
- 3704 BRÜGGEMANN, H. Stoppelklee und rübenblatt. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1205. Aug.31,1950. 18 L2346  
As feed.
- 3705 BUTYRINA, P. F., and PERMINOVA, A. P. Hay harvesting in Southern Sakhalin. (In Russian.) Sotsialist. Zhivotnovod. 12(5):30-33. May 1950. 49 So71
- 3706 CABANILLA, C. E. The grazing capacity of pastures. Philippine Agr. 33:111-119. Oct./Dec.1949. 25 P542
- 3707 CARL. Fütterungsversuche und versuchsplanungen. Hannoversche Land- u. Forstwirt. Ztg. 103:335-336. Apr.1,1950. 18 H194
- 3708 CHAMPEVAL. Appréciation de la valeur nutritive du maïs-fourragier. Volx des Colons 32(1572):1-2. Sept.4,1950. 24 V85
- 3709 CLELAND, S. B. How much hay silage can you get into your silo? Midland Coop. 18(11):7. Oct.16, 1950. 280.23 M58
- 3710 CLER, G. O. Avitaminosis en los animales. Charla Rur. 137:32-33. Mar.1950. 9 C37
- 3711 CORRIE, F. E. Feeding farm animals. 28. Fert. Feed-Stuffs & Farm Supplies J. 36:573-575. Sept. 20,1950. 57.8 F413
- 3712 CRAMPTON, E. W. Feed substitution in commercially prepared balanced rations—and some of its consequences. Feedstuffs 22(37):60-63. Sept.16,1950. 286.81 F322
- 3713 CRASEMANN, E., and HEINZL, O. Neuere untersuchungen betreffend die gärfutterbereitung. Internatl. Grassland Cong. Rpt. 5:288-297. 1949. 60.19 In85R  
English summary.  
Includes discussion.
- 3714 CUNHA, T. J. Antibiotic effect may differ. Feedstuffs 22(40):12. Oct.7,1950. 286.81 F322  
In feeds.
- 3715 DENMARK. STATENS FODERSTOFKONTROL. 23. beretning fra Statens Foderstofkontrol; Kontrollens virksomhed i tiden 1. september 1948 til 31. august 1949 [23rd report of the State Feed Control; the activities of the Control from September 1, 1948 to August 31, 1949]. København,1949. 160 p. 389.79 C79
- 3716 DIAKOV, F. A. Determination of biological values of proteins in some feeding stuffs from the standpoint of pathology, growth and nutrition. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:501-523. Ref. 1950. 19.5 C332C  
English summary.
- 3717 DIJKSTRA, N. D., and FRENS, A. M. The digestibility and feeding value of the expeller flakes of Mbocaja-(Paraguay-) palm kernels. (In Dutch.) Landbk. Tijdschr. 62:550-555. July 1950. 105.2 Or3  
English summary.
- 3718 DÖSSING, P. Silos in 1949 as well as use of silage crops and fresh beet tops of the 1949 crop. (In Danish.) Tidsskr. f. Landøkon. 1950:433-466. Sept.1950. 11 T43
- 3719 DUCKWORTH, J. The mineral needs of farm stock. Farming [Norwich] 4:287-270,274. Sept. 1950. 10 F2236
- 3720 ELLMORE, M. F. From sour hay to modern silage. Jersey B. 69:1698,1700,1702. Oct.25,1950. 43.8 J48
- 3721 ELVEHJEM, C. A. The essentials in nutrition. Feedstuffs 22(39):26-28,30-32. Sept.30,1950. 286.81 F322
- 3722 GALVIN, P. J. Kentucky 31 fescue, a grass for heavy grazing. Tex. Livestock J. 9(9):8,38. Sept.15, 1950. 49 T29
- 3723 GARNER, R. J. Availability of the magnesium of grass to the ruminant. Nature [London] 166:614. Oct.7,1950. 472 N21
- 3724 GIESECKE, F. Natürliche sicherung des silofutters. Landbote 4(35):7. Sept.2,1950. 18 L2336
- 3725 GOMUTPUTRA, C. The use of hormones in inducing ovulation and subsequent fertility in domestic animals. Vet. Assoc. Thailand. J. 2(3):61-68. Ref. July 1950. 41.9 S112
- 3726 GROENEWALD, J. W. Phosphate-feeding to livestock on veld grazing. Farming So. Africa 25:213-215, 232. July 1950. 24 So842
- 3727 HAFNER, F. H. The urease story. Feedstuffs 22(41):27-28. Oct.14,1950. 286.81 F322
- 3728 HALPIN, J. G. Horse sense in feeding. Flour & Feed 51(5):7. Oct.1950. 298.8 F66
- 3729 HAYWARD, J. W. Research affecting the feeding of soybean oil meal. Feedstuffs 22(41):36-38,40,42-44,46,48. Oct.14,1950. 286.81 F322  
Also in Soybean Digest 10(11):30-34. Sept.1950. 60.38 So9
- 3730 HENNAUX. Les oligoelements minéraux dans l'alimentation animale. Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén. 2(1):201-209. 1949. 43.9 C767
- 3731 HOLDER, R. C. The value of fish products in feed formulation. Feedstuffs 22(37):42-44,46. Sept.16, 1950. 286.81 F322
- 3732 HOPE, E. B. Dairymen put up better silage. Skagit Co-op Dairyman 27(7):24-25. Mar.1950. 280.28 Sk1
- 3733 HUISMAN, M. H. Artificial drying of alfalfa. I-III. (In Dutch.) Overijsselsch Landbbl. 32(1562):4; (1563):8;(1564):4. July 15-29,1950. 12 Ov2  
Also in Drents Landbbl. 31(28):4;(29):8. July 15-22,1950. 12 D812
- 3734 HUSBY, M. Ensilage of raw potatoes. (In Norwegian.) Norsk Landbr. 16:343-345. Sept.15,1950. 11 N8122
- 3735 ISAJEV, F., and LANTK, J. A comparison between the feeding value of the sugar-cane molasses (Egyptian) and that of the sugar-beet molasses. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 22:664-675. 1950. 19.5 C332C  
English summary.



- 3736 IWEMA, S. Protein feeding and animal protein factor (A. P. F.). (In Dutch.) *Nieuwe Veldbode* 16:836-837. Sept. 28, 1950. 12 V542N
- 3737 JEBERIN, H. Einwandfreies trinkwasser für das weidevieh. *Hannoversche Land- u. Forstwirt. Ztg.* 103:416. Apr. 22, 1950. 18 H194
- 3738 JORDÁN SQUELLA, I. Los concentrados en la alimentación del ganado. *Campesino [Santiago]* 82(7):54-55. July 1950. 9.3 So12
- 3739 KMENT, A. Antivitamine. *Wien. Tierärztl. Monatsschr.* 37:595-624. Ref. Sept. 1950. 41.8 T345
- 3740 KNUDSEN, H. Silage quality. (In Danish.) *Dansk Landbr.* 69:403-404. Aug. 3, 1950. 280.28 V91
- 3741 KOHLS, R. L. The corn crop and livestock production. *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1950:1-2. July 26, 1950. 275.29 In2Em
- 3742 KUTISH, L. J. Molasses for silo feed. *Flour & Feed* 51(5):24. Oct. 1950. 298.8 F66  
Addition of molasses to silage to ensure proper fermentation.
- 3743 LANCASTER, R. J. The measurement of feed intake by grazing cattle and sheep. I. A method of calculating the digestibility of pasture based on the nitrogen content of faeces derived from the pasture. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 31:31-38. Ref. June 1949. 514 N48A
- 3744 LEGHIS, L. M. Les tourteaux. *Paysan Franc.* 26(393):12-13. Sept. 1950. 14 P29  
Analysis and nutritive value.
- 3745 LEIBOFF, R. O. Los sorgos graníferos. *Argentina. Min. de Agr. Almanaque* 25:252-254. 1950. 9 Ag874  
Nutritive value and yields.
- 3746 LENKETT, W. Zur verwertung der zuckerhaltigen füttermittel durch den wiederkäufer. *Zucker* 3:295-297. July 15, 1950. 65.8 Z82
- 3747 LOUSSE, A. Les antithyroïdiens dans l'alimentation animale. *Ann. de Méd. Vét.* 94:401-421. Ref. July 1950. 41.8 An78
- 3748 LUK'IANOV, P. I. Extensive introduction of stable and camp maintenance of livestock in summertime with the utilization of green feed. (In Russian.) *Sofialist. Zhivotnovod.* 12(5):3-7. May 1950. 49 So71
- 3749 MALONE, C. M. Mr. Potato, partner in the livestock business. *Colo. Rancher & Farmer* 4(19):32-33. Oct. 14, 1950. 6 C714  
Potatoes as feed.
- 3750 MAYMONE, B., BATTAGLINI, A., and TIBERIO, M. Researches on the digestibility and nutritive value of residues from the industrial treatment of vegetable ivory of ivory nut palms (*Phytelephas* spp.) and of doum palms (*Hyphaene* spp.). (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:603-624. Ref. 1950. 16 An76  
English summary.
- 3751 MEYER, A. Silage mit kohlensture in der erdgrube! *Deut. Landwirt. Presse* 73(17):3-4. Aug. 5, 1950. 18 D482
- 3752 MORALES ANTIQUERA, C. Experiencias sobre el ensilado de sarmientos frescos de vid para la alimentación del ganado. *Semana Vitivinica* 5(209):2-3. (Concl.) July 1, 1950. 95.8 Se5
- 3753 MORITZ, F. L. Let's get ready for winter feeding. *Mo. Farmer* 42(10):3, 17, 19. Oct. 1950. 5 M696
- 3754 MULLER-LENHARTZ, and WENDT, VON. Das rübenblatt. *Zucker* 3:318-321. Aug. 1, 1950. 65.8 Z82  
Feed.
- 3755 NILSSON, F. Lye treatment of straw increases the feed value. (In Swedish.) *Ladugården* 1950:236-239. Aug. 1950. 44.8 L12
- 3756 NYS, L. La pomme de terre fourragère: sa fumure; sa conservation; son utilisation; sa valeur économique. *Ann. de Gembloux* 56:142-168. Ref. Third Q. 1950. 13 G28
- 3757 PATERSON, R. How we make silage. London, Hulton, 1950. 24 p. 60.7 P272
- 3758 PERUCHON, J., and VALOIS, H. Influence de l'odeur et de la saveur des aliments sur le rendement de l'élevage. *Indus. Lait. [Paris] (n.s.)* 47:140-141. Aug. 1950. 44.8 In2
- 3759 PHILLIPS, P. H. The nutritive requirements of different species. (Extr.) *Grain & Feed J. Consolidated* 105(6):23-27. Sept. 27, 1950. 298.8 G762  
Livestock.
- 3760 POIJÄRVI, I. Nutritive value of hay in storage since the preceding year. (In Swedish.) *Forsk.- och Försöksresultat* 2:27-28. May 31, 1950. 20 F77
- 3761 POIJÄRVI, I. Preparation of AIV silage from raw material difficult to ensile. (In Swedish.) *Forsk.- och Försöksresultat* 2:36-38. July 31, 1950. 20 F77
- 3762 PREBLUDA, H. J. Questions and answers on APF and antibiotics. *Amer. Miller & Processor* 78(10):56, 79-80, 82, 84. Oct. 1950. 298.8 Am32  
In feeds.
- 3763 RIPLEY, P. O., and others. The nutritive value of yields of grassland as compared with other crops. *Internatl. Grassland Cong. Rpt.* 5:258-265. 1949. 60.19 In85R  
C. D. MacKenzie, C. J. Watson, and T. M. Stevenson, joint authors.  
Includes discussion.  
Canada.
- 3764 RIVERA BRENES, L., MARCHÁN, F., and TORO, E. DEL. Studies on silage in Puerto Rico. 1. Methods of ensiling and resulting quality of Merker [*Penisetum purpureum*], cane tops and Para grass [*Panicum purpurascens*] silages. *P. R. U. J. Agr.* 31:168-179. Ref. Apr. 1947. pub. June 1950. 8 P832J
- 3765 ROCCHETTI, G. Digestibility of proteins in whole soybean meals and in meals having the oils extracted by different solvents. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:631-645. Ref. 1950. 16 An76  
English summary.
- 3766 ROCHA, C. L. DA. Cassava flour - its manufacture and use in the feeding of animals. (In Portuguese.) *Rev. dos Criadores* 21(6):17-18. June 1950. 43.8 R32
- 3767 ROIG MIRO, J. Industrialización. II. Reus Avic. 16:5-9. 1950. 47.8 R31  
Grapeseed oilcake as feed in Spain.
- 3768 SAINT-QUENTIN, M. L'ensilage du fourrage en meule à l'air libre. *Rustica* 23:748. Sept. 3, 1950. 14 R92
- 3769 SCHWEIGERT, B. S. Present status of the animal protein factor. *Conf. Res. Proc.* 1949:41-47. 50.9 C762
- 3770 SCRUGGS, C. G. Stock shows that teach practical feeding; here's a new-type stock show that teaches farm boys and girls how to make money on livestock at market prices. *Prog. Farmer, Tex. Ed.* 65(10):19, 141. Oct. 1950. 6 T311
- 3771 SELL, O. E. Winter pastures help out. *Flour & Feed* 51(5):34. Oct. 1950. 298.8 F66  
Grazing.
- 3772 SHEEHY, E. J. Minerals in farm feeding. *Agr. Ireland* 7:203-205, 220-221, 223. (Cont.) Sept.-Oct. 1950. 10.5 Ag8
- 3773 SMITH, E. L. Ensiling sugar beet tops. *Brit. Farmer* 23:8. Oct. 31, 1950. 281.8 B77
- 3774 SPITZER, R. R. The need for B vitamins in feeds. *Feedstuffs* 22(40):20-24, 45. Oct. 7, 1950. 286.81 F322
- 3775 SQUIBB, R. L. Nuevos piensos indígenas para los animales. *Hacienda* 45(10):58. Oct. 1950. 6 H11
- 3776 STEENBERG, V. Silage from beet tops. *Farming [Norwich]* 4:309-310. Oct. 1950. 10 F2236
- 3777 TALLARICO, G. Nutritive value of the acorn. (In Italian.) *Ital. Agr.* 87:361-363. June 1950. 16 It1  
Animal and human nutrition.
- 3778 UOTILA, P. J. Mechanized preparation of AIV silage. (In Swedish.) *Forsk.- och Försöksresultat* 2:33-35. July 31, 1950. 20 F77
- 3779 USUELLI, F. Recent research on the relations between nutrition and reproduction. I. (In Italian.) *Riv. di Zootec.* 23:250-254. Aug. 1950. 49 R52
- 3780 VAULIN, I. G. Podgotovka kormov k skarm-livanifu [Preparation of feeds for feeding]. *Sverdlovsk, Sverdlovskoe Obl. Gos. Izd-vo*, 1950. 42 p. 389.7 V46
- 3781 YEARY, E. A. Substandard figs in the livestock diet. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 3:8-9. 1949. 93.44 C122P
- 3782 ZAFREN, S. IA., and HOROVKOVA, E. I. Identity of vitamin A activity of carotene in green plants, silage and hay. (In Russian.) *Sovet. Zootekh.* 5(5):86-89. May 1950. 49 So822
- 3783 ZELTER, S. Z. L'ensilage; pulpes - feuilles et collets de betteraves - pommes de terre cuites. *Bétail & Basse-Cour* 5:330-331. Aug./Sept. 1950. 49 B462



- 3784 ZUBRILIN, A. A. Silage. (In Russian.)  
Sotsialist. Zhivotnovod. 12(5):8-14. May 1950. 49 So71
- 3785 ZWENGEL, Garfutterwettbewerb. Bad. Land-  
wirtsch. Wchnbl. 117:613. (Cont.) Sept. 9, 1950. 18 B142  
Silage preparation.

## VETERINARY MEDICINE

- 3786 AINSWORTH, G. C. Fungus diseases of  
animals. Nature [London] 166:547-549. Sept. 30, 1950.  
472 N21
- 3787 ALLAM, M. W., and others. General surgery.  
No. Amer. Vet. 31:669-671. Oct. 1950. 41.8 N812  
F. J. Badger, J. D. Gadd, R. J. Garbutt, W. C. Glenney,  
and A. C. Secord, joint authors.
- 3788 ANDERES, R. L. Legal responsibilities of the  
veterinarian. Vet. Med. 45:443-446. Nov. 1950. 41.8 M69
- 3789 ANDREWS, F. N. Natural and experimental  
alteration of thyroid function in domestic animals. J.  
Clin. Endocrinol. 10:1142-1151. Ref. Sept. 1950.  
448.8 J8294
- 3790 ARIES, L. Zum problem der mangelkrank-  
heiten und der therapeutischen beeinflussung durch nähr-  
salzmischungen. Deut. Tierärztl. Wchnsch. 57:258-261.  
Aug. 15, 1950. 41.8 D482
- 3791 ATTINA, S. Communal veterinarian or hy-  
gienist? (In Italian.) Prog. Vet. 5:382-384. July 15,  
1950. 41.8 P942
- 3792 BAILLY, J. Prophylaxie de la rage. Off. In-  
ternatl. des Epizoot. B. 34:16-36. May 1950. 41.8 Of2
- 3793 BAISDEN, L. A., JOHNSON, H. W., and  
LARSEN, A. B. Studies on johnin. VIII. Preliminary  
studies on the specificities of acid-fast allergens. Amer.  
J. Vet. Res. 11:382-387. Ref. Oct. 1950. 41.8 Am3A
- 3794 BARBER, T. E. Brucellosis can be controlled.  
Nat. Provisioner 123(19):15-16. Nov. 4, 1950.  
286.85 N21
- 3795 BECHUANALAND. VETERINARY DEPT.  
Annual report, 1949. Mafeking, 1950. 17 p. 41.9 B38
- 3796 BEELER, M. N. We can whip brucellosis.  
Capper's Farmer 61(10):16, 43. Oct. 1950. 6 M693
- 3797 BELTRÁN, J. M. Misión social del veteri-  
nario español. Lérida Ganad. (ser. 3) 117:134-135. July  
1950. 41.8 L56
- 3798 BEUTNER, K. Die verluste an tierärztlicher  
literatur in deutschen bibliotheken. Deut. Tierärztl.  
Wchnsch. 57:245-246. Aug. 1, 1950. 41.8 D482
- 3799 BINNS, W., and HARRIS, L. E. Minerals will  
not cure or prevent brucellosis. Farm & Home Sci. [Utah  
Sta.] 11:47-48. Sept. 1950. 100 UtiF
- 3800 BOGORODITSKIY, A. V. Enlargement of lymph  
nodes in theileriasis. (In Russian.) Veterinariya 27(7):  
26. July 1950. 41.8 V6426  
Theileria annulata.
- 3801 CAMARGO N., F. La elaboración de la vacuna  
contra la fiebre aftosa en México. Chapingo 4:468-474,  
491. (Concl.) May 1950. 102 C36
- 3802 CAMENZIND, T. Geburten im stall; träch-  
tigkeit und geburt beim rind, pferd und schwein, nebst  
pflege und behandlung der jungen und der muttertierte  
nach der geburt, sowie die zweckmässige aufzucht der  
kälber, fohlen und ferkel. Ed. 2, rev. and impr.  
Glessen, Brühlsche Universitätsdruckeri, 1949. 96 p.  
41 C14
- 3803 CASOS, G. A. Sanidad del ganado que se faena  
en los frigoríficos del país. Argentina. Min. de Agr.  
Almanaque 25:229-232. 1950. 9 Ag874
- 3804 CHARTON, A. Cession de clientèle vétéri-  
naire. Intransmissibilité aux héritiers du cédant de  
l'obligation de ne pas exercer. Rec. de Méd. Vét. 126:  
417-423. July 1950. 41.8 R24
- 3805 CODO, V. Administration of drugs to animals.  
(In Portuguese.) Rev. Ceres 8:173-180. July/Dec. 1949.  
9.2 C332  
English summary.
- 3806 CODO, V. Temperature of animals. (In Por-  
tuguese.) Rev. Ceres 8:246-250. Jan./June 1950.  
9.2 C332  
English summary.
- 3807 COLOVOS, N. F. The Animal Metabolism  
Laboratory at the University of New Hampshire. N. H.  
Agr. Expt. Sta. C. 82, 6 p. Aug. 1950. 100 N45
- 3808 COOP, I. E. The effect of starvation, and of  
feeding after starvation, on metabolic activity in the rumen.  
New Zeal. J. Sci. & Technol. A, Agr. Res. Sect. 31:  
1-12. Ref. June 1949. 514 N48A
- 3809 COOPER, J. F. Mexican-U.S. team subdues  
foot-and-mouth. Fla. Grower 58(11):10, 16. Nov. 1950.  
80 F6622
- 3810 CUNHA, T. J. Antibiotics different in effect.  
Fla. Cattleman 15(2):38-39. Nov. 1950. 43.8 F66  
Similar title in Prog. Farmer, Tex. Ed. 65(10):60-61.  
Oct. 1950. 6 T311
- 3811 DAHMEN, H. Lehrbuch der veterinär-mikro-  
biologie. Ed. 4, rev. Berlin, Parey, 1949. 268 p. 41 D132
- 3812 DAVEY, D. G. L'antricyde. Résumé des ren-  
seignements. Off. Internatl. des Epizoot. B. 34:180-196.  
Ref. May 1950. 41.8 Of2
- 3813 DOBBERSTEIN, J. Aufgaben der veterinär-  
medizinischen wissenschaft in der kommenden zeit.  
Monatsh. f. Vetmed. 5:208-211. Aug. 1950. 41.8 M742
- 3814 DONHAM, C. R. Bang's battle, tough but not  
hopeless. Oreg. Farmer 72:692, 699. Sept. 15, 1950.  
6 Or32
- 3815 DONHAM, C. R. Extension services to veteri-  
nary practitioners. (Sum.) Assoc. Land-Grant Col. &  
Univ. Proc. (1949) 63:245-246. 1950. 4 As7
- 3816 DONKER-VOET, J. Impressions from my  
study trip to Egypt, South Africa, the Netherlands and  
England (Aug. 4-Nov. 19, 1949). III. Visit to the Nether-  
lands and England. (In Dutch.) Hemera Zoa 57:390-394.  
June 1950. 41.8 V51  
Chiefly on veterinary medicine.
- 3817 DUFOUR, R. La tularémie humaine et animale.  
Défense Agr. de la Beauce et du Perche 47:365. Sept. 30,  
1950. 14 D36  
France.
- 3818 EDDS, G. T. The efficiency of cardiac-respir-  
atory stimulants. Fort Dodge Bio-chem. Rev. 21(3):8-9.  
Fall 1950. 41.8 F772
- 3819 EWY, Z. Diabetes insipidus as one of the  
symptoms of disturbances of the pituitary-midbrain  
system. (In Polish.) Med. Weter. 6:221-222. Apr. 1950.  
41.8 M463
- 3820 FAUSTINI, R. "Different" types of mastitis.  
(In Italian.) Humus 6(7):25. July 1950. 16 H88
- 3821 FEDERER, K. E. Investigaciones sobre el  
antígeno fijador del complemento del virus aftoso. Gac.  
Vet. 12:105-117. Ref. May/June 1950. 41.8 G112  
English summary.
- 3822 FERNANDEZ, C. M. Consideraciones sobre  
toxicología animal y su investigación. Uruguay. Min. de  
Ganad. y Agr. B. Inform. 324:6. (Concl.) June 8, 1950.  
9.9 G15B  
Disease diagnosis.
- 3823 FERRARI, L. Pathogenesis and prophylaxis of  
vaccinal accidents in the "Clostridium zones." (In  
Italian.) Clin. Vet. 73:250-252. Aug. 1950. 41.8 C61
- 3824 FIELD, H. I. Salmonellosis des équidés, des  
bovidés et des oiseaux. Off. Internatl. des Epizoot. B.  
34:338-358. Ref. May 1950. 41.8 Of2
- 3825 FLORENT, A., and GODBILLE, M. Les  
Pasteurellas (coccobacilles) hémolytiques et leur impor-  
tance dans la pathologie animale en Belgique. Leur  
sensibilité à la pénicilline. Ann. de Méd. Vét. 94:337-  
361. Ref. June 1950. 41.8 An78
- 3826 FONTANELLI, E. The fight against foot-and-  
mouth disease in Latin America, according to Prof. O.  
Waldmann. (In Italian.) Zooprofilassi 5:430-433. Sept.  
1950. 41.8 Z72
- 3827 FOSTER, A. O. Veterinary parasitology;  
changing viewpoints on parasite control and antiparasitic  
medication. Vet. Med. 45:461-462. Nov. 1950. 41.8 M69
- 3828 FRANCE. PREFECTURE DE POLICE. Rapport  
sur les opérations des services sanitaires vétérinaires de  
Paris et du Département de la Seine pendant l'année 1949,  
by G. Brévoit. Paris, 1950. 47 p. 41.9 F842
- 3829 FREI, W. Tierseuchen. Basel, 1950. 317 p.  
(Reinhardt's Grundriss: Veterinär-Medizin) 41 F88T
- 3830 FREIRE MUNOZ, C. Organización de la lucha  
contra la fiebre aftosa. I-VII. Uruguay. Min. de Ganad.  
y Agr. B. Inform. 328:6; 329:6; 330:6; 331:6; 332:6; 333:6;  
334:6. July 6-Aug. 17, 1950. 9.9 G15B
- 3831 FREUND, S. Animal health problems in  
Israel. (In Hebrew.) Refuah Vet. 7:1-7. Apr. 1950.  
41.8 R25  
English summary, p. 38-37.



- 3832 FRIGGENS, P. Have we licked foot-and-mouth? *Farm J.* 74(10):46,179. Oct.1950. 6 F2212
- 3833 GASSNER, F. X. Applied endocrinology in veterinary medicine. *Norden News* 24(5):7. (Cont.) Sept./Oct.1950. 41.8 N75
- 3834 GENGOUX, P. Généralités au sujet des dosages biologiques. *Ann. de Méd. Vét.* 94:463-471. July 1950. 41.8 An78
- 3835 GEROSA, G. Practised advices of veterinary gynecology. (In Italian.) *Zootec. e Vet.* 5:636-637. July 1950. 41.8 Z7
- 3836 GODINA, G. Observations on the structure of the sympathetic ganglia in domestic mammals. (In Italian.) *Arch. Vet. Ital.* 1:41-47. Ref. Mar.31,1950. 41.8 Ar25
- English summary.
- 3837 GONZÁLEZ CUBILLO, J. El diagnóstico de gestación en las hembras del ganado doméstico. *Ceres [Valladolid]* 15(170):17-19,21. Ref. Aug.1,1950. 15 C33
- 3838 GONZÁLEZ CUBILLO, J. Terapéutica de la "electricidad dinámica" en los animales domésticos. *Veterinaria* 14:567-574. Aug.1950. 41.8 V6429
- 3839 GOOR, S. Haemorrhagic septicaemia of livestock in Israel. (In Hebrew.) *Refuah Vet.* 7:10-12. Apr. 1950. 41.8 R25
- English summary, p. 36-35.
- 3840 GORBAN, N. I. New method for obtaining bronchial mucus. (In Russian.) *Veterinariia* 27(7):55. July 1950. 41.8 V6426
- In diagnosis of tuberculosis.
- 3841 GORDON, H. M. Epidemiology and the efficient parasite; (with special reference to the nematode parasites of domestic animals). *Austral. & New Zeal. Assoc. Advn. Sci. Rpt.* 27:131-141. Ref. 1949. 514 Au73
- 3842 GUERREIRO, M. The brucellosis problem. (In Portuguese.) *Rio Grande do Sul. Sec. da Agr., Indús. e Com. Inform. Rur.* 3(11):12,11,10. May 1950. 9.2 R4741
- 3843 GUIA, M. The question of castration. (In Italian.) *Prog. Vet.* 5:412,415-417. (To be cont.) Aug.1, 1950. 41.8 P942
- Legal aspects.
- 3844 GUTOWSKI, B. The problems of physiology for the veterinary surgeons. (In Polish.) *Med. Weter.* 6:341-343. June 1950. 41.8 M463
- 3845 HARNACH, R., HUBÍK, R., and CHVÁTAL, O. The isolation of influenza viruses in Czechoslovakia. (In Czech.) *Časopis Českoslov. Vet.* 5:289. July 10,1950. 41.8 C27
- 3846 HILTY, H. Zur nomenklatur, symptomatologie und therapie der brucellosen (eine vergleichende studie bei mensch und tier). *Schweiz. Arch. f. Tierheilk.* 92: 481-509,565-574. Ref. Aug.-Sept.1950. 41.8 Sch9
- English summary.
- 3847 HOARE, C. H. Akinetoplastic strains of *Trypanosoma evansi* and the status of allied trypanosomes in America. *Soc. Mex. de Hist. Nat. Rev.* 10:81-90 Dec.1949. 516 So15
- 3848 HOLOBUT, W. On histamine and anti-histamine drugs. (In Polish.) *Med. Weter.* 6:206-209. Ref. Apr.1950. 41.8 M463
- 3849 HOPPE, R. A contribution to the detection of the localisation of foreign bodies, penetrated into the tissues in large animals. (In Polish.) *Med. Weter.* 6:291-294. May 1950. 41.8 M463
- English summary.
- 3850 HOPPE, R. A contribution to the saturation of fresh cutaneous wounds under local anaesthesia in large animals. (In Polish.) *Med. Weter.* 6:156-157. Mar.1950. 41.8 M463
- English summary.
- 3851 HUGHES, D. L. The function of chemists in livestock disease research. (In Portuguese.) *Rev. Bras. de Quím. (Cien. & Indus.)* 28,1.e.29:313. June 1950. 385 R322
- 3852 HUTCHISON, C. B. Welcome to the Division of Veterinary Medicine. (Abs.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:246-247. 1950. 4 As7
- 3853 IRWIN, W. F. Bone surgery. (Abs.) *Norden News* 24(5):8. (Cont.) Sept./Oct.1950. 41.8 N75
- Splints; pinning.
- 3854 JARRETT, I. G., and POTTER, B. J. Metabolism of acetate and propionate in the ruminant. *Nature [London]* 166:515-517. Sept.23,1950. 472 N21
- 3855 JASPER, D. E. Endocrinologic aspects of sterility. *Calif. Vet.* 4:13-14,26. Ref. Sept./Oct.1950. 41.8 C12
- 3856 JONES, L. M. Some effects of curare upon domestic animals. *No. Amer. Vet.* 31:731-735. Nov.1950. 41.8 N812
- 3857 JONES, T. C., and others. Research. *No. Amer. Vet.* 31:672-675. Oct.1950. 41.8 N812
- L. J. Goss, J. E. Greene, J. A. S. Millar, and D. A. Smith, joint authors.
- 3858 KAEMMERER, K. Temperaturkurve und zyklus. *Deut. Tierärztl. Wchnsch.* 57:241-243. Aug.1, 1950. 41.8 D482
- Experiments with cattle, sheep, and dogs.
- 3859 KAMIŃSKA, A., and SZAFLARSKI, J. Brucellosis—a professional disease of veterinary surgeons on the terrain of Silesia district. (In Polish.) *Lublín. U. M. Curie-Skłodowskiej. Ann. Sect. DD* 5:201-232. Ref. 1950. 512 L96Ad
- English summary.
- Also in *Med. Weter.* 6:284-285. May 1950. 41.8 M463
- 3860 KASPRZAK, E., PIENIAZEK, J., and SERAFI-NOWICZ, H. Tularemia—a professional zoonotic disease. (In Polish.) *Med. Weter.* 6:345-349. June 1950. 41.8 M463
- English summary.
- 3861 KIKUTH, W. Recent results in virus research. *Roy. Egypt. Med. Assoc. J.* 33:492-502. 1950. 448.9 Eg93
- 3862 KINGMA, F. J. A technique for the slow infusion of fluids. *Amer. Vet. Med. Assoc. J.* 117:403-404. Nov.1950. 41.8 Am3
- 3863 KINGSCOTE, A. A. La trichinose dans la région arctique boréale. *Off. Internat. des Épi-zoot. B.* 34:221-222. May 1950. 41.8 Of2
- 3864 KMENT, A., and WOHLZOGEN, F. X. Eine neue quantitative gonadotropin-bestimmungsmethode. *Wien. Tierärztl. Monatsschr.* 37:689-694. Ref. Oct.1950. 41.8 T345
- 3865 KOLLER, R. Schilddrüse, thioracil und thyroproteine. *Wien. Tierärztl. Monatsschr.* 37:695-704. (To be cont.) Oct.1950. 41.8 T345
- 3866 KOTOV, V. T. Specific prophylaxis of pseudo-rabies. (In Russian.) *Veterinariia* 27(7):22-23. July 1950. 41.8 V6426
- 3867 KRAUS, F. J. Zum pyometraproblem. II. *Wien. Tierärztl. Monatsschr.* 37:624-634. Sept.1950. 41.8 T345
- 3868 KREBS, K. Der wurmbefall unserer haustiere. *Landbote* 4(32):4. Aug.12,1950. 18 L2336
- 3869 KULCZYCKI, J. A contribution to the technique of the incision of the rumen. (In Polish.) *Med. Weter.* 6:355-356. June 1950. 41.8 M463
- 3870 KUPERSTEIN, A. An outbreak of rabies at Kfar Giladi. (In Hebrew.) *Refuah Vet.* 7:14-15. Apr. 1950. 41.8 R25
- English summary, p. 35.
- 3871 LAPAGE, G. Where parasites come from. *Farming [Norwich]* 4:261-263,266. Sept.1950. 10 F2236
- Methods used by parasites in entering British farm stock.
- 3872 LARSEN, A. B., VARDAMAN, T. H., and GROTH, A. H. Preliminary studies on the effect of streptomycin and other agents on *Mycobacterium paratuberculosis*. *Amer. J. Vet. Res.* 11:374-377. Oct.1950. 41.8 Am3A
- 3873 LASH, E. What's new in eradicating Bang's disease. *Skagit Co-op Dairymen* 27(7):12-13,16-17. (To be cont.) Mar.1950. 280.28 Sk1
- 3874 LAZARUS, M., and ROGERS, W. P. Uptake of phenothiazine labelled with sulphur-35 by the tissues of nematode parasites and their hosts. *Nature [London]* 166: 647-648. Oct.14,1950. 472 N21
- 3875 LEMBKE, A., and KÖRNLEIN, M. Das brucelloseproblem in der literatur der letzten 20 jahre. *Zentbl. f. Bakt. Parasitenk. Infektkrank. u. Hyg. Abt. I. Ref.* 147:449-531. Ref. Feb.15,1950. 448.3 C33
- 3876 LEMETAYER, E., and others. Le colostrum et le lait dans leurs rapports avec l'immunité du jeune. *Lait* 30:359-373. (To be cont.) July/Aug.1950. 44.8 L143
- L. Nicol, O. Girard, R. Corvazier, and M. Cheyroud, joint authors.
- Includes animals.



- 3977 Leningrad. Veterinarnyi Institut. Spravochnik veterinarnogo vracha [Reference book for the veterinarian]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 888 p. 41 L546
- 3978 LIEGEAIS, F., and DERIVAUX, J. Ostéopathies par mutations calciques chez les animaux. *Ann. de Méd. Vét.* 94:329-336. Ref. June 1950. 41.8 An78
- 3979 LONDON. ROYAL COLLEGE OF VETERINARY SURGEONS. The register of veterinary surgeons and the supplementary veterinary register, 1950. London, 1950. 444 p. 41.9 L84
- 3980 LORKIEWICZ, Z. Bacteriophages and their application in veterinary medicine. (In Polish.) *Med. Weter.* 6:349-353. Ref. June 1950. 41.8 M463  
English summary.
- 3981 MAGLIANO, A. Ezoognosia generale [General zoognostics]. Milano, Vallardi, 1950. 514 p. 444 M273
- 3982 MANNINGER, R. La prophylaxie de la rage. *Off. Internatl. des Epizoot.* B. 34:97-111. May 1950. 41.8 Of2  
Hungary.
- 3983 MANSO SOTO, A. E., and RÍSPOLI, J. A. Brucellosis; técnicas de reacciones diagnósticas. Buenos Aires. U. Misión de Estud. de Patol. Region. Argentina 20(75):31-39. 1949. 448.8 B862
- 3984 MELLO, M. T. DE. Importance of brucellosis. V. Social importance. (In Portuguese.) *Brasil-Med.* 64:93-98. June/July 1950. 448.8 B73  
In man and livestock.
- 3985 MEMORIA, J. M. P. Applications of statistical methods in medicine and veterinary medicine. (In Portuguese.) *Rev. Ceres* 8:144-152. July/Dec. 1949. 9.2 C532
- 3986 MOORE, G. R. Some clinical uses of a new antihistamine. *Jen-Sal J.* 1950:8-9. Sept. 1950. 41.8 J45  
Dimethylaminoethoxy-methylbenzylpyridine succinate.
- 3987 MORALES OTERO, P. Actinomicosis y actinobacillosis. *Rev. del Café* 6(3):11-12. Aug./Sept. 1950. 8 R3295  
In livestock.
- 3988 MORRISON, C. Remedies of a 17th-century horse doctor. *Country Life* [London] 108:1290-1291. Oct. 20, 1950. 80 C83
- 3989 MOSKEY, H. E. Veterinary medicinals under Federal F.D.C. Act. (Excerpts.) *Drug & Allied Indus.* 36(10):12-13. Oct. 1950. 396.8 S12
- 3990 MÜLLER, K. Medicaments and remedies. X. (In Czech.) *Casopis Českoslov. Vet.* 5:339-345. Aug. 10, 1950. 41.8 C27
- 3991 NEUMANN, H. J. Die Schutzimpfung im Rahmen der tuberkulosebekämpfung; literaturstudie. I. Das sog. Calmette-verfahren. *Kieler Milchwrt. Forscher.* 2:73-81. Ref. 1950. 44.9 K542
- 3992 NIŽNANSKY, F., CHMEL, L., and ORAVEC, C. Inquiries upon dermatomycoses in Slovakia. (In Czech.) *Casopis Českoslov. Vet.* 5:324-326. July 25, 1950. 41.8 C27
- 3993 NOVIKOVA, L. S. Reservation and restoration of virulence of *Leptospira*. (In Russian.) *Veterinariia* 27(7):56-58. July 1950. 41.8 V6426
- 3994 OFF. INTERNATIONAL DES EPIZOOTIES. Rapport technique du directeur, 1949-1950. *Off. Internatl. des Epizoot.* B. 34:5-15. May 1950. 41.8 Of2
- 3995 OGILVIE, D. D. Recent advances in chemotherapy as applied to practice. *Indian Vet. J.* 27:78-94. Ref. Sept. 1950. 41.8 In2
- 3996 OLCESE, M. R. El aborto contagioso o brucellosis. *Rev. SanCor* 8(93):7. July 1950. 280.28 R322
- 3997 ORMROD, A. N. Simplified version of the Kirschner-Ehmer splint. *Vet. Rec.* 62:616. Oct. 28, 1950. 41.8 V841
- 3998 OSIŃSKI, J. Hygiene and safety of work in the abattoir and veterinary prophylactic. (In Polish.) *Med. Wetter.* 6:230-232. Apr. 1950. 41.8 M463
- 3999 OVCHINNIKOV, P. Veterinary workers of White Russia in the effort for fulfillment of the Three-Year Plan for development of livestock. (In Russian.) *Veterinariia* 27(7):1-5. July 1950. 41.8 V6426
- 3900 OWENS, W. A. An aptitude test for veterinary medicine. *J. Appl. Psychol.* 34:295-299. Oct. 1950. 140.8 J822
- 3901 PAILLE, R., and HARS, E. Hémagglutination par diverses bactéries; inhibition par les immunosérums correspondants. *Acad. Vét. de France. B.* 23:375-376. July 1950. 41.9 R24
- 3902 PAILLE, R. Tularémie; contribution au diagnostic expérimental. *Acad. Vét. de France. B.* 23:377-379. July 1950. 41.9 R24
- 3903 PANISSET, M. Les histoplasmoses animales et l'histoplasmosse humaine. *Canad. J. Compar. Med.* 14:287-295. Ref. Sept. 1950. 41.8 C162  
English summary.
- 3904 PARNAS, J. The part of veterinary sciences in the I. Congress of the Polish Science. (In Polish.) *Med. Weter.* 6:269-271. May 1950. 41.8 M463
- 3905 PEATT, E. S. W. War-time experiences with the R.A.V.C. and remarks on some of the diseases encountered. *Vet. Rec.* 62:591-596. Oct. 7, 1950. 41.8 V641  
Royal Army Veterinary Corps.
- 3906 PERALTA BERGNA, H. D. Comunicación previa sobre la utilización del carbonato argéntico (según Del Rio Hortega) en la tinción de extendidos. *Gac. Vet.* 12:126-127. May/June 1950. 41.8 G112
- 3907 PERENC, A. The Veterinary School in Bura-ków, near Warsaw and its director Dr. Adam Antoni Rudnicki. (In Polish.) *Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. DD* 5:233-272. 1950. 512 L96Ad  
English summary.
- 3908 PERKINS, L. E. Experiments on bracken [*Pteridium aquilinum*] poisoning. *Brit. Vet. J.* 106:377-385. Oct. 1950. 41.8 V643
- 3909 PESCE DE FAGONDE, A. Carbunco bacteri-diano; accidentes de vacunación. Argentina. *Mín. de Agr. Almanaque* 25:297-299. 1950. 9 Ag874
- 3910 PICKEN, J. C., JR., and BAURIEDEL, W. R. A low-temperature incubator. *Science* 112:409. Oct. 6, 1950. 470 Sc12  
For veterinary research.
- 3911 PILLET, J., and others. Sur un vaccin anti-staphylococcique combiné: anatoxines  $\alpha$  et  $\beta$  et vaccin microbien polyvalent. *Acad. Vét. de France. B.* 23:409-412. July 1950. 41.9 R24  
B. Orta, S. Isbir, and P. Mercier, joint authors.
- 3912 PILLET, J., and others. Les toxines des staphylocoques d'origine animale; préparation et titrage de la toxine  $\beta$ . *Acad. Vét. de France. B.* 23:403-407. July 1950. 41.9 R24  
B. Orta, S. Isbir, and P. Mercier, joint authors.
- 3913 PIRAS, M. Modifications of the territorial boundaries of service districts put up for competition. (In Italian.) *Prog. Vet.* 5:381-382. July 15, 1950. 41.8 P942  
Veterinary medicine, Italy.
- 3914 POUX, J. Papel de los animales en la transmisión de las enfermedades del hombre. *B. de Inform. Cient. Nac.* 3(30):70-76. (Cont.) June 1950. 475 B633
- 3915 PROST, E. Common salt in the historical outline and its biological role. (In Polish.) *Med. Weter.* 6:232-234. Apr. 1950. 41.8 M463
- 3916 RAMON, G. Los métodos fundamentales de la inmunización activa y sus aplicaciones. *Rev. de Sanidad Vet.* 5:494-520. July 15, 1950. 41.8 R3222
- 3917 REYNOLDS, M. Fluid therapy for the dehydrated animal. *Pa. U. Sch. Vet. Med., Vet. Ext. Q.* 120:1-14. Ref. Oct. 21, 1950. 41.9 P386
- 3918 RISLAKKI, V. Features from the activity of the State veterinary laboratory. (In Swedish.) *Forsk.- och Försöksresultat* 2(4):23-24. Apr. 30, 1950. 20 F77  
In Finland.
- 3919 ROBIN, V., CHARTON, A., and MORANGE, R. La streptomycine: ses indications en médecine vétérinaire. *Rec. de Méd. Vét.* 126:449-466. Aug. 1950. 41.8 R24
- 3920 ROKHOVA, A. G. Effect of onion on enzymatic activity of *Bacillus anthracis*. (In Russian.) *Priroda* 39(6):75. June 1950. 410 P933
- 3921 ROOS, M. J. What is really a virus? (In Dutch.) *Pluimveeteelt* 3(10):2. Apr. 28, 1950. 47.8 P722  
Virus diseases of livestock.
- 3922 ROZA, M. A substitute for bacteriological peptone: its preparation and its application to veterinary purposes. III. The practical value of tuberculin B and mallein prepared with peptone Bogor. (In Dutch.) *Hemera Zoa* 57:339-363. June 1950. 41.8 V51  
English summary.



- 3923 RUTHE, H. 160 Jahre Berliner veterinärmedizinische fakultät. Monatsh. f. Vetmed. 5:207-208. Aug.1950. 41.8 M742
- 3924 SABA, M. Les affections de la mamelle. (In Arabic.) Syria. Ext. Serv. C.49,16 p. May 1950. 225 Sy8  
French summary.
- 3925 SAHLSTEDT, A. V. Important advances in Swedish veterinary research in recent years. (In Swedish.) Lantbruk. Tidskr. 89:201-213. 1950. 104 Sw3  
English summary.
- 3926 SALERNO, G. On the chemical composition of diseased bone and the effects of its organic constitution and therapeutics. (In Italian.) Prog. Vet. 5:429-430,443-435. Aug.1,1950. 41.8 P942
- 3927 SANTIAGO LUQUE, J. M. El problema de la constitución en patologia animal y en zootecnia. Veterinaria 14:673-681. Sept.1950. 41.8 V6429
- 3928 SAVINO, E., and RENNELLA, E. Estudios sobre Leptospiras. VI-XI. Argentina. Inst. Bact. Malbrán. Rev. (1945-48)13:62-83,204-209,315-319. Ref. 1950. 448.3 Ar3
- VI, Leptospira suis y Leptospira hyos aislada en cerdos de la República Argentina, p. 62-65; VII, Leptospira en cerdos de la República Argentina, p. 66-71; VIII, Leptospira en animales vacunos, equinos y laneros de la República Argentina, p. 72-76; IX, Leptospira suis agente de enfermedad de Weil en la República Argentina, p. 77-83; X, Primer aislamiento de dos cepas de "Leptospira suis" de origen humano (dos casos de enfermedad de Weil), p. 204-209; XI, La leptospirosis humana como enfermedad profesional, p. 315-319.
- 3929 SCHANG, P. J. Prevenga a su hacienda de la aftosa. Rev. SanCor 8(94):46-47. Aug.1950. 280.28 R322
- 3930 SCHARRER, K. Die biochemischen grundlagen der tierernährungslehre. Samml. Chem. u. Chem. Tech. Vorträge. (n.s.)51,162 p. 1950. 384 Sa4
- 3931 SCHMIDT, S., HANSEN, A., and HOLM, P. Irradiación del virus aftoso por medio de rayos ultravioleta. Rev. de Sanidad Vet. 5:431-444. June 15,1950. 41.8 R3222
- 3932 SCHOOP, G. Das novyödém, seine bekämpfung und seine forensische bedeutung. Deut. Tierärztl. Wchnschr. 57:221-223,243-245. July 15-Aug.1,1950. 41.8 D482
- Gas gangrene due to Clostridium novyi.
- 3933 SCHWEIGHAUSER, F. Der tierarzt im rahmen des versicherungsvertragsgesetzes. Deut. Tierärztl. Wchnschr. 57:279-280. Sept.1,1950. 41.8 D482
- 3934 SENZE, A. Oviducts and fertility. (In Polish.) Med. Weter. 6:294-298. Ref. May 1950. 41.8 M463  
English summary.
- 3935 SEVILLE, H. La tularémie. Acclimatation 77: 205. Sept.23,1950. 14 Ac2
- In man and animals.
- 3936 SIMONIAN, K. S. Utilization of blood of farm animals. Communication 10. Data on controlling anaphylactogenic properties of non-specific serum. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(7):43-47. 1950. 20 Ak1
- 3937 SKOCZEN, I. Streptomycin and sulfones in the treatment of tuberculosis. (In Polish.) Med. Weter.-6: 158-161. Mar.1950. 41.8 M463  
English summary.
- 3938 SKRIABIN, K. K., and SZICHOBAŁOWA, N. P. Soviet helminthology in the light of the Michurin theory. (In Polish.) Med. Weter. 6:272-274. May 1950. 41.8 M463
- 3939 SPISNI, D. Lathyrism. (In Italian.) Clin. Vet. 73:241-249. Aug.1950. 41.8 C61
- Toxicity of Lathyrus spp. to man and animals.
- 3940 STASKIEWICZ, G. Mandaverin—a new anthelmintic. (In Polish.) Med. Weter. 6:164. Mar.1950. 41.8 M463
- 3941 STEFAŃSKI, W. Achievements of the Soviet Union parasitology. (In Polish.) Med. Weter. 6:333-335. June 1950. 41.8 M463
- 3942 STEPHENSON, H. C. Drugs. Ga. Vet. 2(4):7. July/Aug.1950. 41.8 G29
- 3943 SZAfran, A. Some notes on the retention of the afterbirth. (In Polish.) Med. Weter. 6:226-227. Apr. 1950. 41.8 M463
- 3944 SZYFRES, D. La brucelosis animal en los Estados Unidos de N. América. II-III. Uruguay. Min. de Ganad. y Agr. B. Inform. 324:7;325:13-15. June 8-15, 1950. 9.9 G15B
- 3945 TAYLOR, E. L. Verminous parasites and veterinary practice. Vet. Rec. 62:613-616. (To be cont.) Oct.28,1950. 41.8 V641
- 3946 THORP, W. T. S. World public health problems. Amer. Vet. Med. Assoc. J. 117:374-378. Nov. 1950. 41.8 Am3
- 3947 TITONE, F. Prevention of unemployment. (In Italian.) Prog. Vet. 5:353-354. July 1,1950. 41.8 P942  
In the veterinary profession.
- 3948 TRAWIŃSKI, A. Diagnostic methods in parasitic diseases caused by worms. Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. DD 5:177-200. Ref. 1950. 512 L96Ad
- Antigenic reactions.
- 3949 TRAWIŃSKI, A. La trichinose. Off. Internatl. des Epizoot. B. 34:223-228. May 1950. 41.8 Of2
- 3950 VACCARI, I. Researches on the culturing of Trichomonas. (In Italian.) Arch. Vet. Ital. 1:169-176. June 30,1950. 41.8 Ar25  
English summary.
- Action of antibiotics on cultures of T. foetus and T. columbae.
- 3951 VAITSMAN, J. Campaign against foot and mouth disease. (In Portuguese.) Agr. e Pecuaria 21(325): 26. Aug.1950. 9.2 Ag89  
Brazil.
- 3952 VAITSMAN, J. A livestock disease transmissible to man. (In Portuguese.) Lav. Arroz. 4(43):41-42. July 1950. 59.8 L39  
Brucellosis.
- 3953 VAYSSE, J., and PLACIDI, L. Note sur la prophylaxie vaccinale et la chimiothérapie des brucelloses animales. Off. Internatl. des Epizoot. B. 34:260-276. Ref. May 1950. 41.8 Of2
- 3954 VETERINAR-kalender, 1950. Hannover,1949? 304 p. 41.8 V6437
- 3955 VINCENT, L. Le rétablissement de la santé profonde chez les animaux de ferme. Chambre d'Agr. des Régions de Rabat, du Rharb et d'Ouezzan. B. 16:2321-2326. Sept.1950. 24 C352
- 3956 VITTOZ, R. Prophylaxie de la rage en Indochine et en Extrême-Orient. Off. Internatl. des Epizoot. B. 34:37-96. Ref. May 1950. 41.8 Of2
- 3957 VOIGT, P. H. Die intravenöse applikation von honiglösung in der veterinärmedizin. Deut. Tierärztl. Wchnschr. 57:277-278. Sept.1,1950. 41.8 D482
- 3958 VRANA, M. The protection of farm animals according to the penal law and the position of the veterinarians. (In Czech.) Časopis Českoslov. Vet. 5:345-346. Aug.10,1950. 41.8 C27
- 3959 WAGENER, K. Carences alimentaires. Leurs répercussions sur la genèse des maladies infectieuses. Off. Internatl. des Epizoot. B. 34:284-306. May 1950. 41.8 Of2
- 3960 ZAVESIN, I. S., and BELOKUR, V. M. Fixation of blood for staining with carbolic acid solution. (In Russian.) Veterinariia 27(7):58. July 1950. 41.8 V6426
- 3961 ZEBROWSKI, S. A contribution to the data on the persistence of immunity after the preventive vaccination against rabies. (In Polish.) Med. Weter. 6:155. Mar.1950. 41.8 M463
- 3962 ZIETZSCHMANN, O., and NICKEL, R. Anleitung zum präparieren; eine praktische wegweisung für studierende der veterinärmedizin. Ed. 3, rev. Hannover, Schaper,1949. 179 p. 444 Z68A

## MISCELLANEOUS

- 3963 AFANAS'EVA, M. S. Pasture maintenance of livestock on Michurin Collective Farm [Moscow Region]. (In Russian.) Sořsialist. Zhivotnovod. 12(5):39-42. May 1950. 49 So71
- 3964 ARCÉS, J. D'. La Station Experimentale d'Elevage d'Algerie, ce qu'elle est—ce qu'elle doit etre. Voix des Colons 32(1574):1-2. Sept.18,1950. 24 V85
- 3965 BAGUE, J. Glossary of animal biology (English-Spanish). P. R. Dept. de Agr. y Com. Almanaque Agr. de P. R. 1950:143-309. 8 AL62
- 3966 BEACH, F. A. Beasts before the bar; quaint court scenes of yesteryear show that ignorance of the law was once no excuse even for an animal. Nat. Hist. 59:356-359. Oct.1950. 500 N483J
- 3967 BECKER, F. Die kleintierzucht auf der Westfalenschau in Hamm. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1158,1163. Aug.24,1950. 18 L2346



- 1968 BRITISH SOCIETY OF ANIMAL PRODUCTION. Report of proceedings of the Twelfth Meeting, held at Cambridge, August 29th-Sept. 1st 1949. General topic: The Livestock of East Anglia. Edinburgh, 1949. 75 p. 49.9 B772
- 1969 COUVREUR, F. P. Alençon, Laval, Le Mans viennent de marquer la qualité croissante de nos élevages de l'ouest. *J. de la France Agr.* 6:1117,1119. Sept.22/28, 1950. 14 J829
- 1970 DENMARK. STATENS HUSDYRBRUGSUDVALG. LANDØKONOMISK FORSØGSLABORATORIUM. Oversigt over Landøkonomisk Forsøgslaboratoriums arbejder i året 1948-49 [Survey of the activities of the Farm Economic Laboratory during the year 1948-49]. København, 1949. 86 p. 49.9 D41
- 1971 DRAKIN, L. I. In regard to the new achievements of Soviet zootechnical science. (In Russian.) *Sotsialist. Zhivotn.* 12(4):24-29. Apr.1950. 49 So71
- 1972 FERNÁNDEZ QUINTANILLA, C., and BLANCO, R. El plan agrícola de Galicia y la mejora pecuaria. *Ganadería [Madrid]* 8:285-286. May 1950. 49 G15
- Ganado vacuno, por C. Fernández Quintanilla; Ganado de cerda: normas acerca del funcionamiento de la cochiguera de distribución, por R. Blanco.
- 1973 FLINT, W. E. Showmanship essential when exhibiting livestock; an old hand shows the way for increasing your winnings. *N. Mex. Agr. Col. Ext. News* 30(9):4. Sept.1950. 275.29 N463Ex
- 1974 GALLINA, L. Amazing revelations of coprology to scientist, and of sterology for laymen. (In Italian.) *Zootec. e Vet.* 5:618-619. July 1950. 41.8 Z7
- Fecal constituents.
- 1975 GUL'CHAK, F. IA. Effect of maintenance conditions and feeding on the development of northern reindeer. (In Russian.) *Sovet. Zootekh.* 4(6):68-85. Ref. June 1950. 49 So822
- 1976 HOEKSTRA, P., and SLIJPER, E. J. Is your book case up to the mark? V-VI. (In Dutch.) *Hemera Zoa* 57:379-389, 457-470. June-July 1950. 41.8 V51
- Contents: V, Livestock breeding; VI, Cytology, histology and microscopic anatomy.
- 1977 KHALTURIN, S. S. Animal husbandry—a source of high profitability for Kenez Collective Farm [in Frunze Region]. (In Russian.) *Sotsialist. Zhivotnovod.* 12(5):47-52. May 1950. 49 So71
- 1978 KRIDER, J. L. Scientific advancement in animal production. *Meat* 33(5):159-160. Oct.1950. 286.85 M464
- 1979 KUZNETSOV, A. Development of public productive livestock on collective farms in Rezeknenskiy District, Latvian SSR. (In Russian.) *Sovet. Zootekh.* 4(6):41-53. June 1950. 49 So822
- 1980 MACKAY, MRS. D. Progressive stock farming in Manitoba. *Canad. Cattlemen* 13(9):32-33. Sept.1950. 49 C16
- 1981 MONTERO FERNANDEZ, A. Las instalaciones para ganadería en la Feria del Campo. *Agricultura [Madrid]* 19:377-381. Aug.1950. 15 Ag84
- 1982 NEW ZEALAND. DEPT. OF AGRICULTURE. ANIMAL RESEARCH DIV. Annual report, 1948-49. Wellington, 1950. 46 p. 49.9 N484A
- 1983 NEWELL, P. F. The extension animal husbandry program in Mississippi. *Sheepman* 21:218,235. Nov.1950. 45.8 Sh32
- 1984 NEWELL, P. F. Learning the 'know-how' of livestock production. The shift from cotton to cattle in Mississippi will find many producers entering an entirely new field. The progress of this program will depend on how well the new producer learns livestock production and management. *Coastal Cattlemen* 16(6):9-10,12. Aug. 1950. 43.8 C63
- 1985 NICOLAY, H. K. The official provincial livestock exhibition at Serang-B. (In Dutch.) *Vee- en Vleeshandel* 35:368. Sept.26,1950. 286.85 V51
- 1986 RATNIKOV, V. Five [livestock] farms of Step' Kolkhoz [in Aktyubinsk Region]. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):32. June 1950. 281.8 K83
- 1987 ROBERTS, E. J. The story of our cattle. *Young Farmers' Club Booklet* 22,48 p. June 1950. 10 Y82
- 1988 SHOSHAN, A. Man and animals in ancient Hebrew literature: animals as a source of livelihood to their owners. (In Hebrew.) *Refuah Vet.* 7:18-20. Apr. 1950. 41.8 R25
- 1989 U. S. BUR. OF ANIMAL INDUSTRY. Directory of the Bureau of Animal Industry. Rev. Washington, 1950. 71 p. 1.917 A2D631
- 1990 VALE, J. M. DO. Gado bissulco; suínos, bovinos, arletrnos, caprinos. [Cloven hoofed cattle; swine, cattle, sheep, goats]. *A Terra e o Homem* 17,418 p. 1949. 15.5 T27
- 1991 ZUCCHINI, M. Animal industry visit to Germany. (In Italian.) *Agr. Ferrarese* 54:151-154. July 31,1950. 16 Ag87

## CATTLE

## Breeds and Breeding

- 1992 ANDREWS, M. E. Breeding policy; another aspect of a controversial subject. *Guernsey Breeders' J.* [London] (n.s.)4(3):15,17-18. Autumn 1950. 43.8 G932
- 1993 ANDREWS, M. E. Pedigree breeding stock; founder of the Chalvington herd of Guernseys defends line systems. *Field* 196:493-494. Sept.23,1950. 10 F45
- 1994 ANEMA, R. Observation in regard to the breeding of Holstein Friesian as a guide to improvement of the cattle in Overijssel. (In Dutch.) *Stamboeker* 32: 89-90. July 20,1950. 43.8 V58
- 1995 ANKOLE cattle, a way of life in Uganda. *Live-stock Wk.* 4(43):18,24. Aug.31,1950. 49 L753
- Report on trip by B. B. Brooks.
- 1996 ARZUMANIAN, E. A., DOLGUSHINA, N. A., and BURDIN, M. G. Tagil-East Friesian [cattle] hybrids. (In Russian.) *Sotsialist. Zhivotnovod.* 12(5):56-61. May 1950. 49 So71
- 1997 ASHTON, W. E. More ancient history of Canadian Jerseys. *Canad. Jersey Breeder* 5(8):9,42-44. Aug.1950. 43.8 C165
- 1998 ASTAF'EV, V. E. Plemennaiâ rabota na kolkhoznói ferme krupnogo nogatogo skota [Pedigree work on a cattle collective farm]. *Chkalov? Chkalovskoe Izd-vo*, 1950. 60 p. 43 As8
- 1999 BEAK, W. Breeding beef cattle. *Westralian Farmers Co-op. Gaz.* 19:29-30. July 1950. 280.28 W522
- 4000 BETTINI, T. M. The international conference at Lucknow on animal breeding in tropical and subtropical conditions. (In Italian.) *Riv. di Zootec.* 23:231-233. July 1950. 49 R52
- Cattle.
- 4001 BONADONNA, T. Fertility obtained with artificial insemination in the irrigated zone of the Po Valley. (In Italian.) *Schweiz. Arch. f. Tierheilk.* 92:553-565. Ref. Sept.1950. 41.8 Sch9
- English summary.
- Cattle.
- 4002 BONADONNA, T. Observations on the fertility obtained by artificial insemination related to the season of the year. (In Italian.) *Zootec. e Vet.* 5:772-779. Sept. 1950. 41.8 Z7
- English summary.
- Cattle.
- 4003 BONADONNA, T. Problèmes de la dilution du sperme de taureau. *Ann. de Méd. Vét.* 94:362-372. Ref. June 1950. 41.8 An78
- 4004 BONADONNA, T. Repeating of services for conception during the different months of the year. (In Italian.) *Zootec. e Vet.* 5:780-783. Sept.1950. 41.8 Z7
- Cattle.
- 4005 BONADONNA, T. Significant results of the artificial insemination of virgin heifers. (In Italian.) *Prog. Vet.* 5:404-405. July 15,1950. 41.8 P942
- 4006 BONADONNA, T. Some judgments for the diagnosis of pregnancy in the application of artificial insemination. (In Italian.) *Zootec. e Vet.* 5:630-635. July 1950. 41.8 Z7
- English summary.
- Cattle.
- 4007 BONDAREV, IU. F. Krasnyi stepnoi skot [Red Steppe cattle]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 334 p. 43 B646
- 4008 BONDAREV, IU. F. Red Steppe [dairy] cattle. (In Russian.) *Sotsialist. Zhivotnovod.* 12(5):62-64. May 1950. 49 So71
- 4009 BOOTH, R. L. The Allegheny Bluegrass; Shorthorn progress in Virginia has a longer history than in any other section of America. *Shorthorn World* 35(12): 57-59. Sept.10,1950. 43.8 Sh8



- 4010 BRATTON, R. W., and FOOTE, R. H. Improved fertility in artificial breeding. *Holstein-Friesian World* 47:2228,2267. Oct.21,1950. 43.8 H742
- 4011 BREEDING of the Simmenthal race in Switzerland. (In Italian.) *Zootec. e Vet.* 5:753-756. Sept.1950. 41.8 Z7
- 4012 BREMER, J. Ganado Jersey canadense. *Agr. Venezol.* 15(142):4-5. May 1950. 9.95 Ag8
- 4013 BROWN, B. Home-bred Holsteins make the grassland champion. *Breeder's Gaz.* 115(11):5,14-16. Nov.1950. 49 B74
- 4014 BROWN, R. Holstein history accents last half-century. Future is bright. *Ind. Farmers Guide* 106(19):10. Oct.1,1950. 6 In2
- 4015 BUCHANAN-SMITH, A. D. Drinking her health; or, Long life to the Ayrshire cow. *Ayrshire Cattle Soc. J.* 22:198-201. Oct.1950. 43.8 Ay74
- 4016 BUSH, L. J., and others. The effect of bacteria on the fertility of bovine semen. *J. Dairy Sci.* 33:633-638. Ref. Sept.1950. 44.8 J822
- T. M. Ludwick, L. C. Ferguson, and F. Ely, joint authors.
- 4017 BUTAYE, R. Artificial insemination and some zootechnical considerations. (In Flemish.) *Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén.* 2(1):135-147. 1949. 43.9 C767
- French summary.
- 4018 CANADIAN AYRSHIRE BREEDERS' ASSOCIATION. The Canadian Ayrshire herd book, v. 57. Owen Sound, 1949. 471 p. 43.9 C162C
- 4019 CANADIAN SHORTHORN ASSOCIATION. The Canadian Shorthorn herd book, v. 59. Owen Sound, 1950. 996 p. 43.9 D71
- 4020 CARPENTER, B. Use herd sires of known quality. *Metrop. Milk Prod. News* 10(9):7,14. Sept.1950. 280.28 M56
- 4021 CAVANAUGH, J. F. Jerseys in America have type, production and efficiency. *Ind. Farmers Guide* 106(19):11. Oct.1,1950. 6 In2
- 4022 CHARBONNEAU, R. P. Ce que nous devons faire pour améliorer notre cheptel laitier. *Digeste de l'Éleveur* 4(12):10-13. Aug.1950. 49 D56
- 4023 COCKMAN, B. Flying bulls at work; delivering semen to Bruce County dairymen is just another accomplishment of the Waterloo A. I. Association. *Family Herald & Wk. Star* 81(38):7,16. Sept.21,1950. 7 F21
- 4024 CONNELLY, M. Brown Swiss have a progressive history and a productive future. *Ind. Farmers Guide* 106(19):8. Oct.1,1950. 6 In2
- 4025 CORDIEZ, E. L'insemination artificielle au point de vue zootechnique. *Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén.* 2(1):125-134. 1949. 43.9 C767
- 4026 DESCHAMPS, C. L'établissement des données zootechniques. Répond-elle aux exigences zootechniques actuelles? Comment les améliorer? Comment amener nos éleveurs à utiliser ces données plus largement qu'ils ne l'ont fait dans le passé? *Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén.* 2(1):101-115. 1949. 43.9 C767
- Hereditary traits.
- 4027 DIMITROPOULOS, E. Les aspects techniques de l'insemination artificielle chez les bovins. *Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén.* 2(1):155-174. 1949. 43.9 C767
- 4028 DUNCUMBE, A. M. Shorthorns, the South and the Mid-South Fair. *Livestock Wk.* 4(43):12,48. Aug.31, 1950. 49 L753
- 4029 EASLEY, G. T. Infertility in cattle. *Haver-Glover Messenger* 30(9/10):8-10. Sept./Oct.1950. 41.8 H29
- 4030 FANDEEV, B. V., and SHAPOSHNIKOV, A. N. Improvement of Kholmogorsk cattle breed. (In Russian.) *Sovet. Zootekh.* 4(6):9-17. June 1950. 49 So822
- 4031 FERRARI, E. Dairy cattle breeding by Dr. Taveggia. (In Italian.) *Riv. di Zootec.* 23:258-259. Aug. 1950. 49 R52
- 4032 GALIAKBEROV, N. Z., and TAVILDAROVA, T. F. New breed of cattle—Kazakhstan Belogolovaf. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(6):14-18. 1950. 20 Ak1
- 4033 GAY, C. W. Shorthorns for crossing and grading up. *Shorthorn World* 35(14):9-10,38-39. Oct.10, 1950. 43.8 Sh8
- 4034 GIUSTINI, G. Affirmation of the Marchigiana cattle at the third Osimo regional show. (In Italian.) *Gior. di Agr.* 60:328. Oct.15,1950. 16 It1G
- 4035 GREEN, H. G. The Galloways come back. *Family Herald & Wk. Star* 81(39):3,11. Sept.28,1950. 7 F21
- Galloway cattle in Quebec.
- 4036 HAMMOND, J. Polled cattle. *Westralian Farmers Co-op Gaz.* 19:93,95,97-98. Aug.1950. 280.28 W522
- Breeding.
- 4037 HARDY, W. J. Milking Shorthorns make progress as a true dual purpose breed. *Ind. Farmers Guide* 106(19):14. Oct.1,1950. 6 In2
- 4038 HEGHE, VAN. The specialization problem. (In Flemish.) *Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén.* 2(1):81-89. 1949. 43.9 C767
- French summary.
- Cattle selection.
- 4039 HEREFORD HERD BOOK SOCIETY. The herd book of Hereford cattle, v. 79. Hereford, 1949. 973 p. 43.9 H42H
- 4040 HIGLEY, P. I. Progress report on artificial breeding. *Certified Milk* 25(11):4-5,12-13. Nov.1950. 44.8 C33
- 4041 HILL, C. B. Adaptability, efficiency and long life all make Guernseys popular. *Ind. Farmers Guide* 106(19):9. Oct.1,1950. 6 In2
- 4042 HOLMES, R. H. British Cattle Breeders' Club; a survey of the Club's activities. *Ayrshire Cattle Soc. J.* 22:202-203. Oct.1950. 43.8 Ay74
- 4043 HOWIE, J. The herd book and the American system of registration; why I think our method should remain unchanged. *Ayrshire Cattle Soc. J.* 22:180-185. Oct.1950. 43.8 Ay74
- 4044 JERSEY-SINDHI crossbreeds. *Amer. Brahman Breeder* 1(3):22-23. May 1950. 43.8 Am34
- 4045 JOHNSON, A. R. Best place for your money? Why, in good Polled Herefords, of course. *Amer. Hereford J.* 41(13):218,264. Nov.1,1950. 43.8 Am32
- 4046 JOHNSON, L. E., HARSHFIELD, G. S., and MCCONE, W. Dwarfism; an hereditary defect in beef cattle. *J. Hered.* 41:177-181. July 1950. 44.2.8 Am3
- 4047 KASHINTSEV, S. Lebedinskafâ breed of cattle. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):33-34. June 1950. 281.8 K83
- 4048 KENAN, W. R. History of Rangleigh farm. *Ed. 6. Lockport, N. Y., 1950. Ref.* 377 p. 43 K33
- Jersey cattle farm.
- 4049 KIDWELL, J. F., and GUILBERT, H. R. A recurrence of the semi-hairless gene in cattle. *J. Hered.* 41:190-192. Ref. July 1950. 44.2.8 Am3
- 4050 KNOPFF, F. Schwarzbunte rinder auf der Westfalenschau in Hamm. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1136. Aug.24,1950. 18 L2346
- 4051 LANINA, A. V. Result of breeding a highly productive group of cattle in Central Kazakhstan. (In Russian.) *Sovet. Zootekh.* 4(6):18-25. June 1950. 49 So822
- 4052 LEADER, T. A. Outstanding herd bulls are secret of success in Alberta's Angus breeding. *Mkt. Examiner* 35(23):8-9. Oct.12,1950. 280.38 M34
- 4053 LECLERC, M. Tel taureau, tel troupeau. *Digeste de l'Éleveur* 4(8,i.e.9):12-13. (Concl.) May 1950. 49 D56
- 4054 LEFEBVRE, J. Quelques considérations au sujet du problème: races bovines à une ou à fins multiples. Aperçu général sur nos réalisations techniques. *Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén.* 2(1):67-80. 1949. 43.9 C767
- 4055 LÜTHY, H. Schweizerisches Braunvieh in Brasilien. *Schweiz. Landwirt. Monatsh.* 1950:287-295. Aug.20,1950. 17 Sch93
- 4056 MCCARTHY, D. Hereford beef breed a nine to one choice. *Natl. Live Stock Prod.* 29:10,15. Oct. 1950. 280.38 N21
- 4057 MACMILLAN, D. M. L. El ganado lechero británico y la raza Guernsey. *Rev. Nac. de Agr. [Bogotá]* 44(543):42-45. July 1950. 9.4 R32
- 4058 MCSADDEN, W. B. What is a futurity? *Tex. Livestock J.* 9(9):13-14. Sept.15,1950. 49 T29
- Aberdeen-Angus cattle.



- 4059 MALETTO, F. Artificial insemination of cows; practical observations and statistical data. (In Italian.) *Zootec. e Vet.* 5:784-794. Sept. 1950. 41.8 Z7  
English summary.
- 4060 MARCQ, J. Types bovins—résultats acquis; quelques remarques en élevage. *Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén.* 2(1):253-273. 1949. 43.9 C767
- 4061 MARSON, T. B. British breeds of livestock. II. The Scotch Shorthorn. *Brit. Agr. B.* 3(9):3-7. Spring 1950. 10 B776
- 4062 MARTIN, W. W. Pick your bull by his calves. *West. Farm Life* 52(20):5,11-12. Oct. 15, 1950. 6 R153
- 4063 MESSERSCHMIDT. Zebu-rinder in Westafrika. *Tierzüchter* 2:434-436. Aug. 20, 1950. 49 T445
- 4064 MIDTLID, S., and BERGE, S. Inheritable part of the variance in the Norwegian Red Poll breed of cattle. (In Norwegian.) *Norges Landbrøghgsk. Meld.* 30:115-148. 1950. 104 N762M  
English summary.
- 4065 MILLER, L. Missouri produces the Bonnie Blacks. *Mo. Farmer* 42(10):6. Oct. 1950. 6 M696  
Aberdeen-Angus beef cattle.  
Similar title in *West. Farm Life* 52(20):30,44. Oct. 15, 1950. 6 R153; *Natl. Live Stock Prod.* 29(2):10,13. Nov. 1950. 280.38 N21
- 4066 MONTANA HEREFORD ASSOCIATION. Montana Herefords directory, 1950. Billings, 1950. 111 p. 225 M762
- 4067 MONTGOMERY, G. A. El valor de su toro mientras es ternero. *Rev. Ganad. [San Salvador]* 9 (128/129):31-33. July/Aug. 1950. 8 R3292
- 4068 MUCCI, G. Future and possibilities of the Simmenthal breed in Friuli, Italy. (In Italian.) *Zootec. e Vet.* 5:747-752. Sept. 1950. 41.8 Z7
- 4069 NESS, A. R. La régée de la reproduction dans le troupeau. *Digeste de l'Éleveur* 5:7-9. Sept. 1950. 49 D56  
Dairy cattle.
- 4070 NORTH-LEWIS, D. Investigation and trials with insulated containers for the transport of [bovine] semen. *Brit. Vet. J.* 106:318-321. Sept. 1950. 41.8 V643
- 4071 ODLUM, G. Catch 'em alive. *Farmers Wk. [London]* 33(14):51,53. Oct. 6, 1950. 10 F2226  
Criticizes bull progeny records of the Friesian Society.
- 4072 ODLUM, G. Dutch blood for the "small man's" herd. Why? *Farmers Wk. [London]* 33(12):59. Sept. 22, 1950. 10 F2226  
Friesian cattle from Holland and results of previous importations in Great Britain.
- 4073 OLIVIER, L. Why the Friesian cow on the dairy farm. (In Dutch.) *So. African Dairymen* 12:271-273. Sept. 1950. 44.8 S0822
- 4074 PAK, D. N. Biological characteristics of [cattle] hybrids. (In Russian.) *Sovet. Zootekh.* 5(5):11-19. Ref. May 1950. 49 S0822
- 4075 PATERSON, D. Mechanising the herd book? American system not a suitable substitute. *Ayrshire Cattle Soc. J.* 22:188. Oct. 1950. 43.8 Ay74
- 4076 PEREYRA IRAOLA, R. L. El Hereford es la raza que mas ha mejorado en la última década. *Hereford* 17:427-428. Sept. 1950. 43.8 H42
- 4077 PICARD, A. J. Le controle laitier. *Agr. Charentais* 5(14):1-2. July 31, 1950. 14 Ag825  
Breeding control.
- 4078 PINARDI, V. Situation and outlook for the Holstein Friesian breed in the Province of Pavia. (In Italian.) *Riv. di Zootec.* 23:255-257. Aug. 1950. 49 R52
- 4079 POTVIN, J. B. Vive la Canadienne! *Digeste de l'Éleveur* 4(10,i.e.11):7-9. July 1950. 49 D56  
Canadian cattle.
- 4080 POU, J. W. Cow breeding troubles. *Md. Farmer* 34(9):13,31. Sept. 1950. 6 M362
- 4081 PROULX, J. R. Indice de production des jeunes taureaux. *Digeste de l'Éleveur* 5:10-13. Sept. 1950. 49 D56
- 4082 RAVEN, C. P. Electron microscopy of bull sperm. *Cong. Internat. de Zool. Compt. Rend.* (1948)13:225. 1949. 410.9 In8
- 4083 REED, O. E. Breeding better dairy cattle. *U. S. Bur. Dairy Indus. BDIM-Inf-109,4 p.* Sept. 1950. 1.973 D4B34  
Also in *Holstein-Friesian World* 47(19):20,121. Oct. 7, 1950. 43.8 H742; *South. Dairy Prod. J.* 48(5):66-69. Nov. 1950. 44.8 S083
- 4084 RICHARDSON, T. C. Brahman cattle, once regarded only as a circus curiosity, now are big influence in livestock breeds. *Farmer-Stockman* 53,i.e.63(10):9, 21. Oct. 1950. 6 Ok45
- 4085 RODIN, I. I., and SMIRNOV-UGRUMOV, D. V. Proper management of bulls. (In Russian.) *Sotsialist. Zhivotn.* 12(4):76-77. Apr. 1950. 49 S071
- 4086 ROELOFS, E. T. Erfelijkheid en fokkerij [Hereditary and breeding]. Ed. 2, enl. Assen, Van Gorcum, 1949. 118 p. 43 R62  
Chiefly cattle.
- 4087 ROHLFES. Die rinderzucht in Weser-Ems—glanzstück der landwirtschaft. *Landwirtsbl. Weser-Ems* 36:721-725. Sept. 6, 1960. 18 L2345
- 4088 ROISIN, E. Rapport sur l'élevage du bétail a deux fins en Belgique. *Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén.* 2(1):91-96. 1949. 43.9 C767
- 4089 ROLLINSON, D. H. L. Reproductive failure in the bull—its diagnosis and prognosis. *Vet. Rec.* 62:527-533. Ref. Sept. 9, 1950. 41.8 V641  
Includes discussion.
- 4090 ROTTENSTEN, K. Iagttagelser af undersøgelse over nedsat frugtbarhed hos kvaeg. II. [Observations and investigations on decreased fertility in cattle. II.]. Denmark. *Stat Husdyrbrugsudv. Forsøgslab. Beret.* 247, 51 p. 1950. 104 D41  
English summary.
- 4091 ROYAL JERSEY AGRICULTURAL AND HORTICULTURAL SOCIETY. AGRICULTURAL DEPT. Jersey herd book, v. 42, pt. 3. St. Helier, 1949? 229 p. 43.9 R813
- 4092 ROYAL JERSEY AGRICULTURAL AND HORTICULTURAL SOCIETY. AGRICULTURAL DEPT. Jersey herd book. Milk & butter fat records. Award list, 1949. St. Helier, 1950? 103 p. 43.9 R813
- 4093 ST-PIERRE, A. La race bovine Canadienne sur le marché du boeuf. *Digeste de l'Éleveur* 5:14-17. Sept. 1950. 49 D56
- 4094 SERTOLI, A. Organization of breeders of Brown Swiss cattle. (In Italian.) *Rass. Econ. della Prov. di Sondrio* 3(7/8):6-7. July/Aug. 1950. 287 S05
- 4095 SHARAR, S. Meaning of the term "preference bull." *Hassadeh* 30:580-581. July 1950. 28 H27  
In Hebrew.
- 4096 SLOAN, F. A. Red Poll cattle are typical of dual-purpose in its truest form. *Ind. Farmers Guide* 106 (19):15. Oct. 1, 1950. 6 In2
- 4097 SOBEK, V., and SOBEK, B. Report upon the activity of the insemination centre Havlíčkův Brod for the year 1949. (In Czech.) *Časopis Českoslov. Vet.* 5:335-339. Aug. 10, 1950. 41.8 C27  
English summary.
- 4098 SOCIEDAD AGRÍCOLA Y GANADERA. Registros genealógicos, control de producción lechera, Servicio Veterinario 1949-1950. *Agr. Austral* 18:347-367. Aug. 1950. 9.3 Ag842  
Chile.
- 4099 SOCIETÀ ITALIANA PER IL PROGRESSO DELLA ZOOTECNICA. XIIIth meeting of the Italian Society for the Progress of Zootechny, Piacenza, 12 Feb. 1950. (In Italian.) *Zootec. e Vet.* 5:540-577. June 1950. 41.8 Z7  
Includes presidential address by T. Bonadonna, on Holstein-Friesian cattle throughout the world, followed by discussion.
- 4100 TARELLI, A. E. Adquisición de un toro de raza lechera. *Argentina. Min. de Agr. Almanaque* 25:427-430. 1950. 9 Ag874
- 4101 TURK, K. L. Research attacks sterility problem. *Dairymen's League News* 34(20):6-7. Oct. 3, 1950. 44.8 D1432  
In cattle.
- 4102 VALERANI, L. Some observations concerning the most favourable time during estrus for carrying out artificial insemination in cows. (In Italian.) *Zootec. e Vet.* 5:532-537. June 1950. 41.8 Z7  
English summary.
- 4103 VANCE, M. They're tops! The cattle breeding program at Louisiana State University ranks among the best in the Nation. *Coastal Cattleman* 16(9):14-15. Nov. 1950. 43.8 C63
- 4104 VANDEMARK, N. L., BRATTON, R. W., and FOOTE, R. H. The fertility of bovine semen in citrate-yolk extenders containing added catalase. *J. Dairy Sci.* 33:661-665. Ref. Sept. 1950. 44.8 J822



- 4105 VANDEPLASSCHE, M. Points of importance in the technique of artificial insemination. (In Flemish.) Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén. 2(1):149-153. 1949. 43.9 C767  
French summary.
- 4106 VELASQUEZ Q., J. El ganado Blanco-Orejinegro. Rev. Nac. de Agr. [Bogotá] 44(543):29-33,35-40. (Cont.) July 1950. 9.4 R32
- 4107 VUYST, A. DE. L'insemination artificielle en Belgique. Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén. 2(1):305-325. 1949. 43.9 C767
- 4108 WAEL, L. DE. The importance of bull examinations. (In Flemish.) Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén. 2(1):97-100. 1949. 43.9 C767  
French summary.  
Physical examination before breeding.
- 4109 WALTHER, A. Die rindersterilität und ihre bekämpfung. Monatsh. f. Vetmed. 5:233-239. Sept. 1950. 41.8 M742
- 4110 WEBER. Die milchleistungen des futterdankbaren wirtschaftstyps in der Fleckviehzucht. Tierzüchter 2:427-429. Aug. 20, 1950. 49 T445
- 4111 WIGHTMAN, R. Breeding policy dictated by finance. Farmer & Stock-Breeder 64:2589. Sept. 19, 1950. 10 F228  
Dairy cattle.
- 4112 WIJERS, R. W. Raising of Red and White cattle in Germany. (In Dutch.) Overijsselsch Landtbl. 32 (1566):6;(1567):6. Aug. 19-26, 1950. 12 Ov2
- 4113 WILLEMS, A. E. R. The improvement of Belgian cattle. (In Flemish.) Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén. 2(1):295-302. 1949. 43.9 C767  
French summary.
- 4114 WILLEMSE, G. S. Africander cattle praised. Rhodesian Farmer 4(6):21. Aug. 16, 1950. 24 R347
- 4115 WOLFE, C. D. Faster gains through breeding. Amer. Soc. Farm Mgr. & Rur. Appraisers J. 14:119-124. Oct. 1950. 281.8 Am32  
Beef cattle.
- Feeds and Feeding**
- 4116 AFANAS'eva, M. S., and EREMIN, G. P. Zagonnaia past'ba skota [Grazing cattle in enclosures]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 46 p. 43 Af1
- 4117 AHRANO, F. W. Growing hay saves big money, makes better cows, can be done here. Fla. Cattleman 15: 62-63. Oct. 1950. 43.8 F66
- 4118 ALTARA, I., and BONFANTE, G. Does a vitamin A or  $\beta$ -carotene supplement in the diet of pregnant cows represent a prophylactic defense against infections in the new-born calf? (In Italian.) Arch. Vet. Ital. 1:5-13. Mar. 31, 1950. 41.8 Ar25  
English summary.
- 4119 ANCeschi, L. Feeding and stall shelters. (In Italian.) Avvenire Agr. 58:190-192. Aug. 1950. 16 Av9  
Cattle.
- 4120 ARMER, W. Supplemental feeding. Ariz. Cattlelog 6:16,18-19. Sept. 1950. 43.8 Ar42
- 4121 ASHE, A. J. Relation of milk produced per cow to feeding practices. N. Y. Agr. Col. Farm Econ. 175:4540. July 1950. 280.8 C812
- 4122 BAILEY, J. W. Fall feeding problem. Hoard's Dairyman 95:722. Oct. 10, 1950. 44.8 H65
- 4123 BARTLETT, S. Feeding standards for dairy herds. Farming [Norwich] 4:294-297. Oct. 1950. 10 F2236
- 4124 BEESON, W. M. Corn cobs and molasses. Flour & Feed 51(5):22-23. Oct. 1950. 298.8 F66  
For cattle feed.
- 4125 BOGART, R., AND BLACKWELL, R. L. More beef with less feed. Oreg. Agr. Expt. Sta. B. 488, 4 p. Oct. 1950. 100 Or3  
Rate of gain and feed required.
- 4126 BOHSTEDT, G. Bovine nutrition and trace minerals. Feedstuffs 22(37):35-38,40. Sept. 16, 1950. 286.81 F322
- 4127 BROUWER, E. Influence of grassland products on the quality of dairy produce. Internatl. Grassland Cong. Rpt. 5:298-302. Ref. 1949. 60.19 In85R
- 4128 CARIZZA, A. El forraje ensilado para el ganado lechero. Charla Rur. 134:26-27. Nov. 1949. 9 C37

- 4129 CLAY, L. Building big heifers. Checker-board News 1950:4-5. Nov./Dec. 1950. 389.78 C41  
Feeding.
- 4130 CORDIEZ, E. Les besoins en vitamine A des bovins en croissance. Ann. de Méd. Vét. 94:422-463. Ref. July 1950. 41.8 An78
- 4131 THE COW'S diet affects the quality of her milk. 2. Dairyman 67:563-564. Ref. Oct. 1950. 44.8 D1426
- 4132 CUNHA, T. J., and GLASSCOCK, R. S. Protein easily given to cattle, but adequate intake of some protein is absolutely necessary. Fla. Cattleman 15:58-60. Oct. 1950. 43.8 F66
- 4133 ELAM, F. L. Pull in the profit-feed for production. West. Dairy J. 6(12):11,31-32. Oct. 1, 1950. 44.8 W524
- 4134 ERIKSSON, T. A good herd. (In Swedish.) Ladugården 1950:243-245. Aug. 1950. 44.8 L12  
Chiefly on feeding.
- 4135 FOSTER, W. Quality beef from grass. Country Gent. 120(10):26,73-74,76. Oct. 1950. 6 C833
- 4136 FRANKENA, H. J. Milk control and fodder control. (In Dutch.) Alg. Nederland. Zuivelbond. Off. Orgaan 42:444-445. Sept. 13, 1950. 44.9 AL3  
Recording and effects of feeding.
- 4137 GLASSCOCK, R. S., CUNHA, T. J., and PEARSON, A. M. Observations on the value of sweet blue lupine seed meal as a feed for beef cattle. Fla. Agr. Expt. Sta. C. S-8, 6 p. May 1950. 100 F66C1
- 4138 GLASSCOCK, R. S., and others. Preliminary observations on citrus seed meal as a protein supplement for fattening steers and swine. Fla. Agr. Expt. Sta. C. S-12, 7 p. May 1950. 100 F66C1  
T. J. Cunha, A. M. Pearson, J. E. Pace and D. M. Buschman, joint authors.
- 4139 GLASSCOCK, R. S., CUNHA, T. J., and PEARSON, A. M. Preliminary observations on the comparative value of roughages for maintenance and growth of beef cattle. Fla. Agr. Expt. Sta. C. S-9, 5 p. May 1950. 100 F66C1
- 4140 GRENIER, O. E. Rations fed to milk cows, 1949. N. Dak. Agr. Expt. Sta. Bimon. B. 13:35-37. Sept./Oct. 1950. 100 N813B
- 4141 GRÜNIGEN, F. VON. Die bedeutung des unkrautes für die ernährung des rindviehs. Internatl. Grassland Cong. Rpt. 5:303-310. 1949. 60.19 In85R  
English summary.  
Includes discussion.
- 4142 GUPTA, N. C. DAS. Sugarcane tops as cattle feed in the United Provinces. Indian Farming 10:539-540. Dec. 1949. 22 In283
- 4143 HALL, E. K. Protein for the dairy cow. Farming So. Africa 25:239-240. July 1950. 24 So842
- 4144 HEADY, R. Geared to grass; Herefords get fat over old strip mines. Amer. Hereford J. 41(12):56-57, 171. Oct. 15, 1950. 43.8 Am32
- 4145 HEINEMANN, W. W., and others. Feeding value of sugar beet tops dehydrated, ensiled, and cocked in an open field; and dehydrated grass fed to fattening cattle. Wash. Agr. Expt. Sta. B. 517, 20 p. Ref. July 1950. 100 W27E  
H. P. Singleton, M. E. Ensminger, and W. E. Ham, joint authors.
- 4146 HENDERSON, B. W., JR., and NORTON, C. L. Grass silage for dairy cattle. R. I. Agr. Expt. Sta. B. 311, 20 p. Ref. Aug. 1950. 100 R34S
- 4147 HENRIKSSON, A. Experiences from this year's pasturing. (In Swedish.) Ladugården 1950:247-248. Aug. 1950. 44.8 L12  
Effects on milk production of cattle.
- 4148 HOLSTEIN FRIESIAN ASSOCIATION OF AMERICA. OFF. OF PRODUCTION RECORDS. Thyroprotein—it's an "unnatural stimulant", and should not be used, say all breed associations. Ohio Holstein News 14 (8):16. Oct. 1950. 43.8 Oh3  
Also in Pa. Holstein 9(8):7,15. Oct. 1950. 43.8 P38
- 4149 HORN, L. H., JR. Whole cottonseed vs. cottonseed meal for wintering beef cattle. Miss. Agr. Expt. Sta. Inform. Sheet 451, 1 p. Aug. 1950. 100 M69In
- 4150 IAGOVKIN, A. F. Utilization of Laminaria sacharina as feed for cattle. (In Russian.) Sovet. Zootekh. 7(7):87-93. July 1950. 49 So822



- 4151 JACOBSON, N. L., and others. Rate of absorption of carotene and of vitamin A from the alimentary tract of dairy calves. I. Effect of method of administration. *J. Dairy Sci.* 33:645-656. Ref. Sept.1950. 44.8 J822  
G. H. Wise, R. S. Allen, and O. Kempthorne, joint authors.
- 4152 JONES, J. M., and others. Bone meal and limestone supplements in calf fattening rations. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1283, 5 p. Oct.25, 1950. 100 T31P  
J. H. Jones, F. E. Keating, N. R. Ellis and R. T. Clark, joint authors.
- 4153 LEGENDRE, G. Rations pour vaches laitières plus ou moins productives. *J. de la France Agr.* 6:1185. Oct.27/Nov.2, 1950. 14 J829
- 4154 LEVECK, H., and others. Results of winter grazing tests, 1949-50. *Miss. Agr. Expt. Sta. C.* 155, 16 p. Aug.1950. 100 M69  
L. H. Horn, B. L. Arnold, S. P. Crockett, R. H. Means, L. Walton, and C. L. Blount, joint authors.  
Cattle grazing.
- 4155 MARTIN, J. Root and tuber crops in the feeding of dairy cattle. (In Flemish.) *Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén.* 2(1):189-194. 1949. 43.9 C767  
French summary.
- 4156 MARTIN, J. Winter feeding of dairy cattle. (In Flemish.) *Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén.* 2(1):175-187. 1949. 43.9 C767  
French summary.
- 4157 MASSINO, V. B., and SAMOKHVALENKO, S. K. Continuous green feed for cattle in the irrigated area [of Uzbekistan]. (In Russian.) *Sof'sialist. Zhivotnovod.* 12(5):37-38. May 1950. 49 So71
- 4158 MELTON, A. A., and others. Ground cotton stalks, ground gin trash and cottonseed hulls in rations for growing yearling steers. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1277, 3 p. Sept.27, 1950. 100 T31P  
N. B. Willey, J. H. Jones and P. J. Lyerly, joint authors.
- 4159 MOORE, L. A. A relationship between total digestible nutrients (T.D.N.) and estimated net energy values (E.N.E.), and a possible method of estimating net energy values with producing dairy cows. *U. S. Bur. Dairy Indus. BDI-Inf-114*, 4 p. Nov.1950. 1.973 D4B34
- 4160 MORRISON, J., and STEPHENSON, W. A. Winter fattening of bullocks with grass silage. *Gt. Brit. Min. Agr. Agriculture* 57:251-256. Sept.1950. 10 G79J
- 4161 OLSEN, L. Get those feed lots in order now! *U & I Cult.* 10(2):40. Aug.1950. 66.8 U12  
Cattle and lambs.
- 4162 PELLETIER, J. R., and FOREST, B. L'élevage et l'alimentation des taures. *Digeste de l'Éleveur* 5:21-23. Sept.1950. 49 D56
- 4163 PENTIUK, M. E. Fattening of [beef] cattle in inter-collective farm herds. (In Russian.) *Sof'sialist. Zhivotnovod.* 12(5):73-77. May 1950. 49 So71
- 4164 PERUR, N. G. Cacao bean husk as a cattle feed. *Poona Agr. Col. Mag.* 41:129-130. Aug.1950. 22 P79
- 4165 PHILLIPS, C. E., and BAKER, T. A. The value of pasture for milk production. *Del. Agr. Expt. Sta. B.* 286, 11 p. June 1950. 100 D37S
- 4166 PORTER, A. R. Corn silage as dairy cattle fodder. *Flying Plowman* 4(8):3. Sept./Oct.1950. 58.8 F67
- 4167 RAGSDALE, A. C. Reduce feed cost with better pastures. *Swift's Dairy & Poultry News* 5(3):1,3. Summer 1950. 49.9 Sw5
- 4168 REYNTENS, N. Meadow and meadow products in the feeding of cattle. (In Flemish.) *Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén.* 2(1):211-236. 1949. 43.9 C767  
French summary.
- 4169 RIGGS, J. K., MILLER, J. C., and GEE, A. J. Cottonseed meal to beef breeding cows wintering on pasture. *Cattleman* 37(6):76-77. Nov.1950. 49 C29
- 4170 RIGGS, J. K., MILLER, J. C., and GEE, A. J. Self-feeding mixtures of salt and cottonseed meal to beef breeding cows wintering on pasture. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1276, 4 p. Sept.27, 1950. 100 T31P
- 4171 RIVERA BRENES, L., CABRERA, J. I., and MARCHAN, F. J. The use of cane molasses as part of the concentrate dairy ration using Merker grass [*Pennisetum purpureum*] as roughage. *P. R. U. J. Agr.* 31:203-214. Ref. Apr.1947, pub. June 1950. 8 P832J
- 4172 RIVERA BRENES, L. The utilization of grasses, legumes and other forage crops for cattle feeding in Puerto Rico. 1. *P. R. U. J. Agr.* 31:180-189. Ref. Apr. 1947, pub. June 1950. 8 P832J
- 4173 ROHLF, J. A. 3 ways to make good beef from grass. *Farm J.* 74(10):44-45. Oct.1950. 6 F2212
- 4174 RUPP, R. G. There's money in raising beef on grass. *Farmer*, [St. Paul], Gen. Ed. 68(19):1,24-25. Oct.7, 1950. 6 F2211
- 4175 RUSOFF, L. L., and others. Dehydrated sweet potatoes as a substitute for corn-soybean silage. *J. Dairy Sci.* 33:657-660. Sept.1950. 44.8 J822  
G. D. Miller, B. J. Burch, Jr., and J. B. Frye, Jr., joint authors.  
In the dairy ration.
- 4176 SCHNEIDER, B. H. Silage for beef. *Amer. Brahman Breeder* 1(3):32-34. May 1950. 43.8 Am34  
Also in *Shorthorn World* 35(12):20-21. Sept.10, 1950. 43.8 Sh8
- 4177 SEGEV, M. Green fodder and hay in the ration of the milch cow. *Hassadeh* 30:577-580. (Concl.) July 1950. 26 H27  
In Hebrew.
- 4178 SEVERSON, H. They feed cows only once a day. *Successful Farming* 48(10):136,138-140. Oct.1950. 6 Sul2
- 4179 SMIRNOV, A. P. Raising young animals during the grazing period. (In Russian.) *Sof'sialist. Zhivotnovod.* 12(5):81-82. May 1950. 49 So71  
Chiefly on experiments in feeding calves at Kalininskaya Oblastnaya Stanitsa Zhivotnovodstva.
- 4180 THOMPSON, J. C. Balanced nutrition makes the difference. *West. Livestock J.* 28(54):41,57-58,60-61. Sept.15, 1950. 6 F2278  
Range cattle nutrition.
- 4181 TRETSVEN, J. O. Nutrition problems in dairy and hog production. *Feedstuffs* 22(37):49-50,52-54. Sept.16, 1950. 286.81 F322
- 4182 TRIMBERGER, G. W. Thyroprotein feeding is still questionable. *Guernsey Breeders' J.* 80:400-401, 626. Oct.1, 1950. 43.8 G93
- 4183 TUOMAINEN, L. Effect of nicotinic acid feed on the blood of the cow and the nicotinic acid percentage of the milk. *Suomen Kemistilehti. B* 23:69-70. 1950. 385 Su7
- 4184 WARD, A. L. There is economy in good feeding. *Shorthorn World* 35(12):9-10,65. Sept.10, 1950. 43.8 Sh8
- 4185 WARD, R. E. Milksaver—a new Eastern States feed. *East. States Coop.* 26(10):9. Oct.1950. 280.28 Ea7  
For calves.
- 4186 WEBER, A. D., AICHER, L. C., and KESSLER, F. B. Beef cattle feeding and grazing investigations for 1947-48. *Kans. Agr. Expt. Sta. C.* 260, 15 p. Sept.1950. 100 K13S
- 4187 WEBER, A. D., AICHER, L. C., and KESSLER, F. B. Beef cattle feeding and grazing investigations for 1948-49. *Kans. Agr. Expt. Sta. C.* 261, 15 p. Sept.1950. 100 K13S
- 4188 WEIHING, R. M., MONCRIEF, J. B., and DAVIS, W. C. Yearlong grazing in the rice-pasture system of farming. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1280, 4 p. Oct.5, 1950. 100 T31P  
Beef production from improved and unimproved pastures in Texas.
- 4189 WELCH, H. The requirements and sources of phosphorus for cattle. *Feedstuffs* 22(38):17,19-21. Sept.23, 1950. 286.81 F322

#### Veterinary Medicine

- 4190 AGRIMI, P. Normal glycemia in cattle of the Apunian region. (In Italian.) *Arch. Vet. Ital.* 1:283-294. Sept.30, 1950. 41.8 Ar25  
English summary.
- 4191 ANCESCHI, L. Cattle health and production. (In Italian.) *Avvenire Agr.* 58:204-206. Sept.1950. 16 Av9
- 4192 ANDRÉS, J. Les réactions spécifiques et non spécifiques de la peau lors de la tuberculisation intradermique. *Off. Internat. des Épizoot.* B. 34:324-337. May 1950. 41.8 Of2  
In cattle.



- 4193** ANDRES, J., and others. Schlussbericht der expertenkommission zur beurteilung von fragen über die schutzimpfung gegen die rindertuberkulose. Schweiz. Arch. f. Tierheilk. 92(spec.no.), 38 p. Sept. 1950. 41.8 Sch9  
Hallauer, Hofmann, Schnyder, and Wegelin, joint authors.
- 4194** BAILEY, J. W. When cows "lose" their cuds. Hoard's Dairyman 95:683. Oct. 10, 1950. 44.8 H65  
Treatment of various ailments.
- 4195** BALLANTYNE, E. E. Federal-provincial brucellosis control program. Canad. Cattleman 13(9):16-17, 36. Sept. 1950. 49 C16
- 4196** BARDOULAT. Grippe des bovidés : sinusite. Rec. de Méd. Vét. 126:475-478. Aug. 1950. 41.8 R24
- 4197** BAREGGI, G. Pathogénie de la trichomoniasse chez le taureau. Off. Internat. des Epizoot. B. 33:406-418. July/Aug. 1950. 41.8 Of2  
Includes discussion.
- 4198** BELTRÁN MONFERRER, J. M. Zoonosis transmisibles a la especie humana; las mamitis de las hembras lecheras. I. Cím. Ofic. Sind. Agr. de Barcelona. B. 5:239-240. Sept. 1950. 15 C14
- 4199** BENT, D. A cow's cud into that calf. Breeder's Gaz. 115(10):6. Oct. 1950. 49 B74
- 4200** BERTL, H. Elf bis dreizehn prozent! Die jährlichen kuhverluste durch krankheiten. Landwirtschaft 1950:232-233. Aug. 1950. 19 L235
- 4201** BLAKEMORE, F. Bovine tuberculosis and its eradication. Farming [Norwich] 4:298-301, 304. Oct. 1950. 10 F2236
- 4202** BLASER, E. Ein beitrag zur klinik und therapie der puerperalen infektionen beim rinde mit neueren sulfonamiden und penicillin. Schweiz. Arch. f. Tierheilk. 92:533-553. (To be cont.) Sept. 1950. 41.8 Sch9
- 4203** BOURNE, R. F. The physiology of disease. VII. Mountain sickness and brisket disease of cattle. No. Amer. Vet. 31:725-728. Nov. 1950. 41.8 N812
- 4204** BOYD, A. G. Calhhood vaccination program against brucellosis progressing. Calif. Dept. Agr. B. 39:114-115. July/Sept. 1950. 2 C12M
- 4205** BRENNAN, A. D. J., and DALLING, T. Réactions non spécifiques à l'épreuve par la tuberculine. Off. Internat. des Epizoot. B. 34:307-315. May 1950. 41.8 Of2  
In cattle.
- 4206** BULLARD, J. F. Mastitis or garget in cattle. Purdue U. Agr. Ext. B. 358, 12 p. 1950. 275.29 In2E
- 4207** CARNEIRO, V. Studies on Aujeszky's disease in Brazil. (In Portuguese.) Inst. Biol. São Paulo. Arq. (1949/50)19:153-174. Ref. 1950. 442.9 Sa6  
English summary.  
In cattle and swine.
- 4208** CHALKER, J. W. S. Towards complete attestation. Austral. Milk & Dairy Prod. J. 17(7/8):32-33. July/Aug. 1950. 44.8 Au72  
Tuberculosis testing for dairy cattle in Great Britain.
- 4209** CHWOJNOWSKI, A. A case leucosis in a heifer. (In Polish.) Med. Weter. 6:298-299. May 1950. 41.8 M463
- 4210** CLARK, R. A review of our present knowledge of factors and drugs influencing ruminal motility. So. African Vet. Med. Assoc. J. 21:49-57. Ref. June 1950. 41.8 So8  
Cattle.
- 4211** COOPER, G. W., FORD, C. M., and ROBINSON, C. R. Some sulfa drugs with penicillin, and dihydrostreptomycin with penicillin, as infusions in the treatment of [bovine] mastitis. No. Amer. Vet. 31:656-659. Ref. Oct. 1950. 41.8 N812
- 4212** CORDIEZ, E. Vitamine C et pouvoir fécondant du taureau. Ann. de Méd. Vét. 94:373-384. Ref. June 1950. 41.8 An78
- 4213** CORRIAS, A., and BASS, E. La déviation du complément dans le diagnostic de la trichomoniasse bovine. Off. Internat. des Epizoot. B. 33:402-405. July/Aug. 1950. 41.8 Of2
- 4214** CORRIAS, A., and BONFANTE, G. Local treatment of streptococcal mastitis with penicillin in oill. (In Italian.) Prog. Vet. 5:368-369, 371-374. Ref. July 1, 1950. 41.8 P942  
Cattle.
- 4215** CROSFIELD, P. Mastitis in a bull. Vet. Rec. 62:533. Sept. 9, 1950. 41.8 V641  
Streptococcus agalactiae infection in vestigial teat.
- 4216** DAKSHINKAR, P. K. An extra-ordinary case of choking in a bull. Indian Vet. J. 27:129-130. Sept. 1950. 41.8 In2  
Esophagotomy for removal of bamboo stick.
- 4217** DIVEKAR, K. V. Haemotherapy in corneal opacity. Indian Vet. J. 27:132-134. Sept. 1950. 41.8 In2  
Cattle.
- 4218** DOBROWOLSKA, D., and JAŚKOWSKI, L. Investigations on the value of the culture method for the discovery of trichomoniasis in bulls. (In Polish.) Med. Weter. 6:213-216. Apr. 1950. 41.8 M463  
English summary.
- 4219** DONATIEN, A., BERNARD, C., and GAYOT, G. Existence de la leptospirose bovine en Algérie. Acad. Vét. de France. B. 23:363-364. July 1950. 41.9 R24
- 4220** DONKER-VOET, J. Brucella abortus infection in Indonesia. Doc. Neerland. et Indonesica de Morbis Trop. 2:147-149. June 1950. 448.8 D65  
In cattle.
- 4221** DRIEUX, H., and others. Hypotrichose congénitale avec anodontie, acérite et macroglossie chez le veau. Rec. de Méd. Vét. 126:385-399. July 1950. 41.8 R24  
M. Priouzeau, G. Thiéry, and M. L. Priouzeau, joint authors.
- 4222** DYCK, VAN. Comment réduire la laderrie bovine dans l'Ituri. Cour. Agr. 15(17):3. Aug. 16, 1950. 24 C83
- 4223** EISENREICH, L., and MENNICKE, U. Der quantitative verlauf der milchbildung. II. Milchwissenschaft 5:310-313. Sept. 1950. 44.8 M5933  
Lactation.
- 4224** EMPEY, G. F. How to cut calving losses. West. Livestock J. 28(54):42, 74, 76. Sept. 15, 1950. 6 F2278  
Caesarean operations.
- 4225** ESTERBROOKS, H. L., and PLASTRIDGE, W. N. Intrauterine antibiotic treatment of vibronic sterility in dairy cows. Amer. Vet. Med. Assoc. J. 117:388. Nov. 1950. 41.8 Am3  
Streptomycin to control Vibrio foetus infection.
- 4226** EVANS, O. R. Canada aids the battle for beef; at a secret laboratory on the St. Lawrence River Canadian and American scientists developed a protective vaccine for the world's beef cattle. Family Herald & Wk. Star 81(41):3. Oct. 12, 1950. 7 F21  
Rinderpest vaccines.
- 4227** EWY, Z. Hormonal correlation of lactation. (In Polish.) Med. Weter. 6:167-169. Ref. Mar. 1950. 41.8 M463  
Cattle.
- 4228** FARLEY, H., and others. Infectious keratitis, "pinkeye", in cattle. Cattleman 37(5):27-29, 58, 60, 62. Oct. 1950. 49 C29  
L. E. Foote, C. C. Pearson, W. E. Brock, and I. O. Kilewer, joint authors.
- 4229** FEDIUSHIN, V. P., and UTESHEV, A. I. Malignant catarrhal fever in cattle. (In Russian.) Veterinarni 27(7):28-30. July 1950. 41.8 V6426
- 4230** FINCHER, M. G. An approach to the [bovine] mastitis problem. Amer. Vet. Med. Assoc. J. 117:311-323. (Concl.) Ref. Oct. 1950. 41.8 Am3
- 4231** FISHER, G. J. Foot rot: the cause of serious loss to dairy farmers. Milk Bd. J. 1:408, 410. Aug. 15, 1950. 44.8 M5934
- 4232** FLORENT. Diagnostic de la trichomoniasse du bétail. Off. Internat. des Epizoot. B. 33:375-401. July/Aug. 1950. 41.8 Of2  
Includes discussion.
- 4233** FLORENT. Prophylaxie de la trichomoniasse [bovine]. Off. Internat. des Epizoot. B. 33:419-426. July/Aug. 1950. 41.8 Of2  
Includes discussion.
- 4234** FRENKEL, H. S. Research on foot-and-mouth disease. II. The cultivation of the virus in explantations of tongue epithelium of bovine animals. Amer. J. Vet. Res. 11:371-373. Ref. Oct. 1950. 41.8 Am3A
- 4235** GALLINA, L. On the etiology of puerperal collapse. (In Italian.) Zootec. e Vet. 5:757. Sept. 1950. 41.8 Z7  
Cattle.
- 4236** GOSS, L. W. The early diagnosis of free-martin. No. Amer. Vet. 31:653-655. Oct. 1950. 41.8 N812
- 4237** GÖTZE, R. Aus dem gebiete der rinderchirurgie. I-II. Deut. Tierärztl. Wchnsch. 57:274-277. Sept. 1, 1950. 41.8 D482  
I, Fremdkörper im Ösophagus; II, Rumentomie.



- 4239 GRAYSON, A. R. The control of contagious pleuro-pneumonia in cattle in Victoria. *Austral. Vet. J.* 26:163-166. July 1950. 41.8 Au72
- 4239 GRAYSON, A. R. Ergotism in cattle. *Austral. Dairy Rev.* 18(8):15. Aug.1, 1950. 44.8 Au73
- 4240 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Blackquarter, quarter ill, or blackleg. *Gt. Brit. Min. Agr. & Fisheries. Anim. Health L.* 41,4 p. July 1950. 41.9 G792A  
Cattle and sheep.
- 4241 GREZIN, V. F. Penicillin-therapy of hard forms of endometritis in cows. (In Russian.) *Veterinariia* 27(7):53-54. July 1950. 41.8 V6426
- 4242 HEDSTROM, H. Réactions spécifiques et non spécifiques de la peau lors de la tuberculisation intradermique. *Off. Internatl. des Epizoot. B.* 34:316-323. May 1950. 41.8 OF2  
In cattle.
- 4243 HENRIQUES, E. Does mechanical milking cause more udder infection? (In Danish.) *Dansk Landbr.* 69:404-405. Aug.3, 1950. 280.28 V91
- 4244 HESS, E. Diagnosis and treatment of bulls infected by *Trichomonas mazzanti* (i.e. foetus). (In Italian.) (Sum.) *Zooprofilassi* 5:392-394. Aug.1950. 41.8 Z72
- 4245 HIRNLE, Z. Amputation of the prolapsed uterus in a cow. (In Polish.) *Med. Weter.* 6:228-229. Apr. 1950. 41.8 M463
- 4246 HOLM, G. C., and EVELETH, D. F. Mastitis control. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:3-7. Sept./Oct.1950. 100 N813B  
In cattle.
- 4247 HOLMES, J. R. Observations on the incidence of subclinical ketosis in a dairy herd. *Brit. Vet. J.* 106:365-377. Oct.1950. 41.8 V643
- 4248 HOW I handle bovine engorgements in my practice. *Jen-Sal J.* 1950:4-6,28. Sept.1950. 41.8 J45  
Short statements by E. J. Frick, C. O. Petry, E. F. Ebert, and F. B. Young.
- 4249 HUDDLESON, I. F., SANDERS, E., and MATTANO, L. A. The binding of blood serum gamma globulin by sulfadiazine. *Amer. J. Vet. Res.* 11:366-370. Oct.1950. 41.8 Am3A  
Study on bovine blood.
- 4250 IAKUSHEV, V. I. Differences in blood pressure of milch cows of various productivity. (In Russian.) *Sovet. Zootekh.* 4(6):54-67. June 1950. 49 So822
- 4251 INFERTILITY in cattle with special reference to trichomoniasis. I-IV. *Vet. Rec.* 62:539-544. Sept.16, 1950. 41.8 V641  
Symposium: I, The clinical aspect and diagnosis of trichomoniasis, with particular reference to the bull, by J. P. Harding, p. 539-540; II, The host-parasite relationship between the female bovine and *Trichomonas foetus*, by A. E. Pierce; III, Infertility from the point of view of an officer in charge of an artificial insemination centre, by D. M. Thomson; IV, Non-specific infertility, by W. B. Shaw.
- 4252 JÉKIEL, N. L'Iran arrête la progression de la peste bovine vers l'ouest. (In Persian.) *Téhran. U. d'État. Facul. Vét. Rev.* 1950:103-108. 41.9 T23  
French summary, p. 5-11.
- 4253 JONATHAN, S. R. The life history of the rumen flukes [*Paramphistomum* (?) sp.] of cattle in New Zealand. *Austral. Vet. J.* 26:149-151. July 1950. 41.8 Au72  
Planorbis kahuika is possible intermediate host.
- 4254 JONDET, M. R. Symptomatology, diagnostic, prophylaxie, traitement de la trichomonose bovine. *Acad. Vét. de France. B.* 23:345-348. July 1950. 41.9 R24
- 4255 JUNGHER, E. L., HELMBOLDT, C. G., and EATON, H. D. Parotid gland lesions in experimental bovine vitamin A deficiency. *J. Dairy Sci.* 33:666-675. Ref. Sept.1950. 44.8 J822
- 4256 KAARDE, I. A., and SIARE, R. K. Treatment of esophagus obstruction [in cattle] by water pressure. (In Russian.) *Veterinariia* 27(7):52. July 1950. 41.8 V6426
- 4257 KESLER, E. M., REID, J. J., and KNOTT, C. B. Selection of sample in determination of the streptococcal flora of the udder. *J. Dairy Sci.* 33:676-679. Sept.1950. 44.8 J822
- 4258 KUBE. Noch einmal über deckinfektionen und den versuch einer bekämpfung in der ländlichen praxis. *Berlin. u. Münch. Tierärztl. Wehnschr.* 1950:132-135. Ref. July 1950. 41.8 B45  
Relation to sterility in cattle.
- 4259 KUHN, J. Mangelnde klauenpflege und ihre folgen. *Hannoversche Land- u. Forstwirt. Ztg.* 103:391-392. Apr.15, 1950. 18 H194  
Cattle.
- 4260 LAL, M. B., and CHOWDHURY, N. K. Anticoagulant activity of the Indian cattle leech. *Nature [London]* 166:480. Sept.16, 1950. 472 N21
- 4261 LANG, K. Multiple leberblutungen bei der tuberkulose des rindes. (Peliosis hepatis.). *Berlin. u. Münch. Tierärztl. Wehnschr.* 1950:127-131. July 1950. 41.8 B45
- 4262 LANGHAM, R. F. A clinical and pathological study of vitamin A deficiency in calves. *Mich. U. Microfilm Abs.* 10(3):32-33. 1950. 241.8 M58
- 4263 LAPAGE, G. Parasites and the farmer; more about redwater fever. *Farming [Norwich]* 4:288. Sept. 1950. 10 F2236  
Caused by *Babesia bovis*.
- 4264 LAPOLLA, L. Genoskinreaction and sexual functions in cows. (In Italian.) *Zootec. e Vet.* 5:474-481. Ref. June 1950. 41.8 Z7  
English summary.  
Ceni's skin test.
- 4265 LAVRENT'EV, P. A. Chemoprophylaxis of piroplasmosis and franciellosis [in cattle]. (In Russian.) *Veterinariia* 27(7):27. July 1950. 41.8 V6426
- 4266 LENERT, A. A. Surgical treatment of gangrenous mastitis. *No. Amer. Vet.* 31:660-661. Oct.1950. 41.8 N812  
In cattle.
- 4267 LIENERT, E. Die pharmakotherapie der pantentympanie mit besonderer berücksichtigung der pharmakodynamik des tartarus stibiatus auf den pansen. *Wien. Tierärztl. Monatsschr.* 37:634-644, 677-688. (Cont.) Sept.-Oct.1950. 41.8 T345  
Cattle.
- 4268 LIPNICKI, J. The problem of the control of breeding diseases of cattle in Poland. (In Polish.) *Med. Weter.* 6:274-280. Ref. May 1950. 41.8 M463  
Brucellosis, tuberculosis, sterility, etc.
- 4269 MACHADO, A. V. Preliminary study over the occurrence of reticulocytes in anaplasmosis and piroplasmosis. (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 4:185-196. Ref. Dec.1949. 41.8 Sa6  
English summary.  
Cattle.
- 4270 MACINDOE, R. H. F. What can we do about Johne's disease? *Austral. Vet. J.* 26:216-220. Aug.1950. 41.8 Au72  
Includes discussion.  
Cattle.
- 4271 MACLAY, M. H., and STANNARD, A. L. Dis-taqueine (procaine penicillin G) suspension: blood levels in cattle. *Vet. Rec.* 62:579-580. Sept.30, 1950. 41.8 V641
- 4272 MANTILLARO, R. Considerations and remarks about the content of chlorine in cow's colostrum ante et post-partum. (Experimental contribution) (1st note). (In Italian.) *Mondo del Latte* 1950:336,339-340, 342-343, 345-346. Ref. July 1950. 44.8 M74  
English summary.
- 4273 MARINI, G. M. Osteomalacia in the Montello region. (In Italian.) *Prog. Vet.* 5:374,377. July 1, 1950. 41.8 P942  
Calcium deficiency in cattle.
- 4274 MAYER. Wichtiges über die trichomonaden-seuche. *Allgäuer Bauernbl.* 18:447. Aug.10, 1950. 18 AL53  
In cattle.
- 4275 MEDEIROS, L. T. N. S. DE. Phenomena of photosensitivity in the cattle herd of the Island of São Miguel. (In Portuguese.) *Azores. Comis. Regulad. dos Cereals. B.* 6(12):84-89. Second Semes.1950. 15 Az6  
Cattle coat.
- 4276 MERILAN, C. P., and others. The reliability of various diagnostic tests and the efficiency of certain therapeutic measures in control of mastitis. *Mo. Agr. Expt. Sta. Res. B.* 454,26 p. Ref. Feb.1950. 100 M693  
H. A. Herman, J. E. Edmondson, K. L. Tallman, and O. S. Crisler, joint authors.  
Mastitis in dairy cattle.
- 4277 MEYER, E., and VERGES, P. Mouse pathogenicity as a diagnostic aid in the identification of *Actinomyces bovis*. *J. Lab. & Clin. Med.* 36:667-674. Ref. Oct.1950. 448.8 J8233



- 4278 MORGAN, B. B. Studies on *Trichomonas foetus*: the role of the uterine mucosa. Cong. Internat. de Zool. Compt. Rend. (1948)13:209. 1949. 410.9 In8  
In cattle.
- 4279 MORSE, W. C. Another practitioner's experiences with [bovine] mastitis. Vet. Med. 45:437,442. Nov.1950. 41.8 M69
- 4280 MYERS, T. R. Anaplasmosis in cattle. Amer. Cattle Prod. 32(5):24-25. Oct.1950. 49 P94
- 4281 NAJSMITH, R. S. A review of fifty cases of rumenotomy. Vet. Rec. 62:581-583. Sept.30,1950. 41.8 V641  
In cattle.
- 4282 NARDARI, A. On a case of schistosomus reflexus in a bovine. (In Italian.) Prog. Vet. 5:378-379. July 1,1950. 41.8 P942
- 4283 NEUMANN K., A. Viruela bovina; cow pox—kuhpocken. Agr. Austral 18:300-301. July 1950. 9.3 Ag842
- 4284 NIELSEN, J. Arvelig lamhed hos kalve [Congenital paralysis in calves]. Odense, Andelsbogtrykkeriet, 1950. 173 p. 41.2 N559  
Red Danish cattle.
- 4285 OLSON, C., JR., COOK, R. H., and BROUSE, E. M. The relation of feed to an outbreak of bovine hyperkeratosis. Amer. J. Vet. Res. 11:355-365. Ref. Oct.1950. 41.8 Am3A
- 4286 PAIVA, O. M., and ERRICO, A. A. D'. Distance from the Papilla duodeni hepatica to the Papilla duodeni pancreatica in Brahman crossbreds (statistical study of 324 observations). (In Portuguese.) São Paulo U. Facul. de Med. Vet. Rev. 4:5-26. Ref. Dec.1949. 41.8 Sa6  
English summary.
- 4287 PELI. La découverte de l'agent de la trichomonose bovine. Off. Internat. des Epizoot. B. 33:348-351. July/Aug.1950. 41.8 Of2  
Includes original description of *Trichomonas utero-vaginalis* (= *T. foetus*) by E. Mazzanti.
- 4288 PELI. L'insémination artificielle dans la prophylaxie de la trichomonose. Off. Internat. des Epizoot. B. 33:427-430. July/Aug.1950. 41.8 Of2  
Includes discussion.
- 4289 PENHA, A. M., and APICE, M. D'. Studies on infectious diarrhea of calves. II. Experiments on vaccination and transmission of maternal immunity from the cow to the new-born calf. (In Portuguese.) Inst. Biol. São Paulo. Arg. (1949/50)19:309-324. Ref. 1950. 442.9 Sa6  
English summary.
- Paratyphoid infection caused by *Salmonella dublin*.
- 4290 POUNDEN, W. D., and HIBBS, J. W. The development of calves raised without protozoa and certain other characteristic rumen microorganisms. J. Dairy Sci. 33:639-644. Ref. Sept.1950. 44.8 J822
- 4291 POUNDEN, W. D., and GROSSMAN, J. D. Wall structure and closing mechanisms of the bovine teat. Amer. J. Vet. Res. 11:349-354. Ref. Oct.1950. 41.8 Am3A
- 4292 PREWETT, L. P. John's disease. Epidemiology and control under Victorian conditions. Austral. Vet. J. 26:213-216. Aug.1950. 41.8 Au72  
Cattle.
- 4293 PULLINGER, E. J. The condemnation of calves at Johannesburg abattoir with special reference to calf paratyphoid. So. African Vet. Med. Assoc. J. 21:58-64. June 1950. 41.8 So8
- 4294 RALAVERA BOTO. La trichomonose bovine en Espagne. Off. Internat. des Epizoot. B. 33:359-360. July/Aug.1950. 41.8 Of2
- 4295 RAMON, G. La trichomonose bovine: sa répartition en Europe et dans le monde. Off. Internat. des Epizoot. B. 33:340-346. Ref. July/Aug.1950. 41.8 Of2
- 4296 RAO, B. H. V. D. Umbilical hernia in a bull. Indian Vet. J. 27:130-131. Sept.1950. 41.8 In2
- 4297 RASTEGAR. Etat de nos connaissances sur les méthodes d'immunisation contre la peste bovine. (In Persian.) Téhéran. U. d'Etat. Facul. Vét. Rev. 1950:3-28. 41.9 T23  
French summary p. 4-5.
- 4298 RAU, K. G., and GOVIL, J. L. An improved haemorrhagic septicaemia vaccine. Indian Vet. J. 27:105-113. Ref. Sept.1950. 41.8 In2  
Pasteurella multocida (= bovis septica) infection in cattle.
- 4299 RICHARDSON, M. A. A study of the Brucella growth-inhibiting factor in bovine serum and colostrum. Mich. U. Microfilm Abs. 10(3):8-9. 1950. 241.8 M58
- 4300 ROARK, D. B., and HERMAN, H. A. Physiological and histological phenomena of the bovine estrual cycle with special reference to vaginal-cervical secretions. Mo. Agr. Expt. Sta. Res. B. 455,70 p. Ref. Feb. 1950. 100 M693
- 4301 ROJAS MALDONADO, C. A. Varias crfas al año puede dar una vaca. Rev. Agr. y Ganad. 12(126):12-13. July 1950. 9.4 R327  
British research in ova transplantation.
- 4302 ROSTENBACH, W. You can control mastitis with a plank and common sense. Hoard's Dairyman 95:694-695. Oct.10,1950. 44.8 H65
- 4303 RUFIN, M., and VERDIER, J. R. Vaccinations par le B.C.G. dans le département du Cher; une expérience sur le plan départemental. Acad. Vét. de France. B. 23:399-401. July 1950. 41.9 R24  
For bovine tuberculosis.
- 4304 RUIZ MARTINEZ, C. La mamitis de la vaca. Indus. Lechera 32:347-350,374-376. (To be cont.) July 1950. 44.8 In26
- 4305 RUNGE, S. The excretion of the calcium by way of the urine in cows. (In Polish.) Med. Weter. 6:286-290. Ref. May 1950. 41.8 M463  
English summary.
- 4306 SAINT-QUENTIN, M. Les tares des onglons chez les bovins. Rustica 23:766-767. Sept.10,1950. 14 R92
- 4307 SCHALM, O. W. Effects of aureomycin on *Staphylococcus pyogenes* [i.e. *Micrococcus pyogenes aureus*] in the bovine mammary gland. Amer. Vet. Med. Assoc. J. 117:396-399. Nov.1950. 41.8 Am3
- 4308 SENZE, A. Experiments in applying the alcohol as an epidural anesthesia in cows. (In Polish.) Med. Weter. 6:227-228. Apr.1950. 41.8 M463  
English summary.
- 4309 SERRA, A. Some quinone derivatives with vitamin K action in the cure of bovine brucellosis. (In Italian.) Arch. Vet. Ital. 1:153-167. Ref. June 30,1950. 41.8 Ar25  
English summary.
- 4310 SFONDRINI, G. Some morphological observations on the blood of cows during pregnancy. (In Italian.) Zootec. e Vet. 5:730-734. Sept.1950. 41.8 Z7  
English summary.
- 4311 SHIELDS, B. E. Fall freshening ranks high among money making management practices. Sealtest Dairyman 4(5):3. Sept./Oct.1950. 44.8 Se1
- 4312 SIEGRIST, J. J. Contribution à l'étude de la standardisation de l'épreuve d'agglutination dans le diagnostic de l'avortement à bacilles de Bang. Off. Internat. des Epizoot. B. 34:277-283. May 1950. 41.8 Of2
- 4313 SIMINTZIS, G., and SOHIER, R. La séro-agglutination de S. Arloing et P. Courmont dans le diagnostic de la tuberculose bovine. Acad. Vét. de France. B. 23:385-391. July 1950. 41.9 R24
- 4314 SIMON, J., and others. Sulphone and penicillin separately and combined in the treatment of streptococci mastitis. Amer. Vet. Med. Assoc. J. 117:400-402. Nov. 1950. 41.8 Am3  
G. R. Spencer, M. E. Kraft, and M. Schenk, joint authors.
- Streptococcus agalactiae infection in cattle.
- 4315 SINGH, S. A note on bovine trypanosomiasis in military farms and its control by 'antrypol'. Indian Vet. J. 27:74-77. Sept.1950. 41.8 In2  
Surra in cattle and buffaloes.
- 4316 SLANETZ, L. W., and ALLEN, F. E. Aureomycin in the treatment of bovine mastitis. Amer. Vet. Med. Assoc. J. 117:392-395. Ref. Nov.1950. 41.8 Am3
- 4317 SOHIER, R., SIMINTZIS, G., and JUILLARD, J. La réaction d'hémagglutination type Middlebrook-Dubos dans le diagnostic de la tuberculose bovine. Acad. Vét. de France. B. 23:393-397. July 1950. 41.9 R24
- 4318 SPENCER, G. R., and others. Antibacterial drugs in bovine mastitis. Amer. Vet. Med. Assoc. J. 117:414-418. Nov.1950. 41.8 Am3  
M. E. Kraft, J. Simon, and M. Schenk, joint authors.
- 4319 STABLEFORTH, A. W. Die mastitiden der rinder mit besonderer berücksichtigung der bekämpfung des Str. agalactiae. Deut. Tierärztl. Wchnschr. 57:253-258. Aug.15,1950. 41.8 D482
- 4320 STABLEFORTH, A. W. Standardisation du diagnostic de la brucellose bovine par l'épreuve de séro-agglutination. Off. Internat. des Epizoot. B. 34:229-247. Ref. May 1950. 41.8 Of2



- 4321 STALLCUP, O. T. Some factors affecting the carotenoid and vitamin A levels in the blood and milk of dairy cattle. *Mich. U. Microfilm Abs.* 10(3):34-35. 1950. 241.8 M58
- 4322 STASKIEWICZ, G. Beiträge zur pharmakologie des oleum terebinthinae am überlebenden uterus des rindes. *Schweiz. Arch. f. Tierheilk.* 92:574-581. Sept. 1950. 41.8 Sch9
- 4323 STEPHENS, C. Urticaria in a cow. *Vet. Med.* 45:466. Nov. 1950. 41.8 M69
- 4324 SUAREZ NELSON, M. Fiebre aftosa; resultados del tratamiento local con sulfamidas en el ganado lechero. *Vida Agr. [Lima]* 27:551,553. July 1950. 9.8 V66
- 4325 SWETT, W. W., and others. Control of mastitis in the Bureau of Dairy Industry herd by treating the infected quarters with penicillin. *U. S. Bur. Dairy Indus. BDI-Inf-110,4 p.* Oct. 1950. 1.973 D4B34
- L. A. Burkey, C. R. Buckner, P. C. Underwood, C. A. Matthews, and M. H. Fohrman, joint authors.
- 4326 SZUMOWSKI, P., and CHARENTON, J. Action de la caséine iodée sur l'organisme et la sécrétion lactée les génisses à lactation provoquée par oestrogènes de synthèse. *Rec. de Méd. Vét.* 126:479-497. Ref. Aug. 1950. 41.8 R24
- 4327 TAYLOR, J. S. Bang's on the run. *Hoard's Dairyman* 95:685,703. Oct. 10, 1950. 44.8 H65
- 4328 TERRUZZI, F. Diarrhea of calves. (In Italian.) *Agr. Bresciana* 3(39):2. Sept. 27, 1950. 16 Ag89
- 4329 TINDALL, C. Prevent mastitis; this costly disease can be controlled by individual dairymen. *Mo. Ruralist* 91(17):4-5. Sept. 9, 1950. 6 R8891
- 4330 TOBBACK, L. Expérimentation de l'antricyde au Congo Belge. *Trypanosomiasés bovines. Off. Internat. des Epizoot. B.* 34:157-171. May 1950. 41.8 Of2
- 4331 TORRES, A. A. Brucellosis. (In Portuguese.) *Rev. Ceres* 8:278-281. Jan./June 1950. 9.2 C332
- 4332 TRICKY is the word for trichomoniasis. *Aberdeen-Angus J.* 32(3):51,107. Oct. 1950. 43.8 Ab3
- 4333 ULLMANN, E. Der Kampf gegen die rindertuberkulose. *Schweiz. Zentbl. f. Milchwirt.* 39:208. Sept. 22, 1950. 44.8 Sch93
- 4334 VALADAÔ, F. G. General observations on the chief epizootic diseases attacking cattle in the Colony of Mozambique. (In Portuguese.) *Gaz. do Agr.* 2:131-133. (Cont.) June 1950. 24 G25
- 4335 VEIGA, J. S., CHIEFFI, A., and ABREU, J. Live weight in Zebu cattle. (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 4:63-97. Ref. Dec. 1949. 41.8 Sa6
- English summary.
- 4336 VILLEGAS, V. How to tell the age of cattle. *Agr. & Indus. Life* 12(8):13,31. Aug. 1950. 25 Ag8
- 4337 VRIES, L. P. DE. Control of tuberculosis. (In Dutch.) *Stamboeker* 32:118. Sept. 14, 1950. 43.8 V58
- Cattle.
- 4338 WANG, H. Notes on bovine sarcosporidiosis. *J. Parasitol.* 36:416-422. Ref. Oct. 1950. 448.8 J824
- Due to *Sarcocystis* sp.
- 4339 WEBSTER, W. Control of contagious pleuropneumonia in Australia. *Austral. Vet. J.* 26:167-171. July 1950. 41.8 Au72
- Includes discussion.
- 4340 WEISSENRIEDER, F. X. Grundsätzliches zur frage der bekämpfung und der tilgung der rindertuberkulose: beobachtungen und erfahrungen über das oostertagsche bekämpfungsverfahren im Kanton St. Gallen. *Schweiz. Arch. f. Tierheilk.* 92:509-528. Ref. Aug. 1950. 41.8 Sch9
- English summary.
- Method of R. von Oostertag.
- 4341 WILLEMS, R. Aperçu sur la pathogénie de la trichomoniasse bovine. *Off. Internat. des Epizoot. B.* 33:361-374. July/Aug. 1950. 41.8 Of2
- 4342 WILLEMS, R. Rapport sur la standardisation du diagnostic de la brucellose bovine par la séro-agglutination. *Off. Internat. des Epizoot. B.* 34:248-259. May 1950. 41.8 Of2
- 4343 WILLENBERG, S. Erfahrungen aus der praxis der fremdkörper-operation. *Berlin u. Münch. Tierärztl. Wchnschr.* 1950:137-138. July 1950. 41.8 B45
- In cattle.
- 4344 WILSON, J. G. Trichomoniasis [bovine] en Grande-Bretagne. *Off. Internat. des Epizoot. B.* 33:352-358. July/Aug. 1950. 41.8 Of2
- 4345 WILSON, S. G. An experimental study of East Coast fever in Uganda. I-II. *Parasitology* 40:195-214. Ref. Oct. 1950. 448.8 P21
- I. A study of the type of East Coast fever reactions produced when the number of infected ticks is controlled, p. 195-209; II. The durability of immunity in East Coast fever, p. 210-214.
- Experiments with calves infected with *Theileria parva*, transmitted by *Rhipicephalus appendiculatus*.
- 4346 WILSON, W. R., and MCDIARMID, A. The occurrence of *Vibrio foetus* in aborted material derived from cows inoculated with S. 19 Br. abortus vaccine. *Vet. Rec.* 62:589-591. Ref. Oct. 7, 1950. 41.8 V641
- 4347 WOODS, G. T., and others. An observation on bovine hemoglobinuria. *Vet. Med.* 45:455-456. Nov. 1950. 41.8 M69
- R. K. Shideler, H. F. Myers, and H. E. Rhoades, joint authors.
- 4348 WRIGHT, N. The digestive system of cattle (structure; function; diseases). *Canad. Cattlemen* 13(9):4-5,48-49. Sept. 1950. 49 C16
- 4349 WYŻYŃSKI, J. Treatment of bronchopneumonia in calves with sulphonamides. (In Polish.) *Med. Weter.* 6:357-358. June 1950. 41.8 M463
- 4350 YOUNG, E. C. Fighting mastitis in Tennessee. *Kraftsman, Prod. Ed.* 8(5):4-5. Sept./Oct. 1950. 44.8 K85
- 4351 ZAVAGLI, V. La diffusione di la trichomoniasse bovine en Italie et les dommages causés à l'économie zootechnique. *Off. Internat. des Epizoot. B.* 33:431-437. July/Aug. 1950. 41.8 Of2
- Includes discussion.

#### Miscellaneous

- 4352 ANDRESEN, N. Gewinnung von qualitätsmilch unter besonderer berücksichtigung einer sachgemässen melkarbeit. *Molk.-Ztg. [Hildesheim]* 4(sup.:Unser Milchvieh Ausg. A 2(8):3-4.) (Cont.) Aug. 3, 1950. 44.8 M735
- 4353 ANGELL, G. N. Stockman's dream on the coast. *Wash. Farmer* 75:675. Sept. 21, 1950. 6 R151
- Management of a beef cattle farm in Washington.
- 4354 BARLOW, F. S. Classification—a valuable breed project. *Guernsey Breeders' J. [Peterborough]* 80:653-655. Oct. 15, 1950. 43.8 G93
- 4355 BEGUCHEV, A. P. Practices of leaders in calf raising during the grazing period. (In Russian.) *Sotsialist. Zhivotnovod.* 12(5):78-80. May 1950. 49 So71
- 4356 BERGE, S. Yield and age. (In Swedish.) *Ladugården* 1950:240-243. Aug. 1950. 44.8 L12
- Milk production.
- 4357 BOOTSMAN, R. J. The Friesian Agricultural Society on a trip to England. II. Impressions of cattle farms. (In Dutch.) *Friesch Landbbl.* 47:575. Sept. 22, 1950. 12 F91
- 4358 BUDE, E. Fragen der milcherzeugung. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1071. Aug. 10, 1950. 18 L2346
- 4359 BURNS, D. J., and BEAL, G. M. Farm practices affecting seasonal milk production in the Baltimore milkshed. *Md. Agr. Expt. Sta. B.* A-58, 16 p. Oct. 1950. 100 M368
- 4360 CAROLIS, V. DE. Livestock farm reclamation and improvement of dairy cattle. (In Italian.) *Glor. di Agr.* 60:251-252. Aug. 6, 1950. 16 It1G
- Italy.
- 4361 CHIEFFI, A. How to raise cattle for packing plants. (In Portuguese.) *Lav. Arroz.* 4(43):39-40. July 1950. 59.8 L39
- Brazil.
- 4362 CONGRÈS NATIONAL DE ZOOTECHNIE BOVINE, 2, BRUSSELS, 1949. [Actes.] Brasschaat, 1950? 2 v 43.9 C767
- Contents: v. 1, Rapports préliminaires et rapports généraux; v. 2, Procès-verbaux de séances et conclusion.
- 4363 COPELAND, L. A century-old question—"how much does she give?" *Hoard's Dairyman* 95:879, 706. Oct. 10, 1950. 44.8 H65
- Testing for milk and fat production.
- 4364 DODD, F. H., FOOT, A. S., and HENRIQUES, E. Experiments on milking technique. 5-6. *J. Dairy Res.* 16:301-309. Dec. 1949. 44.8 J823
- 4365 DOMINGUES, O., and FARIA, E. Correlation between longevity and milk production. (In Portuguese.) *Seleç. Agr.* 5(52):13-15. Aug. 1950. 9.2 Se4



4366 DOORME, H. Organization, judging, and competitions in the cattle industry. (In Flemish.) Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén. 2(1): 275-294. 1949. 43.9 C767

French summary.

4367 DRAKE, E. M. Kiwanis provides materials—Future Farmers the workmanship. Agr. Leaders' Digest 31(9):22. Oct.1950. 275.28 Am3

Founding of a dairy calf cooperative.

4368 EHRLICH, C. Rechtzeitige gesundheitliche massnahmen vor der aufstallung. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1076-1077. Aug.10,1950. 18 L2346

Cattle.

4369 FERNANDEZ FERRE, R. Historia del ganado bovino menorquin. Agros [Lisboa] 1(3):11-12. (To be cont.) Mar.1950. 58.8 Ag87

4370 FEUERBORN, E. Paying thoughts on D. H. I. A testing. Skagit Co-op Dairyman 27(7):5. Mar.1950. 280.28 Sk1

4371 GARNER, F. H. Cattle production in East Anglia—past, present and future. Brit. Soc. Anim. Prod. Proc. (1949)12:40-53. 1950. 49.9 B772

Includes discussion.

4372 GIULIANI, R. The acclimatization of animals and its technique. (In Italian.) Riv. di Zootec. 23:213-220. July 1950. 49 R52

Cattle.

4373 GROVES, D. E. Triplet calves step up cattle research. Ohio Farmer 206(5):38-39. Sept.2,1950. 6 Oh3

4374 HALLÉ, M. Votre programme. Digeste de l'Éleveur 4(8,i.e.9):25,28. May 1950. 49 D56

Cattle.

4375 HEGHE, VAN. Zoological data. (In Flemish.) Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén. 2(1):117-124. 1949. 43.9 C767

French summary.

Dairy cattle and milk production.

4376 HESSELTINE, W. R., and BUSCHNER, F. A. Time to modernize your milking! Conn. Agr. Col. Ext. Folder 41,8 p. July 1950. 275.29 C76Ex

4377 IOWA STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. DAIRY HUSBANDRY SECT. Iowa dairy herd improvement associations; annual summary, 1949/50. Iowa State Col. Agr. Ext. D. H. 214, 36 p. 1950. 275.29 Io91

4378 JENNI, E. Die fleischproduktion der schweizerischen rinderrassen. Schweiz. Landwirt. Monatsh. 1950:269-286. (To be cont.) Aug.20,1950. 17 Sch93

4379 KELLEY, R. B. Climates & cattle; Pakistan a potential cattle stud farm of the world. Karachi Com. 3(12):5. Feb.18,1950. 280.8 K14

4380 KELLY, P. L. Safety first for cattle, too. Hoard's Dairyman 95:651,654-655. Sept.25,1950. 44.8 H65

Care.

4381 KINGET, R. La production laitière. Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén. 2(1):41-57. 1949. 43.9 C767

Includes statistics.

4382 KISEL'KOV, S. Vyrashchivanie teliat [Raising calves]. Simferopol', Krymizdat, 1950. 63 p. 43 K64

4383 KNOOP, C. E., and MONROE, C. F. Influence of pre-milking preparations of cows' udders upon the let-down of milk. J. Dairy Sci. 33:623-632. Ref. Sept.1950. 44.8 J822

4384 KRAUSS, W. E. Dairying in Sweden much like that in Ohio. Ohio Farmer 206(5):34-35. Sept.2,1950. 6 Oh3

4385 LACOURCIÈRE, H. En tatouant les veaux! Digeste de l'Éleveur 4(10,i.e.11):25-27. July 1950. 49 D56

4386 LEDERLE LABORATORIES, NEW YORK. Cattle husbandry. New York, Lederle Lab. Div., Amer. Cyanamid Co., 1950. 104 p. Ref. 43 L495

4387 MCREYNOLDS, E. L. This is her life; simple wall chart gives the detailed history of every cow in the herd from her birth to disposal. Amer. Hereford J. 41(11):142. Oct.1,1950. 43.8 Am32

4388 MALAKHOV, I. P. Hero of Socialist Labor, herdsman N. I. Reus. (In Russian.) Sotsialist. Zhivotno-vo. 12(5):43-46. May 1950. 49 So71

His method of raising cattle on pastures in Stavropol Territory.

4389 MAPES, J. M. How's your cowman's IQ? West. Livestock J. 28(54):37,70,72. Sept.15,1950. 6 F2278

4390 MASHKINA, A. F. Milk production of cows on collective farms in Moscow Region. (In Russian.) Sotsialist. Zhivotnovod. 12(5):69-72. May 1950. 49 So71

4391 MAYER, M. Sinn und zweck der milchleitsungsprüfungen. Allgäuer Bauernbl. 18:548. Sept.14,1950. 18 AL53

4392 MUSGRAVE, A. L. Begin judging at head. Austral. Dairy Rev. 18(9):13-14. Sept.1,1950. 44.8 Au73

Dairy cattle.

4393 NORTH CAROLINA UNIVERSITY. STATE COLLEGE OF AGRICULTURE AND ENGINEERING. EXTENSION SERV. D.H.I.A. cow testing. N. C. Agr. Col. Ext. Folder 81,6 p. Sept.1950. 275.29 N811Ex

4394 PARVIN, F. W. A cow-and-calf plan for Florida. Fla. Agr. Col. Ext. C. 95,6 p.-folder. July 1950. 275.29 F66C

4395 PEGG, S. E. Report on grade herd recording. Queensland Agr. J. 71:28-32. July 1950. 23 Q33

Dairy cattle.

4396 PETERSEN, W. E. Facts on cows and milk. Austral. Milk & Dairy Prod. J. 17(7/8):7-8. July/Aug. 1950. 44.8 Au72

Milking technique.

4397 POLO GOMEZ, G. Reportaje zootécnico. B. de Zootecnia 6:207-210. June 1,1950. 41.9 So16

Care of fighting bulls.

4398 POTAPOV, A. I. Intensive raising of calves. (In Russian.) Sotsialist. Zhivotn. 12(4):73-75. Apr.1950. 49 So71

4399 ROZZI, U. The "management" of cattle. (In Italian.) Avvenire Agr. 58:185-187. Aug.1950. 16 Av9

Care.

4400 ST-PIERRE, A. Qui fera classifer son troupeau en 1950? Digeste de l'Éleveur 4(8,i.e.9):16. May 1950. 49 D56

Cattle.

4401 SANDERS, H. G. Decline in milk yield from the East to the West. Brit. Soc. Anim. Prod. Proc. (1949) 12:5-16. 1950. 49.9 B772

Includes discussion.

England.

4402 SCHAUS, R. Profit with 10 cows. West. Dairy J. 6(12):12,34-35. Oct.1,1950. 44.8 W524

Cattle care.

4403 SCOTT-WATSON, SIR J. A., and DALLING, T. Pre-calving milking—some possible risks. Brit. Farmer 27:8. Sept.30,1950. 281.8 B77

4404 SERGEEV, N. Lesson of a Riazan milkmaid [in milk production]. (In Russian.) Molod. Kolkhoz. 17(6):13-14. June 1950. 110 M73

4405 SERRI, A. Practical courses for the instruction of milkers. (In Italian.) Agr. Moden. 6(14):5. Sept.15/30, 1950. 16 Ag8255

Also in Avvenire Agr. 58:193-195. Aug.1950. 16 Av9; Cam. di Com. Indus. ed Agr. di Modena. B. Mens. 56:681-683. Aug.1950. 280.9 M722

4406 STALLCUP, O. T. Successful dairying in Arkansas. Ark. Farmer 52(10):8. Oct.1950. 6 Ar42

4407 TESCH, A. Die richtige kälberaufzucht. Landwirtschaft 1950:233-234. Aug.1950. 19 L235

4408 TEXAS AGRICULTURAL EXPERIMENT STATION. DEPT. OF ANIMAL HUSBANDRY. Beef cattle investigations in Texas, 1888-1950. Tex. Agr. Expt. Sta. B. 724,79 p. Sept.1950. 100 T31S

4409 U. S. EXTENSION SERV. Dairy Month and the cow, by R. K. Bliss. Washington? 1950. 4 p. 1.913 A2B61

4410 VOLPINI, A. Beef and draft cattle of central Italy. (In Italian.) Allevatore 6(31):7. Aug.6,1950. 49 AL55

## DOGS AND CATS

### Breeds and Breeding

4411 BAECHLER, L. Le Léonberg. Chiens et Vénérle (n.s.)1950(7,sup.):4-5. June/July 1950. 48.8 C43

4412 BETTEN, H. L. Old fashioned religion. Amer. Field 154:175-176. Aug.19,1950. 410 Am3

Irish Setters.

4413 BROWN, J. P. The all-purpose hound. Fur-Fish-Game 90(10):34-35. Oct.1950. 410 F962

Beagles.



- 4414 DEMPSEY, D. The complete Toy Manchester Terrier. Silver Spring, Md., Denlinger's, 1950. 112 p. 48 D39
- 4415 FARLEY, T. Dogs—big business. All-Pets Mag. 21(9):57. (Cont.) Sept. 1950. 48.8 AL5
- 4416 FRIEDLAND, M. Der Dobermann. Thür. Kleintierzüchter 4:219. Aug. 10, 1950. 49 T42
- 4417 HUMANN, J. Les chiens de chasse à Paris. Vie à la Campagne 39:263. Aug. 1950. 80 V67
- 4418 JOHNSON, B. All about Bull Terriers; how to start in the breed. Breeder Dog J. 1950:8-9. Aug. 1950. 48.8 B742
- 4419 JONES, A. F. The breeds in brief. No. 102-104. Amer. Kennel Gaz. 67(9):27-28, 292-294, 296; (10):29-30, 280-282; (11):27-28, 427-430. Ref. Sept.-Nov. 1950. 48.8 Am3
- 102, Black and Tan Coonhound; 103, Kuvasz; 104, Alaskan Malamute.
- 4420 LEWIS, T. H. Got any pink puppies? Wagging Tail 5(4):2-3. Sept. 1950. 48.8 W12
- Mendelian inheritance in dogs.
- 4421 LIENHART, R. Hérité de la couleur de la robe chez le chien. Acclimatation 77:206, 211. (Cont.) Sept. 23-30, 1950. 14 Ac2
- 4422 MOFFIT, E. B. The Cocker Spaniel, companion, shooting dog and show dog: complete information on history, development, characteristics, standards for field trial and bench with some practical advice on training, raising and handling. Rev. and added to by R. C. Craig. New York, Orange Judd Pub. Co., 1950. 352 p. 48 M72C
- 4423 MOORHOUSE, S. Collie origins. Field 196: 379. Sept. 2, 1950. 10 F45
- 4424 NATIONAL GERMAN SHORTHAIRED POINTER DOG CLUB. German Shorthaired Pointer: brief history of the breed. Breeder Dog J. 1950:1-2. Aug. 1950. 48.8 B742
- 4425 NOURRY, O. L'Irish-Water Spaniel. Chiens et Vénérerie (n.s.) 1950(7, sup.):9. (To be cont.) June/July 1950. 48.8 C43
- 4426 ORMISTON, F. I. The case for the specialty clubs; breed club officer contends there is no commercial aim in standard making. Amer. Kennel Gaz. 67(10):20-23, 268-270. Oct. 1950. 48.8 Am3
- 4427 SCHWEIZERISCHEN KINOLOGISCHEN GESELLSCHAFT. Schweizerisches hunde-stammbuch. Livre des origines suisse, v. 49, 1949. Bern, 1949. 546 p. 48.9 Sch9
- 4428 SCOTT, J. P. Science and your Cocker; effect of early experience on shyness and confidence. Wagging Tail 5(4):4-9. Sept. 1950. 48.8 W12
- 4429 SMITH, A. C. Pointers and Setters; breed type can be preserved without impairing a dog's usefulness. Field 196:509. Sept. 23, 1950. 10 F45
- 4430 SMITH, A. C. Qualities of Bullmastiffs. Field 196:423. Sept. 9, 1950. 10 F45
- 4431 STETSON, J. Gun dogs; good breeding practice. Field & Stream [New York] 55(6):130, 132-133. Oct. 1950. 410 F45
- 4432 VERSTEEG, H. Le terrier irlandais ou l'Irish Terrier. Cour. Hort. 12:456. Aug. 1950. 80 C834
- 4433 WELSH HOUND ASSOCIATION. Kennel stud book. v. 4, sect. 1, for the years 1937-1948. Aberdare, Stephens and George, 1949? 47 p. 48.9 W46K
- Feeds and Feeding
- 4434 JAMES, W. T., and MCCAY, C. M. A study of food intake, activity, and digestive efficiency in different type dogs. Amer. J. Vet. Res. 11:412-413. Oct. 1950. 41.8 Am3A
- Veterinary Medicine
- 4435 AHMED, I. A case of snake bite (?) in a dog. Indian Vet. J. 27:132. Sept. 1950. 41.8 In2
- 4436 AMERICAN VETERINARY MEDICAL ASSOCIATION. Things dog owners should know about 'hard pad' disease. Dog World [Chicago] 35(11):22. Nov. 1950. 48.8 D672
- 4437 ARNOLD, A., and GOBLE, F. C. Studies with dogs fed flour treated with ammonium persulfate. Cereal Chem. 27:375-382. Ref. Sept. 1950. 59.8 C33
- Research in nutrition in relation to running fits.
- 4438 BARONTI, A. C. Congenital esophageal dilatation in a Cocker puppy. No. Amer. Vet. 31:666-667. Oct. 1950. 41.8 N812
- 4439 CELLA, F. Tumors of the bony skeleton in the dog. (Chondro-osteoblastic sarcoma of the mandible and Ewing's sarcoma of the ribs.). (In Italian.) Arch. Vet. Ital. 1:27-33. Mar. 31, 1950. 41.8 Ar25
- English summary.
- 4440 COMBEN, N. A further case of deafness following coal gas poisoning in a dog. Vet. Rec. 62:566. Sept. 23, 1950. 41.8 V641
- 4441 COMBEN, N. Some recent advances in the general anaesthesia of the dog. I-II. Brit. Vet. J. 106: 348-358, 391-408. Sept.-Oct. 1950. 41.8 V643
- 4442 COSTA FILHO, P. Rabies. (In Portuguese.) Agr. e Pecuária 21(324):22-24. July 1950. 9.2 Ag89
- 4443 CROSFIELD, P. Thiouracil in the treatment of hyper-thyroidism in a Dachshund bitch. Vet. Rec. 62:545. Sept. 16, 1950. 41.8 V641
- 4444 DAVIS, C. L., and ANDERSON, W. A. The rapid diagnosis of contagious canine hepatitis by touch preparation of fresh liver tissue. Vet. Med. 45:435-437. Nov. 1950. 41.8 M69
- 4445 DÖZSA, L., and PAAL, S. Behandlung der bei scheinträchtigkeit auftretenden und der normal erfolgenden, unerwünschten Laktation bei hunden mit syntestrin. Schweiz. Arch. f. Tierheilk. 92:581-589. Ref. Sept. 1950. 41.8 Sch9
- English summary.
- 4446 FITTIPALDI, S. A., and DECAMP, D. Use of physostigmine and atropine in neuromuscular dysfunction in small animals. Vet. Med. 45:438-439, 450. Nov. 1950. 41.8 M69
- Dogs.
- 4447 GIOLITTI, G. Researches on foot-and-mouth disease. I. The experimental reproduction of the "cor tibratum" in the dog. (In Italian.) Arch. Vet. Ital. 1:253-281. Ref. Sept. 30, 1950. 41.8 Ar25
- English summary.
- 4448 GROCOTT, R. G. A case of canine toxoplasmosis from the Canal Zone. Amer. J. Trop. Med. 30:669-675. Ref. Sept. 1950. 448.8 Am33
- 4449 GUIDA, V. O. Studies on canine leptospirosis. IV. Researches on the antigenic characters of a strain isolated from dog. (In Portuguese.) Inst. Biol. São Paulo Arg. (1949/50) 19:149-152. 1950. 442.9 Sa6
- English summary.
- 4450 GUILHON, J. Un nouveau cas de leishmaniose canine autochtone dans la région parisienne. Acad. Vét. de France. B. 23:361-362. July 1950. 41.9 R24
- 4451 HARD, W. L., and PETERSON, A. C. The distribution of choline esterase in nerve tissue of the dog. Anat. Rec. 108:57-69. Sept. 1950. 447.8 An1
- 4452 HOERLEIN, B. F., and GREENE, J. E. The bromsulphalein liver function test as an aid in the diagnosis of canine hepatosis. No. Amer. Vet. 31:662-665. Oct. 1950. 41.8 N812
- 4453 JENNINGS, S. Frictional acanthosis in Dachshunds. Vet. Rec. 62:609-611. Oct. 21, 1950. 41.8 V641
- Dermatitis in obese animals caused by friction between legs and chest.
- 4454 JENNY, J. Kuentscher's medullary nailing in femur fractures of the dog. Amer. Vet. Med. Assoc. J. 117:381-387. Ref. Nov. 1950. 41.8 Am3
- 4455 JOSHUA, J. O. Hepatitis contagiosa canis (Rubarth). Vet. Rec. 62:566. Sept. 23, 1950. 41.8 V641
- 4456 JOSHUA, J. O. Some clinical observations on leptospirosis in suburban dogs. Brit. Vet. J. 106:321-347. Ref. Sept. 1950. 41.8 V643
- 4457 JOURDAN, F., and COLLET, A. Effets comparés de l'inhalation de fumée de tabac par les voies respiratoires supérieures et par les poumons chez le chien. Soc. de Biol. Compt. Rend. 144:861-863. June 1950. 442.9 P21
- 4458 JOURDAN, R. H. Pathogenesis of canine glaucoma. Amer. Vet. Med. Assoc. J. 117:419-422. Nov. 1950. 41.8 Am3
- 4459 KEEP, J. M. Congenital diaphragmatic hernia in a cat. Austral. Vet. J. 26:193-196. Aug. 1950. 41.8 Au72
- 4460 LAMONT, H. G., and GORDON, W. A. M. Aujeszky's disease—a sporadic case in a Fox Terrier bitch. Vet. Rec. 62:596. Oct. 7, 1950. 41.8 V641



- 4461 LAWTON, G. J., JR. Extra-uterine puppies. No. Amer. Vet. 31:667-668. Oct.1950. 41.8 N812
- 4462 LEWIS, G. An outbreak of infectious canine hepatitis complicated with canine distemper. No. Amer. Vet. 31:743-744. Nov.1950. 41.8 N812
- 4463 MACRI, G. On a blastoma occurring in a fracture focus in a dog. (In Italian.) Zootec. e Vet. 5:596-604 July 1950. 41.8 Z7  
English summary.
- 4464 MIGLIANO, M. F., and STOPIGLIA, A. V. Actinomycosis of the mandible in a dog. (In Portuguese.) São Paulo U. Facul. de Med. Vet. Rev. 4:161-165. Dec. 1949. 41.8 Sa6  
English summary.
- 4465 MIKA, M. Penicillin ointment in the treatment of open ulcers of the cornea of dogs. (In Polish.) Med. Weter. 6:164-165. Mar.1950. 41.8 M463
- 4466 NEUHAUS-LENNEP. Gedanken zur hundestaupe. Deut. Tierärztl. Wchnsch. 57:269-273. Sept.1, 1950. 41.8 D482
- 4467 NEWMAN, J. P. Studies of canine leptospirosis. I. Evaluation of laboratory diagnostic procedures. II. Serologic determination of the incidence of latent infection in the Lansing, Michigan area. Amer. J. Vet. Res. 11:405-411. Ref. Oct.1950. 41.8 Am3A
- 4468 NYE, S. S., CRAWSHAW, H. A., and NICOL, J. Toxic reactions following the use of phenamidine (May & Baker) in the dog. Vet. Rec. 62:533-534. Sept.9,1950. 41.8 V641
- 4469 PARRY, H. B. Viral hepatitis of dogs (Rubarth's disease). I. Clinical and pathological observations on a spontaneous epidemic. Vet. Rec. 62:559-565. Ref. Sept.23,1950. 41.8 V641
- 4470 PAY, T. W. F. Infectious canine hepatitis (Hepatitis contagiosa canis (Rubarth)). Vet. Rec. 62:551-558. Ref. Sept.23,1950. 41.8 V641  
Includes discussion.
- 4471 PIWOWARCZYK, S. Diagnosis of tuberculosis in dogs by cultivation on egg-media and simultaneous type-differentiation of Mycobacterium tuberculosis. (In Polish.) Med. Weter. 6:216-218. Ref. Apr.1950. 41.8 M463  
English summary.
- 4472 RICKETTS, V. L. Kennel medicine chest. All-Pets Mag. 21(9):54. (Cont.) Sept.1950. 48.8 AL5
- 4473 ROOTS, and VIETZE. Ein beitrage zur technik und bedeutung der untersuchung von hundebutproben auf leptospirosen. Deut. Tierärztl. Wchnsch. 57:237-238. Aug.1,1950. 41.8 D482
- 4474 ROSE, H. T. The use of bacitracin in small animal medicine. Amer. Vet. Med. Assoc. J. 117:306-310. Ref. Oct.1950. 41.8 Am3  
Treating infections in dogs.
- 4475 ROTH, H. Nouvelles expériences sur la trichinose avec considérations spéciales sur son existence dans les régions arctiques. Off. Internat. des Epizoot. B. 34:197-220. Ref. May 1950. 41.8 Of2  
In dogs and wild animals in Greenland.
- 4476 SCHULZE, W. Geburtshilflich-gynäkologische beobachtungen bei hunden. Monatsh. f. Vetmed. 5:239-247. Ref. Sept.1950. 41.8 M742  
Surgical procedures.
- 4477 SERVELLE, M., SIMONNET, H., and LEBARS, H. Stase veineuse et croissance osseuse. Acad. Vét. de France. B. 23:355-359. July 1950. 41.9 R24  
In man and dogs.
- 4478 SILVA, A. G. DA. Contribution to the knowledge of the normal dog eye "fundus". (In Portuguese.) São Paulo U. Facul. de Med. Vet. Rev. 4:197-219. Ref. Dec.1949. 41.8 Sa6  
English summary.
- 4479 SOLIS, J. A., and ARANEZ, J. B. Dystocia in a bitch - a case report. Amer. Vet. Med. Assoc. J. 117:300-301. Oct.1950. 41.8 Am3
- 4480 SORIA, G. E. Enfermedades del perro: sarna sarcóptica. Chacra 20(238):90-91. Sept.1950. 9 C34
- 4481 STEEL, J. D., and WHITEM, J. H. Canine distemper and distemper-like diseases. Austral. Vet. J. 26:197-212. Ref. Aug.1950. 41.8 Au72  
Similar syndromes due to viruses of distemper, infectious hepatitis, and hard-pad disease.
- 4482 STEINBACH, F. G. Feeding, a factor in eclampsia of the dog. Pa. U. Sch. Vet. Med., Vet. Ext. Q. 120:24-25. Oct.21,1950. 41.9 P386
- 4483 STERN, A. I. A clinical report on distemper immunization. No. Amer. Vet. 31:745-746. Nov.1950. 41.8 N812
- 4484 STRZELECKI, B. Observations made on dogs vaccinated against rabies. (In Polish.) Med. Weter. 6:359. June 1950. 41.8 M463
- 4485 SULMAN, F. G. Ocular leptospirosis in a dog. (In Hebrew.) Refuah Vet. 7:16-17. Apr.1950. 41.8 R25  
English summary, p. 34-33.
- 4486 SZUPERSKI, T. A case of sarcoma of the small intestine in a dog. (In Polish.) Med. Weter. 6:300-301. May 1950. 41.8 M463
- 4487 TCHENG, K. T. Étude histologique de l'innervation cardiaque chez le chien. Soc. de Biol. Compt. Rend. 144:882-883. July 1950. 442.9 P21
- 4488 ULLRICH, K. Gedanken zur hundestaupe. Deut. Tierärztl. Wchnsch. 57:291-292. Sept.15,1950. 41.8 D482
- 4489 WITZIGMANN, L. Allgemeine erfahrungen mit der hartballenkrankheit beim hund. Deut. Tierärztl. Wchnsch. 57:223-224. July 15,1950. 41.8 D482
- 4490 ZADURA, J. A case of ligature from sausage case on the tongue of a cat. (In Polish.) Med. Weter. 6:165. Mar.1950. 41.8 M463

## Miscellaneous

- 4491 BROWN, W. F. Cómo educar perros de caza. Nuestros Amigos 7(72):24-25. May 1950. 48.8 N88
- 4492 CLANCY, L. Tyro dog-raising. Wagging Tail 5(4):10-12. Sept.1950. 48.8 W12
- 4493 HECQUET, A. Propos d'un vieil éleveur sur le pelage. Chiens et Vénérerie (n.s.)1950(7,sup.):3. June/July 1950. 48.8 C43
- 4494 HUBBARD, C. L. B. An introduction to the literature of British dogs; five centuries of illustrated dog books. Ponterwyd,Wales,1949. 56 p. 241.73 H862
- 4495 KING, B. How to graduate from the novice class. Cocker Spaniel Visitor 12(9):7-8. Sept.1950. 48.8 C64  
Care of dogs and fitting for show.
- 4496 KLEIN, H. K. E. Working dogs in Siam. Vet. Assoc. Thailand. J. 2(3):39-46. July 1950. 41.9 Si12  
In English and Siamese.
- 4497 MEINERS. Der charakter unserer hunde. Kleintierzüchter Tierbörse 4(37):4. July 29,1950. 49 K672  
Germany.
- 4498 MELVIN, A. "Can my dog be trained"? A few simple tests will tell you if it's worthwhile. Amer. Kennel Gaz. 67(10):16-17,32. Oct.1950. 48.8 Am3
- 4499 MITCHELL, L. M. A dog's part in our big problem; children who show dogs have little time for mischief. Amer. Kennel Gaz. 67(9):16-19,30. Sept.1950. 48.8 Am3
- 4500 MONTEIRO, M. How to train a dog to come when called. (In Portuguese.) Fauna [São Paulo] 9(7):17-20. July 1950. 410 F272
- 4501 NEYLON, T. J. Let us examine the life of a dog. Our Dumb Anim. 83(10):5. Oct.1950. 48.8 Ou7
- 4502 RUTKAY, V. Don't let the fun in showing dogs fade; it'll remain, too, if you never feel that you "must" win. Amer. Kennel Gaz. 67(9):11,280-281. Sept. 1950. 48.8 Am3
- 4503 SALVADOR, A. R. N. The dog. (In Portuguese.) Vida Agr. [Lisboa] 13(78):5-6. July/Aug.1950. 15.5 V66
- 4504 SCHOEN, L. M. No longer a market place; in past, "on spot" sales excused late hours of shows. Amer. Kennel Gaz. 67(9):20-21,283-284. Sept.1950. 48.8 Am3
- 4505 SIMPSON, E. M. Household guards; what a well-trained dog should be able to do. Field 196:414. Sept.9,1950. 10 F45
- 4506 SNYDER, R. D. Love thy neighbor—and dogs; if not, you may find you live in a glass house. Amer. Kennel Gaz. 67(10):18-19,271-273. Oct.1950. 48.8 Am3
- 4507 STETSON, J. You can't keep them all. Field & Stream [New York] 55(7):122-125. Nov.1950. 410 F45  
Culling a litter of puppies.



## FUR ANIMALS - PEN RAISED

Breeds and Breeding

- 4508 BERRY, G. W. Bounty Blumink. Fur-Fish-Game 90(10):37-39. Oct.1950. 410 F962
- 4509 ÖSTERGREN, S. Mutation mink. (In Swedish.) Våra Pälsdjur 9:220-221. Aug.15,1950. 410 V42
- 4510 WALTER, H. H. Einige Erfahrungen aus der Nutriazucht der letzten Jahre. Österr. Kleintierzüchter 1950:811-812. Aug.1950. 49 Os7

Feeds and Feeding

- 4511 GODOY, J. C. Alimentación de nutrias en criadero. Argentina. Min. de Agr. Almanaque 25:99-104. 1950. 9 Ag874
- 4512 KING, K. W. Vitamins; don't abuse them. Natl. Chinchilla Breeder 6(8):10-11. Oct.1950. 412.628 N21
- 4513 RIMESLATTEN, H. Experiments in feeding bigger Silver fox, Blue fox and mink cubs once and twice each day. (In Norwegian.) Norsk Pelsdyrbt. 24:298-305. Sept.20,1950. 412.628 N812
- 4514 ROBERTS, W. L. Diethylstilbestrol and chicken by-products. Amer. Natl. Fur & Mkt. J. 29(3):7, 27,29-30. Oct.1950. 412.629 Am3M
- Effect on fertility of feeding minks with poultry waste containing "caponette" material.
- Similar title in Amer. Fur Breeder 23(4):17-18,50-52. Oct.1950. 410 Am33; Black Fox Mag. & Mod. Mink Breeder 34(6):22,31-33,35. Oct.1950. 410 B56

Veterinary Medicine

- 4515 GORHAM, J. R. Reviewing botulism in mink. Fur J. 16(6):10. July/Aug.1950. 412.628 F969
- 4516 HARTSOUGH, G. R. Boils in mink. Amer. Fur Breeder 23(4):15,54,56. Oct.1950. 410 Am33
- 4517 LIUBASHENKO, S. I., NOVIKOVA, L. S., and SHCHERBAKOVA, I. G. Infectious jaundice in Blue Polar and Silver-Black foxes (leptospirosis icterhaemorrhagica). (In Russian.) Karakulevodstvo i Zverovodstvo 3(2):64-67. Mar./Apr.1950. 49 K14
- 4518 OLSEN, O. W. Natural infection of chinchillas with the mouse tapeworm, Hymenolepis nana var. fraterna. Vet. Med. 45:440-442. Nov.1950. 41.8 M69
- Tenebrio molitor may sometimes be involved in cycle.
- 4519 SOMPOLINSKY, D. Etude d'une souche de Plectridium [i.e. Clostridium] carnis (Klein) Prévot isolée d'une enzootie canine du vison. Inst. Pasteur Ann. 79:204-205. Aug.1950. 448.3 An75
- 4520 STRYSZAK, A. Epizootic encephalitis of Silver foxes in Poland. (In Polish.) Med. Weter. 6:147-149. Ref. Mar.1950. 41.8 M463
- English summary.
- 4521 UGORSKI, L. Infection with Bact. Gärtner [Salmonella enteritidis] in Silver foxes. (In Polish.) Med. Weter. 6:218-219. Apr.1950. 41.8 M463

Miscellaneous

- 4522 GIORGINI, G. Animal novelties in Arezzo: first raising of nutria. (In Italian.) Agr. Tosc. 5:365-366. Oct.1950. 16 Ag827
- 4523 HOPE, F. L. Experimenting with marten. Fur J. 16(6):12. July/Aug.1950. 412.628 F969
- 4524 SCHMOKER, E. A. Mink talk by a veterinarian. Fur J. 16(7):5. (To be cont.) Sept./Oct.1950. 412.628 F969
- Care.
- 4525 WALLENTIN, M. Pelztierzucht — auch für den Siedler möglich! Gart.-Z. Illus Flora 73:97. Aug. 1950. 80 G1991
- Coypus.

## HORSES AND MULES

Breeds and Breeding

- 4526 BAUERNFEIND, Z. The Welsh Mountain pony. West. Horseman 15(10):17,37-39. Oct.1950. 42.8 W522
- 4527 BOURDEAU, M. Considérations sur la race Percheronne. Agri-Cher 4(30):2. Oct.1950. 14 Ag892
- 4528 BROEKHUYZEN, A. VAN. Prepotency in old stallions. (In Dutch.) Nieuwe Veldbode 16:790-791. Sept.7,1950. 12 V542N

4529 CLYDESDALE HORSE SOCIETY OF GT. BRIT. AND IRELAND. The Clydesdale stud-book, v.72. Perth, 1950. 244 p. 42.9 C62S

4530 COCHRAN, K. The C.T.B.A. [California Thoroughbred Breeders Association]; its history. Thoroughbred Calif. 11:320-321,370-372. (Cont.) Nov. 1950. 42.8 T393

4531 COOPER, P., and TREAT, R. L. Man o' War. New York, Messner, 1950. 230 p. 42 C78

4532 CUBA. MINISTERIO DE DEFENSA NACIONAL. EJERCITO. Registro genealógico de equinos (studbook); raza arabe. Habana, Imprenta del Ejército, 1949. 60 p. 42.9 C89

4533 EDWARDS, G. B. Sons of the fathers. II. West. Livestock J. 28(54):110-111,114-116. Sept.15,1950. 6 F2278

Performance of Arabian horses and trotting ability of their progeny.

4534 ESTES, B. W. Temperament; is there a significant relationship between the temperament of a broodmare and the performance of her offspring? Blood-Horse 60:868-870,907-908,910. Oct.28,1950. 42.8 T392

4535 EVANS, R. B. D. W. Foreign Arabian studs. II. West. Horseman 15(11):26-28,31. Nov.1950. 42.8 W522

4536 FRANCE. MINISTERE DE L'AGRICULTURE. Stud book français. Naissances de produits de Pur Sang et des produits Anglo-Arabs en 1948, v. 27, sup. 2. Paris, Pailhé, 1950. 173 p. 42.9 F843

4537 HAHN-BUTRY, J., and KÖHLER, H. J. Hannover edles warmblut. Hamburg, Siep, 1949. 448 p. 42 H122

4538 DIE HERVORRAGENDE pferdezucht in Weser-Ems. Landwirtsch. Weser-Ems 36:727-729. Sept.6,1950. 18 L2345

4539 IL'M'YARV, M. M. New Tor'iskafā breed of horses [in Estonian SSR]. (In Russian.) Konevodstvo 20(6):5-12. June 1950. 42.8 K832

4540 ITALY. MINISTERO DELL'AGRICOLTURA E DELLE FORESTE. DEPOSITO STALLONI DI REGGIO EMILIA. Elenco generale delle stazioni di monta con gli stalloni a ciascuna assegnati [General list of breeding stations with the stallions assigned to each]. 1949. 19 p. 42.9 It1

Horses and asses.

4541 KAMPHUIS, J. B. De Groninger warmbloed-fokkerij [The Groninger hot blooded horse stud farm]. Doetinchem, Misset, 1950. 253 p. 42 K124

4542 KRANTZ, E. B. Closing the U. S. farm. Morgan Horse Mag. 10(5):12. Oct.1950. 42.8 M82

U. S. Department of Agriculture Morgan Horse Farm at Middlebury, Vermont.

4543 KUFUN, G. M. Horse breeding in Crimean Region. (In Russian.) Konevodstvo 20(6):13-15. June 1950. 42.8 K832

4544 KUMMER, VON. Oldenburgs pferdezucht im kampf um die prämiën. Landwirtsch. Weser-Ems 97:702-703. Aug.31,1950. 18 L2345

4545 LINDGREN, E. The Frederiksborg horse; an old Danish breed. Horse World 8(9):54. Sept.1950. 42.8 Io9

4546 MALAVASI, L. Horse breeding. (In Italian.) Agr. Ferrarese 54:117-118. May 31,1950. 16 Ag87

4547 MISHIN, G. M. 55 foals from 54 mares. (In Russian.) Konevodstvo 20(6):32-33. June 1950. 42.8 K832

At Ipatov Agricultural Artel in Stavropol Territory.

4548 MORRIS, G. F. Morgan horse type. West. Horseman 15(11):9-11. Nov.1950. 42.8 W522

4549 NIEUHOFF. Pure blood breeding in Gelderland. (In Dutch.) Nieuwe Veldbode 16:792-793. Sept.7, 1950. 12 V542N

Horses.

4550 ROBIN, M. De l'avenir de l'insémination artificielle dans la production du cheval en France. Acad. Vét. de France. B. 23:349-351. July 1950. 41.9 R24

4551 ROSSI, L. More on the horse breeding industry in the Po Valley. (In Italian.) Riv. di Zootec. 23:236. July 1950. 49 R52

4552 SCHAPS, T. Playing with pedigrees. Thoroughbred Calif. 11:258,278,326,380. Oct.-Nov.1950. 42.8 T393

4553 SHCHETNEV, M. I. Our grievances to some stud-farms. (In Russian.) Konevodstvo 20(6):15-16. June 1950. 42.8 K832

Improvement of horse breeding.



4554 STEWART, F. R. A word about the brood mare. *Nebr. Cattleman* 7:26. Sept. 1950. 43.8 N27 Quarter Horse breeding.

4555 WALL, J. F. A horseman's handbook on practical breeding. Ed. 3, rev. Camden, S. C., Thoroughbred Bloodlines, 1950. 412 p. Ref. 42 W152H

4556 WARDEN, M. L. The American Saddle blood in the Tennessee Walking Horse. *Natl. Horseman* 86(10): 12-14, 76-79. Oct. 1950. 42.8 N21

4557 WOMACK, R. B. Extolling the value and virtues of the Tennessee Walking Horse. *Tenn. Walking Horse* 6(4):17-18. Aug. 1950. 42.8 T25

#### Feeds and Feeding

4558 KARLSEN, G. G. Feeding norm principles for draft horses and evaluation of nutritive value of feeds. (In Russian.) *Konevodstvo* 20(6):17-29. June 1950. 42.8 K832

4559 MORRILL, E. L. Feeding secrets—horse's vitality, appearance depend on right amount of balanced ration. *West. Livestock J.* 28(54):104. Sept. 15, 1950. 6 F2278

4560 NAEVERDAL, A. From a trip to the horse paradise in Sikkil's Valley. (In Norwegian.) *Norsk Landbr.* 16:350-352. Sept. 15, 1950. 11 N8122 Summer pastures.

4561 SCHIEREN, J. Grundlegerender wandel in der fütterung der landwirtschaftlichen arbeitspferde. *Deut. Tierärztl. Wchnschr.* 57:238-241. Aug. 1, 1950. 41.8 D482

#### Veterinary Medicine

4562 ANDREASI, F., and BONOLDI, V. About the colorimetric methods for the determination of inorganic phosphorus in equine blood; applicability and comparative study. (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 4:27-46. Ref. Dec. 1949. 41.8 Sa6 English summary.

4563 ANDREASI, F., and COSTA, A. Normal blood levels of calcium and inorganic phosphorus in Thoroughbred horse. (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 4:47-62. Ref. Dec. 1949. 41.8 Sa6 English summary.

4564 ARRIGHI, R. Quelques cas de surra au Cam-bodge. *Rev. d'Élevage et de Méd. Vét. des Pays Trop.* 3: 135-137. July/Sept. 1949. 41.8 R3262 Horses.

4565 BARDI, S. J. "Mal de caderas" (tripanosomiasis equina). *Argentina. Min. de Agr. Almanaque* 25: 379-380. 1950. 9 Ag874

4566 BEHRENS, H. Die blut-liquor-schranke beim pferd. 2. Der Ca-gehalt des liquors und des blutserums. *Deut. Tierärztl. Wchnschr.* 57:294-295. Sept. 15, 1950. 41.8 D482

4567 BOLLE, F. Follikelkontrolle und unfruchtbarkeit der stuten. *Tierzüchter* 2:433-434. Aug. 20, 1950. 49 T445

4568 CHWALIBÓG, J., and ŻOLNIERCZYK, S. Observations on cardiac diseases of horses used for the production of anti-swine erysipelas serum. (In Polish.) *Med. Weter.* 6:219-220. Ref. Apr. 1950. 41.8 M463

4569 CLOUET, Invagination intestinale et volvulus secondaire chez le cheval. *Rec. de Méd. Vét.* 126:471-474. Aug. 1950. 41.8 R24

4570 CORTICELLI, B. Atrial fibrillation and flutter in the horse. (Bibliographic review and personal observations.). (In Italian.) *Arch. Vet. Ital.* 1:177-196. Ref. June 30, 1950. 41.8 Ar25 English summary.

4571 DIAZ UNGRIA, C. Tratamiento de la ascaridiosis equina. *B. de Zootecnia* 6:211-214. June 1, 1950. 41.9 So16

In an ass.

4572 DIMOCK, W. W. Fertility and infertility of stallions. *Ky. Agr. Expt. Sta. C.* 68, 18 p. Ref. Sept. 1950. 100 K41

4573 DIMOCK, W. W. Incoordination of horses: wobbles. *Ky. Agr. Expt. Sta. B.* 553, 36 p. June 1950. 100 K41

4574 DRURY, A. R., BRYAN, C. S., and HUTTON, J. P. A biochemical and bacteriologic study of mare's milk. *Amer. Vet. Med. Assoc. J.* 117:303-305. Oct. 1950. 41.8 Am3

4575 DURIEUX, J., and DURIEUX, M. Traitement des pneumopathies aiguës du cheval et des bovidés par le digalactoside-P. P'-diamino-diphényl-sulfone. *Rec. de Méd. Vét.* 126:400-406. July 1950. 41.8 R24

4576 DZHILOVIAN, KH. A., and NOSKOV, A. I. Therapy of hard forms of epizootic lymphangitis in horses. (In Russian.) *Veterinariia* 27(7):24-25. July 1950. 41.8 V6426

4577 ERRINGTON, B. J. Pertaining to equines; latest wrinkles in the veterinary and animal science worlds. *Thoroughbred Calif.* 11:324-325, 378. Nov. 1950. 42.8 T393

4578 FONTANELLI, E. Therapeutic action of cyclohexano-carboxylic acid combined with bismuth in oxyuriasis of horses. (In Italian.) *Zooprofilassi* 5:301-304. June 1950. 41.8 Z72

4579 FORTI, R. On the chemical composition of mineral substances contained in normal synovial fluid of horses. (In Italian.) *Zootec. e Vet.* 5:728-729. Sept. 1950. 41.8 Z7

English summary.

4580 FREITAS, M. G., and MARTINS, A. V. Studies on equine habronemiasis. (In Portuguese.) *Rev. Ceres* 8:181-187. July/Dec. 1949. 9.2 C332 English summary.

4581 GIULIANI, R. The diagnosis of pregnancy in the mare. (In Italian.) *Riv. di Zootec.* 23:245-249. (To be cont.) Aug. 1950. 49 R52

4582 GLYNN, L. L. Lameness in front legs. *West. Horseman* 15(10):26, 41-43. Oct. 1950. 42.8 W522

4583 HANSEN, M. F., and others. Studies on the hematology of the Thoroughbred horse. II-III. *Amer. J. Vet. Res.* 11:393-399. Oct. 1950. 41.8 Am3A A. C. Todd, G. W. Kelley, M. Cawein, and W. R. McGee, joint authors.

II, Weanlings, p. 393-396; III, Stallions, p. 397-399.

4584 KURTZE, H. Vergiftung eines pferdes durch anemonen. *Deut. Tierärztl. Wchnschr.* 57:279. Sept. 1, 1950. 41.8 D482

4585 LAPIDUS, S. S. Stomach and intestinal diseases in horses and prophylactic measures in the [Moscow] city horse parks. (In Russian.) *Veterinariia* 27(7): 36-38. July 1950. 41.8 V6426

4586 LEMETAYER, E., and others. Le colostrum et le lait dans leurs rapports avec l'immunité du jeune. *Lait* 30:474-496. (Concl.) Ref. Sept./Oct. 1950. 44.8 L143 L. Nicol, O. Girard, R. Corvazier, and M. Cheyroux, joint authors.

With particular reference to horses.

4587 LOWRY, B. It can be done. *Thoroughbred Calif.* 11:264, 287. Oct. 1950. 42.8 T393

Week-old foal with broken cannon bone nursed back to health.

4588 MARÍN MARTÍNEZ, A. Prevención de la oftalmia periódica o lunática por la riboflavina. *Lérida Ganad.* (ser. 3) 117:136-137. July 1950. 41.8 L56

4589 MATHEWS, F. How to determine the horse's age. *Horse World* 8(9):55. Sept. 1950. 42.8 Io9 Illustrations of teeth.

4590 MESSIERI, A. On tuberculosis of the horse; clinical description. (In Italian.) *Arch. Vet. Ital.* 1:49-62. Mar. 31, 1950. 41.8 Ar25 English summary.

4591 MEYER, E. Farbe und abzeichen bei pferden. *Hannover, Schaper*, 1949. 88 p. 42 M576

4592 MOLINA, A. S. Intoxicaciones alimenticias mas comunes en el caballo. *Charla Rur.* 136:8-9, 39. Jan. 1950. 9 C37

4593 MORTON, I. D., and TODD, A. R. The haemolytic acid present in horse brain. 1-2. *Biochem. J.* 47: 327-335. Ref. Sept. 1950. 382 B52 2, by E. D. Goddard and A. E. Alexander.

4594 NORDEN, C. A good horse is never a bad colour. *So. African Saddle Horse* 2(4):12-14. July 1950. 42.8 So8

4595 PARNAS, J., and LORKIEWICZ, Z. Shigella equirulis and Bacterium anitratum (parashigellosis of foals). (In Polish.) *Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. DD* 5:273-290. Ref. 1950. 512 L96Ad English summary.

Also in *Med. Weter.* 6:280-284. May 1950. 41.8 M463

4596 PARSHUTIN, G. V. To protect pregnancy in mares. (In Russian.) *Konevodstvo* 20(6):1-4. June 1950. 42.8 K832



- 4597 PEREIRA, C., MELLO, M. J. DE, and CASTRO, M. P. DE. Tissue reaction to the larvae of *Haemaphysoma muscae* (Carter) during an experimental "summer sore" in a horse. (In Portuguese.) *Inst. Biol. São Paulo. Arq.* (1949/50)19:275-282. p950. 442.9 Sa6 English summary.
- 4598 PETIOT, M. P. Hydrocéphalie du poulain. *Rec. de Méd. Vét.* 126:467-470. Aug.1950. 41.8 R24
- 4599 PFAFF, G. Epistaxis in racehorses; incidence in South Africa. *So. African Vet. Med. Assoc. J.* 21:74-78. June 1950. 41.8 So8
- 4600 PINKIEWICZ, E. Treatment of myoglobinaemia with vitamin B1. (In Polish.) *Med. Weter.* 6:162-163. Mar.1950. 41.8 M463
- Horses.
- 4601 PIRES, A., and PRIETO, C. Tres nuevos casos de rinosporidiosis nasal en caballos. *Gac. Vet.* 12:118-125. May/June 1950. 41.8 G112
- 4602 RAKHOV, A. I. Again about the onion as an effective medicinal remedy. (In Russian.) *Priroda* 39(6):74-75. June 1950. 410 P933
- Treatment of wounds in colts with onion pulp.
- 4603 REID, C. H. Malignant tumor in the sinuses of a horse. *Calif. Vet.* 4:15. Sept./Oct.1950. 41.8 C12
- 4604 RUGIERO, H. R., PARODI, A. S., and SAENZ, A. C. Meningoencefalitis equina venezolana en el hombre. *Argentina. Inst. Bact. Malbrán. Rev.* (1945-48)13:154-162. 1950. 448.3 Ar3
- 4605 SAITO, K. Resultados de la vacunación preventiva contra la encefalitis infecciosa del caballo. *Rev. de Sanidad Vet.* 5:445-458. June 15,1950. 41.8 R3222
- Japanese type equine encephalomyelitis.
- 4606 SANDSTEDT, H. One-sided oat diet is bad; muscle diseases in horse. (In Swedish.) *Lantmannen* 34:667,684. Sept.2,1950. 11 L234
- 4607 SCHMIDT, K. Zur klinischen physiologie des sexualzyklus der stute mit besonderer berücksichtigung der rosse und der ovulation. *Monatsh. f. Vetmed.* 5:221-224. Aug.1950. 41.8 M742
- 4608 SEMUSHKIN, N. R. On the unification of methods for investigating stomach contents in horses. (In Russian.) *Veterinariia* 27(7):46-50. July 1950. 41.8 V6426
- 4609 SMITH, R. E. The vet says: pay attention to health of the foal. *Morgan Horse Mag.* 10(5):15. Oct. 1950. 42.8 M82
- 4610 SOBIECH, T. Notes on the treatment of tetanus in horses. (In Polish.) *Med. Weter.* 6:353-355. Ref. June 1950. 41.8 M463
- French summary.
- 4611 STEFANIAK, W. A case of false aneurysm of the collar arteria in a horse. (In Polish.) *Med. Weter.* 6:223-225. Apr.1950. 41.8 M463
- 4612 STRAUNARD, R. Podology's revision. (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 4:99-160. Dec.1949. 41.8 Sa6
- English summary.
- Anatomy of the horse's foot and hoof.
- 4613 TIERSTEIN, V. Fighting founder—congestion is reduced by walking your horse. *West. Livestock J.* 28(54):124-125. Sept.15,1950. 6 F2278
- 4614 TODD, A. C., and others. Continuous phenothiazine therapy for horses. III. The second year of treatment. *Vet. Med.* 45:429-434. Nov.1950. 41.8 M69
- M. F. Hansen, Z. N. Wyant, D. H. Crowds, and M. J. Cawein, joint authors.
- For strongylosis control.
- 4615 TORKELSON, D. E. Equine intestinal calculi. *Vet. Med.* 45:466. Nov.1950. 41.8 M69
- 4616 VAITSMAN, J. "Founder" in animals. (In Portuguese.) *Selec. Agr.* 5(52):31-32. Aug.1950. 9.2 Se4
- Horses.
- 4617 VAYSSE, J., and ZOTTNER, G. Contribution à l'étude de la chimiothérapie et de la chimioprévention de la dourine par l'antricyde. *Off. Internat. des Epizoot.* B. 34:172-179. May 1950. 41.8 Of2
- 4618 WEIDENMÜLLER, H. Zum vorkommen des malignen ödems beim pferd. *Deut. Tierärztl. Wchnschr.* 27:292-294. Ref. Sept.15,1950. 41.8 D482
- 4619 WESTHUES, M. Die narkotisierung des pferdes mit "Narkovet". *Berlin. u. Münch. Tierärztl. Wchnschr.* 1950:125-127. July 1950. 41.8 B45
- 4620 WHITE, E. A. Bacitracin in equine strangles. *Amer. Vet. Med. Assoc. J.* 117:399. Nov.1950. 41.8 Am3
- 4621 WIŚNIEWSKI, T. Histiocytary reaction in equine infectious anaemia. (In Polish.) *Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. DD* 5:151-170. Ref. 1950. 412 L96Ad
- English summary.
- 4622 WOYCIECHOWSKA, S. Virus abortions in mares—inclusion bodies in tissues of foetuses. (In Polish.) *Med. Weter.* 6:209-213. Ref. Apr.1950. 41.8 M463
- English summary.
- 4623 ZADURA, J. Subcapsular haemorrhages in the kidneys of horses hyperimmunized with erysipelotheix rhusiopathiae. (In Polish.) *Med. Weter.* 6:358-359. June 1950. 41.8 M463
- 4624 ZELLER, R. Zur therapie der blinddarmverstopfung mit atropin, glaubersalz und wasser. *Monatsh. f. Vetmed.* 5:249-251. Sept.1950. 41.8 M742
- Horses.
- 4625 ZULINSKI, T. An interesting case of a foreign body in the caecum of a horse. (In Polish.) *Med. Weter.* 6:163-164. Mar.1950. 41.8 M463

# Miscellaneous

- 4626 BERGGREN, G. Machine grooming in horse stables. Preliminary experiments. (In Swedish.) *Lantmannen* 34:619-622. Aug.12,1950. 11 L234
- Vacuum cleaning of horses.
- 4627 BOARD, J. Polo pony problems. *Country Life [London]* 108:768,771. Sept.8,1950. 80 C83
- Types and training.
- 4628 BÖLLHOFF, Kalt- und warmblutpferde in Hamm. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1141-1142. Aug.24,1950. 18 L2346
- 4629 BOURDELLE, E. La distribution géographique des équidés actuels. *Cong. Internat. de Zool. Compt. Rend.* (1948)13:383-387. 1949. 410.9 In8
- 4630 CARSON, B. L. Equine art on the postage stamp. I. *Natl. Horseman* 86(10):37;(11):10. Oct.-Nov. 1950. 42.8 N21
- 4631 CHIFFLET, R. F. Algunas consideraciones sobre la cría racional del caballo. *Charla Rur.* 137:6-7, 42. Mar.1950. 9 C37
- 4632 FOREMAN, M. Cuttin' horse. *West. Horseman* 15(10):6-7,31-34. Oct.1950. 42.8 W522
- Judging.
- 4633 FOREMAN, M. Cutting horse difficulties. *Tex. Livestock J.* 9(9):73. Sept.15,1950. 49 T29
- 4634 FOREMAN, M. Horse handling science. 26. *Cattleman* 37(6):30,167. Nov.1950. 49 C29
- 4635 GALINDO, A. Nuestro caballo agrícola. *Cult. Mod.* 33:250-251. July 1950. 15 C89
- Spain.
- 4636 HARTUNG, A. M. Early day range horses. *Natl. Horseman* 86(11):25,49. Nov.1950. 42.8 N21
- 4637 HUISMAN, T. H. 18th national draft horse exposition in Den Bosch. (In Dutch.) *Nieuwe Veldbode* 16:839-840. Sept.28,1950. 12 V542N
- 4638 HUNTER, B. Should judges be criticized. *Tenn. Walking Horse* 6(4):10-13. Aug.1950. 42.8 T25
- 4639 IAKOVLEV, A. A. Gaits as indicators of employable characteristics of horses. (In Russian.) *Konevodstvo* 20(6):34-42. June 1950. 42.8 K832
- 4640 LATTING, E. T. Ganging up on a pony. *West. Horseman* 15(10):16. Oct.1950. 42.8 W522
- 4641 NIEUHOFF, G. A. R. The national hot-blooded horse demonstration. (In Dutch.) *Nieuwe Veldbode* 16:841. Sept.28,1950. 12 V542N
- Netherlands.
- 4642 PABST. Fallingbostel prüft die zugsicherheit seiner pferde. *Hannoversche Land- u. Forstwirt. Ztg.* 103:437. Apr.29,1950. 18 H194
- 4643 PARK, J. Horse talk. 3. Horses of the Southwest—their origin and their jobs. *Amer. Brahman Breeder* 1(3):31-32. May 1950. 43.8 Am34
- 4644 RICHARDSON, C. Practical farriery. London, Pitman, 1950. 74 p. 42 R392
- Includes anatomy.
- 4645 SALCES, F. El fomento equino en nuestro país y en el ejército. *Argentina. Dir. Gen. de Remonta y Vet. Rev. de Vet. y Fomento Equino* 10(37):10-50. (Cont.) Mar./June 1950. 42.8 R32
- 4646 STREET, R. C. Selecting the child's pony. *West. Horseman* 15(10):18-19. Oct.1950. 42.8 W522



- 4647 WOOTTON, S. The English racing horse abroad. (In Portuguese.) *Agr. e Pecuaria* 21(325):4-6. Aug. 1950. 9.2 Ag89

## LABORATORY ANIMALS, SMALL

## Feeds and Feeding

- 4648 ASENJO, C. F., MUFIZ, A. I., and QUINTANA, M. L. Growth response of folic acid-depleted rats to supplementation with tropical foods. *Food Res.* 15:326-330. July/Aug. 1950. 389.8 F7322
- 4649 BRUCE, H. M. Feeding and breeding of laboratory animals. XI. Vitamin E deficiency in mice on a diet containing 85% of whole-grain cereals, after the addition of 2% of cod-liver oil. *J. Hyg. [London]* 48:171-183. Ref. June 1950. 449.8 J82
- 4650 CRAMPTON, E. W., and SIDDALL, M. The effects of the additions of homogenized condensed fish to rations of rats as measured by their liveweight changes and feed consumption. (Abs.) *Chem. Canada* 2:175. Oct. 1950. 381 C4236
- 4651 TURNBULL, D., and DENSTEDT, O. F. Growth of rats on an iron-deficient diet. (Abs.) *Chem. Canada* 2:175. Oct. 1950. 381 C4236

## Veterinary Medicine

- 4652 PARISH, H. J. Notes on communicable diseases of laboratory animals. Edinburgh, Livingstone, 1950. 69 p. 41 P212

## POULTRY

## Breeds and Breeding

- 4653 ADAMS, A. Leghorn that discloses its sex at birth. (In Dutch.) *Pluimveeteelt* 3(10):5. Apr. 28, 1950. 47.8 P722
- 4654 BARBOSA, S. R. The "golden hen." (In Portuguese.) *Chacaras e Quintais* 82:337-338. Sept. 15, 1950. 9.2 C34
- The White Leghorn.
- 4655 BERG, V. D. Can we inbreed our present show Rocks? (In Dutch.) *Pels en Pluim* 5(11):5. June 2, 1950. 47.8 P36
- 4656 BOLTON, J. W. Selection and show preparation of Fantails. *Amer. Pigeon J.* 39:300. Oct. 1950. 47.8 Am35
- 4657 BOLTON, J. W. There's fascination in showing Fantails. *Amer. Pigeon J.* 39:324-325. Nov. 1950. 47.8 Am35
- 4658 BRITO, S. Why I prefer the Barred Plymouth Rock. (In Portuguese.) *Agr. e Pecuaria* 21(324):66, 68. July 1950. 9.2 Ag89
- 4659 BURI, H. E. The Lahore and its color. *Amer. Pigeon J.* 39:296. Oct. 1950. 47.8 Am35
- 4660 BUSS, E. G., BOHREN, B. B., and WARREN, D. C. The inheritance of "stringy," an abnormal feather condition in White Leghorn chickens. *J. Hered.* 41:143-144. June 1950. 442.8 Am3
- 4661 DARTON, T. H., and DARTON, D. E. The Poultry Stock Improvement Plan. *Poultry Indus. [Milford]* 15:417. Oct. 13, 1950. 47.8 P8644
- Breeding.
- 4662 DEELDER, J. C. Dutch Bantams. (In Dutch.) *Pels en Pluim* 5(9):4. May 5, 1950. 47.8 P36
- 4663 EMEIS, M. G. Hollands hens, Golden and Booted Bantams. (In Dutch.) *Pels en Pluim* 5(2):4. Jan. 13, 1950. 47.8 P36
- 4664 ENGEL, W. Nochmals "Fränkische Samtschilder". *Thür. Kleintierzüchter* 4:202-203. July 31, 1950. 49 T42
- 4665 FELS. Zur geschichte unserer Minorka. *Kleintierzüchter Tierbörse* 4(39):1. Aug. 12, 1950. 49 K672
- 4666 FINK, F. Kann die brieftaube umweltmüde werden? *Osterr. Kleintierzüchter* 1950:805. Aug. 1950. 49 Os7
- 4667 FRINGS, H. M. K. The old Dutch poultry breeds and National Poultry Institute at Beekbergen. (In Dutch.) *Pels en Pluim* 5(2):1. Jan. 13, 1950. 47.8 P36
- 4668 GERICKE, A. M. Selection and breeding of turkeys. *Farming So. Africa* 25:229-232. July 1950. 24 So842
- 4669 GLEICHAUF, R. Die methode der umstellung einer Italiener-herde auf Kennitaliener und ihre genetische erklärung. *Deut. Wirtgeflügelzucht.* 2:277-278. Aug. 26, 1950. 47.8 D483
- 4670 GOODWIN, K., HUTT, F. B., and COLE, R. K. A sex-linked lethal gene in the fowl. *Science* 112:460-461. Oct. 20, 1950. 470 Sci2
- 4671 GREENWOOD, A. W. Breeders should pay more attention to fertility and hatchability. *Mod. Poultry Keeping* 63:343. Oct. 11, 1950. 47.8 Eg3
- 4672 GUERANDE, C. Les races de poules de l'Ouest. *Rustica* 23:750, 755. Sept. 3, 1950. 14 R92
- France.
- 4673 HEPBURN, J. M. Progress in poultry breeding. *Austral. Farm & Home* 59(9):131, 133. Sept. 1, 1950. 23 Au7
- 4674 HILGER, R. Betrachtungen über den Hensenkröpfer. *Kleintierzüchter Tierbörse* 4(40):1. Aug. 19, 1950. 49 K672
- 4675 HILGER, R. Das Brakelhuhen. *Geflügelhof* 13:514-515. Aug. 4, 1950. 47.8 G276
- 4676 HOFFMAN, W. G. Flying Tipplers as a hobby. *Amer. Pigeon J.* 39:302-303, 310-311. Oct. 1950. 47.8 Am35
- 4677 HUTT, F. B., and LONG, J. Sunsuitt, a mutation reducing plumage in the fowl. *J. Hered.* 41:145-150. June 1950. 442.8 Am3
- 4678 HUTTON, J. Cornish or Indians. *All-Pets Mag.* 21(9):80-81. Sept. 1950. 48.8 AL5
- 4679 JAAP, R. G. How to select broiler breeding stock. *Broiler Growing* 1(3):10, 42-43. Nov. 1950. 47.8 B782
- 4680 JOHNSON, E. A. Leghorns vs. Reds for egg production. *Coop. Poultryman* 15(10):5. Oct. 1950. 47.8 C782
- 4681 KING, C. R. The origin of the Silver King. *Amer. Pigeon J.* 39:326-327. Nov. 1950. 47.8 Am35
- 4682 KNOWLES, T. E. A breeding system for the non-pedigree man. *Poultry Field* 3(12):9-11, 16. Oct. 26, 1950. 47.8 P8655
- 4683 KULA, S. Breeding Swallows in Czechoslovakia. *Amer. Pigeon J.* 39:298-299. Oct. 1950. 47.8 Am35
- 4684 LIVET, L. Les croisements. *Paysan Franç.* 26(39):10. Sept. 1950. 14 P29
- Poultry.
- 4685 LOGMAN, H. The advantage of specialized breeding in the pigeon fancy. (In Dutch.) *Pels en Pluim* 5(18):4. Sept. 8, 1950. 47.8 P36
- 4686 LOGMAN, H. The position of the various ornamental pigeon breeds. (In Dutch.) *Pels en Pluim* 5(9):6;(10):5. May 5-19, 1950. 47.8 P36
- 4687 LUCAS, W. C., SEEGER, K. C., and TOMHAVE, A. E. Production factors of six varieties of turkeys. *Del Agr. Expt. Sta. B.* 279, 19 p. Sept. 1949. 100 D37S
- 4688 MCARDLE, A. A. Crossbred table poultry tests; further results from crosses using White Leghorn hens. *So. Austral. Dept. Agr. J.* 53:555-556. July 1950. 23 So84
- 4689 MACKLIN, H. P. Pigeon portraits. *Amer. Pigeon J.* 39:294-295, 328-329, 331. Oct.-Nov. 1950. 47.8 Am35
- Stettiner Tumbler and Latz or Breast pigeon.
- 4690 MARSDEN, S. J., and MOORE, S. A. An outline for selecting breeding turkeys. *U. S. Bur. Anim. Indus. A.H.D.* 113, rev., 8 p. Sept. 1950. 1.9 An52Ah
- 4691 NICHOLAS, G. A. Your turkeys are our problems. *Calif. Turkey News* 22:19, 52-53. Sept. 1950. 47.28 C12
- Breeding.
- 4692 NIEBOER, J. Crested and bearded chickens. (In Dutch.) *Pels en Pluim* 5(14):4. July 14, 1950. 47.8 P36
- 4693 ROBERTS, B. G. Cayuga ducks. *All-Pets Mag.* 21(9):81-82. Sept. 1950. 48.8 AL5
- 4694 ROOS, M. J. American Dutch Plymouth Rocks. (In Dutch.) *Pels en Pluim* 5(6):4. Mar. 24, 1950. 47.8 P36
- 4695 ROOS, M. J. How do we breed an auto-sexing race of Leghorns. (In Dutch.) *Pluimveeteelt* 3(4):4-5. Feb. 17, 1950. 47.8 P722
- 4696 ROOS, M. J. A talk on selection. (In Dutch.) *Pluimveeteelt* 3(2):4. Jan. 20, 1950. 47.8 P722
- Chickens.



- 4697 ROOS, M. J. Test matings. (In Dutch.) Pels en Pluim 5(8):1. Apr. 21, 1950. 47.8 P36 Poultry.
- 4698 RUSSELL, M. Hybrid chickens lay more eggs. Colo. Rancher & Farmer 4(19):6. Oct. 14, 1950. 6 C714
- 4699 SCHROEDER, W. Crested White duck. All-Pets Mag. 21(9):81. Sept. 1950. 48.8 AL5
- 4700 SHAPKIN, P. A. An outstanding poultry-woman. (In Russian.) *Sotsialist. Zhivotnovod.* 12(5):53-55. May 1950. 49 So71  
Kh. P. Potirailo's achievements in geese breeding in Poltava Region.
- 4701 STUECKEL, A. Development of the Komorner Tumbler. Amer. Pigeon J. 39:322-324. Nov. 1950. 47.8 Am35
- 4702 TOMEY, A. Breed your own. Farmers Wk. [London] 33(9):65. Sept. 1, 1950. 10 F2226 Poultry breeding.
- 4703 TURNILL, L. Breeding for eggs. 9. Poultry Farmer [London] 123(3189):11. Aug. 18, 1950. 47.8 F312
- 4704 VAART, M. F. VAN DER. Ermine colored Sussex. I-II. (In Dutch.) Pels en Pluim 5(11):4;(12):4. June 2-16, 1950. 47.8 P36
- 4705 VAART, M. F. VAN DER. The Sebright Bantams. (In Dutch.) Pels en Pluim 5(3):4-5. Feb. 10, 1950. 47.8 P36
- 4706 VERSTEEG, H. Colombiculture et expositions. Cour. Hort. 12:559-560. Oct. 1950. 80 C834 Breeds.
- 4707 VERSTEEG, H. Le Moine. Cour. Hort. 12:466. Aug. 1950. 80 C834
- 4708 VERVENNE, B. VAN A. Why the preference for first crosses. (In Dutch.) Pels en Pluim 4(25):3. Dec. 16, 1950. 47.8 P36 Poultry.
- 4709 VRIES, DE. The Bantams in aviculture. (In Dutch.) Pels en Pluim 5(3):6. Feb. 10, 1950. 47.8 P36
- 4710 WASHBURN, F. M. The origin of the Silver King. Amer. Pigeon J. 39:327. Nov. 1950. 47.8 Am35
- 4711 WATANABÉ, Y. The shape of poultry breeding to come. Mod. Poultry Keeping 63:391. Oct. 25, 1950. 47.8 Eg3
- 4712 WEEKERS, E. Inbreeding, outbreeding and hybridization. (In Dutch.) *Pluimveeteelt* 3(9):1. Apr. 14, 1950. 47.8 P722 Poultry.
- 4713 WHITEL, T. E. Una de las características mas importantes en las aves. *Charla Rur.* 137:36. Mar. 1950. 9 C37 Heredity in egg production.
- 4714 WILKINS, S. J. Rearing and feeding the Muscovy duck. Agr. Gaz. N. S. Wales 61:433-438. Aug. 1, 1950. 23 N472
- 4715 ZWIJNENBERG, M. G. The position of the Plymouth Rock three years after the war. (In Dutch.) Pels en Pluim 5(9):4-5. May 5, 1950. 47.8 P36
- Feeds and Feeding
- 4716 ALBADA, M. VAN, and UBBELS, P. Fattening poultry. *World's Poultry Sci. J.* 6:192-193. July/Sept. 1950. 47.8 W89 Use of methyl-thiouracil.
- 4717 BARKER, W. E. The pathway to success. *Racing Pigeon* 93:35. Oct. 7, 1950. 47.28 R11 Feeding.
- 4718 BARLEY, H. D. Secret is in the pasture; efforts to retard pullets from laying will meet with failure unless they are ranged over first-class grassland. *Poultry World* 87:160. Aug. 24, 1950. 47.8 P8682
- 4719 BENNION, N. L. Are your birds finished? Knowing how to finish and when. *Turkey World* 25(10):11, 59-60. Oct. 1950. 47.38 T84
- 4720 BLACK, D. J. G. What the birds get from grass. (Extr.) *Mod. Poultry Keeping* 63:340-341. Oct. 11, 1950. 47.8 Eg3
- 4721 BRISSON, G. J., NIKOLAICZUK, N., and MAW, W. A. Feeding value of horsebean (*Vicia faba* L.) for chicks. *Sci. Agr.* 30:384-391. Ref. Sept. 1950. 7 Sci2
- 4722 BROWN, W. O. Dried-grass meal as a riboflavin supplement to animal feeding stuffs with special reference to poultry. *J. Sci. Food & Agr.* 1:219-222. Ref. July 1950. 382 So12
- 4723 BROZZETTI, P. The addition of dried cattle laeces to the chicken ration. Its effect on the development of growing chicks. (In Italian.) *Zootec. e Vet.* 5:605-617. July 1950. 41.8 Z7 English summary.
- 4724 CAMPOS, J. How to prepare rations for hens. (In Portuguese.) *Rev. Ceres* 8:251-256. Jan./June 1950. 9.2 C332
- 4725 CIANI, G. Feeding ducks with slaughterhouse refuse only. (In Italian.) *Arch. Vet. Ital.* 1:35-40. Ref. Mar. 31, 1950. 41.8 Ar25 English summary.
- 4726 COLES, R., and PRESTON, A. R. Condensed fish solubles in poultry and pig foods. *Gt. Brit. Min. Agr. Agriculture* 57:205-209. Aug. 1950. 10 G79J
- 4727 CCUCH, J. R. APF, vitamin B<sub>12</sub>, and the antibiotics. *Turkey World* 25(10):20, 61-63. Oct. 1950. 47.38 T84
- 4728 COUCH, J. R. Faster growth comes from feed research. *Broiler Growing* 1:48. Sept. 1950. 47.8 B782
- 4729 CRAVENS, W. W. Antibiotics in nutrition. *Flour & Feed* 51(5):10. Oct. 1950. 298.8 F66 Poultry.
- 4730 CRAVENS, W. W. How to formulate poultry rations. *Feed Bag* 26(10):15, 91. Oct. 1950. 389.78 F32 Also in *Feedstuffs* 22(42):64-65. Oct. 21, 1950. 286.81 F322
- 4731 DAVIS, J. P. Rations for poultry. *Grain & Feed J. Consolidated* 105(7):38-39. (Excerpts.) Oct. 11, 1950. 298.8 G762
- 4732 DEMERS, J. M., and BERNARD, R. Further work on the nutrition of ducklings. *Canad. J. Res. Sec. E. Med. Sci.* 28:202-211. Ref. Oct. 1950. 470 C16E
- 4733 DIETZ, A. T. Protein intake of laying hens. *Calif. Agr. [Calif. Sta.]* 4(10):10. Oct. 1950. 100 C12Cag
- 4734 ENGELMANN, Das huhn und sein futter. *Thür. Kleintierzüchter* 4:190. July 20, 1950. 49 T42
- 4735 FRONDA, F. M. Our poultry feed problem. *Agr. & Indus. Life* 12(8):17, 40. Aug. 1950. 25 Ag8 Philippine Republic.
- 4736 GARCIA DE PAREDES, A. B. La alimentación en avicultura. *Balearic Isl. Diputación Prov. B. de Agr.* 71:11. Aug. 1950. 15 B19
- 4737 GRAU, C. R. Cottonseed meal for chicks. *Calif. Agr. [Calif. Sta.]* 4(9):14-15. Sept. 1950. 100 C12Cag Also in *Coop. Poultryman* 15(10):3-4. Oct. 1950. 47.8 C782
- 4738 HALPIN, J. G. Horse sense in feeding. *Grain & Feed J. Consolidated* 105(8):28-27. (Excerpts.) Oct. 25, 1950. 298.8 G762 Poultry.
- 4739 HEMSLEY, J. A. Balancing the hen's protein requirements. *Poultry [London]* 107:210. Sept. 12, 1950. 47.8 P869
- 4740 IZCUA, H. Se acrecienta la producción de pollos con alimento irradiado. *Chacra* 20(238):48-49. Sept. 1950. 9 C34
- 4741 JOHNSON, E. L. Animal protein factors and antibiotics in poultry feeding. *Westerns* 12(11):1-4. Sept. 1950. 389.78 W522
- 4742 JOOSTE, P. E. F. Feeding of cereals—troughs or litter? *S. A. P. A. Poultry B.* 14(155):11. Aug. 1950. 47.8 So89
- 4743 KENNARD, D. C. Floor litter management as a factor in poultry nutrition. *Poultry Indus. [Boston]* 54(4):5, 29. Oct. 1950. 47.8 N44
- 4744 KRATZER, F. H. Turkey nutrition research. *Calif. Turkey News* 22:9, 45, 47. Sept. 1950. 47.28 C12
- 4745 KUSHNER, KH. F., KOREPANOVA, G. IA., and BUKIN, V. N. Productivity and incubational characteristics of eggs in hens in relation to their nutrition. (In Russian.) *Akad. Nauk SSSR. Dok.* 72:1191-1194. June 21, 1950. 511 P444A
- 4746 LLOYD-THOMAS, W. Potatoes are fine for geese. *Mod. Poultry Keeping* 63:393. Oct. 25, 1950. 47.8 Eg3
- 4747 LÓPEZ LABORDA, J. La harina de alfalfa en la alimentación aviar. *Reus Avic.* 15:1-2. 1950. 47.8 R31
- 4748 MACILRAITH, J. J. It will take good feeding and breeding to end leg weakness and low fertility. *Turkey World* 25(10):18-19, 63-64. Oct. 1950. 47.38 T84



- 4749 MOORE, J. S. Advice on finishing turkeys for market. Fla. Poultry & Dairy J. 16(10):2,11. Oct.1950. 47.8 F66
- 4750 MORRIS, L. Proper finishing of turkeys for market. Norbest Turkey News 1950(4):5-6. Oct.1950. 47.38 N75
- 4751 NIKOLAICZUK, N. A chick survival method for the assay of vitamin A active substances in mixed feeds. (Abs.) Chem. Canada 2:175. Oct.1950. 381 C4236
- 4752 NIKOLAICZUK, N. Some observations upon the feeding value of millet for chicks. Agriculture [Montreal] 7:160-163. Summer 1950. 7 Ag82
- 4753 NORRIS, L. C. Miteposts in poultry nutrition. East. Feed Merchant 1(10):13-15. Oct.1950. 389.78 Ea7
- 4754 PEELE, F. E. After turkeys are off the stubbles then comes the critical period. Mod. Poultry Keeping 63:294. Sept.27,1950. 47.8 Eg3
- Feeding mash.
- 4755 PETERSEN, N. Richtige eiweitzufuhr; rationelle fütterung. Kleintierzüchter Tierbörse 4(40):1-2. Aug.19,1950. 49 K672
- Poultry feeding.
- 4756 PLATT, C. S. Fall and winter feeding for egg production. Rur. New-Yorker 100:698. Oct.7,1950. 6 R88
- 4757 PORRES, C. A. La avicultura y los labradores: alimentación. Agr. Buralgés 17(188):14-15. Aug.1950. 15 Ag86
- 4758 RAIMO, H. F. Notes on the use of fish-meal in the feeding of poultry. (In Portuguese.) Rev. dos Criadores 21(6):25-26. June 1950. 43.8 R32
- 4759 RIET, J. Alimentación y enfermedades aviarias. Asoc. Rur. del Uruguay Rev. 77(8):95-99. Aug.1950. 9.9 As5
- 4760 ROBINSON, H. E., and GRAY, R. E. No! Rover's fondness for dog food isn't robbing other livestock of needed food nutrients. Natl. Provisioner 123(15):10-12. Oct.7,1950. 286.85 N21
- Tests in feeding supplements to poultry and swine.
- 4761 SEDLITZKY, M. Untersuchungen über den einfluss des wirkstoffes "T" auf futterverwertung und wachstum von küken. Wien. Tierärztl. Monatsschr. 37:644-648. Ref. Sept.1950. 41.8 T345
- 4762 SHAW, R. B., and NIGHTALL, E. W. Rearing chicks on home grown feeding-stuffs. World's Poultry Sci. J. 6:201-206. July/Sept.1950. 47.8 W89
- 4763 SINGSEN, E. P. New broiler feeds are sound. Broiler Growing 1(3):13,49-50. Nov.1950. 47.8 B782
- 4764 USUELLI, F. Recent additions to the feeding of poultry. II. Vitamin requirements. (In Italian.) Riv. di Zootec. 23:225-227. July 1950. 49 R52
- 4765 VAVICH, M. G., and KEMMERER, A. R. Effect of xanthophylls on utilization of carotene by chicks. Arch. Biochem. 28:295-298. Sept.1950. 381 Ar2
- 4766 VECIANA VERGES, J. M. Alimentación. Reus Avic. 15:8-9;16:3-5;17:11-12. 1950. 47.8 R31
- Veterinary Medicine
- 4767 ALBERTS, J. O. The prophylactic and therapeutic properties of sulfamerazine in fowl cholera. Amer. J. Vet. Res. 11:414-420. Ref. Oct.1950. 41.8 Am3A
- 4768 ALBERTS, J. O. The prophylactic and therapeutic properties of sulfamerazine in fowl typhoid. Amer. J. Vet. Res. 11:421-425. Oct.1950. 41.8 Am3A
- 4769 AMES, J. J. On the color of the eyes of our chickens. (In Dutch.) Pluimveeteelt 3(15):4. July 7,1950. 47.8 P722
- 4770 ARVY, L., and others. Modifications de répartition de la phosphatase alcaline au cours de l'érythroblastose aviaire transmissible. Soc. de Biol. Compt. Rend. 144:883-885. July 1950. 442.9 P21
- M. Bessis, P. Freixa, and M. Gabe, joint authors.
- 4771 BECKER, E. R., and MANRESA, M., JR. Phanozoites in turkeys succumbing with blood-induced Plasmodium lophurae infection. Iowa State Col. J. Sci. 24:353-354. Apr.1950. 470 Io9
- 4772 BECKER, E. R. The response of White Pekin ducklings infected with Plasmodium lophurae to injections of plasma from recovered ducks. Natl. Malaria Soc. J. 9:214-217. Sept.1950. 448.9 N213
- 4773 BESSIS, M., and FREIXA, P. Action de deux antagonistes de l'acide folique sur la leucémie des poules. Soc. de Biol. Compt. Rend. 144:885-887. July 1950. 442.9 P21
- 4774 BIERER, B. W. Avian navel infection. Vet. Med. 45:447-450. Nov.1950. 41.8 M69
- 4775 BIGLAND, C. H. Gentlemen, let's not miss any bets on poultry diseases. Fort Dodge Bio-chem. Rev. 21(3):10-12,27. Fall 1950. 41.8 F772
- 4776 BIGLAND, C. H. A report on the isolation of Listeria (Listerella) organisms from a canary and a chicken in the Province of Alberta. Canad. J. Compar. Med. 14:319-324. Oct.1950. 41.8 C162
- Listeria monocytogenes.
- 4777 BLACK, D. J. G., and others. The effect of continuous ingestion by poultry of benzene hexachloride. Brit. Vet. J. 106:386-391. Oct.1950. 41.8 V643
- J. Getty, H. R. Jameson, and H. Pirie, joint authors. Residues in eggs and meat.
- 4778 BLAXLAND, J. D. Moniliasis in turkey flocks. Mod. Poultry Keeping 63:220-221. Sept.6,1950. 47.8 Eg3
- 4779 BOLIN, F. M., and EVELETH, D. F. Newcastle disease of turkeys. N. Dak. Agr. Expt. Sta. Bimon. B. 13:12-13. Sept./Oct.1950. 100 N813B
- 4780 BONADUCE, A. Research on the production of antibodies inhibiting the hemoagglutination of Newcastle disease virus in chickens vaccinated with products prepared at various times. (In Italian.) Clin. Vet. 73:229-240. Ref. Aug.1950. 41.8 C61
- 4781 BONADUCE, A. Research on the resistance to different temperatures of the virus of Italian pseudo fowl pest. (In Italian.) Zooprofilassi 5:421-429. Ref. Sept. 1950. 41.8 Z72
- 4782 BRANSON, H., BROOKS, M., and PIPER, P. F. The order of utilization of phosphorus compounds in the egg by the chick embryo. Science 112:357-358. Sept.29, 1950. 470 Sci2
- 4783 BRETSCHER, A. Experimentelle unterdrückung der polydactylie beim hühnchen. Rev. Suisse de Zool. 57:576-583. Ref. July 1950. 410 R324
- 4784 BURNET, F. M. The haemolytic action of Newcastle disease virus. I. The two types of interaction between virus and red cell. Austral. J. Expt. Biol. & Med. Sci. 28:299-309. Ref. May 1950. 442.8 Au7
- 4785 BUSHNELL, L. D., and ERWIN, L. E. Newcastle disease. Kans. Agr. Expt. Sta. C. 263,21 p. Ref. Sept.1950. 100 K13S
- Circular 243 revised.
- 4786 CARR, A. K. A proposed Salmonella typhimurium testing service. Calif. Dept. Agr. B. 39:116-117. July/Sept.1950. 2 C12M
- In turkeys.
- 4787 CASAROSA, L. Acuarias (or dispharagosis) of poultry. I. Contribution to a knowledge of the parasites. (In Italian.) Zooprofilassi 5:275-276,279-282,285-290. Ref. June 1950. 41.8 Z72
- French summary.
- Acuaria hamulosa and A. nasuta.
- 4788 COLES, R. Bob-tailed birds. Poultry Farmer [London] 123(3189):8. Aug.18,1950. 47.8 F312
- Defect in backbone of poultry.
- 4789 COLLIER, W. A., POLAK, M. F., and VERHAART, W. J. C. Monkeys infected with the virus of Newcastle disease. (In Dutch.) Hemera Zoa 57:415-427. Ref. July 1950. 41.8 V51
- English summary.
- 4790 COLLIER, W. A., and DINGER, J. E. Research on Newcastle disease 1940-1942. Doc. Neerland. et Indonesica de Morbis Trop. 2:189-192. June 1950. 448.8 D65
- 4791 COMMON, R. H., KEEFE, T. J., and MAW, W. A. Some biochemical effects of thiouracil on the response of the immature pullet to estrogen. Canad. J. Res. Sect. D, Zool. Sci. 28:272-279. Ref. Oct.1950. 470 C16D
- 4792 CONNELL, R. Enterohepatitis (blackhead) in turkeys. VI. Abnormalities, possibly caused by a stage of Histomonas meleagridis, occurring in second stage larvae of blackhead-transmitting Heterakis gallinae. Canad. J. Compar. Med. 14:331-337. Oct.1950. 41.8 C162
- 4793 DAVIS, O. S., ANDREWS, F. N., and DOYLE, L. P. Studies on avian leucosis. V. An investigation of the possible relationship of sex hormones to visceral lymphomatosis. Amer. J. Vet. Res. 11:428-436. Ref. Oct.1950. 41.8 Am3A
- 4794 DIVO, A. La enfermedad de Newcastle (Neumocéfalitis aviaria) en Venezuela. Venezuela. Inst. de Invest. Vet. B. 3:547-575. Ref. May 1950. 41.9 V552
- English summary.



- 4795 DOLL, E. R., WALLACE, M. E., and MCCOLLUM, W. H. Reinfection of chickens vaccinated by the intranasal method with live B1 Newcastle disease virus. *Amer. J. Vet. Res.* 11:437-440. Oct. 1950. 41.8 Am3A
- 4796 DONKER-VOET, J., and KURJANA, R. Newcastle disease; results obtained in practice. (In Dutch.) *Hemera Zoa* 57:428-434. July 1950. 41.8 V51
- English summary.  
Immunization.
- 4797 ECHARRI LOIDI, J. M. Avicultura y estrógenos. *Cult. Mod.* 33:254-256. July 1950. 15 C89
- Caponizing with hormones.
- 4798 ENGLER, H. Krank? Wo fehlt's? Was tun? Eine anleitung zur erkennung und bekämpfung von geflügelkrankheiten. *Geflügelhof* 13:523-524. Aug. 11, 1950. 47.8 G276
- 4799 ERIKSEN, S. Vaccines holding Newcastle in check. *Broiler Growing* 1(2):6,38-40. Oct. 1950. 47.8 B782
- 4800 FORTNER, J. Vergleichende untersuchungen über die atypische hühnerpest und die New Castle-krankheit. *Zentbl. f. Bakt. Parasitenk. Infektkrank. u. Hyg. Abt. I Orig.* 154(Ber. über die 2 Tagung der Freien Ver. Deut. Hyg. u. Mikrobiol.):161-164. Sept. 23, 1950. 448.3 C33
- 4801 GALLEG0 PIEDRAFITA, J. El confusionismo en avicultura. *Valencia Avic.* 7(7):15-16. Aug. 1950. 47.8 V23
- Newcastle disease vaccination in Spain.  
Also in *Reus Avic.* 15:6-8. 1950. 47.8 R31
- 4802 GEIGY, R., and BRITSCHGI, H. Untersuchungen über die E-formen von *Plasmodium gallinaceum* in organen des hühnchens am 9./10. infektionstag. *Rev. Suisse de Zool.* 57:526-532. July 1950. 410 R324
- 4803 GIL FORTÚN, F. Existe alguna relación entre la leucosis y la peste aviar? *B. de Zootecnia* 6:245-246. July 1, 1950. 41.9 So16
- 4804 GOLDSBY, A. I., and EVELETH, D. F. Immunizing baby chicks against cecal coccidiosis. *N. Dak. Agr. Expt. Sta. B.* 361,12 p. Ref. Oct. 1950. 100 N813
- 4805 GORDEUK, S., JR. Dramatic moments in our fight against disease. *Everybody's Poultry Mag.* 55(9):12, 46-47. Oct. 1950. 47.8 F213P
- 4806 GRABAR, J., LE MINOR, S., and PERDRIX, J. *Salmonella kentucky* isolée du sac vitellin de canetons. *Acad. Vét. de France. B.* 23:413-416. Ref. July 1950. 41.9 R24
- 4807 GUHA, S., and CHATTERJEE, S. N. Study of the symptoms and postmortem lesions in fowls experimentally infected with Ranikhet disease virus. *Indian Vet. J.* 27:69-73. Sept. 1950. 41.8 In2
- 4808 HANSON, R. P., and others. The antiviral activity of Newcastle disease immune sera. *J. Bact.* 60:557-560. Nov. 1950. 448.3 J82
- N. S. Winslow, C. A. Brandy, and E. Upton, joint authors.
- 4809 HARRISON, A. P., JR., and HANSEN, P. A. Lactobacilli from turkeys. *J. Bact.* 60:543-555. Ref. Nov. 1950. 448.3 J82
- 4810 HARWOOD, P. D., and STUNZ, D. I. The efficacy of nitrofurazone fed continuously for the control of avian coccidiosis under conditions of natural infection. *Helminthol. Soc. Wash. Proc.* 17:103-119. Ref. July 1950. 436.9 H36
- 4811 HILGER, R. Behandlung des geflügels bei befall mit lufttröhrenwürmern. *Geflügelhof* 13:509-510. Aug. 4, 1950. 47.8 G276
- 4812 HIPOLITO, O., and XAVIER, A. DE M. Control of pullorum disease in Minas Gerais. (In Portuguese.) *Rev. Ceres* 8:237-245. Ref. Jan./June 1950. 9.2 C332
- 4813 HIRSCH, A. Glycol vapor helps round out modern poultry health program; evidence indicates fumes destroy air-borne Newcastle virus and other disease organisms. *Poultry Supply Dealer* 27(10):12-13,39. Oct. 1950. 47.8 B11
- Tri-ethylene glycol.
- 4814 HOOGENDOORN, J. The investigations of Prof. Romijn: On the respiration of chicken in the egg. (In Dutch.) *Pluimveeteelt* 3(14):3-4. June 23, 1950. 47.8 P722
- 4815 JANSEN, J. The authorities and the pseudo fowl pest. (In Dutch.) *Pels en Pluim* 5(6):2. Mar. 24, 1950. 47.8 P36
- 4816 JANSEN, J. Is the Netherlands to be infected with the pseudo fowl pest (Newcastle disease)? (In Dutch.) *Pels en Pluim* 5(3):1. Feb. 10, 1950. 47.8 P36
- 4817 JUNGHER, E. L., and LUGINBUHL, E. The program for controlling respiratory diseases of poultry in Connecticut. *World's Poultry Sci. J.* 6:194-196. July/Sept. 1950. 47.8 W89
- 4818 KARSTEN. Geflügeltuberkulose. *Deut. Wirt-geflügelzucht.* 2:275-276. Aug. 26, 1950. 47.8 D483
- 4819 KEENEY, A. H., and HUNTER, M. C. Human infection with the Newcastle virus of fowls. *A. M. A. Arch. Ophth.* 44:573-580. Ref. Oct. 1950. 448.8 Ar291
- 4820 KENYON, C. Fowl pest; dangerous to humans? (Extr.) *Poultry Field* 3(7):3. Aug. 17, 1950. 47.8 P8655
- Great Britain.
- 4821 KRAHNERT, R. Darmverschlingung nach innerem bruch bei einem huhn. *Monatsh. f. Vetmed.* 5:225-226. Aug. 1950. 41.8 M742
- 4822 KRAPIVNER, L. M. Zoogigiena i profilaktika v ptifsevodstve [Sanitation and prophylaxis in poultry raising]. *Riga, Latgosizdat*, 1950. 133 p. 41 K864
- 4823 LAHOZ, V. Enfermedades aviarias producidas por el virus. *Valencia Avic.* 7(7):17-19. Aug. 1950. 47.8 V23
- Also in *Reus Avic.* 17:3-6. 1950. 47.8 R31
- 4824 LEPINE, P., ATANASIU, P., and GAREAU, G. Trois cas d'infection de laboratoire par le virus de la maladie de Newcastle. *Inst. Pasteur Ann.* 79:193-196. Ref. Aug. 1950. 448.3 An75
- 4825 LE ROI, D. Work on fowl paralysis. *Farming [Norwich]* 4:307-308. Oct. 1950. 10 F2236
- 4826 LEVINE, N. D., MORRILL, C. C., and SCHMITTLE, S. C. Renal coccidiosis in an Illinois gosling. *No. Amer. Vet.* 31:738-739. Ref. Nov. 1950. 41.8 N812
- 4827 LITTLE, P. A., OLESON, J. J., and ROESCH, P. K. The effect of pteroylglutamic acid on some immune responses of chicks. *J. Immunol.* 65:491-498. Ref. Nov. 1950. 448.8 J8232
- 4828 LUTZ, H. Sur l'orientation des embryons obtenus par fissuration perpendiculaire à l'axe présumé du blastoderme de l'oeuf de cane. *Paris. Acad. des Sci. Compt. Rend.* 231:379-381. July 31, 1950. 505 P21
- 4829 MCGREGOR, J. K. Enheptin T in the prevention of blackhead. *Canad. Poultry Rev.* 74(9):33. Sept. 1950. 47.8 C16
- 4830 MARLOW, H. W. Pituitary-comb relationship. *Endocrinology* 47:300-302. Oct. 1950. 448.8 En2
- 4831 MARTINI, I. New criteria in vaccination against pseudo fowl pest. (In Italian.) *B. dell'Agr.* 84(16):1. Aug. 11, 1950. 16 B87
- 4832 MATHEY, W. J., STOVER, D. E., and BEACH, J. R. Asiatic Newcastle disease outbreak checked to eliminate potential source of loss of poultry industry in California and nation. *Calif. Agr. [Calif. Sta.]* 4(9):7,15. Sept. 1950. 100 C12Cag
- Also in *Coop. Poultryman* 15(10):14-15. Oct. 1950. 47.8 C782
- 4833 MAZZINI, C. A., and TORRE, E. J. Material de estudio para el diagnóstico de las enfermedades de las aves. *Argentina. Min. de Agr. Almanaque* 25:233-236. 1950. 9 Ag874
- 4834 MICHÁLEK, J. Operation to prevent the flying of poultry; haematoma under the m. masseter in a horse. (In Czech.) *Časopis Českoslov. Vet.* 5:348-349. Aug. 10, 1950. 41.8 C27
- 4835 MIGICOVSKY, B. B., and EMSLIE, A. R. G. Deposition of radioactive calcium in rachitic and non-rachitic chick tibia from oral and intramuscular doses of Ca<sup>45</sup>. *Arch. Biochem.* 28:324-328. Oct. 1950. 381 Ar2
- 4836 MIRANDA, F. De mi diario de observaciones. *Reus Avic.* 15:3-5. 1950. 47.8 R31
- Dead-in-shell chicks in incubators.
- 4837 MOINE, G. Observations et réflexions sur l'épizootie de maladie de Newcastle apparue dans le département du Nord en 1949. *Acad. Vét. de France. B.* 23:417-422. July 1950. 41.9 R24
- 4838 MONTALTI, M. Researches on the pathogenic power for small laboratory animals of a strain of avian tuberculosis. (In Italian.) *Clin. Vet.* 73:200-203. Ref. July 1950. 41.8 C61



- 4839 MOORE, E. N. Blackhead (Histomoniasis) can be controlled. N. Y. Agr. Col. Cornell Ext. B. 806, 4 p. Oct. 1950. 275.29 N48E
- 4840 MOYNIHAN, I. W., and MUSFELDT, I. W. Gapeworm infestation of pheasants. Canad. J. Compar. Med. 14:308-310. Sept. 1950. 41.8 C162
- 4841 NOBREGA, P., and REIS, A. S. Preparation of fowl pox vaccine with pigeon virus purified by penicillin and cultivated in the chorio-allantoic cavity of the chick embryo. (In Portuguese.) Inst. Biol. São Paulo. Arq. (1949/50) 19:23-29. Ref. 1950. 442.9 Sa6  
English summary.
- 4842 NORTH, J. We boost profits by hormonizing. Broiler Growing 1(3):16, 22, 24. Nov. 1950. 47.8 B782  
Stilbestrol pellets implanted in poultry.
- 4843 OLSEN, M. W., and FRAPS, R. M. Maturation changes in the hen's ovum. J. Expt. Zool. 114:475-489. Ref. Aug. 1950. 410 J825
- 4844 O'SULLIVAN, P. J., and SUTHERLAND, A. K. Coccidiosis of poultry. Queensland Agr. J. 71:51-58. July 1950. 23 Q33
- 4845 PEROTTI, R. M. La paralis de las aves suele atacar a los planteles selectos. Mundo Agr. 2(15): 16. Aug. 1950. 9 M92
- 4846 POMEROY, B. S. Enteritis in turkeys causes concern. Minn. Gobblers 5(5):3, 12. Oct. 1950. 47.38 M66
- 4847 POMEROY, B. S. The pullorum program for the 1951 hatching season. Minn. Gobblers 5(4):4, 7. Sept. 1950. 47.38 M66
- 4848 PROULX, J. R. Hormones pour attendre le vieux coq. Avicult. Québécois 6(10):15-16. Oct. 1950. 47.8 Av55  
Stilbestrol for caponizing.
- 4849 QUESADA, A. Contribution to the treatment of diphtheria-fowl pox affections in chickens with a trypsin solution. (In Italian.) Zooprofilassi 5:389-391. Aug. 1950. 41.8 Z72  
French summary.
- 4850 RINDFLEISCH-SEYFARTH, M. Zur pathologie des vogelschnabels. Deut. Tierärztl. Wchnschr. 57:226-227. Ref. July 15, 1950. 41.8 D482
- 4851 ROEPKE, W. J. On the pseudo fowl pest. (In Dutch.) Pels en Plum 5(7):3, 5. Apr. 7, 1950. 47.8 P36
- 4852 ROEPKE, W. J. Pseudo fowl pest rears its head again. (In Dutch.) Pels en Plum 5(13):6. June 30, 1950. 47.8 P36
- 4853 ROEPKE, W. J. The pseudo fowl pest situation is not good but not hopeless. (In Dutch.) Drents Landbbl. 31(26):4. July 1, 1950. 12 D812
- 4854 ROMIJN, C. Investigations on the metabolism of chickens; tests with North Holland Blue chickens. (In Dutch.) Tijdschr. v. Diergeneesk. 75:719-746. Ref. Sept. 1, 1950. 41.8 T431  
English summary.
- 4855 ROOS, M. J. Infectious diseases and transmission in connection with the pseudo fowl pest. (In Dutch.) Pluimveeteelt 3(7):4. Mar. 17, 1950. 47.8 P722
- 4856 ROSAS, E. La peste en las aves y el Ministerio de Agricultura. Rev. de Agr., Com. e Indus. [Panama] 8(107):32. July 1950. 8 R3291
- 4857 ROSSI, P., and BERUJON, J. Botulisme du canard, son traitement. Acad. Vét. de France. B. 23:365-369. Ref. July 1950. 41.9 R24
- 4858 SABARICH, F. La coccidiosis cecal de los polluelos y la sulfaminoxalina. Reus Avic. 14:7, 9, 11. 1950. 47.8 R31
- 4859 SALAM, M. A., and HUQ, M. M. Occurrence of avian salmonellosis in Pakistan. (Abs.) Co-op. & Mktg. Rev. 4:250. July 1950. 280.28 C78243
- 4860 SAN MIGUEL, J. Tuberculosis. Chile Avic. 11:6246-6251. Aug./Sept. 1950. 47.8 C43
- 4861 SARAIZA ORTIZ, R. Exterior de las gallinas. B. de Zootecnia 6:227-236. (Concl.) Ref. July 1, 1950. 41.9 So16
- 4862 SCHLAMB, K. F., and BRYANT, R. L. Effect of stilbestrol on turkey hens. N. Dak. Agr. Expt. Sta. Bimon. B. 13:18-20. Sept./Oct. 1950. 100 N813B
- 4863 SEEGER, K. C. Coccidiosis is taking a licking; new drugs and methods of application now keep it under excellent control. Broiler Growing 1:24, 42. Sept. 1950. 47.8 B782
- 4864 SPRATT, N. T., JR. Carbon dioxide requirements of the early chick embryo. (Abs.) Anat. Rec. 105: 583-584. Nov. 1949. 447.8 An1
- 4865 STUBBS, E. L. Staphylococci injections in chicken sarcoma. Pa. U. Sch. Vet. Med., Vet. Ext. Q. 120:15-23. Oct. 21, 1950. 41.9 P386
- 4866 SWALES, W. E. Enterohepatitis (blackhead) in turkeys. VII. Experiments on transmission of the disease. Canad. J. Compar. Med. 14:298-303. Ref. Sept. 1950. 41.8 C162  
Role of Heterakis gallinae in transmission.
- 4867 THOMPSON, J. J. Methods of controlling poultry parasites. New Zeal. J. Agr. 81:155, 157, 159, 161-162. Aug. 1950. 23 N48J
- 4868 U. S. BUR. OF ANIMAL INDUSTRY. Pullorum antigen producers and types of antigens. U. S. Bur. Anim. Indus. A. H. D. 136, 2 p. Oct. 1950. 1.9 An52Ah
- 4869 VIEGAS AURELIO, J. L. Espiroquetosis. Argentina. Min. de Agr. Almanaque 25:117-123. 1950. 9 Ag874  
In poultry.
- 4870 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Avian leukosis complex. Wis. Agr. Col. Ext. Stencil C. 318, 5 p.-folder. June 1950. 275.29 W75B
- 4871 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Laryngo-tracheitis of chickens. Wis. Agr. Col. Ext. Stencil C. 316, 5 p.-folder. June 1950. 275.29 W75B
- 4872 WOLFF, E. La différenciation sexuelle normale et le conditionnement hormonal. Des caractères sexuels somatiques précoces, tubercule génital et syring, chez l'embryon de canard. B. Biol. de la France et de la Belg. 84:119-193. Ref. Second Q. 1950. 473 B87
- 4873 ŻULIŃSKI, T., and ZADURA, J. Studies on the ulcero-suppurative inflammation of the stomach and intestines in fowls. (In Polish.) Med. Weter. 6:150-151. Mar. 1950. 41.8 M463  
English summary.

## Miscellaneous

- 4874 ANCESCHI, L. Rural poultry raising. (In Italian.) Avvenire Agr. 58:216-218. Sept. 1950. 16 Av9
- 4875 ANDERSON, E. E. Dry litter in the poultry house saves chickens from cold feet. N. Mex. Stockman 15(10):60. Oct. 1950. 49 N462
- 4876 ARCHES, M. D. Les dindons à la ferme. Monit. Agr. 3(125):4. Aug. 13, 1950. 14 M744
- 4877 ARMSTRONG, J. Big-time butter and egg man. Wash. Farmer 75:711, 719. Oct. 5, 1950. 6 R151  
Chiefly management of a poultry farm.
- 4878 BAGES TARRIDA, J. Necesidad del control de puesta de las gallinas. Reus Avic. 17:1-2. 1950. 47.8 R31
- 4879 BARRON, T., and LEIGH, J. N. The Daily Mail poultry book. Post-war ed., edited by W. M. Elkington. Stoke-on-Trent, Daily Mail P., 1950? 172 p. 47 B27D
- 4880 BLACKWELL, H. L. Poultry "sense". Farmers Wk. [London] 33(16):77. Oct. 20, 1950. 10 F2226
- 4881 BLACKWELL, H. L. Selecting pullets for [egg] production. Mod. Poultry Keeping 63:335. Oct. 11, 1950. 47.8 Eg3
- 4882 BLACKWELL, H. L. Why not "have a go"? A challenge to those who accuse the industry of inefficiency. Mod. Poultry Keeping 63:239. Sept. 13, 1950. 47.8 Eg3  
Great Britain.
- 4883 BONNET, L. Moving a duck farm. 3-4. Poultry [London] 107:270, 293. Oct. 3-10, 1950. 47.8 P869
- 4884 BONNET, L. Record keeping is time and money wasted. Poultry [London] 107:171. Aug. 29, 1950. 47.8 P869
- 4885 BOWIE, W. D. Improve breeding with culling. Checkerboard News 1950:1-3. Nov./Dec. 1950. 389.78 C41  
Poultry.
- 4886 BRIGHT, R. Give ducks a chance. Mod. Poultry Keeping 63:402. Oct. 25, 1950. 47.8 Eg3
- 4887 CANADA. DEPT. OF AGRICULTURE. LIVE-STOCK AND POULTRY DIV. Guide to culling hens. Canada. Dept. Agr. C. 187, 4 p. June 1950. 7 C16C



- 4888 CARPENTER, D. J. Not a poor second; the right kind of table goose could make a difference to the farmer's returns. *Poultry World* 87:197. Sept. 21, 1950. 47.8 P8682
- 4889 CARTANYA Y ALEU, P. Quiere Vd. ser avicultor? *X. Reus Avic.* 14:1-4. 1950. 47.8 R31
- 4890 CASTELLO CARRERAS, S. El arte de criar gallinas. Ed. 7, rev. and enl. Barcelona, AEDOS, 1949. 266 p. (Biblioteca Avícola Popular) 47 C272A
- 4891 CONNECTICUT UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. The thirty-first Connecticut home egg-laying contest, by R. E. Jones. Storrs, 1950. 5 p. 275.29 C76C
- 4892 DEERING, F. J. Hybrid chicks are here to lay more eggs per hen. *Farmer-Stockman* 53,1.e.63(10):46-47. Oct. 1950. 6 Ok45
- 4893 DREWRY, D. Keep ducks in lay. *Mod. Poultry Keeping* 63:243. Sept. 13, 1950. 47.8 Eg3
- 4894 DUTTLINGER, E. Was ist jetzt im hühnerhof zu tun? *Grüne* 78:1077-1078. Sept. 29, 1950. 17 Sch9
- 4895 FANGAUF, K. W. Federfressen und kannibalisierung. *Deut. Wirtgeflügelzucht.* 2:278-279. (Concl.) Aug. 26, 1950. 47.8 D483
- 4896 FERMOR, C. E. Good poultry keeping. London, Eng. U. Press, 1949. 253 p. (Teach Yourself Farming Books) 47 F38
- 4897 FOSTER, C. Keep layers indoors through the winter. *Poultry [London]* 107:294. Oct. 10, 1950. 47.8 P869
- 4898 FOSTER, C. My sympathies are with the show executives. *Poultry [London]* 107:234. Sept. 19, 1950. 47.8 P869
- 4899 FRASER, A. Changes in animal husbandry during the last twenty-one years. IV. *Poultry. Young Farmer* 18:235-236. Sept./Oct. 1950. 10 Y8
- 4900 GARRIDO, M. La selección es la base de la producción. *Valencia Avic.* 7(7):22. Aug. 1950. 47.8 V23
- 4901 GONZALEZ SILVA, E. J. Cría de pavos. Pampa Argentina 23(273):10. Aug. 1950. 9 P19
- 4902 GORA, G. Vazhnafá otrasí; opyt raboty perezodoi ptitshevodcheskoi fermi kolkhoza "20 let Oktábrá"; Petrovskogo ralona [An important branch; practices of the leading poultry farm of the "20 Let Oktábrá" Kolkhoz in the Petrovsk District]. *Stavropol' Kraevoe Knizhnoe Izd-vo*, 1950. 39 p. 47 G65
- 4903 GORDEUK, A. Management guide for broiler growers. *Broiler Growing* 1(3):18. Nov. 1950. 47.8 B782
- 4904 GREAVES, H. M. Methods of brooding chickens. *Agr. Gaz. N. S. Wales* 61:378-382. July 1, 1950. 23 N472
- 4905 GUHL, A. M. Social dominance and receptivity in the domestic fowl. *Physiol. Zool.* 23:361-366. Oct. 1950. 410 P56
- 4906 HALE, M. Does it add up to profit? *Poultry World* 87:161. Aug. 24, 1950. 47.8 P8682
- 4907 HALE, M. What the "earlies" do to-day. *Poultry World* 87:140. Aug. 17, 1950. 47.8 P8682
- 4908 HALE, M. Which way the turkey industry? *Poultry World* 87:219. Sept. 28, 1950. 47.8 P8682
- 4909 HALNAN, E. T. Poultry production in the Eastern Counties. *Brit. Soc. Anim. Prod. Proc.* (1949)12:54-62. 1950. 49.9 B772
- 4910 HANNAFORD, C. A. S. Deep litter system—it's old and it's nasty. *Poultry Field* 3(9):9. Sept. 14, 1950. 47.8 P8655
- 4911 HARDY, W. H. Brooding with infrared. *Everybodys Poultry Mag.* 55(9):13. Oct. 1950. 47.8 F213P
- 4912 HARO, M. Hay secretos en la avicultura? *Tierra [Mexico]* 5:477-479, 505. Sept. 1950. 8 T445
- 4913 HAWKEY, K. J. G. If I were starting again. *Poultry World* 87:141. (To be cont.) Aug. 17, 1950. 47.8 P8682
- 4914 HAYUTHA. On forced moulting. *Hassadeh* 30:584-585. July 1950. 26 H27
- 4915 HENDERSON, D. C. Better planned brooding means a fuller pocketbook; have pullets laying when egg prices are highest. *Poultry Tribune* 56(10):8. Nov. 1950. 47.8 P8642
- 4916 HENRY, G. L'aviculture au Maroc. *Rev. d'Elevage et de Méd. Vét. des Pays Trop.* 3:133-134. July/Sept. 1949. 41.8 R3262
- 4917 HERRERA DE LA TORRE, A. Breves apuntes sobre columbicultura práctica; el palomar de zuritas. *B. de Zootecnia* 6:237-244. July 1, 1950. 41.9 So16
- 4918 HICKS, J. S. First steps for novice fanciers. I. *Poultry [London]* 107:275. Oct. 3, 1950. 47.8 P869
- 4919 HOOGENDOORN, J. As the chickens grow older! (In Dutch.) *Pluimveeteelt* 3(11):1-2. May 12, 1950. 47.8 P722
- 4920 HOOGENDOORN, J. A disadvantage of sexing. (In Dutch.) *Pels en Pluim* 4(24):14. Dec. 2, 1949. 47.8 P36
- 4921 HOOGENDOORN, J. Effects of external conditions on the course of the hatching process. (In Dutch.) *Pluimveeteelt* 4,1.e.3(3):8-9. Feb. 3, 1950. 47.8 P722
- 4922 HOWES, H. Brooding plans for your early chicks. *Poultry [London]* 107:271. Oct. 3, 1950. 47.8 P869
- 4923 HUTT, F. B. Short cuts to progeny testing. (Extr.) *Mod. Poultry Keeping* 63:268-270. Sept. 20, 1950. 47.8 Eg3
- 4924 IOFE, N. SH. Vyrashchivanie inkubatornykh tsyplyat i utiat v kolkhozakh [Raising incubator chicks and ducks on collective farms]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 31 p. 47 Io2V
- 4925 JENNINGS, J. A profitable battery plant must have—. *Mod. Poultry Keeping* 63:403. Oct. 25, 1950. 47.8 Eg3
- 4926 JULL, M. A. Select next year's breeders; market turkeys as fast as they are finished but save best birds for breeders. *South. Planter* 111(10):22-23. Oct. 1950. 6 So89
- 4927 JUSTO, E. A qué hora deben efectuarse las sueltas de vuelo de largas distancias? *Valencia Avic.* 7(7):27-28. Aug. 1950. 47.8 V23
- 4928 KEISSEN, L. P. Natural hatching. (In Dutch.) *Pels en Pluim* 5(5):4. Mar. 10, 1950. 47.8 P36
- 4929 KENNARD, D. C., and CHAMBERLIN, V. D. Give built-up litter a chance to function. *Ohio Farm & Home Res. [Ohio Sta.]* 35:53. July/Aug. 1950. 100 Oh38
- 4930 KIDD, E. E. Hatcheries—to-day and tomorrow. *Poultry Field* 3(12):4, 6-7. Oct. 26, 1950. 47.8 P8655
- 4931 KNOWLES, T. How to improve our poultry flocks. *Mod. Poultry Keeping* 63:244-245. Sept. 13, 1950. 47.8 Eg3
- 4932 KNOWLES, T. E. Lancashire poultry keeping. (Sum.) *Farmers' J. (n.s.)* 1(12):28-30. Oct. 1950. 10 F2234
- 4933 KOROGOD, T. T. Tsesarka State Farm. (In Russian.) *Sofsiálist. Zhivotn.* 12(4):83-87. Apr. 1950. 49 So71
- 4934 KUIPER, J. W. Artificial hatching of chicks. (In Dutch.) *Pels en Pluim* 5(7):11;(8):2-3. Apr. 7-21, 1950. 47.8 P36
- 4935 KUZ'MIN, V., and OSKOTSKAIA, S. Microflora of hatching egg before placement into incubator. (In Russian.) *Sofsiálist. Zhivotn.* 12(4):91-92. Apr. 1950. 49 So71
- 4936 LUCAS, W. C., TOMHAVE, A. E., and SEEGER, K. C. Processed peanut hulls compared with regular peanut hulls and sawdust as litter for broiler production. *Del. Agr. Expt. Sta. Pam.* 35, 2 p. Jan. 1950. 100 D37H
- 4937 MCARDLE, A. A. Parafield Official Egg Laying Competition, 1949-50. *So. Austral. Dep't. Agr. J.* 53(12,sup.), 15 p. July 1950. 23 So84
- 4938 MONCRIEF, T. E. Is the small flock on the way out? *Everybodys Poultry Mag.* 55(10):14-15. Nov. 1950. 47.8 F213P
- 4939 MOORE, A. C. Show business is good fun—but that's about all. *Poultry [London]* 107:168. Aug. 29, 1950. 47.8 P869
- 4940 MOORE, A. C. Wales keeps its poultry on general farms. *Poultry [London]* 107:248. Sept. 26, 1950. 47.8 P869
- 4941 MOORE, A. C. We must be active against carrion crows and all other profit-stealers. *Poultry [London]* 107:228. Sept. 19, 1950. 47.8 P869
- Other birds.



- 4942 MORTENSEN, L. Chick sexing—developments and future possibilities. *Everybodys Poultry Mag.* 55(10): 30-31. Nov.1950. 47.8 F213P
- 4943 MULFORD, T. Chickens thrive on built-up litter. *Country Gent.* 120(10):22,92-93. Oct.1950. 6 C833
- 4944 NORTH, M. O. California raises 'em differently. *Broiler Growing* 1(3):12,39-41. Nov.1950. 47.8 B782
- 4945 PALAFOX, A. L. Poultry management studies. II. Wire-floor laying pens vs. individual cages for laying chickens. *Hawaii. Agr. Expt. Sta. C.* 32,11 p. Sept.1950. 100 H313
- 4946 PALANTI, G. B. Recent improvements in poultry raising. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 68:8. Oct.7,1950. 281.8 Ag3
- 4947 PASSEBON, L. L'organisation rationnelle de l'élevage avicole. *Vie à la Campagne* 39:300-302. Sept. 1950. 80 V67
- 4948 PEARCE-GERVIS, L. Complete poultry keeper and farmer. London, Cassell, 1950. 320 p. 47 P314
- 4949 PEELE, F. E. We must produce smaller turkeys for the modern oven. *Mod. Poultry Keeping* 63: 397. Oct.25,1950. 47.8 Eg3
- 4950 PEREZ, J. Selección de gallinas ponedoras. *Pampa Argentina* 23(273):4. Aug.1950. 9 P19
- 4951 PETERSEN, N. Jahresleistung: 336 eier von einem huhn. *Kleintierzüchter Tierbörse* 4(36):1. July 22, 1950. 49 K672
- 4952 PICKETT, J. Many variations in Modesto poultry methods. *Calif. Farmer, North. Ed.* 193:220-221. Sept.9,1950. 6 C126
- 4953 PLANK, G. M. VAN DER. Is the clock to be set back? (In Dutch.) *Pluimveeteelt* 3(10):1. Apr.28, 1950. 47.8 P722
- Poultry laying contests.
- 4954 PONSIGNON, A. Faut-il subir, provoquer ou accentuer la mue? *Vie à la Campagne* 39:236. July 1950. 80 V67
- 4955 POULTRY ASSOCIATION OF GT. BRIT. Report of the Council, 34, 1950. London, 1950. 23 p. 47.9 P864
- 4956 POWELL-OWEN, W. Winter eggs in view. *Poultry World* 87:196. Sept.21,1950. 47.8 P8682
- 4957 RAWSON, A. Does importing them make them better? *Amer. Pigeon J.* 39:297. Oct.1950. 47.8 Am35
- Selection.
- 4958 REED, F. D. Saving labor on the poultry farm. *World's Poultry Sci. J.* 6:207-209. July/Sept.1950. 47.8 W89
- 4959 RODRIGUEZ ESPINOZA, L. Consideraciones generales sobre avicultura. *Agr. Costarricense* 8:313-317,319-321,323-325,327. July/Aug.1950. 8 Ag895
- 4960 RÖMER, R. R. Obstbau und geflügelhaltung. *Geflügelhof* 13:575-576. Sept.1,1950. 47.8 G276
- 4961 ROZZI, U. Poultry raising in enclosures. (In Italian.) *Avvenire Agr.* 58:156-159. July 1950. 16 Av9
- 4962 SCANLAN, J. J. Hoosier hatcheries associate. *News Farmer Coop.* 17(7):10,14-15. Oct.1950. 166.2 N47
- Indiana Poultry Breeders, Inc.
- 4963 SERRE, L. Le dilemme de la grande ponte; ou faites du nid-trappe, ou ne faites pas de reproduction. *Agr. Prat.* 114:410-411. Sept.1950. 14 J82
- 4964 SHAW, J. Accuracy in pedigree work. *Poultry World* 87:218. Sept.28,1950. 47.8 P8682
- 4965 SHILKOV, A. A. Poultry farm of Voskhod Sotsializma Collective Farm. (In Russian.) *Sotsialist. Zhivotn.* 12(4):88-90. Apr.1950. 49 So71
- 4966 SOLODKII, M. On hatching possibilities and coefficient of incubator utilization. (In Russian.) *Sovet. Zootekh.* 4(6):90-93. June 1950. 49 So822
- 4967 STAFFE, A. Weitere untersuchungen über die wirkung des lichtschocks auf die legeleistung. *Geflügelhof* 13:510-514. Ref. Aug.4,1950. 47.8 G276
- 4968 STORCH, W. VON. Misshandelte zuchthennen. *Hannoversche Land- u. Forstwirt. Ztg.* 103:393-394. Apr.15,1950. 18 H194
- 4969 STORCH, W. VON. Was ist anders? Ratschläge zur putenaufzucht. *Hannoversche Land- u. Forstwirt. Ztg.* 103:488. May 13,1950. 18 H194
- 4970 SUTTON, J. Some impressions of the U. S. poultry industry. *Mod. Poultry Keeping* 63:291. Sept.27, 1950. 47.8 Eg3
- 4971 SUWAN, L. Poultry industry in Thailand. *World's Poultry Sci. J.* 6:188-191. July/Sept.1950. 47.8 W89
- 4972 TRET'IAKOV, N. P. Experiment in biological checking [of eggs] at leading hatcheries. (In Russian.) *Sovet. Zootekh.* 4(6):86-88. June 1950. 49 So822
- 4973 TURNILL, L. C. Poultry in Kent. *Poultry [London]* 107:290-292. Oct.10,1950. 47.8 P869
- 4974 U. S. BUR. OF ANIMAL INDUSTRY. ANIMAL HUSBANDRY DIV. Table for determining the duration of the 300 day trapnest year. U. S. Bur. Anim. Indus. A.H.D. 134,2 p. Aug.1950. 1.9 An52Ah
- 4975 VAN DER MERWE, J. A. Profitable pullets. (In Afrikaans.) *S. A. P. A. Poultry B.* 14(155):9-11. Aug.1950. 47.8 So89
- 4976 VAN SANT, W. R. Better poultry in Arizona; National Poultry Improvement Plan is making steady progress in State. *Prog. Agr. Ariz.* 2(3):9. Oct./Dec. 1950. 6 P9452
- 4977 VERVENNE, B. VAN A. Care of chickens. (In Dutch.) *Pels en Pluim* 5(9):1-2. May 5,1950. 47.8 P36
- 4978 VERVENNE, B. VAN A. Hatching chicken eggs. (In Dutch.) *Pluimveeteelt* 4,1.e.3(3):3-4. Feb.3, 1950. 47.8 P722
- 4979 VIEGAS AURELIO, J. L. Higiene y profilaxis del gallinero. *Asoc. Rur. del Uruguay Rev.* 77(7):79-81. July 1950. 9.9 As5
- Poultry care and disease control.
- 4980 WATANABÉ, J. Poultry husbandry in relation to progeny testing. *Poultry Field* 3(12):16-17,19. Oct.26,1950. 47.8 P8655
- 4981 WATANABÉ, Y. Planning a balanced progeny test. *Mod. Poultry Keeping* 63:311. Oct.4,1950. 47.8 Eg3
- 4982 WATANABÉ, Y. Poultry keeping for the general farmer. *Poultry Field* 3(8):4-5. Aug.31,1950. 47.8 P8655
- 4983 WEAVER, L. E. Help your bewildered started pullets. *Poultry Indus. [Boston]* 54(4):9. Oct.1950. 47.8 N44
- 4984 WEIDNER, C. H. A new era of trapnesting. *Everybodys Poultry Mag.* 55(9):11,28. Oct.1950. 47.8 F213P
- 4985 WOOD, E. Farming is more than just a business. *Everybodys Poultry Mag.* 55(9):14,43. Oct.1950. 47.8 F213P
- Poultry farming.
- 4986 WU, B. Hi! Come to China with me! *World's Poultry Sci. J.* 6:197-200. July/Sept.1950. 47.8 W89
- Poultry and poultry folklore.
- 4987 ZIMINA, A. S. Practices at the hatchery of Orekhovo-Zuev poultry raising state farm. (In Russian.) *Sovet. Zootekh.* 4(6):89-90. June 1950. 49 So822
- Chiefly on duck eggs for hatching.

## RABBITS

### Breeds and Breeding

- 4988 BRADSHAW, R. P. Angoras—a farm animal? *Angora Rabbit Mag.* 5(12):1. Sept.1950. 40.28 An42
- 4989 FLEMING, G. Breeding for type and meat in New Zealand. *Small Stock Mag.* 34(10):36-37. Oct.1950. 48.8 P442
- 4990 GRIUNBERG, O. Razvodite krolikov [Rabbit breeding]. Moskva, 1950. 30 p. 40.2 G882
- 4991 HOLTZINGER, J. E. Reds are fancy. *Small Stock Mag.* 34(10):37. Oct.1950. 48.8 P442
- New Zealand Red rabbits.
- 4992 KENNEDY, L. How to cull Chinchillas. *Amer. Rabbit J.* 20:131. Sept.1950. 40.28 Am3
- 4993 KROBOTH, C. Culling New Zealand. *Small Stock Mag.* 34(10):33. Oct.1950. 48.8 P442
- 4994 LECOMTE, J. Pour réussir dans l'élevage du lapin Angora. *Paysan Franç.* 26(393):11. Sept.1950. 14 P29
- 4995 MATHER, W. B. Artificial insemination in the rabbit. *Queensland. U. Dept. Biol. Papers* 2(18),5 p. Mar.13,1950. 442.9 Q33
- 4996 NORMAND, K. Texas style. *Angora Rabbit Mag.* 6:2,10. Oct.1950. 40.28 An42
- 4997 PIEGSA, E. Das rote neuseeländer-kaninchen. *Kleintierzüchter Tierbörse* 4(41):3. Aug.26,1950. 49 K672



- 4998 SCARBOROUGH, H. J. Thinks New Zealand White best breed strictly from economic standpoint. *Small Stock Mag.* 34(10):38. Oct.1950. 48.8 P442
- 4999 SIGMUND, P. N. Raising Angora rabbits (the Angora doe). *Fur-Fish-Game* 90(10):36-37. Oct. 1950. 410 F962
- 5000 SOKOLOVSKAIA, I. I. Relation of sperm viability to origin of sires. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(6):10-13. 1950. 20 Ak1  
Experiments with rabbits.
- 5001 TEGTMEYER, M. Entwicklung, aufbau und stand der Angorakaninchen-leistungszucht. *Kühn-Arch.* 62:341-493. Ref. 1949. 105.8 H15Ku
- 5002 WEIDNER, K. Die abgrenzung der farbenfelder beim Japaner. *Kleintierzüchter Tierbörse* 4(36):3. July 22, 1950. 49 K672

### Veterinary Medicine

- 5003 BAHOV, J. Recherches histo-pathologiques sur la rage expérimentale chez les lapins et les cobayes. *B. d'Histol. Appl. et de Tech. Micros.* 27:112-115. July/Aug.1950. 440.8 B87
- 5004 DŁUŻEWSKI, S., and others. Changes in the blood picture of rabbits after the application of the novocain blockade. (In Polish.) *Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. DD* 5:107-138. Ref. 1950. 512 L96Ad
- S. Patyra, M. Urban, and R. Kargol, joint authors. English summary.
- 5005 GIROUD, P., and WEI, W. P. Contribution à l'étude morphologique des corps homogènes constatés dans le poumon de lapin infecté de typhus épidémique. *Soc. de Biol. Compt. Rend.* 144:794-795. June 1950. 442.9 P21
- 5006 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Diseases of the rabbit. *Gt. Brit. Min. Agr. & Fisheries. Anim. Health L.* 39,11 p. Aug.1950. 41.9 G792A
- 5007 HÄGGQVIST, G., and BANE, A. Studies in triploid rabbits produced by colchicine. *Hereditas* 34:329-334. 1950. 442.8 H42
- 5008 JOST, A. Sur le controle hormonal de la différenciation sexuelle de l'embryon de lapin. *Cong. Internatl. de Zool. Compt. Rend.* (1948)13:169-170. 1949. 410.9 Im8
- 5009 KARISCH. Zur diskussion über die kokzidiose der kaninchen. *Thür. Kleintierzüchter* 4:194. July 20, 1950. 49 T42
- 5010 MATHER, W. B. Induced ovulation in the rabbit. *Queensland. U. Dept. Biol. Papers* 2(17),7 p. Ref. Mar.13,1950. 442.9 Q33
- 5011 MATHER, W. B. Surgery of the rabbit embryo "in utero." *Queensland. U. Dept. Biol. Papers* 2(16),6 p. Mar.13,1950. 442.9 Q33
- 5012 MATHER, W. B. The technique of rabbit blastoderm culture. *Queensland. U. Dept. Biol. Papers* 2(15), 8 p. Ref. Mar.13,1950. 442.9 Q33
- 5013 MELANDER, Y. Chromosome behaviour of a triploid adult rabbit as produced by Häggqvist and Bane after colchicine treatment. *Hereditas* 34:335-341. Ref. 1950. 442.8 H42
- 5014 MONTAGNA, W. The brown inguinal glands of the rabbit. *Amer. J. Anat.* 87:213-237. Ref. Sept.1950. 447.8 Am32
- 5015 PINO, N. On the use of being able to determine the age of rabbits by means of the teeth. (In Italian.) *Zootec. e Vet.* 5:472-473. June 1950. 41.8 Z7
- 5016 SCHEFF, G. J., and PFEIFER-SCHEFF, I. M. The cellular and immunological reactions in rabbits infected with *Histoplasma capsulatum*. *Amer. Rev. Tuberc.* 62:374-389. Ref. Oct.1950. 448.8 Am32
- 5017 TEMPLETON, G. S. Facts about the rectal gland in rabbits. *Amer. Rabbit J.* 20:147. Oct.1950. 40.28 Am3
- 5018 UGORSKI, L. A contribution to the control of coccidiosis of rabbits. (In Polish.) *Med. Weter.* 6:299-300. May 1950. 41.8 M463
- 5019 WEBER, A. Dégénérescence et régénération périodiques des terminaisons synaptiques dans la moelle épinière du lapin adulte. *Soc. de Biol. Compt. Rend.* 144:740-741. June 1950. 442.9 P21

### Miscellaneous

- 5020 BARYSHNIKOV, I. A., ZAKS, M. G., and PAVLOV, E. F. Effect of maternal organism on coloration of wool in rabbit progeny under conditions of homotransplantation of ovaries. (In Russian.) *Akad. Nauk SSSR. Dok.* 72:1123-1126. Ref. June 21,1950. 511 P444A
- 5021 BRYANT, J. Granny talk. *Natl. Rabbit Raiser & Poultry Grower* 17(12):5,7,20. Aug.1950. 40.28 R11  
Fallacies and truths on raising rabbits.
- 5022 DUBBELL, R. W. Hopping to heaven with a rabbit. *Small Stock Mag.* 34(10):20-21. Oct.1950. 48.8 P442  
Raising rabbits as an occupation.
- 5023 FEHR, J. C. What have the various milling companies done to promote and increase rabbit production in the United States during the past 25 years? *Amer. Small Stock Farmer* 34(12):4-5. Sept.1950. 48.8 J82
- 5024 HENISCH, G. Gebt euren kaninchen auslauf! *Osterr. Kleintierzüchter* 1950:807-808. Aug.1950. 49 Os7
- 5025 TEMPLETON, G. S. Sexing very young rabbits. *Amer. Rabbit J.* 20:147. Oct.1950. 40.28 Am3
- 5026 WILSON, W. K. More rabbits, less work. *Countryman [Burford]* 42:149. Autumn 1950. 281.28 C832
- 5027 YORKE, C. Damage factors in the rabbitry. *Angora Rabbit Mag.* 6:3. Oct.1950. 40.28 An42  
Dogs, weasels, and other predators.

### SHEEP AND GOATS

#### Breeds and Breeding

- 5028 AUSTRALIAN SOCIETY OF BREEDERS OF BRITISH SHEEP. Flock book for British breeds of sheep in Australia, v. 42. Melbourne, 1950. 2 v. 45.9 Au72  
Sect.1, Histories of Lincoln, English Leicester, Border Leicester, Romney Marsh, and Cheviot flocks; Sect.2, Histories of Southdown, Shropshire, Suffolk, Dorset Horn, Ryeland, Hampshire Down, and Dorset Down flocks.
- 5029 BALMACEDA, R. H. La cabra Anglo-Nubian. *Argentina. Min. de Agr. Almanaque* 25:73-75. 1950. 9 Ag874
- 5030 BECKER. Die schafzucht im gebiet Weser-Ems. *Landwirtsch. Weser-Ems* 36:737. Sept.6,1950. 18 L2345
- 5031 BRUGMAN, H. H., LARGENT, R. D., and KOCH, C. R. Progressive changes in wool blindness in Hampshire sheep. *Natl. Wool Grower* 40(10):16-17. Oct. 1950. 45.8 N21N
- 5032 CALVO, C. A. El Lincoln: lana, carne y pieles. *Argentina. Min. de Agr. Almanaque* 25:247-251. 1950. 9 Ag874
- 5033 CHANG, T. K. Skeletal growth in Ancon sheep. *Storrs? Conn., 1949.* 81 p. Ref. 444 C36
- 5034 DAVIDSON, L. Hope for two lamb crops a year; magic hormones may soon give flock owners extra profits as 50 to 75 per cent of test ewes have fall lambs. *Country Gent.* 120(10):28,122-123. Oct.1950. 6 C833
- 5035 FILLAT, A. Factores que condicionan los resultados de la inseminación artificial en ovinos. *Asoc. de Ingen. Agrón. Rev.* 21(86/87):17-31. Sept./Dec.1949. 290.9 As73
- 5036 FLOWER, A., VAN HORN, J. L., and HUGHES, G. C. 1950 ram progeny test. *Mont. Wool Grower* 24(11):28-29. Nov.1950. 45.8 M762
- 5037 FRASER, A. God helps those. *Farmers Wk. [London]* 33(15):59. Oct.13,1950. 10 F2226  
Breeding disease-resistant sheep.
- 5038 FRIGERIO, J. C. Un procedimiento sencillo para descubrir el celo de las ovejas. *Mundo Agr.* 2(15):88-89. Aug.1950. 9 M92
- 5039 GOOT, H. Studies on some New Zealand Romney Marsh stud-flocks. III. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 30:330-344. Ref. Apr.1949. 514 N48A
- 5040 GUILLERMO, L. La chèvre Angora à Madagascar. *Rev. d'Elevage et de Méd. Vét. des Pays Trop.* 3:123-132. July/Sept.1949. 41.8 R3262
- 5041 GUMPENBERG, FREIHERR VON. Gedanken zur deutschen schafzucht, angeregt durch die ausstellung der DLG in Frankfurt 1950. *Tierzüchter* 2:425-426. Aug.20,1950. 49 T445



5042 HAMPSHIRE DOWN SHEEP BREEDERS' ASSOCIATION. The Hampshire Down flock book, v. 61. Salisbury, 1950. 152 p. 45.9 H18F

5043 HUGO, W. S. Dorper association decides on breed principles. *Farmer's Wk.* [Bloemfontein] 80:53. Sept. 20, 1950. 24 F225

Dorper Sheep Association of South Africa.

5044 JONG, S. DE. Blood lines in goat breeding in South-Holland. (In Dutch.) *Geitenhouder* 13(6):2-3. (Concl.) June 1950. 40.18 G27

5045 KAMSTRA, L. Possibilities and hints on keeping the goat breeding associations up to the mark. (In Dutch.) *Geitenhouder* 13(7):1-2. July 1950. 40.18 G27

5046 KENT OR ROMNEY MARSH SHEEP-BREEDERS' ASSOCIATION. The flock book of the Kent or Romney Marsh sheep, v. 56. London, 1950. 256 p. 45.9 K41

5047 LANDAUER, W. The Massachusetts Ancon sheep; a supplementary note. *J. Hered.* 41:144. June 1950. 442.8 Am3

5048 LOGINOVA, N. V., and LOPYRIN, A. I. Impregnation of sheep during various insemination periods. (In Russian.) *Sovet. Zootekh.* 4(5):50-59. Ref. Aug. 1949. 49 So822

5049 LOPEZ ARIAS, A. La raza Lincoln en la producción lanera argentina. Argentina. *Dir. de Inform. P. Misc.* 312, 10 p. 1949. 9 P943

5050 PERRY, R. The remarkable Blackface sheep. *Farmer & Stock-Breeder* 64:2588. Sept. 19, 1950. 10 F228

5051 SÆLAND, J. Sheep breeding in Norway; a short survey. *Blackface Sheep* 3:30, 32, 34. Feb. 1950. 45.8 B56

5052 SHEEP breed twice a year in hormone test. *Natl. Wool Grower* 40(10):12-13, 37. Oct. 1950. 45.8 N21N

5053 SLEFANIN, G. I. Experiment in controlled rearing of sheep of the Askaniya breed. (In Russian.) *Sovet. Zootekh.* 7(7):39-53. July 1950. 41.8 So822

5054 SMIRNOV, L. F., and GOLOVINA, V. I. Experiment in planning the development of lambs of the Romanovsk breed. (In Russian.) *Sovet. Zootekh.* 4(6):26-34. June 1950. 49 So822

Weight and measurement.

5055 SMITH, C. S. The subtler qualities. *Farmers Wk.* [London] 33(11):55. Sept. 15, 1950. 10 F2226

Sheep breeding in Wales and aims of the Arvon Mountain Sheep Society.

5056 SPAIN. JUNTA PROVINCIAL DE FOMENTO PECUARIO DE CUIDAD REAL. Memoria del I Concurso de Ganado Lanar Merino, Almodovar del Campo, Mayo 1949. *Cuidad Real*, 1949. 56 p. 45 Sp12

5057 STAHN, E. 30 Jahre Landesverband Sächsischer Ziegenzüchter. *Thür. Kleintierzüchter* 4:217. Aug. 10, 1950. 49 T42

5058 SUDRE, J. L'élevage du mouton Texel. *Potasse* 24:145-147. Oct. 1950. 57.8 P84

5059 VAN RENSBURG, P. J. J. German Merino mutton sheep at Elsenburg; breeding and selection for early maturity and other good characters in Merinos. *Farming So. Africa* 25:217-221, 225. July 1950. 24 So842

5060 WILSON, J. M. A survey of the breed. *Blackface Sheep* 3:22, 24, 26. Feb. 1950. 45.8 B56

5061 ZEMIRI, H. The mating season of sheep. *Hassadeh* 30:585-587. July 1950. 26 H27

In Hebrew.

#### Feeds and Feeding

5062 BOLIN, F. M., EVELETH, D. F., and BOLIN, D. W. The use of water miscible vitamin A for lambs. *Vet. Med.* 45:451-452. Nov. 1950. 41.8 M69

5063 COOP, T. E. The feeding of breeding ewes. *Canterbury Chamber Com. Agr. B.* 253, 4 p. Aug. 1950. 23 C162

5064 HUTCHINGS, S. S. Forecasting forage on the winter range. *Natl. Wool Grower* 40(10):14, 36. Oct. 1950. 45.8 N21N

5065 LEE, H. J. The occurrence and correction of cobalt and copper deficiency affecting sheep in South Australia. *Austral. Vet. J.* 26:152-159. Ref. July 1950. 41.8 Au72

5066 ORCUTT, E. P. Sheep nutrition. *Feedstuffs* 22(38):56. Sept. 23, 1950. 286.81 F322

5067 POPE, A. L. What are the facts on flushing ewes? *Sheepman* 21:219. Nov. 1950. 45.8 Sh32

5068 SMITH, A. D., and GAUFIN, D. M. The use of movable paddocks in the study of forage preferences of mule deer and livestock [sheep]. No. Amer. Wildlife Conf. Trans. 15:512-518. 1950. 412.9 N814

Includes discussion.

5069 SMITH, W. S. The occurrence and correction of cobalt and copper deficiency affecting sheep in South Australia. *Austral. Vet. J.* 26:159-162. July 1950. 41.8 Au72

Includes discussion.

5070 VANHORN, J. L., BURKITT, W. H., and WILSON, F. S. Nutritional requirements of ewes wintered under range conditions. *Mont. Wool Grower* 24(10):10. Oct. 1950. 45.8 M762

#### Veterinary Medicine

5071 BALDELLI, B. Q fever in sheep; epizootological and experimental observations on the occasion of the epidemic of human Q fever at Chiaravalle. (In Italian.) *Zooprofilassi* 5:369-372, 375-383. Ref. Aug. 1950. 41.8 Z72

English summary.

5072 CALISTI, V. Abortion from synthetic estrogens in sheep. (In Italian.) *Arch. Vet. Ital.* 1:15-25. Ref. Mar. 31, 1950. 41.8 Ar25

English summary.

5073 CECCARELLI, A., and FONTANELLI, E. Complement fixation in the diagnosis of contagious agalactia in sheep and goats. (In Italian.) *Zooprofilassi* 5:409-412, 415-418. Sept. 1950. 41.8 Z72

English summary.

5074 CHOW, T. I. The histopathology of contagious ecthyma in sheep. II. The propagation of the etiological agent (virus) in the chick embryo. *Mich. U. Microfilm Abs.* 10(3):3-4. 1950. 241.8 M58

5075 COLLADO, L. Tratamiento de la tenia en los ovinos. Argentina. *Min. de Agr. Almanaque* 25:116. 1950. 9 Ag874

5076 DESCLIN, L., and DERIVAUX, J. Action galactopoiétique de la thyroxine et des protéines iodées chez des chevrettes mises en lactation par les oestrogènes. *Soc. de Biol. Compt. Rend.* 144:996-998. July 1950. 442.9 P21

5077 EDWARDSON, J. Animal health. III. The health of sheep. *Young Farmer* 18:237-240. Sept./Oct. 1950. 10 Y8

5078 ENGELHARD, J. Organisation de la lutte contre les maladies du mouton. *Rustica* 23:753, 774. Sept. 3-10, 1950. 14 R92

5079 EWER, T. K. Rachitogenicity of green oats. *Nature* [London] 166:732-733. Oct. 28, 1950. 472 N21

In sheep.

5080 EWER, T. K. Rickets in sheep: field trials in East Anglia. *Vet. Rec.* 62:603-606. Ref. Oct. 14, 1950. 41.8 V641

5081 FRANKLIN, M. C. The influence of diet on dental development in the sheep. *Austral. Commonwealth Sci. & Indus. Res. Organ. B.* 252, 34 p. Ref. 1950. 514 Au72B

5082 FROELICHMAN, S. Dipping sheep with Hexalon against sarcoptic mange. (In Hebrew.) *Refuah Vet.* 7:15-16. Apr. 1950. 41.8 R25

English summary, p. 35.

5083 GASTAMBEDE-ODIER, M. Remarques sur l'agglutination des globules rouges de mouton par le virus de la poliomyélite, souche MM. *Inst. Pasteur Ann.* 79:197-200. Aug. 1950. 448.3 An75

5084 GOOT, H. A note on mortality and fertility in a New Zealand Romney Marsh stud-flock in 1938—the season of the facial eczema outbreak. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 30:329-330. Apr. 1949. 514 N48A

5085 GRAY, F. V., and PILGRIM, A. F. Fermentation in the rumen of the sheep. *Nature* [London] 166:478. Sept. 16, 1950. 472 N21

5086 HANSEN, M. F., and others. Effects of a pure infection of the tapeworm *Moniezia expansa* on lambs. *Ky. Agr. Expt. Sta. B.* 556, 11 p. Aug. 1950. 100 K41

A. C. Todd, G. W. Kelley, and M. Cawein, joint authors. 5087 HOOPS, O. W. A. Bloodless castration. (In Afrikaans.) *Landbouweekblad* 32(1627):45. Sept. 20, 1950. 24 L232

Sheep.



- 5088 JAHNCKE. Ziegenkrankheiten und deren bekämpfung. Thür. Kleintierzüchter 4:206-208. July 31, 1950. 49 T42
- 5089 JELLISON, W. L., and KOHLS, G. M. Persistence of agglutinins against *Pasteurella tularensis* in serums of naturally infected sheep. Amer. Vet. Med. Assoc. J. 117:405-408. Nov. 1950. 41.8 Am3  
Transmission by *Dermacentor andersoni*.
- 5090 KARUNAIRATNAM, M. C., and LEVY, G. A. A glucuronide-decomposing enzyme in the rumen of the sheep. Biochem. J. 47:xxx. Sept. 1950. 382 B52
- 5091 KATES, K. C. Survival on pasture of free-living stages of some common gastrointestinal nematodes of sheep. Helminthol. Soc. Wash. Proc. 17:39-58. Ref. July 1950. 436.9 H36
- 5092 LITTLEJOHN, A. I. Enzootic abortion in ewes—an investigation into the naturally occurring disease. Vet. Rec. 62:571-577. Sept. 30, 1950. 41.8 V641 Scotland.
- 5093 LITTLEJOHN, A. I. Tick-borne fever as a cause of abortion in sheep. Vet. Rec. 62:577-579. Sept. 30, 1950. 41.8 V641
- 5094 MANJREKAR, S. L. Penicillin in *Pasteurella* infection in sheep. Indian Vet. J. 27:101-102. Sept. 1950. 41.8 In2
- 5095 MANJREKAR, S. L. Trypanosomiasis in goats—a preliminary note. Indian Vet. J. 27:103-104. Sept. 1950. 41.8 In2  
Disease occurring in Nasik District due to *Trypanosoma evansi*.
- 5096 MAQSOOD, M. Effects of hypo-mild hyperthyroidism on fleece-growth in sheep. Nature [London] 166:647. Oct. 14, 1950. 472 N21
- 5097 MORGAN, D. O., PARNELL, I. W., and RAYSKI, C. Further observations on the seasonal variation in worm egg output in Scottish hill sheep. J. Helminthol. 24:101-122. Ref. 1950. 436.8 J82
- 5098 OLSEN, O. W., and WADE, L. L. Nematocidal efficacy of hexachloroethane-bentonite suspension in sheep and goats. No. Amer. Vet. 31:740-742. Nov. 1950. 41.8 N812  
Control of *Haemonchus contortus*, *Trichostrongylus axei*, *Ostertagia ostertagi*, etc.
- 5099 OTHAIX, W. J. Zonas de saneamiento de sarna ovina. Uruguay. Min. de Ganad. y Agr. B. Inform. 330: 15. July 20, 1950. 9.9 G15B
- 5100 PALLASKE. Zur pathologischen anatomie der tuberkulose der ziegen. Monatsh. f. Vetmed. 5:216-221. Aug. 1950. 41.8 M742
- 5101 PEGREFFI, G. New problems in disease prevention among sheep. (In Italian.) Clin. Vet. 73:225-228. Aug. 1950. 41.8 C61  
English summary.
- 5102 RATHMAN, G. A. Sheep scab. Kans. Stockman 35:10. Nov. 1950. 49 K134  
Psoroptic mange.
- 5103 RIZVI, S. W. H. Transmission of *Rickettsia* [i.e. *Coleiella*] conjunctivae to goats. Amer. Vet. Med. Assoc. J. 117:409-411. Nov. 1950. 41.8 Am3
- 5104 SACCO, P. A serious disease of sheep: strongylosis. (In Italian.) Glor. di Agr. 60:278. Sept. 3, 1950. 16 It1G
- 5105 SCHAPER, G. Erfahrungen mit der cyren-A-implantation bei ziegen. Monatsh. f. Vetmed. 5:213-216. Aug. 1950. 41.8 M742  
Stimulation of lactation.
- 5106 SCHULZE, W., and KRAHNERT, R. Ein fall von "igelit"—vergiftung bei einer ziege. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:138-139. July 1950. 41.8 B45
- 5107 SINGH, B. Sarcoptic mange in goats. Indian Vet. J. 27:128-129. Sept. 1950. 41.8 In2
- 5108 SPLITTER, E. J. Neosphenamine in acute eperythrozoonosis of swine. Amer. Vet. Med. Assoc. J. 117:371-373. Nov. 1950. 41.8 Am3
- 5109 TALLARICO, G. The goat, secreting agent par excellence. (In Italian.) Mondo del Latte 1950:391-392, 395-396. Aug. 1950. 44.8 M74  
English summary.  
Food utilization and lactation.
- 5110 TETLEY, J. H. The differentiation of the eggs of *Haemonchus contortus* and *Ostertagia* species of the sheep and a note on the relative generic egg-laying rates. Parasitology 40:273-275. Oct. 1950. 44.8 P21
- 5111 WERNER, F. Die ansteckende klauenentzündung der schafe (moderhinke). Kärntner Bauer 100:273-274. Aug. 10, 1950. 19 K14
- 5112 ŻARNOWSKI, E. Contribution à la connaissance des nématodes parasites du tractus intestinal chez les brebis en Pologne. (In Polish.) Fragmenta Faunistica 6:35-93. Ref. Oct. 20, 1949. 410.9 W26F  
French summary.
- 5113 ZBOŘIL, J. Enzootic bronchopneumonia in sheep. (In Czech.) Časopis Českoslov. Vet. 5:346-348. Aug. 10, 1950. 41.8 C27

## Miscellaneous

- 5114 ARAN, S. Ganado lanar y cabrío, su explotación económica. Ed. 5, rev. Madrid, Yagües, 1950? 557 p. (Biblioteca Pecuaria) 45 Ar12G
- 5115 ARMSTRONG, J. Sheep do the trick. Idaho Farmer 68:680,708. Sept. 21, 1950. 6 G282  
Management of a sheep farm in Idaho.
- 5116 ASHTON, J. A Colorado sheep operation. Natl. Wool Grower 40(10):24-26. Oct. 1950. 45.8 N21N
- 5117 AULT, C. N. Conviene bañar lanares recién esquilados? Charla Rur. 132:30-31,36. Sept. 1949. 9 C37
- 5118 BARON, D. Larger sheep flocks pay. Farmer's Mag. 47(9):10,62. Sept. 1950. 7 C165
- 5119 BEDMAR MARTOS, E. El ganado cabrio blanco de nuestra provincia [Jaén]. B. de Zootecnia 6: 199-202. June 1, 1950. 41.9 So16
- 5120 BOKOV, V. I. Kolkhoznaja ovšseferma [A collective sheep farm]. Leningrad? Leningradskoe Gazetno-Zhurnal'noe i Knizhnoe Izd-vo, 1950. 117 p. 45 B63
- 5121 BUSURIN, I. A. To save and raise all the lambs on the sheep raising farms. (In Russian.) Sořsialist. Zhivotn. 12(4):69-72. Apr. 1950. 49 So71
- 5122 COBO SIERRA, E. El ganado cabrio en la provincia de Jaén. B. de Zootecnia 6:195-198. June 1, 1950. 41.9 So16
- 5123 DURANS, H. Raising of kids and production control of goats. (In Dutch.) Geitenhouder 13(6):1-2. June 1950. 40.18 G27
- 5124 ELLIOTT, E. How to build a strong 4-H goat club. Dairy Goat J. 28(10):7. Oct. 1950. 40.18 M592
- 5125 ESAULOV, P. A. Vyrashchivanie lagnfat [Raising lambs]. Ed. 6, enl. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 63 p. (Bibliotekha Kolkhoznogo Zhivotnovoda) 45 Es1
- 5126 FRASER, A. Sheep farming. London, Lockwood, 1950. 173 p. (Agr. & Hort. Ser.) 45 F86
- 5127 FRASER, A. Sheep theft; it is easy to commit and difficult to prove. A new method of marketing. Farmer & Stock-Breeder 64:2654. Sept. 26, 1950. 10 F228
- 5128 GEMMEKE. 91 schafe auf der Westfalenschau. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1142-1143. Aug. 24, 1950. 18 L2346
- 5129 HINDRIKS, J. On barn inspection of goats. (In Dutch.) Geitenhouder 13(7):4-5. July 1950. 40.18 G27
- 5130 IVANOV, M. F. Kurs ovšsevodstva [A course in sheep raising]. Ed. 5, rev. and enl. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 501 p. (Uchebniki i Uchebnye Posobiia dlia Vysshikh Sel'skokhoziaistvennykh Uchebnykh Zavedenii) 45 Iv1K
- 5131 LAMB, I. H. Sheep production in East Anglia. Brit. Soc. Anim. Prod. Proc. (1949)12:28-39. 1950. 49.9 B772  
Includes discussion.
- 5132 LECOMPTE, G. C. Scourable sheep branding fluid developed by USDA research. Wool Sack 17(7):4-5. Oct./Nov. 1950. 280.28 W88  
Similar title in Mont. Wool Grower 24(10):6,17. Oct. 1950. 45.8 M762
- 5133 LITTON, G. W. This Virginia sheep business is booming. Sheepman 21:183. Oct. 1950. 45.8 Sh32
- 5134 NEVADA. BOARD OF SHEEP COMMISSIONERS. Biennial report, for the period July 1, 1948, to June 30, 1950. Carson City, 1950. 15 p. 45.9 N41
- 5135 PIPER, G. B. Dipping—from mixture preparation and method to after-care. Adelaide Stock & Sta. J. 45(2335):7,38-39. Aug. 16, 1950. 23 Ad3  
Sheep dipping.



5136 SIRRY, I., EL-SOKKARY, A. M., and HASSAN, H. A. Milk production of Egyptian sheep. *Empire J. Expt. Agr.* 18:163-168. Ref. July 1950. 10 Em7

5137 TINDALL, C. Late lambs? They fit into farming better, less work in lambing chores, lambing season is shorter. *Mo. Rur.* 91(19):4-5. Oct.14,1950. 6 R8891

5138 VIK, H., and MIDTLID, S. Wool researches. Rams exhibited 1944 and 1946. (In Norwegian.) *Norges Landbrhøgsk. Meld.* 30:149-184. 1950. 104 N762M English summary.

5139 VILLENEUVE, P. Solgnez-vous vos moutons? *B. des Agr.* 46(9):16,79. Sept.1950. 7 B872

5140 VIVAS BASAGO, A. Importancia, origen y razas lanares de la provincia de Jaén. *B. de Zootecnia* 6:203-207. June 1,1950. 41.9 So16

## SWINE

### Breeds and Breeding

5141 CARSE, G. M. D. The Wessex Saddleback [swine]. *Agr. Gaz. N. S. Wales* 61:373-374. July 1,1950. 23 N472

5142 CHUCHKO, G. P. Experiments in interspecific crossing of swine. (In Russian.) *Soſſialist. Zhivotnovod.* 12(5):65-68. May 1950. 49 So71

5143 COFFEY, J. S. The fall breeding season. *Berkshire News* 16:6,16. Nov.1950. 46.8 B454

5144 CUNHA, T. J. Tips on hog types and breeds. *Fla. Grower* 58(11):7. Nov.1950. 80 F6622  
Similar title in *For Sale, Want & Exch. B.* 2(11):1. Oct.2,1950. 280.38 F74

5145 GRUMMER, R. H. Are you getting the most from your sows? *Duroc News* 24(10):76,78. Oct.1950. 46.8 N212

5146 HARING, F. Mast- und schlachtelgenschaften und ihre beziehungen zum typ verschiedener schweinerassen und deren kreuzungen. *Kühn-Arch.* 62:76-215. Ref. 1949. 105.8 H15Ku

5147 MERCIER, N. L'élevage du porc dans le comté de Nicolet. *Digeste de l'Éleveur* 4(8,i.e.9):17-19. May 1950. 49 D56

5148 MĀGKOVA, O. Interspecific crossing—method for increasing swine productivity. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):36. June 1950. 281.8 K83

5149 NILSSON, N. E. Inheritance and environment in swinekeeping. (In Swedish.) *Kalmar Läns Södra Hushållsk. Årsskr.* 1949:78-95. 11 K122

5150 SCHMID, E. Interkantonaler zuchtschweinemarkt in zug 1950. *Grüne* 78:934-936. Aug.25,1950. 17 Sch9

Switzerland.

5151 STEWART, H. A. More and bigger pork chops. *Farmers Fed. News* 31(2):6,19. Oct.1950. 280.28 F225

Swine breeding program.

5152 SWEDEN. SVINSTAMKONTROLLEN. Svinstamkontrollen 1948, 26:e arbetsåret [The Swine Breeding Service, 1948, the 26th working year]. Sweden. *Lantbrukshögsk. Husdjurförsöksanst. Meddel.* 41,55 p. 1950. 104 Up62

English summary.

5153 VIANA, A. T. English Hampshire or Wessex Saddleback. (In Portuguese.) *Chacaras e Quintais* 82:353-354. Sept.15,1950. 9.2 C34

### Feeds and Feeding

5154 ANCESCHI, L. Swine raising: the problem of nutrition. (In Italian.) *Avvenire Agr.* 58:180-183. Aug.1950. 16 Av9

5155 BAYERISCHE LANDESANSTALT FÜR TIERZUCHT, GRUB. Die eignung von millocorn für die schweinemast im vergleich zum mais. *Tierzüchter* 2:431-433. Aug.20,1950. 49 T445

5156 BONADONNA, T. Notes about feeding swine. (In Italian.) *Mondo del Latte* 1950:420-421,423-424,428-429. (To be cont.) Aug.1950. 44.8 M74

English summary.

5157 BRAUDE, R., and MITCHELL, K. G. The value of Australian sorghum for fattening pigs. *Gt. Brit. Min. Agr. Agriculture* 57:257-260. Sept.1950. 10 G79J

5158 CATRON, D. The new look in swine nutrition. *Grain & Feed J. Consolidated* 105(7):43-44. (Excerpts.) Oct.11,1950. 298.8 G762

5159 CUNHA, T. J., and others. Observations on cull tangerines for swine feeding. *Fla. Agr. Expt. Sta. C. S-11,7 p.* May 1950. 100 F66Ci

G. A. LaMar, C. B. Shawver, A. M. Pearson, S. J. Folks and R. S. Glasscock, joint authors.

5160 CUNHA, T. J., and others. Observations on the animal protein factor and vitamin B12 for swine feeding. *Fla. Agr. Expt. Sta. C. S-13,6 p.* May 1950. 100 F66Ci

J. E. Burnside, H. M. Edwards, G. B. Meadows, R. H. Benson, A. M. Pearson and R. S. Glasscock, joint authors.

5161 CUNHA, T. J., and others. Preliminary observations on the feeding value of citrus and cane molasses for swine. *Fla. Agr. Expt. Sta. C. S-10,6 p.* May 1950. 100 F66Ci

A. M. Pearson, R. S. Glasscock, D. M. Buschman and S. J. Folks, joint authors.

5162 DAIL, H. M. He builds his hog program around pastures. *Successful Farming* 48(10):60,62-63. Oct.1950. 6 Su12

5163 DOMAŃSKI, E., and JAŚKOWSKI, L. Effect of the feeding of pregnant sows and of the extra feeding of young pigs on the shape of the Hb curve in young pigs. (In Polish.) *Med. Weter.* 6:301-307. Ref. May 1950. 41.8 M463

English summary.

5164 HALLQVIST, C. Experiments with regular fasting days for fattening swine. (In Swedish.) *Svenska Svinavelsför. Tidskr.* 1950:90-94. 46.9 Sy2

5165 JOHNSON, B. C., and others. The interrelationship of vitamin B12 and folic acid in the baby pig. *J. Lab. & Clin. Med.* 36:537-546. Ref. Oct.1950. 44.8 J8233

A. L. Neumann, R. O. Nesheim, M. F. James, J. L. Krider, A. S. Dana, and J. B. Thiersch, joint authors.

5166 NORDLOH, P. C. Why paint the sow's belly red? *N. J. Farm & Gard.* 21(10):14-15,58. Oct.1950. 6 G162

On the need for minor elements in feed.

5167 OLIVE, J. P. Les sous-produits laitiers dans l'alimentation du porc. *Porc* 21(6):16-17. (Concl.) July/Aug.1950. 46.8 P822

5168 OWTRAM, I. H. Systems of pig feeding and management in New Zealand. *New Zeal. J. Agr.* 81:147, 149. Aug.1950. 23 N48J

5169 PAVLIKHIN, N. Swine fattening. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):37. June 1950. 281.8 K83

On Maksim Gor'kii Collective Farm in Moscow Region.

5170 PETERSEN, N. Weshalb und wie schweinemast mit dem rechenstift? *Schweiz. Milchztg.* 76:470. Sept.22, 1950. 44.8 Sch92

5171 ROBISON, W. W. Swine Day. *Ohio. Agr. Expt. Sta. Mimeog. Ser.*, Swine 66,10 p. Sept.21,1950. 46.9 Oh34

Feeding experiments.

5172 SANCHEZ-PIZJUAN Y BONSON. La alimentación de los cerdos. *Ceres [Valladolid]* 15(171):42-43. Sept.1,1950. 15 C33

5173 TESTONI, R. The pasturing of swine. (In Italian.) *Riv. di Zootec.* 23:260-266. Aug.1950. 49 R52

5174 WILKENS. Die schweinemast mit getreideschrot. *Hannoversche Land- u. Forstwirt. Ztg.* 103:485. May 13,1950. 18 H194

## Veterinary Medicine

5175 BAGEDDA, G. Castration phenomenons in sexual mature females with particular reference to swine. (In Italian.) *Zootec. e Vet.* 5:462-471. June 1950. 41.8 Z7

English summary.

5176 BOHSTEDT, G. Can salt poison pigs? *Agr. Leaders' Digest* 31(9):23. Oct.1950. 275.28 Am3

5177 BOHSTEDT, G. Will salt poison hogs? Proper management calls for salt in the ration of swine at all times. *Duroc News* 24(10):186,191. Oct.1950. 46.8 N212

5178 BOJÁRSKII, I. V. Swine poisoning with feeds infested with [Aspergillus] molds. (In Russian.) *Veterinariya* 27(7):38-39. July 1950. 41.8 V6426

5179 BROOKSBY, J. B. Strains of the virus of foot-and-mouth disease showing natural adaptation to swine. *J. Hyg. [London]* 48:184-195. June 1950. 449.8 J82



- 5180 DOMIZIO, G. DI. Intermedio-lateral poliomyelitis of swine. (Critical considerations on a group of swine with symptomatology referable to Teschen disease). (In Italian.) Arch. Vet. Ital. 1:295-323. Ref. Sept.30, 1950. 41.8 Ar25  
English summary.
- 5181 FOURIE, P. J. J., WET, G. J. DE, and DRIM-MELEN, G. C. VAN. Tuberculosis in pigs caused by *M. tuberculosis* var. *hominis*. So. African Vet. Med. Assoc. J. 21:70-73. June 1950. 41.8 So8
- 5182 GAYOT, G. Localisation des anticorps dans le sérum antipesteux. Inst. Pasteur d'Algérie. Arch. 28: 145-147. June 1950. 44.8 In7A
- 5183 GAYOT, G. Remarques sur la préparation et l'utilisation du vaccin au cristal-violet contre la peste porcine. Inst. Pasteur d'Algérie. Arch. 28:130-144. Ref. June 1950. 44.8 In7A
- 5184 GRAHAM, R., BOLEY, L. E., and WOODS, G. T. Bacitracin in necrotic enteritis of swine. No. Amer. Vet. 31:736-737. Nov.1950. 41.8 N812
- 5185 HRUSKA, K. Experimental active immunisation against swine paralysis with adsorbate and krystall-violet vaccine. (In Czech.) Casopis Českoslov. Vet. 5: 289-300. July 10, 1950. 41.8 C27  
French summary.
- 5186 HUTCHINGS, L. M., BUNNELL, D. E., and BAY, W. W. Experimental therapy of brucellosis in swine with streptomycin and sulfadiazine. Amer. J. Vet. Res. 11:388-392. Oct.1950. 41.8 Am3A
- 5187 HUTCHINGS, L. M. Stop abortion in sow herds. Breeder's Gaz. 115(10):10-11. Oct.1950. 49 B74  
Brucellosis control.
- 5188 ISAEV, S. G. Chloral hydrate narcosis in swine. (In Russian.) Veterinariia 27(7):50-51. July 1950. 41.8 V6426
- 5189 JANISZEWSKI, J. Climatic treatment of swine influenza. (In Polish.) Med. Weter. 6:357. June 1950. 41.8 M463
- 5190 KERNKAMP, H. C. H. Differentiating physical characteristics of hypoglycemia, uremia-toxemia and transmissible gastro-enteritis in baby pigs. No. Amer. Vet. 31:729-730. Nov.1950. 41.8 N812
- 5191 KLAAS. Superfödtation bei einem schwein. Deut. Tierärztl. Wchnsch. 57:225-226. July 15, 1950. 41.8 D482
- 5192 KOBUSIEWICZ, T., and STEFFEN, J. The immunological value of the avirulent erysipelas culture (Prof. Staub) of pigs. (In Polish.) Med. Weter. 6:152-155. Mar.1950. 41.8 M463
- 5193 KRASOV, V. M. Allergic diagnosis of brucellosis in swine. (In Russian.) Veterinariia 27(7):13-19. July 1950. 41.8 V6426
- 5194 KRÜGER, H. Die staatliche bekämpfung des rotlaufs der schweine. Monatsh. f. Vetmed. 5:247-249. Sept.1950. 41.8 M742
- 5195 KURTZE, H. Übertragung des "böartigen katarrhalfiebers des rindes" auf ein schwein. Deut. Tierärztl. Wchnsch. 57:261. Aug.15, 1950. 41.8 D482
- 5196 LAGAILLARDE, J. Observations sur la variole porcine. Acad. Vét. de France. B. 23:381-383. July 1950. 41.9 R24
- 5197 LAT, J., KOŠTANSKY, K., and URSINY, J. Experiments to produce an adsorbate vaccine against swine erysipelas. (In Czech.) Casopis Českoslov. Vet. 5:319-324. Ref. July 25, 1950. 41.8 C27
- 5198 LEPINE, P., and ATANASIU, P. Existence à Madagascar de l'encéphalomyélite enzootique des porcs. Immunité croisée avec le virus de la maladie de Teschen. Transmission au sanglier. Inst. Pasteur Ann. 79:113-120. Aug.1950. 44.8 An75
- 5199 LEWANDOWSKI, M. A case of developmental deformity of vertebrae in a pig. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. DD 5:171-176. 1950. 512 L96Ad  
English summary.
- 5200 MACHADO, A. V., and RANGEL, N. M. Foreign bodies in the liver and bile ducts of a hog. (In Portuguese.) Rev. Ceres 8:153-157. July/Dec.1949. 9.2 C332  
English summary.
- 5201 MEUSZYŃSKI, S. Studies of bacterial flora in the lymph nodes of healthy pigs with particular reference to *Salmonella*. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. DD 5:139-149. Ref. 1950. 512 L96Ad  
English summary.
- 5202 MORETTI, B. Functional behavior of the sternal marrow in experimental pure hog cholera. (In Italian.) Arch. Vet. Ital. 1:139-152. June 30, 1950. 41.8 Ar25  
English summary.
- 5203 MUHRER, M. E. Restraint of swine with pentothal sodium. Amer. Vet. Med. Assoc. J. 117:293-296. Oct.1950. 41.8 Am3
- 5204 MURPHY, J. H. Disenteria porcina. Campo [Guadalajara] 18(8):3-4. Aug.1950. 8 G76
- 5205 NOBLE, W. A., and FRAME, J. The treatment of bowel oedema in pigs. Vet. Rec. 62:544-545. Sept.16, 1950. 41.8 V641  
Phenergen and penicillin.
- 5206 OLIVARES CABRERA, J. El colera porcino. Vida Agr. [Lima] 27:529-533. July 1950. 9.8 V66
- 5207 OLOFSSON, N. E. Sambandet mellan ung-svins alder och viktökning [Relation between the age of pigs and their increase in weight]. Sweden. Lantbruks-hogsk. Husdjurförsöksanst. Meddel. 42,20 p. 1949. 104 Up62  
English summary.
- 5208 ORFEL, Z. Study of the peripheral blood picture in pure hog cholera. (In Italian.) Arch. Vet. Ital. 1:131-138. June 30, 1950. 41.8 Ar25  
English summary.
- 5209 ORLANDI, R., and ARMSTRONG, F. E. Sodium fluoride as an ascaricide for swine raised on the ground. P. R. U. J. Agr. 31:190-202. Ref. Apr.1947, pub. June 1950. 8 P832J
- 5210 PAILLE, R., and HARS, E. Hémagglutination et rouget du porc. Acad. Vét. de France. B. 23:371-374. July 1950. 41.9 R24
- 5211 PASHOV, T. V. Differential diagnosis of tularemia and brucellosis in swine. (In Russian.) Veterinariia 27(7):19-22. July 1950. 41.8 V6426
- 5212 POTYRA, T. The use of penicillin in the treatment of swine erysipelas. (In Polish.) Med. Weter. 6:165-166. Mar.1950. 41.8 M463
- 5213 SAILLARD, R. Streptococcie du porc au Maroc. Rec. de Méd. Vét. 126:407-416. July 1950. 41.8 R24  
Streptococcus suis.
- 5214 SCHANG, P. J. Viruelas de los lechones; su transmisión por el Haematophysus suis y su profilaxis. Charla Rur. 136:28-29. Jan.1950. 9 C37
- 5215 SHAW, G. E. An intestinal inhibitor of vitamin B12. Biochem. J. 47:xxxv-xxxvi. Sept.1950. 382 B52  
Swine.
- 5216 TORRENS PASTOR, A. Viabilidad de las crías. Balearic Isl. Diputación Prov. B. de Agr. 71:5. Aug.1950. 15 B19  
Swine.
- 5217 VAITSMAN, J. Measles in swine (cysticercosis); what it is, and how to avoid it. (In Portuguese.) Rev. dos Criadores 21(6):33-34. June 1950. 43.8 R32
- 5218 VARIANT of hog-cholera virus brings losses for second year; specialists urge early and heavy doses of anti-hog cholera serum as control. Amer. Hampshire Herdsman 25(11):34-35. Nov.1950. 46.8 Am33
- 5219 VERGE, J., and others. Recherches sur la sensibilité in vitro du bacille du rouget [Erysipelothrix rhusiopathiae] aux antibiotiques. Inst. Pasteur Ann. 79: 145-149. Aug.1950. 44.8 An75  
P. Goret, L. Joubert, L. Cauchy, G. Saugé, and M. Angot, joint authors.
- 5220 VERGE, J., and others. Recherches sur la sensibilité in vivo du bacille du rouget [Erysipelothrix rhusiopathiae] aux antibiotiques. Inst. Pasteur Ann. 79: 150-157. Ref. Aug.1950. 44.8 An75  
P. Goret, L. Joubert, L. Cauchy, G. Saugé, and M. Angot, joint authors.
- 5221 WASKOW, E. Common salt poisonings in piglets. (In Polish.) Med. Weter. 6:229. Apr.1950. 41.8 M463
- 5222 ZADURA, J. Haemomelasma of intestines in piglets. (In Polish.) Med. Weter. 6:225-226. Apr.1950. 41.8 M463

## Miscellaneous

- 5223 ANTHONY, D. J. Hit and miss in bacon pigs. Farmer & Stock-Breeder 64:2581. Sept.19, 1950. 10 F228  
Bacon type pigs in Britain and consumer preferences for bacon.



5224 BABICHEV, G. T. Za vysokoproduktivnoe svinovodstvo [For high productivity in swine raising]. Krasnodar, Kraevoe Kn-vo, 1950. 19 p. 46 B11

5225 BECKMAN, H. J. Careful management—unique market for [pig] weanlings requires extra care and attention from grower. West. Livestock J. 28(54): 127-128. Sept. 15, 1950. 6 F2278

5226 BLOUNT, W. P. It's an old Danish custom. Farmers Wk. [London] 33(15):57,59. Oct. 13, 1950. 10 F2226

Danish pig husbandry.

5227 BLOUNT, W. P. Pigs in pokes? Farmers Wk. [London] 33(14):57. Oct. 6, 1950. 10 F2226

Research data needed by swine breeders to produce bacon of top quality.

5228 CARLISLE, G. R. Increasing income from livestock production. Your Farm 9(10):57-60. Oct. 1950. 6 Y8

Swine and beef production practices.

5229 CARLISLE, G. R., and LYON, R. O. Swine manual for 4-H Club members. Ill. Agr. Col. Ext. C. 665,32 p. July 1950. 275.29 IL62C

5230 CARTER, J. Barrow show judges stress type hog. Natl. Live Stock Prod. 29(2):11,14. 1950. 280.38 N21

5231 CUNHA, T. J. Efficient production necessary; swine raisers are faced with larger number of hogs and lower prices. Fla. Cattleman 15:2842. Oct. 1950. 43.8 F66

5232 DANSHCHINSKII, A. T. Achievements of the Hero of Socialist Labor—swineherd E. F. Luk'ianchenko. (In Russian.) Sotsialist. Zhivotn. 12(4):61-65. Apr. 1950. 49 So71

Her practices in raising pigs.

5233 DAVIDSON, H. R. The history and development of pig production in East Anglia. Brit. Soc. Anim. Prod. Proc. (1949)12:17-27. 1950. 49.9 B772

Includes discussion.

5234 DRYDEN, G. E. Swine men must keep informed on management problems. Fla. Cattleman 15:36. Oct. 1950. 43.8 F66

5235 FLEIS, B. M. Highly-productive swine of Priboi Kolkhoz [in Udmurt Republic]. (In Russian.) Sotsialist. Zhivotnovod. 12(5):95-96. May 1950. 49 So71

5236 FONTH, J. M. Crfa práctica del cerdo. Agr. Costarricense 8:299,301-303,305-311. (Cont.) July/Aug. 1950. 8 Ag895

5237 GRUDEV, D., and LAPSHIN, M. Urzhumsk pigs. (In Russian.) Kolkhoz. Proizvodstvo 10(6):34-35. June 1950. 281.83 K83

Swine raising on collective farms in Urzhumskii and Buiskii Districts.

5238 HALLER, A. Pig hatcheries move ahead. Meat 33(5):160-161. Oct. 1950. 286.85 M464

5239 HERGUETA NAVAS, L. La crfa del cerdo. Ed. 2. Madrid, Instituto Editorial Reus, 1950. 46 H42

5240 KIRKWOOD, J., and SMART, A. B. Pig keeping: some facts and figures from the College Farm, Auchincruive. West Scot. Agr. Col. B. 146,26 p. 1950. 103 G46W

5241 LABUSCHAGNE, A. Hog farming in the Netherlands. (In Afrikaans.) Landbouweekblad 32(1628): 41,43. Sept. 27, 1950. 24 L232

5242 MORALES, P. T. Crfa de cerdos. Manabí, Ecuador. Consorcio de Cent. Agr. B. 12(62):39-41. Apr./June 1950. 9.5 M31

5243 ORBEA, M. Cuidados de los cerdos durante la estación estival. Campo [Guadalajara] 18(7):11. July 1950. 8 G76

5244 PETERSEN, N. Wie vermeidet man "unglück" im ferkel- und schweinestall? Schweiz. Milchztg. 76: 486. Sept. 29, 1950. 44.8 Sch92

5245 PROZOROVA, V. A. Achievements of the swine farm of Krasnyi Oktobr' Collective Farm. (In Russian.) Sotsialist. Zhivotn. 12(4):57-60. Apr. 1950. 49 So71

5246 THOMSON, G. H. More meat, less fat—goal of Ohio hogmen. Natl. Live Stock Prod. 28(11):20. Sept. 1950. 280.38 N21

5247 TRULSSON, G. Clean the pig pens during the summer. (In Swedish.) Svenska Svinaveisför. Tidskr. 1950:98-100. 46.9 Sv2

5248 VASHKEVICH, F. V. Leading practices in raising young pigs. (In Russian.) Sovet. Zootekh. 4(6): 35-40. June 1950. 49 So822

5249 WALFORD-LLOYD, E. Pigs and their management. London, Nicholson and Watson, 1950. 196 p. (Country Books, 4) 46 W14

## ENTOMOLOGY

### GENERAL

5250 BOVEY, P. La variabilité des espèces et l'entomologie appliquée. Soc. Vaud. des Sci. Nat. B. 64: 401-416. Ref. July 1950. 508 L37

5251 CARPENTIER, F., and CARPENTIER, M. Observations sur la morphologie des Méganeurides (Insectes, Protodonates), du Stéphanien de Commeny, France. Cong. Internatl. de Zool. Compt. Rend. (1948)13: 553-554. 1949. 410.9 In8

5252 CARVALHAES, J. The problem of color in the insects. (In Portuguese.) Brotéria 19:116-136. Ref. Aug. 1950. 410 B79C

5253 CATALOG of the library of the Netherlands Entomological Society. Fourth supplement (Works from the estate of Dr. D. L. Uyttenboogaart. (In Dutch.) Ent. Ber. 13:120-128. Aug. 1, 1950. 420 N38B

5254 CIACCIO, G. Essais d'inoculation de Rickettsia prowazeki et Rickettsia mooseri chez les insectes. Étude des anticorps spécifiques. Cong. Internatl. de Zool. Compt. Rend. (1948)13:496-498. 1949. 410.9 In8

5255 EGYPT. MINISTRY OF AGRICULTURE. ENTOMOLOGICAL SECT. List of Egyptian insects in the collection of the Entomological Section. Cairo, Govt. Press, 1949. 87 p. 422.7 Eg9

5256 ENGELHARDT, W. Insekten fliessender gewässer. Kosmos 46:360-364. Aug. 1950. 474 K842

5257 FRANZ, H., and KLIMESCH, J. Erster nachtrag zur landtierwelt der mittleren Hohen Tauern. Akad. der Wiss. Wien, Math.-Nat. Kl. Sitzber. Abt. 1 158: 1-77. 1949. 510 V67

Includes insects, etc.

5258 FRENCH, G. T. Entomology. In Virginia Academy of Science. James River Project Committee. The James River Basin, p.107-128. Ref. Richmond, 1950. 138 V812

5259 GRANDI, G. The social insects and their communities. (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49)17:301-315. 1950. 420 B63

5260 HALE CARPENTER, G. D. Homochromie et moyens de défense chez les insectes. (In English.) Cong. Internatl. de Zool. Compt. Rend. (1948)13:466-467. 1949. 410.9 In8

5261 HALE CARPENTER, G. D. Some insects (excluding Lepidoptera) from the Shetland Isles. Ent. Mon. Mag. 86:268-269. Sept. 1950. 421 En86

5262 HARRIS, K. L. Identification of insect contaminants of foods by the micro-morphology of the insect fragments. Assoc. Off. Agr. Chem. J. 33:898-933. Aug. 15, 1950. 381 As7

5263 HEMPEL, A. A study of the natural food of wild birds of Brazil. (In Portuguese.) Inst. Biol. São Paulo. Arq. (1949/50)19:237-268. Ref. 1950. 442.9 Sa6

English summary.

5264 MORETON, B. D. Guide to British insects; an aid to identification. London, Macmillan, 1950. 188 p. Ref. 422.4 M81

5265 PIELOU, D. P. Preparation of thin films of crystalline DDT and  $\gamma$ -hexachlorocyclohexane in celloidin. Science 112:406-407. Oct. 6, 1950. 470 Sci2

In connection with breeding strains of resistant beneficial insects.

5266 PORTER, J. E., and HUGHES, J. H. Insect eggs transported on the outer surface of airplanes. J. Econ. Ent. 43:555-557. Aug. 1950. 421 J822

5267 REHN, J. W. H. Notes on some aquatic insects of the Brandywine Creek drainage, Chester County, Pennsylvania. Ent. News [Philadelphia] 61:171-177. Nov. 1950. 421 En88

5268 RICHARDS, A. W. Interesting insects in N. E. Hants in 1948. Entomologist 82:20. Jan. 1949. 421 En8

5269 ROSIN, S., and PFISTER, R. Zur technik der fixierung von insektenlarven. Rev. Suisse de Zool. 57: 569-570. July 1950. 410 R324



- 5270 ROSS, E. S. Some collections recently acquired by the California Academy of Science. *Pan-Pacific Ent.* 26:106. July 1950. 421 P193
- 5271 SALT, R. W. Time as a factor in the freezing of undercooled insects. *Canad. J. Res. Sect. D, Zool. Sci.* 28:285-291. Oct. 1950. 470 C16D
- Tests with larvae and pupae of *Cephus cinctus*, eggs of *Camnula pellucida*, and larvae of *Loxostege sticticalis*, *Eurosta solidaginis*, and *Agrotis orthogonia*.
- 5272 SHTEINBERG, D. M. Comparative evaluation of regeneration possibilities in insects. (In Russian.) *Zool. Zhur.* 29:267-276. Ref. May/June 1950. 410 R92
- 5273 WEISS, H. B., and BOYD, W. M. Insect feculae. *N. Y. Ent. Soc. J.* 58:154-169. Sept. 1950. 420 N48J
- 5274 WIGGLESWORTH, V. B. A new method for injecting the tracheae and tracheoles of insects. *Q. J. Micros. Sci.* 91:217-224. Ref. June 1950. 440.8 Q2
- GENERAL - ECONOMIC
- 5275 ABEL, P. M. Breeding bugs that eat bugs. *Country Guide* 69(9):3,40-41. Sept. 1950. 7 G76
- 5276 AHMAD, M. The utility of fish as larvicides in Sind. *Agr. Pakistan* 1:109-114. Winter 1949/50. 22 Ag832
- For control of Anopheles.
- 5277 ALESSANDRINI, M. E. Residual DDT content; a rapid method for the detection and determination of small quantities of DDT on sprayed surfaces. *World Health Organ. B.* 2:629-636. 1950. 449.9 W892B
- 5278 ALLEN, N. Tobacco insecticides: those used, approximate quantity of each, and precautions taken in South Carolina. (Abs.) *Tobacco Insect Conf. Proc.* 10:4. July 27, 1950. 423.9 T55
- 5279 ALLEN, T. C. Criteria for measuring phytotoxicity. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:23-24. 1950. 422.12 N81
- 5280 AMARAL, S. F. DO. Field experiment with benzene hexachloride (BHC), dichloro-diphenyl-trichloroethane (DDT) and diethyl-paranitrophenyl-tiophosphate (RB) for the control of rice plant insects. (In Portuguese.) *Inst. Biol. São Paulo. Arq.* (1949/50)19:283-298. Ref. 1950. 442.9 Sa6
- English summary.
- 5281 AMERICAN ASSOCIATION OF ECONOMIC ENTOMOLOGISTS. NORTH CENTRAL STATES BR. Proceedings, Fifth annual meeting, Kansas City, Kansas, March 23, and 24, 1950. n.p., 1950. 71 p. 422.12 N81
- 5282 AMERICAN HOTEL ASSOCIATION. Pest control guide. Buildings 50(10):32-34. Oct. 1950. 296.8 B867
- Insects.
- 5283 ANDRE, F. Policy and responsibility to students and staff members working with hazardous materials from the administrative point of view. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:8. 1950. 422.12 N81
- 5284 ANDREWS, W. B. Cotton insect control. In *Andrews, W. B., ed. Cotton production, marketing and utilization*, p. 172-205. Ref. State College, Miss., 1950. 280.372 An22
- 5285 ANDRIANOVA, N. S. Injurious insects of tree and shrub species in the district of Kamyshevo-Stalingrad [shelterbelt] route and measures for their control. (In Russian.) *Zool. Zhur.* 29:206-216. Ref. May/June 1950. 410 R92
- 5286 APPLE, J. W. Necessity for use of parathion on vegetables. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:6-7. 1950. 422.12 N81
- Includes discussion.
- 5287 ARKHANGEL'SKIY, N. N., and BIRULIA, N. B. Primenenie gekssaklorana i DDT v bor'be s vreditel'ami semennoi lifitserny [Use of benzene hexachloride and DDT in the control of pests on alfalfa grown for seed]. *Rostov, Rostovskoe Obl. Kn.-vo*, 1950. 8 p. 423 Ar43
- 5288 BARGIONI, G. Grain protection in storehouses and mills. (In Italian.) *Italia e i Cereali* 5:257. June 1950. 59.8 It1
- Insect pests.
- 5289 BERAN, F. Moderne grossbekämpfung von speicherschädlingen. *Pflanzenarzt* 3(3):3-4. Sept. 1950. 464.9 P482
- 5290 BERNFUS, E. Ergebnisse die grossversuchen mit dem DDT staubmittel "Geigy 33" bei mahlgetreide und bei gerste für die malzkaffee- und blierzeugung. *Versuchsanst. f. das Gärungsgewerbe. Mitt.* 1950:83-89. July/Aug. 1950. 390.08 V67
- 5291 BIGGER, J. H. Present status of low-gallage spraying. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:11. 1950. 422.12 N81
- 5292 BISHOPP, F. C. Report on January hearings on residue problems. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:3. 1950. 422.12 N81
- 5293 BISHOPP, F. C. Responsibility for recommendations - Federal, State, and industry. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:36-37. 1950. 422.12 N81
- Economic entomology.
- 5294 BOHM, O. Wer war es? Eine kleine anleitung zum selbsterkennen tierischer schädlinge im obstgarten. *Pflanzenarzt* 3(8):3-5. Aug. 1, 1950. 464.9 P482
- Insects.
- 5295 BOLEY, J. Lindane, new terror to garden pests. *Amer. Primrose. Soc. Q.* 8:1-2. July 1950. 96.575 Am3
- 5296 BOUVIER, G., and GASCHEN, H. Guide d'entomologie médicale et vétérinaire. Lausanne, Librairie Payot, 1949. 96 p. 423.2 B66
- 5297 BOWEN, C. V. Report on benzene hexachloride. *Assoc. Off. Agr. Chem. J.* 33:774-782. Ref. Aug. 15, 1950. 381 As7
- 5298 BRINDLEY, T. A., SCHOPP, R., and HINMAN, F. G. Effect of initial high dosages of DDT on the yields of peas and wheat. *J. Econ. Ent.* 43:565-567. Aug. 1950. 421 J822
- 5299 BRUCE, W. N. Insect resistance to insecticides. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:33-34. 1950. 422.12 N81
- 5300 BUCKLEY, M. S. Fumigants in elevators. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:53. 1950. 422.12 N81
- 5301 BÜTTNER, O. Ist schädlingbekämpfung rentabel? *Anz. f. Schädlingk.* 23:109-110. July 1950. 421 An9
- 5302 CAFFREY, D. J. Tobacco insecticides: their hazards to operators, tobacco handlers, and consumers. (Abs.) *Tobacco Insect Conf. Proc.* 10:2-3. July 27, 1950. 423.9 T55
- 5303 CASTELLI, G. Insect and rodent disinfection in the United States of America. (In Italian.) *Cam. di Com. Indus. e Agr. di Milano. B. Econ. II. Studi e Statist.* 3(8):13-14. Aug. 1950. 280.9 M587B
- 5304 CHAMBERLIN, F. S. Materials used and precautions taken in the Florida-Georgia shade-grown area. (Abs.) *Tobacco Insect. Conf. Proc.* 10:4. July 27, 1950. 423.9 T55
- 5305 CHAPMAN, R. K. Insecticide and fungicide compatibility. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:22. 1950. 422.12 N81
- 5306 CINCINNATI UNIVERSITY. COLLEGE OF MEDICINE. KETTERING LABORATORY. The toxicity of DDT. Cincinnati, 1950. 249 p. 391 C49
- Contents: I. Experimental observations, by W. B. Deichmann, S. Witherup, and K. V. Kitzmiller; II. A survey of the literature, by F. F. Heyroth.
- 5307 CLEVELAND, C. R. Some commercial aspects of the development of insecticides for controlling livestock pests. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:16-17. 1950. 422.12 N81
- 5308 COOKE, F. C. Insect pests on stored copra. *Ceylon Coconut Q.* 1(2):37-38. Apr./June 1950. 77.8 C33
- 5309 COTTON, R. T. Insect damage to stored grain and its prevention. *Pest Control* 18(10):8-10, 12, 14, 16, 18, 60. Oct. 1950. 449.8 Ex8
- 5310 COTTON, R. T. Insect infestation in stored grain. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:52-53. 1950. 422.12 N81
- 5311 DAVIDOW, B. A spectrophotometric method for the quantitative estimation of technical chlordane. *Assoc. Off. Agr. Chem. J.* 33:886-894. Aug. 15, 1950. 381 As7
- 5312 DAVIS, J. J. Trends in insect control—1950. *J. Econ. Ent.* 43:570. Aug. 1950. 421 J822
- 5313 DDT. *Chem. Engin.* 57:204-207. Nov. 1950. 381 EL2
- A flow chart.



- 5314 DECKER, G. C. Insect outbreaks. a-b. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:32-33. 1950. 422.12 N81  
a, Introductory remarks; b, Long-time effects of insecticides on insect populations.
- 5315 DENMARK. STATENS FØRSØGSVIRKSOMHED I PLANTEKULTUR. Specialpræparater til bekæmpelse af plantesygdomme og skadedyr anerkendte af Statens Førsøgsvirksomhed. Gyldig for året 1949 [Special preparations for the control of plant diseases and pests approved by the State Research Institute. Valid for the year 1949]. København, 1949. 17 p. 464.4 D41
- 5316 DICKE, R. J. Methods of recording animal parasite populations and evaluation of control procedures. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:17-18. 1950. 422.12 N81
- 5317 DOMENICHINI, G. Healthy wheat at the mill. (In Italian.) Humus 6(7):21-24. July 1950. 16 H88  
Control of storage pests.
- 5318 DRACHOVSKÁ-ŠIMANOVÁ, M. Aircraft in insecticide application. (In Czech.) Ochrana Rostlin 23: 15-24. 1950. 464.8 Oc3  
English summary.
- 5319 DRIGGERS, B. F. Effect of parathion on immature stages of plum curculio [Conotrachelus nuphar], oriental fruit moth [Grapholitha molesta] and codling moth [Carpocapsa pomonella] within the host plant. J. Econ. Ent. 43:474-476. Aug. 1950. 421 J822
- 5320 DUTT, N. Insects on the farm. II. Young Farmer 18:241-242. Sept./Oct. 1950. 10 Y8
- 5321 EASTERBROOK, L. F. Fruitgrowers and pests; nature refuses to be beaten by chemists. Empire Prod. 319:94. Sept./Oct. 1950. 286.8 Em7
- 5322 EBELING, W. Rate of penetration of oxygen through layers of petroleum oil. J. Econ. Ent. 43:503-505. Aug. 1950. 421 J822
- 5323 EDWARDS, F. I., JR., and SMITH, F. F. Plant injury from parathion and related compounds. J. Econ. Ent. 43:471-473. Aug. 1950. 421 J822  
Tests with tomatoes and Crassula multica.
- 5324 EDWARDS, F. I., JR. Report on parathion. Assoc. Off. Agr. Chem. J. 33:783-787. Ref. Aug. 15, 1950. 381 As7
- 5325 EDWARDS, G. R. Insect pests of vegetable crops. So. Austral. Dept. Agr. J. 53:544-554. July 1950. 23 So84
- 5326 EVANS, R. E. Pest control and food sanitation. J. Milk & Food Technol. 13:292-295, 307. Sept./Oct. 1950. 44.8 J824  
Insects and rodents.
- 5327 FEICHTMEIR, E. F. Amorphous vs. crystalline forms of DDT, benzene hexachloride, and sulfur. (Abs.) Phytopathology 40:965. Oct. 1950. 464.8 P56
- 5328 FISHER, E. H. Educating insecticide applicators. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:7-8. 1950. 422.12 N81
- 5329 FISHER, E. V. Invite the birds to lunch; your guests will provide amusement and also help to control garden pests. Flower Grower 37(11):27, 40-41. Nov. 1950. 80 M72
- 5330 FJELDDALEN, J. DDT and other chlorinated insecticides, in connection with milk. (In Norwegian.) Norsk Landb. 16:296-298. Aug. 4, 1950. 11 N8122
- 5331 FJELDDALEN, J. E 605 - parathion. (In Norwegian.) Gartneryrket 40:546, 548. July 28, 1950. 80 G1938
- 5332 FLECK, E. E. Report on DDT. Assoc. Off. Agr. Chem. J. 33:760. Aug. 15, 1950. 381 As7  
Determination.
- 5333 FOX, C. J. S. A review of tobacco insect control in Canada. (Abs.) Tobacco Insect Conf. Proc. 10:7-8. July 27, 1950. 423.9 T55
- 5334 FRITZSCHE, K. Nouvelles médications antiparasitaires chez les animaux domestiques. Off. Internat. des Épizoot. B. 34:143-156. Ref. May 1950. 41.8 Of2  
Chlorinated hydrocarbon insecticides used against mange and ectoparasites of livestock.
- 5335 FROST, M. H., JR. Fall vegetable insects. West. Grower & Shipper 21(11):22-24. Oct. 1950. 280.38 W52
- 5336 FROWEIN, W. Raumvernebelung—ein neues und wirtschaftliches verfahren zur bekämpfung von mühlen-schädlingen. Getreide, Mehl u. Brot 4:183-184. Aug. 1950. 298.8 G33  
Insects.
- 5337 GAINES, J. C. Insect pests. In Advances in agronomy, v. 2, p. 32-40, 77-78. Ref. New York, Acad. Press, 1950. 30 Ad9  
Of cotton.
- 5338 GAINES, J. C. More and better cotton through an effective insect control program. Cotton Digest 23(6): 8. Oct. 28, 1950. 286.82 C822
- 5339 GAINES, J. C. Results of cotton insect control tests conducted in 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1286, 4 p. Nov. 3, 1950. 100 T31P
- 5340 GALLAND, J., and CHAPUIS, J. La désinsectisation des pommes de terre permet la réouverture du marché anglais aux primeurs bretonnes. Phytoma 3(18): 21-25. July/Aug. 1950. 464.8 P563
- 5341 GAMMON, E. T. Methyl bromide fumigation of Camellia cuttings. Calif. Dept. Agr. B. 39:125-128. July/Sept. 1950. 2 C12M  
For insect pests.
- 5342 GARDINER, J. E., and KILBY, B. A. Organic phosphorus insecticides. I. Synthesis of bisdimethylaminophosphonous anhydride containing <sup>32</sup>P. Chem. Soc. J. 1950:1769-1772. July 1950. 382 L84J
- 5343 GATES, D. E., and COTTON, R. T. How can we best attack the stored grain insect problem? (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:25-26. 1950. 422.12 N81  
Extension work.
- 5344 GLADENKO, I. N., PATS, B. M., and FORTUSHNYI, V. A. New insecticidal preparations. (In Russian.) Priroda 39(5):62-63. May 1950. 410 P933
- 5345 GOLDBERG, M. Shortages—how serious are they? How long will they last? What materials? What can we do about it? Agr. Chem. 5(10):41, 67. Oct. 1950. 381 Ag8  
Insecticides.
- 5346 GOLDBERG, M. Synergists widen scope of "non-toxic" insecticides. Chem. Indus. 67:578-581. Oct. 1950. 381 C426
- 5347 GONZÁLEZ TAFUR, O. B. Contribución a la lucha contra los insectos en el país. Co. Admin. del Guano, Perú. B. 26:5-8. Jan./Feb. 1950. 57.9 C73B  
Peru.
- 5348 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. The care of farm-stored grain infestation control. Gt. Brit. Min. Agr. & Fisheries. Adv. L. 368, 7 p. June 1950. 10 G79La
- 5349 GRISON, P., and PORTIER, G. La lutte contre les ennemis du pommier à cidre en Normandie. Rev. Hort. 122:218-221. Sept./Oct. 1950. 80 R32  
Insects.
- 5350 GUNDERSON, H. How good are airplanes in insect control. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:11-12. 1950. 422.12 N81
- 5351 GYRISCO, G. G., and MARSHALL, D. S. The control of insects of alfalfa and red clover in New York. J. Econ. Ent. 43:438-443. Aug. 1950. 421 J822
- 5352 HALL, S. A. Report on tetraethyl pyrophosphate. Assoc. Off. Agr. Chem. J. 33:761-763. Aug. 15, 1950. 381 As7  
In insecticides.
- 5353 HAMILTON, C. C. Mist blowers control pests. 1-2. South. Florist & Nurseryman 63(28):18, 55-57, 92-94; (29):19-21. Oct. 6, 13, 1950. 80 So86
- 5354 HAMILTON, C. C. Some observations on insects in New Jersey during 1950. Shade Tree 23(9):2-4. Sept. 1950. 99.8 Sh1
- 5355 HASEMAN, L. Effect of soil fertility and crop conditions on insect populations. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:34-35. 1950. 422.12 N81  
Includes discussion.
- 5356 HAUSEN, J. Im kampf gegen schädlingseinsekten. Deut. Ztg. 5(71):12. Sept. 6, 1950. 280.8 W742
- 5357 HAWKS, R. L. Direct mail advertising for the PCO. Pest Control 18(10):32-34, 60. Oct. 1950. 449.8 Ex8
- 5358 HEATON, W. C. Parathion deadly, respect it! (Condensed.) Fla. Grower 58(11):21, 29. Nov. 1950. 80 F6622
- 5359 HEPBURN, G. A. Investigations on citrus insects, eastern Cape Province. Citrus Grower 199:4-5. Aug. 1950. 80 C495
- 5360 HEPDING, L. Über eine einfache prüfungsmethodik und die anwendungsbreite des  $\gamma$ -hexachlorozyklohexans. Zentbl. f. Bakt. Parasitenk. Infektkrank. u. Hyg. Abt. I. Orig. 154(Ber. über die 2. Tagung der Freien Ver. Deut. Hyg. u. Mikrobiol.):226-230. Ref. Sept. 23, 1950. 448.3 C33



- 5361 HIERHOLZER, O. Pappelschäden im Langer Ried bei Ulm. *Allg. Forstz.* 5:347. Aug. 16, 1950. 99.8 AL52  
Insect pests.
- 5362 HIXSON, E. Present trends in recommendations, industry versus State and Federal agencies. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:37-39. 1950. 422.12 N81
- 5363 HOFSTEN, C. G. VON. The newly planted fall rape; some pests and their control. (In Swedish.) *Lantmannen* 34:687-688, 692. Sept. 9, 1950. 11 L234
- 5364 HOLMES, G. Band as well as spray; anti-invasion tactics against fruit tree pests. *Mod. Poultry Keeping* 63:360. Oct. 18, 1950. 47.8 Eg3
- 5365 HYMAN, J. & CO. Chlordane bibliography. *Rev. Denver*, 1949. 29 p. 423 H99
- 5366 IL'INSKIĬ, A. I. Control of injurious insects in nurseries and shelterbelts. (In Russian.) *Les i Step'* 2 (5):55-58. May 1950. 99.8 L565
- 5367 IL'INSKIĬ, A. I. Pests of acorns and measures for their control. (In Russian.) *Les i Step'* 2(6):22-25. June 1950. 99.8 L565
- 5368 INDIA. DEPT. OF AGRICULTURE. DIRECTORATE OF PLANT PROTECTION, QUARANTINE AND STORAGE. Protect food and seed grains from insects, rats & moulds. New Delhi, 1949. 26 p. 423 In25
- 5369 IVANOVA, Z. V. New preparation for extermination of storage insects. (In Russian.) *Selek. i Semen.* 17(6):51-53. June 1950. 61.9 Se5  
5-percent concentrate of benzene hexachloride.
- 5370 JAMES, W. S. A new systemic insecticide. *Amer. Fert. & Allied Chem.* 113(6):11, 28. Sept. 16, 1950. 57.8 Am3  
Systox or octamethyl pyrophosphoramidate.
- 5371 JENKINS, L. Should parathion be used in apple spray programs? (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:58. 1950. 422.12 N81
- 5372 JONES, L. W. Are insecticides toxic to soil microorganisms? *Farm & Home Sci. [Utah Sta.]* 11:58-59. Sept. 1950. 100 UtiF
- 5373 JONES, M. P. Some teaching methods successfully used by extension entomologists. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:24-25. 1950. 422.12 N81
- 5374 KALSHOVEN, L. G. E. Insects on Canna. Observations in a town garden. *Organ. Sci. Res. Indonesia.* O. S. R. P. 14:17-19. 1950. 330.9 Or3P
- 5375 KAY, K. Health problems of the new organic insecticides. *Canad. J. Pub. Health* 41:374-380. Ref. Sept. 1950. 449.8 P964  
Toxicity to humans.
- 5376 KENAGA, E. E. The insecticidal activity of various formulations of several organic toxicants with special reference to pH. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:8-10. 1950. 422.12 N81  
Lindane, parathion, and dicyclohexyl amine salt of 2-cyclohexyl-4,6-dinitrophenol.
- 5377 KING, H. How to use parathion safely. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:5-6. 1950. 422.12 N81
- 5378 KITSelman, C. H., DAHM, P. A., and BORGMANN, A. R. Toxicologic studies of aldrin (compound 118) on large animals. *Amer. J. Vet. Res.* 11:378-381. Oct. 1950. 41.8 Am3A  
Cattle and sheep.
- 5379 KNIPLING, E. F. New developments concerning residues in dairy, meat, and other food products. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:4-5. 1950. 422.12 N81
- 5380 KOVACHE, A., JEAN, H., and GARNIER, G. Étude de quelques composés organiques du phosphore, synthèse-action insecticide. *Chim. & Indus.* 64:287-299. Ref. Sept. 1950. 383 C42
- 5381 KUHN, L. Ist schädlingbekämpfung rentabel? *Anz. f. Schädlingk.* 23:9-10. Jan. 1950. 421 An9
- 5382 LEES, A. D. Entomology. *Sci. Prog. [London]* 38:735-742. Oct. 1950. 472 Si22
- 5383 LEMMON, A. B. Regulatory controls in the use of insecticides. *Calif. Mosquito Control Assoc. Proc. & Papers* 18:25-29. 1950. 428 C763  
Includes discussion.
- 5384 LENDLE, L., and SCHNEIDER, H. H. Über die Eignung des Insektizids hexachlorcyklohexan als Oxyurenmittel. *Arch. f. Expt. Path. u. Pharmakol.* 210:119-136. Ref. May 19, 1950. 448.8 Ar2
- 5385 LEPAGE, H. S., and GIANNOTTI, O. Experiments with modern organic insecticides and their effect on the cotton pests. (In Portuguese.) *Inst. Biol. São Paulo. Arq.* (1949/50)19:207-215. 1950. 442.9 Sa6  
English summary.  
Experiments with parathion, chlordane, benzene hexachloride, DDT, and toxaphene.
- 5386 LINDEN, L. VAN DER. How do we control the enemies of cauliflower culture? III. (In Dutch.) *Tuinbouwberichten* 14:101-103. July 15, 1950. 80 T817  
Insects.
- 5387 MADSEN, H. F. Worms in prunes, damage in the 1950 season result of attacks by several pests. *Calif. Agr. [Calif. Sta.]* 4(10):11-12, 14. Oct. 1950. 100 C12Cag
- 5388 MALLAMAIRE, A. Les principaux insectes nuisibles et les maladies cryptogamiques des oléagineux alimentaires en Afrique Noire. *Agron. Trop.* 5:384-396. Ref. July/Aug. 1950. 26 Ag86
- 5389 MANIS, H. C., and PORTMAN, R. W. Idaho recommendations for insect control. *Idaho. Agr. Expt. Sta. B.* 279, 71 p. June 1950. 100 Id1
- 5390 MARCHIONATTO, J. B. Evolución de los métodos de combate contra las plagas agrícolas. *Argentina. Mln. de Agr. Almanaque* 25:257-258. 1950. 9 Ag874  
Insecticide and fungicide application.
- 5391 MARTIN, H. The limitations and advantages of the new insecticides. *Westralian Farmers Co-op. Gaz.* 19:13, 15, 17-18. July-Aug. 1950. 280.28 W522
- 5392 MARTÍNEZ, R. Les nouveaux ectoparasitiques au Vénézuëla. *Off. Internat. des Epizoot. B.* 34:112-142. Ref. May 1950. 41.8 Of2  
Chlorinated hydrocarbon insecticides for control of livestock pests.
- 5393 MAURI, N. Lutte biologique ou lutte chimique? *Fruits et Primeurs de l'Afrique du Nord. Ed. Marocaine* 20:275-276. Sept. 1950. 80 F9482  
Pests.
- 5394 MAYER, E. L., and others. Tests for synergism between nicotine and phthalonitrile and between nicotine and 2,3,4,5,6-pentachloroanisole. *J. Econ. Ent.* 43:533-537. Ref. Aug. 1950. 421 J822  
E. R. McGovran, F. B. Talley, and J. J. Willaman, joint authors.
- 5395 MERKENSCHLAGER, F. Vorläufiger bericht über beobachtungen zur wirkung von E 605-präparaten durch die Institute für Obstbau und für Gärtnerische Botanik und Pflanzenschutz an der Staatl. Lehr- und Forschungsanstalt für Gartenbau in Weihenstephan. *Höfchen-Briefe f. Wiss. u. Praxis* 3(3):3-8. 1950. 464.8 H67  
English summary.
- 5396 MESHALOVA, A. D. Use of DDT against pests of grape vine. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(6):36. June 1950. 95.8 V77
- 5397 MESSENGER, K. Latest developments for application of insecticides; introductory remarks. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:10-11. 1950. 422.12 N81
- 5398 METCALF, R. L., and CARLSON, R. B. Testing systemic insecticides against citrus pests. *Calif. Citrog.* 35:506, 518. Oct. 1950. 80 C125
- 5399 MILES, V. I. Insect ectoparasites and disease. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:43. 1950. 422.12 N81  
Fleas, lice, ticks, and mites.
- 5400 MILLER, MRS. G. M. Birds for the rose garden. *Amer. Rose Mag.* 9(2):16-17. Sept./Oct. 1950. 80 Am327A  
For insect control.
- 5401 MISSIROLI, A. The control of domestic insects in Italy. *Amer. J. Trop. Med.* 30:773-783. Sept. 1950. 448.8 Am33  
Use of DDT and other insecticides against houseflies, mosquitoes, and other household pests.
- 5402 MISSIROLI, A. Control of household insects and pests of man. (In Italian.) *Soc. Mex. de Hist. Nat. Rev.* 10:145-163. Dec. 1949. 516 So15
- 5403 MORENO C., I. Las plagas del algodón y su control. *Campo [Tacuba] (ser. 2)* 18(702):50, 52, 54-63. Aug. 31, 1950. 8 C157  
Insect pests.
- 5404 MOROFOSKY, W. F. Importance of insect control on [potato] tuber yield and certification. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:21-22. 1950. 422.12 N81



5405 MUMA, M. H., and others. Control tests on sunflower insects in Nebraska. *J. Econ. Ent.* 43:477-480. Aug. 1950. 421 J822

R. N. Lyness, C. E. Claassen, and A. Hoffman, joint authors.

*Desmoris* spp., *Homoeosoma electellum*, *Diacrisia virginica*, *Estigmene acrea*, etc.

5406 MUMA, M. H., HIXSON, E., and HILL, R. E. Methods of sampling livestock parasite populations. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:18-19. 1950. 422.12 N81

5407 NAERLAND, G. Skin parasites on small stock. (In Norwegian.) *Norsk Landbr.* 16:334-337, 352-356. Sept. 1-15, 1950. 11 N8122

5408 NAUDE, S. M., VERLEGER, H., and WAAL, H. L. DE. Raman effect of the isomers of benzene hexachloride. *Nature* [London] 166:475. Sept. 16, 1950. 472 N21

5409 NEW SOUTH WALES DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Insect pests of tobacco. *Agr. Gaz. N. S. Wales* 61:415-418. Aug. 1, 1950. 23 N472

5410 OSMOLOVSKAIA, V. I. Role of birds in the destruction of insects—pests of tree plantings in Stalin-grad Region. (In Russian.) *Zool. Zhur.* 29:233-243. Ref. May/June 1950. 410 R92

5411 PACKCHIANIAN, A. The present status of Chagas' disease in the United States. *Soc. Mex. de Hist. Nat. Rev.* 10:91-101. Ref. Dec. 1949. 516 S015

Includes insect vectors.

5412 PANYCH, N. T. On the Molotov State Farm [of Abrau-Durso Combine]. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(6):32-35. June 1950. 95.8 V77

Dusting and spraying of vineyards by airplanes.

5413 PEREZ GAMBET, C. M. Valor insecticida de la *Tephrosia noctiflora* B. y de la *Tephrosia cinerea* (L.) P. La Plata. *U. Nac. Facul. de Cien. Quím. Rev.* (1947) 22:259-266. 1949. 385 L31

Summary of a thesis.

5414 PETERSON, A. G. Insecticide experiments on potatoes in Minnesota during 1949. *Amer. Potato J.* 27:319-326. Sept. 1950. 75.8 P842

5415 PETERSON, A. G. Recent potato insect research in Minnesota. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:22-23. 1950. 422.12 N81

5416 PIELOU, D. P. The effect of insecticide applications on the insect fauna and seed yield of alsike clover in southern Ontario. *Canad. Ent.* 82:141-160. Ref. July 1950. 421 C16

5417 PILGRIM, A. J. Laboratory testing of insecticides. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 3:23-24. 1949. 93.44 C122P

5418 PLANK, H. K. Insecticidal properties of some plants growing in Puerto Rico. *P. R. Fed. Expt. Sta. (Mayaguez) B.* 49, 17 p. Ref. Sept. 1950. 1 Ex65

5419 PRICKETT, C. S., KUNZE, F. M., and LAUG, E. P. Modification of the Schechter method for the determination of methoxychlor or DDT in biological materials. *Assoc. Off. Agr. Chem. J.* 33:880-886. Aug. 15, 1950. 381 As7

5420 PRINTS, I. A. I. How to control pests and diseases of grape vine. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(6):54-57. June 1950. 95.8 V77

5421 PYENSON, L. Basic facts of insect pest control. *Flower Grower* 37(4):48-49, 86-87. Apr. 1950. 80 M72

5422 PUSTOVOIT, A. F. Pests of alfalfa and millet. (In Russian.) *Selek. i Semen.* 17(5):57-60. May 1950. 61.9 Se5

5423 RAGAZZI, G. Disinfestation of granaries. (In Italian.) *Agr. Ferrarese* 54:134-135. June 30, 1950. 16 Ag87

5424 REGNIER, R. Principaux progrès accomplis dans la lutte contre les insectes et les acariens. *Vitic. Arbor.* 95:292-295. Oct. 1949. 95.8 R322

5425 RICKARD, J. A. Control of pests of sheep and goats. *Your Farm* 9(10):77-78. Oct. 1950. 6 Y8

5426 RIEMSCHEIDER, R., and OTTMANN, G. Über das sogenannte "C<sup>6</sup>-hexachlor-cyclohexan". II. *Z. f. Naturf.* 5b:246-250. July/Aug. 1950. 474 Z3

5427 RISBEC, J. La faune entomologique des cultures au Sénégal et au Soudan Français. *Lab. d'Ent. du Secteur Soudanais de Rech. Agron. Trav. I.* p. 1-507. Ref. 1950. 423 R49F

Insect pests of peanuts, millet, sorghum, corn, rice, cow-peas, cotton, roselle, fruits and vegetables, oil plants, stored products, etc.

5428 RIVERO, J. M. DEL. Acción tóxica de los insecticidas y el problema de sus residuos. *Spain. Inst. Nac. de Invest. Agron. B.* 10(22):241-254. Ref. June 1950 105.6 Sp14

English summary.

5429 RIVERO, J. M. DEL. Criolita. *Semana Vitivinic.* 5(210):18. July 8, 1950. 95.8 Se5

5430 RIVERO, J. M. DEL. Metoxicloro y lindane, dos nuevos insecticidas. *Assoc. Nac. de Ingen. Agrón. B. Ofic. (ser. 2)* 1:144-147. Ref. Mar. 1950. 58.9 As5

5431 RODRIAN. Welche erfahrungen wurden mit E 605-verbindungen im weinbau gemacht? *Höfchen-Briefe f. Wiss. u. Praxis* 3(3):11-15. 1950. 464.8 H67

5432 RODRIGUEZ, J. G., and GOULD, W. A. Effect of technical benzene hexachloride and lindane on the flavor of tomatoes and potatoes. *J. Econ. Ent.* 43:498-503. Aug. 1950. 421 J822

5433 ROMIG, G. Identification of insects in grain. *Nowest. Miller (Milling Prod. Sect.)* 244(2):15a, 17a. Oct. 10, 1950. 298.8 N81

Description of the various insects in grain.

5434 ROONEY, H. A. Report on organic thiocyanates. *Assoc. Off. Agr. Chem. J.* 33:787-788. Aug. 15, 1950. 381 As7

In insecticides.

5435 ROWE, J. A. Entomological aspects of public health problems. Introductory remarks. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:41. 1950. 422.12 N81

5436 RUDNEV, D. F. New chemicals [DDT and benzene hexachloride] for the control of pests of forest crops. (In Russian.) *Les i Step'* 2(6):18-21. June 1950. 99.8 L565

5437 RUTHERFORD, D. M. Beneficial insects at work. *Calif. Citrog.* 35:502-503, 522-523. Oct. 1950. 80 C125

Use in biological control.

5438 SAEGER, H. DE. Note sur l'emploi des super-insecticides. *Internatl. Tech. Conf. Protect. Nat. Proc. & Papers* 1949:358-360. 1950. 279.9 In85P

Widespread use of DDT, benzene hexachloride, etc., may upset balance of nature.

5439 SCALES, A. L., IVY, E. E., and RAINWATER, C. F. Preliminary evaluation of two nitroparaffin insecticides against four cotton insects. *J. Econ. Ent.* 43:560-561. Aug. 1950. 421 J822

CS-645A (2-nitro-1,1-bis(p-chlorophenyl)propane) and CS-674A (2-nitro-1,1-bis(p-chlorophenyl)butane) tested with *Anthonomus grandis*, *Heliothis armigera*, *Alabama argillacea*, and *Estigmene acrea*.

5440 SCHÄFER, W., and BÖHM, F. Schädlingssrass und mehlaußbeute. *Müllerei* 3:496-497. Aug. 12, 1950. 298.8 M91

5441 SCHMELZER, L. Public health aspects in the use of insecticides. *Calif. Mosquito Control Assoc. Proc. & Papers* 18:23-25. 1950. 428 C763

5442 SCHREIBER, A. A. Synergist "264." *Pest Control* 18(10):24. Oct. 1950. 449.8 Ex8

MGK 264 = N-(2-ethylhexyl)-bicyclo (2,2,1)-5-heptene-2,3-dicarboximid.

5443 SCHREIER, O. Vorratsschädlinge in hülsenfrüchten. *Pflanzenarzt* 3(3):7. Sept. 1950. 464.9 P482

5444 SCOTT, L. B. A report on tobacco insecticides and hazards in Tennessee. (Abs.) *Tobacco Insect Conf. Proc.* 10:4. July 27, 1950. 423.9 T55

5445 SEVERIN, H. C. Is there a trend toward de-emphasizing fundamental research in economic entomology and if so what is to be done about it? (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:39-41. 1950. 422.12 N81

5446 SIDOROV, K. Night dusting of cotton. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):43. June 1950. 281.8 K83

5447 SKERRETT, E. J., and WOODCOCK, D. Insecticidal activity and chemical constitution. II. Synthesis of some analogues of "DDT." *Chem. Soc. J.* 1950: 2718-2724. Oct. 1950. 382 L84J

5448 SLEESMAN, J. P. Low-gallonage sprays for the control of insects on potatoes. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:21. 1950. 422.12 N81

5449 SMITH, R. C. Tough life for insects to be worse in future. *Kans. Farmer* 87(18):14, 16. Sept. 16, 1950. 6 K13

Insecticides.



- 5450 SMITH, R. C. Trends in economic entomology. Introductory remarks. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:35-36. 1950. 422.12 N81
- 5451 STAHL, C. F. Precautions used by farmers when applying insecticides in North Carolina. (Abs.) Tobacco Insect Conf. Proc. 10:3. July 27, 1950. 423.9 T55
- 5452 STICKNEY, F. S., BARNES, D. F., and SIMMONS, P. Date palm [*Phoenix dactylifera*] insects in the United States. U. S. D. A. C. 846,57 p. Ref. Sept. 1950. 1 Ag84C
- 5453 SWARTWOUT, H. G. Apple foliage injury from chlorinated insecticides. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:60. 1950. 422.12 N81
- 5454 SWARTWOUT, H. G. Effect of synthetic organic insecticides on fruit finish. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:60. 1950. 422.12 N81
- 5455 TENHET, J. N. Insect control programs in stored tobacco. (Abs.) Tobacco Insect Conf. Proc. 10:5. July 27, 1950. 423.9 T55
- 5456 THOMPSON, W. L. Parathion in citrus sprays, in citrus insect control. Fla. Grower 58(10):6-7. Oct. 1950. 80 F6622
- 5457 THOMSON, A. G. Insects in food stores. Austral. Food Mfr. & Distrib. 20:38. Aug. 5, 1950. 389.8 Au7
- 5458 THOORN, J. J. E. V. D. The insecticide parathion. (In Dutch.) Succulenta 1950:74. Sept./Oct. 1950. 450 Su12
- 5459 TIEGS, O. W. The problem of the origin of insects. Austral. & New Zeal. Assoc. Advn. Sci. Rpt. 27: 47-56. 1949. 514 Au73
- 5460 TOBACCO INSECT CONFERENCE, 10th, GAINESVILLE, FLORIDA. Proceedings. Gainesville, 1950. 10 p. 423.9 T55
- 5461 TRAVIS, B. V. Known factors causing variations in results of insect repellent tests. Mosquito News 10:126-132. Sept. 1950. 421 M85
- 5462 TRENTIN, A. Practical observations on the use and efficacy of insecticidal treatments. (In Italian.) Agr. del Polesine 2:113-118. Aug. 1950. 16 Ag8222
- 5463 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Bureau of Entomology and Plant Quarantine articles published in 1949. U. S. Bur. Ent. & Plant Quar. E-808,54 p. Oct. 1950. 1.9 En83
- 5464 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Nurseries eligible until September 30, 1951 for interstate movement of rust-resistant *Berberis*, *Mahonia*, and *Mahoberberis* plants under Black Stem Rust Quarantine No. 38. Washington, 1950. 11 p. 1.967 P3N93
- 5465 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Summary of State nursery-stock shipping requirements and plant quarantines and regulations affecting interstate shipments. Illinois. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 578-14,3 p. Oct. 2, 1950. 1.9 F73
- Similar summaries for other States.
- 5466 U. S. PRODUCTION AND MARKETING ADMIN. DAIRY BR. Sanitation program for insect control. Washington, 1950? 4 p. 1.956 D14Sa5
- In dairy plants and warehouses.
- 5467 U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Grow more legume seed with pollinating insects. U. S. D. A. PA-126,2 p. June 1950. 1 Ag84Pro
- 5468 VIETINGHOFF, FREIHERR VON. Die bedeutung der gifte für die forstwirtschaft. Hannoversche Land- u. Forstwirtschaft. Ztg. 103:365. Apr. 8, 1950. 18 H194
- For insect control.
- 5469 VOLKOV, A. N. Protection of new tree plantations from pests. (In Russian.) Sovet. Agron 8(7): 73-78. July 1950. 20 So84
- Chiefly on forest insect control.
- 5470 WEAVER, C. R. Insect problems in red clover. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:55-56. 1950. 422.12 N81
- 5471 WEIDNER, H. Die wirkung der gallinsekten auf ihre wirtspflanzen. Naturwiss. Rundschau 3:364-368. Aug. 1950. 474 N216
- 5472 WEINMAN, C. J. The influence of formulation on the effectiveness of insecticides. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:8. 1950. 422.12 N81
- 5473 WENE, G. P., and WHITE, A. N. Insect control on vegetable seedlings. Tex. Farming & Citric. 27(3):9, 15. Sept. 1950. 80 T31
- 5474 WHITE, A. N. Insects are attacking small vegetables. Tex. Farming & Citric. 27(4):6. Oct. 1950. 80 T31
- 5475 WOLFE, J. W. Do you know your costs? II. Pest Control 18(10):26,28,30. Oct. 1950. 449.8 Ex8
- Bookkeeping system for pest control operators.
- 5476 WRIGHT, J. M. Phytotoxicity of new insecticides. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:23. 1950. 422.12 N81
- 5477 YUASA, K. Byogaichu no seitai to bojo "Kaju Hen" (Life history and control of parasites in fruit trees). Tokyo, Sangyo Tosho, 1950. 585 p. 464.4 Y9
- 5478 YUST, H. R. Orlon tent for citrus fumigation with hydrocyanic acid. J. Econ. Ent. 43:569. Aug. 1950. 421 J822
- 5479 ZANGHERI, S. Successes and failures in pest control. (In Italian.) Agr. Romagn. 1950(19):1. Oct. 5, 1950. 16 Ag828
- Insects and fungus diseases.
- 5490 ZWINTZSCHER, M. Obstzüchtung und schädlingbekämpfung. Höfchen-Briefe f. Wiss. u. Praxis 3(3): 15-30. 1950. 464.8 H67
- English summary.

## APICULTURE AND APIS MELLIFERA

- 5481 ALARCÓN GONZÁLEZ, J. Apicultura. Agr. Costarricense 8:329,331-333. July/Aug. 1950. 8 Ag895
- 5482 ANWYL, J. E. Queenlessness. Welsh Bee J. 5:122-124. Aug. 1950. 424.8 W462
- 5483 BAYER. Sind bienenschäden nach anwendung von kontaktinsektiziden wirklich unvermeidlich? Imkerfreund 5:149. Aug. 1950. 424.8 Im43
- 5484 BEIER, M. Der erdgeschichtliche werdegang der honigbiene. Niederöstr. Imker 1:186-191. July 1950. 424.8 N55
- 5485 BETTS, A. D. Recent advances in practice and science. Beekeeping Annu. 1950:11-12,10. 424.8 B3926
- 5486 BLOMMART, W. The advantage of marking queens. (In Dutch.) Maandschr. v. Bijenteelt 25:135-136. Sept. 1950. 424.9 V58
- 5487 BOEHM, H. Hoch und niedrig im beutenbau. Deut. Bienenztg. 5:143-145. Aug. 1, 1950. 424.8 D488
- 5488 BONE, D. Bees in London. Gleanings Bee Cult. 78:600-601. Oct. 1950. 424.8 G47
- 5489 BOSSÉ, L. Apiculture au Lac St-Jean. Abeille et l'Erable (ser. 2) 19:109-112. (To be cont.) Aug./Sept. 1950. 424.8 Ab32
- 5490 BÖTTCHER, F. K. Das kippen überholt? Der Weylsche rolltisch, ein praktisches hilfsgesetz für den oberlander-imker. Imkerfreund 5:146-147. Aug. 1950. 424.8 Im43
- 5491 BOUGARD, M. Les abeilles et les insecticides toxiques. Fruit Belge 18:122-124. Aug. 1950. 80 F9493
- 5492 BOWERING, R. H. Neuadd Reichel 1950. Welsh Bee J. 5:138-140. Sept. 1950. 424.8 W462
- Summer conference of beekeepers.
- 5493 BRINK, B. E. You - the pollination salesman. Amer. Bee J. 90:488-489,505. Nov. 1950. 424.8 Am3
- 5494 BRÜKHANENKO, A. N. On waxing frames by Popov's method. (In Russian.) Pchelovodstvo 27:244. Apr. 1950. 424.8 P295
- 5495 BRÖKER, W. E 605 und die bienen. Imkerfreund 5:148-149. Aug. 1950. 424.8 Im43
- 5496 BRÜCKNER, O. Noch einmal der blathonig. Deut. Bienenztg. 5:162-163. Sept. 1, 1950. 424.8 D488
- 5497 BURR, L. Yields of honey, high, low, and otherwise. Gleanings Bee Cult. 78:604-605. Oct. 1950. 424.8 G47
- 5498 BUTLER, C. Research on bees to solve the problems of pollination. (In Italian.) Mezzogiorno Agr. 6 (38):3. Oct. 1/7, 1950. 16 M57
- 5499 CAZI, A. K. B. Insects in relation to "Grow More Food Campaign". Poona Agr. Col. Mag. 41:131-132. Aug. 1950. 22 P79
- Bees as pollinators and insects as pests.
- 5500 CORTES, J. A. Apicultura moderna. Agr. Venezol. 15(143):24-25,28. June 1950. 9.95 Ag8



- 5501 CRAWFORD, J. R. Honey flow forecasting. *Gleanings Bee Cult.* 78:665,707. Nov.1950. 424.8 G47
- 5502 CURY, R. Diseases of bee larvae. I. American foulbrood. (In Portuguese.) *Biológico* 16:35-41. Feb. 1950. 424.8 B529
- 5503 DAUTOV, A. G. On eradicating American foulbrood in the course of one season. (In Russian.) *Pchelovodstvo* 27:238-241. Apr.1950. 424.8 P295
- 5504 DENZ, J. So habe ich erfolg. *Imkerfreund* 5: 155-156. Aug.1950. 424.8 Im43  
Colony management.
- 5505 ECKERT, J. E. The development of resistance to American foulbrood by honey bees in Hawaii. *J. Econ. Ent.* 43:562-564. Aug.1950. 421 J822
- 5506 EDWARDS, E. E. Bee races. I-II. *Welsh Bee J.* 5:114-117,131-132. Aug.-Sept.1950. 424.8 W462  
I. Italian and Cyprian; II. Other yellow strains.
- 5507 EVANS, M. B. Swarm trouble. *West. Canada Beekeeper* 13(10):10. Oct.1950. 424.8 W525
- 5508 EVENIUS. Bewahrt die bienen vor verlusten durch pflanzenschutzmittel! *Hannoversche Land- u. Forstwirtschaft.* 103:361. Apr.8,1950. 18 H194  
Insecticides.
- 5509 EVENIUS. Die bienenzucht auf der gesamtdeutschen beratung der landwirtschaft in Eisenach. *Deut. Bienenztg.* 5:148-149. Aug.1,1950. 424.8 D488
- 5510 FATTOVICH, M. La apicultura como auxiliar de la agricultura. *Argentina. Min. de Agr. Almanaque* 25:283-284. 1950. 9 Ag874
- 5511 FLANDERS, S. E. Control of sex in the honeybee. *Sci. Mon.* 71:237-240. Ref. Oct.1950. 470 Sci23
- 5512 FRANKLIN, W. W. The relation of flower color to seed setting of alfalfa. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:28. 1950. 422.12 N81  
Study of pollen-gathering honeybees.
- 5513 GANKEVICH, K. M. How to mark queens. (In Russian.) *Pchelovodstvo* 27:242-243. Apr.1950. 424.8 P295
- 5514 GODDARD, R. Shifting hives of bees. *New Zeal. J. Agr.* 81:163. Aug.1950. 23 N48J
- 5515 GOODACRE, W. A. Seasonal measures to maintain health and vitality in bees. *Agr. Gaz. N. S. Wales* 61:375-377. July 1,1950. 23 N472
- 5516 GOROSTIDI E YMAZ, A. Los escapes. *Valencia Avic.* 7(7):23-24. Aug.1950. 47.8 V23  
Bee escapes.
- 5517 GOUGET, C. W. Honey harvest from the backlot. *Gleanings Bee Cult.* 78:593-597,645. Oct.1950. 424.8 G47
- 5518 GRAHAM, B., and LE MAISTRE, W. G. Wintering techniques. *West. Canada Beekeeper* 13(10):2. Oct.1950. 424.8 W525
- 5519 GRUDACHEV, P. Bol'shie sbory meda i voska; opyt raboty peredovykh pchelovodov Kryma [High yields of honey and wax. Practices of leading beekeepers in Crimea]. *Simferopol', Krymizdat*, 1950. 103 p. 424 G92
- 5520 GRUDACHEV, P. A. The tale of a beekeeper-stakanovite. (In Russian.) *Pchelovodstvo* 27:216-219. Apr.1950. 424.8 P295  
D. I. Tikhonuk's methods of honey production.
- 5521 GUSEL'NIKOV, A. L. *Pchelovodstvo* [Beekeeping]. Ed. 2, rev. and enl. Penza, Penzenskoe Obl. Izd-vo, 1950. 540 p. 424 G97
- 5522 HANSEN, H. W. A visit to Denmark. *Amer. Bee J.* 90:498-499. Nov.1950. 424.8 Am3  
Apiculture.
- 5523 HARNEY, W. Drei kleingkeiten aus der praxis. *Deut. Bienenztg.* 5:165-167. Sept.1,1950. 424.8 D488  
1, Die amesenplage; 2, Eine besondere wirkung der heidwanderung; 3, Ist die sonnenblume in unserer gegend wirklich eine trachtplanze?
- 5524 HAWS, B. A. Proper timing of insecticide applications to prevent bee losses. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:30-31. 1950. 422.12 N81
- 5525 HEROLD, K. Die spritz- und bestäubungsschäden 1950. *Imkerfreund* 5:149-150. Aug.1950. 424.8 Im43
- 5526 HILGER, R. Die herbstreizfütterung. *Luxemburg. Bienen Ztg.* 65:122. Aug.1950. 424.8 L97
- 5527 HOSLEY, B. Cellar wintering. *Gleanings Bee Cult.* 78:679. Nov.1950. 424.8 G47
- 5528 IAKUSHKIN, I. V. On the feed supply base in beekeeping and on pollination by honeybees. (In Russian.) *Pchelovodstvo* 27:205-207. Apr.1950. 424.8 P295
- 5529 ISAACSON, C. M. The tar-paper pack. *Gleanings Bee Cult.* 78:657-661. Nov.1950. 424.8 G47  
Protecting hives through the winter.
- 5530 JAMES, E. L. B. Bee-keeping for beginners and others. *Birmingham, Eng.*, 1950. 287 p. 424 J232
- 5531 JORDAN, R. Was der imker von der milbe und ihrer bekämpfung, von der wahl der untersuchungsblenen, von der anzahl einzusendender proben und der untersucher von ihrer bearbeitung wissen müssen. *Niederösterr. Imker* 1:176-181. (Concl.) July 1950. 424.8 N55
- 5532 KANERVO, V. Apiculture and pest control. (In Swedish.) *Forsk.- och Försöksresultat* 2:28-29. May 31,1950. 20 F77
- 5533 KELLER, W. Wandern, eine existenzfrage der schweizerischen bienenzucht. *Schweiz. Bienen-Ztg.* 73: 397-398. Sept.1950. 424.8 Sch9
- 5534 KERR, W. E. Comparisons between the European bee (*Apis mellifica* [i. e. *mellifera*] L.) and native Brazilian bees (*Meliponinae*). (In Portuguese.) *Solo* 41: 39-47. Oct.1949. 9.2 So4
- 5535 KERR, W. E. Molded wax for melliponids. (In Portuguese.) *Chacaras e Quintais* 82:298-299. Sept.15,1950. 9.2 C34
- 5536 KHODOS, I. A. Again on the construction frame [in apiculture]. (In Russian.) *Pchelovodstvo* 27:245-246. Apr.1950. 424.8 P295
- 5537 KOBEL, F. Die nektartracht. *Schweiz. Bienen-Ztg. Beih.* 2:458-470. Ref. Aug.1950. 424.8 Sch9Suppl
- 5538 KORIÁKOV, F. M. A wax press for processing beeswax at the apiary. (In Russian.) *Pchelovodstvo* 27: 232-234. Apr.1950. 424.8 P295
- 5539 KOSTAREV, G. K. Broods and two-story management of honeybees. (In Russian.) *Pchelovodstvo* 27:228-229. Apr.1950. 424.8 P295
- 5540 KRASNOPPEEV, M. Z. Method of readjusting colonies with drone bees. (In Russian.) *Pchelovodstvo* 27:243-244. Apr.1950. 424.8 P295
- 5541 LANDBECK, F. Beiträge zur bienenwohnungsfrage. *Deut. Bienenztg.* 5:147-148. Aug.1,1950. 424.8 D488
- 5542 LATHAM, G. H. Queer customs and superstitions relating to beekeeping. *Gleanings Bee Cult.* 78:672-673,711. Nov.1950. 424.8 G47
- 5543 LECOMTE, J. Attraction entre reine et ouvrières d'abeilles (*Apis mellifica*). *Paris. Acad. des Sci. Compt. Rend.* 231:802-804. Oct.16,1950. 505 P21
- 5544 LEHMANN, S. Ausländische königinnen. *Deut. Bienenztg.* 5:167-168. Sept.1,1950. 424.8 D488
- 5545 LUBBERS, R. Once more: the mystery of the swarm. (In Dutch.) *Maandschr. v. Bijenteelt* 25:142. Sept.1950. 424.9 V58
- 5546 LUNDIE, A. E. Swarm control. *So. African Bee J.* 25(3):19-20. (Cont.) Aug.1950. 424.8 So82
- 5547 MCCLESKEY, C. S., and OERTEL, E. The fermentation of honey in the hive. *J. Econ. Ent.* 43:538-541. Ref. Aug.1950. 421 J822
- 5548 MCKEE, J. E. Memories. *Gleanings Bee Cult.* 78:606-607. Oct.1950. 424.8 G47  
Beekeeping experiences.
- 5549 MCNULTY, G. Desert keeper of bees. *Utah Farmer* 70:191. Oct.5,1950. 6 D45
- 5550 MASTERMAN, J. Beginning with bees. *So. Austral. Dept. Agr. J.* 53:557-561. July 1950. 23 So84
- 5551 MEDICI, M. Acariosis de las abejas. *Argentina. Min. de Agr. Almanaque* 25:237-239. 1950. 9 Ag874
- 5552 MÉDICI, M. Conclusiones de un estudio sobre acarosis de las abejas. *Charla Rur.* 134:40-41,44. Nov.1949. 9 C37
- 5553 MEDICI, M. Indicaciones prácticas para el apicultor principiante. *Argentina. Min. de Agr. Almanaque* 25:217-222. 1950. 9 Ag874
- 5554 MÉDICI, M. Reconocimiento y tratamiento de las colonias de abejas improproductivas. *Mundo Agr.* 2(15):100-101. Aug.1950. 9 M92
- 5555 MILIESHKA, P. P. Development of apiculture on the young collective farms of Lithuania. (In Russian.) *Pchelovodstvo* 27:215-216. Apr.1950. 424.8 P295



- 5556 MOFFETT, J. O. Antibiotics and European foulbrood. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:32. 1950. 422.12 N81
- 5557 MOHR, O. Abtrommeln aus mobilbeuten? Deut. Bienenztg. 5:146-147. Aug.1,1950. 424.8 D488
- 5558 MOORE, D. Mating stations. Welsh Bee J. 5: 120-122. Aug.1950. 424.8 W462
- 5559 MORKOVIN, A. Frame waxing. (In Russian.) Pchelovodstvo 27:246-247. Apr.1950. 424.8 P295
- 5560 MUSGRAVE, A. J., and SALKELD, E. H. A bibliography of honey bee toxicology. Canad. Ent. 82:177-179. Aug.1950. 421 C16
- 5561 NOGUEIRA-NETO, P. European bees in the forests of America. (In Portuguese.) Chacaras e Quintais 82:305-306. Sept.15,1950. 9.2 C34  
Introduction of *Apis mellifera*.
- 5562 NUZHIDIN, A. S. On standard beehives. (In Russian.) Pchelovodstvo 27:208-211. Apr.1950. 424.8 P295
- 5563 PADDOCK, F. B. Bee pasturage. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:31-32. 1950. 422.12 N81
- 5564 PALMER-JONES, T., and MILLER, G. E. Improving strains of bees by artificial insemination. New Zeal. J. Agr. 81:101,103-105,107-108. Aug.1950. 23 N48J
- 5565 PARK, O. W. Honey bees and legume seed set. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:27-28. 1950. 422.12 N81
- 5566 PARKER, R. L. Effects of arsenicals and chlorinated hydrocarbons on bee populations. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:28-30. 1950. 422.12 N81
- 5567 PECH, J. Ein Beitrag zur lindentracht. Deut. Bienenztg. 5:138-139. Aug.1,1950. 424.8 D488
- 5568 PEDERSEN, M. W., TODD, F. E., and LIEBERMAN, F. V. A portable field cage [to confine or exclude bees in pollination experiments]. U. S. Bur. Ent. & Plant Quar. ET-289, p. 9. Aug.1950. 1.9 En83Et
- 5569 POLHEMUS, M. S., LUSH, J. L., and ROTHENBUHLER, W. C. Mating systems in honey bees. J. Hered. 41:151-155. Ref. June 1950. 442.8 Am3
- 5570 POPOW, W. Ein Versuch, einen einheitsrahmen zu verwenden. Thür. Kleintierzüchter 4:209-210. July 31,1950. 49 T42
- 5571 POULTON, G. V. Beekeeping in Germany. Irish Beekeeper 4:172. Sept.1950. 424.8 Ir42
- 5572 RAHMAN, K. A., and SINGH, S. Variation in the tongue length of the honeybee. Indian J. Ent. 10:63-73. Ref. June 1948, pub. June 1950. 420 In23
- 5573 RAUTENBERG, H. J. Späte einfütterung. Deut. Bienenztg. 5:157-159. Sept.1,1950. 424.8 D488
- 5574 RAUTENBERG, H. J. Die verschiedenen Ursachen für flugbienenverluste. Deut. Bienenztg. 5:139-141. Aug.1,1950. 424.8 D488
- 5575 REKOVA, IU. Eliminating foulbrood at apiaries by improved management of honeybees. (In Russian.) Pchelovodstvo 27:235-238. Apr.1950. 424.8 P295
- 5576 RHEINHEIMER, O. Meine bewährte einwinterung ohne die übliche zuckerfütterung. Deut. Bienenztg. 5: 155-157. Sept.1,1950. 424.8 D488
- 5577 RIBBANDS, C. R. Autumn feeding of honeybee colonies. Bee World 31:74-76. Oct.1950. 424.8 B399
- 5578 ROBINSON, E. Winter experiment a failure. West. Canada Beekeeper 13(10):7. Oct.1950. 424.8 W525
- 5579 ROBINSON, F. A. Parathion vs. bees in the citrus grove. Amer. Bee J. 90:450-451. Oct.1950. 424.8 Am3
- 5580 ROFF, C. R. European foul brood of bees. Queensland Agr. J. 71:95-97. Aug.1950. 23 Q33
- 5581 ROOT, H. H. Growing alfalfa for seed in Utah. Gleanings Bee Cult. 78:662-664,708. Nov.1950. 424.8 G47  
Bees as pollinators.
- 5582 ROSENBERG, H. The bees and their products in legend, poetry, cult and use by people. (In Norwegian.) Birøkteren 66:112-114. (Cont.) Ref. Aug. 1950. 424.8 B53
- 5583 SADEH, D. Improving the bees in Israel. Hassadeh 30:588-590. July 1950. 26 H27
- 5584 SADLER, H. A. Bee stings for skin disease. Gleanings Bee Cult. 78:698. Nov.1950. 424.8 G47  
Treatment effective for lichen planus.
- 5585 SALKELD, E. H. Changes in the histology of the honey-bee ventriculus associated with the ingestion of certain insecticides. Nature [London] 166:608-609. Oct.7,1950. 472 N21
- 5586 SCHNEIDER-ORELLI, O. Das problem des blatthonigs. Schweiz. Bienen-Ztg. Beih. 2:471-484. Ref. Aug.1950. 424.8 Sch9Suppl
- 5587 SCHOTMAN, J. W. Letters from the apiary. I-II. (In Dutch.) Maandschr. v. Bijenteelt 25:138-139. Sept.1950. 424.9 V58
- 5588 SCHUBERT, A. Der holzstrohständer als volksbienenstock. Deut. Bienenztg. 5:135-138. Aug.1, 1950. 424.8 D488
- 5589 SCHURMANN, M. Warum verschwand die königin? Deut. Bienenztg. 5:145-146. Aug.1,1950. 424.8 D488
- 5590 SCHWARTNER, A. Herauswirtschaften höchster honigerträge in früh- und mitteltrachtgegenden. Deut. Bienenztg. 5:163-165. Sept.1,1950. 424.8 D488
- 5591 SENN, E. Was sollen wir tun? Schweiz. Bienen-Ztg. 73:395-397. Sept.1950. 424.8 Sch9
- 5592 SHADE, W. E. A backlotter who packs his bees. Gleanings Bee Cult. 78:704. Nov.1950. 424.8 G47
- 5593 SHAW, F. R. From the student's viewpoint. Gleanings Bee Cult. 78:598-599. Oct.1950. 424.8 G47  
Course in beekeeping at University of Massachusetts.
- 5594 SHCHERBINA, P. S. On readjustment of queenless colonies and replacement of queens. (In Russian.) Pchelovodstvo 27:230-231. Apr.1950. 424.8 P295
- 5595 SHERMAN, M. A. Bees, pollen, and smudge. Gleanings Bee Cult. 78:692-693. Nov.1950. 424.8 G47  
Disadvantages of smudging in almond orchards in California.
- 5596 SMITH, H. G. Hard winter conditions: timely help to colonies. Agr. Gaz. N. S. Wales 61:430-432. Aug.1,1950. 23 N472  
Assistance required by colonies of bees.
- 5597 SOLANO, R. Acariosis o nosema? Cult. Mod. 33:247-248. July 1950. 15 C89  
Spain.
- 5598 SOVESHCHANIE PO PCHELOVODSTVU PRI VSESOUZNOI AKADEMII SEL'SKOKHOZJAISTVENNYKH NAUK IMENI V. I. LENINA. Papers. (In Russian.) Pchelovodstvo 27:195-214. Apr.1950. 424.8 P295  
Conference on beekeeping.
- 5599 STEPHENSON, A. Drill-hole method of wintering bees. Gleanings Bee Cult. 78:602-603. Oct. 1950. 424.8 G47
- 5600 TASKER, C. An amateur's experience. West. Canada Beekeeper 13(10):10. Oct.1950. 424.8 W525  
Beekeeping techniques.
- 5601 TRAMONTANO, T. Why are bees Hymenoptera? The end of the myth of the mating flight. Gleanings Bee Cult. 78:702-703. Nov.1950. 424.8 G47
- 5602 TREATMENT of acarine with sulphur fumes. Welsh Bee J. 5:133-136. Sept.1950. 424.8 W462
- 5603 TSCHECHNE, G. Biologische betrachtung unserer blütenpflanzen. Deut. Bienenztg. 5:141-143,160-162. Aug.1-Sept.1,1950. 424.8 D488  
Pollen structure; flower odors as insect attractants.
- 5604 TSCHUMI, P. Über den werbetanz der bienen bei nahen trachtquellen und seine richtungsweisende bedeutung. Rev. Suisse de Zool. 57:584-590. July 1950. 410 R324
- 5605 TSVETKOVA, K. First spring tasks in an apiary. (In Russian.) Pchelovodstvo 27:223-228. Apr. 1950. 424.8 P295
- 5606 TURNBULL, W. H. Natural wintering. West. Canada Beekeeper 13(10):3-4. Oct.1950. 424.8 W525
- 5607 TUSCHHOFF, O. Mein Freudenstein-dreietager. Deut. Bienenztg. 5:159-160. Sept.1,1950. 424.8 D488
- 5608 VAN TOL FILHO, P. L. Artificial feeding for bees. (In Portuguese.) Seleç. Agr. 5(52):41-42. Aug. 1950. 9.2 Se4
- 5609 VOMSATTEL, M. Das zusetzen von königinnen, vereinigen und umweisen im spätsommer. Schweiz. Bienen-Ztg. 73:399-401. Sept.1950. 424.8 Sch9
- 5610 A WINTERING potpourri; here are three good ideas on wintering from three different parts of the country. Amer. Bee J. 90:438-439. Oct.1950. 424.8 Am3  
Try something new, by H. T. Starnes; Want to winter nucs? by M. H. Stricker; Wintering bees in Minnesota, by E. F. Bea.



5611 ZANDER, E. Können die bienen auch zweckwidrig handeln? Imkerfreund 5:147. Aug.1950. 424.8 Im43

5612 ZIKOWSKY, F. Interessantes aus dem anpassungsvermögen der biene. Osterr. Kleintierzüchter 1950:813-814. Aug.1950. 49 Os7

# ARACHNIDA, MYRIAPODA, ETC.

5613 ANGELIER, C. Hydracariens nouveaux des Pyrénées. 4-5. Paris Mus. Natl. d'Hist. Nat. B. (ser.2) 22:81-84,232-237. Jan.,Mar.1950. 410.9 P213

New species in Aturus; Lundbladia plumifera and Sperchon spp.

5614 ANGELIER, E. Hydracariens phréatiques de France. Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22:85-91,238-244. Jan.,Mar.1950. 410.9 P213

Atractides; Kongsbergia.

5615 ATTEMS, C. Die Myriopodenfauna der Ostalpen. Akad. der Wiss. Wien. Math.-Nat. Kl. Sitzber. Abt. 1 158:79-153. 1949. 510 V67

Chilopoda, Symphyla, Paupoda, Diplopoda.

5616 BAKER, E. W. Further notes on the family Paratydeidae (Acarina), with a description of another new genus [Neotydeus] and species. Wash. Acad. Sci. J. 40: 289-291. Sept.15,1950. 500 W276J

5617 BALDELLI, B., and ROMANELLI, V. Histamine content of the blood and skin and hematic eosinophilia in spontaneous mange in guinea pigs. (In Italian.) Arch. Vet. Ital. 1:325-330. Ref. Sept.30,1950. 41.8 Ar25

English summary.

Due to Sarcoptes scabiei cuniculi, i.e. Notoedres cuniculi.

5618 BEWICK, L. F. Chigger [Eutrombicula alfreddugesi] control. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:42-43. 1950. 422.12 N81

5619 BISHOP, S. C. The purse-web spider, Atypus abbotii (Walckenaer), with notes on related species. (Arachnida: Atypidae). Ent. News [Philadelphia] 61:121-124. Oct.1950. 421 En88

5620 BUSH, R. Pests and parathion. Grower [London] 34:721-723,725. Oct.7,1950. 268.83 M34

Paratetranychus pilosus(?) on fruit.

5621 CAVACEPPI, L. Systematic revision of Italian ticks. (In Italian.) Riv. di Parassitol. 11:109-111. Ref. June 1950. 436.8 R52

English summary.

5622 CHAMBERLAIN, R. W., and SIKES, R. K. Laboratory rearing methods for three common species of bird mites. J. Parasitol. 36:461-465. Oct.1950. 448.8 J824

Dermanyssus gallinae, Liponissus sylvarum, L. bursa.

5623 CHAMBERLIN, R. V. Neotropical chilopods and diplopods in the collections of the Department of Tropical Research, New York Zoological Society. Zoologica [New York] 35:133-144. Aug.1,1950. 410 2722

Includes new species in Newportia, Otostigmus, Nesondyla n.g., Glomeridesmus, Phanolene n.g., Neocricus, Rhinocricus, Amphinus Aphelidesmus, Ankylophallus, Dromodesmus, Liorhabdus n.g., Tunochilus n.g., Rhyphodesmus, Oniscodesmus, and Orthomorpha.

5624 CONDE, B. Révision de deux Polyxenidés africains décrit par Brölemann (Diplopodes Pénicillates). Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22:250-255. (To be cont.) Mar.1950. 410.9 P213

Saroxenus alluaudi.

5625 CUTRIGHT, C. R. Mite control on apples in Ohio. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:59. 1950. 422.12 N81

5626 DENIS, J. Remarques biogéographiques sur les araignées des oasis de Libye. Cong. Internatl. de Zool. Compt. Rend. (1948)13:556-559. Ref. 1949. 410.9 In8

5627 DIAKOV, F. More care for the control of ticks. (In Czech.) Časopis Českoslov. Vet. 5:307-309. July 10,1950. 41.8 C27

On livestock.

5628 DUBININ, V. B. On the specificity of feather mites [Analgesoidea] in connection with the evolution of their hosts. (In Russian.) Uspekhi Sovrem. Biol. 29:442-457. Ref. May/June 1950. 442.8 Er3

5629 ELKAN, E. Allothrombium fuliginosum. Cactus & Succulent J. Gt. Brit. 12:79. Oct.1950. 450 C113

Predator on greenhouse pests.

5630 FELDMAN-MUHSAM, B. Hibernation of the tick Hyalomma savignyi. (In Hebrew.) Refuah Vet. 7:7-9. Apr.1950. 41.8 R25

English summary, p. 36.

5631 FURMAN, D. P. New mites (Acarina: Liponysinae) from North American bats. J. Parasitol. 36:479-484. Oct.1950. 448.8 J824

New species in Ichoronyssus.

5632 GRANDJEAN, F. Les Enarthronota (Acariens). 3. Pterochthonius angelus (Berl. 1910). Ann. des Sci. Nat. Zool. et Biol. Anim. (ser.11)12:85-107. Ref. 1950. 410 An7

5633 GRANDJEAN, F. Observations éthologiques sur Camisia segnis (Herm.) et Platynothrus peltifer (Koch) (Acariens). Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22:224-231. Mar.1950. 410.9 P213

5634 GRANDJEAN, F. Observations sur les oribates. I-II. Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22: 73-80. Jan.1950. 410.9 P213

I, Phthiracarus anonymum Grandj. 1934, p. 73-78; II, A propos de Cosmochthonius plumatus Berl. 1910, p. 78-80.

5635 HINSCHBERGER, P. Contribution à l'étude des Symphytes du Mexique. Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22:256-262. (To be cont.) Mar.1950. 410.9 P213

New species in Scutigerella.

5636 HOFFMANN, A. Contribuciones al conocimiento de los Trombiculidos mexicanos. I. Soc. Mex. de Hist. Nat. Rev. 10:185-190. Dec.1949. 516 So15

English summary.

New species in Trombicula.

5637 HOFFMANN, A. Contribuciones al conocimiento de los Trombiculidos mexicanos. 2. Ciencia 10: 148-153. Aug.5,1950. 475 C48

English summary.

New species in Trombicula.

5638 HOFMASTER, R. N., and DANIELSON, L. L. Toxicity of dinitro ortho secondary amyl phenol to the two-spotted spider mite [Tetranychus bimaculatus] on strawberry plants. J. Econ. Ent. 43:561-562. Aug.1950. 421 J822

This article is repeated with slightly different title and minor textual changes on p. 568-569.

5639 HYLAND, K. E., JR. The copperhead snake as a host for the chigger mite Trombicula (Eutrombicula) alfreddugesi. J. Parasitol. 36:494. Oct.1950. 448.8 J824

5640 JANCKE, O. "Rote spinne" an reben und E 605. Höfchen-Briefe f. Wiss. u. Praxis 3(3):8-11. 1950. 464.8 H67

English summary.

Tetranychus althaeae and Paratetranychus pilosus.

5641 JEPSON, L. R., JESSER, M. J., and COMPTON, J. O. Field studies in control of mites injurious to citrus. Calif. Citrog. 36:3,21-22. Nov.1950. 80 C125

Similar title in Citrus Leaves 30(11):6-7,24,26,33-34. Nov.1950. 80 C492

5642 JONES, B. M. The penetration of the host tissue by the harvest mite, Trombicula autumnalis Shaw. Parasitology 40:247-260. Ref. Oct.1950. 448.8 P21

5643 KNIPLING, E. F. Control of ticks on dairy cattle. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:15. 1950. 422.12 N81

5644 KOLOSÁRY, G. The biogeography of the spiders of Transsylvania. Cong. Internatl. de Zool. Compt. Rend. (1948)13:561. 1949. 410.9 In8

5645 LEGRAND, J. J. Sexualité des isopodes terrestres. Cong. Internatl. de Zool. Compt. Rend. (1948)13:174-175. 1949. 410.9 In8

5646 LOPES, H. DE S., and MACEDO, J. N. On the presence of Otocentor nitens (Neumann, 1897) in the valley of the Rio São Francisco, Brazil (Acarina, Ixodidae). (In Portuguese.) Rev. Bras. de Biol. 10:59-64. Ref. May 1950. 442.8 R326

5647 MCARDLE, A. A. Red mites [Dermanyssus gallinae]—hidden enemy of poultry. Australas. Poultry World 22:39. Aug.1,1950. 47.8 Au72

5648 MCDUFFIE, W. C., and others. Field studies with insecticides to control the lone star tick [Amblyomma americanum] in Texas. J. Econ. Ent. 43:520-527. Aug. 1950. 421 J822

G. W. Eddy, J. C. Clark, and C. N. Husman, joint authors.



- 5649 MCGREGOR, E. A. Mites of the family Tetranychidae. Amer. Midland Nat. 44:257-420. Ref. Sept. 1950. 410 M58  
Includes new species in Eutetranychus, Neotetranychus, Tetranychus, Schizotetranychus, Septanychus, Paratetranychus, Tetranychina, Pseudobryobia n.g., and Allochaetophora n.g.; also the new genera Hystrichonychus and Simplonychus.
- 5650 MAGALHÃES, O. DE. Percentage of ticks carrying, in nature, the V. B., V.A., and V.A., races of neotropical exanthematic typhus in Brazil. (In Portuguese.) Brasil-Med. 64:85-86. June/July 1950. 448.8 B73
- 5651 MEYER, M. C. Parasites of muskrats in Maine. Amer. Midland Nat. 44:467-477. Ref. Sept. 1950. 410 M58  
Includes trematodes, cestodes, nematodes, and one mite, Laelaps multispinosus.
- 5652 MOHAMMED, A. H. Physiological action of the toxin of the Egyptian scorpion. Nature [London] 166: 734-735. Oct. 28, 1950. 472 N21
- 5653 MURGATROYD, J. H. The spider population of disused bee-hives. Ent. Mon. Mag. 86:251. Aug. 1950. 421 En86
- 5654 NAMYSŁOWSKA, A. In preliminary investigations on the ecology of the ticks of the family Ixodidae, from the National Park in Białowieża. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. C 5:89-134. Ref. July 25, 1950. 512 L96Ac  
English summary.
- 5655 NEISWANDER, R. B. New miticides for greenhouses. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:59-60. 1950. 422.12 N81
- 5656 NEW SOUTH WALES DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Insect pests. Agr. Gaz. N. S. Wales 61:369-371. July 1, 1950. 23 N472  
Eriophyes vitis, Tenuipalpus californicus, and Calepitrimerus vitis.
- 5657 NEWTON, J. H. Orchard mites in Colorado. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:58-59. 1950. 422.12 N81  
Bryobia praetiosa and Tetranychus bimaculatus.
- 5658 PEREIRA, C., and CASTRO, M. P. DE. Revision of the subfamily Ptilonyssinae, and description of some new species. (In Portuguese.) Inst. Biol. São Paulo. Arq. (1949/50) 19:217-235. 1950. 442.9 Sa6  
English summary.  
New species in Ptilonyssus and Neonyssus.
- 5659 PEROTTI, R. M. Profilaxis de la argasidosis y erradicación del Argas persicus. Argentina. Min. de Agr. Almanaque 25:333-336. 1950. 9 Ag874  
On poultry.
- 5660 PEYER, E. Die kräuselkrankheit an den reben. Schweiz. Z. f. Obst- u. Weinbau 59:220-221. June 10, 1950. 80 Sch9  
Due to Phyllocoptes vitis.
- 5661 RADFORD, C. D. The mites (Acarina) parasitic on mammals, birds and reptiles. Parasitology 40: 366-394. Ref. Oct. 1950. 448.8 P21
- 5662 RADFORD, C. D. A revision of the fur mites Myobiidae (Acarina). Paris Mus. Natl. d'Hist. Nat. B. (ser. 2) 22:219-223. (Cont.) Mar. 1950. 410.9 P213  
Radfordia trouessarti and R. michaeli.
- 5663 RATH. Die rote spinne. Tetranychus althaeae. Gart.-Z. Illus. Flora 73:84. July 1950. 80 G1991
- 5664 REMY, P. A. Pauropodes argentins récoltés par M. Julio A. Rosas Costa dans le Territoire de Misiones. Paris Mus. Natl. d'Hist. Nat. B. (ser. 2) 22:245-249. (To be cont.) Mar. 1950. 410.9 P213  
Includes new species in Allopauropus and Scleropauropus.
- 5665 RODRIGUEZ, J. G., and NEISWANDER, R. B. Control of the spruce mite [Paratetranychus ununguis]. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:60-61. 1950. 422.12 N81
- 5666 ROIVAINEN, H. Eriophyid news from Sweden. Acta Ent. Fenn. 7:51 p. Ref. 1950. 421 Ac8  
New species in Aceria, Eriophyes, Phytoptus. Paraphytoptus, Vasates, Phyllocoptes, Tegenotus, Epitrimerus, Calepitrimerus, and Rhyncaphytoptus; also many new combinations.
- 5667 SERFATY, A., and VACHON, M. Quelques remarques sur la biologie d'un scorpion de l'Afghanistan: Buthotus alticola (Pocock). Paris Mus. Natl. d'Hist. Nat. B. (ser. 2) 22:215-218. Mar. 1950. 410.9 P213
- 5668 SIDKY, M. M. Epidemiology of Q fever. World Health Organ. B. 2:563-579. Ref. 1950. 449.9 W892B  
Role of ticks in transmission.
- 5669 SMITH, K. G. V. Mites [Calypostoma lynceum] on Limonia tripunctata F. (Dipt. Tipulidae). Soc. Brit. Ent. J. 3:211-212. Aug. 21, 1950. 420 En85J
- 5670 SMITH, L. M., and STAFFORD, E. M. Grape bud mite [Eriophyes vitis] problem; seven symptoms of vineyard infestation which bud mite may produce on vines. Calif. Agr. [Calif. Sta.] 4(9):3-4. Sept. 1950. 100 C12Cag
- 5671 STARKOFF, O., and STARKOFF, I. Contribution to a knowledge of the mites of Rome and its environs. II. Suborders Sarcoptiformes and Prostigmata. (In Italian.) Riv. di Parassitol. 11:85-101. Ref. June 1950. 436.8 R52  
English summary.
- 5672 THULLBERY, H. A. The prevention of damage from purple mites [Paratetranychus citri]. Citrus Mag. 13(2):19. Oct. 1950. 80 C498
- 5673 TODD, V. Prey of harvestmen (Arachnida, Opiliones). Ent. Mon. Mag. 86:252-254. Ref. Aug. 1950. 421 En86
- 5674 VACHON, M. Études sur les scorpions. III-IV. Inst. Pasteur d'Algérie. Arch. 28:152-216. June 1950. 448.3 In7A  
III, Description des scorpions du Nord de l'Afrique, (Concl.), p. 152-193; IV, Biogéographie des scorpions du Nord de l'Afrique (Bérbérie et Sahara), p. 194-216.  
Includes Mesobuthus n.g., Odontobuthus n.g., Scorpio, and Euscorpius.
- 5675 VACHON, M. Remarques préliminaires sur l'alimentation, les organes chélicériens, le biberon et la tétine de l'embryon du scorpion: Ischnurus ochropus C. L. Koch (Scorpionidae). Arch. de Zool. Expt. et Gén. 86:137-156. Ref. May 15, 1950. 410 Ar24
- 5676 WEYER, F. Zur übertragung des Q-fiebers. Zentbl. f. Bakt. Parasitenk. Infektkrank. u. Hyg. Abt. I. Orig. 154 (Ber. über die 2. Tagung der Freien Ver. Deut. Hyg. u. Mikrobiol.): 165-172. Ref. Sept. 23, 1950. 448.3 C33  
Includes discussion.  
Role of ticks in transmitting Coxiella burnetii.
- 5677 WILSON, S. G. A check-list and host-list of Ixodoidea found in Nyasaland. B. Ent. Res. 41:415-428. Ref. Sept. 1950. 421 B87
- 5678 YOUNG, H. J. La viruela de los lechones. Assoc. Rur. del Uruguay Rev. 77(8):107. Aug. 1950. 9.9 As5  
Haematopinus suis as vector.
- 5679 ZAVATTARI, E. Legendary animals: the sulcide of the scorpion. (In Italian.) Ital. Agr. 87:476-478. Aug. 1950. 16 It1
- 5680 ZUMPT, F. Notes on parasitic mites. I. Some remarks on the family Laelaptidae (sensu Vitzthum 1943) with descriptions of three new species from African rodents. Parasitology 40:298-303. Ref. Oct. 1950. 448.8 P21  
New species in Hypoaspis.

## COLEOPTERA

- 5681 ALLEN, E. R., and NEILL, W. T. Cleaning mammal skeletons with meal worms [Tenebrio sp.]. J. Mammal. 31:464. Nov. 1950. 410 J823
- 5682 ALLEN, N. Wireworm control experiments at Florence [South Carolina]. (Abs.) Tobacco Insect Conf. Proc. 10:9. July 27, 1950. 423.9 T55
- 5683 ARROW, G. J. Coleoptera, Lamellicornia, v. 4. Lucanidae and Passalidae. London, Taylor & Francis, 1950. 274 p. (Sewell, R. B. S., ed. The fauna of India, including Pakistan, Ceylon, Burma and Malaya.) 427 Ar6C
- 5684 BARNES, D. F. Information on beetles infesting figs. Calif. Fig Inst. Proc. Annu. Res. Conf. 3:21-23. 1949. 93.44 C122P  
Carpophilus hemipterus; C. dimidiatus; Haptoncus luteolus.
- 5685 BASDEN, J. F. A method of distinguishing the larval stages of Agriotes sputator (L.) (Col., Elaterid.). B. Ent. Res. 41:395-413. Ref. Sept. 1950. 421 B87
- 5686 BASILEWSKY, P. Description d'un Orinodromus nouveau des hauts sommets du Kilimandjaro (Col. Carabidae). Soc. Ent. de Belg. B. & Ann. 86:118-120. Mah 6, 1950. 420 B41



- 5697** BASILEWSKY, P. Études sur les chlaeniens [Callistinae] d'Afrique. (Col. Carabidae). II. Soc. Ent. de Belg. B. & Ann. 86:40-54. Mar.5,1950. 420 B41  
Includes new genera Capschlaenius, Leptochlaenius, Baldochlaenius, Chlaeniodromus, Orinochlaenius, and Callistoderus; also new tribes Proclitini, Plerotitini, Callistoidini, and Harpaglossini.
- 5698** BATSYLEV, E. Colorado potato beetle. (In Russian.) Kolkhoz. Proizvodstvo 10(6):29. June 1950. 281.8 K83
- 5699** BEAL, R. S., JR. Systematic notes on the genus *Formicilla* in the United States and Mexico. Pan-Pacific Ent. 26:122-130. July 1950. 421 P193
- 5690** BELOSELSKAIA, Z. G. DDT in the control of clover weevil [Apion apricans]. (In Russian.) Vsesoiūzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(6):30-33. 1950. 20 Akl
- 5691** BERAN, F. Achtung auf kartoffelkäfer [Leptotarsa decemlineata] bei der ernte! Pflanzenarzt 3(9):2-3. Sept.1,1950. 464.9 P482  
In Austria.
- 5692** BERIM, N. G., and EDEL'MAN, N. M. Ways of overcoming the physiological resistance of insects to dichlorodiphenyltrichloroethane (DDT) and hexachlorocyclohexane. (In Russian.) Akad. Nauk SSSR. Dok. 73:425-428. July 11,1950. 511 P444A  
Experiments with *Opatrum sabulosum* and *Blaps lethifera*.
- 5693** BLAIR, K. G. *Nebria nivalis* Paykull (Col., Carabidae) in Scotland. Ent. Mon. Mag. 86:220-222. July 1950. 421 En86
- 5694** BLAIR, K. G. Some northern British Coleoptera, including *Nebria nivalis* Payk., a carabid species not hitherto known from Britain. Ent. Mon. Mag. 86:219-220. July 1950. 421 En86
- 5695** BLOCH, D. Crucial year for beetle [Dendroctonus engelmanni] control. Green Thumb 7(10):24-26. Oct.1950. 80 G82
- 5696** BOSQ, J. M. Los "corta palo" *Oncideres* spp. (Coleopteros, "Cerambycidae", "Lamiinae"). Argentina. Min. de Agr. Almanaque 25:405-409. Ref. 1950. 9 Ag874
- 5697** BOUHIER DE L'ÉCLUSE, R. L'action "hanneton" 1950 dans Le Valais. Phytoma 3(18):18-20. July/Aug.1950. 464.8 P563  
*Melolontha* control.
- 5698** BOVEY, P. L. "opération hanneton" d'Etré-pagny, en France, et ses résultats. Rev. Romande d'Agr., de Vitic. et d'Arbor. 6:59-61. Aug.1950. 17 J82A
- 5699** BRAUNS, A. Zwerghirschkäfer [Dorcus parallelipedus] als schädling im grubenholz. Norddeut. Holzwirt. 4(34):1. Aug.24,1950. 99.82 N75
- 5700** BREUNING, S. Descriptions de nouveaux Lamiaires le l'Inde (Coleoptères). Indian Forest Rec. New Ser. Ent. 7:255-265. 1950. 99.8 In22E  
English summary.  
New species in *Pothyne*, *Trichopothyne*, *Hyllisia*, *Glenea*, and *Nupserha*.
- 5701** BROUSSARD, A. E. Vest pocket lab on the campus of Southwestern Louisiana Institute, Lafayette. Prog. Farmer, Miss.-Ark.-La. Ed. 65(10):126-131. Oct. 1950. 6 So81  
Research for the control of *Cylas formicarius elegantulus*.
- 5702** BRYANT, G. E. New species of Chrysomelidae from New Guinea, collected by Miss L. E. Cheesman. Ann. & Mag. Nat. Hist. (ser.12):3:744-750. (Cont.) Sept. 1950. 410 An77  
Includes new species in: *Schenklingia*, *Amphimeloides* and *Nonartha*.
- 5703** CANNON, F. M. The potato flea beetle [Eptitrix cucumeris]. Canada. Sci. Serv. Div. Ent. Processed P. 94,4 p. Sept.1949. 423.92 C16P
- 5704** CHANDLER, S. C. Plum curculio on apple and peach. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:57-58. 1950. 422.12 N81
- 5705** CROWSON, R. A. The classification of the families of British Coleoptera. Ent. Mon. Mag. 86:274-288. (Cont.) Sept.1950. 421 En86  
Superfamily 3: *Staphylinoidea*.
- 5706** DARLINGTON, P. J., JR. Two new paussid beetles from the Panama Canal Zone and the Philippines. Psyche 57:68-71. June 1950. 421 P95  
In Homopterus and Paussus.
- 5707** DOMINICK, C. B. Green June beetle [Cotinis nitida] control. (Abs.) Tobacco Insect Conf. Proc. 10:7. July 27,1950. 423.9 T55
- 5708** DUNNAM, E. W., and CALHOUN, S. L. Artificial defoliation of cotton and boll weevil [Anthonomus grandis] control. J. Econ. Ent. 43:488-490. Aug.1950. 421 J822
- 5709** DUPREE, M., and BECKHAM, C. M. Progress report—control of cowpea curculio [Chalcodermus aeneus]. Ga. Agr. Expt. Sta. Mimeog. Ser. 16,7 p. Feb.20,1950. 100 G29M
- 5710** DUTERME, J. Essai de lutte contre l'hylobe [Hylobius abietis] par l'hexachlorocyclohexane C<sub>6</sub>H<sub>6</sub>Cl<sub>6</sub>. Soc. Cent. Forest. de Belg. B. 57:382-386. Oct.1950. 99.9 B83
- 5711** EYNDHOVEN, G. L. VAN. Observations on *Scarabaeus semipunctatus* (Col.) and *Mantis religiosa* (Orth.). (In Dutch.) Nederland. Ent. Ver. Verslag en Wetensch. Meded. 1950:xxii-xxiv. May 1,1950. 420 N28V
- 5712** FAGEL, G. Staphylinidae intéressants de Belgique. Soc. Ent. de Belg. B. & Ann. 86:59-61. May 6, 1950. 420 B41
- 5713** FAGGIOLI, D. Entomological notes. VIII. (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49)17:196-201. 1950. 420 B63  
*Gracilia minuta*; *Leptidea brevipennis*.
- 5714** FERNANDO, W. Notes on the alimentary canal and Malpighian tubules of the firefly (*Luciola mauretanica*). Ceylon J. Sci. Sect. B: Zool. 24:49-59. May 12, 1950. 410 C33
- 5715** FINLAYSON, L. H. Mortality of *Laemophloeus* (Coleoptera, Cucujidae) infected with *Mattesia dispersa* Naville (Protozoa, Schizogregarinaria). Parasitology 40:261-264. Oct.1950. 448.8 P21
- 5716** FIORI, G. Contributions to a morphological ethological knowledge of the Coleoptera. I-IV. (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49)17:180-195,234-274. Ref. 1950. 420 B63  
I, *Mycetochara linearis* Illig. (Alleculidae), p. 180-187; II, *Lachnaea italica* Weise (Chrysomelidae), p. 188-195; III, The larvae of *Acilius sulcatus* L. and of *Cybister lateralmarginalis* De Geer (Dytiscidae), p. 234-264; IV, *Cantharis livida* Lin. (Cantharidae), p. 265-274.
- 5717** FIORI, G. Ethological research on *Laemophloeus minutus* Oliv. (Coleoptera-Cucujidae). (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49)17:202-208. 1950. 420 B63
- 5718** FIORI, G. The Italian *Byrrhus* L. s. str. (Coleoptera-Byrrhidae). (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49)17:1-21. 1950. 420 B63
- 5719** FLUITER, H. J. DE. *Hirsutella fusiformis* Speare as a parasite of the gray fir snout-beetle, *Brachyderes incanus* L. (In Dutch.) Ent. Ber. 13:113-115. Ref. Aug.1,1950. 420 N38B
- 5720** FLUITER, H. J. DE. *Monochamus* (*Monochamus*) *galloprovincialis* Oliv. (Col., Cerambycidae). (In Dutch.) Ent. Ber. 13:135-136. Sept.1,1950. 420 N38B  
English summary.
- 5721** FOCARILE, A. First contribution to a knowledge of the palaearctic *Trechini*. (Coleoptera: Carabidae). (In Italian.) Soc. Ent. Ital. B. 79:71-79. Dec.30,1949. 420 It1  
Includes new species and forms in *Trechus*.
- 5722** FOCARILE, A. Some notes on *Italodytes stammeri* Müller (Coleoptera: Carabidae). (In Italian.) Soc. Ent. Ital. B. 79:49-52. Nov.10,1949. 420 It1
- 5723** FRANCISCOLO, M. Notes on some Mordellidae (12th contribution to a knowledge of the Mordellidae) (Coleoptera: Heteromera). (In Italian.) Soc. Ent. Ital. B. 79:52-58. Nov.10,1949. 420 It1  
Includes new species in *Mordellistena*.
- 5724** FRIGERIO, J. C. "El bicho moro" plaga de la papa. Pampa Argentina 23(273):14. Aug.1950. 9 P19  
*Epicauta adspersa*.
- 5725** GAMBRELL, F. L., and STRICKLAND, L. F. Control of white grubs in nursery plantings. J. Econ. Ent. 43:550-552. Aug.1950. 421 J822
- 5726** GHESQUIERE, J. Dispersion géographique de l'*Uromascus spathuleus* Ghesquière (Col. Curculionidae). Soc. Ent. de Belg. B. & Ann. 86:62. May 6,1950. 420 B41
- 5727** GIRAUD, E. Au sujet du mode d'emploi de H.C.H. et de S.P.C. sur tabac; réponse à M. de Gardelle. Rev. Internat. des Tabacs 25:147,149-150. Aug./Sept. 1950. 69.8 R324  
For control of *Elaterridae*.
- 5728** GOOSSEN. Die kornkäferbekämpfung [Sitophilus granarius] ist einfach. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1148-1149. Aug.24,1950. 18 L2346



- 5729 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Chafer beetles. Gt. Brit. Min. Agr. & Fisheries. Adv. L. 235,4 p. Aug.1950. 10 G79La  
Melolontha vulgaris, Amphimallon solstitialis, Phyllopertha horticola, and Cetonia aurata.
- 5730 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Flea beetles. Gt. Brit. Min. Agr. & Fisheries. Adv. L. 109,4 p. Aug.1950. 10 G79La  
Phyllotreta spp., Chaetocnema concinna.
- 5731 GREEN, J. A biometric study of Chrysolina polita (L.) (Col., Chrysomelidae). Ent. Mon. Mag. 86:257-259. Sept.1950. 421 En86
- 5732 GRESSITT, J. L. Two new Oriental prionids of the genus Megopis (Coleoptera: Cerambycidae). Pan-Pacific Ent. 26:134-136. July 1950. 421 P193
- 5733 GRIMES, P. S. A new distribution record for Pleocomma behrensi (Coleoptera: Scarabaeidae). Pan-Pacific Ent. 26:118. July 1950. 421 P193
- 5734 HABU, A. On some cave-dwelling Carabidae from Japan (Coleoptera). Mushi 21:49-53. May 20, 1950. 421 M97  
Includes new species in Ishikawatrechus n.g., Ryugadous n.g., and Spodropsis.
- 5735 HAGET, A. Mise en évidence, dans la blastule de Leptinotarsa [decemlineata] (Insecte, Col.) d'une zone indispensable au développement embryonnaire normal. Soc. de Biol. Compt. Rend. 144:972-974. July 1950. 442.9 P21
- 5736 HATCH, M. H. Studies on the Coleoptera of the Pacific Northwest. II. Carabidae: Bembidiini. Pan-Pacific Ent. 26:97-106. July 1950. 421 P193  
New species in Bembidion.
- 5737 HAWKINS, C. N. Atheta (Metaxya) brisouti Harold (Coleoptera, Staphylinidae): a species new to Britain. Entomologist 82:53. Mar.1949. 421 En8
- 5738 HEMPHILL, D. D. Do you have strawberry crown borers [Tyloclerum fragariae]? Mo. State Hort. Soc. Hort. News 1950:6. Oct.1950. 81 M692H
- 5739 HENNIG, Mylecoetus [i. e. Hylecoetus]-befall an nadelholz. Weltholzwirtschaft 2:68-69. Apr.1950. 99.82 W46  
Hylecoetus dermestoides and H. flabellicornis.
- 5740 HENSILL, G. S. Wireworm control by lindane seed treatment. West. Grower & Shipper 21(11):28-29, 34,37. Oct.1950. 280.38 W52
- 5741 HODGE, C. R. Tests with parathion against green June beetle larvae [Cotinis nitida] and mole crickets. (Abs.) Tobacco Insect Conf. Proc. 10:6-7. July 27, 1950. 423.9 T55
- 5742 HOWE, R. W. Studies on beetles of the family Ptinidae. III. A two-year study of the distribution and abundance of Ptinus tectus Boield. in a warehouse. B. Ent. Res. 41:371-394. Sept.1950. 421 B87
- 5743 IAKOVLEV, B. Colorado potato beetle and measures to prevent its penetration into U.S.S.R. territory. (In Russian.) Sovet. Agron. 8(7):15-23. July 1950. 20 So84
- 5744 INAGAKI, K. Effect of temperature upon the mortalities and other physiological characters of Epilachna sparsa orientalis Dieke and Epilachna niponica Lewis. (In Japanese.) Oyo-Kontyu 5:169-176. Ref. Mar. 1950. 421 Oy6  
English summary.
- 5745 INOUE, M. Studies on larch beetle [Ips cembrae]. I. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:112. Apr.25, 1950. 99.8 N62
- 5746 ISHII, S. Studies on the host-plants of cowpea weevil [Callosobruchus chinensis L.]. V. Phaseolus vulgaris contains possibly some substances hindering the development of C. chinensis L. (In Japanese.) Oyo-Kontyu 5:87-92. Dec.1949. 421 Oy6  
English summary.
- 5747 JANSSENS, A. Coléoptères Scarabaeidae nouveaux pour la faune belge. Soc. Ent. de Belg. B. & Ann. 86:61-62. May 6, 1950. 420 B41  
In Rhizotrogus and Hophia.
- 5748 JANSSENS, A. Un Onthophagus nouveau pour la faune belge : Onthophagus illyricus (Scopoli). Soc. Ent. de Belg. B. & Ann. 86:34-35. Mar.5, 1950. 420 B41
- 5749 JANSSENS, A. Paussus dichrous Em. Janssens. Soc. Ent. de Belg. B. & Ann. 86:66. May 6, 1950. 420 B41
- 5750 JOLIVET, P. Belyneia spinosa nov. gen., nov. sp. (Col. Chrysomelidae). Soc. Ent. de Belg. B. & Ann. 86:36-39. Mar.5, 1950. 420 B41
- 5751 JONES, J. C. The normal hemocyte picture of the yellow mealworm, Tenebrio molitor Linnaeus. Iowa State Col. J. Sci. 24:355-361. Apr.1950. 470 Io9
- 5752 KAMP, H. J. Zur kenntnis des larchenbocks (Tetropium gabrieli Wse.). Allg. Forstz. 5:334-335. Aug.2, 1950. 99.8 AL52
- 5753 KAPUR, A. P. A new species of Stethorus Weise from India (Coleoptera: Coccinellidae). Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:148-149. Oct.18, 1950. 420 L84Pb
- 5754 KERSTING. Der rässelkäfer [Hylobius abietis] gefährdet die fichtenpflanzungen. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1051. Aug.3, 1950. 18 L2346
- 5755 KRIEG, H. Auftreten und bekämpfung des kartoffelkäfers [Leptinotarsa decemlineata]. Seifen-Öl-Fette-Wachse 76:409-410. Aug.30, 1950. 307.8 Se4
- 5756 KUHN, R., LOW, I., and GAUHE, A. Über das alkaloid-glykosid von Lycopersicum esculentum var. pruniforme und seine wirkung auf die larven des kartoffelkäfers [Leptinotarsa decemlineata]. Chem. Ber. 83:448-455. Aug.1950. 384 B45
- 5757 LADEIRO, J. M. Bruchídeos, Antríbrídeos, Brentídeos e Nemoníquídeos portugueses do Museu Zoológico da Universidade de Coimbra [Portuguese Bruchidae, Anthribidae, Brenthidae, and Nemonychidae of the Zoological Museum of the University of Coimbra]. Coimbra U., Mus. Zool. Mem. e Estud. 199,10 p. Ref. 1950. 410.9 C66
- 5758 LAIBACH, E. Der nashornkäfer Oryctes nasicornis L. und seine entwicklung. Höfchen-Briefe f. Wiss. u. Praxis 3(3):31-39. 1950. 464.8 H67
- 5759 LAMB, K. P. The Australian carpet beetle, Anthrenocerus australis (Hope) (Col., Dermestidae), in New Zealand. Ent. Mon. Mag. 86:228-230. Ref. Aug. 1950. 421 En86
- 5760 LAWSON, F. A. Biology of Gastrophysa cyanea Melsh. (Coleoptera: Chrysomelidae). Ohio J. Sci. 50:221-228. Sept.1950. 410 Oh3
- 5761 LEPAGE, H. S., and GIANNOTTI, O. The toxic activity of some modern insecticides against the coffee borer "Hypothenemus [L. Stephanoderes] hampei (Ferrari)." (In Portuguese.) Inst. Biol. São Paulo. Arq. (1949/50):19:299-308. 1950. 442.9 Sa6  
English summary.  
Tests with DDT, benzene hexachloride, parathion, and chlordane.
- 5762 LEPESME, P. Lamiales nouveaux de l'Ouest Africain (Col. Ceramb.). II. Paris Mus. Natl. d'Hist. Nat. B. (ser.2):22:92-94. Jan.1950. 410.9 P213  
New species and forms in Sternotomis, Ceroplessis, and Frea.
- 5763 LEPESME, P. Un nouveau genre de Tragocephalini (Col. Cerambycidae), Falsonyctopais. Cong. Internatl. de Zool. Compt. Rend. (1948):13:473-474. 1949. 410.9 In8
- 5764 LUKASH, I. I. New methods for the control of the hemp flea beetle [Psylliodes attenuata]. (In Russian.) Sovet. Agron. 8(6):87-90. June 1950. 20 So84
- 5765 MAERCKS, H. Versuche zur drahtwurmbe-kämpfung mit hexa- und estermitteln. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 56:385-392. Ref. Oct./Dec.1949. 464.8 Z3  
Benzene hexachloride and parathion preparations tested on Agriotes lineatus.
- 5766 MARANHÃO, Z. C. Sitophilus insects. (In Portuguese.) Solo 41:65-70. Oct.1949. 9.2 So4  
Anatomy and physiology.
- 5767 MARSHALL, SIR G. A. K. New Curculionidae (Col.) from Tropical Africa. Ann. & Mag. Nat. Hist. (ser.12):3:725-743. Sept.1950. 410 An77  
New species in: Lipsanus, Cimbores n.g., Neosphrigo-des, Epipedosoma, Diaecoderus, Isanates, Systates, Nematocerus, Hipporrhinus, and Pseudomesites.
- 5768 MARSHALL, SIR G. A. K. On the West African species of Echinocnemus Schönh. (Col., Curcul.). Ann. & Mag. Nat.-Hist. (Ser.12):3:765-774. Sept.1950. 410 An77
- 5769 MATHUR, R. N. The larva of Dinoderus bifoveolatus Woll. (Coleoptera : Bostrichidae). Indian J. Ent. 10:1-4. June 1948, pub. June 1950. 420 In23



5770 MERKER, E. Fortschritte der schädlingsbekämpfung im walde. Allg. Forst- u. Jagdztg. 121:144-150. 1950. 99.8 AL3

Experiments on *Ips typographus*.

5771 MONOD, T. Sur une maladie des Ficus des rues de Dakar. Notes Africaines 47:69-70. July 1950. 475 N84

*Petrognatha gigas* attacking *Ficus retusa*.

5772 MONTE, T. DE. On Bembidion (Philochthus) aeneum Germ. and escherichi Ganglb. (Coleoptera: Carabidae). (In Italian.) Soc. Ent. Ital. B. 79:82-86. Dec.30,1949. 420 It1

5773 MORGAN, S. R., and LYONS, T. Refined benzene hexachloride in tomato planting water controlled wireworm [Limonius] without imparting off-flavor to processed tomatoes. South. Canner & Packer 11(10):8-10,22. Oct.10,1950. 389.8 So82

5774 MÜLLER, F. P. Über das zahlenverhältnis der geschlechter beim kartoffelkäfer (Leptinotarsa decemlineata Say) im freiland. Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n.s.):4:141-146. Ref. Aug.1950. 464.9 N11

5775 MÜLLER, G. Ninth contribution to a knowledge of the genus Staphylinus (Coleoptera: Staphylinidae). (In Italian.) Soc. Ent. Ital. B. 80:8-11. Mar.30,1950. 420 It1

5776 MÜLLER, G. Notes on Asida from Pelagosa, Pomo, and other reefs of the southern Adriatic. (Coleoptera: Tenebrionidae). (In Italian.) Soc. Ent. Ital. B. 80:12-13. Mar.30,1950. 420 It1

5777 MÜLLER, G. Observations on some Coleoptera Malacodermata. (In Italian.) Soc. Ent. Ital. B. 80:13-14. Mar.30,1950. 420 It1

*Malachius graecus*; *Hypodasytes gelineki*; *Henicopus* spp.

5778 NAKANE, T. New or little known Coleoptera from Japan and its adjacent regions. IV. Drilidae. Mushi 21:29-31. May 20,1950. 421 M97

Includes new species in Drilonotus.

5779 NEW SOUTH WALES DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. The vegetable weevil (*Listroderes obliquus*). Agr. Gaz. N. S. Wales 61:371-372. July 1,1950. 23 N472

5780 NICKELS, C. B. Experiments in control of the pecan weevil [*Curculio caryae*]. J. Econ. Ent. 43:552-554. Aug.1950. 421 J822

5781 NUNBERG, M. The stridulating organ of *Ips sexdentatus* Boern. (Col. Scolytidae). Mus. Zool. Polon. Ann. 14:135-140. Ref. Feb.15,1950. 410.9 W26

5782 PANT, N. C., and FRAENKEL, G. The function of the symbiotic yeasts of two insect species, *Lasioderma serricorne* F. and *Stegobium (Sitodrepa) paniceum* L. Science 112:498-500. Oct.27,1950. 470 Sci2

5783 PASQUIER, R., LUCA, Y. DE, and MAUREL, H. Essai de traitements au champ contre la bruche des lentilles [*Bruchus lentis*]. Algeria. Inst. Agr. Ann. 4(10), 11 p. Dec.1949. 108 AL35

5784 PATRIZI, S. Contributions to the knowledge of the ants and myrmecophiles of East Africa. IV-VI. (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49):175-176. 1950. 420 B63

IV, Description of a new genus [*Smectonia*] and species of doryophilic staphylinid from Shoa and relative ethological notes; V, Ethological notes on *Myrmecusa* Wasmann; VI, *Crateropsis elementitae*, new aberrant subgenus of *Solenopsis* Westw.

5785 PLANK, H. K. Studies of factors influencing attack and control of the bamboo powder-post beetle [*Dinoderus minutus*]. P. R. Fed. Expt. Sta. (Mayaguez) B. 48,39 p. Ref. Aug.1950. 1 Ex65

5786 POLIVKA, J. B. Distribution and control of the Japanese beetle [*Popillia japonica*] in Ohio. Ohio. Agr. Expt. Sta. Res. C. 4,15 p. July 1950. 100 Oh3R

5787 QURAISHI, B. B. Biological studies of *Laemophloeus minutus* [i.e. *pusillus*] (flat grain beetle). (Abs.) Co-op. & Mktg. Rev. 4:248. July 1950. 280.28 C7823

5788 RINGS, R. W. Will parathion solve the curculio [*Conotrachelus nenuphar*] problem? (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:58. 1950. 422.12 N81

5789 RISBEC, J. Les Hispidae des plantes cultivées. Rev. Internatl. de Bot. Appl. d'Agr. Trop. 30:378-396. Ref. July/Aug.1950. 26 R323

5790 ROBERT, A., and CARON, A. Notes sur quelques Phyllophaga rares ou nouveaux pour la Province de Québec: *P. nitida* Lec., *P. longispina* Sm. et *P. marginalis* Lec. (Coleoptères, Scarabacidae). Assoc. Canad.-Franç. pour l'Avanc. des Sci. 16:151-153. 1950. 517 M76

5791 RONCERAY, F. Pour lutter contre les vers du colza (altises) il faut d'abord savoir les distinguer; les dégâts des "Phyllotreta et des Psyllodes" sont essentiellement différents. Nord Agr. 6(40):8. Aug.11, 1950. 14 N75

5792 ROSELLA, E. Les possibilités actuelles de lutte contre le capnoda. Prog. Agr. et Vitic. 1950:214-217. Oct.1/8,1950. 14 P94

5793 ROSILLO, M. A. Experiencias contra *Faustinus cubae* (Boh.). IDIA; Inform. de Invest. Agr. 3(32):13-14. Aug.1950. 9 Id3

Pest of tobacco.

5794 ROTH, L. M., and WILLIS, E. R. The oviposition of *Dermestes ater* Degeer, with notes on bionomics under laboratory conditions. Amer. Midland Nat. 44:426-447. Ref. Sept.1950. 410 M58

5795 RUSIAHVILI, I. L. Use of benzene hexachloride against wireworms and cutworms. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):26. July 1950. 95.8 V77

Grape pest control.

5796 SCHEDL, K. E. Fauna indo-malayensis. II. 104. Contribution to the morphology and taxonomy of the Scolytoidea. Ann. & Mag. Nat. Hist. (ser.12)3:892-900. Oct.1950. 410 An77

New species in *Pecilius* and *Xyleborus*.

5797 SCHWERTFEGER, F. Die anwendung von hexamitteln zur engertlingsbekämpfung. Forstarchiv 21:56-61. June 30,1950. 99.8 F7723

Melolontha.

5798 SCOTT, H. *Paederus fuscipes* Curtis (Col., Staphylinidae) and other migrant insects attracted to a ship's lights in the Red Sea. Ent. Mon. Mag. 86:217-218. July 1950. 421 En86

5799 SCOTT, L. B. Green June beetle [*Cotinis nitida*] larva control. (Abs.) Tobacco Insect Conf. Proc. 10:7. June 27,1950. 423.9 T55

5800 SHAPIRO, I. Control of pea leaf weevils [*Sitona lineata*] on the pea plantings. (In Russian.) Kolkhoz. Proizvodstvo 10(6):43. June 1950. 281.8 K83

5801 SHENEFELT, R. D., and SIMKOVER, H. G. White grubs in Wisconsin forest tree nurseries. J. Forestry 48:429-434. Sept.1950. 99.8 F768

Phyllophaga and other genera of Scarabaeidae.

5802 SOLARI, F. *Brachycerus zaninii* n. sp. Coleoptera: Curculionidae. (In Italian.) Soc. Ent. Ital. B. 79:94. Dec.30,1949. 420 It1

Description in Latin.

5803 SOLARI, F. On *Ceutorhynchus assimilis* Payk. and its relatives. (Coleoptera: Curculionidae). (In Italian.) Soc. Ent. Ital. B. 79:65-71. Dec.30,1949. 420 It1

5804 STAHL, C. F. Wireworm control at Oxford, North Carolina. (Abs.) Tobacco Insect Conf. Proc. 10:9. July 27,1950. 423.9 T55

5805 STEEL, W. O. Notes on the rearing of *Gnathocerus cornutus* (F.) (Col., Tenebrionidae). Ent. Mon. Mag. 86:273. Sept.1950. 421 En86

5806 STONE, M. W. An unusual record of longevity for an elaterid larva [*Melanactes densus*]. Kans. Ent. Soc. J. 23:126-128. Oct.1950. 420 K13

5807 STRANEO, S. L. Two new blind Pterostichini from East Africa (Coleoptera: Carabidae). (In Italian.) Soc. Ent. Ital. B. 79:23-26. Sept.5,1949. 420 It1

New species in *Caecocaelus* n.g. and *Pterostillichus* n.g.

5808 STRAUSS, A. R. "El juliao" (*Euethela bidentatus* Burm.) plaga del arroz y del maíz. Agr. Venezol. 15(143):6. June 1950. 9.95 Ag8

5809 SUMITOMO, S. On the oecological investigation of pine beetle at Ushiroyachi National Forest in the jurisdiction of Noshiro District Forestry Office. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:110-111. Apr.25, 1950. 99.8 N62

5810 TCHOUVAKHINE, P. V. *Pentodon idiota* Herbst nuisible à la canne à sucre. (Sum.) Iran. Dépt. Gén. de la Protect. des Plantes. Lab. Ent. et Phytopath. Appl. 9:11-12. Dec.1949. 464.9 P432

Persian text p. 48-52.



- 5911 TEISSIER, G. Étude biométrique d'un variant sexuel du lucane [*Lucanus cervus*]. Cong. Internat. de Zool. Compt. Rend. (1948)13:182-184. 1949. 410.9 In8 Includes discussion.
- 5912 THOMSEN, M., and KROG, H. *Cerambyx cerdo* L. (= *heros* Scop.) from the subboreal period in Denmark. (In Danish.) Dansk Naturhist. För. Københav. Vidensk. Meddel. 111:131-148. Ref. 1949. 502 D232  
English summary.
- 5913 TOTTENHAM, C. E. Notes on the nomenclature of the Staphylinidae. 4. Entomologist 82:41-42. Feb. 1949. 421 En8  
Includes new variety in *Philonthus*.
- 5914 TURNER, J. N. Simple tests on the effectiveness of some chlorinated hydrocarbon insecticides against the leather beetle (*Dermestes maculatus* Deg.). B. Ent. Res. 41:289-299. Ref. Sept. 1950. 421 B87  
DDT, benzene hexachloride, and chlordane.
- 5915 VAURIE, P. Notes on the habitats of some North American tiger beetles [Cicindelidae]. N. Y. Ent. Soc. J. 58:143-153. Sept. 1950. 420 N48J  
*Cicindela* spp.
- 5916 VIANA, M. J. Nuevas especies argentinas de Tachygonus y catalogo de la subfamilia Tachygoninae (Coleop., Curculionidae). Mus. Argentino de Cien. Nat. "Bernardino Rivadavia." Rev. Cien. Zool. 1:67-93. Ref. 1949. 410.9 B862
- 5917 VINSON, J. New species of Coleoptera from the Mascarene Islands. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:142-147. Oct. 16, 1950. 420 L84Pb  
New species in *Anagricophilus*, *Megapenthes*, *Cherostus*, *Corticeus*, and *Hypocalis* from Mauritius and Réunion.
- 5918 WARNER, R. M. Orchard experiments against the dried fruit beetle [*Carpophilus hemipterus*]. Calif. Fig Inst. Proc. Annu. Res. Conf. 3:24-26. 1949. 93.44 C122P
- 5919 WATZL, O. Die bekämpfung des kornkäfers auf grund seiner lebensweise. Pflanzenarzt 3(3):2-3. Sept. 1950. 464.9 P492  
*Sitophilus granarius*.
- 5920 WEYER, F. Die entwicklung von rickettsien in den larven vom mehlkäfer (*Tenebrio molitor* L.). Schweiz. Z. f. Allg. Path. u. Bakt. 13:478-486. 1950. 448.8 Sch9  
English summary.
- 5921 WRAY, D. L. *Hippodamia convergens* Guer. Brooklyn Ent. Soc. B. 45:116. Oct. 1950. 420 B79
- 5922 YOUNG, H. C., and others. White-fringed beetles [*Graphognathus leucoloma*] and how to combat them. U. S. D. A. C. 850, 15 p. Aug. 1950. 1 Ag84C  
B. A. App, J. B. Gill, and H. S. Hollingsworth, joint authors.

## DIPTERA

- 5923 ANDERSEN, F. S. On the subgenus *Chironomus* [i.e. *Tendipes*] (Studies on the systematics and biology of Chironomidae III.). Dansk Naturhist. For. København, Vidensk. Meddel. 111:1-66. Ref. 1949. 502 D232
- 5924 ALEXANDER, C. P. New or little-known species of exotic Tipulidae (Diptera). VII. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:85-89. June 15, 1950. 420 L84Pb  
New species in *Tipula*, *Pseudolimnophila*, *Trentepohlia*, *Erioptera*, *Toxorhina*, and *Styringomyia*.
- 5925 ALEXANDER, C. P. Undescribed species of crane-flies from the eastern United States and Canada (Dipt.: Tipulidae). XI. Ent. News [Philadelphia] 61:163-171. Nov. 1950. 421 En88  
New species in *Tipula*, *Limonia*, *Atarba*, and *Erioptera*.
- 5926 BACHMANN, F. Untersuchungen über die gallmücke *Thomasiniana theobaldi* Barnes an himbeerruten. Schweiz. Z. f. Obst- u. Weinbau 59:386-392. Oct. 10, 1950. 80 Sch9
- 5927 BAKKER, H. A. Remarks on the genus *Musca* L. (s.l.) and its medical importance in Indonesia. Organ. Sci. Res. Indonesia. O. S. R. P. 16:47-51. Ref. 1950. 330.9 Or3P
- 5928 BEQUAERT, J. A nemestrinid [*Trichopsidea clausa*] bred from a grasshopper [*Metator pardalinus*] in the United States. Brooklyn Ent. Soc. B. 45:104. Oct. 1950. 420 B79
- 5929 BIZZOZERO, F. A. Gastrofilosis de los equinos (gusano del cuajo). Argentina. Min. de Agr. Almanaque 25:437-439. 1950. 9 Ag874
- 5930 BOHART, R. M. Observations on snow mosquitoes in California (Diptera: Culicidae). Pan-Pacific Ent. 26:111-118. July 1950. 421 P193  
*Aedes* spp.
- 5931 BRACEY, P. The persistence of DDT crystals in the coats of sprayed cattle, with special relation to tsetse [*Glossina*] control. Brit. Vet. J. 106:358-360. Sept. 1950. 41.8 V643
- 5932 BROMLEY, S. W. Ohio robber flies. V. (Diptera: Asilidae). Ohio J. Sci. 50:229-234. Ref. Sept. 1950. 410 Oh3
- 5933 BRUCE, W. N. "Resistant" flies [*Musca domestica*]. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:13. 1950. 422.12 N81
- 5934 BURLA, H. Inversionen in wildpopulationen von arten der annulimana-gruppe der gattung *Drosophila*. Rev. Suisse de Zool. 57:488-495. July 1950. 410 R324  
English summary.
- 5935 CARRERA, M. Synoptical keys for the genera of Brazilian "Asilidae" (Diptera). Rev. Bras. de Biol. 10:99-111. May 1950. 442.8 R326
- 5936 CHAMBERLAIN, R. W. An investigation on the action of piperonyl butoxide with pyrethrum. Amer. J. Hyg. 52:153-183. Ref. Sept. 1950. 449.8 Am3  
Tests made with houseflies.
- 5937 CLASTRIER, J. Phlébotomes de l'île de Zembra. Inst. Pasteur d'Algérie. Arch. 28:148-151. June 1950. 448.3 In7A
- 5938 COLLART, A. Un Thaumaleidae (Diptera) nouveau pour la faune française. Soc. Ent. de Belg. B. & Ann. 86:63-64. May 6, 1950. 420 B41  
*Androposopa larvata*.
- 5939 COLLIN, J. E. *Litophasia hyalipennis* Fallén (Diptera), a tachinid new to Britain. Soc. Brit. Ent. J. 3: 201-203. Aug. 21, 1950. 420 En85J
- 5940 COLLIN, J. E. A new palaearctic species of *Chersodromia* with very short wings (Diptera: Empididae). Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19: 78-79. June 15, 1950. 420 L84Pb
- 5941 COLLIN, J. E. Notes on Trypetidae [i.e. Tephritidae] (Diptera). Ent. Rec. & J. Variation 62:69-71. July/Aug. 1950. 421 En89  
On *Spilographa*, *Paroxyna*, and *Trypeta*.
- 5942 COLONIAL INSECTICIDE RESEARCH UNIT, ENTEBBE. Aerial spraying against tsetse flies in East Africa. I. Preliminary experiments with emulsions and aerosols against *Glossina* palpalis. Entebbe, 1949. 25 p. 428 En82
- 5943 CONNECTICUT. STATE GEOLOGICAL AND NATURAL HISTORY SURVEY. Guide to the insects of Connecticut. VI. The Diptera or true flies of Connecticut. 4. Conn. State Geol. & Nat. Hist. Survey B. 75, 92 p. Ref. 1950. 406 C76  
Contents: Family Tabanidae, by G. B. Fairchild, p.3-31; Family Phoridae, by C. T. Brues, p.33-81.
- 5944 COOK, S. F. The effect of helium and argon on metabolism and metamorphosis. J. Cell. & Compar. Physiol. 36:115-127. Aug. 1950. 444.8 J822  
Includes experiments with *Drosophila melanogaster* and *Tenebrio molitor*.
- 5945 CUNHA, A. B. DA, BURLA, H., and DOBZHANSKY, T. Adaptive chromosomal polymorphism in *Drosophila willistoni*. Evolution 4:212-235. Ref. Sept. 1950. 443.8 Ev62
- 5946 DENNING, D. G., and PFADT, R. E. Evaluation of certain insecticides in horn fly [*Siphona irritans*] control. J. Econ. Ent. 43:557-558. Aug. 1950. 421 J822
- 5947 DICKE, R. J. Chemical control of house and stable flies. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:12. 1950. 422.12 N81  
*Musca domestica*; *Stomoxys calcitrans*.
- 5948 DOBZHANSKY, T. The chromosomes of *Drosophila willistoni*. J. Hered. 41:156-158. Ref. June 1950. 442.8 Am3
- 5949 DOWNES, J. A. Habits and life-cycle of *Culicoides nubeculosus* Mg. Nature [London] 166:510-511. Sept. 23, 1950. 472 N21
- 5950 DUPUIS, C. Contributions à l'étude des Phasiinae cimicophages (Diptères Larvaevoridae) X. Le "mimétisme offensif" des *Allophora* [i.e. *Allophora*] et *Gymnosoma*. B. Biol. de la France et de la Belg. 84:194-206. Ref. Second Q. 1950. 473 B87  
English summary.



- 5951 DUPUIS, C. Types morphologiques des larves de Phasiinae cimicophages (Diptères Larvaevoridae). Cong. Internatl. de Zool. Compt. Rend. (1948)13:472-473. 1949. 410.9 In8
- 5952 EDDY, G. W., and GRAHAM, O. H. An improved laboratory method for testing materials as screw-worm [*Callitroga americana*] larvicides. J. Econ. Ent. 43:558-559. Aug.1950. 421 J822
- 5953 EMDEN, F. I. VAN. Dipterous parasites of Coleoptera. Ent. Mon. Mag. 86:193-206. (Concl.) July 1950. 421 En86
- 5954 EMDEN, F. I. VAN. Mormotomyia hirsuta (Austen) (Diptera) and its systematic position. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:121-128. Aug.15, 1950. 420 L84Pb
- 5955 EREMIN, V. M. Localization of gadfly [*Gasterophilus* (?) sp.] larvae in the pharynx region [of horses]. (In Russian.) Veterinariia 27(7):54-55. July 1950. 41.8 V6426
- 5956 FAUCHARD, D. La désinsectisation des étables. Agr. Prat. 114:398-400. Sept.1950. 14 J82
- Fly control.
- 5957 FLUCTUATIONS in the incidence of warbles in hides in England and Wales. Leather World 42:710,714, 716. Sept.14,1950. 303.8 L482
- Damage by Hypoderma.
- 5958 FRITZ, R. F. Domestic flies—public health significance and biology. Calif. Health 7:153-155. Apr. 30,1950. 449.8 C12
- 5959 FRITZ, R. F. Evaluation and control of community fly problems. Calif. Health 7:169-170. May 31, 1950. 449.8 C12
- 5960 FRIZZI, G. The chromosomes of the salivary glands of *Drosophila subobscura* Collin. (In Italian.) Sci. Genet. 3:205-214. May 1950. 442.8 Sci2
- English summary.
- 5961 GARRETT-JONES, C. The genus *Hilara* (Dipt., Empididae) at Flatford, East Suffolk. Ent. Mon. Mag. 86:260-264. Sept.1950. 421 En86
- 5962 GERSDORFF, W. A., and MITLIN, N. Insecticidal action of American species of *Heliothis*. J. Econ. Ent. 43:554-555. Aug.1950. 421 J822
- Tests with *Musca domestica*.
- 5963 GERSDORFF, W. A., and MITLIN, N. Relative toxicity to house flies of tetra-n-propyl dithionopyrophosphate. J. Econ. Ent. 43:562. Aug.1950. 421 J822
- 5964 GHESQUIÈRE, J. Parasites de la Cécidomyie des violettes [*Dasyneura affinis*] en Belgique. Soc. Ent. de Belg. B. & Ann. 86:64-65. May 6,1950. 420 B41
- 5965 GLOOR, H., and CHEN, P. S. Über ein Analorgan bei *Drosophila*-larven. Rev. Suisse de Zool. 57:570-576. July 1950. 410 R324
- 5966 GOOSSEN. Fliegenbekämpfung kein problem mehr! Landwirt. Wehnl. f. Westfalen u. Lippe 107 A: 1211. Aug.31,1950. 18 L2346
- 5967 GUNSTON, D. Combating the fly menace. Caterers' Assoc. B. 382:27-28. Aug.12,1950. 389.8 P11
- 5968 HADORN, E. Entwicklungsphysiologische untersuchungen an der genitalimaginalscheibe von *Drosophila*. Cong. Internatl. de Zool. Compt. Rend. (1948)13: 273-275. 1949. 410.9 In8
- 5969 HADORN, E., and FRITZ, W. Veränderungen am transplantierten weiblichen geschlechtsapparat von *Drosophila melanogaster* nach behandlung der imaginalscheibe in salzlösungen. Rev. Suisse de Zool. 57:477-488. July 1950. 410 R324
- English summary.
- 5970 HAFEZ, M. On the behaviour and sensory physiology of the house-fly larva, *Musca domestica* L. I. Feeding stage. Parasitology 40:215-236. Ref. Oct. 1950. 448.8 P21
- 5971 HARDY, D. E. A monographic study of the African Bibionidae (Diptera). I. Introduction and genus *Biblio* Geoffroy. Kans. Ent. Soc. J. 23:137-153. Oct.1950. 420 K13
- 5972 HARDY, G. H. On the articulating scutellum in Diptera. Ent. Mon. Mag. 86:230. Aug.1950. 421 En86
- 5973 HARDY, G. H. On the shortening of the radial vein in Diptera. Ent. Mon. Mag. 86:231. Aug.1950. 421 En86
- 5974 HENNIG, W. Die larvenformen der Dipteren; eine übersicht über die bisher bekannten jugendstadien der zweiflügeligen insekten. 2. Berlin, Akademie-Verlag, 1950. 458 p. 428 H39
- Contents: Sektion Culicomorph:
- 5975 HERTIG, M. Observations on the density of *Phlebotomus* populations following DDT campaigns. World Health Organ. B. 2:621-628. Ref. 1950. 449.9 W892B
- 5976 HINTON, C. W., and WHITTINGHILL, M. The distribution of X-ray induced crossovers from curly inversion heterozygotes of *Drosophila melanogaster* females. Natl. Acad. Sci. Proc. 36:552-558. Ref. Oct. 1950. 500 N21P
- 5977 HINTON, H. E. Aquatic Diptera collected in the River Dove near Dovedale, Derbyshire. Soc. Brit. Ent. J. 3:203-206. Aug.21,1950. 420 En85J
- 5978 HIXSON, E., and MUMA, M. H. Factors, other than chemicals, affecting fly control. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:12-13. 1950. 422.12 N81
- 5979 HUCKETT, H. C. The genus *Paraprosalpia* (Villeneuve) in North America, (= *Prosalia* Pokorny preoc.) Muscidae. Brooklyn Ent. Soc. B. 45:121-132. (To be cont.) Oct.1950. 420 B79
- 5980 HURST, H. An electron diffraction study of the crystalline structure of the lipids in the pupal exuviae of *Calliphora erythrocephala*. J. Expt. Biol. 27:238-252. Ref. Sept.1950. 442.8 B77
- 5991 IVES, P. T. The importance of mutation rate genes in evolution. Evolution 4:236-252. Ref. Sept.1950. 443.8 Ev62
- Studies on *Drosophila melanogaster*.
- 5982 JACKSON, C. H. N. On two advances of tsetse-fly [*Glossina morsitans*] in central Tanganyika. Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent. 25:29-32. June 15, 1950. 420 L84Pa
- 5983 JAMES, R. L., BISHOPP, F. C., and KNIPLING, E. F. Fly control on the dairy farm. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:26-27. 1950. 422.12 N81
- 5994 JANJUA, N. A. The biology of *Dacus* (*Strumeta*) *ferrugineus* (Fab.) (Trypetidae: Diptera) in Baluchistan. Indian J. Ent. 10:55-61. Ref. June 1948, pub. June 1950. 420 In23
- 5985 KETTLE, D. S. The seasonal distribution of *Culicoides impunctatus* Goetghebuer (Diptera: Heleidae (Ceratopogonidae)) with a discussion on the possibility that it may be composed of two or more biological races. Roy. Ent. Soc. London, Trans. 101:125-145. Sept.30, 1950. 420 L84
- 5986 KING, W. V. DDT-resistant house flies and mosquitoes. J. Econ. Ent. 43:527-532. Aug.1950. 421 J822
- Aedes taeniorhynchus* and *A. sollicitans* becoming resistant.
- 5987 KNIPLING, E. F. Fly [*Musca domestica*] resistance to DDT. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:13. 1950. 422.12 N81
- 5988 KNIPLING, E. F. Preliminary data on use of pyrethrum plus antioxidants for fly control on animals. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:14. 1950. 422.12 N81
- 5989 KNIPLING, E. F. Status of screw-worm [*Callitroga americana*] infestation in the Southeast. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:14. 1950. 422.12 N81
- 5990 KOSSWIG, C. Structure et formation des chromosomes géants chez la larve de *Chironomus* [i.e. *Tendipes*]. Cong. Internatl. de Zool. Compt. Rend. (1948) 13:178. 1949. 410.9 In8
- 5991 KÜHL, R., and SELTMANN, A. Gesundheitliche und wirtschaftliche bedeutung der fliegenplage. Allgäuer Bauernbl. 18:520-521. Aug.31,1950. 18 AL53
- 5992 LAAKE, E. W. Control of horn flies [*Siphona irritans*] on cattle. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:15. 1950. 422.12 N81
- 5993 LAAKE, E. W. Recent outbreaks of screw-worms [*Callitroga americana*]. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:14-15. 1950. 422.12 N81
- 5994 LANE, J. New Brazilian "*Leia*" Meigen, 1818 (Diptera, Mycetophilidae). Rev. Bras. de Biol. 10:121-131. May 1950. 442.8 R326
- 5995 LECLERCQ, M. Les "*Oestridentes*" du Musée Zoologique de Strasbourg (Diptera). Soc. Ent. de Belg. B. & Ann. 86:55-56. Mar.5,1950. 420 B41
- 5996 LEVENBOOK, L. The composition of horse bot fly (*Gastrophilus intestinalis*) larva blood. Biochem. J. 47:336-346. Ref. Sept.1950. 382 B52



- 5997 LEVENBOOK, L. The physiology of carbon dioxide transport in insect blood. I-III. J. Expt. Biol. 27: 158-191. Ref. Sept. 1950. 442.8 B77
- I, The form of carbon dioxide present in *Gastrophilus* [intestinalis] larva blood, p. 158-174; II, The effect of insect blood on the rate of hydration of CO<sub>2</sub>, by L. Levenbook and A. M. Clark, p. 175-183; III, The buffer capacity of *Gastrophilus* blood, p. 184-191.
- 5998 LEWALLEN, L. L. Bristle density of the fifth abdominal sternite of two house fly strains (Diptera: Muscidae). Pan-Pacific Ent. 26:138. July 1950. 421 P193
- 5999 LOMAX, J. W. How should we assist towns and cities requiring aid on fly and mosquito control campaigns? (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:26. 1950. 422.12 N81
- Extension work.
- 5900 MACKERRAS, I. M. The zoogeography of the Diptera. Austral. J. Sci. 12:157-161. Ref. Apr. 21, 1950. 475 Au72
- 5901 MARCH, R. B., and METCALF, R. L. Investigations of insecticide-resistant house flies in southern California. Calif. Mosquito Control Assoc. Proc. & Papers 18:17-20. 1950. 428 C763
- 5902 MARNEF, L. Anomalie de la nervulation des ailes chez *Polistes lardia* [i.e. *Polistes lardaria*] F. (Dipt. Muscidae.). Soc. Ent. de Belg. B. & Ann. 86:59. May 6, 1950. 420 B41
- 5903 MELANDER, A. L. Taxonomic notes on some smaller Bombyliidae (Diptera). Pan-Pacific Ent. 26:139-144. (To be cont.) July 1950. 421 P193
- New species in *Platypygus*, *Empidideicus*, and *Glabellula*.
- 5904 MESA CARRION, F. La mosca de la fruta [*Ceratitidis capitata*]. Uruguay. Min. de Ganad. y Agr. B. Inform. 330:13. July 20, 1950. 9.9 G15B
- 5905 MESNIL, L. P. Critiques et suggestions à propos de récents travaux concernant les Protachinides [Phasiidae; Dextidae] d'Afrique. Soc. Ent. de Belg. B. & Ann. 86:104-117. May 6, 1950. 420 B41
- Includes new species in *Rhodogyne*, *Dinera*, and *Billaea*.
- 5906 MILANI, R. Further observations on the so strains of *Drosophila melanogaster*. (In Italian.) Sci. Genet. 3:247-259. May 1950. 442.8 Sc12
- English summary.
- 5907 MILES, M. Studies of British anthomyiid flies. I-II. B. Ent. Res. 41:343-354. Ref. Sept. 1950. 421 B87
- I, Biology and habits of the been seed flies, *Chortophila* [i.e. *Hylemya*] *cilicrura* (Rond.) and C. [i.e. H.] *trichodactyla* (Rond.); II, The biology and economic status of *Pegohylemyia fugax* (Mg.).
- 5908 MILES, P. M. Some records of Tipulidae (Dipt.) in Wales, 1947-48. Ent. Mon. Mag. 86:267. Sept. 1950. 421 En86
- 5909 MILLER, N. C. E. New Reduviidae in the collection of the British Museum (Natural History). IV. Ann. & Mag. Nat. Hist. (ser.12)3:786-804. Sept. 1950. 410 An77
- New species in: *Platycnemocris* n.g., *Ptilocnemus*, *Holoptilus*, and *Ptilocerus*.
- 5910 MOGGIDGE, J. Y. The relations of the coastal tsetse of Kenya to the plant communities. B. Ent. Res. 41:301-315. Sept. 1950. 421 B87
- 5911 MORALES M., E. A most remarkable fly [*Dermatobia hominis*]. Discovery 11:300. Sept. 1950. 472 D63
- 5912 MORRIS, M. G. The persistence of toxicity in DDT-impregnated hessian and its use on tsetse traps. B. Ent. Res. 41:259-288. Sept. 1950. 421 B87
- 5913 MÜLLER-UFING, . Die hirschaus [*Lipoptena cirvi* L.]. Pirsch 2:532. July 15, 1950. 410 P66
- 5914 NIBLETT, M. Notes on some gall-causing Cecidomyiidae. VI. Entomologist 82:159-162. July 1949. 421 En8
- 5915 NIELSEN, E. T., and GREVE, H. Studies on the swarming habits of mosquitos and other Nematocera [Tendipes plumosus; Tipulidae]. B. Ent. Res. 41:227-258. Sept. 1950. 421 B87
- 5916 OLIVEIRA, J. V. DE. Take care, Messrs. Plant Sanitarians and Fruit Cultivators! (In Portuguese.) Seleç. Agr. 5(52):21-22. Aug. 1950. 9.2 Se4
- Control of *Dacus dorsalis*.
- 5917 O'MAHONY, E. The Hippoboscidae (Diptera) of Ireland. Soc. Brit. Ent. J. 3:207-210. Aug. 21, 1950. 420 En85J
- 5918 PACAUD, A. Fonction glycogénique et différenciation morphologique du mesentéron chez la larve de *Simulium costatum* Fried. (Diptère). Ann. des Sci. Nat. Zool. et Biol. Anim. (ser.11)12:1-14. Ref. 1950. 410 An7
- 5919 PARKER, A. H. Studies on the eggs of certain biting midges (*Culicoides* Latreille) occurring in Scotland. Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent. 25:43-52. Ref. June 15, 1950. 420 L84Pa
- 5920 PARMENTER, L. Observations on *Rhamphomyia sulcata* Flin. (Dipt., Empididae). Ent. Mon. Mag. 86:255-256. Aug. 1950. 421 En86
- 5921 PAVLOV, I. F. Control of frit fly [*Oscinella* frit] in places where they concentrate. (In Russian.) Seleç. i Semen. 17(5):54-57. May 1950. 61.9 Se5
- Experiments with DDT and benzene hexachloride.
- 5922 PENNYPACKER, M. Large "anal gill" chromosomes of a chironomid [*Tendipes riparius*] larva. J. Hered. 41:155,164. June 1950. 442.8 Am3
- 5923 PERKINS, F. A., and MAY, A. W. S. Studies in Australian and Oriental Trypetidae. IV. New species of Dacinae from Queensland. Queensland. U. Dept. Biol. Papers 2(14), 21 p. Nov. 28, 1949. 442.9 Q33
- New species in *Strumeta*, *Asiadacus*, and *Afrodacus*.
- 5924 PETERS, H. Fliegen- und rattenbekämpfung in grossstädten. (Abs.) Zentbl. f. Bakt. Parasitenk. Infektkrank. u. Hyg. Abt. I. Orig. 154(Ber. über die 2 Tagung der Freien Ver. Deut. Hyg. u. Mikrobiol.):225-226. Sept. 23, 1950. 448.3 C33
- 5925 PHILIP, A. Description of one new species of *Strumeta* Walker (Trypetidae: Diptera) from Burma and a record of one far-eastern species of the genus from India. Indian J. Ent. 10:31-32. June 1948, pub. June 1950. 420 In23
- 5926 PIMENTEL, D., SCHWARDT, H. H., and NORTON, L. B. House fly control in dairy barns. J. Econ. Ent. 43:510-515. Ref. Aug. 1950. 421 J822
- Tests with various insecticides.
- 5927 POLIAKOVA, M. G. Control of the skin gadfly [*Hypoderma*?] in cattle. (In Russian.) Sotsialist. Zhivotn 12(4):78-80. Apr. 1950. 49 So71
- 5928 POSSOMPES, B. Expériences d'ablation et d'implantation du système nerveux et de l'anneau de Weissmann chez la larve de *Calliphora erythrocephala* Meig. Cong. Internatl. de Zool. Compt. Rend. (1948)13: 474-475. 1949. 410.9 In8
- 5929 POSSOMPES, B. Rôle du cerveau au cours de la métamorphose de *Calliphora erythrocephala* Meig. Paris. Acad. des Sci. Compt. Rend. 231:594-596. Sept. 18, 1950. 505 P21
- 5930 PRITCHARD, A. E. Seed-corn maggot [*Hylemya cilicrura*] on Gladioli; a newly recognized pest of glads may be controlled by application of chlordane to furrows at planting. Calif. Agr. [Calif. Sta.] 4(9):13. Sept. 1950. 100 C12Cag
- 5931 PUSSARD, M. R. La mouche noire des figues. *Lonchaea aristella* Beck. Rev. Agr. de l'Afrique du Nord 48:680-683. Sept. 15, 1950. 80 R326
- 5932 RAINEY, R. C. The embryonic respiration of the sheep blowfly, *Lucilia* [i.e. *Phaenicia*] *sericata* Mg. Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent. 25:87-92. Ref. Sept. 15, 1950. 420 L84Pa
- 5933 RAMAZANOV, D. F. Little-known pest of onion. (In Russian.) Sad i Ogorod 1950(7):88-89. July 1950. 87 Sa1
- Probably in *Agromyzidae*.
- 5934 RAO, S. N. Descriptions of one new genus [*Amraemyia*] and three new species of gall midges [Itonididae: Diptera], causing galls on mango in India. Indian J. Ent. 10:33-40. June 1948, pub. June 1950. 420 In23
- 5935 REHN, J. W. H. Aural myiasis by *Musca vicina* (Dipt.). Ent. News [Philadelphia] 61:139. Oct. 1950. 421 En88
- 5936 RIVNAY, E. The Mediterranean fruit fly [*Ceratitidis capitata*] in Israel. B. Ent. Res. 41:321-341. Sept. 1950. 421 B87
- 5937 ROBERTS, E. W. Artificial feeding of *Culicoides nubeculosus* in the laboratory. Nature [London] 166:700. Oct. 21, 1950. 472 N21
- 5938 ROGOFF, W. M. Cattle grubs [*Hypoderma*] (Abs.). Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:15. 1950. 422.12 N81



- 5939 SARA, M. On the spermatogenesis of Psychoda alternata Say and of Psychoda cinerea Banks. (Dipt. Psychodidae). (In Italian.) Sci. Genet. 3:236-246. May 1950. 442.8 Sci2  
English summary.
- 5940 SATCHELL, G. H. The New Zealand Psychodidae: a study based upon the collection and manuscript notes of the late Dr. A. L. Tonnoir. Roy. Ent. Soc. London, Trans. 101:147-178. Ref. Sept.30, 1950. 420 L84  
New species in Trichomyia, Sycorax, Pericoma, Brunettia, and Psychoda.
- 5941 SCHMIDT, H. W. Keine fliegenplage mehr im kuhstall. Milcherzeuger 8:32. July 1950. 43.8 M592
- 5942 SCHMITZ, H. Neue Phoridae aus Europa und Afrika (Diptera, Phoridae). Brotéria 19:107-115. Aug. 1950. 410 B79C  
New species in Aenigmatias and Megaselia.
- 5943 SCHOOF, H. F. Community fly control. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:43-44. 1950. 422.12 N81
- 5944 SCHOOF, H. F. Insect and poliomyelitis. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:41-42. 1950. 422.12 N81  
Virus carried by flies.
- 5945 SHAW, F., and LANE, J. Key for Neotropical "Leia" Meigen, 1818 (Diptera, Mycetophilidae). Rev. Bras. de Biol. 10:253-256. July 1950. 442.8 R326
- 5946 SHAW, F. A new Brazilian "Leia" (Diptera, Mycetophilidae). Rev. Bras. de Biol. 10:113-114. May 1950. 442.8 R326
- 5947 SHILLITO, J. F. A note on Speiser's genus Centroncus and a revised definition of Diopsidae (Diptera: Acalypteræ). Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:109-113. Aug. 15, 1950. 420 L84Pb
- 5948 SIMINTZIS, G., and FIASSON, S. Senotainia tricuspid Meig., parasite larvaire de l'abeille adulte (Apis mellifica). Soc. de Biol. Compt. Rend. 144:863-865. June 1950. 442.9 P21  
Myapis angellozi is a synonym.
- 5949 SMIT, B. Fruit flies. (In Afrikaans.) Landbouweekblad 32(1628):53. Sept.27, 1950. 24 L232
- 5950 STONE, P. C. New biological observations. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:13-14. 1950. 422.12 N81  
Tabanus sulcifrons.
- 5951 TAYLOR, L. F. Experimental control of the seed-corn maggot [Hylemya cilicrura] on lima beans. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:23. 1950. 422.12 N81
- 5952 THOMAS, H. T. Abnormal material bearing on the development of the terminalia of male calypterate cyclorrhaphous Diptera. Parasitology 40:304-315. Oct. 1950. 448.8 P21  
Specimens of Sarcophaga similis and S. hirtipes orchidea.
- 5953 THOMAS, H. T. Field notes on the mating habits of Sarcophaga Meigen (Diptera). Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent. 25:93-98. Sept.15, 1950. 420 L84Pa
- 5954 TILDEN, J. W. Oviposition and behavior of Liriomyza pusilla (Meigen) (Diptera: Agromyzidae). Pan-Pacific Ent. 26:119-121. July 1950. 421 P193
- 5955 TIMON-DAVID, J. Observations sur le peuplement entomologique (Diptères) des Pyrénées arlégoises. Cong. Internat. de Zool. Compt. Rend. (1948)13:475-476. 1949. 410.9 In8
- 5956 TOLEDO, A. A. DE, and SAUER, H. F. G. Effect of some chlorinated insecticides on the bot fly, Dermatobia hominis. (In Portuguese.) Biológico 16:25-34. Feb. 1950. 442.8 B529
- 5957 TOLLET, R. Bolitophila (Diptera Mycetophilidae) nouveaux ou peu connus de la Belgique. Soc. Ent. de Belg. B. & Ann. 86:32-33. Mar.5, 1950. 420 B41
- 5958 TOLLET, R. Un Mycetophilidae (Ceroplatinae) nouveau du Congo Belge. Soc. Ent. de Belg. B. & Ann. 86:35. Mar.5, 1950. 420 B41  
In Heteropterna.
- 5959 TOLLET, R. Remarques sur deux Scatopidae (Diptera-Nematocera) intéressants. Soc. Ent. de Belg. B. & Ann. 86:66. May 6, 1950. 420 B41  
Aldrovandiella winthemi; Anapausis tenuicauda.
- 5960 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Horn fly [Siphona irritans] control on beef cattle. U. S. D. A. L. 291,6 p. Aug. 1950. 1 Ag84L
- 5961 VARGAS, L. Lista de los Culicoides del mundo (Diptera, Heleidae). Soc. Mex. de Hist. Nat. Rev. 10:191-218. Dec. 1949. 516 So15
- 5962 VIKHLIAEV, V. A. First results in the control of the skin gadfly [Hypoderma?]. (In Russian.) Sotsialist. Zhivotn. 12(4):81-82. Apr. 1950. 49 So71  
Treatment of cattle with DDT.
- 5963 VRYDAGH, J. M. Conséquences possibles pour les équilibres naturels de la généralisation de l'emploi de l'"antricyde." Internat. Tech. Conf. Protect. Nat. Proc. & Papers 1949:391-393. 1950. 279.9 In85P  
Treatment of cattle for trypanosomiasis may obviate large-scale insecticidal applications for Glossina control.
- 5964 WALKER, J. R. Control of the Clear Lake gnat [Chaoborus astictopus]. Calif. Health 8:33-34. Sept.15, 1950. 449.8 C12
- 5965 WARTERS, M., and GRIFFEN, A. B. The telomeres of Drosophila. J. Hered. 41:183-190. Ref. July 1950. 442.8 Am3
- 5966 WATERHOUSE, D. F. Studies of the physiology and toxicology of blowflies. XIV. The composition, formation, and fate of the granules in the Malpighian tubules of Lucilia cuprina larvae. Austral. J. Sci. Res. Ser. B: Biol. Sci. 3:76-112. Ref. Feb. 1950. 442.8 Au72
- 5967 WATZL, O. Was ist beim anbau von getreide in halmfliegengebielen [Chlorops pumilionis] zu beachten? Pflanzenerz 3(9):1-2. Sept.1, 1950. 464.9 P482
- 5968 WEIGEL, R., and DILKS, E. The ball gall of goldenrod as laboratory material. Turtox News 28:134-137. Aug. 1950. 442.8 T86  
Due to Eurosta solidaginis.
- 5969 WHEELER, B. M. Halogen metabolism of Drosophila gibberosa. I. Iodine metabolism studied by means of <sup>131</sup>I. J. Expt. Zool. 115:83-107. Ref. Oct. 1950. 410 J825
- 5970 WHITTINGHILL, M., and HINTON, C. W. The nature of linkage variation with age in inversion heterozygotes of Drosophila melanogaster. Natl. Acad. Sci. Proc. 36:546-551. Oct. 1950. 500 N21P
- 5971 WILSON, C. S. Recent observations on control of noxious insects in Alaska. Calif. Mosquito Control Assoc. Proc. & Papers 18:4-6. 1950. 428 C763  
Mosquitoes, black flies, and sand flies (Culicoides).
- 5972 WOLF, G. Dasselbekämpfung mit kontaktgiften. Deut. Tierärztl. Wchnsch. 57:261-263. Aug. 15, 1950. 41.8 D482
- 5973 ZHUKOVSKIĬ, A. V. On the diapause of hesian fly [Phytophaga destructor] larvae. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(6):26-29. Ref. 1950. 20 Ak1
- 5974 ZUMPT, F. Descriptions of three new Sarcophaga species from the Ethiopian Region (Diptera, Calliphoridae). Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:80-84. June 15, 1950. 420 L84Pb
- 5975 ZUMPT, F. Flugzeug gegen tsetse. Kosmos 46:370-373. Aug. 1950. 474 K842
- 5976 ZUMPT, F., and HEINZ, H. J. Studies in the sexual armature of Diptera. II. A contribution to the study of the morphology and homology of the male terminalia of Calliphora and Sarcophaga (Dipt., Calliphoridae). Ent. Mon. Mag. 86:207-216. July 1950. 421 En86

## Culicidae

- 5977 AKINS, H. A method of infecting Aedes aegypti with Plasmodium gallinaceum from chick embryos. Natl. Malaria Soc. J. 9:248. Sept. 1950. 448.9 N213
- 5978 ALVARADO, C. A., and PONTE, E. DEL. Investigaciones sobre la presunta existencia del Anopheles gambiae en el Paraguay. Argentina. Inst. Bact. Malbrán. Rev. (1945-48)13:259-266. 1950. 448.3 Ar3
- 5979 BATES, M. The lady lives on blood; little-known facts about a well-known creature—the mosquito. Nat. Hist. 59:374-381. Oct. 1950. 500 N483J
- 5980 BENARROCH, E. I. Paludismo en Venezuela. Introducción al estudio de Anopheles darlingi. Venezuela. Min. de Sanid. y Asistencia Social. Rev. de Sanid. y Asistencia Social 15:63-79. Ref. Jan./Apr. 1950. 449.9 V55
- 5981 BODMAN, M. T., and GANNON, N. Some habits of eggs of Aedes vexans. J. Econ. Ent. 43:547-548. Aug. 1950. 421 J822



- 5982 BOHART, R. M., and MURRAY, W. D. DDT resistance in *Aedes nigromaculis* larvae. Calif. Mosquito Control Assoc. Proc. & Papers 18:20-22. 1950. 428 C763
- 5983 BONNE-WEPSTER, J., and SWELLENGREBEL, N. H. *Anopheles sundiacus* and DDT-spraying. Doc. Neerland. et Indonesica de Morbis Trop. 2:154-160. June 1950. 448.8 D65
- 5984 BROOKMAN, B. The ecology of *Culex* mosquitoes. Calif. Mosquito Control Assoc. Proc. & Papers 18:74-76. 1950. 428 C763
- 5985 BUCHANAN, W. J. The Central Valley Project and its potential effect on mosquito control in California. Calif. Mosquito Control Assoc. Proc. & Papers 18:46-49. 1950. 428 C763  
Includes discussion.
- 5986 BURGESS, R. W., and YOUNG, M. D. The comparative susceptibility of *Anopheles quadrimaculatus* and *Anopheles freeborni* to infection by *Plasmodium vivax* (St. Elizabeth strain). Natl. Malaria Soc. J. 9:218-221. Sept. 1950. 448.9 N213
- 5987 CALIFORNIA. STATE DEPT. OF PUBLIC HEALTH. BUR. OF VECTOR CONTROL. Radiosotopes aid studies of mosquito ecology. Calif. Health 8:29-30. Aug. 31, 1950. 449.8 C12
- 5988 CARTER, H. F. Ceylon mosquitoes: lists of species and names of mosquitoes recorded from Ceylon. Ceylon J. Sci. Sect. B, Zool. 24:85-115. Ref. Sept. 15, 1950. 410 C33
- 5989 CARTER, H. F. The genus *Taeniorhynchus* Lynch Arribalzaga (Diptera, Culicidae) with special reference to the bionomics and relation to disease of the species occurring in Ceylon. Ceylon J. Sci. Sect. B: Zool. 24:1-26. Ref. May 12, 1950. 410 C33
- 5990 CHAMBERLAIN, R. W., and SIKES, R. K. A safe method of handling mosquitoes [*Culex quinquefasciatus*] for virus transmission experiments. J. Parasitol. 36:499-500. Oct. 1950. 448.8 J824
- 5991 CHOW, C. Y. Mosquito studies in China, past and present. Mosquito News 10:134-137. Ref. Sept. 1950. 421 M85
- 5992 COLLESS, D. H. An improved method for mounting mosquito larvae. Nature [London] 166:486-487. Sept. 16, 1950. 472 N21
- 5993 CORREA, R. R., LIMA, F. O., and CODA, D. Observations on the flight and longevity in nature of *Anopheles albitarsis domesticus*. Natl. Malaria Soc. J. 9:280-284. Sept. 1950. 448.9 N213  
Malaria vector in São Paulo.
- 5994 CUTKOMP, L. K., HESS, A. D., and KEENER, G. G. Factors influencing spray and thermal aerosol application by airplane. J. Econ. Ent. 43:456-462. Ref. Aug. 1950. 421 J822  
For control of *Anopheles quadrimaculatus*.
- 5995 DEONIER, C. C., CAIN, T. L., JR., and MCDUFFIE, W. C. Aerial spray tests on adult salt-marsh mosquitoes [*Aedes taeniorhynchus*; *A. sollicitans*] resistant to DDT. J. Econ. Ent. 43:506-510. Aug. 1950. 421 J822
- 5996 DEONIER, C. C., and GILBERT, I. H. Resistance of salt-marsh mosquitoes [*Aedes taeniorhynchus*; *A. sollicitans*] to DDT and other insecticides. Mosquito News 10:138-143. Sept. 1950. 421 M85
- 5997 DEWITT, R. Program of eliminative work on lands flooded intermittently during the summer months. Calif. Mosquito Control Assoc. Proc. & Papers 18:85-86. 1950. 428 C763  
Drainage.
- 5998 DOANE, O. W. Mosquito control in Massachusetts—best-known summer playground. Calif. Mosquito Control Assoc. Proc. & Papers 18:7-9. 1950. 428 C763
- 5999 EYLES, D. E., and YOUNG, M. D. The comparative susceptibility of *Anopheles albanus* and *Anopheles quadrimaculatus* to a South Carolina strain of *Plasmodium falciparum*. J. Infect. Dis. 87:189-193. Sept./Oct. 1950. 448.8 J821
- 6000 FRINGS, H., and HAMRUM, C. L. The contact chemoreceptors of adult yellow fever mosquitoes, *Aedes aegypti*. N. Y. Ent. Soc. J. 58:133-142. Sept. 1950. 420 N48J
- 6001 FRIZZI, G. Studies on the sterility of hybrids in the genus *Anopheles*. I. Sterility in the cross between *Anopheles maculipennis* [i.e. *labranchiae*] *atroparvus* and *Anopheles maculipennis typicus* and in the reciprocal cross of the salivary chromosomes. (In Italian.) Sci. Genet. 3:260-270. Ref. May 1950. 442.8 Sc12  
English summary.
- 6002 GRAY, H. F. A broad, objective view of mosquito control methods and processes. Calif. Mosquito Control Assoc. Proc. & Papers 18:77-78. 1950. 428 C763
- 6003 GRAY, H. F. Eliminative mosquito control measures in relation to industrial operations. Calif. Mosquito Control Assoc. Proc. & Papers 18:89-90. 1950. 428 C763
- 6004 GRAY, H. F. Which way now? Calif. Mosquito Control Assoc. Proc. & Papers 18:3-4. 1950. 428 C763
- 6005 HAYES, R. O. The effect of DDT upon the eggs of *Aedes dorsalis* (Meigen) and *Aedes nigromaculis* (Ludlow). Calif. Mosquito Control Assoc. Proc. & Papers 18:9. 1950. 428 C763
- 6006 HECHT, O. Epidemiología de la fiebre amarilla urbana y selvática, con anotaciones acerca de la biología de los mosquitos transmisores. Ciencia 10:129-138. Ref. (Concl.) Aug. 5, 1950. 475 C48  
Chiefly *Haemagogus*.
- 6007 HENDERSON, R. L. Benefits of small earth-moving equipment. Calif. Mosquito Control Assoc. Proc. & Papers 18:86-87. 1950. 428 C763  
Drainage for mosquito control.
- 6008 HU, S. M. K. Mosquito control in Hawaii. Calif. Mosquito Control Assoc. Proc. & Papers 18:12-13. 1950. 428 C763
- 6009 HURLBUT, H. S., and THOMAS, J. I. Observations on the experimental transmission of Japanese encephalitis by mosquitoes [*Culex quinquefasciatus*]. Amer. J. Trop. Med. 30:683-688. Sept. 1950. 448.8 Am33
- 6010 JASWANT SINGH, and DAVID, A. Staining and re-staining of [*Plasmodium*] oöcysts and sporozoites from infected mosquitoes. Indian J. Malariol. 3:349-352. Dec. 1949. 448.8 In24
- 6011 JAYEWICKREME, S. H. Resistance to the action of a mineral oil larvicide by larvae of *Anopheles subpictus* Grassi. Ceylon J. Sci. Sect. B, Zool. 24:117-121. Sept. 15, 1950. 410 C33
- 6012 JOHNSON, P. T., and THURMAN, E. B. The occurrence of *Aedes* (*Ochlerotatus*) *pullatus* (Coquillett), in California (Diptera: Culicidae). Pan-Pacific Ent. 26:107-110. Ref. July 1950. 421 P193
- 6013 JONES, G. P. Permanent control work of Marin County Mosquito Abatement District. Calif. Mosquito Control Assoc. Proc. & Papers 18:80-81. 1950. 428 C763
- 6014 KIMBALL, J. H. Progress of eliminative work in tidewater areas, Orange County, California. Calif. Mosquito Control Assoc. Proc. & Papers 18:78-79. 1950. 428 C763
- 6015 KITZMILLER, J. B. Fertility in species crosses in mosquitoes. Ent. News [Philadelphia] 61:130-131. Oct. 1950. 421 En88  
*Culex pipiens* and *C. quinquefasciatus*.
- 6016 KUMM, H. W., and LAEMMERT, H. W., JR. A study of the concentration of yellow fever virus which will infect certain species of *Aedes* mosquitoes. Amer. J. Trop. Med. 30:749-755. Sept. 1950. 448.8 Am33
- 6017 LAEMMERT, H. W., JR., and KUMM, H. W. The susceptibility of howler monkeys to yellow fever virus. Amer. J. Trop. Med. 30:723-731. Ref. Sept. 1950. 448.8 Am33  
Transmission experiments with *Aedes* spp. as vectors.
- 6018 LINDQUIST, A. W., and YATES, W. W. Some recent research on mosquito problems at the Corvallis, Oregon, laboratory. Calif. Mosquito Control Assoc. Proc. & Papers 18:10-12. 1950. 428 C763  
Insecticide tests and mosquito resistance.
- 6019 LUDVIK, G. F. Barrier strip and pre-flood treatments with DDT to control *Anopheles quadrimaculatus*. J. Econ. Ent. 43:516-519. Ref. Aug. 1950. 421 J822
- 6020 MACAN, T. T. Malaria survey of the Arakan region of Bengal and Burma. Parasitology 40:290-297. Oct. 1950. 448.8 P21  
Includes records of *Anopheles* spp.
- 6021 MANSO SOTO, A. E., and MARTÍNEZ, A. Estudios sobre mosquitos de la Ciudad de Buenos Aires. Buenos Aires. U. Misión de Estud. de Patol. Region. Argentina 20(75):53-61. 1949. 448.8 B862  
Breeding places, control.
- 6022 MARKOS, B. G. The ecology of California *Anopheles*. Calif. Mosquito Control Assoc. Proc. & Papers 18:69-73. Ref. 1950. 428 C763



- 6023 MARKS, E. N. Studies of Queensland mosquitoes. IV. Some species of *Aedes* (subgenus *Ochlerotatus*). Queensland. U. Dept. Biol. Papers 12(11), 41 p. Ref. Sept. 30, 1949. 442.9 Q33
- 6024 MARTÍNEZ, A. *Anopheles* (Kerteszia) *laneanus* Correa y Cerqueira, 1944, nueva especie para la entomofauna boliviana. Buenos Aires. U. Misión de Estud. de Patol. Region. Argentina 20(75):13-17. 1949. 448.8 B862
- 6025 MATTINGLY, P. F. *Aedes vexans* from Wimbledon. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:156. Oct. 16, 1950. 420 L84Pb
- 6026 MENON, M. A. U. The male of a new species of the subgenus *Aedes* Meigen, 1818 (Diptera: Culicidae). Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:139-141. Oct. 16, 1950. 420 L84Pb
- 6027 MICKS, D. W. The lethal effect of the ciliate, *Vorticella microstoma* Ehrenberg on *Anopheles quadrimaculatus* larvae. Natl. Malaria Soc. J. 9:256-258. Sept. 1950. 448.9 N213
- 6028 PERRY, W. J. Principal larval and adult habitats of *Anopheles farauti* Lav. in the British Solomon Islands. Mosquito News 10:117-126. Ref. Sept. 1950. 421 M85
- 6029 PETERS, R. H. River bottom mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 18: 88-89. 1950. 428 C763
- 6030 PONTE, E. DEL. Ensayos de la toxidad del D.D.T. para las larvas de *Anopheles pseudopunctipennis*. Argentina. Inst. Bact. Malbrán. Rev. (1945-48)13:95-121. 1950. 448.3 Ar3
- 6031 PONTE, E. DEL., and BLAKSLEY, J. C. Importancia sanitaria de los Culicidae de la ciudad de Buenos Aires. Argentina. Inst. Bact. Malbrán. Rev. (1945-48)13:253-258. 1950. 448.3 Ar3
- 6032 PORTMAN, R. Mosquito control by permanent means. Calif. Mosquito Control Assoc. Proc. & Papers 18:82-83. 1950. 428 C763
- In rice fields.
- 6033 PRUESS, A. F. A trustee's view of mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 18:52-54. 1950. 428 C763
- Includes discussion.
- 6034 RAJENDRAM, S., CADER, M. H. M. A., and VISVALINGAM, T. Malaria eradication in Ceylon. Nature [London] 166:486. Sept. 16, 1950. 472 N21
- Anopheles culicifacies*.
- 6035 RAMSAY, J. A. Osmotic regulation in mosquito larvae. J. Expt. Biol. 27:145-157. Ref. Sept. 1950. 442.8 B77
- Experiments with *Aedes aegypti* and *A. detritus*.
- 6036 REEVES, W. C. The present status of knowledge of mosquito ecology in California. Calif. Mosquito Control Assoc. Proc. & Papers 18:59-61. 1950. 428 C763
- 6037 REEVES, W. C. Yakima, Washington, controls mosquitoes and flies at no cost—why can't we? Calif. Mosquito Control Assoc. Proc. & Papers 18:13-15. 1950. 428 C763
- 6038 REHN, J. W. H., CAPRILES, J. M., and HENDERSON, J. M. Field studies on the bionomics of *Anopheles albimanus*. II-III. Natl. Malaria Soc. J. 9:268-279. Sept. 1950. 448.9 N213
- 6039 ROBINSON, E. C. Cooperative drainage between property owners, irrigation districts, and mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 18:87-88. 1950. 428 C763
- 6040 ROCH, E. Estudio sobre el paludismo en el Valle de Morelia, entre los años de 1938 a 1949, en relación con obras de saneamiento. Soc. Mex. de Hist. Nat. Rev. 10:165-176. Ref. Dec. 1949. 516 So15
- English summary.
- Includes mosquito vectors.
- 6041 RUSSELL, E. Why and how the Hanford Mosquito Abatement District believes in permanent mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 18:85. 1950. 428 C763
- 6042 SALT LAKE CITY MOSQUITO ABATEMENT DISTRICT. Summary of the annual report, 1949. Salt Lake City, 1950. 11 p. 420 Sa3
- 6043 SASSE, B. E. DDT in alcohol as a larvicide for *Aedes aegypti* control. Mosquito News 10:144-149. Sept. 1950. 421 M85
- 6044 SEN, P. Diagnostic characters for the differentiation of the larvae of *A[nopheles]* *subpictus* and *A. sundaicus*. Indian J. Malariol. 3:265-268. Dec. 1949. 448.8 In24
- 6045 SERGENT, E. Aphorismes de paludologie. Soc. Mex. de Hist. Nat. Rev. 10:121-136. Dec. 1949. 516 So15
- Anopheles* as vectors.
- 6046 SHORTT, H. E. Recent advances in our knowledge of the malaria parasite [*Plasmodium*]. Brit. Med. J. 4679:606-608. Sept. 9, 1950. 448.8 B77
- Including transmission by *Anopheles* spp.
- 6047 SMITH, E. A. The permanent control program in Merced County. Calif. Mosquito Control Assoc. Proc. & Papers 18:84. 1950. 428 C763
- 6048 SMITH, G. E. Investigation and evaluation of water development programs relative to mosquito production. Calif. Mosquito Control Assoc. Proc. & Papers 18:44-46. 1950. 428 C763
- 6049 SMITH, G. F. The application of ecological facts to mosquito control problems in California. Calif. Mosquito Control Assoc. Proc. & Papers 18:61-62. 1950. 428 C763
- 6050 SOMEREN, E. C. C. VAN. Ethiopian Culicidae: a description of a new sub-species of *Aedes* (*Aëdimorphus*) *tricholabis* Edwards. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:67-69. June 15, 1950. 420 L84Pb
- 6051 SOMEREN, E. C. C. VAN. Ethiopian Culicidae: a description of the larva and pupa of *Aedes* (*Aëdimorphus*) *mutilis* Edwards. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:65-66. June 15, 1950. 420 L84Pb
- 6052 SOOTER, C. A. Insects and encephalitis. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:42. 1950. 422.12 N81
- Role of mosquitoes and other insects in transmission of human and equine diseases.
- 6053 SPECIAL problem discussion. Calif. Mosquito Control Assoc. Proc. & Papers 18:54-58. 1950. 428 C763
- R. F. Peters, moderator.
- 6054 SPERBECK, T. M. Rice field anopheline control—when is the best time? Calif. Mosquito Control Assoc. Proc. & Papers 18:81-82. 1950. 428 C763
- Anopheles freeborni*.
- 6055 STAGE, H. H., and SOLLERS, H. References to literature of interest to mosquito control workers and malariologists. Mosquito News 10:161-167. Sept. 1950. 421 M85
- 6056 STEAD, F. M. Problems of water pollution in relation to mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 18:49-52. 1950. 428 C763
- Includes discussion.
- 6057 SUBRAMANIAN, R., VAID, B. K., and DIXIT, D. T. Kaknar Nyay Panchayat malaria control co-operative scheme. Indian J. Malariol. 3:339-348. Dec. 1949. 448.8 In24
- DDT used for *Anopheles* control.
- 6058 SWELLENGREBEL, N. H. How the Malaria Service in Indonesia came into being, 1898-1948. J. Hyg. [London] 48:146-157. June 1950. 449.8 J82
- Including *Anopheles* control.
- 6059 SYMPOSIUM: The place and scope of ecology as it is related to mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 18:58-76. 1950. 428 C763
- Introduction by E. A. Smith, moderator.
- 6060 SYMPOSIUM: The place and scope of eliminative control activities in California mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 18:76-90. 1950. 428 C763
- Introduction by T. D. Mulhern, moderator.
- 6061 SYMPOSIUM: Toxicants and their use in California mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 18:16-29. 1950. 428 C763
- Introduction by A. F. Gelb, moderator.
- 6062 SYMPOSIUM: Water resources development as related to mosquito abatement. Calif. Mosquito Control Assoc. Proc. & Papers 18:41-49. 1950. 428 C763
- Introduction by A. H. Dahl, moderator.
- 6063 THOMAS, I. M. The reactions of mosquito [*Culex fatigans*] larvae to regular repetitions of shadows as stimuli. Austral. J. Sci. Res. Ser. B: Biol. Sci. 3:113-123. Ref. Feb. 1950. 442.8 Au72
- 6064 THURMAN, D. C. JR. The ecology of *Aedes* mosquitoes in California. Calif. Mosquito Control Assoc. Proc. & Papers 18:62-65. Ref. 1950. 428 C763
- 6065 THURMAN, D. C., JR., and MORTENSON, E. W. Studies of the biology of *Aedes* mosquitoes in irrigated pastures in California during 1949. Calif. Mosquito Control Assoc. Proc. & Papers 18:66-68. 1950. 428 C763



- 6066 TIGERTT, W. D., and others. Japanese B encephalitis: a complete review of experience on Okinawa 1945-1949. *Amer. J. Trop. Med.* 30:689-722. Ref. Sept. 1950. 448.8 Am33
- W. M. Hammon, T. O. Berge, J. X. Blender, K. F. Burns, J. Casals, R. F. Cousins, H. L. Keegan, J. P. MacLaren, G. Meiklejohn, W. C. Reeves, D. M. Rees, and G. Sather, joint authors.
- Insect vector studies, p. 715-718. (On mosquitoes.)
- 6067 TREILLARD, M. *Anopheles hyrcanus* en Provence. *Cong. Internat. de Zool. Compt. Rend.* (1948) 13:505-506. 1949. 410.9 In8
- 6068 U. S. NAVAL MEDICAL RESEARCH INSTITUTE, BETHESDA, MARYLAND. Observations on the pre-erythrocytic stages of *Plasmodium relictum*, *P. cathemerium*, and *P. gallinaceum* in various birds, by C. G. Huff. Bethesda, Md., 1950. 13 p. Ref. (Proj. NM 005 048.01.01) 153.56 Ob7P
- Plasmodia obtained from mosquitoes.
- 6069 VARGAS, L. Lista de sinónimos de los *Aedes* americanos (Diptera: Culicidae). *Soc. Mex. de Hist. Nat.* Rev. 10:219-224. Dec. 1949. 516 Sol5
- English summary.
- 6070 VARGAS, L. Malaria along the Mexico-United States border. *World Health Organ. B.* 2:611-620. Ref. 1950. 449.9 W892B
- Distribution of *Anopheles* spp.
- 6071 VARGAS, L. Nota sobre la distribución holártica del grupo *maculipennis* y del subgénero *Caelodiazesis*. *Missirolimyia*, nov. subg. de *Anopheles*. (Diptera: Culicidae). *Riv. di Parassitol.* 11:73-84. Ref. June 1950. 436.8 R52
- English summary.
- 6072 VEDAMANIKKAM, J. C. Incidence of *Anopheles fluviatilis* James larvae in a D.D.T. sprayed area in Wynad, South India. *Indian J. Malariol.* 3:331-338. Dec. 1949. 448.8 In24
- 6073 VENKAT RAO, V. A critical review of malaria control measures in India. *Indian J. Malariol.* 3:313-326. Ref. Dec. 1949. 448.8 In24
- Use of DDT for *Anopheles* control.
- 6074 VISWANATHAN, D. K., and RAMACHANDRA RAO, T. Control of rural malaria with D.D.T. indoor residual spraying in Kanara and Dharwar Districts, Bombay State. Third year's results, 1948-49. *Indian J. Malariol.* 3:269-312. Dec. 1949. 448.8 In24
- Includes discussion.
- 6075 VOCKEROTH, J. R. Specific characters in tarsal claws of some species of *Aedes* (Diptera: Culicidae). *Canad. Ent.* 82:160-162. July 1950. 421 C16
- 6076 WILKINS, R. A. Larvicides, insecticides and adulticides used in the control of mosquitoes in Utah during the season of 1949. *Calif. Mosquito Control Assoc. Proc. & Papers* 18:7. 1950. 428 C763
- 6077 WOODY, A. H. Report from Portland, Oregon. *Calif. Mosquito Control Assoc. Proc. & Papers* 18:9-10. 1950. 428 C763
- 6078 YATES, W. W. The toxicity of several insecticide residues to mosquitoes common in the Pacific Northwest. *Mosquito News* 10:132-134. Sept. 1950. 421 M85
- 6079 YOUNG, O. W. Significant problems in the development of a new mosquito abatement district in Utah. *Calif. Mosquito Control Assoc. Proc. & Papers* 18:15-16. 1950. 428 C763
- 6080 ZULUETA, J. DE. Comparative oviposition experiments with caged mosquitoes. *Amer. J. Hyg.* 52:133-142. Ref. Sept. 1950. 449.8 Am3
- Experiments with *Anopheles darlingi* and *Culex fatigans*.

#### HEMIPTERA (HETEROPTERA AND HOMOPTERA)

- 6084 ANDISON, H. The bramble leafhopper [*Typhlocyba tenerrima*]. *Canada. Sci. Serv. Div. Ent. Processed* P. 116,3 p. Mar. 1950. 423.92 C16P
- 6085 AUCLAIR, J. L., and MALTAIS, J. B. Studies on the resistance of plants to aphids by the method of paper partition chromatography. *Canad. Ent.* 82:175-176. Aug. 1950. 421 C16
- 6086 BEAMER, R. H. Five new genera of delaphacine fulgorids (Homoptera-Fulgoridae-Delphacinae). *Kans. Ent. Soc. J.* 23:128-133. Oct. 1950. 420 K13
- Parkana, *Penepissonotus*, *Keyflana*, *Kellisoidea*, and *Rotundifronta*.
- 6087 BEIRNE, B. P. A new species of *Laccocera* from Canada and records of other Canadian species (Homoptera: Araeopidae). *Canad. Ent.* 82:173-174. Aug. 1950. 421 C16
- 6088 BLACKBURN, F. H. B. Further experiments on the control of the sugar cane froghopper [*Tomasia saccharina*]. *Brit. West Indies Sugar Assoc. Proc. Mtg. Sugar Technol.* 1949:122-130. 65.9 B775
- Includes discussion.
- 6089 BRUCE, W. N. Boxelder bug [*Leptocoris trivittatus*] control. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:19. 1950. 422.12 N81
- 6090 BRUES, C. T. Large raptorial birds as enemies of cicadas. *Psyche* 57:74-75. June 1950. 421 P95
- 6091 CAMERON, A. E. Red scale [*Aonidiella aurantii*] control. *Citrus News* 26:100,103. July 1950. 80 C494
- 6092 CARAYON, J. Caractères anatomiques et position systématique des Hémiptères Nabidae (note préliminaire). *Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22*: 95-101. Jan. 1950. 410.9 P213
- 6093 CARLO, J. A. DE. Géneros y especies de la subfamilia Ambrysinae Usinger (Hemiptera-Naucoridae) *Soc. Cient. Argentina An.* 150:3-27. Ref. July 1950. 516 Sol1
- New species in *Ambrysus*.
- 6094 CHINA, W. E. A check list of the British Hemiptera-Homoptera Auchenorrhyncha. *Ent. Mon. Mag.* 86:243-251. Aug. 1950. 421 En86
- 6095 COWLAND, J. W., and HANNA, A. D. The cotton jassid, *Empoasca lybica* (De Berg.) during the dead seasons in the Gezira, Anglo-Egyptian Sudan. *B. Ent. Res.* 41:355-358. Sept. 1950. 421 B87
- 6096 CUTRIGHT, C. R. Natural control of Comstock's mealy bug [*Pseudococcus comstocki*] in Ohio. *Ohio Farm & Home Res. [Ohio Sta.]* 35:55-56. July/Aug. 1950. 100 Oh38
- 6097 DANIELS, L. B. Insecticidal control of the vectors of virus diseases. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:22. 1950. 422.12 N81
- Paratrioza cockerelli, *Empoasca fabae*, *Macrosiphum solanifolii* - vectors of potato diseases.
- 6098 DELATTRE, R. Description d'un *Bryocorinae* (Hem. Miridae) nouveau d'Afrique Occidentale. *Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22*:263-265. Mar. 1950. 410.9 P213
- In *Villiersicoris* n.g.
- 6099 DELONG, D. M. The genera *Baldulus* and *Dalbulus* in North America including Mexico. (Homoptera: Cicadellidae). *Brooklyn Ent. Soc. B.* 45:105-116. Oct. 1950. 420 B79
- 6100 DELONG, D. M., and RUPPEL, R. F. A new genus *Eupterella* and five new species of leafhoppers related to *Cicadella* (Homoptera-Cicadellidae). *Ohio J. Sci.* 50:239-243. Sept. 1950. 410 Oh3
- 6101 DUPUIS, C. Données nouvelles sur la morphologie abdominale des Hémiptères Hétéroptères et en particulier des Pentatomidae. *Cong. Internat. de Zool. Compt. Rend.* (1948)13:471-472. 1949. 410.9 In8
- 6102 ESAKI, T., and ISHIHARA, T. Hemiptera of Shansi, North China. Hemiptera I. Homoptera. *Mushi* 21:39-48. May 20, 1950. 421 M97
- Includes new species in *Melampsalta* and *Terauchiana*.
- 6103 FILIPPI, N. The Hemiptera Heteroptera of the Lagoon of Venice. (In Italian.) *Soc. Venez. di Storia Nat. e Mus. Civico di Storia Nat. B.* 4:1-61. July 29, 1950. 410.9 Sol26
- Includes new forms in *Eurydema* and *Notonecta*.
- 6104 FLANDERS, S. E. Purple scale [*Lepidosaphes beckii*] enemy [*Aphytis* sp. X] goes to work. *Citrus Leaves* 30(11):42-43. Nov. 1950. 80 C492



- 6105 FLOCK, R. A. *Empoasca bipunctata* introduced into California. J. Econ. Ent. 43:565. Aug.1950. 421 J822  
Pest of elms.
- 6106 FLUITER, H. J. DE. Results obtained in an investigation of the influence of temperature and length of day on the occurrence of sexual forms in *Aphis (Doralis) fabae* Scop, the black bean aphid. (In Dutch.) Nederland. Ent. Ver. Verslag en Wetensch. Meded. 1950:xxv-xxix. May 1,1950. 420 N28V
- 6107 FONSECA, J. P. DA. Contribution to the knowledge of the Neotropical Membracidae. V. (In Portuguese.) Inst. Biol. São Paulo. Arg. (1949/50)19:111-116. 1950. 442.9 Sa6  
English summary.  
New species in Gonocophora n.g., and Membracis.
- 6108 FRANQUEN, P. DE. Insecticides pour combattre *Antestia prox. lineaticollis* Stål; recherches biométriques concernant ses dégâts sur *Coffea arabica*. Cong. Internatl. de Zool. Compt. Rend. (1948)13:492-493. 1949. 410.9 In8
- 6109 FRIEND, W. H., and WHITE, A. N. Oils sprays for citrus scale. Tex. Farming & Citric. 27(3):12. Sept. 1950. 80 T31  
*Aonidiella aurantii*, *Lepidosaphes beckii* and *Parlatoria pergandii*.
- 6110 GAILLARD, G. E. The aphid—an insect allergen. J. Allergy 21:386-399. Ref. Sept.1950. 448.8 J8236
- 6111 GAMBRELL, F. L., and YOUNG, H. C., JR. Habits, rates of infestation and control of woolly apple aphid [*Eriosoma lanigerum*] in nursery plantings. J. Econ. Ent. 43:463-465. Aug.1950. 421 J822
- 6112 GHESQUIÈRE, J. Synonymie relative à *Orthezia insignis* Brown (Hemip. Coccoidea, Ortheziidae). Soc. Ent. de Belg. B. & Ann. 86:32. Mar.5,1950. 420 B41
- 6113 GIBBS, A. J. *Crithidia familiaris* n. sp. in *Cenaeus carnifex* Fabr. (Hemiptera). Parasitology 40:322-327. Oct.1950. 448.8 P21
- 6114 GILMORE, J. U. The suckfly [*Dicyphus minimus*] on tobacco, suggestions for control. U. S. Bur. Ent. & Plant Quar. EC-15,7 p.-folder. Aug.1950. 1.967 A2Ec1
- 6115 GIOVANNI, B., and DINO, P. Experiments in control of *Aspidiotus perniciosus* and the gray scale, *Epidiaspis picicola* carried on in 1949. (In Italian.) Not. sulle Mal. delle Pianta 10:33-43. May/June 1950. 464.8 N84
- 6116 GRAVESTINE, W. H. A new bug and a new psyllid for our fauna. (In Dutch.) Nederland. Ent. Ver. Verslag en Wetensch. Meded. 1950:xx-xxi. May 1,1950. 420 N28V  
*Phytocoris nowickyi*; *Psylla viscicola*.
- 6117 HANNA, A. D. The effect of rainfall on the cotton jassid, *Empoasca lybica* (De Berg.) in the Gezira, Anglo-Egyptian Sudan. B. Ent. Res. 41:359-369. Sept. 1950. 421 B87
- 6118 IGLINSKY, W., JR., and RAINWATER, C. F. *Orius insidiosus*, an enemy of a spider mite [*Septanychus* sp.] on cotton. J. Econ. Ent. 43:567-568. Aug.1950. 421 J822
- 6119 ISHIHARA, T., and UWAGAWA, M. Ecological notes on *Eriococcus sojae* Kuwana (Hemiptera : Coccidae). (In Japanese.) Oyo-Kontyu 5:187-192. Mar.1950. 421 Oy6  
English summary.
- 6120 KANDA, S. Some scale-insects from Shansi, North China. (In Japanese.) Mushi 21:33-38. May 20, 1950. 421 M97  
New species in *Pulvinaria*, described in English.
- 6121 KAUSSARI, M. Cochenilles nuisibles aux arbres fruitiers en Iran. (Sum.) Iran. Dépt. Gén. de la Protect. des Plantes. Lab. Ent. et Phytopath. Appl. 9:1-4. (Concl.) Dec.1949. 464.9 P432  
Persian text, p. 1-22.
- 6122 KHALIFA, A. Spermatophore production and egg-laying behaviour in *Rhodnius prolixus* Stål. (Hemiptera; Reduviidae). Parasitology 40:283-289. Ref. Oct. 1950. 448.8 P21
- 6123 KNOWLTON, G. F. *Periphyllus* aphid notes. Brooklyn Ent. Soc. B. 45:118. Oct.1950. 420 B79
- 6124 KORMILEV, N. A. Una especie nueva del genero *Placcocoris* Mayr en la Argentina (Hemiptera, Pentatomidae). Mus. Argentino de Cien. Nat. "Bernardino Rivadavia." Comun. Cien. Zool. 1(9), 12 p. 1949. 410.9 B862C  
English summary.
- 6125 KORMILEV, N. A. *Riggiella vianai* n.g., n. sp. de la Argentina (Hemiptera, Lygaeidae, Blissinae). Mus. Argentino de Cien. Nat. "Bernardino Rivadavia." Comun. Cien. Zool. 1(11), 13 p. 1949. 410.9 B862C  
English summary.
- 6126 KOVAX, G. G. Die laus aus China macht sorgen; die San José-schildlaus [*Aspidiotus perniciosus*] jetzt auch in Rheinhessen festgestellt. Landbote 4(34):6. Aug.26,1950. 18 L2336
- 6127 KRISHNAMURTI, B. Aphididae of Mysore. III. Indian J. Ent. 10:51-53. June 1948, pub. June 1950. 420 In23
- 6128 LAL, R. Laboratory trials with DDT on *Empoasca kerri* var. *motti* Pruthi. Indian J. Ent. 10:127-129. June 1948, pub. June 1950. 420 In23
- 6129 LATIF, A. Effect of temperature on the development of eggs of *Drosicha stebbingii* (Gr.), (Coccidae: Homoptera). Pakistan J. Sci. Res. 1:77-90. July 1949. 475 P173
- 6130 LEMONS, E. Parathion spray, aviation team up to win the greenbug [*Toxoptera graminum*] war. Farmer-Stockman 53,i.e.63(9):8. Sept.1950. 6 Ok45  
Applied to wheat in Oklahoma.
- 6131 MANUNTA, C. On the red pigment of a lygaeid bug, *Pyrrhocoris apterus*. (In Italian.) Soc. Ital. di Biol. Sper. B. 26:295-297. Mar.1950. 442.8 S012
- 6132 MANUNTA, C. On the red pigment of a lygaeid bug, *Scantius aegyptius*, and of two mydochids, *Oxigarellus lavateurs* [i.e. *Oxycaenus lavaterae* (?) ] and *Apterola pedestris*. (In Italian.) Soc. Ital. di Biol. Sper. B. 26:297-298. Mar.1950. 442.8 S012
- 6133 MATHUR, R. N. Immature stages of *Psylla cedrelae* Kieffer (Homopt., Psyllidae). Ent. Mon. Mag. 86:226-227. Aug.1950. 421 En86
- 6134 METCALF, Z. P. Zoogeography of the Homoptera. Cong. Internatl. de Zool. Compt. Rend. (1948)13:538-544. 1949. 410.9 In8
- 6135 MICHELbacher, A. E., and MIDDLEKAUFF, W. W. Control of the melon aphid [*Aphis gossypii*] in northern California. J. Econ. Ent. 43:444-447. Aug.1950. 421 J822
- 6136 MICHELbacher, A. E., MIDDLEKAUFF, W. W., and WEGENEK, E. The walnut aphid [*Chromaphis juglandicola*] in northern California. J. Econ. Ent. 43:448-456. Aug.1950. 421 J822
- 6137 NAST, J. New genera and species of Neotropical Fulgoridae in the collection of the British Museum (Homoptera). Mus. Zool. Polon. Ann. 14:167-175. Mar.1,1950. 410.9 W26  
New species in *Flatolystra* n.g., *Kutariana* n.g., *Neocynthus* n.g., *Episcus*, and *Aracynthus*.
- 6138 NEISWANDER, R. B. Control of soft scales [*Coccus hesperidum*]. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:61-62. 1950. 422.12 N81  
Also *Lecanium* spp.
- 6139 OMER-COOPER, J., and WHITEHEAD, G. B. Studies on the biological control of red scale [*Aonidiella aurantii*] in the Eastern Cape Province. 4. Citrus Grower 200:6-7. Sept.1950. 80 C495
- 6140 OOSTEN, A. VAN. Effects of woolly apple aphid [*Eriosoma lanigerum*] on Jonathan apples. (In Dutch.) Fruitteelt 40:700. Sept.14,1950. 86 N28
- 6141 PAIKIN, D. M. Results of testing thiophos in the control of *Eurygaster integriceps*. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(7):33-35. 1950. 20 Ak1
- 6142 PETERSON, A. G., and GRANOVSKY, A. A. Relation of *Empoasca fabae* of hopperburn and yields of potatoes. J. Econ. Ent. 43:484-487. Ref. Aug.1950. 421 J822
- 6143 POL, P. H. VAN DE. The San José scale [*Aspidiotus perniciosus*] a dreaded parasite abroad. (In Dutch.) Fruitteelt 40:702-703. Sept.14,1950. 86 N28
- 6144 PRABHAKAR RAO, V., and CHATTERJEE, S. N. The San José scale [*Aspidiotus perniciosus*] insects usually mistaken therefor in India. Indian J. Ent. 10:5-29. June 1948, pub. June 1950. 420 In23  
Includes descriptions of *Hemiberlesia* spp., *Aonidiella* spp., *Chrysomphalus dictyospermi*, *Duplaspidiotus tesseratus*, *Parlatoria* spp., *Howardia biclavus*, and *Pseudaulacaspis pentagona*.
- 6145 PRABHAKAR RAO, V. The spread of the San José scale—*Quadraspidotus* [i.e. *Aspidiotus*] *perniciosus* (Comstock)—in India. Indian J. Ent. 10:41-44. June 1948, pub. June 1950. 420 In23



- 6146 PRABHAKER RAO, V. The status of the genus *Perissopneumon* Newstead and description of the new genus *Misracoccus* (Hemiptera: Coccidae). Roy. Ent. Soc. London, Proc. Ser. B:114-120. Ref. Aug.15,1950. 420 L84Pb
- 6147 PRITCHARD, A. E., and BEER, R. E. Biology and control of *Asterolecanium* scales on oaks in California. J. Econ. Ent. 43:494-497. Aug.1950. 421 J822
- 6148 ROGOFF, W. M. Control of boxelder bugs [*Leptocoris trivittatus*]. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:19. 1950. 422.12 N81
- 6149 RUDE, C. S. Cotton injured by *Nysius californicus*. J. Econ. Ent. 43:548-549. Aug.1950. 421 J822
- 6150 SCHREIBER, G., and PELLEGRINO, J. Heteropneustosis of autosomes as a possible mechanism for speciation (cytological researches on some neotropical Hemiptera). (In Italian.) Sci. Genet. 3:215-226. May 1950. 442.8 Sci2
- English summary.  
Studies on *Reduviidae*.
- 6151 SCHWING, E. A. Curly top [of sugar beets] controlled despite hopper [*Circulifer tenellus*] outbreak. Calif. Farmer, North. Ed. 193:285. Sept.23,1950. 6 C126
- 6152 SELLERS, W. F., and ROBINSON, G. G. The effect of the miticide neotran upon the laboratory production of *Aspidiotus lataniae* Signoret as a coccinellid food. Canad. Ent. 82:170-173. Aug.1950. 421 C16
- 6153 SEN, A. C. The *Pyrilla* [perpusilla] pest of cane in Bihar and its control by the utilisation of its natural parasites. Indian J. Ent. 10:45-50. June 1948, pub. June 1950. 420 In23
- 6154 SHANDS, W. A., and others. Control of aphids on potatoes with DDT when used with fungicides. Maine. Agr. Expt. Sta. B. 480,41 p. May 1950. 100 M28S
- G. W. Simpson, P. M. Lombard, R. M. Cobb, and P. H. Lung, joint authors.
- 6155 SHAPOSHNIKOV, G. KH. On migrations of gall apple aphid [*Anuraphis devecta*]. (In Russian.) Akad. Nauk SSSR. Dok. 72:1183-1185. Ref. June 21,1950. 511 P444A
- 6156 SHUMANOV, E. A. *Cicadetta montana* Scop. as a forest pest. (In Russian.) Akad. Nauk SSSR. Dok. 72:1127-1130. June 21,1950. 511 P444A
- 6157 SMIT, B. First kill your horse. (In Afrikaans.) Landbouweekblad 32(1629):15. Oct.4,1950. 24 L232
- Coccus hesperidum* and its control.
- 6158 SOIKA, A. G. Studies on holocoenoses. III. The Hemiptera Heteroptera in the holocoenoses of the Lagoon of Venice. (In Italian.) Soc. Venez. di Storia Nat. e Mus. Civico di Storia Nat. B. 4:62-99. July 29,1950. 410.9 Sci26
- 6159 STAFFORD, E. M., and BARNES, D. F. Control of fig scale [*Lepidosaphes ficus*] with parathion. Calif. Fig Inst. Proc. Annu. Res. Conf. 3:19-20. 1949. 93.44 C122P
- 6160 STAFFORD, E. M., and BARNES, D. F. Fig scale [*Lepidosaphes ficus*] control experiments in 1949. Calif. Fig Inst. Proc. Annu. Res. Conf. 4:33-37. 1950. 93.44 C122P
- 6161 STRAWINSKI, K. On the biological dependency of Hemiptera-Heteroptera on trees and shrubs. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. C 5:65-87. Aug.5,1950. Ref. 512 L96Ac
- English summary.
- 6162 STROYAN, H. L. G. *Jacksonia papillata* Theobald (Hemiptera, Aphididae): a redescription with biological and taxonomic notes. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:90-95. June 15,1950. 420 L84Pb
- 6163 STROYAN, H. L. G. Recent additions to the British aphid fauna. I. *Dactynotus Rafinesque* to *Rhopalosiphum Koch*. C. L. Roy. Ent. Soc. London, Trans. 101: 89-124. Ref. Sept.30,1950. 420 L84
- 6164 TCHOVAKHIN, P. V. *Typhlocyba rosae* L. (Sum.) Iran. Dépt. Gén. de la Protect. des Plantes. Lab. Ent. et Phytopath. Appl. 9:9-10. Dec.1949. 464.9 P432
- Persian text, p. 33-46.
- 6165 THOMAS, G. W. Mealy bugs [*Pseudococcus maritimus*] on grapes. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:62-63. 1950. 422.12 N81
- 6166 TILDEN, J. W. Biological notes on *Corythucha morrilli* O. & D. (Hemiptera: Tingidae). Ent. News [Philadelphia] 61:135-137. Oct.1950. 421 En88
- 6167 THE TOBACCO aphid problem. (Abs.) Tobacco Insect Conf. Proc. 10:6. July 27,1950. 423.9 T55
- N. Allen, leader.
- Insecticide tests on flue-cured tobacco, by A. N. Tissot and L. C. Kuitert; Ecological phases of the problem, by F. R. Lawson.
- 6168 TORRICO M., R. A. Conocimientos actuales sobre la epidemiología de la enfermedad de Chagas en Bolivia. Ofic. Sanit. Panamer. B. 29:827-840. Ref. Aug.1950. 449.9 P192B
- English summary.
- Principal vector is *Triatoma infestans*; *Eutritoma sordida* also important.
- 6169 TURICA, A. "Pulgon negro" vector de la "tristeza" o "podredumbre de las raicillas" del naranjo. Argentina. Min. de Agr. Almanaque 25:271-272. 1950. 9 Ag874
- Paratoxoptera argentinensis*.
- 6170 TUTHILL, L. D. Taxonomic notes on two South American psyllids (Homoptera). Ent. News [Philadelphia] 61:178-179. Nov.1950. 421 En88
- Gyropsylla*, *Holotrioza*.
- 6171 VIVIANI, W. The woolly aphid, *Phloeomyzus passerinii*, winters on the poplar. (In Italian.) Gior. di Agr. 60:293-294. Sept.17,1950. 16 It1G
- 6172 WILLIAMS, C. B. From an entomologist's notebook. I. White-flies. Countryman [Burford] 42:109-111. Autumn 1950. 281.28 C832
- Aleyrodidae*.
- 6173 WOLFE, H. R., ANTHON, E. W., and JONES, L. S. Transmission of western X-disease of peaches by the leafhopper, *Colladonus geminatus* (Van D.). (Abs.) Phytopathology 40:971. Oct.1950. 464.8 P56
- 6174 WOOD, S. F. Dispersal flight of *Triatoma* in southern Arizona. J. Parasitol. 36:498-499. Oct.1950. 448.8 J824
- 6175 WOOD-BAKER, C. S. Records of three British aphids (Hem.). Ent. Mon. Mag. 86:270-272. Sept. 1950. 421 En86
- Cryptaphis setiger*, *Myzus papillatus*, *Chaitophorus coracinus*.
- 6176 WYGODZINSKY, P. Contribution towards the knowledge of the "Emesinae" (Reduviidae, Hemiptera). Rev. Bras. de Biol. 10:241-251. July 1950. 442.8 R326
- New species in *Bargylia* and *Malacopus*.
- 6177 WYGODZINSKY, P. On some Emesinae (Reduviidae, Hemiptera). (In Portuguese.) Rev. Bras. de Biol. 10:73-84. May 1950. 442.8 R326
- English summary.
- New species in *Amilcaria* n.g., *Mayemesa*, and *Polauchenia*.
- 6178 WYGODZINSKY, P. Sobre el genero *Berge-mesa* nov. (Emesinae, Reduviidae, Hemiptera). Soc. Cient. Argentina An. 150:28-45. July 1950. 516 Sol
- English summary.

## HYMENOPTERA

- 6179 ARAUJO, R. L. Contribution to the knowledge of *Polybia punctata* Buysson, 1908 (Hym.-Vespididae). (In Portuguese.) Inst. Biol. São Paulo. Arq. (1949/50)19: 269-274. 1950. 442.9 Sa6
- English summary.
- 6180 AUTUORI, M. Contribution to the knowledge of the "sauva" (*Atta* spp. Hymenoptera-Formicidae). V. Number of sexuate individuals and reduction of the number of the incipient nests. (In Portuguese.) Inst. Biol. São Paulo. Arq. (1949/50)19:325-331. 1950. 442.9 Sa6
- English summary.
- 6181 BAUDOIN, R. Un hyménoptère nouveau pour la zone intercotidale de Roscoff. Cong. Internat. de Zool. Compt. Rend. (1948)13:469-470. 1949. 410.9 In8
- Platymischus* sp.
- 6182 BENOIT, P. L. G. Les Sapygidae (Hym.), famille nouvelle pour la faune du Congo Belge. Soc. Ent. de Belg. B. & Ann. 86:58-59. May 6,1950. 420 B41
- Sapyga lugens*.
- 6183 BENSON, R. B. An introduction to the natural history of British sawflies (Hymenoptera Symphyta). Soc. Brit. Ent.-Trans. 10:45-142. Ref. July 31,1950. 420 Sol5
- 6184 BENSON, R. B. An outbreak of *Pristiphora subarctica* (Forsslund) (Hym., Tenthredinidae) a new British sawfly on spruce. Ent. Mon. Mag. 86:223. July 1950. 421 En86



- 6185 BONELLI, B. Biological observations on *Halictus malachurus* K. (Hymenoptera-Apidae). (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49)17:22-42. 1950. 420 B63
- 6186 BOWEN, V. T. Manganese metabolism of social Vespidae. J. Expt. Zool. 115:175-205. Ref. Oct. 1950. 410 J825
- Experiments with *Vespula* spp. and *Vespa crabro* with radioactive manganese.
- 6187 BRADLEY, J. C. A new Malagasy *Scolia*. Ann. & Mag. Nat. Hist. (ser.12)3:764-765. Sept.1950. 410 An77
- 6188 BROWN, W. L., JR. The status of two common North American carpenter ants. Ent. News [Philadelphia] 61:157-161. Nov.1950. 421 En88
- Camponotus herculeanus* modoc; *C. ferrugineus*.
- 6189 CAMERON, E. The biology and economic importance of *Alomya debellator* (F.), a remarkable parasite of the swift moth, *Hepialus lupulinus* (L.). B. Ent. Res. 41:429-438. Ref. Sept.1950. 421 B87
- 6190 CRÉVECOEUR, A. Remarques sur *Torymus druparum* Boh., Chalcidoide phytophage. Soc. Ent. de Belg. B. & Ann. 86:65-66. May 6, 1950. 420 B41
- 6191 DAVIDSON, R. H. An effective ant bait formula. J. Econ. Ent. 43:565. Aug.1950. 421 J822
- Thallium sulfate bait for control of *Monomorium pharaonis*.
- 6192 DONISTHORPE, H. Further gynandromorph ants from Ireland. Entomologist 82:38-40. Feb.1949. 421 En8
- 6193 DONISTHORPE, H. Two more new ants from Turkey. Ent. Rec. & J. Variation 62:68-69. July/Aug. 1950. 421 En89
- New species in *Messor* and *Camponotus*.
- 6194 DOUTT, R. L., and SMITH, R. A. Males and intersexes in a normally thelytokous insect, *Tropidophryne melvillei* Compere (Hymenoptera, Encyrtidae). Canad. Ent. 82:165-170. Aug.1950. 421 C16
- 6195 DREISBACH, R. R. A new species of the genus *Psorthaspis* Hymenoptera: (Psammocharidae) from Arizona. Brooklyn Ent. Soc. B. 45:119-120. Oct.1950. 420 B79
- 6196 GHESQUIÈRE, J. Un chalcidien [*Dahlbominus fuscipennis*] parasite du lophyre du pin [*Diprion pini*] en Belgique. Soc. Ent. de Belg. B. & Ann. 86:31. Mar.5, 1950. 420 B41
- 6197 GHESQUIÈRE, J. Sur deux *Decatoma* nouveaux pour la faune de Belgique (Hym. Chalcidoidea Eurytomidae). Soc. Ent. de Belg. B. & Ann. 86:57-58. May 6, 1950. 420 B41
- 6198 GHIDINI, G. M. Biological researches on *Iridomyrmex pruinosus humilis* Mayr. (Hymenoptera: Formicidae). (In Italian.) Soc. Ent. Ital. B. 79:58-62. Nov.10, 1949. 420 It1
- 6199 GHIDINI, G. M. Biological testing of contact insecticides by means of actograms. (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49)17:122-129. 1950. 420 B63
- Tests with *Formica rufa pratensis*.
- 6200 GODANICH, A. Materials for the study of the Hymenoptera Braconidae. VI. (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49)17:83-92. Ref. 1950. 420 B63
- New species in *Chrysopophthorus* n.g.
- 6201 GOSSWALD, K. Parasitismus zwischen Ameisenvölkern. Umschau 50:527-530. Sept.1, 1950. 474 Um7
- 6202 GROSCHIN, H. Some amazing facts about ants. Frontiers 15:6-7. Oct.1950. 410 F92
- 6203 GUNST, J. H. DE. A good example of "mimicry". (In Dutch.) Ent. Ber. 13:142. Sept.1, 1950. 420 N38B
- Timulla mambla* resembling *Tillicera javana*.
- 6204 HILL, A. R. An ichneumonid [*Horogetes exareolatus*] (Hym.) parasite of *Lampronia rubiella* (Bjerk.) (Lep., Lampronidae). Ent. Mon. Mag. 86:216. July 1950. 421 En86
- 6205 HUGHES, Megachile centuncularis leaf-cutter bee. Irish Beekeeper 4:165-166. Sept.1950. 424.8 Ir42
- 6206 HURD, P. D., JR. Nomenclatorial notes on the genus *Pepsis* (Hymenoptera: Pompilidae). Pan-Pacific Ent. 26:132-133. July 1950. 421 P193
- 6207 INVREA, F. Advice on the correct preparation of Mutillidae and Chrysididae. (Hymenoptera). (In Italian.) Soc. Ent. Ital. B. 79:87-90. Dec.30, 1949. 420 It1
- 6208 KERR, W. E. Estudos sobre a genética de populações de himenópteros em geral e dos apíneos sociais em particular [Studies on the genetics of hymenopterous populations in general and of the social bees in particular]. Piracicaba, São Paulo, 1950. 100 p. 426 K46
- 6209 KLIMSTRA, W. D. Red ant [*Monomorium pharaonis*] predation on bob-white, *Colinus virginianus*, chicks. Auk 67:512-513. Oct.1950. 413.8 Au4
- 6210 KROMBEIN, K. V. A new *Nitela* from California (Hymenoptera, Sphecidae). Pan-Pacific Ent. 26:130-131. July 1950. 421 P193
- 6211 KUENEN, D. J. On *Hoplocampa flava* and *H. minuta*. (In Dutch.) Nederland. Ent. Ver. Verslag en Wetensch. Meded. 1950:xix-xx. May 1, 1950. 420 N28V
- 6212 LANHAM, U. N. A preoccupied subgeneric name in *Andrena* (Hymenoptera: Apoidea). Ent. News [Philadelphia] 61:140-141. Oct.1950. 421 En88
- Bythandrena* proposed to replace *Cryptandrena* Lanham, not *Pittioni*.
- 6213 MASI, L. Notes on chalcids from Palestine (Chalcidoidea Ashm. and Eucharidae Ashm.) (Hymenoptera Chalcidoidea). (In Italian.) Soc. Ent. Ital. B. 79:91-93. Dec.30, 1949. 420 It1
- 6214 MEDINA, G. Eradication of ants; new method of application of carbon disulfide. (In Portuguese.) Lav. Arroz. 4(43):31-32. July 1950. 59.8 L39
- 6215 MINOCHI, T. On the life-history and control of *Cephalcia issihiki Takeuchi* (Hymenoptera) at Mt. One. (Abs.) (In Japanese.) Jap. Forestry Soc. J. 32:111-112. Apr.25, 1950. 99.8 N62
- 6216 MUKERJI, S. On a new species of phytophagous Chalcidoidea, *Megastigmus albizziae* sp. n., feeding on *Albizia odoratissima* pods in the environs of Delhi. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:129-132. Oct.16, 1950. 420 L84Pb
- 6217 OLBERG, G. Ein riech- und bohrspezialist. Kosmos 46:398-400. Sept.1950. 474 K842
- Ephialtes* manifestator parasite of woodboring insects.
- 6218 PASFIELD, G., and BRAITHWAITE, B. M. The Argentine ant (*Iridomyrmex humilis* Mayr). Agr. Gaz. N. S. Wales 61:335-340. Ref. July 1, 1950. 23 N472
- 6219 PASFIELD, G. Argentine ants [*Iridomyrmex humilis*] will be a problem next summer. Poultry Farmer [Sydney] 18(9):20-21. Aug.26, 1950. 280.28 Or32
- 6220 PAVAN, M. Iridomirmecine, antibiotique nouveau extrait de la fourmi argentine [*Iridomyrmex humilis*]. Cong. Internatl. de Zool. Compt. Rend. (1948) 13:500-501. 1949. 410.9 In8
- 6221 PITTIONI, B. Beiträge zur kenntnis italienischer bienen (Hymenoptera, Apoidea). I. Über einige arten der gattung *Andrena* Fabr. Bologna. U. Ist. di Ent. B. (1948-49)17:46-61. 1950. 420 B63
- 6222 RIEGEL, G. T. A new genus [Chorebiddella] and species of *Dacnusa* (Hym.: Braconidae). Ent. News [Philadelphia] 61:125-129. Oct.1950. 421 En88
- 6223 RISBEC, J. Contribution à l'étude des Proctotrupidae (Serphidae). Lab. d'Ent. du Secteur Soudanais de Rech. Agron. Trav. II, p.509-638. Ref. 1950. 423 R49F
- New species and forms in *Helorus*, *Exallonyx*, *Aclista*, *Oxylabis*, *Paramesius*, *Bothriopria*, *Neurogalesus*, *Hemilexis*, *Martinea* n.g., *Galesus*, *Ashmeadopria*, *Diapria*, *Phaenopria*, *Elgonia* n.g., *Aneuropria*, *Ceraphron*, *Trissolcus*, *Telenomus*, *Microphanurus*, *Holalcus*, *Trimorus*, *Hoplogryon*, *Paragryon*, *Scelio*, *Lepidoscelio*, *Hadronotus*, *Macroteleia*, *Ceratoteleia*, *Fuscicornia* n.g., *Mantibaria*, *Baryconus*, *Probaryconus*, *Holoteleia*, *Hoploteleia*, *Oxyscelio*, *Brachyscelio* n.g., *Psilanteris*, *Axestonotus*, *Inostemma*, *Platygaster*, *Limacis*, *Microgaster*, *Anaphes*, and *Atritomellus*.
- 6224 RUÍZ CASTRO, A. Las hormigas. Madrid, 1949. 78 p. 426 R85
- 6225 SAILER, R. I. Nest temperature of the common yellow jacket *Vespula arenaria* (F.). Kans. Ent. Soc. J. 23:134-137. Oct.1950. 420 K13
- 6226 SCHENK, P. J. Social wasps. I-II. (In Dutch.) Groenten en Fruit 6:33, 49-50. July 13-20, 1950. 80 G89
- 6227 SCHNEIRLA, T. Additional observations on army ants (*Eciton* sp.). (Abs.) N. Y. Ent. Soc. J. 58:200-201. Sept.1950. 420 N48J
- 6228 SCHUSTER, R. M. Notes on the *Pseudophotopsidinae* (Mutillidae) with description of the female sex. N. Y. Ent. Soc. J. 58:192-198. Sept.1950. 420 N48J



6229 STELFOX, A. W. Description of the female of *Phaenocarpa notabilis* Stelfox (Hym., Brac., Alysiinae) from Scotland. Ent. Mon. Mag. 86:272. Sept.1950. 421 En86

6230 VAN PELT, A. F. Oresema in nests of *Pheidole dentata* Mayr (Hymenoptera: Formicidae). Ent. News [Philadelphia] 61:161-163. Nov.1950. 421 En88

6231 VECHT, J. VAN DER. A note on the larrid wasps *Dalara schlegelii* (Rits.) and *Hyloliris mandibularis* Will. (Hym. Sphecoidea). Organ. Sci. Res. Indonesia. O. S. R. P. 13:14-16. 1950. 330.9 Or3P

6232 VESEY-FITZGERALD, D. Nesting habits of some aculeate Hymenoptera in the Seychelles. Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent. 25:75-80. Sept.15, 1950. 420 L84Pa

6233 VESEY-FITZGERALD, D. Notes on the genus *Ropalidia* (Hymenoptera: Vespidae) from Madagascar. Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent. 25:81-86. Sept.15, 1950. 420 L84Pa

6234 WATANABE, C. Braconidae of Shansi, China (Hymenoptera). Mushi 21:19-27. May 20, 1950. 421 M97  
New species in *Chelonus*, *Blacus*, and *Opius*.

6235 YASUMATSU, K. On the identity of four scellionid egg-parasites of some Japanese and Formosan pyraloid moths (Hymenoptera). Mushi 21:55-60. Ref. May 20, 1950. 421 M97  
*Telenomus* spp.

6236 YASUMATSU, K., and HIRASHIMA, Y. Revision of the genus *Osmia* of Japan and Korea (Hymenoptera: Megachilidae). Mushi 21:1-18. Ref. May 20, 1950. 421 M97

6237 ZOCCHI, R. Contribution to a knowledge of *Micronematus abbreviatus* Hartig (Hymenoptera - Symphyta - Tenthredinidae). (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49)17:225-233. 1950. 420 B63

6238 ZOCCHI, R. Contribution to a knowledge of *Neurotoma flaviventris* Retzius (Hymenoptera Symphyta - Pamphiliidae). (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49)17:209-224. 1950. 420 B63  
See also Apiculture and *Apis mellifera*.

#### LEPIDOPTERA

6239 ADAMCZEWSKI, S. Ecological studies on the mining Lepidoptera of the National Park in Białowieża. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. C 5:135-195. July 29, 1950. 512 L96Ac  
English summary.

6240 ALLAN, P. B. M. Dispersal of *Lysandra coridon* Poda. Entomologist 82:90-91. Apr.1949. 421 En8

6241 ANTRAM, C. B. Note on the butterflies of the New Forest in 1950. Ent. Rec. & J. Variation 62:75-76. Sept.1950. 421 En89

6242 APPLE, J. W., and DECKER, G. C. Corn borer [*Pyrausta nubilalis*] control on sweet corn with concentrated sprays. J. Econ. Ent. 43:407-414. Aug.1950. 421 J822

6243 APPLE, J. W. Effectiveness as related to timing of insecticide applications. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:51-52. 1950. 422.12 N81

*Pyrausta nubilalis* control.

6244 ARBUTHNOT, K. D. The status of European corn borer parasites in the North Central States at the close of 1949. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:44-46. 1950. 422.12 N81

6245 ARBUTHNOT, K. D. Status of European corn borer [*Pyrausta nubilalis*] parasites in the United States. J. Econ. Ent. 43:422-426. Aug.1950. 421 J822

Notes on *Lydella stabularis* griseus, *Horogenes punctatorius*, *Phaenogenes nigridentis*, *Macrocentrus gifuensis*, *Chelonus annulipes*, *Eulophus viridulus*, etc.

6246 ARMSTRONG, T. Control of borers attacking peach trees. Canada. Sci. Serv. Div. Ent. Processed P. 112.8 p. Mar.1949. 423.92 C16P

*Sanninoidea exitiosa*, *Synanthedon pictipes*, and *Scolytus rugulosus*.

6247 BACON, A. F. L. Paucity of butterflies in 1948. Entomologist 82:43-44. Feb.1949. 421 En8  
Great Britain.

6248 BARDIA BARDIA, R. Un peligro para nuestra fruticultura: la *Laspeyresia* [i. e. *Grapholitha*] molesta Busck. Cám. Ofic. Sind. Agr. de Barcelona. P. Divulg. 6,19 p. 1949. 15 C14P

6249 BAYLEY, C. H. The application of moth-resistant treatments. I-II. Textile Age 14(9):22-25; (10):34-35. Sept.-Oct.1950. 304.8 T3132

How the defence services of Canada attacked the problem of damage to service fabrics by clothes moths and similar insects.

6250 BEAUFOY, S., and BEAUFOY, E. M. Problem of the Jersey tiger moth [*Callimorpha quadripunctaria*]. Country Life [London] 108:1113. Oct.6, 1950. 80 C83

6251 BECK, S. D. Nutrition of the European corn borer, *Pyrausta nubilalis* (Hbn.). II. Some effects of diet on larval growth characteristics. Physiol. Zool. 23:353-361. Ref. Oct.1950. 410 P56

6252 BENOIT, P. L. G. Contribution à l'étude de la faune parasitaire de *Sylepta derogata* Fabricius (Lepid. Pyral.) au Congo Belge. Soc. Ent. de Belg. B. & Ann. 86: 87-103. May 6, 1950. 420 B41

*Apanteles syleptae*, A. sagax, *Bracon* sp.

6253 BIRKETT, N. L. Some Caernarvonshire records, 1949. Entomologist 82:278-279. Dec.1949. 421 En8

Lepidoptera.

6254 BLACKIE, J. E. H. The butterflies of the Monks Wood district. Entomologist 82:54-58. Mar.1949. 421 En8  
England.

6255 BLACKIE, J. E. H. *Coenonympha tullia* Müller; a postscript. Entomologist 82:83-84. Apr.1949. 421 En8

6256 BONGIOVANNI, G. C. A curious case of allo-trophy observed in *Pyrausta nubilalis* Hb. (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49)17:42-45. 1950. 420 B63  
Larva feeding on apples.

6257 BORGHETTI, H. C., PARDEY, W. N., and SHERBURNE, O. L. Mothproofing-detergent combinations. (Abs.) Textile Indus. 114(11):98-99. Nov.1950. 304.8 C823

6258 BOWDEN, S. R. Repeated pairing of *Pieris napi* females. Entomologist 82:118. May 1949. 421 En8

6259 BRETHERTON, R. F. Butterflies near Stockholm. Ent. Rec. & J. Variation 62:79-80. Sept.1950. 421 En89

6260 BRETHERTON, R. F. Spring butterflies in Bohemia. Entomologist 82:254-255. Nov.1949. 421 En8

6261 BRIMBLECOMBE, A. R., and CANNON, R. C. The protection of stored potatoes against the potato tuber moth, *Gnorimoschema operculella* Zell. Queensland J. Agr. Sci. 6:77-86. June 1949. 23 Q37

6262 BROOKS, C. J. New subspecies in the genera *Faunis*, *Aemona*, *Stichophthalma*, and *Enispe*, with revisional notes (Lep. Amathusiidae). Entomologist 82:256-259. Nov.1949. 421 En8

6263 CAMPBELL, J. L. Macrolepidoptera from Knapdale (Argyllshire). Entomologist 82:234-235. Oct. 1949. 421 En8

6264 CARPENTER, G. D. H., and JACKSON, T. H. E. New butterflies from East Africa and the Ituri Forest. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:97-108. Aug.15, 1950. 420 L84Pb

New species and forms in *Charaxes*, *Pseudathyma*, *Euptera*, *Pseudacraea*, *Bematistes*, *Acraea*, *Mimacraea*, and *Colotis*.

6265 CARTER, W. A. C. *Lycaena phlaeas* in 1948. Entomologist 82:42-43. Feb.1949. 421 En8

6266 CHACE, L. M. The picture story of the cecropia moth [*Hyalophora cecropia*]. Frontiers 15:16-17. Oct.1950. 410 F92

6267 CHAKRAVARTI, B. N. Niger seed (*Guizotia abyssinica*) as the rainy season host plant of *Perigea capensis* Gn. Indian J. Ent. 10:129-130. June 1948, pub. June 1950. 420 I23

6268 CHANDLER, S. C. Red-banded leaf roller [*Argyrotaenia velutinana*] in Illinois. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:61. 1950. 422.12 N81

6269 CHAPMAN, A. J., and others. DDT for control of the pink bollworm [*Pectinophora gossypiella*] in Mexico in 1946. J. Econ. Ent. 43:491-494. Aug.1950. 421 J822  
L. C. Fife, G. L. Smith, and J. C. Clark, joint authors.

6270 CHEEMA, P. S. Differentiation between the sugarcane root-borer [*Emmalocera depressella*] and stem-borer [*Argyria sticticrasis*] attack in the early stages of crop growth as well as at harvest. Indian J. Ent. 10:130-131. June 1948, pub. June 1950. 420 I23



- 6271 CHIANG, H. C., and HODSON, A. C. Stalk breakage caused by European corn borer [*Pyrausta nubilalis*] and its effect on the harvesting of field corn. *J. Econ. Ent.* 43:415-422. Aug. 1950. 421 J822
- 6272 CHRISTENSEN, P. J. H. Studien über die postembryonale entwicklung bei Cochlidion limacodes Hufn. (fam. Cochlididae, Lepidoptera). *Danske Vidensk. Selsk. Biol. Skr.* 7(2), 34 p. Ref. 1950. 442.9 D23B
- 6273 CLARKE, J. F. G. Two new genera and three new species of Microlepidoptera from Argentina (Gelechiidae). *Wash. Acad. Sci. J.* 40:285-289. Ref. Sept. 15, 1950. 500 W276J
- New species in Eulichonodes n.g., Darlia n.g., and Gnori-moschema.
- 6274 COCKAYNE, E. A. Aberrations of Hemero-phila abruptaria (Lep. Geometridae). *Entomologist* 82:49-52. Mar. 1949. 421 En8
- 6275 COCKAYNE, E. A. *Apamea furva*, Schiff., ssp. *Britannica*, spp. nov. *Ent. Rec. & J. Variation* 62:67. July/Aug. 1950. 421 En89
- 6276 COCKAYNE, E. A. A note on the nomenclature of *Philudoria potatoria*, L. *Ent. Rec. & J. Variation* 62:65-66. July/Aug. 1950. 421 En89
- 6277 COLLENETTE, C. L. The Lymantriidae of Bali. *Entomologist* 82:169-175. Aug. 1949. 421 En8
- Includes new species in Euproctis, Dura, and Perina.
- 6278 COLLENETTE, C. L. A revision of the genus *Eloria* Walker (Heterocera, Lymantriidae). *Ann. & Mag. Nat. Hist.* (ser. 12) 3:813-865. Oct. 1950. 410 An77
- 6279 CORBET, A. S. Papers on Malaysian Rhopalocera. VII. The Skeat Expedition to the Siamese Malay States in 1899-1900 and the faunal boundary in north Malaya. *Entomologist* 82:8-15. Jan. 1949. 421 En8
- 6280 CUTKOMP, L. K. A comparison of emulsion and wettable powder formulations used in control of corn borer [*Pyrausta nubilalis*]. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:10. 1950. 422.12 N81
- 6281 CUTKOMP, L. K., and HOLDAWAY, F. G. Small scale field evaluation of insecticides for corn borer [*Pyrausta nubilalis*] control. *J. Econ. Ent.* 43:433-438. Aug. 1950. 421 J822
- 6282 CUTRIGHT, C. R. Red-banded leaf roller [*Argyrotaenia velutinana*] in Ohio. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:61. 1950. 422.12 N81
- 6283 DANNREUTHER, T. Migration records, 1948. *Entomologist* 82:73-78, 105-110. Apr.-May 1949. 421 En8
- Chiefly Lepidoptera.
- 6284 DARLOW, H. M. Insects taken at sea in 1948. *Entomologist* 82:63-68. Mar. 1949. 421 En8
- Lepidoptera.
- 6285 DARLOW, H. M. Observations on the genus *Euphaedra* Hübn. (Lep. Rhop.) in Sierra Leone. *Entomologist* 82:193-200. Sept. 1949. 421 En8
- 6286 DAVIAULT, L. La tordeuse à tête verte de l'épinette: Tortrix packardiana Fern. *Assoc. Canad.-Franc. pour l'Avanc. des Sci.* 16:147-151. 1950. 517 M76
- 6287 DEAY, H. O. The use of light traps in corn borer [*Pyrausta nubilalis*] control. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:48-50. 1950. 422.12 N81
- 6288 DECKER, G. C. How can we properly time insecticide treatments? (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:25. 1950. 422.12 N81
- Pyrausta nubilalis* control.
- 6289 DE LUCCA, C. A contribution to the list of Maltese Lepidoptera. *Ent. Mon. Mag.* 86:232-233. Aug. 1950. 421 En86
- 6290 DE LUCCA, C. Microlepidoptera new to the Maltese Islands. *Entomologist* 82:148-149. July 1949. 421 En8
- 6291 DE WORMS, C. G. M. British Lepidoptera collecting, 1948. *Entomologist* 82:121-129. June 1949. 421 En8
- 6292 DICKE, F. F. Response of corn strains to European corn borer [*Pyrausta nubilalis*] infestation. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:47-48. 1950. 422.12 N81
- 6293 DOBROVOL'SKIY, B. V. The tent caterpillar [*Malacosoma neustria*] in the Don River Area and in Northern Caucasus. (In Russian.) *Lesn. Khoz.* 3(3):90-91. Mar. 1950. 99.8 L562
- 6294 DREUX, P. Action de la concentration totale des solutions sur l'automatisme du vaisseau dorsal de la chenille de *Galleria mellonella* L. *Soc. de Biol. Compt. Rend.* 144:804-806. June 1950. 442.9 P21
- 6295 DREUX, P., and FISZER, J. Action du baryum sur l'automatisme cardiaque de la chenille de *Galleria mellonella* L. et de *Gryllus domesticus* L. [i.e. *Acheta domestica*]. *Soc. de Biol. Compt. Rend.* 144:818-819. June 1950. 442.9 P21
- 6296 DREUX, P. Influence des ions K et Ca sur l'automatisme du vaisseau dorsal de la chenille de *Galleria mellonella* L. *Soc. de Biol. Compt. Rend.* 144:803-804. June 1950. 442.9 P21
- 6297 ELIOT, N. Autumn decrease of some Riviera butterflies and migrating Pieris brassicae. *Entomologist* 82:245-250. Nov. 1949. 421 En8
- 6298 ELIOT, N. *Celastrina* (*Lycaenopsis*) *argiolus* L. in south France. *Entomologist* 82:163-164. July 1949. 421 En8
- 6299 ELIOT, N. The significance of the wing pattern of *Precis* (Nymphalidae) in America. *Entomologist* 82:176-184. Aug. 1949. 421 En8
- 6300 FEARNEHOUGH, T. D. Aberrant specimens of [*Pararge*] *megea* and *P. aegeria*. *Ent. Rec. & J. Variation* 62:65. July/Aug. 1950. 421 En89
- 6301 FISHER, E. H. How much emphasis should we place on stalk shredders and other clean-up practices. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:25. 1950. 422.12 N81
- Pyrausta nubilalis* control.
- 6302 FLETCHER, D. S. Notes on some European species of *Selidosema* (Lep. Geometridae). *Entomologist* 82:217-222. Oct. 1949. 421 En8
- 6303 GÄBLER, H. Nadelmassen der fichte und kiefer, sowie kritische ei-, falter- und kotzahlen der nonne (*Lymantria monacha* L.). *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst* (n.s.) 4:121-131. Ref. (Concl.) July 1950. 464.9 N11
- 6304 GALLEGÓ M., F. L. Estudios entomológicos. Colombia. U. Nac. Facul. Nac. de Agron. Rev. 11(37):57-71. Mar. 1950. 9.4 C717
- Biology and control of *Xanthopastis molinai* (?) on Liliaceae, *Automeris junonia* on corn, *Halisdota schausi* and *Eudamus proteus* on beans, *Leucinodes elegantalis* on tomatoes, *Dirphia medinensis* on palms, corn, etc., and *Bephrata maculicollis* on Anonaceae.
- 6305 GAMBARO, P. The phenomenon of the resistance to arsenic in *Cydia* (*Laspeyresia*) [i.e. *Carpocapsa*] *pomonella* L. (In Italian.) *Padova. U. Ist. di Zool. e Anat. Compar. e Staz. Idrobiol. P.* (1947-49) 12(35), 8 p. 1949. 444.9 P13
- 6306 GIULIANELLI, E. *Carpocapsa pomonella* L. on *Diospyros kaki* L. (In Italian.) *Bologna. U. Ist. di Ent. B.* (1948-49) 17:177-179. 1950. 420 B63
- 6307 HAGGETT, G. Notes on Lepidoptera in West Sussex in 1948. *Entomologist* 82:25-32. Feb. 1949. 421 En8
- 6308 HARPER, G. W. *Celerio lineata livornica* in Sussex. *Entomologist* 82:261. Nov. 1949. 421 En8
- 6309 HARPER, G. W. Notes on a brood of *Nymphalis polychloros* L. *Entomologist* 82:185-187. Aug. 1949. 421 En8
- 6310 HARRIS, H. M. European corn borer [*Pyrausta nubilalis*]. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:44. 1950. 422.12 N81
- 6311 HERNÁNDEZ VIDAURRETA, M. El picudo negro del plátano [*Cosmopolites sordidus*]. *Agronomía [Habana]* (ser. 2) 10(8):2, 18, 26. Aug. 1950. 8 C893
- 6312 HESLOP, I. R. P. Autumn Lepidoptera in Somerset in 1947. *Entomologist* 82:91-92. Apr. 1949. 421 En8
- 6313 HESLOP, I. R. P. *Vanessa cardui* Linn. in south-western Nigeria. *Entomologist* 82:162-163. July 1949. 421 En8
- 6314 HESLOP HARRISON, J. W. A contribution to our knowledge of the Lepidoptera of the Isles of Lewis and Harris. *Entomologist* 82:16-19. Jan. 1949. 421 En8
- 6315 HESLOP HARRISON, J. W. Further observations on the Lepidoptera of the Scottish Western Isles. *Entomologist* 82:265-268. Dec. 1949. 421 En8
- 6316 HESLOP HARRISON, J. W. The recurrence of *Zygaena lonicerae* Esp. in Durham. *Entomologist* 82:139-140. June 1949. 421 En8



- 6317 HESLOP HARRISON, J. W. The status of *Argynnis aglaja* L. in Northumberland and Durham. *Entomologist* 82:91. Apr. 1949. 421 En8
- 6318 HOFMASTER, R. N. The fall armyworm [*Laphygma frugiperda*]. *Va. Agr. Col. Ext. Veg. Growers News* 5(2):3-4. Aug. 1, 1950. 275.88 V52
- 6319 HOLDAWAY, F. G. Recommended insecticides and promising new materials for corn borer [*Pyrausta nubilalis*] control. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:50-51. 1950. 422.12 N81
- 6320 HOWE, W. L. Biology and host relationships of the squash vine borer [*Melittia curcubitae*]. *J. Econ. Ent.* 43:480-483. Ref. Aug. 1950. 421 J822
- 6321 HOWE, W. L. Reactions of the squash vine borer [*Melittia curcubitae*] to certain insecticidal soil treatments. *J. Econ. Ent.* 43:549-550. Aug. 1950. 421 J822
- 6322 HUGGINS, H. C. Two new varieties of *Peronea cristana*. *Entomologist* 82:156. July 1949. 421 En8
- 6323 HYDE, G. E. A rare British moth [*Catocala fraxini*]. *Country Life* [London] 108:1215. Oct. 13, 1950. 80 C83
- 6324 ILJIMA, K. The influence of high temperature on the reproductive faculty of gray moth borer [*Eucosma schistaceana*] of sugar cane. V. On the effective temperature causing the decrease of the reproductive faculty of moth. (In Japanese.) *Oyo-Kontyu* 5:149-153. Mar. 1950. 421 Oy6
- English summary.
- 6325 JENKINS, L. Experimental work and observations on the control of red-banded leaf rollers [*Argyrotaenia velutinana*] on apples. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:61. 1950. 422.12 N81
- 6326 JUDD, W. W. An assemblage of monarch butterflies (*Danaus plexippus* L.) on the north shore of Lake Erie. *N. Y. Ent. Soc. J.* 58:169-171. Sept. 1950. 420 N48J
- 6327 JUNGFLEISCH, M. Le ver de la feuille [*Prodenia* sp.] - le ver rose [*Pectinophora gossypiella*]. *Égypte Agr.* 48:59-64. (Concl.) May/June 1950. 24 Un32
- On Egyptian cotton.
- 6328 KEMPE, J. E. Paucity of butterflies in 1948. *Entomologist* 82:70-71. Mar. 1949. 421 En8
- Great Britain.
- 6329 KHALIFA, A. Spermatophore production in *Galleria mellonella* L. (Lepidoptera). *Roy. Ent. Soc. London, Proc. Ser. A. Gen. Ent.* 25:33-42. Ref. June 15, 1950. 420 L84Pa
- 6330 KIRBY, O. B. Butterflies migrate, too. *Canad. Countryman* 39(12):11,35. June 10, 1950. 7 C833
- 6331 KIRIAKOFF, S. G. Recherches sur les organes tympaniques des Lépidoptères en rapport avec la classification. III. Diptéroïdes. *Soc. Ent. de Belg. B. & Ann.* 86:67-86. May 6, 1950. 420 B41
- Includes new genus, *Euforbesia*.
- 6332 KLOSTERMEYER, E. C. Effect of soil fertility on corn earworm [*Heliothis armigera*] damage. *J. Econ. Ent.* 43:427-429. Ref. Aug. 1950. 421 J822
- 6333 KOYAMA, T. On the feeding habits of the paddy borer [*Schoenobius incertellus*] larvae, especially on the boring manner of the newly hatched larvae into the rice plants. (In Japanese.) *Oyo-Kontyu* 5:177-186. Mar. 1950. 421 Oy6
- English summary.
- 6334 KOZHANCHIKOV, I. V. On conditions causing *Barathra brassicae* to change host plants. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:385-387. July 11, 1950. 511 P444A
- 6335 KULASH, W. M. Further tests for earworm [*Heliothis armigera*] control in sweet corn. *J. Econ. Ent.* 43:430-432. Aug. 1950. 421 J822
- 6336 LAAN, P. A. VAN DER. Control of tobacco stem borer [*Gnorimoschema heliopa* Low.] with derris. (In Dutch.) *Bergcultures* 19:235, 237, 239, 241, 252. July 1, 1950. 22.5 B45
- English summary.
- Also in *Landbouw* [Bogor] 22:258-266. May/June 1950. 22.5 L23
- 6337 LAGERMALM, G., PHILIP, B., and GRALEN, N. Occurrence of a network in the excrement from the larva of the clothes moth [*Tineola bisselliella*]. *Nature* [London] 166:484-485. Sept. 16, 1950. 472 N21
- 6338 LEMPKE, B. J. Migratory butterflies in 1949 (tenth annual report). (In Dutch.) *Ent. Ber.* 13:129-134. (To be cont.) Sept. 1, 1950. 420 N38B
- 6339 LEMPKE, B. J. The Ortholitha problem (Lep. Geometridae). *Entomologist* 82:1-7. Jan. 1949. 421 En8
- 6340 LILLY, J. H. Control of cutworms in Iowa. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:21. 1950. 422.12 N81
- 6341 LILLY, J. H. The place of field sanitation in European corn borer [*Pyrausta nubilalis*] control. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:46-47. 1950. 422.12 N81
- 6342 LLOYD, N. C. Hilling to control potato moth [*Gnorimoschema operculella*]. *Agr. Gaz. N. S. Wales* 61:409-414. Aug. 1, 1950. 23 N472
- 6343 MCELVARE, R. R. A new *Grotella* from south-west Texas (Lepidoptera, Phalaenidae). *Brooklyn Ent. Soc. B.* 45:117-118. Oct. 1950. 420 B79
- 6344 MARSH, J. C. S. Butterflies of the Hamburg-Lüneburg-Soltau district of Germany. *Entomologist* 82:223-228. Oct. 1949. 421 En8
- 6345 MICHELbacher, A. E., and MIDDLEKAUFF, W. W. Codling moth [*Carpocapsa pomonella*] control on Payne walnuts. *West. Fruit Grower* 4(8):9-10. Aug. 1950. 95.8 G762
- 6346 MONCRIEFF, R. W. Mothproofing. London, Hill, 1950. 200 p. 430 M742
- 6347 MORLEY, A. M. *Colias alfaccariensis* (Berger's clouded yellow) at Folkestone. *Entomologist* 82:71-72. Mar. 1949. 421 En8
- 6348 MUNROE, E. Some remarks on the orithya group of the genus *Junonia* (Lep., Nymphalidae). *Entomologist* 82:157-158. July 1949. 421 En8
- 6349 MUNROE, E. G. The dina group of the genus *Eurema* in the West Indies (Lepidoptera, Pieridae). *N. Y. Ent. Soc. J.* 58:172-191. Ref. Sept. 1950. 420 N48J
- 6350 NEISWANDER, C. R., and HIBBS, E. T. Relation between time of planting and corn borer [*Pyrausta nubilalis*] abundance. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:46. 1950. 422.12 N81
- 6351 NEISWANDER, R. B. The tomato pinworm [*Keiferia lycopersicella*]. *Ohio. Agr. Expt. Sta. Res. B.* 702, 15 p. June 1950. 100 Oh35
- 6352 NEPVEU, P. La noctuelle du sorgho dans le Sud-Est (Sesamia cretica Led); biologie et moyens de lutte. France. Min. de l'Agr. B. Tech. d'Inform. 51:487-490. July/Aug. 1950. 14 F844B
- 6353 NEWMAN, L. H. Butterflies and moths; some questions and answers. *Nat. Lover* 7:347-350. Aug. 1950. 410 N218
- 6354 NEWMAN, L. H. Spring *Colias hyale* in Kent. *Entomologist* 82:44-45. Feb. 1949. 421 En8
- 6355 NICKELS, C. B., PIERCE, W. C., and PINKNEY, C. C. Parasites of the pecan nut casebearer [*Acrobasis caryae*] in Texas. *U. S. D. A. Tech. B.* 1011, 21 p. Aug. 1950. 1 Ag84Te
- 6356 NÜESCH, H. Ueber die Beziehungen zwischen nerven und tracheen im schmetterlingsflügel. *Rev. Suisse de Zool.* 57:511-517. July 1950. 410 R324
- Observations on *Fumea casta*.
- 6357 OWEN, D. F. The Macrolepidoptera of the Moorgate, London, bombed sites. *Entomologist* 82:59-62. Mar. 1949. 421 En8
- 6358 OWEN, J. E. The *Rhopalocera* of the Darent Valley between Shoreham and Eynsford, Kent. *Ent. Rec. & J. Variation* 62:73-75. Sept. 1950. 421 En89
- 6359 PACLT, J. On the gender of the trivial names of two British butterflies. *Entomologist* 82:275-276. Dec. 1949. 421 En8
- In *Colias* and *Ochlodes*.  
With note by A. C. Townsend.
- 6360 PARDI, L. On the first stages in the development of the fertilized egg of the tetraploid parthenogenetic female of *Solenobia triguirella* F. R. (Lepidopt.-Psychidae). Preliminary note. (In Italian.) *Caryologia* 2:365-369. 1950. 442.8 C25
- 6361 PASEK, J. P. V. A contribution on the question of the sexual index among caterpillars of the genus *Lymantia*. (In Czech.) *Lesnická Práce* 29:80-85. 1950. 99.8 L56
- English summary.
- 6362 PETTY, H. B., BISHOPP, F. C., and PARKS, T. H. Where do we stand on residues following the use of insecticides to control corn borer [*Pyrausta nubilalis*]; forage crops insects, etc.? (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:27. 1950. 422.12 N81



- 6363 **PIEPHO, H.** Über die hemmung der falterhäutung durch corpora allata. Untersuchungen an der wachsmotte *Galleria mellonella* L. Biol. Zentbl. 69:261-271. 1950. 442.8 B523
- 6364 **QUERCI, O.** An attempt to explain the development of *Pieris rapae* at Philadelphia during the year 1932. Ent. Rec. & J. Variation 62:77-79. (Cont.) Sept. 1950. 421 En89
- 6365 **REDLINGER, L. M.** A winter survival study of the Angoumois grain moth [*Sitotroga cerealella*] for Kansas. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:53. 1950. 422.12 N81
- 6366 **RICHARDSON, A.** *Crymodes exilis* ssp. assimilis and other Scottish moths. Entomologist 82:79-82. Apr. 1949. 421 En8
- 6367 **RICHARDSON, C. H., and DU CHANOIS, F. R.** Codling moth [*Carpocapsa pomonella*] infestation of the tops of apple trees. J. Econ. Ent. 43:466-470. Ref. Aug. 1950. 421 J822
- 6368 **ROBINSON, D. W.** Description, life history and habits of the western grape skeletonizer, *Harrisina brillians* B. & McD. Calif. Dept. Agr. B. 39:149-151. July/Sept. 1950. 2 C12M
- 6369 **ROUGEOT, P. C.** Description des stades post-embryonnaires de quelques Saturnioides gabonais. Soc. Linn. de Lyon, B. Mens. 18:208-217. Dec. 1949. 505 L992B
- 6370 **RUSSWURM, A. D. A.** Life histories of our butterflies. 10. Nat. Lover 7:323-330. Aug. 1950. 410 N218
- Hamearis lucina*; Lycaenidae: *Thecla* spp., *Strymon* spp., and *Callophrys* rubi.
- 6371 **SCOTT, L. B.** Hornworm [*Protoparce sexta*] control. (Abs.) Tobacco Insect Conf. Proc. 10:9-10. July 27, 1950. 423.9 T55
- 6372 **SEILER, J.** L'intersexualité chez les Lépidoptères. Cong. Internat. de Zool. Compt. Rend. (1948) 13:155-161. 1949. 410.9 In8
- 6373 **SEVASTOPULO, D. G.** Field notes from East Africa. Entomologist 82:130-133, 205-207. June, Sept. 1949. 421 En8
- Chiefly on Lepidoptera.
- 6374 **SPEER, M.** Observations on the biology of *Perileucoptera* [i.e. *Leucoptera*] *coffeella* (Guérin-Mèneville), (Lepidoptera Bucculatricidae). (In Portuguese.) Inst. Biol. São Paulo. Arq. (1949/50) 19:31-47. 1950. 442.9 Sa6
- English summary.
- 6375 **STANLEY, W.** Laboratory tests with tobacco hornworm [*Protoparce*] *sexta*. (Abs.) Tobacco Insect Conf. Proc. 10:10. July 27, 1950. 423.9 T55
- 6376 **STONE, P. C.** Control of armyworms [*Cirphis unipuncta*], webworms [*Loxostege similalis*], and blister beetles [*Meloidae*] in sporadic outbreaks. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:56-57. 1950. 422.12 N81
- Includes discussion by F. D. Miner, C. F. Stiles, C. J. Weinman, R. E. Hill, G. W. Thomas, and G. E. Gould.
- 6377 **STORACE, L.** Lepidoptera notes. (In Italian.) Soc. Ent. Ital. B. 80:15-16. Mar. 30, 1950. 420 It1
- Charcarodus alceae magnaustalis*; *Reverdinus alchymillae*; *Pyrgus* spp.; *Gegenes pumilio*; *Glaucopteryx melanops*.
- 6378 **STORACE, L.** The spread of *Charaxes jasius* L. in Liguria. (Lepidoptera: Nymphalidae). (In Italian.) Soc. Ent. Ital. B. 79:79-82. Dec. 30, 1949. 420 It1
- 6379 **STROYAN, H. L. G.** Range changes in British butterflies. Entomologist 82:210-211. Sept. 1949. 421 En8
- 6380 **TAYLOR, J. G., and DEAY, H. O.** Electric lamps and traps in corn borer [*Pyrausta nubilalis*] control. Agr. Engin. 31:503-505, 532. Oct. 1950. 58.8 Ag83
- 6381 **TEMPLE, V.** The courtship flight of butterflies as the means of extending the range of certain species. Entomologist 82:145-147. July 1949. 421 En8
- 6382 **TOXOPEUS, L. J.** On the distribution of *Delias crithoë* (Boisd.) in Java. (Lep., Pieridae). Organ. Sci. Res. Indonesia. O. S. R. P. 15:30-44. 1950. 330.9 Or3P
- 6383 **TRAVASSOS, L.** Contribution to a knowledge of the Arctiidae. XXI. On the species with coloring similar to *Idalus admirabilis* (Cramer, 1777). (In Portuguese.) Rev. Bras. de Biol. 10:217-240. July 1950. 442.8 R326
- Includes new combinations in *Idalus* and *Rhipha*.
- 6384 **TURNER, A. H.** Some notes on the flower preferences of the butterflies. Soc. Brit. Ent. J. 3:210-211. Aug. 21, 1950. 420 En85J
- Color preferences.
- 6385 **TURNER, H. J.** The British Noctuae [i.e. *Phalaenidae*] and their varieties. IV. Ent. Rec. & J. Variation 62(7/8, sup.):89-92. July/Aug. 1950. 421 En89
- 6386 **U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE.** Corn earworm (*Heliothis armigera* (Hbn.)). U. S. D. A. Picture Sheet 11, rev., 2 p. 1950. 1 En86P
- 6387 **U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE.** Fall armyworm (*Laphygma frugiperda* (A. and S.)). U. S. D. A. Picture Sheet 12, rev., 2 p. Aug. 1950. 1 En86P
- 6388 **U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE.** Tomato fruitworm (*Heliothis armigera* (Hbn.)). U. S. D. A. Picture Sheet 13, rev., 2 p. June 1950. 1 En86P
- 6389 **VALLETTA, A.** Additions to the list of Lepidoptera Heterocera of the Maltese Islands. Entomologist 82:208-209. Sept. 1949. 421 En8
- 6390 **VANETTI, F.** Methods of controlling "tomato borer" (*Leucinodes elegantalis* Guén., *Pyralidae*, *Lepidoptera*). (In Portuguese.) Rev. Ceres 8:282-285. Jan./June 1950. 9.2 C332
- 6391 **VILARRUBIA GARET, A.** La polilla de la cera (*Galleria mellonella* L.). II. Cóm. Ofic. Sind. Agr. de Barcelona. B. 5:191-192. July 1950. 15 C14
- 6392 **WAKELY, S.** *Eupithecia millefoliata* Roessler in Britain: additional record. Entomologist 82:139. June 1949. 421 En8
- 6393 **WARREN, B. C. S.** A note on the central European races of *Papilio machaon* and their nomenclature. Entomologist 82:150-153. July 1949. 421 En8
- 6394 **WARREN, B. C. S.** Three hitherto unrecognized European species of *Erebia* (Lepidoptera: *Satyridae*). Entomologist 82:97-104. May 1949. 421 En8
- 6395 **WAY, M. J.** The structure and development of the larval cuticle of *Diatraea oleracea* (Lepidoptera). Q. J. Micros. Sci. 91:145-182. Ref. June 1950. 440.8 Q2
- 6396 **WEDDELL, B. W.** *Laspeyresia pallifrontana* Zell. (Lep. Tortricina) in Wiltshire. Soc. Brit. Ent. J. 3:212. Aug. 21, 1950. 420 En85J
- 6397 **WHIPP, A. A.** Control of the variegated cutworm [*Peridroma margaritosa*] on red beets. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:21. 1950. 422.12 N81
- 6398 **WILBUR, D. A.** Angoumois grain moth [*Sitotroga cerealella*] attacking corn in Kansas. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:53. 1950. 422.12 N81
- 6399 **WILBUR, D. A., BRYSON, H. R., and PAINTER, R. H.** Southwestern corn borer [*Diatraea grandiosella*] in Kansas. Kans. Agr. Expt. Sta. B. 339, 46 p. Ref. May 1950. 100 K133
- Revision of Bulletin 317.
- 6400 **WILSON, B. R.** Angoumois grain moth [*Sitotroga cerealella*] in Illinois. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:53. 1950. 422.12 N81
- 6401 **WRIGHT, J. M.** Corn earworm [*Heliothis armigera*] control with insecticides. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:20-21. 1950. 422.12 N81
- 6402 **YOUNG, E. P.** *Argynnis lathonia* in 1945. Entomologist 82:87-88. Apr. 1949. 421 En8
- 6403 **ZWET, A. J. VAN.** A practical method of controlling caterpillars in cinchona plantings. (In Dutch.) Bergcultures 19:331. Sept. 1, 1950. 22.5 B45
- Boarmia crepuscularia*, *Euproctis flexuosa*, *Metanastria hyrtaca*, *Cricula trifenestrata*; in Indonesia.
- See also Sericulture and the Silkworm.

## ORTHOPTERA

- 6404 **ABRAHAMSON, P. E. R.** It pays to kill grasshoppers early. Gleaner 4(6):5. June 1950. 6 G472
- 6405 **BOISSON, C.** Mode de sécrétion des corpora incerta de *Bacillus rossii* (Fabr.). Soc. de Biol. Compt. Rend. 144:784-786. June 1950. 442.9 P21
- 6406 **BRETT, C. H.** Residual characteristics of the different insecticides for grasshopper control. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:55. 1950. 422.12 N81



- 6407 BROWN, E. S. Notes on the taxonomy, British distribution and ecology of *Tetrix subulata* (L.) and *T. ceperoi* I. Bolivar (Orthopt., Tetrigidae). Soc. Brit. Ent. J. 3:189-200. Ref. Aug. 21, 1950. 420 En85J
- 6408 COMITE INTERNACIONAL DE COORDINACIÓN PARA EL COMBATE DE LA LANGOSTA MÉXICO Y CENTRO AMÉRICA. Boletín informativo. 3,50 p; 7, 52 p. Managua, 1950. 429 C73Z
- 6409 DAY, M. F. The histology of a very large insect, *Macropanesthia rhinoceros* Sauss. (Blattidae). Austral. J. Sci. Res. Ser. B: Biol. Sci. 3:61-75. Ref. Feb. 1950. 442.8 Au72
- 6410 DECKER, G. C. Grasshopper control with some of the newer insecticides. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:55. 1950. 422.12 N81
- 6411 DIRSH, V. M. A practical table for the determination of sexes of nymphs of *Locusta migratoria migratorioides* (R. & F.) (Orthoptera: Acrididae). Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:136-138. Oct. 16, 1950. 420 L84Pb
- 6412 DIRSH, V. M. Two new African injurious grasshoppers. B. Ent. Res. 41:317-320. Sept. 1950. 421 B87
- In *Eyprepocnemis* and *Catantops*.
- 6413 FERNANDO, W. *Tridactylus ceylonicus*, sp. nov. (Insecta, Orthoptera, Tridactyloidea). Ceylon J. Sci. Sect. B: Zool. 24:47-48. May 12, 1950. 410 C33
- 6414 FISZER, J. Action de l'ion Mg sur l'automatisme du vaisseau dorsal de *Gryllus domesticus* L. [i.e. *Acheta domestica*]. Soc. de Biol. Compt. Rend. 144: 812-814. June 1950. 442.9 P21
- 6415 FISZER, J. Actions antagonistes du magnésium et des ions alcalins sur l'automatisme du vaisseau dorsal de *Gryllus domesticus* L. [i.e. *Acheta domestica*]. Soc. de Biol. Compt. Rend. 144:815-817. June 1950. 442.9 P21
- 6416 GUPTA, P. D. On the structure, development and homology of the female reproductive organs in orthopteroid insects. Indian J. Ent. 10:75-123. Ref. June 1948, pub. June 1950. 420 In23
- Observations on various cockroaches, crickets, and locusts.
- 6417 GUTHRIE, F. E. Effect of temperature on toxicity of certain organic insecticides. J. Econ. Ent. 43: 559-560. Ref. Aug. 1950. 421 J822
- Tests with *Blattella germanica*.
- 6418 KARABAG, T. Five new species of *Poecilimon* Fischer (Orthoptera: Tettigonidae) from Turkey. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:150-155. Oct. 16, 1950. 420 L84Pb
- 6419 KELLER, H. Die kultur der intrazellulären symbionten von *Periplaneta* [i.e. *Blatta*] orientalis. Z. f. Naturf. 5b:269-273. Ref. July/Aug. 1950. 474 Z3
- 6420 KELSHEIMER, E. G. Control of mole-crickets. Fla. Agr. Expt. Sta. C. S-15, 7 p. June 1950. 100 F66C1
- Species in Florida are *Gryllotalpa hexadactyla*, *Scapteriscus abbreviatus*, *S. acletus*, and *S. vicinus*, of which the last two are of economic importance.
- 6421 KHALIFA, A. Spermatophore production in *Blattella germanica* L. (Orthoptera: Blattidae). Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent. 25:53-61. Ref. June 15, 1950. 420 L84Pa
- 6422 KING, R. L. Neo-Y chromosome in *Hypochlora alba* and *Mermiria intertexta* (Orthoptera: Acrididae). J. Morph. 87:227-237. Ref. Sept. 1950. 444.8 J826
- 6423 LIEBERMANN, J. Los acridios de la zona subandina de Neuquen, Rio Negro y Chubut (Orthop., Acrid.). Mus. Argentino de Cien. Nat. "Bernardino Rivadavia." Rev. Cien. Zool. 1:127-160. Ref. 1949. 410.9 B862
- 6424 LIEBERMANN, J. Un enemigo de los cultivos de tabaco en Corrientes: el grillotopo (*Scapteriscus didactylus* [Latreille]). Argentina. Min. de Agr. Almanaque 25:373-376. 1950. 9 Ag874
- 6425 LIEBERMANN, J. Sobre una colección de acridoideos neotropicales del Dr. Richard Ebner, con la descripción del alotipo de "*Diponthus bilineatus*," Rehn (Orthoptera, Acridoidea). Rev. Bras. de Biol. 10:133-139. Ref. May 1950. 442.8 R326
- 6426 MORALES, C. Lucha implacable contra la tucura. Pampa Argentina 23(273):12. Aug. 1950. 9 P19
- Dichroplus maculipennis*, *D. elegantus*, and *Scyllina variabilis*.
- 6427 MOSCONA, A. Studies of the egg of *Bacillus libanicus* (Orthoptera, Phasmidae). I-II. Q. J. Microsc. Sci. 91:183-203. Ref. June 1950. 440.8 Q2
- I, The egg envelopes, p. 183-193; II, Moisture, dry material, and minerals in the developing egg, p. 195-203.
- 6428 OKAY, S. Sur les pigments des ailes rouges, bleues et jaunes des acridiens. Cong. Internatl. de Zool. Compt. Rend. (1948)13:82. 1949. 410.9 In8
- 6429 PARKER, J. R. Grasshopper control with some of the newer insecticides. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:54. 1950. 422.12 N81
- 6430 PIZA JUNIOR, S. DE T. First observations on the cytology of Brazilian phasmids. (In Portuguese.) Sci. Genet. 3:227-235. May 1950. 442.8 Sci2
- English summary.
- Study of spermatogenesis in *Phibalosoma phyllinum* and *Acanthoderus inermis*.
- 6431 PIZA JUNIOR, S. DE T. A new Orthopteron, *Phaneropteridae*, of Brazil. *Dysonia carlosmendesii* sp. n. (In Portuguese.) Rev. de Agr. [Piracicaba] 25:259-261. July/Aug. 1950. 9.2 R324
- Description in Latin.
- 6432 POPOV, G. Note on the genus *Bibulus* I. Bolivar, 1914 (Orthoptera: Acrididae). Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:133-135. Oct. 16, 1950. 420 L84Pb
- 6433 ROBERTIS, A. DE. Locust control. Experimental findings on the use of hexachlorocyclohexane and technico-economical comparison of three diverse methods of employment. (In Italian.) Ann. della Sper. Agr. (n.s.) 4:869-890. 1950. 16 An76
- English summary.
- 6434 ROTHELS, K. H. Chromosome complement, polyploidy and supernumeraries in *Neopodismopsis abdominalis* (Acrididae). J. Morph. 87:227-237. Ref. Sept. 1950. 444.8 J826
- 6435 SAWYER, K. F. Aerial curtain spraying for locust control: a theoretical treatment of some of the factors involved. B. Ent. Res. 41:439-457. Sept. 1950. 421 B87
- 6436 SLIFER, E. H. A microscopical study of the hydropyle and hydropyle cells in the developing egg of the grasshopper, *Melanoplus differentialis*. J. Morph. 87: 239-273. Ref. Sept. 1950. 444.8 J826
- 6437 STIERLIN, A. Heuschrecken. Grüne 78:932-934. Aug. 25, 1950. 17 Sch9
- Switzerland.
- 6438 TROUILLO, L. Détruisez les courtillières [Gryllotalpa]. Prog. Agr. et Vitic. 1950:136-137. Aug. 20/27, 1950. 14 P94
- 6439 VALLE, R. G. DEL. The red locust [*Nomadacris septemfasciata*]. (In Portuguese.) Gaz. do Agr. 2: 150-155. July 1950. 24 G25
- 6440 WAKELAND, C. Chlorinated hydrocarbons in baits for range grasshopper control. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:54-55. 1950. 422.12 N81
- 6441 YAMASAKI, T., and ISHII, T. Studies on the acting mechanism of insecticides. I. The actions of some sympatho- and parasymphathomimetic drugs and insecticides on the heart of insect. (In Japanese.) Oyo-Kontyu 5:155-168. Ref. Mar. 1950. 421 Oy6
- English summary.
- Study of effects of acetylcholine, eserine (physostigmine), atropine, adrenaline, DDT, and benzene hexachloride on exposed heart of *Locusta migratoria danica*.

#### SERICULTURE AND THE SILKWORM

- 6442 BOUNHIOL, J. J. Essai de localisation d'un centre de métamorphose imaginaire chez *Bombyx mori* L. Cong. Internatl. de Zool. Compt. Rend. (1948)13:470-471. 1949. 410.9 In8
- 6443 DUSPIVA, F. Die enzymatischen vorgänge beim durchbruch des ausschließenden seiden spinners (*Bombyx mori* L.) durch die kokonwand. Z. f. Naturf. 5b: 273-281. Ref. July/Aug. 1950. 474 Z3
- 6444 GILLIEAUX, P. La sericulture au Congo Belge (Ituri). Textielwezen 6(9):72-73, 75, 77, 79-81, 83, 85, 87. Sept. 1950. 304.8 T3147



6445 JELMONI, E. The sericulture crisis from a century ago to today. (In Italian.) Econ. della Marca Trevigiana 37(35):1-2. (To be cont.) Sept. 9, 1950. 280.8 Ec733

6446 LEVADA, A. Radical changes in sericulture. (In Italian.) Agr. Venez. 5(14):1. Aug. 1/15, 1950. 16 Ag8264

6447 LITVIN, G. For further consolidation of the raw material base of the silk industry. (In Russian.) Tekstil'. Promysh. 10(7):14-15. July 1950. 304.8 T23  
Chiefly on Bombyx mori cocoons production.

6448 PLAZA, M. La sericultura y la sección femenina. Siembra [Madrid] 6(7):14-16. July 1950. 15 S11  
Spain.

6449 TSINTSEVICH, E. P., and BOTVINIK, M. M. Amino acid composition of the fibroin of Bombyx mori and Antheraea pernyi raw silk. (In Russian.) Zhur. Prikl. Khim. 23:750-753. Ref. July 1950. 385 Z64

6450 UMEYA, Y., and OMURA, S. Studies on the sterility in the silkworm. I. On the abnormal spermatophore. (In Japanese.) Japan. Sericult. Expt. Sta. B. 13: 63-78. Apr. 1950. 425.9 J273B  
English summary.

### SMALLER ORDERS

6451 ADAMS, P. A. Notes on Ollarces clara Banks (Neuroptera, Ithonidae). Pan-Pacific Ent. 26:137-138. July 1950. 421 P193

6452 AHMAD, M. The termite problem in Pakistan. (Abs.) Co-op. & Mktg. Rev. 4:253. July 1950. 280.28 C78243

6453 ANSARI, M. A. R. Some observations on avicolous Mallophaga. Indian J. Ent. 10:125-127. June 1948, pub. June 1950. 420 In23

6454 ATTLEE, H. G. Dragonflies in 1947. Entomologist 82:20-21. Jan. 1949. 421 En8  
Great Britain.

6455 AUBERT, J. Les Plécoptères de la Suisse romande. Cong. Internat. de Zool. Compt. Rend. (1948) 13:468. 1949. 410.9 In8

6456 AUBERT, J. La répartition des Plécoptères dans le monde. Cong. Internat. de Zool. Compt. Rend. (1948) 13:468-469. 1949. 410.9 In8

6457 BALINSKY, B. I. On the Plecoptera of the Caucasus. Roy. Ent. Soc. London, Trans. 101:59-87. July 25, 1950. 420 L84

Includes new species and forms in Filchneria, Isoperla, Chloroperla, Leuctra, Protonemura, and Nemoura.

6458 BANKS, N. A new species of Limnephilidae from Maine (Trichoptera). Psyche 57:72-73. June 1950. 421 P95

In Hydatophylax.

6459 BANKS, N. Notes and descriptions of western Chrysopidae (Neuroptera). Psyche 57:45-67. June 1950. 421 P95

Includes new species in Meleoma, Chrysopa, and Eremochrysa; also Lolochoysa, new subgenus in Eremochrysa.

6460 BEHURA, B. K. Note on the common European earwig, Forficula auricularia Linn. (Dermaptera) as food of the little owl, Athene noctua vidalii Brehm. Ann. & Mag. Nat. Hist. (ser. 12) 3:775-776. Sept. 1950. 410 An77

6461 BEQUAERT, J. The C. Andersen Hubbard collection of fleas of the Pacific Northwest. Psyche 57: 44. June 1950. 421 P95

6462 BERNER, L. The mayflies of Florida. Fla. U. Studies. Biol. Sci. Ser. 4(4), 267 p. Ref. 1950. 442.9 F66

6463 BONET, F. Descripción preliminar de especies nuevas del genero Eosentomon (Protura). I. El grupo del E. mexicanum. Soc. Mex. de Hist. Nat. Rev. 10:225-234. Dec. 1949. 516 S015  
English summary.

6464 CARRIKER, M. A., JR. Studies in Neotropical Mallophaga. VIII. "Ischnocera" of the American "Psittacidae", part 2. Genus "Paragoniocotes" Cummings. Rev. Bras. de Biol. 10:1-21. May 1950. 442.8 R326

6465 CARVALHO, E. L. DE. Contribuição para o conhecimento dos Strepsipteros de Portugal [Contribution to a knowledge of the Strepsiptera of Portugal]. Coimbra U., Mus. Zool. Mem. e Estud. 197, 8 p. Ref. 1950. 410.9 C66  
French summary.

6466 CHAMPLAIN, A. B. The hellgramite or dobs. Pa. Angler 19(9):10. Sept. 1950. 410 P382  
Larvae of Corydalis cornutus as fish bait.

6467 CONCI, C. Agrion mercuriale castellanii Roberts in Italy. (Odonata: Agrionidae). (In Italian.) Soc. Ent. Ital. B. 79:62-64. Nov. 10, 1949. 420 It1

6468 CONDE, B. Un Protoure inédit du Pays Basque et du Portugal. Coimbra U., Mus. Zool. Mem. e Estud. 198, 6 p. 1950. 410.9 C66  
New species in Acerentulus.

6469 CONSIGLIO, C. Capture of Gomphus flavipes Charp. at Rome. (Odonata). (In Italian.) Soc. Ent. Ital. B. 80:16. Mar. 30, 1950. 420 It1

6470 DAWSON, T. R., and DOYLE, L. A. Protection of vulcanised rubber against white ants. Res. Assoc. Brit. Rubber Mfr. J. Rubber Res. 19:101-105. Ref. Sept. 1950. 305.9 R31

6471 DE MEILLON, B. New South African Siphonaptera. Entomologist 82:241-244. Nov. 1949. 421 En8  
New species in Leptopsylla, Listropsylla, and Xenopsylla; also Cryptopsylla n. g.

6472 DENNING, D. G. Records and descriptions of nearctic caddis flies. I. Brooklyn Ent. Soc. B. 45:97-104. Oct. 1950. 420 B79

Includes new species in Wormaldia, Nyctiophylax, Polycentropus, and Chimarra.

6473 DENNING, D. G. Records and descriptions of Nearctic caddis flies. II. Kans. Ent. Soc. J. 23:115-120. Oct. 1950. 420 K13

New species in Rhyacophila, Agapetus, and Tinodes.

6474 ECKE, D. H., and JOHNSON, C. W. Sylvatic plague in Park County, Colorado. No. Amer. Wildlife Conf. Trans. 15:191-197. 1950. 412.9 N814

Includes discussion.

Epizootic among prairie-dogs, transmitted by fleas, Opisocrostitis tuberculatus cynomuris, O. t. tuberculatus, and O. labis.

6475 EDWARDS, G. A., and NUTTING, W. L. The influence of temperature upon the respiration and heart activity of Thermobia [domestica] and Grylloblatta [campodeiformis]. Psyche 57:33-44. Ref. June 1950. 421 P95

6476 EICHLER, W. Über die endoparasitische lebensweise der kormoran-federlinge [Plagiatiella spp.]. Riv. di Parassitol. 11:103-108. June 1950. 436.8 R52  
English summary.

6477 EMERSON, K. C. New species in Goniodes. Kans. Ent. Soc. J. 23:120-126. Oct. 1950. 420 K13

6478 FERNANDO, H. E. The anatomy and histology of the alimentary canal of a myrmeleonid larva. Ceylon J. Sci. Sect. B: Zool. 24:27-45. Ref. May 12, 1950. 410 C33

6479 FONSECA, J. P. DA. On the chemical control of underground termites. (In Portuguese.) Inst. Biol. São Paulo. Arq. (1949/50) 19:57-84. 1950. 442.9 Sa6  
English summary.

Syntermes spp. causing damage to Eucalyptus.

6480 FORTIN, B. Les poux de corps. Foyer Rur. [Montreal] 9(12):20. Sept. 1950. 7 F83  
Pediculus humanus corporis and Phthirus pubis.

6481 FRASER, F. C. The Odonata of Mauritius, suborder Anisoptera, and the description of a new species of Zygoptera. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19:70-77. June 15, 1950. 420 L84Pb  
New species in Coenagriocnemis.

6482 GEIGY, R. L'hypertrophie parasitaire de la femelle de Tungia penetrans. Cong. Internat. de Zool. Compt. Rend. (1948) 13:495. 1949. 410.9 In8

6483 GRANDI, M. Contributions to the study of the Italian Ephemerida. X-XIII. (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49) 17:62-82, 275-300. 1950. 420 B63

X, Baetis atrebatinus Eaton, p. 62-75; XI, Baetis grandii n. sp. and B. venustus Eaton, p. 76-82; XII, Baetis pumilus Burm., p. 275-286; XIII, Baetis parva n. sp. and Baetis principii n. sp., p. 287-300.

6484 GRANDI, M. Contributions to the study of the Plécoptera. I. Data on the morphology and thoracic musculature of Perla marginata Panz. (In Italian.) Bologna. U. Ist. di Ent. B. (1948-49) 17:130-157. 1950. 420 B63

6485 GRASSE, P. P., and HOLLANDE, A. Recherches sur les Flagellés termiticoles; les sous-familles des Devescovininae Kirby et des Macrotrichomonadinae nov. Ann. des Sci. Nat. Zool. et Biol. Anim. (ser. 11) 12: 25-64. 1950. 410 An7



- 6486 GURAL, S. Insecticidal properties of *Padus racemosa* branches. (In Russian.) *Veterinariia* 27(7):39. July 1950. 41.8 V642E  
In lice control on cattle.
- 6487 HACK, W. H. Nota sobre un colémbolo de la Antártida Argentina, *Achorutes viaticus* Tullberg. La Plata. Mus. Notas Zool. 14:211-212. 1949. 410 L31
- 6488 HAGERUP, O. Thrips pollination in Calluna. *Danske Vidensk. Selsk. Biol. Meddel.* 18(4), 16 p. 1950. 442.9 D23
- 6489 HICKIN, N. E. Larvae of the British Trichoptera. 28-29. Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent. 25:67-74. Ref. Sept. 15, 1950. 420 L84Pa  
28, *Tinodes waeneri* L.; 29, *Lype reducta* Hagen.
- 6490 HINTON, H. E. A trichopterous larva with a chelate front leg. Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent. 25:62-65. June 15, 1950. 420 L84Pa  
Atopsyche sp. (a rhyacophilid from Bolivia).
- 6491 HOON, R. C., and TALWAR, K. N. The incidence of white ants (termites) in the region of the Hirakud Dam Project. India. Cent. Bd. Irrig. J. 7:179-186. Mar. 1950. 55.9 In222C
- 6492 HOPKINS, G. H. E. A new South African *Xenopsylla* (Siphonaptera, Pulicidae). *Entomologist* 82: 251-253. Nov. 1949. 421 En8
- 6493 HOPKINS, G. H. E. Notes on fleas. *Entomologist* 82:134-138. June 1949. 421 En8  
The type-locality of *Hoplopsyllus glacialis glacialis*; The identities of some bat fleas; The names *Tunga* and *Dermatophilus* in Siphonaptera.
- 6494 JORDAN, H. E. K. On some Palaearctic species of *Xenopsylla* (Suctoria—Siphonaptera). *Entomologist* 82:111-115. May 1949. 421 En8
- 6495 JORDAN, K. Notes on a collection of fleas from Peru. *World Health Organ. B.* 2:597-609. 1950. 449.9 W892B  
New species in *Hoplopsyllus*, *Polygenis*, and *Hormopsylla*.
- 6496 KIMMINS, D. E. The identity of *Stactobia fuscicornis* (Schneider) (Trichoptera, Hydroptilidae). *Entomologist* 82:229-233. Oct. 1949. 421 En8  
Includes new species in *Stactobia*.
- 6497 KIMMINS, D. E. Some changes in generic names in the family Leptoceridae (order Trichoptera). *Entomologist* 82:201-204. Sept. 1949. 421 En8  
*Leptocerus*; *Athripsodes*; *Setodes*; *Oecetis*.
- 6498 KIMMINS, D. E. *Tinodes pallidula* McLachlan: an addition to the British list of Trichoptera. *Entomologist* 82:269-272. Dec. 1949. 421 En8  
Includes note on *Trienodes simulans*.
- 6499 KIMMINS, D. E. The types of certain species of Trichoptera described by Robert McLachlan. *Entomologist* 82:33-37. Feb. 1949. 421 En8
- 6500 KIRBY, H. Systematic differentiation and evolution of flagellates in termites. *Soc. Mex. de Hist. Nat. Rev.* 10:57-79. Ref. Dec. 1949. 516 S015
- 6501 LIEFTINCK, M. A. Additions to the odonate fauna of South East Asia, with descriptions of two new genera and three new species. *Treubia* 20:631-645. July 1950. 410 T72  
New species in *Pachychphya* n.g., *Tapeinothemis* n.g., and *Phyllothemis*.
- 6502 LIEFTINCK, M. A. Further studies on south-east Asiatic species of *Macromia* Rambur, with notes on their ecology, habits and life history, and with descriptions of larvae and two new species (Odon., Epophthalmiinae). *Treubia* 20:657-716. July 1950. 410 T72
- 6503 MACNEILL, N. The nymph of *Enallagma cyathigerum* (Charpentier) described with comparative references to *Ischnura elegans* (Lind.), *Coenagrion puella* (L.) and *C. pulchellum* (Lind.) (Odon., Coenagrionidae). *Ent. Mon. Mag.* 86:234-242. Aug. 1950. 421 En86
- 6504 MACNEILL, N. Odonata—Irish distribution. *Irish Nat. J.* 10:76. July 1950. 410 Ir42
- 6505 PASTEELS, J. Les Strepsiptères. *Soc. Ent. de Belg. B. & Ann.* 86:18-28. Mar. 5, 1950. 420 B41
- 6506 PERRY, R. On watching dragonflies [Odonata]. *Field* 196:368-369. Sept. 2, 1950. 10 F45
- 6507 PRINCIPI, M. M. Contributions to the study of the Italian Neuroptera. VII-VIII. (In Italian.) *Bologna. U. Ist. di Ent. B.* 1948-49:17:93-121, 316-362. 1950. 420 B63  
VII, Observations on some parasites of the Chrysopidae [*Chrysopophthorus chrysopimuginis*, *Hemiteles* sp., *Trichogramma evanescens*, *Tetrastichus* sp., *Perilampus laevifrons*, *Helorus* spp., all parasitic on *Chrysopa* spp.]; VIII, Morphology, anatomy and function of the genital apparatus in the genus *Chrysopa* Leach (*Chrysopa septempunctata* Wesm. and *C. formosa* Brauer).
- 6508 PRZESMYCKI, F., WOJCIECHOWSKI, E., and MIKOLAJCZYK, E. The effect of aureomycin on *Rickettsia prowazeki* in the intestines of body lice [*Pediculus humanus corporis*]. *Canad. J. Compar. Med.* 14:325-330. Oct. 1950. 41.8 C162
- 6509 RICHARD, G. L'innervation et les organes sensoriels de la patte du termite a cou jaune (*Calotermes flavicollis* F.). *Ann. des Sci. Nat. Zool. et Biol. Anim.* (ser. 11) 12:65-83. Ref. 1950. 410 An7
- 6510 RIEGEL, G. T. Zoraptera from Georgia. *Ent. News* [Philadelphia] 61:124. Oct. 1950. 421 En88
- 6511 RCSS, H. H. A new Philippine Rhyacophila of unusual interest (Trichoptera, Rhyacophilidae). *Ent. News* [Philadelphia] 61:131-134. Oct. 1950. 421 En88
- 6512 SCHMIDT, H. Mikroorganismen in termiten. *Naturwiss. Rundschau* 3:360-363. Ref. Aug. 1950. 474 N216
- 6513 SHILLINGER, J. E. Fighting disease among fur bearers. *Brit. Fur Trade* 32:369. Sept. 1950. 412.628 B77  
Control of fleas and lice on foxes and minks.
- 6514 SMIT, F. G. A. M. Siphonaptera neerlandica. *Faunae nova species III.* *Ent. Ber.* 13:137-141. Sept. 1, 1950. 420 N38B  
*Tarsopsylla octodecimdentata*.
- 6515 SMITH, C. L. Control of lice and ticks affecting animals. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:15-16. 1950. 422.12 N81
- 6516 STROYAN, H. L. G. A note on the biology of *Eumicromus angulatus* (Stephens). (Neuroptera, Hemerobiidae). *Entomologist* 82:273-274. Dec. 1949. 421 En8
- 6517 TULLOCH, G. S. Abnormality in *Corydalus* (Megaloptera). *Brooklyn Ent. Soc. B.* 45:116. Oct. 1950. 420 B79
- 6518 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. DDT, another soil poison for subterranean termite control. *Washington?* 1950. 2 p. 1.967 F4D33
- 6519 VALLETTA, A. A preliminary list of the Odonata of the Maltese Islands. *Entomologist* 82:85-87. Apr. 1949. 421 En8
- 6520 VENEZUELA. DIRECCIÓN DE AGRICULTURA. DIVISION DE ENTOMOLOGIA Y ZOOLOGIA. El piojito, o trips de la cebolla, *Thrips tabaci* Lind., y su combate, por P. Fenjves. *Caracas*, 1949. 9 p. 431.7 V55
- 6521 VERRIER, M. L. Les tropismes et la répartition des Ephémères. *Cong. Internatl. de Zool. Compt. Rend.* (1948) 13:184-185. 1949. 410.9 In8
- 6522 WILLNER, G. J. Corrodentes de Bolivia. *Mus. Argentino de Cien. Nat. "Bernardino Rivadavia."* *Rev. Cien. Zool.* 1:95-126. 1949. 410.9 B862  
Includes new species in *Epipocus*, *Loneura*, *Euplocania*, *Mesopocus*, *Peripocus*, *Caecilius*, *Graphocaecilius*, and *Lachesilla*.
- 6523 WOLCOTT, G. N. An index to the termite-resistance of woods. P. R. (Rio Piedras) Agr. Expt. Sta. B. 85, 26 p. Sept. 1950. 100 P83

## AGRICULTURAL ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

## GENERAL AND MISCELLANEOUS

- 6524 BAKER, R. H. It's your life. *Ohio Farm & Home Res.* [Ohio Sta.] 35:59. July/Aug. 1950. 100 Oh3S  
Farm accidents.
- 6525 BLAIR, J. F. Farm ponds unlimited. *Pa. Game News* 21(7):61-63. Oct. 1950. 412.9 P38Pe
- 6526 BLOOMFIELD, H. Getting fire fighters to the farm. *Country Gent.* 120(10):23, 88-91. Oct. 1950. 6 C833  
Community organization and adequate equipment.
- 6527 CRADOCK, T. H. A chapter of accidents; warnings of the everyday hazards of field and workshop. *Brit. Farm Mech.* 2:334-336. Sept. 1950. 55.8 B772
- 6528 DICK, R. G. The land surveyor in New Zealand. *Roy. Inst. Chartered Surveyors. J.* 30:356-375. Oct. 1950. 282.9 C38J



6529 DOGGETT, D. How to build small lakes and farm ponds. Outdoor Ind. 17(10):18-19,21,23. Oct.1950. 279.8 Ou82

6530 ERICKSON, T. A. The origin and progress of farm safety education. Farm Safety Rev. 8(6):10-13. Nov./Dec.1950. 449.8 F22

6531 FOBES, E. W. Improved alinement of logging roads reduces hauling costs. U. S. Forest Serv. Forest Prod. Lab. Impr. Harvesting Methods. Equip. Survey Notes. Rpt. R1637-40,4 p. June 1950. 1.9 F761R

6532 FRANCE. MINISTÈRE DE L'AGRICULTURE. DIRECTION GÉNÉRALE DU GÉNIE RURAL ET DE L'HYDRAULIQUE AGRICOLE. Annales; documents législatifs et administratifs, jurisprudence, études juridiques, 1949. Paris,1950. 376 p. 55.9 F84

6533 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Precautions in the use of insecticides, fungicides and weed-killers. Gt. Brit. Min. Agr. & Fisheries Adv. L. 374,4 p. Sept.1950. 10 G79La

6534 HANSON, J. E. 200 farm-planned cattle feeding system. Successful Farming 48(10):36-37,76-77. Oct. 1950. 6 Su12

Layout of an Iowa farm.

6535 HYLE, F. M. Alert members on fire hazards. Grain Prod. News 3(4):7,14. Sept.1950. 286.81 G764

6536 KRUEGER, W. C. Fire pond farmer's best insurance. Moos 11(3):3,12. Oct.1950. 44.8 M78

6537 LANE, J. E. 200 farm buildings burned today. Mich. Farmer 214:229,247. Oct.7,1950. 6 M58

Fire prevention.

6538 MCNALLY, M. Millions of hazards removed; 4-H program strikes at accident causes. Farm Safety Rev. 8(5):6-7. Sept./Oct.1950. 449.8 F22

6539 MARTIN, R. Self help gets good roads for McClain County [Oklahoma] farmers. Farmer-Stockman 53,i.e.63(9):13,34. Sept.1950. 6 Ok45

6540 MIDDLEMISS, E. Revolutionary design for Karoo [South Africa] farmstead; austere fort-like construction planned on patio principle. Farmer's Wk. [Bloemfontein] 79:13. Aug.23,1950. 24 F225

6541 NELSON, A. W. High pressure fog blankets rural fires; fog has advantages where water supply is limited. Farm Safety Rev. 8(5):5. Sept./Oct.1950. 449.8 F22

6542 PALMER, A. B. Self-inspection plan for stock yards; program aids maintenance and housekeeping, protects yard property from fire damage. Meat 33(6):24-26. Nov.1950. 286.85 M464

6543 PETROV, T. K. Extensive construction of ponds and reservoirs. (In Russian.) Les i Step' 2(5):25-33. May 1950. 99.8 L565

6544 ROBERTS, N. Fire! Pa. Farmer 143:182-183. Sept.23,1950. 6 P383

Prevention and fire fighting facilities.

6545 RUGGLES, E. W. Engineering Extension Section—a statement of aims and policies. Assoc. Land-Grant Col. & Univ. Proc. (1949)63:170-171. 1950. 4 As7

Engineering Extension Section of the Association of Land-Grant Colleges and Universities.

6546 SOBRERO, L. A. Protección contra los rayos. Campo [Guadalajara] 18(6):11-12. June 1950. 8 G76

Lightning protection.

6547 STEPHENSON, A. Surveying in the Falkland Islands Dependencies. Roy. Inst. Chartered Surveyors. J. 30:338-355. Ref. Oct.1950. 282.9 C38J

6548 STREKALOVA, L. I., and others. Mechanization of construction of ponds—a great help to collective farms. (In Russian.) Les i Step' 2(6):36-37. June 1950. 99.8 L565

D. I. Ponomarev, V. S. Zakharov, and I. A. Khrapov, joint authors.

6549 STUCKEY, W. E. Ohio starts farm safety college training. Farm Safety Rev. 8(6):3. Nov./Dec. 1950. 449.8 F22

Course given in Department of Agricultural Engineering, Ohio State University College of Agriculture.

6550 VUKOLOV, A. A. Complex brigades in the construction of ponds and reservoirs on collective farms. (In Russian.) Les i Step' 2(6):32-35. June 1950. 99.8 L565

Utilization of equipment chiefly.

6551 WALKER, W. P., and POFFENBERGER, P. R. Local rural road problems in Maryland. Md. Agr. Expt. Sta. B. A-59,23 p. Oct.1950. 100 M36S

6552 WIENER, F. Arbeits- und wegeunfälle in der land- und forstwirtschaft im jahre 1949 im lande Kärnten. Kärntner Bauer 100:275. Aug.10,1950. 19 K14

## FARM MACHINES AND EQUIPMENT

6553 ARKEMA, P. W. B. Rural demonstration with hay loaders and hay presses. (In Dutch.) Gelders Land-bbl. 13(25):6. June 24,1950. 12 G282

6554 BAB'EV, N. I. Integrated mechanization of loading and unloading [of sugar beets]. (In Russian.) Sakh. Promysh. 24(5):14-19. May 1950. 65.8 Sa2

6555 BADELL, C. E. Las maquinas agricolas de industria nacional no son solo posibilidades. Mundo Agr. 2(15):6-15. Aug.1950. 9 M92

Argentina.

6556 BAUCHET. Reflexions sur les attelages des outils vignerons. Prog. Agr. et Vitic. 1950:227-228. Oct. 1/8,1950. 14 P94

6557 BERG, B. W., and TERRY, R. Production and distribution of farm equipment and tractors. East. Dealer 44(7,i.e.9):7-8. Sept.1950. 58.8 Ea7

6558 BONDON, J. La motorisation de notre agriculture à travers l'Exposition de Senlis. Génie Rur. 43:285-286. Sept.1950. 58.8 Au8

6559 CARAPETO BURGOS, R. Instrumentos agrícolas y maquinismo. Badajoz. Diputación Prov. B. de Inform. Agr. y Ganad. 8(78):17,19-21,23. Mar./July 1950. 15 B14

6560 CARENA, A. Mechanization of agriculture and the Second International Show of Interchange with the West. (In Italian.) Glor. di Agr. 60:293. Sept.17,1950. 16 It1G

6561 CATHELINAUD, R. L'effort d'équipement de l'agriculture en Tunisie. B. Econ. et Social de la Tunisie 44:11-15. Sept.1950. 280.8 B874

6562 CHILDERS, L. E. Trend is to higher speed in farming. New Eng. Homestead 123(17):11,37. Sept.9, 1950. 6 N442

Farm equipment.

6563 CIOLINA, F. La mécanisation de l'agriculture à Madagascar. Marchés Colon. 6:2345-2347. Sept.30, 1950. 286.8 M33

6564 CROWE, G. B. Where do we stand in cotton mechanization? Delta Council News 11(10):3. Oct. 1950. 280.8 D38

6565 CULPIN, C. The mechanization of root crops. Brit. Agr. B. 3(9):15-22. Spring 1950. 10 B776

6566 CUNHA, O. R. DA. Mechanization of agriculture. (In Portuguese.) Agr. e Pecuaria 21(325):62-64. Aug.1950. 9.2 Ag89

Brazil.

6567 DUPONT, L. Motorisation agricole. Voix des Colons 32(1570):1. Aug.21,1950. 24 V85

6568 EIJSSVOOGEL, W. F. Mechanization of agriculture in Surinam. (In Dutch.) (Sum.) Landbk. Tijdschr. 62:508-509. July 1950. 105.2 Or3

6569 EWING, E. C. Calidad de fibra y producción mecánica del algodón. Hacienda 45(10):38-40,66. Oct. 1950. 6 H11

6570 FINKENZELLER, R. Saatzüchter und technik. Dreschen u. Pflügen 3(8):3. Aug.15,1950. 58.8 D81

6571 FITZGERALD, O. A. Inventin'est farmers you ever saw. Oreg. Farmer 73:709,731. Oct.5,1950. 6 Or32

Invention of labor-saving farm equipment.

6572 GORDAN, A. S. Essential considerations in mechanization of farming. Food & Agr. Organ. United Nations. FAO Devlpmt. Paper 5,11 p. June 1950. 281.9 F733

6573 HANSEN, K. Farm mechanization. (In Danish.) Tidsskr. f. Landøkon. 1950:479-481. Sept.1950. 11 T43

6574 HEIM, M. Die technik in der allgäuer landwirtschaft. Allgäuer Bauernbl. 18:480-481. Aug.24,1950. 18 AL53

Mechanization.

6575 HEITSHU, D. C. Place of research in farm machinery design. Agr. Engin. 31:501-502. Oct.1950. 58.8 Ag83

6576 HENARES, H. G. Farm mechanization and surplus tractors. Sugar News 26:433-434. Aug.1950. 65.8 Su393



- 6577 HERBSTHOFER, F. XXII<sup>e</sup> Salon de la Machine Agricole in Paris. Österr. Landtech. 3:131-135. May 1950. 58.8 L236
- 6578 HIGHT, T. Revolution in the salad bowl; production line methods make a science of big-time vegetable growing. Ford Farming 3(3):3-4. Summer 1950. 58.8 F752
- 6579 HOLMSTRÖM, S. Investments in agricultural equipment. (In Swedish.) Lantmannen 34:707-710. Sept. 16, 1950. 11 L234
- 6580 JOHNSON, J. D. Farm machines go to work in Hawaii's sugar fields. (Excerpts.) S. A. E. [Soc. Automotive Engin.] J. 58(10):30-34. Oct. 1950. 291.9 S01
- 6581 KASHUTIN, V. N. On evaluating agricultural machines. (In Russian.) Sel'khoz mashina 1950(6):20-23. June 1950. 58.8 Se42
- 6582 KOCHER, S. Mechanized procurement of peat for fertilizer. (In Russian.) Mashinno-Traktornaya Sta. 10(6):44. June 1950. 58.8 M11
- 6583 KOMAROV, N. S., and CHERNOV, G. G. Vzaimozamenimost' v sel'skokhoziaistvennom mashinostroenii [Interchangeability of parts in agricultural machinery construction]. Moskva, Gos. Nauch.-Tekn. Izd-vo Mashinostroitel'noi Lit-ry, 1949. 166 p. 291 K833
- 6584 KRAVCHENKO, S. F., and BONDARENKO, V. A. Air-lifts for transferring sugar beets. (In Russian.) Sakh. Promysh. 24(5):19-22. May 1950. 65.8 Sa2
- 6585 KRIEBEL, M. Landwirtschaftliche maschinen auf der "Westfalschau." Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1134. Aug. 24, 1950. 18 L2346
- 6586 KULKE, E. Betriebswirtschaftliche bauaufgaben in der landwirtschaft. Hannoversche Land- u. Forstwirtschaft. Ztg. 103:503. May 20, 1950. 18 H194
- Use of equipment to increase productivity.
- 6587 LACOMBE, R. Démonstration de moto-viticulture à La Valette les 17 et 18 octobre, à Montpellier. Prog. Agr. et Vitic. 1950:205-207. Oct. 1/8, 1950. 14 P94
- 6588 LOLLICHON, M. Les possibilités d'application de la culture mécanique sur les terres alluvionnaires des berges du Mékong. (Sum.) Agron. Trop. 5:405. July/Aug. 1950. 26 Ag86
- 6589 LÓPEZ GONZÁLEZ, J. La mecanización de la agricultura en México. Rev. de Econ. 8:261-264. Aug. 1950. 280.8 R3293
- 6590 LUYTEN, G. Equipment demonstration. (In Dutch.) Fruitteelt 40:534-535. July 13, 1950. 86 N28
- 6591 MARKSTEIN, D. The high cost of cutting prices. East. Dealer 44(7, i.e. 9):11-12. Sept. 1950. 58.8 Ea7
- Farm equipment.
- 6592 MEISSNER, F. E. Silage for fodder conservation. So. Austral. Dept. Agr. J. 53:565. July 1950. 23 So84
- A labor-saving device used in stacking forage.
- 6593 MERTENS, W. Kritische betrachtungen zur landmaschinenschau DLG-Ausstellung 1950. Hannoversche Land- u. Forstwirtschaft. Ztg. 103:589. June 24, 1950. 18 H194
- 6594 M'EWEN, E. Farm mechanisation and the agricultural engineer. Engineering 170:262-263. Sept. 22, 1950. 290.8 En322
- 6595 MILLS, R. P. Contracting helps both parties. Power Farmer 5(4):25-27. Oct. 1950. 58.8 P872
- Equipment rental.
- 6596 NAGEL, E. Intensivierung und arbeitserleichterung in der landwirtschaft. Bad. Landwirt. Wchnbl. 117:629. (Concl.) Sept. 16, 1950. 18 B142
- Mechanization.
- 6597 PALMADE. Motoculture et pacte d'indivision. Acad. d'Agr. de France. Compt. Rend. 36:485-487. June 21/28, 1950. 14 P215Bc
- 6598 PANUKOV, D. N. Motorized implements for vineyards. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):29. July 1950. 95.8 V77
- 6599 PINCHES, H. E. Hydraulic controls and soil conservation implements. Agr. Engin. 31:514, 516. Oct. 1950. 58.8 Ag83
- 6600 PURVIS, G. H. The student's handbook to farming implements and machinery. Worcester, Eng., Littlebury, 1950? 140 p. 58 P972
- 6601 REHRL, K. Montagewerkzeuge. Österr. Landtech. 3:135-137. May 1950. 58.8 L236
- 6602 ROBINSON, T. C. M. Farm mechanization and the good life. Agr. Bur. N. S. Wales. State Conf. Hawkesbury Agr. Col. 26:21-23. 1950. 23 Ag82S
- 6603 SNETOV, I. I. My method of work with a TL-2 TSINS tractor shovel. (In Russian.) Sakh. Promysh. 24(5):11-13. May 1950. 65.8 Sa2
- In sugar beet loading.
- 6604 STAUSS, W. Die landtechnik als betriebswirtschaftliches problem. Hannoversche Land- u. Forstwirtschaft. Ztg. 103:517-518. May 27, 1950. 18 H194
- Mechanization.
- 6605 TOLSTOV, V. K. Improvement of shovel of TL-2 TSINS tractor baller. (In Russian.) Sakh. Promysh. 24(6):39-40. June 1950. 65.8 Sa2
- For loading sugar beets.
- 6606 TULL, Power on the land. Power Farmer 5(4):20-22. Oct. 1950. 58.8 P872
- Mechanization in England.
- 6607 TUSHINGHAM, H. W. Farm equipment copy major classification. Editor & Pub. 83(45):36. Nov. 4, 1950. 238.28 E44
- Advertising.
- 6608 UCHOA, A. B. Influence of mechanization on domestic agriculture [Brazil]. (In Portuguese.) Agr. e Pecuária 21(324):58, 63-65, 69, 71. July 1950. 9.2 Ag89
- 6609 VYSOTSKIY, A. A. Methods of measuring the working power in testing agricultural machines. (In Russian.) Sel'khoz mashina 1950(6):11-14. June 1950. 58.8 Se42
- 6610 WHITHER Chinese agriculture? Agricultural authorities study and report on practicability of machines in China. Impl. Rec. 47(11):25, 32. Oct. 1950. 58.8 Im73
- 6611 WORMLI, B. Simplification of the potato production. (In Norwegian.) Norsk Landbr. 16:279-280. July 21, 1950. 11 N8122
- Equipment.
- Animal Husbandry Equipment
- 6612 BALLU, G. La traite mécanique doit être rapide pour être complète. Défense Agr. de la Beauce et du Perche 47:332-333. Sept. 2, 1950. 14 D36
- 6613 CALVERT, W. A. New heating devices make brooding easier. Broiler Growing 1(2):10, 35-37. Oct. 1950. 47.8 B782
- 6614 CHOMYSZYN, M. Mechanical milking of cows. (In Polish.) Med. Weter. 6:360-368. Ref. June 1950. 41.8 M463
- 6615 DAVIS, J. G. Recent advances in dairy equipment. Brit. Agr. B. 3(9):23-31. Ref. Spring 1950. 10 B776
- 6616 FAIBUSHEVICH, A. I. Udder support for cattle. (In Russian.) Veterinariya 27(7):40-42. July 1950. 41.8 V6426
- 6617 FLANAGAN, J. E., and AMAYA, R. A. Un bebedero automático para gallinas. Cent. Nac. de Agron. C. Agr. 8, 4 p. June 1950. 8 Sa54C
- 6618 FUSSELL, G. E. The historical development of dairy machinery. Power Farmer 5(5):32-35. Nov. 1950. 58.8 P872
- 6619 GEDDES, H. J. Latest developments in machine milking. Austral. Dairy Rev. 18(8):13-14; (9):9. (To be cont.) Aug. 1-Sept. 1, 1950. 44.8 Au73
- 6620 GRAY, N. T. Do you neglect the milking machine? Butter-fat [Vancouver] 28(7):3. Oct. 1950. 44.8 B98
- 6621 HERTRICH, E. Anschaffungs- und betriebskosten einer melkmaschine im bäuerlichen betrieb. Württemb. Wchnbl. f. Landwirt. 117:736-737. Aug. 5, 1950. 18 W96
- 6622 IRVING, R., WILLIAMSON, C. O., and SIMON, B. We like the hackamore. West. Horseman 15(10):27-31. Oct. 1950. 42.8 W522
- 6623 JOHNSON, E. Water your stock automatically. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:53-54. Oct. 1950. 275.28 Io94
- 6624 LYNN, H. P., and DURANT, A. L. Cattle holding chute. Livestock Wk. 4(43):22-23, 37. Aug. 31, 1950. 49 L753
- 6625 MCHENRY, S. L. Hot air brooding at two cents a bird. N. J. Farm & Gard. 21(10):38-39. Oct. 1950. 6 G162
- 6626 MOORE, A. C. Now is the time to get cracking on those renovations. Poultry [London] 107:208. Sept. 12, 1950. 47.8 P869



6627 PIERCE, W. C. Infrared rays as a source of heat for brooding chicks. Poultry Indus. [Boston] 54(4): 12-13. Oct. 1950. 47.8 N44

6628 RODRIGUEZ, J. I. Criaderos y salas de incubación. Agricultura [Madrid] 19:330-334. July 1950. 15 Ag84

6629 ROGALÉV, G. T. Combined feeder for horses. (In Russian.) Konevodstvo 20(6):29-31. June 1950. 42.8 K832

6630 RÖMER, R. R. Arbeit sparen erhöht die rendite. Geflügelhof 13:564-566. Aug. 25, 1950. 47.8 G276

6631 SCHRÖDER, G. Kleine winke für den bastelnden geflügelhalter. Deut. Wirtgeflügelzucht. 2:279-280. Aug. 26, 1950. 47.8 D483

Design for perches.

6632 TUCKER, L. O. Cleaning milking machines. Skagit Co-op Dairyman 28(2):15. Oct. 1950. 280.28 Sk1

6633 TURNER, C. W. Machine milking efficiency—as influenced by the normal formation of the cow's udder. Surge News 1950:1-4. (To be cont.) Summer 1950. 44.8 Su7

6634 VERRAN, R. F. Ducklings and brooders. S. A. P. A. Poultry B. 14(155):13-14. (Cont.) Aug. 1950. 47.8 So89

6635 WASHINGTON, STATE COLLEGE. POULTRY COUNCIL. Laying cages for chickens. Wash. State Col. Ext. B. 383,8 p. Oct. 1950. (Poultry Pointers 1, rev.) 275.29 W27Pou

#### Cultivation and Tillage Equipment

6636 AGUILO BONNIN, J. Equipos mecánicos en los grandes movimientos de tierras. Agros [Lisboa] 1(3): 8-10. Mar. 1950. 58.8 Ag87

6637 ALBERTA AGRICULTURAL ENGINEERING COMMITTEE. One-way disc maintenance and operation. Alberta. Dept. Agr. Joint Ser. P. 6, rev., 17 p. Feb. 1950. 7 AL12J

6638 BLASCH, J. Bodenseilzug in der ebene? Osterr. Landtech. 3:124-127. May 1950. 58.8 L236

Plowing equipment.

6639 CLARK, F. L. Feast or famine? Development of tools for under-surface tillage traced back to 1908 in Cheney, Wash. Impl. Rec. 47(11):24,32. Oct. 1950. 58.8 Im73

6640 COMBAL, H. La liaison entre le tracteur et les instruments de travail du sol. Voix des Colons 32 (1572):1. Sept. 4, 1950. 24 V85

6641 DOGANOVSKIY, M. G. Automatic safety devices on soil cultivating machines. (In Russian.) Mashinno-Traktornaya Sta. 10(5):35-37. May 1950. 58.8 M11

6642 DOGANOVSKIY, M. G. Soil-cultivating machines for the north-western zone of the non-black earth area of U.S.S.R. in the crop rotation system of agriculture. (In Russian.) Sovet. Agron. 8(6):44-50. June 1950. 20 So84

6643 ENGELHARD, J. Le lien d'aluminium préfabriqué. Rustica 23:801. Sept. 17, 1950. 14 R92

For tying up of plants and vines.

6644 FARRINGTON, E. I. My hobby is testing new garden tools. Flower Grower 37(5):38,57-58. May 1950. 80 M72

6645 FISCHER-SCHLEMM, W. E., and BOXLER, B. Motorische bodenbearbeitung (ausser schlepper). Masch. in der Landwirt. D2,64 p. June 1950. 58 M37

6646 GALLWITZ, and JUNG, K. F. Untersuchungen an hackfräsen. Landtechnik 5:651-658. Sept. 30, 1950. 58.8 L235

6647 GRIGOR'EVA, A. S. Experiment in using harvesting and disking assemblies and field plowing with plows and colters. (In Russian.) Sovet. Agron. 8(7):24-35. July 1950. 20 So84

6648 HAWKINS, J. C. Cultivations with tractor implements. Brit. Farm Mech. 2:326-328. Sept. 1950. 55.8 B772

6649 HIGGINS, F. H. "By their fruits—"; the Diesels have lifted orchard and grove crops out of the marginal farming field by cutting costs, increasing quality and giving management more powerful tools. Diesel Prog. 16(11):40-41. Nov. 1950. 291.8 D56

Tillage on irrigated land.

6650 HIGGINS, F. H. On the level with Diesels; irrigation brought to eleven Western States a guaranteed farm crop that has slowly developed special land shaping equipment to plow back hundreds of millions for long term dividends. Diesel Prog. 16(11):34-36. Nov. 1950. 291.8 D56

6651 KOGSTAD, K. J. Mechanization of nurseries and gardening. (In Norwegian.) Gartneryrket 40:563-564,569,575-579. Aug. 4-11, 1950. 80 G1938

6652 LENTZ, Fortschrittliche kartoffelbestellung und -pflege. Hannoversche Land- u. Forstwirt. Ztg. 103: 396-398. Apr. 15, 1950. 18 H194

Tillage equipment.

6653 LÖHR, L. Seilzug im ebenen gelände. Landtechnik 5:659-664. Sept. 30, 1950. 58.8 L235

Plowing.

6654 MAHER, R. Port Lavaca farmer invents double-blade levee-push. Rice News 17(9):3-4. Sept. 1950. 59.8 R362

6655 MARKS, K. Regelung der arbeitstiefe durch kraftheber. Landtechnik 5:696-698. Oct. 15, 1950. 58.8 L235

Hydraulic controls for tractor plowing.

6656 MARTIN, R. Use a hoe to chop cotton if you like but machines do it easier. Farmer-Stockman 53, i.e. 63(10):11. Oct. 1950. 6 Ok45

6657 MEIKLE, W. L. Land levelling procedure utilizes heavy equipment. Civil Engin. 20:715-718. Nov. 1950. 290.8 C49

6658 MERKULOV, M. D., and BUDKO, A. I. Testing of disk shallow plows. (In Russian.) Sel'khoz mashina 1950(7):23-24. July 1950. 58.8 Se42

6659 MERRILL, R. M. Equipment for reduction of crop residues. Agr. Engin. 31:316. Oct. 1950. 58.8 Ag83

Stubble-mulching equipment, etc.

6660 MÉZY, J. Le binage mécanique des betteraves. Motorisation Agr. 5:409-412. July/Aug. 1950. 58.8 M85

6661 MOODY, G. S. One tool does three jobs. South. Planter 111(10):12. Oct. 1950. 6 So89

Multiple-use drill.

6662 MOORE, I. Cultivations and weed control; power equipment the weapon. Power Farmer 5(4):23-24. Oct. 1950. 58.8 P872

6663 RYERSON, G. E. Machinery requirements for stubble-mulch tillage. Agr. Engin. 31:506-508,510. Oct. 1950. 58.8 Ag83

6664 POYNOR, R. R. An experimental mulch planter. Agr. Engin. 31:509-510. Oct. 1950. 58.8 Ag83

6665 SABODA, V., and KONDRAT'EV, M. Arrangement of tillable assembly with ASKHTZ-NATI tractors. (In Russian.) Mashinno-Traktornaya Sta. 10(6):35-36. June 1950. 58.8 M11

6666 SHCHUCHKIN, N. V. Assembly of hanging soil-cultivating machines for tractors with hydraulic lifts. (In Russian.) Sel'khoz mashina 1950(6):1-7. June 1950. 58.8 Se42

6667 SOLAROLI, G. New type germinator. (In Italian.) Gior. di Agr. 60:294. Sept. 17, 1950. 16 It1G

6668 VOROB'EV, L. I. Kul'tivatory i zubovye bórony [Cultivators and spike-tooth harrows]. Moskva, Gos. Nauch.-Tekh. Izd-vo Mashinostroitel'noy Lit-ry, 1950. 158 p. 291 V91

#### Fertilizer and Seed Distributors

6669 ALEKSANDROV, V. I. Investigation of fertilizer-spreading devices for cultivating drills and cultivators-plant feeders. (In Russian.) Sel'khoz mashina 1950(6):15-18. June 1950. 58.8 Se42

6670 DELASNERIE, J. Manutention, transport et épandage du fumier. Motorisation Agr. 5:402-406. July/Aug. 1950. 58.8 M85

6671 FAIRBANKS, G. E. Fertilizer placement machine for experimental plot work. Agr. Engin. 31:556, 564. Nov. 1950. 58.8 Ag83

6672 GONCHARENKO, F. T. On mechanizing the distribution of granulated fertilizers. (In Russian.) Sel'khoz mashina 1950(6):19-20. June 1950. 58.8 Se42

6673 HUMAN, J. F. New potato planter designed by young farmer. (In Afrikaans.) Landbouweekblad 32(1623): 37. Aug. 23, 1950. 24 L232

6674 MENIS, Y. A can for holding seedlings during planting. Hassadeh 30:554-555. July 1950. 26 H27

In Hebrew.



- 6675 MEZY, J. Premières conclusions sur l'emploi des semoirs spécialisés pour betteraves. *Motorisation Agr.* 5:407-408. July/Aug.1950. 58.8 M85
- 6676 MOSKALET'S, V. I. In regard to a fertilizer distributing machine. (In Russian.) *Sel'khoz mashina* 1950(6):18-19. June 1950. 58.8 Se42
- 6677 REA, H. E., HULBURT, W. C., and ADAMS, J. E. A multiple-cell, belt-type distributor for use with tractor implements in fertilizer tests with field crops. *Soil Sci. Soc. Amer. Proc.* 1949(14):391-395. 1950. 56.9 So3
- 6678 RUEGER, A. Zuckerrüben-sämaschinen in England. *Grüne* 78:1071-1074. Sept.29,1950. 17 Sch9
- 6679 SERBULOV, A. Experiment in mechanized planting of yarrowized potatoes. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):27. June 1950. 281.8 K83
- 6680 TEMPLE, L. The Dawson [seedling] planting tool. *Reclam. Era* 26:187,197. Oct.1950. 156.84 R24
- 6681 VITEAU, M. Chargeurs et épandeurs de fumier connaîtront-ils bientôt en France le succès qu'ils méritent? *Génie Rur.* 43:287-289. Sept.1950. 58.8 Au8
- 6682 WESSEM, J. VAN. A mechanized injection machine. (In Dutch.) *Fruiteelt* 40:539. July 13,1950. 86 N28
- For application of fertilizer.

#### Harvesting Equipment

- 6683 BLOODWORTH, M. E., BURLESON, C. A., and COWLEY, W. R. Progress report: defoliation experiments conducted with tractor mounted equipment. *Cotton Digest* 23(9):14-15. Nov.18,1950. 286.82 C822
- 6684 BORIN, K. For a high productivity of combines. (In Russian.) *Mashinno-Traktornaia Sta.* 10(6):10-15. June 1950. 58.8 M11
- In grain harvesting.
- 6685 BRICKWOOD, H. The storage of harvest implements. *Power Farmer* 5(4):44-45,47. Oct.1950. 58.8 P872
- 6686 CHIRKOV, G. N., and FEDOSEEV, B. V. Harvesting of wild-growing grasses for seeds. (In Russian.) *Sotsialist. Zhivotnovod.* 12(5):89-93. May 1950. 49 So71
- Equipment.
- 6687 CLOT, F. L'arrachage mécanique des pommes de terre. *Foyer Rur. [Paris]* 13(148):6. Aug.27,1950. 14 F83
- 6688 DROZDOV, N. I. Hanging hay-harvesting machines. (In Russian.) *Sel'khoz mashina* 1950(6):7-8. June 1950. 58.8 Se42
- 6689 FATH, A. Von der dreschmaschine zum mäh-drescher. *Orion* 5:585-592. Aug.1950. 474 Or4
- 6690 FOLTINEK, H. Die instandhaltung des grassmähers. *Österr. Landtech.* 3:121-124. May 1950. 58.8 L236
- 6691 GAFANOVICH, A. A. Increasing durability of V-belt drive of automotive S-4 combine. (In Russian.) *Sel'khoz mashina* 1950(7):22-23. July 1950. 58.8 Se42
- 6692 GARDENER, G. Gedanken beim obstpflücken. *Berufsgärtner* 3(7):1-2. July 1950. 80 B463
- Chiefly on harvesting equipment.
- 6693 GELINDER, C. F. The predecessors of the modern combines. (In Swedish.) *Lantmannen* 34:671-672. Sept.2,1950. 11 L234
- 6694 GEL'MAN, V. Practices in using harvesting-disking assemblies at machine-tractor stations in Ukraine. (In Russian.) *Mashinno-Traktornaia Sta.* 10(5):21-26. May 1950. 58.8 M11
- 6695 HULL, D., and WOLF, D. Get all the corn there is. *Farm J.* 74(10):42. Oct.1950. 6 F2212
- Corn picker adjustments to cut corn losses.
- 6696 HURD, A. Harvesting green crops. *Country Life [London]* 108:1216. Oct.13,1950. 80 C83
- Equipment for harvesting forage crops.
- 6697 HURLBUT, L. W. We should streamline our combines inside—like a goose's gut. *Farm Impl. News* 71(21):38-39,94. Nov.10,1950. 58.8 F22
- 6698 IVANOV, A. Automotive KS-10 mowing machine. (In Russian.) *Mashinno-Traktornaia Sta.* 10(5):26-29. May 1950. 58.8 M11
- 6699 KELLER, A. H. A corn picker with stalk shredder. *Agr. Engin.* 31:512,534. Oct.1950. 58.8 Ag83

- 6700 LAGAUSIE, F. DE. Rentabilité des moissonneuses-batteuses. *Sol* 1950:118-122. 14 So4
- 6701 MAKHLIN, E. A. Power indexes of grain combines. (In Russian.) *Sel'khoz mashina* 1950(7):18-21. July 1950. 58.8 Se42
- 6702 MAL'TSEV, K. Our experiment of combined harvesting and shallow plowing. (In Russian.) *Mashinno-Traktornaia Sta.* 10(6):20-23. June 1950. 58.8 M11
- Millerovskaja Machine-Tractor Station.
- 6703 MARTIN, R. Why not let machines pick our cotton? *Farmer-Stockman* 53,i.e.63(9):9,27. (To be cont.) Sept.1950. 6 Ok45
- 6704 MORRIS, F. C. Harvesting lucerne seed with the header; a new method with big possibilities. *Agr. Gaz. N. S. Wales* 61:407-408. Aug.1,1950. 23 N472
- 6705 OSTANKOVICH, V. F., and ZUBAREV, G. A. Development of combines in Russia and U. S. S. R. (In Russian.) *Sel'khoz mashina* 1950(7):15-17. July 1950. 58.8 Se42
- 6706 PARKS, R. R. Mechanical harvesters. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 3:26-27. 1949. 93.44 C122P
- 6707 PARKS, R. R. Short-cut to profit. *West. Fruit Grower* 4(8):13-14. Aug.1950. 95.8 G762
- Nut harvesting equipment.
- 6708 PETROV, S., and BISNOVATYĬ, S. Installation and adjustment of hydraulic lift of S-4 combine. (In Russian.) *Mashinno-Traktornaia Sta.* 10(5):42-44. May 1950. 58.8 M11
- 6709 PUSTYGIN, M. A. Fundamental problems and prospects of Soviet combine construction. (In Russian.) *Sel'khoz mashina* 1950(7):6-10. July 1950. 58.8 Se42
- 6710 SEGLER, G. Grünfütter- und heuerntemaschinen auf der DLG. *Landtechnik* 5:582-584. Aug.31,1950. 58.8 L235
- 6711 SIECK, K. A. Loading of bags in the field. (In Swedish.) *Tolvmandsbladet* 22:240-243. Aug.1950. 11 T58
- Equipment for loading of grain.
- 6712 TKACHENKO, M. Combine harvesting of castor-beans. (In Russian.) *Mashinno-Traktornaia Sta.* 10(6):24-27. June 1950. 58.8 M11
- 6713 TOLMAN, B. Pros and cons of beater toppers. *U & I Cult.* 10(2):5-6. Aug.1950. 66.8 U12
- Sugar beets harvesting equipment.
- 6714 VAN CLEVE, R. Caution with corn pickers. *Ill. Agr. Assoc. Rec.* 28(10):20. Oct.1950. 6 IL62
- 6715 VERBEKE, Arracheuses - ensacheuses pour la récolte des pommes de terre. *Cour. Hort.* 12:442-443. Aug.1950. 80 C834
- 6716 VICTOR, B. Der "klassische" mäh-drescher. *Landtechnik* 5:630-632. Sept.15,1950. 58.8 L235
- 6717 WARDROP, G. R.A.S.E. forage crop machine trials; balers, bale loaders and forage harvesters show good work at Shillingford. *Farmer & Stock-Breeder* 64:2660-2661. Sept.26,1950. 10 F228
- 6718 ZHUK, I. A. M. Fundamental requirements for grain harvesting machines and technology of harvesting spicate crops. (In Russian.) *Sel'khoz mashina* 1950(7):11-12. July 1950. 58.8 Se42
- 6719 ZHUK, I. A. M., and KOGAN, S. Toward a more daring introduction of the advanced technology in grain harvesting with combines. (In Russian.) *Mashinno-Traktornaia Sta.* 10(6):5-10. June 1950. 58.8 M11

#### Land Clearing Equipment

- 6720 BEAMISH, J. E. Land-clearing for agriculture in British Columbia. *Brit. Columbia Dept. Agr. B.* 85,rev.,49 p. 1950. 7 B77
- Includes equipment.
- 6721 MCKINNEY, J. Put those loafing acres to work. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 65(10):15. Oct.1950. 6 P945K
- Land clearing equipment.
- Processing Equipment Used on the Farm**
- 6722 AHRANO, F. W. Drying is surest way to get hay. *Fla. Cattleman* 15(2):32-34. Nov.1950. 43.8 F66
- 6723 ALBRECHT, R. Corn drying: what's best? Leave in field? Dry with or without heat? *Prairie Farmer, Gen. Ed.* 122(19):20-21,54. Oct.7,1950. 6 P883
- Includes equipment.
- 6724 ANCESCHI, L. Hay making. (In Italian.) *Avvenire Agr.* 58:187-188. Aug.1950. 16 Av9



6725 BERNGARDT, E. N., and ZOLOTUKHIN, A. T. Mekhanizatsiia podgotovki kormov i drugikh rabot v zhivotnovodstve [Mechanization of feed preparation and of other work in animal husbandry]. Voronezh, Voronezhskoe Obl. Kn-vo, 1950. 62 p. 389.7 B452

6726 BROUGHTON, A. Corn is wet! Wis. Agr. & Farmer 77(18):4. Sept. 16, 1950. 6 W751  
Drying equipment.

6727 CAMPBELL, J. D. Effects of auxiliary gin equipment on grades of cotton. Okla. Agr. Expt. Sta. B. B-357, 14 p. Sept. 1950. 100 Ok4

6728 FEW, F. G. The cooling and holding of milk and cream on the farm. Queensland Agr. J. 71:33-40. (Cont.) July 1950. 23 Q33

Milk coolers.  
6729 FOSTER, G. H. Methods of conditioning shelled corn. Agr. Engin. 31:497-500, 502. Oct. 1950. 58.8 Ag83

Equipment.  
6730 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. AGRICULTURAL LAND SERV. The design of buildings for grass drying plants. Gt. Brit. Agr. Land. Serv. Fixed Equip. Farm. L. 4, 14 p. May 1950. 10 G7944

6731 GUDKOV, I. A. Flax [seed] cleaning equipment for collective farms. (In Russian.) Kolkhoz. Proizvodstvo 10(6):39. June 1950. 281.8 K83

6732 GUSSONI, L. Equipment for the dehydration of grass. (In Italian.) Cent. di Studi per l'Ingegn. Agr. Mem. ed Atti 5:15-21. Mar./Apr. 1950. 58.9 C33

6733 HILL, G. B. Engineering an automatic hay baler. Agr. Engin. 31:557-558, 564. Nov. 1950. 58.8 Ag83

6734 HOLMAN, R. L. Selling refrigerators farm-to-farm. Elect. Merchandising 82(11):54-56, 146. Nov. 1950. 335.8 EL242

6735 JARRETT, G. Grass drying in the West. Power Farmer 5(4):33-35. Oct. 1950. 58.8 P872  
England.

6736 KOONTZ, L. L. Farmers in "Ole Virginny" like the electric hay dryer. Elect. World 134(17):100-101. Oct. 23, 1950. 335.8 EL2

6737 LLOYD, R. Equipment for co-operative [grass] drying. Brit. Farm Mech. 2:338-339. Sept. 1950. 55.8 B772

6738 MONTI, V. B. The farm separator and variation of cream tests. Austral. Dairy Rev. 18(8):17, 25-26. Aug. 1, 1950. 44.8 Au73

6739 MOORE, H. I. The conservation of grass-hay and silage. Brit. Agr. B. 3(9):8-13. Spring 1950. 10 B776

6740 PEIKERT, F. W. Mow finishing of hay. Agr. Inst. Rev. 5(5):49-50, 53. Sept. 1950. 7 Ag8

6741 RADTKE. Die heutrocknung auf gerüsten. Hannoversche Land- u. Forstwirtschaft. Ztg. 103:461-462. May 6, 1950. 18 H194

6742 RATHBONE, R. B. Barley threshing clinic. Farm Impl. News 71(20):60-61. Oct. 25, 1950. 58.8 F22

6743 RUPP, R. G. Soft corn again? Farmer [St. Paul], Gen. Ed. 68(18):1, 26-27, 35. Sept. 16, 1950. 8 F2211

Drying equipment.

6744 VAN VLACK, C. H., and SHEDD, C. K. Drye corn means safer storage. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:39-41. Sept. 1950. 275.28 I094  
Advantages of mechanical drying.

6745 VOLCHKOV, I. Elimination of disturbances in the work of separators. (In Russian.) Moloch. Promysh. 11(6):45-46. June 1950. 44.8 M734

6746 WATROUS, G. H., JR. A study on the performance of a side-opening milk cooler. (Extr.) Canad. Dairy & Ice Cream J. 29(9):44, 46. Sept. 1950. 44.8 C162

#### Repair, Maintenance, and Construction Equipment

6747 ALLEN, W. S. What about your farm shop? Prog. Farmer, Tex. Ed. 65(10):22. Oct. 1950. 6 T311

6748 BARON, D. What users of stable cleaners say. Farmer's Mag. 47(10):41-43. Oct. 1950. 7 C165

6749 BONFIELD, J. P. Money-saving machine shed. Business Farming 9(6):2-3. Early Fall 1950. 6 B96  
Shed and shop.

6750 BRETON, J. F. L'entretien du matériel. Agr. Prat. 114:449-451. Oct. 1950. 14 J82

6751 HUNT, H. M. Shop becomes multi-farm affair. Elect. on the Farm 23(8):10, 12, 14. Oct. 1950. 335.8 EL27

6752 JONES, F. R. Repair shop for the farmer. Humble Farm Family 7(4):14. Sept. 1950. 6 F233

6753 SAVVIDES, A. Care of agricultural machinery. Countryman [Nicosia] 4(8):12-13. Aug. 1950. 25 C83

6754 WAKEMAN, T. J. Teacher's farm shop. Better Farming Methods 22(10):58, 60-61. Oct. 1950. 58.8 B46

#### Spraying and Dusting Equipment

6755 BLOODWORTH, M. E., BURLESON, C. A., and COWLEY, W. R. A tractor-mounted spray for cotton defoliation. Tex. Agr. Expt. Sta. Prog. Rpt. 1284, 4 p. Oct. 27, 1950. 100 T31P

6756 BRONSON, T. E. Mist blower for spraying truck crops. (Abs.) Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc. 5:12. 1950. 422.12 N81

6757 COX, L. A report on spraying and dusting equipment. (Abs.) Tobacco Insect Conf. Proc. 10:5. July 27, 1950. 423.9 T55

6758 DEONG, E. R., PEER, K. C., and FANCHER, L. W. A new generator for producing dry aerosols with organic insecticides. J. Econ. Ent. 43:542-546. Aug. 1950. 421 J822

6759 FEDOROV, V. A. New type of spraying device for sprayers and dusters. (In Russian.) Sel'khoz mashina 1950(6):8-11. June 1950. 58.8 Se42

6760 GLEBOV, M. A. Testing of dusters and sprayers at the shelterbelts. (In Russian.) Les i Step' 2 (6):38-40. June 1950. 99.8 L565

6761 HOSCH. Arbeitserleichterung im pflanzen-schutz. Hannoversche Land- u. Forstwirtschaft. Ztg. 103:463. May 6, 1950. 18 H194

Spraying equipment.

6762 JOHNSON, R. K. A mechanical sprayer operated by one man. New Zeal. J. Agr. 81:39-40. July 1950. 23 N48J

6763 LATTNER, E. J. Spraying is here to stay and is highly profitable; county agents report in second annual survey. Amer. Farm Youth 16(5):36-37. Oct. 1950. 6 Am393

Includes types of equipment.

6764 SNEGOVSKIĬ, I. F. Sprayers for the protection of forest crops from pests and diseases. (In Russian.) Les i Step' 2(5):62-72. May 1950. 99.8 L565

6765 WOOTEN, O. B., JR., SMITH, W. R., and MEEK, W. E. Cultivator spray rig for farm tractor. Miss. Agr. Expt. Sta. B. 472, 19 p. Apr. 1950. 100 M69

#### Vehicles

6766 BELKIN, G. P., and IABLONSKIĬ, V. E. Kuznetskaf MTS [Kuznetsk Machine-Tractor Station]. Penza?Penzenskoe Obl. Izd-vo, 1950. 73 p. 281.179 B41

6767 BILLANCOURT. L'utilité du tracteur dans les petites entreprises agricoles. Rev. Agr. de l'Afrique du Nord 48:715-716. Sept. 29, 1950. 80 R326

6768 BJERNINGER, S. Cover for farm wagons. Provisional Swedish standard. (In Swedish.) Lantmannen 34:712-713. Sept. 16, 1950. 11 L234

6769 BLACK, W. W. All tractor maintenance starts with the operator. Wood [Chicago] 5(10):16-17, 40. Oct. 1950. 99.82 W859

6770 BLANCHARD, M. Utilisez dans votre moteur le carburant qui lui convient. Agr. Prat. 114:412-413. Sept. 1950. 14 J82

Tractors.

6771 BOBROV, N. Determination of progressive mean of specific [tractor] fuel consumption. (In Russian.) Mashinno-Traktornaf Sta. 10(5):19-20. May 1950. 58.8 M11

6772 BRENNER, W. G., and LUCKNER, H., GRAF. Die arbeitgeschwindigkeiten von schlepper-landmaschinen. Landtechnik 5:615-623. Ref. Sept. 15, 1950. 58.8 L235

6773 BRUGGEMANS, R. J. Recherches sur le tracteur agricole. I. Introduction à l'étude des carburants liquides. Gembloux. Inst. Agron. de l'État B. 17:3-15. 1948/1949. 105.1 G285

English summary.

6774 BYSTROVA, A. S., and BASOVA, A. I. Dis-petcherskaf sluzhba v MTS [Dispatching service in machine tractor stations]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 87 p. 283 B992

6775 CARRION, P. Empleo de los tractores en el viñedo. Semana Vitivinica 5(210):2-3. July 8, 1950. 95.8 Se5



- 6776 CAVINA, R. Animal traction and mechanical traction. (In Portuguese.) *Lav. Arroz.* 4(43):46. July 1950. 59.8 L39  
Draft horses and tractors.
- 6777 CHUDAKOV, D. Universal tractors with attachments. (In Russian.) *Mashinno-Traktornaya Sta.* 10(5):31-35. May 1950. 58.8 M11
- 6778 COMBAL, H. Les journées de motoculture d'Alger. *Motorisation Agr.* 5:394-396. July/Aug. 1950. 58.8 M85  
Tractor tests.
- 6779 COMBAL, H. Tracteurs à chenilles et tracteurs à roues en Algérie. *Voix des Colons* 32(1570):1. Aug. 21, 1950. 24 V85
- 6780 DAVYDOV, L. Rodina traktora [Birthplace of the tractor]. *Moskva, Profizdat*, 1950. 371 p. 58 D31R
- 6781 DOLIDOVICH, I. To improve the traction properties of wheeled tractors. (In Russian.) *Tekhsobety MTS* 11(17/18):5-7. 1950. 58.8 T233
- 6782 DUDMAN, R. A. Of horses and tractors. *Farm Econ.* 6:181-188. Aug. 1950. 281.8 F223
- 6783 FISCHER-SCHLEMM, W. E., and GOMMEL, W. Schlepper. *Masch. in d.r. Landwirt.* C1/2,84 p. Mar. 1950. 58 M37
- 6784 FRANKE. Bremsversuche mit ackerschleppern und anhängern. *Landtechnik* 5:666. Sept. 30, 1950. 58.8 L235
- 6785 FRANKE. Der wirtschaftlichste betriebsstoff. *Landtechnik* 5:694-696. Oct. 15, 1950. 58.8 L235  
Tractor fuel.
- 6786 FUJIBAYASHI, M., HONDA, M., and YAMAWAKI, S. On the drawbar test of a tractor on snow. (Abs.) (In Japanese.) *Jap. Forestry Soc. J.* 32:128. Apr. 25, 1950. 99.8 N62
- 6787 GEMEREN, P. VAN. Agricultural tractors at the Industries Fair. (In Dutch.) *Boer en Tuinder* 4(191):3. Sept. 16, 1950. 12 B632
- 6788 GOL'DFEL'D, S., DUPLIN, I., and PEREL', A. Improving the system of lubricating tractor engines. (In Russian.) *Mashinno-Traktornaya Sta.* 10(6):36-39. June 1950. 58.8 M11
- 6789 GOLUBEV, G. How to adjust for normal work the [fuel] injector of KD-35 engine. (In Russian.) *Mashinno-Traktornaya Sta.* 10(6):42-43. June 1950. 58.8 M11
- 6790 GRUPP, G. W. Diesels in the agriculture industry. *Diesel Power & Diesel Transportation* 28(11):30-33. Nov. 1950. 291.8 D562  
Tractors.
- 6791 HEDDON, O. K. The agricultural airplane project at Texas A. and M. College. (Abs.) *Amer. Assoc. Econ. Ent. No. Cent. States Br. Proc.* 5:11. 1950. 422.12 N81
- 6792 HERMAN, L. H. Small tractors can save you work. *Successful Farming* 48(10):192. Oct. 1950. 6 Sul2
- 6793 HERNDON, F. E. The Illinois farmer and petroleum. *Pacemaker* 8(17):3. Sept. 1, 1950. 280.28 P113  
Tractor fuel, etc.
- 6794 HIGGINS, F. H. British steam tractor still going at 771 Aveling & Porter Steamer came out to California to farm, log, and freight in 1874, when U.S. lifted duty to get industry started; over 3,500,000 tractors now used in farming. *Canad. Farm Impl.* 46(9):36,38. Sept. 1950. 58.8 C163
- 6795 HÖCHSTETTER. Schleppergemeinschaft—weg zur motorisierung. *Landbote* 4(31):4. Aug. 5, 1950. 18 L2336  
Germany.
- 6796 HOLLENBERG, A. H. More help for vo-agrs with tractor maintenance workshops. *Better Farming Methods* 22(10):16,48-49. Oct. 1950. 58.8 B46
- 6797 JEGERIN, H. Der ackerschlepper auf der 40. DLG-Ausstellung. *Hannoversche Land- u. Forstwirt.* Ztg. 103:590-591. June 24, 1950. 18 H194
- 6798 JOHNSON, J. L. The use of pneumatic tyres in agriculture. *Brit. Farm Mech.* 2:321-323. Sept. 1950. 55.8 B772
- 6799 KAYSER, E. Der schlepper von heute (und morgen). *Deut. Landwirt. Presse* 73(17):3; (18):3. Aug. 5-19, 1950. 18 D482  
Second installment has title *Das anbringen der arbeitsgeräte.*
- 6800 KOOPSTRA, H., and BOUMA NIEUWENHUIS, D. Tractoren en verdere mechanische drijfkracht voor de landbouw [Tractors and other mechanical motive power in agriculture]. *Haarlem, Kemperman*, 1949. 362 p. 58 K83
- 6801 KOROBOV, V. A. Traktory, avtomobili i sel'skokhoziaistvennyye dvigateli [Tractors, automobiles, and agricultural engines]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 447 p. (Uchebniki i uchebnye Posobiia dlia Vysshikh Sel'skokhoziaistvennykh Uchebnykh Zavedenii) 58 K846
- 6802 KRIEBEL, M. Welche kleinschlepper werden die entwicklung überstehen? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107A:1145-1146. Aug. 24, 1950. 18 L2346
- 6803 LAZAREV, A. Interchangeable parts of S-80 and S-65 tractor engines. (In Russian.) *Mashinno-Traktornaya Sta.* 10(5):39-41. May 1950. 58.8 M11
- 6804 LIVSHITS, L. Casehardening the ring grooves of pistons. (In Russian.) *Mashinno-Traktornaya Sta.* 10(6):45-48. June 1950. 58.8 M11
- 6805 MAKOED, L. E., ed. Traktor ASKHTZ-NATI model' 1 TA [ASKHTZ-NATI tractor model 1 TA]. *Moskva, Gos. Nauch.-Tekhn. Izd-vo Mashino-Stroitel'noi Lit-ry*, 1950. 179 p. 291 M28
- 6806 MASSOT, R. Dans l'Indre, un tracteur marche au gaz produit à la ferme. *J. de la France Agr.* 6:1089. Sept. 1/7, 1950. 14 J829  
Manure gas.
- 6807 MEYER, F. Kraftsparende hilfsmittel zum heben der anbaugeräte am schlepper. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107A:1072-1073. Aug. 10, 1950. 18 L2346
- 6808 MEYER, F. Über luftreifen und ihre behandlung. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107A:1147-1148. Aug. 24, 1950. 18 L2346
- 6809 MOISEEV, N. F. Orchard and garden tractor SOT at vineyards. (In Russian.) *Vinodel: i Vinograd. SSSR.* 10(6):46-47. June 1950. 95.8 V77
- 6810 PUEDE adquirir maquinaria moderna cualquier agricultor? Campo [Tacuba] (ser. 2) 18(702):1-2, 4, 6-10, 12, 14, 16, 18-24, 26, 28. (To be cont.) Aug. 31, 1950. 8 C157  
Tractor costs and returns.
- 6811 SHAFER, N. E., FURRER, J. D., and LOMAX, J. W. Aircraft in agriculture. *Nebr. Agr. Expt. Sta. C.* 88, 12 p. Ref. Sept. 1950. 100 N27
- 6812 SHKHVAT'SABAIA, G. A rotary dynamometer for [tractor] testing. (In Russian.) *Mashinno-Traktornaya Sta.* 10(5):37-38. May 1950. 58.8 M11
- 6813 SHUTTLEWORTH, W. W. Aerial spraying from helicopters may solve brush and weed control. *Amer. Hereford J.* 41(13):78. Nov. 1, 1950. 43.8 Am32
- 6814 STAMMERS, R. R. Why not a separate clutch for the power take-off? *Agr. Mach. J.* 4(9):20. Sept. 1950. 58.8 Ag86
- 6815 SVENSSON, K. Å. German tractor novelties shown in Frankfurt am Main. (In Swedish.) *Lantmannen* 34:651-652. Aug. 26, 1950. 11 L234
- 6816 THEBIS, R. Ein neuer dreirad-schlepper. *Allgauer Bauernbl.* 18:483. Aug. 24, 1950. 18 AL53
- 6817 TRESKUNOVA, S. Organizing the fueling of KD-35 tractors. (In Russian.) *Mashinno-Traktornaya Sta.* 10(6):39-41. June 1950. 58.8 M11
- 6818 TROW-SMITH, R. Two hundred and fifty tractors on trial; entries from eight countries were demonstrated at the twenty-seventh annual French show near Paris. *Power Farmer* 5(5):49, 52-53. Nov. 1950. 58.8 P872
- 6819 VEDENÍAPIN, G. Wear-out of piston rings and consumption of crankcase oil. (In Russian.) *Mashinno-Traktornaya Sta.* 10(5):29-30. May 1950. 58.8 M11  
Tractor engines.
- 6820 ZIPF, B., and WILLSON, B. Tractor rodeos—new sport. *Farm J.* 74(10):24. Oct. 1950. 6 F2212

## FARM STRUCTURES AND RURAL HOUSING

- 6821 BRADLEY, J. D. Farm buildings in Europe. *Farmer's Mag.* 47(10):9, 59. Oct. 1950. 7 C165
- 6822 FUSSELL, G. E., and FUSSELL, K. R. What's happening now. *Farmers Wk. [London]* 33(12):73. Sept. 22, 1950. 10 F2226  
Repair of farm buildings in England.



6823 GOUDSWAARD, N. B. A good and cheap farm. I, III-IV. (In Dutch.) Drents Landtbl. 31(26):3;(28):7;(29):8. July 1,15,22,1950. 12 D812

Farm buildings.

6824 KHALTURIN, V. Toward bolshevik organization in the construction of machine-tractor stations and repair enterprises. (In Russian.) Mashinno-Traktornaia Sta. 10(6):33-34. June 1950. 58.8 M11

6825 NICKELL, P. Conservation of human resources: housing. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:232-233. 1950. 4 As7

Rural.

6826 SIPIÄ, M. Rakennukset maatilan taloudessa. Buildings in the economy of farm. Työtehoseura. Julkaisu. 56,75 p. Ref. 1949. 20 M11

English summary.

6827 VINE, V. No rats on this farm. Farm J. 74 (11):38. Nov.1950. 6 F2212

Rat proofing the farm buildings.

6828 WOOLEY, W. C. Good planning pays off. Farm Builder 2(5):4-6. Sept./Oct.1950. 296.8 F222

Farm buildings.

#### Animal Shelters and Animal Service Buildings

6829 ALP, H. H. Are you going to build a poultry house? Hoard's Dairyman 95:709. Oct.10,1950. 44.8 H65

6830 ASMUNDSON, V. S. Space and equipment needs of turkeys. Calif. Turkey News 22:7. Sept.1950. 47.28 C12

6831 BARBADO, F. J. Shelters for cattle. (In Portuguese.) Azores. Comis. Regulad. dos Cereais. B. 6(12):92-98. Second Semes.1950. 15 Az6

6832 BATES, D. W. Insurance against rot! Hoard's Dairyman 95:681,692. Oct.10,1950. 44.8 H65

Insulation and ventilation of dairy barns.

6833 BENOY, W. G., and CHADBURN, R. W. The design of the modern dairy. Power Farmer 5(5):28-30,67. Nov.1950. 58.8 P872

6834 BERG, G. L. Laying houses are on the move. Everybodys Poultry Mag. 55(10):7,25. Nov.1950. 47.8 F213P

Construction.

6835 BLACKWELL, H. L. Spring-clean now. Farmers Wk. [London] 33(12):69. Sept.22,1950. 10 F2226

Sanitation in the poultry house.

6836 BOWIE, W. D. Air makes chicks grow. Checkerboard News 1950:6-7. Nov./Dec.1950. 389.78 C41

Ventilation.

6837 DICKINSON, H. All-year laborsaving hog house. Successful Farming 48(10):104,107. Oct.1950. 6 S12

6838 DOWNING, C. G. E. New buildings for the dairy farmer. Agr. Inst. Rev. 5(5):23-26. Sept.1950. 7 Ag8

6839 DUDLEY, A. Housing for your horse. West. Horseman 15(11):12-13,33-35. Nov.1950. 42.8 W522

6840 GINGLES, R. Milking parlors in the South. Hoard's Dairyman 95:707. Oct.10,1950. 44.8 H65

6841 GOTHERSTROM, R. Fire prevention safeguards for barns. (In Swedish.) Lantmannen 34:728-730. Sept.23,1950. 11 L234

6842 GRANT, E. C. Experiences with pen stabling. Rur. New-Yorker 100:699. Oct.7,1950. 6 R88

Dairy barn and milking parlor.

6843 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. AGRICULTURAL LAND SERV. Cowhouses in modern practice. Gt. Brit. Agr. Land Serv. Fixed Equip. Farm. L. 1,10 p. Feb.1950. 10 G7944

6844 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. AGRICULTURAL LAND SERV. Farm dairies. Gt. Brit. Agr. Land Serv. Fixed Equip. Farm. L. 3,12 p. May 1950. 10 G7944

Buildings and equipment.

6845 HECKL, R. Das stallfenster—die grundlage von licht und luft im stall; die bemessung der fensterfläche. Österr. Landtech. 3:128-131. May 1950. 58.8 L236

6846 HESS, H. Offen-ställe. 2. Grüne 78:1095-1113. Oct.6,1950. 17 Sch9

6847 HOUT, F. VAN. Un precieux facteur de santé et de rendement; le poulailler: considerations générales. Cour. Hort. 12:560-561. Oct.1950. 80 C834

6848 JARNAGIN, R. A. Aluminum for the poultry house. Natl. Co. Agent & Vo-Ag Teacher 6(10):19. Oct.1950. 275.28 N213

6849 LEKKERKERKER, P. J. On the possibilities for keeping our chicks warm. (In Dutch.) Pels en Pluim 5(7):7. Apr.7,1950. 47.8 P36

6850 LOCKENVITZ, K. Taubenhäuser, wie wir sie uns wünschen. Kleintierzüchter Tierbörse 4(39):2. Aug. 12,1950. 49 K672

6851 MCIVER, W. L. Upkeep of housing for domestic poultry. New Zeal. J. Agr. 81:143-144. Aug.1950. 23 N48J

6852 MARCHETTANO, E. Mountain pasture problems; cattle shelters. (In Italian.) Allevatore 6(29):1. July 23,1950. 49 AL55

6853 MISSOURI UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Plans for combination milk house & milking barn. Mo. Agr. Col. Ext. Plan 8-723-C1. chart. n.d. 275.29 M69PL

6854 MORGAN, G. 9,000 pullets reared in this all-metal yard. Poultry [London] 107:170. Aug.29,1950. 47.8 P869

6855 PEEL, R. A. Teddy houses and their uses. Canad. Poultry Rev. 74(10):7-8. Oct.1950. 47.8 C16

6856 PERNU, L. O. Pelter pen idea has many advantages. Amer. Natl. Fur & Mkt. J. 29(3):11-12,15. Oct.1950. 412.629 Am3M

Also in Natl. Fur News 22(9):27,34. Oct.1950. 412.628 R59

6857 PINHEIRO, P. V. The value of flooring in poultry raising. (In Portuguese.) Seleç. Agr. 5(52):16. Aug.1950. 9.2 Se4

Wood flooring.

6858 RAMSEY, R. My experiences with pen stabling. Holstein-Friesian World 47:2223,2362-2363. Oct.21,1950. 43.8 H742

6859 SAEFTTEL. Ein-mann-betrieb bei 14 milch-kühen; zeitgemasse forderungen an neue kuhstallgebäude. Molk.-Ztg. [Hildesheim] 4(sup.:Unser Milchvieh Ausg. A 2(8):1-2.) Aug.3,1950. 44.8 M735

6860 SPRAGUE, D. C. Approved grade A dairy milk houses; Wisconsin farmer builds to meet new health regulations. Farm Builder 2(5):7-9. Sept./Oct.1950. 296.8 F222

6861 SPRAGUE, D. C., and EAKIN, E. Sunshine in the dairy barn; drafts, heat losses, dust traps, frosted panes are problems in the dairy barn that proper windows help to eliminate. Amer. Milk Rev. 12(10):92-99. Oct. 1950. 44.8 Am38

6862 STETSON, J. Winter does come; a little ingenuity and forethought will guarantee snug, warm quarters for the outdoor dog. Field & Stream [New York] 55(8): 112-114. Dec.1950. 410 F45

6863 STEVENSON, J. H. F. Building the pens. 2. Brit. Fur Trade 32:368-369. Sept.1950. 412.628 B77

6864 TEARE, D. W. Automatic barn ventilator now on farm market. Capital Co-op 2(10):6. Oct.1950. 335.8 C17

6865 TOMEY, A. Changing quarters. Farmers Wk. [London] 33(11):67. Sept.15,1950. 10 F2226

Winter laying quarters for pullets.

6866 TORP, A. On condensation on walls in livestock buildings. (In Norwegian.) Norsk Landbr. 16:367-369,387-389. Sept.29-Oct.13,1950. 11 N8122

6867 WARD, R. W. Planned pigs bring profits; the wise hog raiser gives them the best of care and good buildings. Farm Builder 2(5):10-11. Sept./Oct.1950. 296.8 F222

#### Farmhouses and Farmsteads

6868 AGLIBUT, A. P., and LIPIO, A. V. A study of rural housing conditions of one hundred families in Angono, Rizal. Philippine Agr. 33:103-110. Oct./Dec.1949. 25 P542

6869 CARTER, D. G., and HINCHCLIFF, K. A rambling ranch-type home for you. Capper's Farmer 61 (10):22,50. Oct.1950. 6 M693

6870 CHRISTENSEN, E. J. Planning the Nebraska farmstead. VI. Nebr. Elect. Farmer 4(10):6. Oct.1950. 335.8 N27

Design for the farmhouse.

6871 CHRISTENSEN, P. Our farmhouses. (In Danish.) Dansk Landbr. 69:402-403. Aug.3,1950. 280.28 V91



- 6872 CIAFFI, B. Economic construction system for farmhouses tried out in the Marches. (In Italian.) *Glor. di Agr.* 60:277. Sept.3,1950. 16 It1G
- 6873 COHLMAYER, R. C. A home to enjoy. *Prog. Farmer, Tex. Ed.* 65(10):18. Oct.1950. 6 T311
- 6874 COLEMAN, S. D. Low-cost, roomy farm home. *Business Farming* 9(7):6-9. Sept.1950. 6 B96
- 6875 DACOMBE, U. Farmhouse transformations follow the Hill Farming Act [Great Britain]. *Farmers Wk. [London]* 33(11):70-74. Sept.15,1950. 10 F2226
- 6876 DILLER, J. D. Reduction of decay hazard in basementless houses on wet sites. U. S. Bur. Plant. Indus., Soils, & Agr. Engin. Div. Forest Path. Forest Path. Spec. Release 30, rev., 4 p. Aug.1950. 1.965 F3F75
- 6877 HARTMANN, B. Für unsere mädels: die schlafstube im bauernhaus. *Württemb. Wchnbl. f. Landwirt.* 117:823-824. Sept.2,1950. 18 W96
- 6878 HARY, P. (HJO). La vivienda rural. *Rev. de Econ. Argentina* 48:73-75. May 1950. 280.8 R325
- 6879 HELDRON, M. What kind of house does Mom want? *Capper's Farmer* 61(10):18,38. Oct.1950. 6 M693
- 6880 HILL, S. Built for good living. *Prog. Farmer, Tex. Ed.* 65(10):81-82. Oct.1950. 6 T311
- 6881 KOEPPNER, R. Raumordnung und nachkriegs-siedlungsplanung in Deutschland. *Gärtnermeister* 53:277-278. Aug.25,1950. 80 G1939
- Includes rural housing.
- 6882 KUSCHKE, B. M., and SMITH, G. H. Rhode Island farmhouses. *R. I. Agr. Expt. Sta. B.* 307,46 p. May 1950. 100 R34S
- 6883 REYNOLDS, L. W. Situation and outlook for consumer goods; housing. Washington, U. S. Bur. Human Nutr. & Home Econ., 1950. 9 p. 1.913 I2R33
- Talk at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.
- 6884 STRAUSS, Der bauer und das Wohnungsamt. *Hannoversche Land- u. Forstwirt. Ztg.* 103:436. (To be cont.) Apr.29,1950. 18 H194
- 6885 WASHINGTON. STATE COLLEGE. EXTENSION SERV. Homes for Washington farms. *Wash. State Col. Ext. C.* 159,2 p. Sept.1950. 275.29 W27C
- 6886 WILEY, E. W. A motion study of kitchen arrangements. *Wash. Agr. Expt. Sta. B.* 518,15 p. Sept.1950. 100 W27E

#### Greenhouses and Plant Service Buildings

- 6887 HUTCHINGS, W. H. L. Market crops need modern types of glasshouses. *Grower [London]* 34:670-671,673. Sept.30,1950. 268.83 M34
- Management.
- 6888 PROCTOR, C. Steam heated houses need more damping. *Grower [London]* 34:719,721. Oct.7,1950. 268.83 M34
- 6889 STOCKWELL, J. A. Simple cooler for mushroom houses. *MGA Bulletin* 21:259-260. Oct.1950. 80 M97
- 6890 TOBERMAN, J. P. Automatic watering with plant glaswicks. *Begonian* 17:213-214,227. Oct.1950. 96.511 B39

#### Materials and Methods

- 6891 SCHOLTEN, J. A., and MOLANDER, E. G. Strength of nailed joints in frame walls. *Agr. Engin.* 31:551-555. Nov.1950. 58.8 Ag83

#### Storage Structures

- 6892 BURGUES, S. A. La importancia del silo en el tambo. I-II. Uruguay. Min. de Ganad. y Agr. B. Inform. 330:8,331:3-4. July 20-27,1950. 9.9 G15B
- 6893 HÄNEL-BOCKELKATHEN, G. Wie ich meinen stahldrahtsilo füllte. *Hannoversche Land- u. Forstwirt. Ztg.* 103:463. May 6,1950. 18 H194
- 6894 HORNSBY, H. Woodford County, Ky., boasts barn which cures tobacco without artificial heat. *West. Tobacco J.* 77(40):11,15. Oct.3,1950. 286.89 W52
- 6895 LARSEN, A. Farm plant for storage and drying of grain. (In Norwegian.) *Norsk Landbr.* 16:389. Oct.13,1950. 11 N8122
- 6896 PERKINS, B. G. Why scoop corn to hogs? Store your crop in these portable crib-feeders out on pasture, and you can get rid of 90% of grain feeding chores. *Farm J.* 74(11):35. Nov.1950. 6 F2212

- 6897 RAEDER, C. E. Construction in the Cornbelt. *Mktg. Activ.* 13(10):10-12. Oct.1950. 1.942 A8M34
- Construction of grain bins.
- 6898 SCOTT, N. J. Storage cellar construction in Canada. *Amer. Nurseryman* 92(8):10. Oct.15,1950. 80 Am371
- For nursery stock.
- 6899 SOLLEDER. Noch ist es zeit zum silobau. *Württemb. Wchnbl. f. Landwirt.* 117:819-820. Sept.2, 1950. 18 W96
- 6900 WITZ, R. L. Manure pits. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:38-39. Ref. Sept./Oct.1950. 100 N813B
- 6901 WOLFF, P. Der "stahlnetz-silo." *Deut. Landwirt. Presse* 73(18):5. Aug.19,1950. 18 D482

#### Walls and Fences

- 6902 BUJAN, J. Reparación de cargadores aereos y electrificación de cercos y alambrados. *Charla Rur.* 141:16-17. (Cont.) July 1950. 9 C37
- Magnetos, dynamos, and rectifiers.
- 6903 DECKMANN, O. Elektrozaun oder stachel-draht. *Hannoversche Land- u. Forstwirt. Ztg.* 103:485-486. May 13,1950. 18 H194
- 6904 GITLIN, H. M., and POMERENE, W. H. Con-tour fencing. *Ohio. Agr. Expt. Sta. Res. C.* 5,11 p. May 1950. 100 Oh3R
- 6905 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. AGRICULTURAL LAND SERV. Catle grids for private farm and estate roads. *Gt. Brit. Agr. Land Serv. Fixed Equip. Farm. L.* 7,10 p. May 1950. 10 G7944
- 6906 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. AGRICULTURAL LAND SERV. Farm fences. *Gt. Brit. Agr. Land Serv. Fixed Equip. Farm. L.* 6,18 p. May 1950. 10 G7944
- Designs and specifications.
- 6907 PEARSON, H. S. New England's stone walls are going! *Rur. New-Yorker* 100:666. Sept.16,1950. 6 R88
- 6908 RAGGI, C. A. Observación sobre instalación de tranqueras. *Argentina. Min. de Agr. Almanaque* 25:76-77. 1950. 9 Ag874

#### FARM UTILITIES

##### Electricity and Electrification

- 6909 ALLISON, B. R. A rural electric co-op looks at TVA. (Extr.) *Rur. Electrifi.* 8(12):30,54. Sept.1950. 335.8 N21
- 6910 ANDREW, F. W. Twenty ways to reduce your electric bill. *Capper's Farmer* 61(10):15,62. Oct.1950. 6 M693
- 6911 BIAKIN, A. S., and others. Puti elektrifikatsii sel'skogo khoziaistva Irkutskoi oblasti [Methods for agricultural electrification in Irkutsk Region]. *Irkutsk, Irkutskoe Obl. Gos. Izd-vo*, 1950. 122 p. 335 B47
- A. P. Mogilev, A. S. Khomkalov, and E. I. Shmigol, joint authors.
- 6912 BRANNAN, C. F. Power means prosperity. *IRECA News* 3(8):3. Aug.1950. 335.8 Io92
- 6913 BRANNAN, C. F. Rural electrification and the American farmer. III. *REA News* 8(4):11. Sept.1950. 335.8 IL62
- 6914 CHAUMIER, P. L'énergie électrique au service de l'agriculture. *Agr. Prat.* 114:404-406. Sept.1950. 14 J82
- 6915 CHRISTIE, T. G. Electricity on farms; the existing position in Northern Ireland explained. *Farmers' J. (n.s.)* 1(12):20-21. Oct.1950. 10 F2234
- 6916 CROSS, E. Electricity for the farmhouse. *Young Farmer* 18:249-250. Sept./Oct.1950. 10 Y8
- Chiefly household equipment.
- 6917 CROWELL, B. Adequate [electric] power helps everyone. *Carolina Farmer* 5(10):8. Oct.1950. 6 C223
- 6918 DAVIS, J. F. Economic studies of farm electrification. *Agr. Engin.* 31:565-568. Nov.1950. 58.8 Ag83
- 6919 DIE ELEKTRIZITÄTSVERSORGUNG der land-wirtschaft. *Landtechnik* 5:685-689. Oct.15,1950. 58.8 L235



6920 GARDNER, P. Good wiring keeps you out of trouble. *Farmer's Mag.* 47(9):55-56. Sept.1950. 7 C165

6921 GOTTLIEB, W. H. Dual-fuel unit in constant service leads REA system in fuel economy. *Diesel Prog.* 16(10):55-57. Oct.1950. 291.8 D56

6922 GRANBERG, W. J. Rural power program aided by gas Diesel engines. *Diesel Prog.* 16(10):41. Oct.1950. 291.8 D56

Electrification.

6923 HAGGARD, G. W. Present status of the REA. Washington, U. S. Rur. Electr. Admin., 1950. 6 p. 1.933 H12

Talk at NRECA Regional Conferences, 1950.

6924 HUTCHINSON, K. T. Expanding rural electrification opens new era. *Carolina Farmer* 5(9):20. Sept. 1950. 6 C223

6925 LOUISIANA. STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE. DIV. OF AGRICULTURAL EXTENSION. 4th annual 4-H farm and home electric program for Louisiana. Baton Rouge? Feb.1950. 275.29 L93Ep

6926 LUCAS, S. W. Rural electrification in this emergency. *Rur. Ga.* 5(10):2. Oct.1950. 335.8 R887  
Similar title in *Texas Co-op Power* 7(4):3. Oct.1950. 335.8 T31

6927 MCCURLEY, J. B. The Rural Electrification Administration program in the Missouri Basin. Washington, U. S. Rur. Electr. Admin., 1950. 12 p. 1.933 M13  
Talk at Minot, N. Dak., Oct. 5, 1950.

6928 MEZERIK, A. G. Electricity comes to the Ozarks; great opportunities for industrial development are in vast sections of Arkansas, Oklahoma and Missouri where replacement of marginal farms by modern agriculture brings flood of people from rural areas into the towns and cities. *Sales Mangt.* 65(9):90,92,94. Nov.1, 1950. 280.38 Sa3

Arkansas, Oklahoma, and Missouri.

6929 MORPHETT, A. E. Electricity supply to rural areas. *Grower [Adelaide]* 4(12):25. June 1950. 80 G912  
In South Australia.

6930 REYNOLDS, P. A. Wiring a farm for electricity; practical guidance to methods and materials. *Power Farmer* 5(5):68-69. Nov.1950. 58.8 P872

6931 SCHNUG, M. Wiring with foresight. *Country Gent.* 120(10):154-155. Oct.1950. 6 C833

6932 THIEL, E. Die elektrifizierung der Sowjetunion. *Z. f. Raumforsch.* 1950:176-184. 282.8 Z3  
Includes agricultural electrification.

6933 TYNES, R. A. Southwest co-ops go to 14.4/25-kv distribution system. *Elect. World* 134(17):102-104. Oct.23,1950. 335.8 EL2

6934 U. S. RURAL ELECTRIFICATION ADMIN. Assuring member participation. U. S. Rur. Electr. Admin. Suggested Co-op. Electr. Adv. Training Outline 107,20 p. 1950? 1.933 Su392

6935 U. S. RURAL ELECTRIFICATION ADMIN. Electricity comes to rural America. U. S. D. A. PA-109, 24 p. June 1950. 1 Ag84Pro

6936 U. S. RURAL ELECTRIFICATION ADMIN. 1949 annual statistical report. Washington, 1950. 123 p. 1.933 F49

Statistical information about the REA program and the operations of the REA borrowers.

6937 U. S. RURAL ELECTRIFICATION ADMIN. Printed publications available. Washington, 1950. 3 p. 1.933 R888

6938 U. S. RURAL ELECTRIFICATION ADMIN. Report on the Henry phase converter. Washington, 1950. 2 p. 1.933 R2922

6939 WALKER, M. W. Solving the maintenance problem. *Rur. Electr. News* 16(3/4):14-15,22. Oct./Nov.1950. 173.2 R88Ru

Maintenance of electric distribution lines.

6940 WESTINGHOUSE ELECTRIC & MANUFACTURING CO. 4-H electric program; demonstration handbook. Pittsburgh, 1949. 31 p. 335 W522Fo

6941 WRIGHT, F. B. Electricity in the home and on the farm. Ed. 3. New York, Wiley, 1950. 380 p. (Wiley Farm Ser.) 335 W932

#### Heating, Lighting, and Radiation

6942 GRICE, R. Electric water heaters in milking sheds. *New Zeal. J. Agr.* 81:117-118. Aug.1950. 23 N48J

6943 KEPNER, R. A. Orchard heater smoke lessened; smokiness of old-style orchard heaters can be reduced by proper operation and maintenance. *Calif. Agr. [Calif. Sta.]* 4(10):3,14. Oct.1950. 100 C12Cag

6944 PIANA, G. On the use of the infrared lamp in rearing chicks. (In Italian.) *Riv. di Zootec.* 23:228-230. July 1950. 49 R52

6945 YARICK, B. E. Effects of management on orchard heaters. *Citrus Leaves* 30(10):14. Oct.1950. 80 C492

#### Power Plants, Motors and Engines on the Farm

6946 CISNEROS, L. Un nuevo combustible: el gas de estiércol. *Agricultura [Madrid]* 19:335-338. July 1950. 15 Ag84

Chiefly on manufacture.

6947 KELCEY, P. F. Electric motors for barn machinery. *Brit. Farm Mech.* 2:342-344. Sept.1950. 55.8 B772

6948 VAN DEN HEEVER, D. J. A farmer and his engine. (In Afrikaans.) *Landbouweekblad* 32(1629):19. Oct.4,1950. 24 L232

6949 WICKARD, C. R. The right of farmers to supply their own power needs. Washington, U. S. Bur. Electr. Admin., 1950. 6 p. 1.91 A2W63

Talk at ceremonies dedicating a steam generating plant of the Corn Belt Power Cooperative, Humboldt, Iowa, Oct. 10, 1950.

#### Sewage and Waste Disposal

6950 DAWES, J. C. Recolección y disposición de basuras domésticas incluso desperdicios de comida. *Ofic. Sanit. Panamer. B.* 29:847-867. Aug.1950. 449.9 P192B

6951 SOBRERO, L. R. Instalación de la cámara séptica. *Argentina. Min. de Agr. Almanaque* 25:341-344. 1950. 9 Ag874

#### Telephones

6952 REED, J. S. Rebuilding the rural outside plant. XI. Fortnightly Telephone Engin. 11(10):40-43,46. Oct.1950? 335.8 F77

6953 REED, J. S. Rebuilding the rural outside plant. XII. Telephone Engin. & Mangt. 54(11):30-32,53-54. Nov.1950. 335.8 T232

6954 WICKARD, C. R. The REA telephone program. *Telephony* 139(17):45-46,111-112. Oct.21,1950. 335.8 T23

6955 WICKARD, C. R. A year of the REA telephone program. Washington, U. S. Bur. Electr. Admin., 1950. 5 p. 1.91 A2W63

Talk before Independent Telephone Association meeting in Chicago, Oct. 11, 1950.

#### Water Supply

6956 GARLAND, J., and WITZ, R. L. Above ground pump houses. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:31-34. Sept./Oct.1950. 100 N813B

6957 GOOCH, J. W. Pond filter gives new water source. *Capper's Farmer* 61(11):17,26-27. Nov.1950. 6 M693

6958 GRUBINGER, H. Pumpanlagen und rohrlösungen. *Osterr. Landtech.* 3:138-140. May 1950. 58.8 L236

6959 HAGEN, E. G. The water problem in rural districts. (In Norwegian.) *Landbrukstidende* 56:666. Aug.23,1950. 11 L236

6960 HOSFORD, J. Soft water—the extra hired hand. *Hoard's Dairyman* 95:684,712-713. Oct.10,1950. 44.8 H65

6961 KEDDE, D. L. The drinking water supply on the farms. (In Dutch.) *Nederlands Melk- en Zuivel-tijdschr.* 4:125-132. Apr./June 1950. 44.8 N283  
Discussion, p. 136-138.

6962 RIJSEWIJK, J. VAN. The water supply on the farm. (In Dutch.) *Nederlands Melk- en Zuivel-tijdschr.* 4:132-136. Apr./June 1950. 44.8 N283  
Discussion, p. 136-138.

6963 ROWE, J. A. The relation of interested agencies and organizations in the planning and execution of water development programs. *Calif. Mosquito Control Assoc. Proc. & Papers* 18:42-44. 1950. 428 C763

6964 VENKATARAMANAN, K. Water-divining—ancient and modern. *India. Cent. Bd. Irrig. J.* 7:187-190. Ref. Mar.1950. 55.9 In222C



AGRICULTURAL PRODUCTS: PROCESSING,  
DISTRIBUTION, AND STATISTICS

GENERAL

- 6965 ANDREWS, S. Food and the restoration of peace. Washington, U. S. Foreign Agr. Relat., 1950. 5 p. 1.943 An2  
Summary of remarks before meeting of the Nebraska-Iowa District Kiwanis Club, Ames, Sept. 12, 1950.
- 6966 ASSOCIAÇÃO COMERCIAL DO AMAZONAS. Relatório da diretoria, 1948-1949 [Report of the directory, 1948-1949]. Manaus, 1950. 327 p. 286.9 As7  
Includes the raw materials industry.
- 6967 BALDUCCI, A. Supplies and tickets. (In Italian.) Terra [Firenze] 61(32):1,3. Aug. 6, 1950. 16 T274  
Food problems in the event of a third world war.
- 6968 BOLHUIS, G. G. Some aspects of the production of food plants in Java and Sumatra in the period 1921-1941. (In Dutch.) (Sum.) Landbk. Tijdschr. 62:561-562. July 1950. 105.2 Or3
- 6969 BRANNAN, C. F. Food in the nation's mobilization. Washington, U. S. D. A., Off. Sec., 1950. 12 p. 1.91 A2B73  
Talk before National Association of Food Chains, Cincinnati, Oct. 17, 1950.  
Food prospects and prices.
- 6970 BROMFIELD, L. Enough food to feed the whole world; possible ways of increasing production. Farmer's Wk. [Bloemfontein] 80:10-11. Sept. 20, 1950. 24 F225
- 6971 CASTRO SILVA, J. M. Agricultura, selvicultura, ganadería y pesca. Managua. Cár. Nac. de Com. e Indus. B. (ser. 4) 16(164):13-15. (Cont.) Aug. 1950. 287 M316  
Agricultural products of Nicaragua.
- 6972 CONFEDERAZIONE GENERALE DELL'INDUSTRIA ITALIANA. Annuario 1950 [1950 annual]. Roma, 1950. 970 p. 280.9 C7613  
Contains chapters on agriculture and the textile, wood, and food industries.
- 6973 CORONAT, F. Les perspectives du marché des matières premières. III. Agence France-Presse. Inform. et Doc. 309:8-12; 311:21-25; 312:20-23. Sept. 16, 30, Oct. 7, 1950. 280.9 Ag3
- 6974 FITZRANDOLPH, C. T. Maritime Food Council review of program and policy. Annapolis Val. Post Road 5(8):4,6. Aug. 1950. 7 An7
- 6975 FOOD from the Commonwealth. II. Food Mfr. 25:409-412. Oct. 1, 1950. 389.8 F736
- 6976 FRENCH, P. C. One extra bowl of rice is food for politics. Co-op Grain Q. 8(3):8-9. Sept. 1950. 280.28 C7898  
Far East.
- 6977 FRIEDENSBURG, F. Die rohstoffwirtschaftlichen Grundlagen und Aufgaben des Schuman-plans. Deut. Inst. f. Wirtforsch. Vrtljahr. z. Wirtforsch. 3:169-182. 1950. 280.9 B452
- 6978 FRIEDLAND, G. Controls held unnecessary; scare buying is assailed as U. S. bulges with food. Butchers' Advocate 128(12):14-15. Sept. 20, 1950. 286.85 B97
- 6979 GIORGIS, P. DE. Italian food balance and exports. (In Italian.) Mercato 5(36):1,6. Sept. 16, 1950. 286.8 M534
- 6980 GRAVES, P. Food and people, an UNESCO project. Ala. Tuskegee Inst. Serv. 15(4):11. Nov. 1950. 280.8 Se62
- 6981 HARRIS, R. S., and MUNSELL, H. E. Edible plants of Central America. J. Home Econ. 42:629-631. Oct. 1950. 321.8 J82
- 6982 HARVEST and business; bountiful crops in the making; general business conditions brisk; a Commercial West survey. Com. West 100(12):9-21. (To be cont.) Sept. 23, 1950. 286.8 C733
- 6983 HARVEY, G. R. Population increase may mean race for food. Hoosier Farmer 35(9):40,45. Sept. 1950. 280.82 H76
- 6984 HUNT, K. E. Supplies and prices: notes and statistics. Farm Econ. 6:213-220. Aug. 1950. 281.8 F223  
Great Britain.
- 6985 IOWA. DEPT. OF AGRICULTURE. DAIRY AND FOOD DIV. Sixty-third annual report for the year ending December 31, 1949. Des Moines, 1950. 101 p. 2 I9B
- 6986 ISHAQUE, H. S. M. Food situation in Asia. Karachi Com. 2(51):5-6. Nov. 12, 1949. 280.8 K14
- 6987 KAMER VON KOOPHANDEL EN FABRIEKEN VOOR ZUID-HOLLAND. Jaarverslag 1949 [Annual report 1949]. Rotterdam, 1950. 599 p. 287 R742J  
Contains data on the agricultural products industries.
- 6988 KAPNER, S. Food and people. I. Too many people? Agr. & Indus. Life 12(8):2-3, 27. Aug. 1950. 25 Ag8
- 6989 KOREA (REPUBLIC) MINISTRY OF AGRICULTURE AND FORESTRY. The food situation in South Korea. Seoul? 1950? 11 p. 389 K842
- 6990 LADEJINSKY, W. I. The food supply of India. Co-op Grain Q. 8(3):20-23. Sept. 1950. 280.28 C7898
- 6991 MACKINTOSH, H. Industrial mobilization and its probable effect upon the food industry. Food Technol. 4:379-381. Oct. 1950. 389.8 F7398
- 6992 MATHEW, A. V. Food production and distribution. Planters' Chron. 45:379-380. July 15, 1950. 22 P693  
India.
- 6993 MOSSEL, D. A. A., and TOLLENAAR, F. D. Food and nutrition. VII. (In Dutch.) Voeding 11:352-364. Ref. Sept. 15, 1950. 389.8 V85
- 6994 MUDIAPPAHPILLAI, J. C. A world-wide service. Marketing 2(2):10. July 1950. 280.38 M349  
Food relief.
- 6995 THOMAS, G. C. Partners for progress. (Condensed.) Prog. Res. 5:10-13. Fall 1950. 470 P943  
Research in the food industry.
- 6996 ULIN, R. Get ready for 1960 food demands; trends already apparent point to a food consumption pattern through the '50s that will require important production adjustments come war or no war. Food Indus. 22:1681-1682. Oct. 1950. 389.8 F737
- 6997 U. S. EXTENSION SERV. An educational program on food and people. Washington, 1950. 3 p. 1.913 A2Ed84
- 6998 VLIET, N. VAN. Asia o Africa? Serfa muy difícil substituir a Asia como productor de materias primas. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(11):23-30. May 1950. 9 Ar35
- 6999 VOZNESENSKII, E. P. Bukhgalterskii uchët v predpriiatiiakh pishchevoi promyshlennosti [Bookkeeping in food industry plants]. Moskva, Pishchepromizdat, 1950. 173 p. 389 V94
- 7000 WALSH, M. C. Situation and outlook for consumer goods; food. Washington, U. S. Bur. Human Nutr. and Home Econ., 1950. 5 p. 1.982 E2W16  
Talk at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.
- 7001 WILLIS, P. S. Sales picture bright for fall. South. Calif. Grocers J. 37(36):112-113. Sept. 22, 1950. 286.28 So82
- 7002 WILSON, M. L. Facts are important now. Agr. Leaders' Digest 31(8):21-23. Sept. 1950. 275.28 Am3  
Food and agricultural outlook.
- 7003 WOODS, D. E. The one-horse laboratory. (Abs.) Canad. Food Indus. 21(10):31, 33. Oct. 1950. 286.83 C166

ANALYSIS AND COMPOSITION

- 7004 ALEXANDER, J., ed. Colloid chemistry, theoretical and applied, v. 7. New York, Reinhold, 1950. 736 p. 386 AL22C
- 7005 BENNETT, H. P. Report on formaldehyde. Assoc. Off. Agr. Chem. J. 33:685-687. Aug. 15, 1950. 381 As7
- 7006 CARTER, R. H. Report on determination of DDT in plant and animal materials. Assoc. Off. Agr. Chem. J. 33:597-599. Aug. 15, 1950. 381 As7
- 7007 COOK, J. W. Report on enzymes. Assoc. Off. Agr. Chem. J. 33:745. Aug. 15, 1950. 381 As7
- 7008 FLYNN, L. M. Report on folic acid. Assoc. Off. Agr. Chem. J. 33:633-644. Aug. 15, 1950. 381 As7
- 7009 FRYD, C. F. M. The determination of moisture in organic substances. IV. Food Mfr. 25:413-415. Oct. 1, 1950. 389.8 F736  
Includes food.
- 7010 GOT, N. La dégustation; la dégustation des vins, des boissons et des produits alimentaires. Perpignan, 1950. 93 p. 390.1 G71D



- 7011 GUZMAN BARRÓN, A., and PAYVA CARBAJAL, C. El hierro ionizable en los alimentos peruanos. Soc. Quím. del Peru. B. 16:33-41. Ref. Mar.1950. 385 So15
- 7012 HARRIS, K. L. Report on extraneous materials in foods and drugs. Assoc. Off. Agr. Chem. J. 33:548-549. Aug.15,1950. 381 As7
- 7013 HARRISON, S., and ELDER, L. W. Some applications of statistics to laboratory taste testing. Food Technol. 4:434-439. Nov.1950. 389.8 F7398
- 7014 HART, F. L. Report on gums in foods. Assoc. Off. Agr. Chem. J. 33:741. Aug.15,1950. 381 As7
- 7015 HAUROWITZ, F. Chemistry and biology of proteins. New York, Academic Press, 1950. 374 p. 386.2 H29C
- 7016 HELBERG, E. Zur untersuchung von brot, milch- und magermilchbrot. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hyg. 41:373-380. 1950. 389.9 Sw6
- 7017 HIDALGO GRANADOS, A. Determinaciones de la vitamina B<sub>1</sub> mediante test con levaduras. Agros [Lisboa] 1(2):7-9. (Concl.) Feb.1950. 58.8 Ag87
- 7018 JABLONSKI, C. F. Report on coloring matters in foods. Assoc. Off. Agr. Chem. J. 33:517-521. Aug.15, 1950. 381 As7
- 7019 KAMAL, S., and TURNER, C. W. Electrophoretic studies of commercial and iodinated casein. (Abs.) Co-op. & Mktg. Rev. 4:250-251. July 1950. 280.28 C78243
- 7020 KLEIN, A. K. Report on cadmium. Assoc. Off. Agr. Chem. J. 33:592-593. Aug.15,1950. 381 As7
- 7021 KLEIN, A. K. Report on mercury. Assoc. Off. Agr. Chem. J. 33:594-597. Aug.15,1950. 381 As7
- 7022 KLINE, O. L. Report on nicotinic acid (niacin) or nicotinamide (niacin amide). Assoc. Off. Agr. Chem. J. 33:644-645. Aug.15,1950. 381 As7
- 7023 KLINE, O. L. Report on vitamin B<sub>1</sub> (thiamine). Assoc. Off. Agr. Chem. J. 33:630-631. Aug.15,1950. 381 As7
- 7024 LANGE, W. Cholesterol, phytosterol, and tocopherol content of food products and animal tissues. Amer. Oil Chem. Soc. J. 27:414-422. Ref. Nov.1950. 307.8 J82
- 7025 LOY, H. W., JR. Report of riboflavin riboflavin (vitamin B<sub>2</sub>): fluorometric method. Assoc. Off. Agr. Chem. J. 33:632. Aug.15,1950. 381 As7
- 7026 LOY, H. W., JR. Report on riboflavin (vitamin B<sub>2</sub>): microbiological method. Assoc. Off. Agr. Chem. J. 33:631-632. Aug.15,1950. 381 As7
- 7027 MCROBERTS, L. H. Report on mold inhibitors, propionates. Assoc. Off. Agr. Chem. J. 33:677-684. Aug.15,1950. 381 As7
- 7028 MATHIS, W. T. Report on spectrographic methods. Assoc. Off. Agr. Chem. J. 33:830-832. Aug.15,1950. 381 As7
- 7029 MICHEL, G., and MARON, N. Détermination polarographique du cuivre, du plomb et du zinc dans les gélatines alimentaires, techniques et photographiques. Analyt. Chim. Acta 4:542-550. Ref. Oct.1950. 381 An1
- English summary.
- 7030 MUNSELL, H. E., and others. Composition of food plants of Central America. IV-VI. Food Res. 15:263-296,355-365,379-404. July/Aug.-Sept./Oct.1950. 389.8 F7322
- L. O. Williams, L. P. Guild, L. T. Kelley, A. M. McNally, R. S. Harris, C. B. Troesch, and G. Nightingale, joint authors.
- Contents: IV. El Salvador; V. Nicaragua; VI. Costa Rica.
- 7031 NICHOLSON, J. F. Report on extraneous materials in baked products, cereals, and confectionery. Assoc. Off. Agr. Chem. J. 33:551-552. Aug.15,1950. 381 As7
- 7032 OAKLEY, M. Report on preservatives and artificial sweeteners. Assoc. Off. Agr. Chem. J. 33:664-666. Aug.15,1950. 381 As7
- 7033 OGILVY, W. S., BURKE, M. V., and AYERS, J. C. A practical method for controlling atmospheres for use in food research. Food Res. 15:343-346. Sept./Oct. 1950. 389.8 F7322
- 7034 PATTERSON, W. I. Report on decomposition and filth in foods (chemical indices). Assoc. Off. Agr. Chem. J. 33:707-709. Aug.15,1950. 381 As7
- 7035 PEARCE, J. A. Fluorescence changes in solutions of glucose and glycine and of acetaldehyde and ammonia. Food Technol. 4:416-419. Oct.1950. 389.8 F7398
- In food research.
- 7036 PERYAM, D. R., and SWARTZ, V. W. Measurement of sensory differences. Food Technol. 4:390-395. Oct.1950. 389.8 F7398
- In flavor measurement.
- 7037 QUACKENBUSH, F. W. Report on carotene. Assoc. Off. Agr. Chem. J. 33:647-651. Aug.15,1950. 381 As7
- 7038 RAMSEY, L. L., and HESS, S. M. Collaborative study of a chromatographic method for the volatile fatty acids. Assoc. Off. Agr. Chem. J. 33:848-854. Aug.15,1950. 381 As7
- In food.
- 7039 RAMSEY, L. L., and CLIFFORD, P. A. Report on sodium fluoroacetate (1080). Assoc. Off. Agr. Chem. J. 33:608-610. Aug.15,1950. 381 As7
- 7040 SECOR, G. E., and others. The Friedrich microkjeldahl method for nitrogen. Assoc. Off. Agr. Chem. J. 33:872-880. Ref. Aug.15,1950. 381 As7
- M. C. Long, M. D. Kilpatrick, and L. M. White, joint authors.
- 7041 SHU, P. Estimation of reducing sugars in starch hydrolyzates by paper chromatography. Canad. J. Res. Sect. B, Chem. Sci. 28:527-534. Ref. Sept.1950. 470 C16B
- 7042 SLOCUM, G. G. Report on microbiological methods. Assoc. Off. Agr. Chem. J. 33:742-743. Aug.15, 1950. 381 As7
- 7043 STAMMER, W. C. Report on copper in foods. Assoc. Off. Agr. Chem. J. 33:607-608. Ref. Aug.15,1950. 381 As7
- 7044 STORVICK, C. A. Johan G. C. T. Kjeldahl; his method for determining total nitrogen. Amer. Dietet. Assoc. J. 26:799-801. Ref. Oct.1950. 389.8 Am34
- 7045 TOLLE, C. D. Report on vitamins. Assoc. Off. Agr. Chem. J. 33:611-612. Aug.15,1950. 381 As7
- 7046 TROITSKIĬ, V. M. Convenient method for burning plant and animal material for determination of nitrogen and ash minerals. (In Russian.) Sovet. Zootekh. 4(6):94-95. June 1950. 49 So822
- 7047 ULMANN, M. Zur chromatographie der löslichen stärke. Kolloid Z. 116:10-18. Jan.1950. 384 Z315
- 7048 WICHMANN, H. J. Report on metals, other elements, and residues in foods. Assoc. Off. Agr. Chem. J. 33:585-591. Aug.15,1950. 381 As7
- Insecticidal residues.
- 7049 WILKIE, J. B. Report on vitamin A. Assoc. Off. Agr. Chem. J. 33:613-615. Aug.15,1950. 381 As7
- 7050 WILSON, J. B. Report on monochloroacetic acid. Assoc. Off. Agr. Chem. J. 33:674-677. Aug.15, 1950. 381 As7
- 7051 WILSON, J. B. Report on quaternary ammonium compounds in foods (including eggs). Assoc. Off. Agr. Chem. J. 33:666-670. Aug.15,1950. 381 As7
- 7052 WINKLER, W. O. Report on thiourea in foods. Assoc. Off. Agr. Chem. J. 33:684-685. Aug.15,1950. 381 As7
- 7053 WISS, O. Mikrobiologische vitamin- und aminsäurebestimmungen. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hyg. 41:225-258. Ref. 1950. 389.9 Sw6

## CONSUMPTION AND UTILIZATION

- 7054 BAXTER, G. A. More frozen foods for GI Joe. (Excerpts.) Canner 111(16):12-13. Oct.21,1950. 286.83 C16
- 7055 JOGLAR RODRÍGUEZ, F. Los residuos de las cosechas tienen valor. Lucha 2(15):5,7. Sept.1950. 280.28 L96
- 7056 KIME, J. A. The advancing utilization of Southern farm crops. New Orleans, U. S. South. Region. Res. Lab., 1950. 7 p. 1.9321 S2K57
- Presented at meeting of the Texas Agricultural Workers Association, Galveston, Jan. 13-14, 1950.
- 7057 PERYAM, D. R. How QM maps the food acceptance salient. Food Indus. 22:1910-1913,2009,2011. Nov.1950. 389.8 F737
- 7058 SCHWITZER, M. K. Fifteen years of chemurgy. World Crops 2:423-426. Oct.1950. 281.8 W892



- 7059 SCOTT, R. C. An analysis of frozen food purchases in three New York areas. N. Y. (Cornell) Agr. Expt. Sta. B. 861,31 p. Sept.1950. 100 N48C
- 7060 TOBIN, J. A statistical demand function for food in the U.S.A. Roy. Statist. Soc. J. Ser. A, Gen. 113: 113-149. Ref. 1950. 251 R81J  
Includes discussion.
- 7061 U. S. BUR. OF AGRICULTURAL ECONOMICS. Consumption of food in the United States, 1909-48. U. S. D. A. Misc. P. 691(sup.),41 p. Sept.1950. 1 Ag84M
- 7062 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Food consumption trends in Birmingham, Ala., 1935, 1946, & 1948. U. S. Bur. Human Nutr. & Home Econ. Spec. Rpt. 1,19 p. Oct.1950. 1.982 A2F7382
- 7063 U. S. BUR. OF THE CENSUS. Census of manufactures: 1947, v. 1. General summary. Washington, 1950. 355 p. 157.41 C3386  
Contains statistics of agricultural products consumed in industry.
- DISTRIBUTION, MARKETING, AND TRANSPORTATION**
- 7064 AMERICAN MARKETING ASSOCIATION. National roster 1950-51. Chicago, 1950. 312 p. 119 Am34
- 7065 BAGGE, F. Farm marketing during the second quarter of 1950. (In Swedish.) Lantmannen 34: 674-676. Sept.2,1950. 11 L234
- 7066 BEVAN, L. A. The Extension Marketing Committee and the Research and Marketing Administration. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63: 121-122. 1950. 4 As7
- 7067 BOSTON CONFERENCE ON DISTRIBUTION. Twenty-second annual, 1950. Boston, 1950. 124 p. 286.29 B65  
Contains messages from C. F. Brannan, and N. E. Dodd.
- 7068 BRANSOME, E. D. The role of motor transport in the distribution of goods. Boston Conf. Distrib. 22:35-38. 1950. 286.29 B65
- 7069 BUTLER, K. D. What America eats makes the market. Boston Conf. Distrib. 22:57-60. 1950. 286.29 B65
- 7070 BYRNE, R. J. Coordinating transportation improves marketing and purchasing for Minnesota cooperatives. U. S. Farm Credit Admin. B. 57,64 p. May 1950. 166.2 B87
- 7071 CALIFORNIA. BUR. OF MARKETS. Annual report for the calendar year 1949. Sacramento? 1950. p.365-459. 280.39 C128
- 7072 CALIFORNIA GROCERS ASSOCIATION. Annual report delivered at 51st annual convention, Coronado, California, September 25, 1950. South. Calif. Grocers J. 37(36):22,116,124-125. Sept.22,1950. 286.28 So82  
Food marketing.
- 7073 CANDIOLI, P. The market for agricultural products. (In Italian.) Colt. e Gior. Vinc. Ital. 96:217-218. Aug.15/30,1950. 16 C72
- 7074 COLLIER, S. G. Marketing schemes to improve food distribution; British producers suggest new plan. Madras J. Co-op. 42:65-67. Aug.1950. 280.28 M26
- 7075 CROW, W. C. Boston market plans take-shape. Mktg. Activ. 13(9):3-5. Sept.1950. 1.942 A8M34
- 7076 DAVIS, L., and ESHBACH, C. E. Extension work in consumer food marketing education. U. S. D. A. PA-131,11 p. Sept.1950. 1 Ag84Pro
- 7077 DAVIS, L. The use of visual aids in consumer education in the marketing program. Washington, U. S. Ext. Serv., 1950. 9 p. 1.913 V2Us2  
Talk at the American Home Economics Association meeting, Boston, July 14, 1950.
- 7078 DICKINS, D. Home economics research in marketing. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:235. 1950. 4 As7
- 7079 DIXON, H. M. Marketing program of the Agricultural Extension Service. (Sum.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:131-132. 1950. 4 As7
- 7080 ELLIG, G. An encouraging note for LCL [less-than-carload] shippers. Quick Frozen Foods 13(3): 57,60. Oct.1950. 389.8 Q4  
Frozen food transportation.
- 7081 FOSTER, R. L. A century-old farmers' market. Capper's Farmer 61(11):20,27. Nov.1950. 6 M693  
Fort Wayne, Indiana, Farmers' Market.
- 7082 GROOTJANS, A. Un plan comptable pour le commerce de gros en alimentation. Vivres 5(9):15-17; (10):17-18. (Cont.) Sept.-Oct.1950. 389.8 V832
- 7083 HARRON, R. V. Reviewing transportation costs on frozen foods. Quick Frozen Foods 13(3):52,54. Oct.1950. 389.8 Q4
- 7084 HENNIGAR, P. T. Quartermaster procurement of frozen foods. (Excerpts.) Canner 111(17):16. Oct.28,1950. 286.83 C16
- 7085 HICKEY, D. G. Transportation problems and trends of 1950. Quick Frozen Foods 13(3):53-54. Oct. 1950. 389.8 Q4  
Frozen foods.
- 7086 HUME, D. L. An increasingly important customer; an explanation of the set-up and workings of the [Army] Quartermaster Market Center System. Amer. Egg & Poultry Rev. 11(10):26,28,30,32. Oct.1950. 47.8 Am38
- 7087 JOHANNESBURG. PRODUCE MARKET. Annual trading results 1949-1950. Johannesburg, 1950. 11 p. 280.39 J59  
Text in English and Afrikaans.
- 7088 JOHNSON, B. E. Frozen foods save time; tests show advantages of modern merchandising. Prog. Agr. Ariz. 2(3):4. Oct./Dec.1950. 6 P9452
- 7089 JOHNSTONE, W. F. Aim to hit the market. Pa. Farm Econ. 39:2-5. July 1950. 275.29 P382Pf  
Marketing during the high-price periods.
- 7090 LECKIE, H. K. Canada's marketing puzzle. Farm Policy Forum 3(9):27-29. Sept.1950. 281.8 F2274
- 7091 MAITAN, D. Agricultural products of the South and domestic and foreign markets for them. (In Italian.) In Milan. Istituto per gli Studi di Economia. Il problema agrario del Mezzogiorno, p. 22-36. Milano, Istituto Editoriale Italiano, 1950. 281.176 M58  
Italy.
- 7092 MORANDINI, E. Agricultural producers and the reform of the wholesale markets. (In Italian.) Mezzogiorno Agr. 6(37):1-2. Sept.24/30,1950. 16 M57
- 7093 MORANDINI, E. The new regulation for wholesale marketing certainly and deeply interests farmers. (In Italian.) Agenzia Romana Note e Inform. Agr. 59:1-3. Sept.9,1950. 281.8 Ag3
- 7094 NELSON, J. B. Consumers learn marketing by radio, TV. Ext. Serv. Rev. 21:148,155. Sept.1950. 1 Ex893Ex
- 7095 OTHMER, D. F. Reflex—the new, economical reefer system. 1. Frosted Food Field 11(3):3. Sept. 1950. 389.8 F922  
Box cars.
- 7096 PENROSE, G. L., FULLER, L. T., and SHARKEY, J. B. Transportation spells markets. Oreg. Dept. Agr. B. 167:16-19. Sept.1950. 2 Or3  
Transportation by rail and truck in Oregon.
- 7097 POE, W. D. Earn bigger profits by better marketing. Prog. Farmer, Carolinas-Va. Ed. 65(10):22, 131. Oct.1950. 6 P945
- 7098 POTOMAC GRANGE NO. 1, PATRONS OF HUSBANDRY, WASHINGTON, D. C. Constructive policies affecting commodity exchanges; report by a special committee. Washington, 1949. 4 p. 284 P84C  
Includes Addenda.
- 7099 POTOMAC GRANGE NO. 1, PATRONS OF HUSBANDRY, WASHINGTON, D. C. Rural road policies; report by a special committee. Washington, 1949. 4 p. 288 P84
- 7100 SAVILLE, G. Early claim is needed for rail damage. Grower [London] 34:625. Sept.23,1950. 286.83 M34  
Great Britain.
- 7101 SAVILLE, G. Transport for food concerns. 7-8. Food [London] 19:350-351,430-431. Sept./Nov.1950. 389.8 F738
- 7102 SCHAFFER, H. The farmer and the food chain. (Excerpts.) Super Mkt. Merchandising 15(10):50-51,53, 55. Oct.1950. 389.8 Su7  
Marketing.
- 7103 SCHRADER, F. M. Marketing margins of selected agricultural products. Econ. Annal. 20:101-105. Oct.1950. 281.8 Ec72  
Canada.
- 7104 SEEFELDT, F. C. Uses of dry ice refrigeration in shipping frozen foods. Quick Frozen Foods 13(3): 58. Oct.1950. 389.8 Q4



7105 STROMMER, J. Bessere qualität—besserer absatz. *Wien. Bauernbündler* 3(19):3. Sept.16,1950. 19 W632

Agricultural products.

7106 TEAGLE, W. Some problems attending growth of refrigerated truck industry. *Quick Frozen Foods* 13(3): 55-56. Oct.1950. 389.8 Q4

7107 UMBAGH, K. Roadside profits for farm folks. *Ohio Milk Prod.* 13(9):4. Sept.1950. 280.28 Oh33

7108 U. S. AGRICULTURAL RESEARCH ADMIN. Marketing margins and efficiency; highlights from the Marketing Research Workshop, July 9 to 19, 1950, Purdue University. Washington, 1950. 13 p. 1.98 M342

7109 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Disposal of surplus perishable agricultural commodities. Hearings, 81st Cong., 2d sess. on H. R. 9313 and related bills, Mar. 22, 23, and 30, May 3, and July 24-27, 1950. Washington, 1950. 296 p.

7110 U. S. DEPT. OF AGRICULTURE. Distribution of United States food, July 1, 1949 - June 30, 1950. Washington, 1950. 12 p. 1.90 A2D635

7111 U. S. PRODUCTION AND MARKETING ADMIN. Quantities of section 416 commodities delivered to States during fiscal year July 1, 1949 to June 30, 1950. Washington, 1950. 1 p. 1.956 A2Q22

Butter, cheese, dried eggs, dried milk, and potatoes.

7112 U. S. PRODUCTION AND MARKETING ADMIN. A report of market news broadcasting in the Northeast. New York, 1950. 7 p. 1.956 A2F227

7113 U. S. PRODUCTION AND MARKETING ADMIN. Resume of regulations and controls governing domestic transportation and warehousing during World War II and affecting programs of the U. S. Department of Agriculture. Washington, 1950. 1.956 T68R31

7114 U. S. PRODUCTION AND MARKETING ADMIN. The wholesale produce market at Norfolk, Va., by J. S. Larson, C. J. Otten, S. D. Clark, F. L. Faber, A. B. Lowstuter, and C. J. Brasington, Jr. Washington, 1950. 64 p. 1.956 M343W622

7115 VARNEY, H. R. Some problems facing Extension in the field of marketing. (Abs.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:132-133. 1950. 4 As7

7116 WHETHAM, E. H. The future of agricultural marketing. *Agr. Econ. Soc. J. Proc.* 8:106-120. Apr. 1949. 281.9 Ag8

Includes discussion.

7117 WINTER, J. C. What will a national emergency do to the refrigerator car supply? *West. Grower & Shipper* 21(12):129-130. Nov.1950. 280.38 W52

Survey prepared from a special report.

7118 ZÜLLIG, E. Die berufsbildung als mittel zur absatzförderung. *Agrarpolit. Rev.* 6:487-494. July/Aug. 1950. 281.8 Ag824

Switzerland.

#### GRADING, INSPECTION, STANDARDIZATION AND QUALITY

7119 AHMAD, H. Punjab Pure Food Act, 1929, and its administration. (Abs.) *Co-op. & Mktg. Rev.* 4: 252. July 1950. 280.28 C78243

7120 ANDERSON, T. A successful clean food campaign. *Med. Off.* 2202:157-158. Oct.7,1950. 448.8 M462

7121 BREED, W. R. The administration of the food and drugs acts in English counties. (Extr.) *Brit. Food J.* 52:82-84. Sept.1950. 389.8 B77

7122 CLARENBURG, A. Bacterial decay and contamination of foods in connection with public health. (In Dutch.) *Voeding* 11:329-340. Sept.15,1950. 389.8 V85

7123 GRAU, C. A. La adición de bromato de potasio a las harinas, considerada desde el punto de vista sanitario. *Buenos Aires. Min. de Salud Púb. y Asistencia Social. Rev. de Sanid.* (1948/49)2:115-124. Ref. 1950. 449.9 B86

7124 HARPER, R. Assessment of food products. *Food [London]* 19:371-375. Ref. Oct.1950. 389.8 F738

Grading.

7125 HITCHNER, L. S. Industry looks at food and drug tolerance hearing. (Abs.) *Amer. Assoc. Ent. No. Cent. States Br. Proc.* 5:3-4. 1950. 422.12 N81

7126 HOBBS, B. C. Prevention and control of food-borne infections. *Nutr. Dietet. Catering* 4:83-88. Autumn 1950. 389.8 N959

7127 THE LABELLING of foods and beverages in South Africa. *Food Indus. So. Africa* 3(5):27-31,35. Sept.1950. 389.8 F7372

7128 THE MENACE of food poisoning. *Food Mfr.* 25: 420-422. Oct.1,1950. 389.8 F736

7129 SALMINEN, V. I. Scandinavian Committee for the Adaptation of Food Examination Methods. (In Finnish) *Suomen Kemistilehti. A* 23:198-201. 1950. 385 Su7

English summary.

7130 SCHAAL, A. A. Chemical agents and residues in foods: from the viewpoint of the consumer. *Food Technol.* 4:460-462. Nov.1950. 389.8 F7398

7131 TÄUFEL, K. Qualität der lebensmittel vom standpunkt der lebensmittelchemie. *Nat. u. Nahr. Ausg. B* 4:70-72. July 1950. 80 N218B

7132 WALDER, W. O. Food poisoning by bacteria. *Food [London]* 19:384-386. Oct.1950. 389.8 F738

7133 WIJERATNE, M. S. Grade your produce. *Marketing* 2(2):9. July 1950. 280.38 M349

Agricultural products.

7134 WINTERINGHAM, F. P. W., and others. The fate of labelled insecticide residues in food products. I. Studies with a radioactive bromine analogue of DDT. *J. Sci. Food & Agr.* 1:214-219. Ref. July 1950. 382 So12

A. Harrison, C. R. Jones, J. L. McGirr, and W. H. Templeton, joint authors.

#### PACKING AND PACKAGING

7135 BURNETT, E. N. Materials handling and divisible case. (Digest.) *Food Canada* 10(9):42. Sept. 1950. 389.8 F7323

7136 CHAMBELLAN, P., and others. La pression intérieure dans les boîtes de conserves et ses variations pendant la stérilisation. *Étab. J.-J. Carnaud, Forges de Basse-Indre. Lab. de Rech. B.* 3:53 p. Dec.1949. 389.9 Et1

H. Cheftel, M. L. Thuillot, and R. Boudeau, joint authors.

7137 COX, C. Packet and carton containers and their effect on foods. (Sum.) *Austral. Food Mfr.* 20(2): 34,38. Sept.5,1950. 389.8 Au7

7138 CROSMAN, R. Consumers and retailers judge the individual merits of today's packaged products. *Food Canada* 10(9):60-63. Sept.1950. 389.8 F7323

7139 CROSMAN, R. Western Packaging Exposition: packaging industry facing profitable growth period. *Food Canada* 10(9):37-45. Sept.1950. 389.8 F7323

7140 DELMONTE, J. Organic plastics feature trends in packaging. (Sum.) *Good Packaging* 11(8):21-22. Aug.1950. 280.38 G59

Also in *Food Canada* 10(9):37-38. Sept.1950.

7141 GIBSON, W. B. Air freight and the packaging industry. (Digest.) *Food Canada* 10(9):44. Sept.1950. 389.8 F7323

7142 GÜNTART, W. Wie der bauer früher selbst für seine erzeugnisse erworben hat. *Grüne* 78:1011-1014. Sept.15,1950. 17 Sch9

Bags for agricultural products.

7143 HALLS, E. E. Moistureproof wrapping papers. *Food [London]* 19:376-378,386. Oct.1950. 389.8 F738

7144 LEVY, F. International implications of packaging. (Digest.) *Food Canada* 10(9):42. Sept.1950. 389.8 F7323

7145 MALCOLMSON, J. D. Paperboard for the Armed Forces. *Mod. Packaging* 24(2):98-100. Oct.1950. 309.8 M72

Containers for rations.

7146 MANZANO, M. Un nuevo sistema para conservar los productos perecederos durante su transporte, "el container." *Aliment. Nac.* 10(172):6-7,16. July 25, 1950. 389.8 AL42

7147 NEWELL, G. Color theory—a basis for the visual appeal of today's package. *Food Canada* 10(9):54, 56. Sept.1950. 389.8 F7323

7148 NISSEN, H. J. Mr. Packaging Engineer: "have you thought of warehousing, too?" (Sum.) *Good Packaging* 11(8):23. Aug.1950. 280.38 G59

Package design.



7149 NISSEN, H. J. The relationship between warehousing and the packaging industry. (Digest.) Food Canada 10(9):38-39. Sept.1950. 389.8 F7323

7150 NORTON, C. E. Metal containers for food. (Sum.) Austral. Food Mfr. 20(2):40,42. Sept.5,1950. 389.8 Au7

7151 PACKAGING; 1950 directory. Food Canada 10(9):86,88,90,92,94,96,98,100,102,104,106,108,110,112, 114. Sept.1950. 389.8 F7323

7152 RABAK, W. Protective packaging with molten thermoplastics. (Digest.) Food Canada 10(9):40, 42. Sept.1950. 389.8 F7323

7153 VADÉ, S. La présentation, clef de la vente des produits. Vie à la Campagne 39:266-268. Aug.1950. 80 V67

#### PRICES, PRICE CONTROL, AND RATIONING

7154 BANK OF NOVA SCOTIA. The upswing in basic commodity prices. Bank Nova Scotia. Mon. Rev. (n.s.)50: 1-4. July 1950. 280.9 B223  
Food and raw materials.

7155 BRANDT, J. An outline of the Brandt Plan; a program to stabilize prices of agricultural commodities through a self-financing system of price supports, operating under the mechanism of a surplus holding-and-disposal pool. Calif. Dairyman 30(17):28,30-31. Sept.23, 1950. 44.8 C12

7156 THE BRANDT Plan. Mich. Milk Messenger 32(6):3,6. Oct.1950. 44.8 M582  
Price supports.

7157 CURRENT federal agricultural programs affecting prices of farm products. Econ. Annal. 20:118-119. Oct.1950. 281.8 Ec72  
Canada.

7158 CURTISS, W. M. Price supports. Irvington-on-Hudson, N. Y., Found. Econ. Educ., 1949. 19 p. (Brief. v.2(3)) 284.3 C94  
Similar title in Appleland News 14(9):6-14. Sept.1950. 80 Ap53

7159 FAZL-E-AHMED. Problem of stabilising agricultural prices. Karachi Com. 2(52):9. Nov.19,1949. 280.8 K14

7160 FROSTENSON, G. Price policy in Sweden. N. Y. Agr. Col. Farm Econ. 175:4505-4508. July 1950. 280.8 C812

7161 GT. BRIT. MINISTRY OF FOOD. Rationing in the United Kingdom. Gt. Brit. Min. Food. Our Food Today 1,44 p. 1950. 389.9 G790

7162 HONG-BOM, K. Prices in Korea. N. Y. Agr. Col. Farm Econ. 175:4497-4500. July 1950. 280.8 C812

7163 HOOD, K. Price supports—which way? Pa. Farm Econ. 39:1-2. July 1950. 275.29 P382Pf

7164 HORRING, J. Enige aspecten van minimum-prijstellingen voor landbouwproducten [Aspects of minimum price regulation for agricultural products]. Wageningen, Veenman & Zonen, 1949? 17 p. 284.3 H78

7165 IRAGORRI R., C. A. Los índices de costos de materias primas y su necesaria revisión. Banco de la Repúb. Rev. 23:724-726. July 20,1950. 284.9 C713  
Colombia.

7166 KLINE, A. Crisis demands clear thinking. Hoosier Farmer 35(9):43,45. Sept.1950. 280.82 H76  
Price controls and rationing.

7167 KLINE, A. B. A.F.B.F. position on price controls and inflation. Farm Bur. Mass. 1950:25-26. Aug.1950. 275.293 Mass

7168 KLINE, A. B. Cheaper food, promise or political lure? n.p., 1950. 3 p. 281.12 K68  
Reprinted from Colliers, May 13, 1950.  
The Brannan Plan.

7169 KLINE, A. B. Enemy has time table—strategic blunders—price fixing—black markets—inflation. Grain & Feed J. Consolidated 105(8):14-16. Oct.25,1950. 298.8 G762

7170 LAMOUR, P. Bilan de fin de campagne. Agr. Charentais 5(17):1. (To be cont.) Sept.15,1950. 14 Ag825  
Prices and production costs.  
Also in Bas-Rhin Agr. 5:437-438. (To be cont.) Sept.16, 1950. 14 B29

7171 MCCABE, B. C. Our policy on the support of farm prices by the Gov't. Gleaner 4(spec.ed.):3. Mar. 1950. 6 G472

7172 MECHANISM of the surplus holding pool under the Brandt Plan. Skagit Co-op Dairyman 28:11,14-15. Sept.1950. 280.28 Sk1  
Price support system.

7173 MEDICI, G. General markets and high prices. (In Italian.) Gior. di Agr. 60:283. Sept.10,1950. 16 It1G Italy.

7174 MEINHOLD, W. Volkswirtschaftliche preis- und kreditprobleme der restdeutschen agrarwirtschaft. München, Pflaum, 1949. 136 p. (Volkswirtschaftliche Zeitfragen. 5) 281.175 M472

7175 MORELL, M. Es algo monstruoso; el miedo del gobierno a los altos precios de productos nativos condena al país a la pobreza. Rev. del Café 6(3):31. Aug./Sept.1950. 8 R3295  
Puerto Rico.

7176 OGG, W. E. What level of support? Farm Policy Forum 3(10):11-13. Oct.1950. 281.8 F2274

7177 PARVIN, D. W., and CHRISTIAN, W. E. Prices received by Mississippi farmers climb to near record; cotton leads. Miss. Farm Res. [Miss. Sta.] 13(9):1,8. Sept.1950. 100 M69Mi

7178 REICH, B. Brannan Plan—a war casualty? Calif. Farm Rptr. 11(10):1. Oct.1950. 281.8 C12

7179 ROWLEY, S., and UNDERWOOD, E. J. A farm-price-tribunal for Australia. Austral. Q. 22(3):35-46. Sept.1950. 280.8 Au7

7180 SALANGA, L. Recent price trends. Sugar News 26:376-381. July 1950. 65.9 Su36  
Philippine agricultural products.

7181 SANDIFER, T. N. Wage-price controls pose political question. Natl. Livestock Prod. 29:9. Oct.1950. 280.38 N21

7182 SCHENCK, H. E. Price controls and rationing again threaten U. S. economy. Hoosier Farmer 35(9):4. Sept.1950. 280.82 H76

7183 SCHICKELE, R. Prices of North Dakota farm products. N. Dak. Agr. Expt. Sta. Bimon. B. 13:29-30. Sept./Oct.1950. 100 N813B

7184 SEALS, W. F. Peanut industry vitally interested in food controls possibilities. Peanut J. & Nut World 29(12):25-27. Oct.1950. 77.8 P313

7185 SERANDOUR, P. Importantes décisions pour lutter contre l'inflation et le déséquilibre des prix. Monit. Agr. 3(130):1,3. Oct.8,1950. 14 M744  
France.

7186 THATCHER, M. W. Stability at parity. G T A Digest 10(9):2. Sept.1950. 280.28 G11

7187 VICENS RÍOS, A. La administración general de suministros. P. R. Dept. de Agr. y Com. Almanaque Agr. de P. R. 1950:25-31. 8 AL62  
Includes price control and rationing.

7188 VOLMAN, S. Z. Massenaushungerung in der rumänischen "volksdemokratie." Landarb.-Arch. 5:307-310. July 1950. 283.8 L23

Rationing restrictions affecting farmers and farm labor employers in Rumania under extension of the collective farm system.

7189 WILLIS, P. S. Food price "spread" explained. Hoosier Farmer 35(9):12,25. Sept.1950. 280.82 H76

7190 ZULUETA, M. M. DE. Numeros índices de los precios agrícolas del año 1949. Spain. Inst. Nac. de Invest. Agron. B. 10(22):219-225. June 1950. 105.6 Sp14  
Spain.

#### PROCESSING AND STORAGE

7191 BEATY, H. Buying a home-freezer. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:58-59. Oct.1950. 275.28 Io94

7192 BELLEW, J. Fermented goods. London, MacLaren, 1950? 183 p. 389.25 B414  
Manufacture of bakery products.

7193 BURE, J. Le contrôle des levures de panification françaises. Rev. des Ferment. et des Indus. Aliment. 5:111-120. Aug.1950. 390.08 R32

7194 BURGER, W. W. An economic study of locker plants, New York, 1949. N. Y. Agr. Col. A. E. 745,38 p. July 1950. 281.9 C81

7195 CALDWELL, W. A., and GILLIES, J. Development of a self-heating food can. Food [London] 19:337-339. Ref. Sept.1950. 389.8 F738



- 7196 CLIFCORN, L. E., and others. A new principle for agitating in processing of canned foods. *Food Technol.* 4:450-457. Nov.1950. 389.8 F7398  
G. T. Peterson, J. M. Boyd, and J. H. O'Neil, joint authors.
- 7197 COLLEY, D. G. The job ahead. *Canner* 111 (15):10-12. (To be cont.) Oct.14,1950. 286.83 C16  
The canning industry.
- 7198 COLLEY, D. G. Planning and selling for profit. *Canning Trade* 73(13):6-8,17-18. Oct.16,1950. 286.83 T67
- 7199 CROSMAN, R. Food experts report progress in processing. *Food Canada* 10(9):64,66,71. Sept.1950. 389.8 F7323
- 7200 DREW, F. Around the world with food processors. *West. Canner & Packer* 41(11):49. Oct.1950. 286.83 W522
- 7201 DYKSTRA, K. G., and SMITH, S. E. Sanitation practices in the frozen food industry. *Food Technol.* 4: 419-422. Oct.1950. 389.8 F7398
- 7202 FAGERSON, I. S., and ESSELEN, W. B., JR. Heat transfer in commercial glass containers during thermal processing. *Food Technol.* 4:411-415. Oct.1950. 389.8 F7398
- 7203 FARRER, K. T. H. The thermal loss of vitamin B<sub>1</sub> on storage of foodstuffs. *Austral. J. Expt. Biol. & Med. Sci.* 28:245-252. Ref. May 1950. 442.8 Au7
- 7204 FENTON, F., and others. Home freezing in Hawaii. *Hawaii. Agr. Expt. Sta. C.* 33,62 p. Sept.1950. 100 H313  
G. Bryant, C. D. Miller and K. Orr, joint authors.
- 7205 FISHER, F. E. The licensing and inspection of cold storage locker plants. *J. Milk & Food Technol.* 13:296-302. Sept./Oct.1950. 44.8 J824
- 7206 FOOD Packer processing digest. *Food Packer* 31(10),164 p. Sept.15,1950. 286.83 C165  
A directory of supplies.
- 7207 FRANZENBURG, P., JR. Iowa locker industry. *Iowa Dept. Agr. B.* 94-J.:69-86. 1950. 2 Io9B
- 7208 GRAHAM, J. Home-canned food spoilage— you can avoid it. *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 5:47-48. Sept.1950. 275.28 Io94
- 7209 GUMMERT, F. Fettgewinnung aus der massenzucht von grünlagen. *Fette u. Seifen* 52:453-454. Aug. 1950. 384 C422
- 7210 HANNON, R. C. Locker plants adopt a formula for planned public relations. *Locker Plants & Frosted Foods* 5(3):11,17. Aug.1950. 389.8 L792
- 7211 HISTORY of canning in eastern Ontario. *Canad. Food Indus.* 21(10):18-21,23,25. Oct.1950. 286.83 C166
- 7212 HUTCHISON, C. S. Food technology—organization and facilities. (Sum.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:150-151. 1950. 4 As7  
Research and education.
- 7213 IVES, M. Nutrient retention during canning. *I. Food Canada* 10(10):30,32,34,36. Oct.1950. 389.8 F7323
- 7214 KAGAN, I. S. Sterilizatsiya konservov [Sterilization of canned goods]. *Moskva, Pishchepromizdat, 1949.* 46 p. (Uchebnoe Posobie dlia Podgotovki Kadrov Massovoykh Professii) 389.3 K11
- 7215 LAUD, D. S. Cold storage practice in the preservation of perishable food-stuffs. *Indian Vet. J.* 27: 95-100. Sept.1950. 41.8 In2
- 7216 LONCIN, M. Organic monobromoacetates as fermentation inhibitors. (In Italian.) *Chimica* 5:191-194. Aug.1950. 385 C445  
Food preservation.
- 7217 MCKINLEY, E., and others. Some views from the suppliers. *West. Canner & Packer* 41(11):10-11. Oct.1950. 286.83 W522  
C. S. Hall, H. W. Johnston, J. C. Swift, J. C. Miller, and K. A. Hamel, joint authors.  
Equipment outlook.
- 7218 MANN, L. B., and WILKINS, P. C. Here are the facts! A survey of the industry in 1950. *Locker Oper.* 13(2):12-14. Sept.1950. 295.8 L79
- 7219 MANN, L. B., and WILKINS, P. C. More locker plants, tougher going. *News Farmer Coop.* 17(7):16-18. Oct.1950. 166.2 N47
- 7220 MARKHOF, G. M. Die entwicklung der kunstlichen kühlung. *Versuchsanst. f. das Gärungsgewerbe.* Mitt. 1950:106-110. July/Aug.1950. 390.08 V67
- 7221 MARKOWICZ, E. Interrelation of chemical and foodstuffs industries. II. *Israel Export J.* 2(8):7. Aug.1950. 286.8 Is7
- 7222 MARSHALL, W. R., JR., and SELTZER, E. Principles of spray drying. I-II. *Chem. Engin. Prog.* 46: 501-508,575-584. Oct.-Nov.1950. 381 C4232  
Includes food.
- 7223 MARTIN, W. M. Aseptic canning system embodying short high-temperature sterilization. *Canner* 111(12):12-14,16,22,24. Ref. Sept.23,1950. 286.83 C16
- 7224 MIXON, J. A. Locker plants serve home freezers. *Mktg. Activ.* 13(9):10-12. Sept.1950. 1.942 A8M34
- 7225 MURRAY, R. V. The storage of canned foods. 4. *Food Canada* 10(8):11-14,16. Aug.1950. 389.8 F7323
- 7226 NEW YORK (STATE) DEPT. OF AGRICULTURE AND MARKETS. Cold storage holdings in New York 1919 to 1949. *Albany, 1949.* 107 p. 295.9 N482  
Library has supplement for 1948-1949, published 1950.
- 7227 NISHIMURA, S. Kobo no riron to jissai. (Theory and practice of fermentation). Tokyo, Kawade Shobo, 1950. 273 p. 390 N63
- 7228 ONGARO, D. Outlook for the food preservation industry: organic ion exchangers. (In Italian.) *Indus. Ital. delle Conserve* 25:13-18. Ref. Jan./Feb.1950. 389.8 In23
- 7229 ORR, N., JONES, I. D., and TYLER, W. E. Freezing foods for the home. *N. C. Agr. Col. Ext. C.* 280, rev., 27 p. June 1950. 275.29 N811
- 7230 PAUL, A. B. Food processing marks 40 years of growth. *Food Indus.* 22:1876-1878,2006-2007. Nov.1950. 389.8 F737
- 7231 PEET, L. J., and LOWE, B. Using your home freezer. *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 5:60-62. Oct.1950. 275.28 Io94
- 7232 PRICE, F. E. Food technology—curricula. (Abs.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63: 149-150. 1950. 4 As7
- 7233 RESUGGAN, J. C. L. Quaternary ammonium compounds in food factory hygiene. *Food Mfr.* 25:462-464. Ref. Nov.1,1950. 389.8 F736
- 7234 REUTER, F. H. The training of professional food technologists. (Sum.) *Austral. Milk & Dairy Prod. J.* 17(7/8):18-19. July/Aug.1950. 44.8 Au72
- 7235 TALLARICO, G. Microbes, provider of vitamins. (In Italian.) *Ital. Agr.* 87:465-468. Aug.1950. 16 It1  
Vitamin synthesis.
- 7236 VEEN, A. G. VAN. Biochemistry in the service of world food supply. (In Dutch.) *Voeding* 11:341-351. Sept.15,1950. 389.8 V85
- 7237 WENZL, H. Aufgaben und wege des vorrats-schutzes. *Pflanzenarzt* 3(3):1-2. Sept.1950. 464.9 P482
- 7238 WHITE, J. Microbiological control of yeast growth processes. *Wallerstein Lab. Commun.* 13:267-280. Sept.1950. 390.9 W15
- 7239 WIGGERS DE VRIES, J. V. The so-called fruit aldehydes, a survey of their uses and principal constituents. *Perfumery & Essential Oil Rec.* 41:326-328,337. Sept.1950. 308.8 P41
- 7240 WILLIAMS, E. W. Frozen foods in Europe; a personal report. 1. England & Ireland. *Quick Frozen Foods* 13(3):39-43,111-115. Oct.1950. 389.8 Q4
- 7241 WILLIS, P. S., and others. Present situation as seen by food industry observers. *West. Canner & Packer* 41(11):8-10. Oct.1950. 286.83 W522  
W. L. Walde, A. L. Hobart, W. Rogers, J. A. Logan, L. S. Martin, C. S. Lawrence, and G. T. McCartney, joint authors.
- 7242 WURZSCHMITT, B. Chemische stoffe zur haltbarmachung von lebensmitteln. *Chem.-Ztg.* 74:481-482. (To be cont.) Ref. Aug.17,1950. 384 C427
- 7243 ZEMBRANO, C. Refrigeration, key to Europe's distribution. *Super Mkt. Merchandising* 15(10):156-157. Oct.1950. 389.8 Su7

## STATISTICS

- 7244 ASSOCIAZIONE PER LO SVILUPPO DELL'INDUSTRIA NEL MEZZOGIORNO. Relazione del consiglio di amministrazione al bilancio 1949 [Report of the administrative council 1949]. Roma, 1950. 81 p. 280.9 As73R  
Includes agricultural statistics.



- 7245 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Production, 1947-48. II. Primary industries and total recorded production. Canberra, 1950. 173 p. 271 Au72P
- 7246 AUSTRIA. STATISTISCHES ZENTRALAMT. Ergebnisse der landwirtschaftlichen Statistik in den Jahren 1946-1949. Austria. Statist. Zentamt. Beitr. z. Osterr. Statist. 5, 124 p. 1950. 266 St22
- 7247 BANK OF CANADA. Statistical summary, 1950 supplement. Ottawa, 1950. 147 p. 284.9 B2222  
Contains agricultural statistics.
- 7248 BRAZIL. CONSELHO NACIONAL DE ESTATÍSTICA. Anuário estatístico do Brasil, ano X, 1949 [Statistical annual of Brazil, 10th year, 1949]. Rio de Janeiro, 1950. 792 p. 255.3 Ag82Es  
Contains agricultural statistics.
- 7249 CANADA. BUR. OF STATISTICS. Index of farm production, 1949. Ottawa, 1950? 3 p. 281.9 C164
- 7250 CLEMENS. Die ernteertragsstatistik 1950. Statist. Praxis 5:129-131. Aug. 1950. 251.8 St25  
Germany.
- 7251 COLOMBIA. DIRECCION GENERAL DE LOS CENSOS. Censo experimental de Tabio (Informe). Bogotá, 1950. 63 p. 255.5 C713Ce  
Includes population and agriculture.
- 7252 EICHINGER, J. Anbau auf dem ackerland nach der bodenbenutzungserhebung 1950. Bayern in Zahlen 4: 381-382. Aug. 1950. 265 B34  
Crop areas.
- 7253 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Crop estimating and forecasting in underdeveloped areas. Lake Success? 1950. 6 p. (United Nations. [Doc.] E/CN.3/Sub.1/29) 251 F73C
- 7254 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. The domestic producer. London, 1949. 2 p. 281.171 G79D  
Agricultural production statistics.
- 7255 INDIA. DIRECTORATE OF ECONOMICS AND STATISTICS. Indian agricultural statistics, 56th, 1939-40 to 1942-43. Calcutta, 1950. 2 v. 269.5 St2Ag
- 7256 INDIANA. AGRICULTURAL EXPERIMENT STATION. Indiana crops and livestock. Ind. Agr. Expt. Sta. Ind. Crops & Livestock 300, 4 p. Sept. 1, 1950. 252.25 Ag8  
Statistics of field crops, fruit, and livestock products.
- 7257 IOWA CROP AND LIVESTOCK REPORTING SERV. Annual farm census 1949. Des Moines, 1950. 35 p. 2 Io9B
- 7258 IRAQ. PRINCIPAL BUR. OF STATISTICS. Statistical abstract, 1948. Baghdad, 1950. 291 p. 269.8 Ir1  
Includes agricultural statistics.
- 7259 JENSEN, H. L. Plant production 1959. (In Danish.) Tidsskr. f. Landøkon. 1950:385-403. Aug. 1950. 11 T43
- 7260 MALAYA. DEPT. OF STATISTICS. REGISTRAR OF MALAYAN STATISTICS. Average prices, declared trade values, exchange and currency, volume and average values of imports and exports, market prices, and cost of living for the years 1947 and 1948 (corrected up to 31st December, 1948). Singapore, 1950. 137 p. 269.6 St83M
- 7261 MONTGOMERY, J. P., and BRYAN, S. L. Agricultural statistics for Louisiana, 1909-1949. La. Agr. Expt. Sta. B. 444, 72 p. June 1950. 100 L93
- 7262 ONTARIO. DEPT. OF AGRICULTURE. STATISTICS BR. Annual report, 1949. Toronto, 1950. 76 p. 253.6 In2R
- 7263 PRUNET, P. Pertes de récoltes à la suite de calamités (notamment orages de grêle). Agr. Prat. 114: 396. Sept. 1950. 14 J82
- 7264 QUEBEC. BUR. DES STATISTIQUES. Annuaire statistique, statistical year book, 34, Quebec, 1949. Quebec, 1950. 591 p. 253.8 St2  
Contains chapters on colonization, agriculture, forestry, and trade.
- 7265 RAY, G. S., HOUGHTON, E. E., and KENDALL, J. R. Ohio agricultural statistics, 1942-1946. Ohio. Agr. Expt. Sta. B. 691, 108 p. Apr. 1950. 100 Oh3S
- 7266 RAY, G. S., and others. Ohio agricultural statistics 1947 and 1948. Ohio. Agr. Expt. Sta. B. 692, 47 p. May 1950. 100 Oh3S  
E. E. Houghton, H. M. Clevenger, and J. R. Kendall, joint authors.
- 7267 RITTER, K. Ehrlichkeit in den hektarertragsmeldungen garantiert gerechte differenzierung. Versorgung 4:202-203. Aug. 1950. 280.8 V61  
Russian Zone of Germany.
- 7268 SAVAGE, Z. Citrus acreage required to net \$3,000 annually 1939-49. Citrus Mag. 13(2):22-23. Oct. 1950. 80 C498
- 7269 SCHWEIZERISCHES BAUERNSEKRETARIAT. Statistische erhebungen und schätzungen auf dem gebiete der landwirtschaft, 27. jahresheft, 1950. Brugg, 1950. 132 p. 262 Un3S
- 7270 STATE-FEDERAL CROP AND LIVESTOCK REPORTING SERV. Minnesota agricultural statistics, 1948-1949. St. Paul, 1950? 47 p. 1 Ec7M
- 7271 U. S. BUR. OF AGRICULTURAL ECONOMICS. Crops and markets 27, 141 p. 1950. 1 Ag84Wcm
- 7272 WELY, A. J. M. VAN. Statistical data about the cultivation of medicinal, aromatic and kindred crops in the Netherlands. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:391-397. July 1950. 86 N384  
English summary.

## BEVERAGES AND CONDIMENTS

- 7273 ALFEND, S. Report on spices and condiments. Assoc. Off. Agr. Chem. J. 33:571-575. Aug. 15, 1950. 381 As7
- 7274 ANDRADE, E. DE. Vinegar made on the farm. (In Portuguese.) Soc. Rur. Brasil. Rev. 30(356):42-46. July 1950. 9.2 B733
- 7275 ANDRADE, T. DE. Black, hot, pure, sweet. United Nations World 4(10):50-51. Oct. 1950. 280.8 Un384  
The coffee industry.
- 7276 AUSDERAU, E. Süß- und gärmost im bauernhaus. Grüne 78:957-962. Sept. 1, 1950. 17 Sch9
- 7277 BARQUERO, H. Quality of cacao in Costa Rica. (In Portuguese.) Fazenda 45(9):36, 46. Sept. 1950. 6 H11P
- 7278 BEECHAM, W. The brewing industry in Australia. Brewers' J. 86:531-532. Oct./Nov. 1950. 390.8 B753
- 7279 BENEZET, L., and JGOLEN, G. Notes on the essence of wine lees. (In Italian.) Riv. Ital. Essenze, Profumi, Piante Off., Olii Veg., Saponi 32:436-439. Ref. Sept. 15, 1950. 308.8 R52
- 7280 BERTRAND, G. Vendanges; conseils pour bien réussir son vin. Rustica 23:765-766. Sept. 10, 1950. 14 R92
- 7281 BOURHIS, R. Brazil consul predicts lower coffee prices. Canad. Grocer 64(21):10, 30. Nov. 1, 1950. 286.83 C162
- 7282 BRANCOLINI, L. Income and the wine industry. (In Italian.) Cor. Vinic. 22(39):1-2. Oct. 7, 1950. 390.8 C732
- 7283 BRAUN, F., and RENTSCHLER, H. Wird durch katadynisieren der nachweis von obstwein in wein nach Werder verunmöglicht? Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hyg. 41:338-340. 1950. 389.9 Sw6
- 7284 BUNKER, H. J. pH in brewing. Food [London] 19:418-422, 431. Ref. Nov. 1950. 389.8 F738
- 7285 CADDOW, H. A. The wine industry looks to the 1950s. California 40(9):11, 21-22. Sept. 1950. 280.8 C12
- 7286 CARSON, N. C. Report on volatile oil in spices. Assoc. Off. Agr. Chem. J. 33:575-580. Aug. 15, 1950. 381 As7
- 7287 CASTELLI, F. Artificial cold in the Marsala wine manufacturing industry. (In Italian.) Cor. Vinic. 22(33):3. Aug. 26, 1950. 390.8 C732
- 7288 CASTELLINI, A. Difficult wine manufacture this year! (In Italian.) Agr. Tosc. 5:373-374. Oct. 1950. 16 Ag827
- 7289 CERVEIRA, M. F. DA C. Brief considerations on the Bairrada region. (In Portuguese.) Agros [Lisboa] 33:51-67. Mar./Apr. 1950. 15.5 Ag82  
Includes viticulture and the wine industry.
- 7290 CHAVAN, L. M. Nira. Poona Agr. Col. Mag. 41:137-140. Aug. 1950. 22 P79  
A beverage made from the sweet sap of sugar palms.
- 7291 COLMENERO, M. L. El vino; psicología del consumo. Vinos, Viñas y Frutas 45:494-495. June 1950. 9 Ag89  
Argentina.



- 7292 CONNECTICUT. COMMISSIONER OF FOOD AND DRUGS. Regulations governing the manufacture and sale of dietary beverages. Hartford, 1949. 1 p. 389.5 C763R
- 7293 COSMO, I. Further researches on pink and cerise wines of the Veneto region. (In Italian.) Ann. della Sper. Ann. (n.s.):4:803-817. 1950. 16 An76  
English summary.
- 7294 COSMO, I. "Mark" wines and the protection of fine wines. (In Italian.) Econ. della Marca Trevigiana 37(31):1-2. Aug.5,1950. 280.8 Ec733
- 7295 CRAVENNA, E. Work of the congress of cocoa manufacturers held at Losanna last month. (In Italian.) Gior. dei Pasticcieri e Confettieri 58:465-467. Oct.1950. 389.8 G432
- 7296 DALMASSO, G. Grape and wine production needs definitive legislation. (In Italian.) Cor. Vinic. 22(38):1-2. Sept.30,1950. 390.8 C732  
Italy.
- 7297 DALMASSO, G. The viticultural depression is international. (In Italian.) Gior. di Agr. 60:285. Sept.10, 1950. 16 It1G  
Wine industry.
- 7298 DALMASSO, G. Wine production and morality. (In Italian.) Colt. e Gior. Vinic. Ital. 96:208-209. July 31, 1950. 16 C72
- 7299 DANIELIAN, D. O. To accomplish with honor the production program [of Combine of Champagne Wines in Armenia]. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):49. July 1950. 95.8 V77
- 7300 DESHUSSES, J., and DESBAUMES, P. Dosage des hydrocarbures halogénés dans les cafés sans caféine. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hyg. 41:381-384. 1950. 389.9 Sw6
- 7301 DEUSS, J. J. B. Les méthodes de fabrication de thé non-flétri. Cour. Agr. 15(17):3-4. Aug.16,1950. 24 C83
- 7302 DE ZOETE & GORTON. Tea outlook for 1950. London, 1950. 2 p. 68.19 D53
- 7303 EGGENDORFER, T. Die ursachen und wirkungen der weinabsatzkrise. Burgenländische Bauernbündler 3(15):1-2. Aug.10,1950. 19 B91
- 7304 EGOROV, A. S., and others. Use of ion-gauge in wine analysis. (In Russian.) Vinodel. i Vinograd. SSSR. 10(6):43-45. June 1950. 95.8 V77  
M. B. Khomutetskaya, R. I. Malkina, and N. T. Kostiuik, joint authors.  
For determining hydrogen-ion concentration.
- 7305 EISENBERG, W. V. Report on extraneous materials in drugs, spices, and miscellaneous products. Assoc. Off. Agr. Chem. J. 33:549-550. Aug.15,1950. 381 As7
- 7306 ENDERS, C. Zur frage der heilwirkung von bier. Brauwissenschaft 1950:161-164. (To be cont.) Aug.1950. 390.8 B733
- 7307 ENGEL, F. Beitrag zur topographie der mikroorganismen im weingarten und im keller unter besonderer berücksichtigung der infektionen im keller. Versuchsanst. f. das Gärungsgewerbe. Mitt. 1950:63-68,98-100. (Cont.) May/June-July/Aug.1950. 390.08 V67
- 7308 ESSERY, R. E. Determination of phytate phosphorus in wort and beer. Inst. Brewing J. 56:319-326. Sept./Oct.1950. 390.9 In7
- 7309 FARF, I. Contribución al estudio del Teobroma cacao y a la extracción industrial de la teobromina de la cascarrilla en nuestro país. La Plata. U. Nac. Facul. de Cien. Quím. Rev. (1947)22:285-300. 1949. 385 L31  
Summary of a thesis.  
Includes composition.
- 7310 FISEISKII, V. N. Control of wine evaporation. Vinodel. i Vinograd. SSSR. 10(7):41-42. July 1950. 95.8 V77
- 7311 FRANSKY, G. Einige betrachtungen zur zentrifugalklärun von bier. Brauwelt 1950:749-751. Sept.7,1950. 390.8 B732
- 7312 FROLOV-BAGREEV, A. M., and ANDREEV-SKAI, E. G. On the role of minor elements in wine making. (In Russian.) Vinodel. i Vinograd. SSSR. 10(6):38-40. June 1950. 95.8 V77
- 7313 GALLO, G. Wine: great invalid. (In Italian.) Agr. delle Venezie 4:162-166. June/July 1950. 16 Ag826  
The wine industry.
- 7314 GATTI, O. O. Estudio comparativo de algunos procedimientos de evaluación de cafeína en café, té y yerba mate. La Plata. U. Nac. Facul. de Cien. Quím. Rev. (1947)22:309-321. Ref. 1949. 385 L31  
Summary of a thesis.
- 7315 GAUMET, R., and ARGAILLOT, L. Le vignoble de Saint-Pourçain-sur-Sioule. France. Min. de l'Agr. B. Tech. d'Inform. 51:491-499. July/Aug.1950. 14 F844B  
The grape and wine industry.
- 7316 GOODWIN, E. M. Brazil: review of economic conditions, first half of 1950. Foreign Com. Wk. 41:3-6, 40. Oct.2,1950. 157.54 F763  
Includes data on the coffee and hides and skins industries.
- 7317 GUIJARRO, L. G. El famoso vino de Jerez. Rev. Ganad. [San Salvador] 9(128/129):19-21. July/Aug. 1950. 8 R3292
- 7318 GUNTZ, A. A. Echangeurs d'ions et oenologie. Chim. Analyt. 32:246-248. Oct.1950. 383 An72
- 7319 HADORN, H., and JUNGKUNZ, R. Zur theobrominbestimmung im kakao und über seinen gehalt an theobromin, koffein und mineralstoffen. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hyg. 41:384-385. 1950. 389.9 Sw6
- 7320 HARLER, C. R. Present trends in tea withering. Coffee & Tea Indus. 73(10):47,49. Oct.1950. 389.8 Sp4
- 7321 HEIZ, R. A. The Swiss chocolate industry. Swiss Indus. & Trade 28(3):3-6. 1950. 280.8 Sw6
- 7322 HELLER, F. Die fränkischen weinbaubetriebe. Bayern in Zahlen 4:382-384. Aug.1950. 265 B34
- 7323 HESS, E. Alte und neue methoden der würzklährung (-kühlung) und der bierfiltration. Versuchsanst. f. das Gärungsgewerbe. Mitt. 1950:102-106. July/Aug. 1950. 390.08 V67
- 7324 HIRSCHMANN, R. Bierbedarf und gemeinschaftswerbung. Brauwelt 1950:733-736. Aug.31,1950. 390.8 B732  
Germany.
- 7325 HOLMES, K. E. Détermination of theobromine in cocoa products. Analyst 75:457-461. Ref. Sept.1950. 382 An1
- 7326 HOTZ, E. Das fass und seine behandlung. Grüne 78:904-905. Aug.18,1950. 17 Sch9  
Wine containers.
- 7327 INDIAN COFFEE BOARD. Ninth annual report, Bangalore, 1948-49 (from July 1948 to June 1949), v. 1. Bangalore, 1950. 109 p. 68.29 In23
- 7328 KLEBER, W. Die verarbeitung der 1949er gersten sowie deren malze unter besonderer berücksichtigung einer guten schaumhaltung im daraus erzeugten bier, insbesondere im flaschenbier. Brauwelt 1950:652-656. Aug.3,1950. 390.8 B732
- 7329 KONDO, Y. Seiryoinryo, nyusan inryo [Refreshing and lactic drinks]. Tokyo, Yuto Sha, 1950. 155,42 p. (Shokubin Seizo Soshu, 5) 389.6 K832
- 7330 KRAUSS, G. Ein bericht aus der versuchsbrauerei der Brauerei Rob. Leicht in Stuttgart-Vaihingen. Brauwissenschaft 1950:165-170. Aug.1950. 390.8 B733
- 7331 KRETSCHMER, K. F. Aktuelle fragen der haltbarkeit und stabilität des bieres. IV. Brauwissenschaft 1950:170-172. Aug.1950. 390.8 B733
- 7332 KVASNIKOV, E. I., and KHROLIKOVA, V. G. Yeasts in wine manufacture in Middle Asia. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):31-35. July 1950. 95.8 V77
- 7333 LAFON, J. Vinification en blanc et en rouge du vin de consommation familiale. Agr. Charentais 5(17):2. Sept.15,1950. 14 Ag825
- 7334 LANEAU, R. La pasteurisation. Louvain. U. Assoc. des Anciens Etud. en Brasserie. B. 46:1-14. Apr.1950. 390.9 L93  
Beer.
- 7335 LEPPER, H. A. Report on coffee and tea. Assoc. Off. Agr. Chem. J. 33:521-524. Aug.15,1950. 381 As7  
Analysis.
- 7336 LEWIS, R. A. Time for tea education. Coffee & Tea Indus. 73(10):54. Oct.1950. 389.8 Sp4
- 7337 LHERBAT, H. Le logement et le transport du vin à travers les âges. Journée Vinic. Export 24(37):1,7. Sept.30,1950. 390.8 J822



- 7338 LLAMIN, A. I. Fully equipped to meet the wine making season. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):5-7. July 1950. 95.8 V77
- 7339 LOZA, V. M., and VECHER, A. S. Effectiveness of wine clarification with various bentonites. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):35-39. July 1950. 95.8 V77
- 7340 LUTHER, M. Amerikanische wirtschaftseinflüsse auf die brauerei im westeuropäischen raum. Brauwelt 1950:707-711. Aug. 24, 1950. 390.8 B732
- 7341 MCMULLEN, L. The sources and nature of statistical information in special fields of statistics: United Kingdom brewing industry statistics. Roy. Statist. Soc. J. Ser. A, Gen. 113:230-237. 1950. 251 R81J
- 7342 MAESTRO PALO, F. Alcohollización o encabecado de los vinos. Ceres [Valladolid] 15(171):6-7. Sept. 1, 1950. 15 C33
- 7343 MALFATTO, P. Mild filtrates and fermentation preventers. (In Italian.) Colt. e Gior. Vinic. Ital. 96:202-203. July 31, 1950. 16 C72  
Wine manufacture.
- 7344 MANGOLD, S. What is necessary to assure the well-being and stability of the wine economy. (In Italian.) Cor. Vinic. 22(22):1,3. June 10, 1950. 390.8 C732  
Italy.
- 7345 MARESCALCHI, A. What to do for the fine wines of Valtellina. (In Italian.) Rass. Econ. della Prov. di Sondrio 3(7/8):3-4. July/Aug. 1950. 287 So5
- 7346 MARTINVAL, R. Gloire de terre française: la viticulture champenoise et le vin de champagne. Libération Paysanne 7(278):5,7. Sept. 7, 1950. 14 L61
- 7347 MAYER, E. H. Vanilla beans. Perfumery & Essential Oil Rec. 41:372-374, 386. Oct. 1950. 308.8 P41  
Culture, curing, and packing.
- 7348 MENEZES JÚNIOR, J. B. F. DE. Coffee frauds. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 25:178-180. Mar. 1950. 68.29 Sa63
- 7349 MEREDITH, W. O. S. Wort properties: a review. Wallerstein Lab. Commun. 13:223-240. Ref. Sept. 1950. 390.9 W15
- 7350 MESTRE ARTIGAS, C. Sobre un moderno sistema de elaboración de vinos. Asoc. Nac. de Ingen. Agrón. B. Ofic. (ser. 2):138-140. Mar. 1950. 58.9 As5
- 7351 MEYER, W. G. Monosodium glutamate manufacture. Mfg. Chem. 21:379-381. Sept. 1950. 396.8 M31
- 7352 MICKEVICZ, M. J. Can we simplify chocolate handling? Confectionery-Ice Cream World 44(20):24. Nov. 17, 1950. 389.8 C767
- 7353 MILLER, M. G. How coffee came to Texas. Coffee & Tea Indus. 73(10):17-18. Oct. 1950. 389.8 Sp4
- 7354 MOLINS, J. La vitivinicultura argentina a través de su proceso constructivo. Vinos, Viñas y Frutas 45(538):27, 29-31. July 1950. 9 Ag89
- 7355 MONSERRAT, J. Problems of grape and wine production. (In Portuguese.) Coop [Bahia] 9(79):9-10. June 1950. 280.28 C7842  
In Rio Grande do Sul.
- 7356 MONSERRAT, J. Problems of the wine industry. II. (In Portuguese.) Cooperativismo [Rio de Janeiro] 4(49):9-10. July 1950. 280.28 C7856
- 7357 MÜNDER, H. Untersuchungen an filtrierten und separierten bieren. Brauwelt 1950:845-848. Oct. 5, 1950. 390.8 B732
- 7358 NAVAS ROMANO, E. La bodega moderna. Ed. 2, corr. Barcelona, Gili, 1950. 399 p. 390.1 N223  
Wine manufacture.
- 7359 NÈGRE, E. Sur la récupération de l'alcool du gaz carbonique de fermentation et la réfrigération des vendanges. Prog. Agr. et Vitic. 1950:161-162. Sept. 3/10, 1950. 14 P94
- 7360 NÈGRE, E. La vinification et la conservation des vins. Prog. Agr. et Vitic. 1950:147-161. Sept. 3/10, 1950. 14 P94
- 7361 NEZHENTSEV, I. I. Grape vacuum must. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):44. July 1950. 95.8 V77
- 7362 ODINTSOVA, E. N. Present-day problems of microbiology in wine manufacture and in viticulture. (In Russian.) Vinodel. i Vinograd. SSSR. 10(6):41-42. June 1950. 95.8 V77
- 7363 OFF. INTERNATIONAL DU VIN. Rapport sur les activités de l'O. I. V. Off. Internatl. du Vin. B. 23 (235):68-73. Sept. 1950. 390.8 B87
- 7364 ONGARO, D. Change and transposition of the characteristic flavor of juices and drinks exposed to ion exchange. (In Italian.) Chim. e l'Indus. 32:375-379. Aug. 1950. 385 G43
- 7365 OSPINA B., S. Perspectivas de la industria cafetera en Colombia. Banco de la Repub. Rev. 23:604-609. June 20, 1950. 284.9 C713
- 7366 PAVLOV-GRISHIN, S. I. Use of "oglanlinsk" bentonite for clarification of wines. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):40. July 1950. 95.8 V77
- 7367 PIATKOVSKII, I. I. Effort to economize on raw material and decrease losses [in wine manufacture]. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):49-50. July 1950. 95.8 V77
- 7368 PIERRE, M. Les problèmes de la vinification. Paysan du Sud-Ouest 5(236):1,3. Sept. 16, 1950. 14 P292
- 7369 PRATOLONGO, U. Could the wine crisis have been prevented? (In Italian.) Gior. di Agr. 60:276. Sept. 3, 1950. 16 It1G  
Italy.
- 7370 PRATOLONGO, U. Reality on the wine crisis. (In Italian.) Gior. di Agr. 60:269. Aug. 27, 1950. 16 It1G  
Italy.
- 7371 RABAK, F. The use and function of hops in brewing. Brewers Digest 25(9):69-71. Sept. 1950. 390.8 B75
- 7372 RECASENS, L. DE. Cuidados que requieren los toneles. Cult. Mod. 33:256. July 1950. 15 C89  
Wine casks.
- 7373 REITER, R. Steirische lehrweinkosten. Österr. Weinztg. 5:151. Aug. 10, 1950. 390.8 Os7  
Prices.
- 7374 RENTSCHLER, H. Unterbindet das braunwerden der traubenmoste und jungweine! Schweiz. Z. f. Obst- u. Weinbau 59:367. Sept. 30, 1950. 80 Sch9
- 7375 RENTSCHLER, H. Zur bestimmung der gesamten schwefligen säure in süßmosten und traubensäften. Schweiz. Z. f. Obst- u. Weinbau 59:368-370. Sept. 30, 1950. 80 Sch9
- 7376 RIEDER, Monographie des vins de France: Alsace. Off. Internatl. du Vin. B. 22(226):29-35. Dec. 1949. 390.8 B87
- 7377 RIVEROS, J. E. Los vinos generosos. Vinos, Viñas y Frutas 45(538):37, 39, 41. July 1950. 9 Ag89  
Manufacture.
- 7378 ROBERTS, F. J., and TENNEY, R. I. Trends in beer quality. II. Mod. Brewery Age 44(4):35-36. Oct. 1950. 390.8 M72
- 7379 ROBINSON, R. A. Concerning condiments. Brit. Food J. 52:81-82. Sept. 1950. 389.8 B77
- 7380 ROGER, Roger. Les vendanges de 1949 et le marché des vins. Acad. d'Agr. de France. Compt. Rend. 36:471-475. June 21/28, 1950. 14 P215Bc  
Includes discussion.
- 7381 ROVESTI, P. Regulation of beverages having a citrus juice base. (In Italian.) Riv. Ital. Essenze, Profumi, Piante Off., Olii Veg., Saponi 32:431-432. Sept. 15, 1950. 308.8 R52
- 7382 RUDNITSKII, A. L. To improve the quality of wine barrels. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):54. July 1950. 95.8 V77
- 7383 SAENKO, N. F. Tank method of manufacturing sherry type wines. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):30-31. July 1950. 95.8 V77
- 7384 ST. JOHNSTON, J. H. The "protein" constituents of wort and their flocculation effects in brewing. I. Wallerstein Lab. Commun. 13:241-252. Ref. Sept. 1950. 390.9 W15
- 7385 SALZMANN. Production et débouchés des vins d'Alsace. Bas-Rhin Agr. 5:457-458. Sept. 23, 1950. 14 B29
- 7386 SCHELLENBERG, A. Die weinernteaussichten 1950 in der deutschen Schweiz. Schweiz. Z. f. Obst- u. Weinbau 59:349-355. Sept. 16, 1950. 80 Sch9
- 7387 SCHWEISHEIMER, W. Anise and anise seed. 2. Coffee & Tea Indus. 73(10):63. Oct. 1950. 389.8 Sp4
- 7388 SHLEIGER, L. I. Equipment for mechanical gluing of wine [containers]. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):45-46. July 1950. 95.8 V77
- 7389 SICA, S. J., and NANZ, R. A. Identification of insect fragments in spices and other food materials utilizing a differential stain. Assoc. Off. Agr. Chem. J. 33:895-897. Aug. 15, 1950. 381 As7



7390 SIQUEIRA, N. DE. Cooperation and the coffee producers. (In Portuguese.) Divulg. Coop. 9:19. July 1950. 280.28 R47

Brazil.

7391 SJOSTEDT, P. Contribution à la recherche de la solubilisation d'un cacao en poudre par un carbonate alcalin. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hyg. 41:372-373. 1950. 389.9 Sw6

7392 SPAIN. DELEGACIÓN PENINSULAR PARA CAFE DE LAS CÁMARAS OFICIALES AGRÍCOLAS DE GUINEA. Memoria del año 1949. Madrid, 1950. 28 p. 68.29 Sp1

7393 TESTA, J. Inquiry into coffee prices. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 25: 258-265. Apr. 1950. 68.29 Sa63

7394 THALER, H., and ROOS, W. Über die bestimmung des glycerins im wein mittels perjodsäure. Z. f. Analyt. Chem. 131:24-37. 1950. 384 Z3

7395 TOMBESI, L., and FORTINI, S. Contribution to the study of alcoholic fermentation of musts coming from normal grapes and grapes with Botrytis, in the presence of copper, iron and manganese salts. (In Italian.) Ricerca Sci. 20:982-991. July 1950. 475 It1

7396 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Fact sheet on coffee, production and consumption. Washington, 1950. 8 p. 1.943 F1184

7397 VARTANIAN, M. D. Again on the vacuum method of determining carbon dioxide in wine. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):42-43. July 1950. 95.8 V77

7398 VEGA, J. La Sala Internacional del Vino. Vinos, Viñas y Frutas 45(538):53. July 1950. 9 Ag89

7399 VENEZIAN, M. Observations on the sulphuring of musts in relation to the degree of deterioration of grapes and the use of selected ferments. (In Italian.) Agr. Nuova 2:291-302. Ref. June 1950. 16 Ag8223

7400 WILLIAMS, K. The wine districts and their wines. California 40(9):13. Sept. 1950. 280.8 C12

7401 XANDRI TAGÜENA, J. M. Algunas consideraciones sobre la elaboración de mostos concentrados. III. Siembra [Madrid] 6(7):8-11. July 1950. 15 Si1

Wine musts.

7402 ZNAMENSKII, N. N. Complete fulfillment of obligations under collective agreements. (In Russian.) Vinodel. i Vinograd. SSSR. 10(6):49-50. June 1950. 95.8 V77

Wine industry of U. S. S. R.

#### DAIRY PRODUCTS

7403 AMERICAN DAIRY SCIENCE ASSOCIATION. COMMITTEE ON BUTTER. The future of butter; report, 45th annual meeting, at Cornell University, Ithaca, New York, June 20-22, 1950. South. Dairy Prod. J. 48(5):26,58-60,62. Nov. 1950. 44.8 So83

G. H. Wilster, chairman.

7404 ANDERSON, O. B. Green County's [Wisconsin] gold. Nation's Agr. 25(9):12. Oct. 1950. 280.82 B89

Swiss cheese industry.

7405 ANDRADE, S. S. F. DE. First Dairy Week of the "Candido Tostes" Dairy School. (In Portuguese.) B. do Leite (ser.4)3(36):13,16. June 1950. 44.8 B663

7406 ARNOULD, C. Les crèmes et les crémets. Monit. Agr. 3(129):4. Oct. 1, 1950. 14 M744

Cream and products made from cream.

7407 BEVAN, L. E. W. Southern Rhodesia's shortage of dairy products. Rhodesian Farmer 4(5):9. Aug. 2, 1950. 24 R347

7408 BROCKWAY, J. H. Report of the Iowa milk and ice cream industry. Iowa Dept. Agr. B. 94-J:42-45. 1950. 2 Io9B

7409 BRYANT, C. B. A. They don't work in an office. Amer. Milk Rev. 12(10):90-91,101. Oct. 1950. 44.8 Am38

Work of dairy fieldmen.

7410 BURKHALTER, G. Qualitätsfördernde faktoren in der schwedischen milchwirtschaft. Schweiz. Milchztg. 76:522-523. Oct. 17, 1950. 44.8 Sch92

7411 CAMIRAND, R. Guerre des marchés. Québec Laft. 9(9):28-30. Sept. 1950. 44.8 Q3

Wisconsin cheese industry.

7412 CANGIULLI, A. Livestock increase and dairy industry in the South. (In Italian.) Latte 24:265-266. 268. Aug. 1950. 44.8 L35

Italy.

7413 CAPSTICK, E. The past one hundred years. Austral. Dairy Rev. 18(9):17,26. (To be cont.) Sept. 1, 1950. 44.8 Au73

History in Great Britain.

7414 CARNEIRO FILHO, J. J. The dairy industry in Switzerland. (In Portuguese.) B. do Leite (ser.4)4(38): 9-10. (To be cont.) Aug. 1950. 44.8 B633

7415 CORRY, J. R. The dairy industry in Southern Rhodesia. Rhodesia Agr. J. 47:218-228. May/June 1950. 24 R34

7416 ELMSLIE, W. P. From the outside looking in. Calif. Dairyman 30(18):18-19,36. Oct. 7, 1950. 44.8 C12

California dairy industry.

7417 FLETCHER, A. L. Know your ingredients: milk and milk products. Brit. Baker 121(10):63,65. (Cont) Sept. 22, 1950. 389.8 B772

7418 FRENCH, J. How Morgan County, Colorado, built a \$1,000,000 dairy industry. Agr. Leaders' Digest 31(8):28-29. Sept. 1950. 275.28 Am3

7419 FRENSEL, O. Margarine. (In Portuguese.) B. do Leite (ser.4)4(38):5-7. Aug. 1950. 44.8 B633

7420 FRENSEL, O. The Salte Plan or the "bringing forth of the mountain." (In Portuguese.) B. do Leite (ser.4)3(36):9. June 1950. 44.8 B633

With relation to the dairy industry.

7421 FRENSEL, O. Year's end in the "F. E. L. C. T." [Fábrica-Escola de Laticínios "Cândido Tostes"]. (In Portuguese.) B. do Leite (ser.4)3(36):5,9. June 1950. 44.8 B633

7422 GARASSINI, L. A. Las diferentes clases de leches ácidas fermentadas. Agro [El Valle] 5(13):46-49. Jan./Aug. 1950. 9.95 Ag83

7423 GORDON, G. E. Enough milk for California. Hoard's Dairyman 95:704-705. Oct. 10, 1950. 44.8 H65

7424 HARKNESS, D. A. E. Progress and trends in the dairy industry in Northern Ireland, 1924-49. Soc. Dairy Tech. J. 4:24-29. Oct. 1950. 44.8 So12

7425 HERZ, H. Ein besuch in neuseeländischen molkereien. Schweiz. Milchztg. 76:425-426. Aug. 25, 1950. 44.8 Sch92

7426 HERZ, H. Milk and politics in Australia. (In Dutch.) Zuivelbereiding en -Handel 56:677-678,695-696. (Concl.) Aug. 15-22, 1950. 44.8 N282

7427 HIBBEN, R. C. The ice cream industry's position in the new crisis. Ice Cream Trade J. 46(8):32, 84-86. Aug. 1950. 389.8 Ic2

7428 HOOD, E. G. Studies and problems of Canadian Cheddar cheese. Canad. Dairy & Ice Cream J. 29(9):56, 58,66,68,70. Sept. 1950. 44.8 C162

7429 HURD, A. Progress in milk production. Country Life [London] 108:1339. Oct. 20, 1950. 80 C83

7430 HUTCHINSON, K. T. The milky way. South. Dairy Prod. J. 48(4):182,184,186-187. Oct. 1950. 44.8 So83

The dairy industry.

7431 ISRAR-UL-HAQ. Major ghee problems in Pakistan. Co-op. & Mktg. Rev. 4:201-213. July 1950. 280.28 C78243

7432 JENSEN, H. M. The dairy industry in Denmark in 1949. (In Danish.) Tidsskr. f. Landøkon. 1950: 404-416. Aug. 1950. 11 T43

7433 KRIESEL, H. C. The outlook for dairy products in 1951. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2K89

Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.

7434 LEROY, A. En marge du pèlerinage de l'année sainte. Indus. Lait. [Paris] (n.s.):48:157-161. Sept. 1950. 44.8 In2

Observations on the Italian dairy industry.

7435 LEROY, A. La production laitière en Italie. Voix de l'Élevage (ser.3)6(61):3. Sept. 14, 1950. 44.8 Ac8

7436 MCCLAIN, E. B. Costs vs. profits in the milk plant. (Digest.) South. Dairy Prod. J. 48(4):54,138-139. Oct. 1950. 44.8 So83

7437 MACKENZIE, P. K. Post war changes in the ice cream industry. Soc. Dairy Tech. J. 4:38-42. Oct. 1950. 44.8 So12

Includes discussion.

7438 MCMILLAN, G. Report of fourth annual meeting I.F.A.P. [International Federation of Agricultural Producers] Conference in Sweden. Canad. Dairy & Ice Cream J. 29(9):31-34. Sept. 1950. 44.8 C162

With reference to the dairy industry.



- 7439 MARSHALL, L. M. Milk production in Wales. *Milk Indus.* 31(4):68-70. Oct. 1950. 44.8 M593
- 7440 MICHOT, P., and AVELANGE, R. Essais d'amélioration de la production laitière en Haute-Marne. France. Min. de l'Agr. B. Tech. d'Inform. 51:471-473. July/Aug. 1950. 14 F844B
- 7441 MINUT, J. The dairy industry in Brazil. (In Portuguese.) *Rev. dos Criadores* 21(6):3-7. June 1950. 43.8 R32
- 7442 MORIN, A. Vers une production laitière économique. *Digeste de l'Éleveur* 4(8,i.e.9):26-28. May 1950. 49 D56  
Canada.
- 7443 MUGGLI, Vorschau auf die Halle "Milchwirtschaft" der OLMA St. Gallen 1950. Schweiz. Milchztg. 76:505-506. Oct. 10, 1950. 44.8 Sch92
- 7444 PACIFIC DAIRY & POULTRY ASSOCIATION. 1950 yearbook and directory. Los Angeles, 1950. 76 p. 286.85 P112C
- 7445 PAPIN, J. Introduction à une chronique laitière. *Paysan Franç.* 26(393):8-9. Sept. 1950. 14 P29
- 7446 PISAREV, E. Responsibilities of Chanov butter-makers. (In Russian.) *Moloch. Promysh.* 11(5):5-7. May 1950. 44.8 M734
- 7447 THE PRESENT world situation; southern dairy leaders express their opinions of current trends. *South. Dairy Prod. J.* 48(5):42-44, 48. Nov. 1950. 44.8 So83  
Contains numerous signed statements.
- 7448 RICHARDS, P. Dairying and the defense effort. Washington, U. S. Prod. & Mktg. Admin., 1950. 6 p. 1.956 A2R39  
Talk before the New England Milk Producers' Association, Boston, Oct. 31, 1950.
- 7449 RICHARDS, P. A look ahead on butter. Washington, U. S. Prod. & Mktg. Admin., 1950. 9 p. 1.956 A2R39  
Remarks before the American Butter Institute, Chicago, Nov. 9, 1950.
- 7450 ROBINSON, H. In the land north of '49. *Amer. Butter & Cheese Rev.* 12(10):30-31, 59. Oct. 1950. 44.8 Am37  
Canadian dairy industry.
- 7451 SCATTOLIN, L. L. Ice cream: frozen milk. (In Italian.) *Latte* 24:256. Aug. 1950. 44.8 L35  
The industry in Italy.
- 7452 SHUJA, J. D. Karachi's milk supply. *Co-op. & Mktg. Rev.* 4:214-219. July 1950. 280.28 C78243
- 7453 SIEWERTSEN, C. The importance of an A. V. M. for the dairy industry. II-III. (In Dutch.) *Melk- en Zuivelhandel* 3:187, 214. Aug. 16, Sept. 13, 1950. 44.8 M48
- 7454 SOLLBERGER, W. Aktuelle fragen der schweizerischen milchwirtschaft. *Agrarpolit. Rev.* 7(54):18-35. Sept. 1950. 281.8 Ag824
- 7455 STALL, C. W. Second exposition best yet—dairy show gives industry boost. *Hoosier Farmer* 35(11):20-21. Nov. 1950. 280.82 H76  
On the second annual International Dairy Exposition held in Indianapolis.
- 7456 SVAGR, Z. Dairying in Switzerland. *Austral. Dairy Rev.* 18(9):10, 28. Sept. 1, 1950. 44.8 Au73
- 7457 UNION OF SOUTH AFRICA. DAIRY INDUSTRY CONTROL BOARD. Annual report for the year ended 30th September, 1949. Pretoria, 1949. 61 p. 281.3449 So8  
Text also in Afrikaans.
- 7458 U. S. PRODUCTION AND MARKETING ADMIN. The Philadelphia milk supply. Washington, 1950. 100 p. 1.956 D14P53
- 7459 VEALE, M. Elre's milk products. *Milk Indus.* 31(4):91-93. Oct. 1950. 44.8 M593  
The dairy industry.
- 7460 WHAT'S ahead for 1951? *Ice Cream Trade J.* 46(10):68-72, 152-161. Oct. 1950. 389.8 Ic2  
Statements by various leaders in the ice cream industry.
- 7461 WHITAKER, R. Milk in candy. 1-2. *Candy Indus.* 13(162):5, 8, 10; (163):11, 16, 30. Oct. 24-Nov. 7, 1950. 389.8 C168
- 7462 WILSON, W. J. The future of the cheese industry. *South. Dairy Prod. J.* 48(5):86-88, 94-95. Nov. 1950. 44.8 So83
- 7463 WINN, W. E. What does it cost to operate PMA [Pure Milk Association]? *Pure Milk* 24(10):6. Oct. 1950. 280.28 P97
- 7464 WITTMANN, H. Revolution in der milchwirtschaft! *Milcherzeuger* 8:25-26. July 1950. 43.8 M592
- 7465 ZAHRADKA, L. The dairy industry, a study in progress. *Butter, Cheese & Milk Prod. J.* 41(10):74. Oct. 1950. 286.85 B98Bu
- 7466 ZANOTTI, M. The cheese industry of Ferrara. (In Italian.) *Agr. Ferrarese* 54:111-113. May 31, 1950. 16 Ag87

#### Analysis and Composition

- 7467 ALAIS, C. Isolement de ferments lactiques particuliers au lait de brebis et au fromage de Roquefort *Lait* 30:349-359. July/Aug. 1950. 44.8 L143
- 7468 ALVI, F. R. M. Studies on the use of Richmond's formula for the detection of adulteration in milk. (Abs.) *Co-op. & Mktg. Rev.* 4:249-250. July 1950. 280.28 C78243
- 7469 ASCHAFFENBURG, R., and ROOK, J. A. F. Reviews of the progress of dairy science. Section C. Dairy chemistry and physics. I. Chemistry and physical chemistry. *J. Dairy Res.* 16:390-438. Ref. Dec. 1949. 44.8 J823
- 7470 ASDRUBALI, M. Research on the histamine content of cow's milk. (In Italian.) *Zooprofiliassi* 5:385-387. Aug. 1950. 41.8 Z72  
French summary.
- 7471 BLAIR, G. W. S. Reviews of the progress of dairy science. Section C. Dairy chemistry and physics. II. Rheology. *J. Dairy Res.* 16:439-442. Ref. Dec. 1949. 44.8 J823
- 7472 BOGGS, H. M. Report on frozen desserts. *Assoc. Off. Agr. Chem. J.* 33:547-548. Aug. 15, 1950. 381 As7  
Ice cream.
- 7473 BRINTZINGER, H., and WOLFF, H. Quellen und lösen von kasein. *Kolloid Z.* 118:26-27. July 1950. 384 Z315
- 7474 BRITTIN, W. A., and FAIRING, J. D. Report on insecticides in canned foods. *Assoc. Off. Agr. Chem. J.* 33:599-607. Aug. 15, 1950. 381 As7
- 7475 BROUGHTON, A. Planning to sell those milk cows? *Wis. Agr. & Farmer* 77(19):6. Oct. 7, 1950. 6 W751  
Dairy situation.
- 7476 BROUWER, T. The application of nomograms to the analysis of dried milk. *Nederlands Melk- en Zuiveltijdschr.* 4:81-95. Apr./June 1950. 44.8 N283
- 7477 BRYANT, C. B. A. Habit forming. *Popkess' Dairymen's J.* 37:10. Apr. 1950. 44.8 D142  
Filter disk utilization.
- 7478 BRYANT, C. B. A. Production, a badge of merit for your milk producer. *South. Dairy Prod. J.* 48(4):58, 142-144. Oct. 1950. 44.8 So83  
Sediment test for milk.
- 7479 COPPENS, R. Dosage de l'acide citrique dans le lait. *Gembloux. Inst. Agron. de l'État B.* 17:16-25. 1948/1949. 105.1 G285  
English summary.
- 7480 COULSON, E. J., and STEVENS, H. The serological relationship of bovine whey albumin to serum albumin. *J. Biol. Chem.* 187:355-363. Ref. Nov. 1950. 381 J824
- 7481 DAVIS, J. G. Progress in dairy chemistry. I. *Food Mfr.* 25:451-454. Ref. Nov. 1, 1950. 389.8 F736
- 7482 DOLBY, R. M. A burette for rapid checking of Gerber butyrometers. *J. Dairy Res.* 16:334-335. Dec. 1949. 44.8 J823
- 7483 DOLBY, R. M. The properties of New Zealand butters and butterfats; II. The relation of hardness of New Zealand commercial butter to composition of the butterfat. *J. Dairy Res.* 16:336-347. Dec. 1949. 44.8 J823
- 7484 EDWARDS, G. F. A new method for the detection of heated or reconstituted milk. *Assoc. Off. Agr. Chem. J.* 33:855-860. Aug. 15, 1950. 381 As7  
In ice cream.
- 7485 FORSTER, T. K. The WIA [water-insoluble acids] test for butter. *Butter, Cheese & Milk Prod. J.* 41(10):36, 69-70, 72. Oct. 1950. 286.85 B98Bu
- 7486 GEHRKE, C. W., and ALMY, E. F. Action of mineral ion exchange resins on milk constituents. *Indus. & Engin. Chem.* 42:2344-2347. Ref. Nov. 1950. 381 J825



- 7487 GNAGY, M. J. Report on gums in soft curd cheese. Assoc. Off. Agr. Chem. J. 33:742. Aug.15,1950. 381 As7
- 7488 GONASHVILI, SH. Some chemical properties of milk of Tushin and Georgian sheep. (In Russian.) Moloch. Promysh. 11(6):32-33. June 1950. 44.8 M734
- 7489 GOVORKOV, B. Physical constants of dairy products. (In Russian.) Moloch. Promysh. 11(6):37-38. June 1950. 44.8 M734
- 7490 GRAZIOSI, D. On the differentiation of cooked and raw milk. IV. Experimental study with benzidine. (In Italian.) Prog. Vet. 5:396-401. July 15,1950. 41.8 P942
- 7491 GUILLOT, G., NEVOT, A., and THIEULIN, G. Recherche, dans le lait en nature de certaines bactéries pathogènes pour l'homme. Lait 30:337-349,500-507. (Concl.) July/Aug.-Sept./Oct.1950. 44.8 L143
- 7492 HAAN, A. DE. A buffer solution for the Storch test. (Abs.) Nederlands Melk- en Zuiveltijdschr. 4:122-123. Apr./June 1950. 44.8 N283
- Milk.
- 7493 HARE, J. H. A microbiological procedure for the determination of lysine and its application in the study of storage changes in dried skim milk. (Abs.) Chem. Canada 2:169,175. Oct.1950. 381 C4236
- 7494 HARRIS, K. L. Report on extraneous materials in dairy products and eggs. Assoc. Off. Agr. Chem. J. 33:564-565. Aug.15,1950. 381 As7
- 7495 HERRED, E. O. Report on fat in dairy products. Assoc. Off. Agr. Chem. J. 33:546. Aug.15,1950. 381 As7
- 7496 HILLIG, F. Report on decomposition in dairy products. Assoc. Off. Agr. Chem. J. 33:716-720. Aug.15,1950. 381 As7
- 7497 HOLMES, D. H. A comparison of total bacteria counts of raw and pasteurized milk. Butler U. Bot. Studies 9:197-202. May 1950. 451 B97
- 7498 HORWITZ, W. Report on dairy products. Assoc. Off. Agr. Chem. J. 33:524-528. Aug.15,1950. 381 As7
- 7499 HORWITZ, W., KNUDSEN, L. F., and WEISS, W. Report on phosphatase test in dairy products. Assoc. Off. Agr. Chem. J. 33:529-544. Aug.15,1950. 381 As7
- 7500 HOWARD, I. A., and FISCHER, B. M. Colony count determinations by the roll-tube method in commercial practice. Dairy Indus. 15:918-919. Sept.1950. 44.8 D1427
- 7501 JENSEN, C., and PLATH, E. Factors affecting bacteria count of raw milk. N. Dak. Agr. Expt. Sta. Bimmon. B. 13:21-23. Sept./Oct.1950. 100 N813B
- 7502 JOINER, C. R. Report on sediment tests in milk and cream. Assoc. Off. Agr. Chem. J. 33:552-561. Aug.15,1950. 381 As7
- 7503 KAZANTSEV, P. Device for determining the elasticity and viscosity of the cheese granule. (In Russian.) Moloch. Promysh. 11(6):39-41. June 1950. 44.8 M734
- 7504 KERIMOV, G. Investigation of causes for brined cheese turning blue. (In Russian.) Moloch. Promysh. 11(5):27-30. May 1950. 44.8 M734
- 7505 KESLER, E. M., KNOTT, C. B., and REID, J. J. The effect of hypochlorite and quaternary ammonium compounds, used in udder washes, on the chemical composition and bacterial flora of the milk produced. J. Milk & Food Technol. 13:288-291. Sept./Oct.1950. 44.8 J824
- 7506 KING, J. O. L. Variations in the fat composition of cow's milk. Guernsey Breeders' J. [London] (n.s.) 4(3):43-44. Autumn 1950. 43.8 G932
- 7507 KING, N. The physical structure of ice cream. Dairy Indus. 15:1052-1055. Ref. Oct.1950. 44.8 D1427
- 7508 KING, N. Die physikalische struktur der milch und der milchprodukte. Kolloid Z. 117:180-190. Ref. June 1950. 384 Z315
- 7509 KOROLEV, A. In regard to estimating the fat content in cheese. (In Russian.) Moloch. Promysh. 11(5):21-22. May 1950. 44.8 M734
- 7510 KOROLEV, A. Methods for determining the flavor of cheese. (In Russian.) Moloch. Promysh. 11(6):14. June 1950. 44.8 M734
- 7511 KREVELD, A. VAN. Correlation between bacterial infection and sweet curd in evaporated milk. Nederlands Melk- en Zuiveltijdschr. 4:115-120. Apr./June 1950. 44.8 N283
- 7512 KUGENEV, P. Formula for determining the dry residue of milk. (In Russian.) Moloch. Promysh. 11(6):42-43. June 1950. 44.8 M734
- 7513 MCDOWELL, A. K. R. The estimation of vitamin A in butter. J. Dairy Res. 16:348-355. Ref. Dec.1949. 44.8 J823
- 7514 MANTILLARO, R. Considerations and remarks about the content in chlorine of cow's colostrum ante and post-partum: mathematico-statistical elaborations; (experimental contribution) (2nd note). (In Italian.) Mondo del Latte 1950:398-399,401-403,405. Aug.1950. 44.8 M74
- English summary.
- 7515 MARTIN, A. Causes des variations du pourcentage de gras du lait et de la crème. Québec Lait. 9(9):16-23. Ref. Sept.1950. 44.8 Q3
- 7516 MOHR, W., and KAUFMANN, W. Die temperaturabhängigkeit des spezifischen volumens von rahm und milchfett. Fette u. Seifen 52:537-541. Ref. Sept.1950. 384 C422
- 7517 MÖLLER, E. F. Die bedeutung der wuchsstoffe im stoffwechsel der milchsäurebakterien. Milchwissenschaft 5:313-316. (To be cont.) Sept.1950. 44.8 M5933
- 7518 MORTON, R. K., and VINCENT, J. M. The influence of time and temperature of storage on dye-reduction tests in milk. I. Reduction of methylene blue. J. Dairy Res. 16:310-319. Ref. Dec.1949. 44.8 J823
- Appendix on regression methods, by D. B. Duncan, p. 320-321.
- 7519 NEWMAN, R. W. Escherichia coli as an index to sanitation. Calif. Dept. Agr. B. 39:137-143. Ref. July/Sept.1950. 2 C12M
- In pasteurized milk.
- 7520 PARSONS, A. T. Determination of the solubility of roller-dried milk powder. J. Dairy Res. 16:377-378. Dec.1949. 44.8 J823
- 7521 PICHUGINA, N., KORSKOVA, A., and FEIGINA, B. Determination of fat content in ice cream. (In Russian.) Moloch. Promysh. 11(5):35-37. May 1950. 44.8 M734
- 7522 POLIS, B. D., and SHMUKLER, H. W. Aldolase in bovine milk. J. Dairy Sci. 33:619-622. Sept.1950. 44.8 J822
- 7523 POLIS, B. D., SHMUKLER, H. W., and CUSTER, J. H. Isolation of a crystalline albumin from milk. J. Biol. Chem. 187:349-354. Ref. Nov.1950. 381 J824
- 7524 POLONOVSKI, M., BAUDU, I., and NEUZIL, E. Estudio físico-químico de la leche. Rev. de Sanidad Vet. 5:420-430. June 15,1950. 41.8 R3222
- 7525 POSTHUMUS, G. Note on the method of carrying out the Storch test. (Abs.) Nederlands Melk- en Zuiveltijdschr. 4:122. Apr./June 1950. 44.8 N283
- Milk.
- 7526 RESUGGAN, J. C. L. Quaternary ammonium compounds and the phosphatase test. Dairy Indus. 15:928. Sept.1950. 44.8 D1427
- 7527 ROULIN, G. Nouvelle technique pour la recherche du bacille de Koch [Mycobacterium tuberculosis] dans le lait par culture (application de la méthode d'Ogawa). Inst. Pasteur Ann. 79:235-238. Aug.1950. 44.8 An75
- 7528 RUEHE, H. A. The W.I.A. [water insoluble acids] and butyric acid tests for butter. Butter Ideas 4(3), 8 p. May 1950. 44.8 B984
- 7529 SCHWARZ, G., and EFFERN, J. Die bestimmung eines molkenzusatzes in milch. Molk.-Ztg. [Hildesheim] 4:899-900. Aug.3,1950. 44.8 M735
- 7530 SCHWARZKOPF, V. Effect of weigl can design on butterfat samples. Milk Dealer 40:176-182. Oct.1950. 44.8 M595
- 7531 SHORLAND, F. B. C<sub>18</sub> unsaturated acids of butterfat. Nature [London] 166:745-746. Ref. Oct.28, 1950. 472 N21
- 7532 STERNBERG, J., and DEMAUX, G. Séparation chromatographique des fractions phosphorées radioactives du lait. Paris. Acad. des Sci. Compt. Rend. 231:524-526. Sept.4,1950. 505 P21
- 7533 THOMAS, S. B., and others. Heat resistant bacteria in raw milk. III. Occurrence of thermophilic bacteria in farm milk supplies. Soc. Dairy Tech. J. 4:51-60. Oct.1950. 44.8 S012
- D. G. Griffiths, B. F. Thomas, M. Humphreys, and D. Ellison, joint authors.



7534 THOMASOW, J. Über enzyme des Bacterium linens. *Kieler Milchwirt. Forschber.* 2:35-62. Ref. 1950. 44.9 K542

During cheese ripening.

7535 THOMPSON, V. E. Bacteria drown in goat milk. *Dairy Goat J.* 28(11):6. Nov.1950. 40.18 M592

7536 TOBIAS, J., and TRACY, P. H. Basic viscosity of ice cream mixes. *Ice Cream Trade J.* 46(10):64,183. Oct.1950. 389.8 Ic2

7537 VESELOVSKAIA, N. Water and solids-not-fat content in melted butter. (In Russian.) *Moloch. Promysh.* 11(6):43-44. June 1950. 44.8 M734

7538 WAITE, R., and WHITE, J. C. D. The composition of the soluble and insoluble portions of reconstituted milk powders. *J. Dairy Res.* 16:379-389. Ref. Dec.1949. 44.8 J823

7539 WEBER, A. L. Report on methods for preparation of butter samples. *Assoc. Off. Agr. Chem. J.* 33:544-546. Aug.15,1950. 381 As7

#### Consumption and Utilization

7540 COTTON, W. P. Consumption of dairy products in urban North Carolina. *N. C. Agr. Expt. Sta. B.* 371,52 p. Aug.1950. 100 N81

7541 GALLIKER, L. Body and texture preferences vary with regional markets. *Canad. Dairy & Ice Cream J.* 29(10):66,68,80. Oct.1950. 44.8 C162

7542 HANAU, D. Die gründe für den geringen milchverbrauch. *Molk.-Ztg. [Hildesheim]* 4:1077-1078. Sept.14,1950. 44.8 M735

7543 HEYDT, G. Möglichkeiten der magermilchverwertung. *Molk.-Ztg. [Hildesheim]* 4:901-902. Aug.3, 1950. 44.8 M735

7544 JONES, E. B. Consumer preferences for milk. *Farm & Home Sci. [Utah Sta.]* 11:62,64. Sept.1950. 100 UtlF

7545 KHUNDANOV, L. E. Sour milk product, "kurunga," as a means in the treatment of tuberculosis. (In Russian.) *Priroda* 39(6):52-53. June 1950. 410 P933

7546 KIMBALL, F. W., and NICKEL, D. Formula for forecasting ice cream consumption. *Ice Cream Trade J.* 46(10):88-89,180. Oct.1950. 389.8 Ic2

7547 LUKE, H. A. Utilization and pricing of milk under the New York Milk Marketing Order. *N. Y. (Cornell) Agr. Expt. Sta. B.* 866,124 p. Sept.1950. 100 N48C

7548 PALANTI, G. B. How to increase milk consumption. (In Italian.) *Not. Agr. [Mantova]* 6(32/33):1-2. Aug.25,1950. 16 N845

Use of milk in other foods.

7549 RUEHE, H. A. Closed doors. *Butter Ideas* 4(5),8 p. Sept.1950. 44.8 B984

Butter consumption.

7550 SMITH, R. T. The guinea pig of merchandising should be the ice cream consumer! *Canad. Dairy & Ice Cream J.* 29(10):70,72,74,76. Oct.1950. 44.8 C162

#### Distribution, Marketing, and Transportation

7551 ACKER, J. We haven't seen anything yet. *Feedstuffs* 22(37):47-48. Sept.16,1950. 286.81 F322

Need for feed industry to promote consumption of dairy and poultry products.

7552 ALEXANDER, W. H. Milk marketing in the north Louisiana Upland Cotton Area. *La. Agr. Expt. Sta. B.* 443,28 p. June 1950. 100 L93

7553 BEEMAN, G. L. Building community good will. *Milk Dealer* 39(12):49,58-59. Sept.1950. 44.8 M595

7554 BENTERUD, J. E. The responsibility for the mountain and farm butter marketing crisis. (In Norwegian.) *Meieriiposten* 39:581-586. Aug.19,1950. 44.8 M47

7555 BRETHOUR, C. L. Your part in a public relations job. *Ontario Milk Prod.* 26:74-75. Sept.1950. 44.8 On8

Farmers.

7556 BURT, H. B. Let's conquer our fears! (And sell ice cream). *South. Dairy Prod. J.* 48(5):36,38-39. Nov.1950. 44.8 S083

7557 CAMBRIDGE CO-OPERATIVE DAIRY CO. Forty-ninth annual report and balance sheet for year ended 31st May, 1950. *Cambridge, 1950.* 11 p. 280.2449 C14

7558 CARLINER, L. A. A warning and a challenge to ice cream manufacturers. *South. Dairy Prod. J.* 48(4):38,104,106. Oct.1950. 44.8 S083

Effect of low-fat frozen desserts on sale of ice cream.

7559 FAIR, E. W. Slogans sell ice cream. *Ice Cream Trade J.* 46(10):66,186. Oct.1950. 389.8 Ic2

7560 FORTESCUE, H. R. The alternatives before you. (Sum.) *Brit. Goat Soc. Mon. J.* 43:203-204. Oct. 1950. 40.19 B77M

Marketing goats' milk and other products.

7561 GUNDLACH, G. P. Increasing ice cream sales in today's market. *Confectionary-Ice Cream World* 44(16) 2,26. Oct.20,1950. 389.8 C767

7562 GUNDLACH, G. P., and ESMOND, C. W. Sales still drop—Is our foundation weak? *Ice Cream Field* 56(4):104,117. Oct.1950. 389.8 Ic23

7563 GUSTAFSSON, R. American membership; women and youth organizations of the New York milkshed. (In Swedish.) *SL-kontakt* 1950:85-88. 11 Sv288

The Dairymen's League Cooperative Association.

7564 HAWTHORNTHWAIT, E., and PENNINGTON, M. E. K. Marketing goats' milk. Some further suggestions. *Brit. Goat Soc. Mon. J.* 43:174-175. Sept.1950. 40.19 B77M

7565 HERZER, F. H. Better quality milk sells extra pounds. *Swift's Dairy & Poultry News* 5(3):1-2. Summer 1950. 49.9 Sw5

7566 HIRSCH, D. E. Dairy co-ops at the half-century mark. *News Farmer Coop.* 17(7):12-14. Oct. 1950. 166.2 N47

7567 HOFER, H. Zur kenntnis des milchsammel-systems und der milchanlieferungsverhältnisse in der Schweiz. *Schweiz. Milchztg.* 76:497. Oct.6,1950. 44.8 Sch92

7568 HOFER, M. Zum neuen milchwirtschafts-gesetz. *Kärntner Bauer* 100:265-267. Aug.10,1950. 19 K14

Marketing and price regulation.

7569 HOLM, W. K. Three day delivery works well in Columbus. *Amer. Milk Rev.* 12(10):62,64,66,109. Oct. 1950. 44.8 Am38

7570 HOWE, D. K. Nation's leaders shape America's food habits; they follow the voice of NDC [National Dairy Council]. *Milk Plant Mon.* 39(10):100-101. Oct.1950. 44.8 C884

7571 HUBBARD, E. R. Examining ice cream distribution costs. *Ice Cream Trade J.* 46(8):34-35,86-88. Aug.1950. 389.8 Ic2

7572 JOHNSON, P. C. New agreement; it's an important turning point in amazing history of Pure Milk [Association]. *Prairie Farmer, Gen. Ed.* 122(19):40-41. Oct.7,1950. 6 P833

7573 KEUNE, O. Der buttermarkt in Deutschland und Europa. *Deut. Landwirt. Presse* 72(17):13. Aug.5, 1950. 18 D482

7574 KEUNE, O. Marktbeobachtung als grundlage vorschauender marktpolitik. *Molk.-Ztg. [Hildesheim]* 4:921. Aug.10,1950. 44.8 M735

Milk.

7575 KIEFER, A. Buttermarkt und butterpreis. Eine wissenschaftliche forschung. *Molk.-Ztg. [Hildesheim]* 4:897-899. Aug.3,1950. 44.8 M735

7576 KIMBLE, F. Ice cream's "eye appeal" is a colourful sales producer. *Canad. Dairy & Ice Cream J.* 29(10):62,64. Oct.1950. 44.8 C162

Includes the role of color.

7577 KOHR, L. A. About milk and milk dealers. *Milk Dealer* 40:174-175. Oct.1950. 44.8 M595

7578 MAPP, L. C. Farming in Socialist England; a first-hand account of dairying under Government control; how the Milk Marketing Board works and results to date. *Hoards Dairyman* 95:700-701. Oct.10,1950. 44.8 H65

7579 MOLER, W. B. Daily retail delivery would be suicide. *Amer. Milk Rev.* 12(10):68,70,108. Oct.1950. 44.8 Am38

7580 MORRINSVILLE CO-OPERATIVE DAIRY CO. Twenty-eighth annual report and balance sheet, for year ended 31st May, 1950. *Hamilton, 1950.* 12 p. 280.2449 M83

New Zealand.

7581 MULDOVAN, A. Is merchandising of butter lagging? *Canad. Dairy & Ice Cream J.* 29(10):78,80. Oct.1950. 44.8 C162



7582. NAEGELY, F. Dairy Month is well timed. G. L. F. Week. Serv. Sched. 15(14):3. Oct.2,1950. 280.28 G113W

7583. ORLOVA, L. Transportation of milk in tank cars. (In Russian.) Moloch. Promysh. 11(5):14-16. May 1950. 44.8 M734

7584. OSBORNE, C. The first of its kind in Scotland. Dairy Indus. 15:916-917,925. Sept.1950. 44.8 D1427

Cooperative pasteurization and marketing of milk.

7585. PARSONS, H. What consumers think about milk and milk prices. Ontario Milk Prod. 26:79,86. Sept.1950. 44.8 On8

7586. PETERSEN, N. Rückläufige entwicklung auf dem weltbuttermarkt. Molch.-Ztg. [Hildesheim] 4:977-978. Aug.24,1950. 44.8 M735

7587. PHILLIPS, H. The bottle on the doorstep and how it got there. Farmers Wk. [London] 33(16):59-60. Oct.20,1950. 10 F2226

History of urban milk retailing in Great Britain.

7588. PICKETT, J. Over the carcass of the grade B producer. Calif. Farmer, North. Ed. 193:244-245. Sept.9,1950. 6 C126

Milk marketing and price problems, California.

7589. POTE, H. W. You can increase your milk sales. Dairy Goat J. 28(11):4-5. Nov.1950. 40.18 M592

7590. PUNDERSON, J. M. Midwest questions [National] Milk Producers Fed. stand. Milky Way 8(2):2,4. Sept.1950. 280.28 M595

7591. ROSSI, R. P. Why have the milk centrals changed? (In Italian.) Colt. e Glor. Vinc. Ital. 96:219-220. Aug.15/30,1950. 16 C72

7592. SEARLES, A., JR. Route break-even points for the small dairy; a simple method of determining sales volume needed to break even on delivery routes. Milk Plant Mon. 39(10):54,56,58. Oct.1950. 44.8 C864

7593. SMITH, R. T. Costs of ice cream distribution. Ice Cream Trade J. 46(6):40-41,105. June 1950. 389.8 Ic2

7594. TENTONI, R. Four fallacies on the milk centrals. (In Italian.) Latte 24:257-258. Aug.1950. 44.8 L35

Italy. 7595. TRENDTEL. Milchpropaganda als gebot der zeit. I. Molch.-Ztg. [Hildesheim] 4:1008. Aug.31,1950. 44.8 M735

Germany. 7596. ULRICH, W. Milchwerbung und preisbehörde. Deut. Milchhandels-Ztg. 72:436-437. July 21,1950. 44.8 D48

7597. VAGELPOHL, H. Rindertuberkulose und trinkmilchabsatz-werbung. Molch.-Ztg. [Hildesheim] 4:1081-1082. Sept.14,1950. 44.8 M735

#### Grading, Inspection, Standardization, and Quality

7598. AAS, G. Ambulating control or control courses. (In Norwegian.) Meieriposten 39:560-563. Aug.12,1950. 44.8 M47

Dairy products.

7599. BECK, G. Für Nürnbergs kinder eine milch aus tuberkulosefreien überwachten rinderbeständen. Milchwissenschaft 5:287-289. Sept.1950. 44.8 M5933

English summary.

7600. BELOUSOV, A. Acidity and quality of cheese. (In Russian.) Moloch. Promysh. 11(6):9-14. June 1950. 44.8 M734

7601. BONIN, C. M. Notes sur la classification et les analyses du lait écrémé en poudre. Québec Lait. 9(9):32-33. Sept.1950. 44.8 Q3

Also in Terre de Chez Nous 22(33):9,23. Oct.11,1950. 7 T27

7602. CANONNE, F. La prison ou le contrôle laitier? Nord Agr. 6(40):1. Aug.11,1950. 14 N75

France.

7603. CHRISTENSEN, S. K. New York State milk control: functions and costs. N. Y. Agr. Col. Farm Econ. 175:4513-4516. July 1950. 280.8 C812

7604. CONNECTICUT. COMMISSIONER OF FOOD AND DRUGS. Regulation concerning the manufacturing and handling of frozen desserts and frozen dessert mix. Hartford,1949. 6 p. 389.5 C763

7605. CONNECTICUT. COMMISSIONER OF FOOD AND DRUGS. Regulation governing the manufacture and sale of dietary ice cream. Hartford,1949. 1 p. 389.5 C763Re

7606. COSMA, G. Quality and characteristics of milk and recent scientific discoveries. (In Italian.) Agricoltore [Milano] (n.s.)30(49/50):1-2. Dec.17,1949. 16 Ag862

7607. CRIVELLI, P. A. Meters for measuring the flow of milk. Austral. Dairy Rev. 18(8):23. (Cont.) Aug.1,1950. 44.8 Au73

Describes the rotameter.

7608. DOAN, F. J. Antibiotics in milk. Milk Dealer 40:102,104,106. Oct.1950. 44.8 M595

Residues from mastitis treatment.

7609. ERICHSEN, I. Bacteriological control in the creameries. (In Norwegian.) Meieriposten 39:619-620. Sept.2,1950. 44.8 M47

7610. EVENSEN, W., and EMILSSON, E. Control of dairy operations. (In Norwegian.) Meieriposten 39:563-570. Aug.12,1950. 44.8 M47

7611. FICHERA, A. Prevention of fraud in dairy products. (In Italian.) Latte 24:255. Aug.1950. 44.8 L35

Italy.

7612. GRAY, A. W. Federal control of interstate milk. Amer. Milk Rev. 12(10):10,86. Oct.1950. 44.8 Am38

7613. HARPER, R., and BARON, M. Cheese grading. J. Dairy Res. 16:363-367. Dec.1949. 44.8 J823

7614. HIBBETT, B. The technical control of a group of manufacturing creameries. Soc. Dairy Tech. J. 4:16-22. Oct.1950. 44.8 So12

Milk tests and sanitation.

Includes discussion.

7615. HIRSCHMANN, R. Die verbesserung der trinkmilchqualität in der praxis. Molch.-Ztg. [Hildesheim] 4:951-953. Aug.17,1950. 44.8 M735

7616. JACKSON, N. Quality conscious. West. Farm Life 52(20):7. Oct.15,1950. 6 R153

Milk quality, New Mexico.

7617. KEESTRA, F. Control of the quality of cheese for export. (In Dutch.) Nederlands Melk- en Zuivel-tijdschr. 4:148-155. Apr./June 1950. 44.8 N283

Includes discussion.

7618. KNIPLING, E. F. DDT and related insecticides in milk. J. Milk & Food Technol. 13:283-287. Ref. Sept./Oct.1950. 44.8 J824

Also in Certified Milk 25(10):14-15,18-19. Oct.1950. 44.8 C33

7619. LEUVER, P. Quality control of dairy products. (In Dutch.) Netherlands. Landbouwvoortlichtingsdienst. Maandbl. 7:251-260. June 1950. 12 N383M

7620. LUSUARDI, A. Origin labelling of cheeses. (In Italian.) Latte 24:267-268. Aug.1950. 44.8 L35

Italy.

7621. NELSON, C. B., and GIBLIN, M. Milk-borne brucellosis in Minnesota. Minn. Med. 33:981-982. Oct. 1950. 448.8 M66

7622. PATTON, S. The methyl ketones of Blue cheese and their relation to its flavor. J. Dairy Sci. 33:680-684. Sept.1950. 44.8 J822

7623. PERSAI, D. P., and BARNICOAT, C. R. Factors influencing the keeping quality of ghee. J. Dairy Res. 16:356-362. Ref. Dec.1949. 44.8 J823

7624. PETTE, J. W. The importance of the butter-aroma for the quality of factory butter. (Abs.) Nederlands Melk- en Zuivel-tijdschr. 4:121. Apr./June 1950. 44.8 N283

7625. QUADRI, P. About the chief causes of "vescicotti" in the Parmesan cheese. (In Italian.) Mondo del Latte 1950:349-352,355. July 1950. 44.8 M74

English summary.

7626. REID, W. H. E. The ice cream clinic; southern sponsors project designed to improve quality. South. Dairy Prod. J. 48(5):35,48. Nov.1950. 44.8 So83

7627. RUEHE, H. A. Winter butter. Butter Ideas 4(1),8 p. Jan.1950. 44.8 B984

Quality.

7628. SCHÖNBERG, F. Verstärkte mitarbeit der tierärzte in der milchhygiene - eine notwendigkeit. Lebensmitteltierarzt 1:91-94. June 1950. 41.8 L49

7629. SHEPHERD, E. Problems of food poisoning. 2-3. Ice Cream Indus. 26:303-304,457-458. Sept.-Oct. 1950. 389.8 Ic24

2, Forms in which ice cream may be suspected, but is quite unlikely to be the cause; 3, Real dangers in ice cream manufacture.

7630. SMILLIE, D. M. Milk testing control in Scotland. Dairy Indus. 15:913-915,925. Sept.1950. 44.8 D1427



7631 STAFFE, A., and KARNICKA, H. Ueber den einfluss eines pflanzlichen hemmstoffes auf die haltbarkeit der milch. Schweiz. Milchztg. 76:513-515, 517-519. Oct. 13, 1950. 44.8 Sch92

7632 SVENSKA SMÖRPROVNINGARNA. Svenska Smörprovningarnas verksamhet under år 1949 [Activity of the Swedish Butter Testing Station during the year 1949]. Sweden. Lantbrstyr. Meddel. Ser. B: Lantbravd. 1949(5), 42 p. 1950. 11 Sw3Me

7633 SWAYER, W. J. A new PMA marketing agreement. Pure Milk 24(9):4-5. Sept. 1950. 280.28 P97 Milk.

7634 TRACY, P. H. Should there be a single standard of quality for milk? (Condensed.) Butter, Cheese & Milk Prod. J. 41(10):32, 56-57. Oct. 1950. 286.85 B98Bu

7635 USUELLI, F. Biological aspects of production and consumption of milk. 2. Causes operating against the increase of milk consumption. (In Italian.) Humus 6(7): 6-8. July 1950. 16 H88

Discusses digestibility and flavor of milk.

7636 WASANI, S. G. More and pure milk. Poona Agr. Col. Mag. 41:144-145. Aug. 1950. 22 P79

7637 WILSON, G. S. Dairy research: the bacteriological grading of milk. I. Dairy Indus. 15:926-927. Sept. 1950. 44.8 D1427

7638 ZIMMERMAN, C. The dairy fieldman sounds off. Capper's Farmer 61(11):16, 46. Nov. 1950. 6 M693 Program to improve the quality of milk and cream in Iowa.

#### Packing and Packaging

7639 BAKER, L. A. E., and GOODALE, T. The effect of omitting warm rinses in bottle washing. Soc. Dairy Tech. J. 4:43-47. Oct. 1950. 44.8 So12

7640 BAKER, L. A. E. The use of broth for sterility tests on milk bottles and the effect of ageing the rinse. Soc. Dairy Tech. J. 4:47-49. Oct. 1950. 44.8 So12

7641 HALBERSTADT, M. Automatic packaging machinery saves much time in ice cream plants. (Abs.) Confectionery-Ice Cream World 44(18):14. Nov. 3, 1950. 389.8 C767

7642 JACOBSEN, D. H. Efficient can washer operation. Cherry-Burrell Circle 1950:7, 30. Sept./Oct. 1950. 44.8 C42

7643 MONSEN, K. J. Packing of dairy products. (In Norwegian.) Meieriposten 39:636-641. Sept. 9, 1950. 44.8 M47

7644 PEDERSEN, A. H. Packaging of dairy products. (In Norwegian.) Meieriposten 39:577-580. (To be cont.) Aug. 19, 1950. 44.8 M47 Scandinavia.

Discussion, by H. Svedberg, p. 621-623.

#### Prices, Price Control, and Rationing

7645 BISET, L. L'affaire du lait de Paris. Voix de l'Elevage (ser. 3) 6(62):1. Sept. 25, 1950. 44.8 Ac8 Prices.

7646 BISET, L. Le prix du lait: un problème politique. Voix de l'Elevage (ser. 3) 6(61):1. Sept. 14, 1950. 44.8 Ac8 France.

7647 CONNER, M. C. Where are Virginia milk prices? Va. Farm Econ. 124:5-8. Aug. 1950. 275.29 V813

7648 FEDDERSEN, H. C. Classified plan is defined. Miami Val. Dairyman 21(10):5, 8. Sept. 1950. 280.28 M582

Pricing of milk in accordance with classification for use.

7649 HARMEL, L. Prix et réalités. Voix de l'Elevage (ser. 3) 6(61):1. Sept. 14, 1950. 44.8 Ac8 Butter in France.

7650 HIRSCH, D. E. How bargaining co-ops operate. Milk Dealer 40:52, 54, 56, 58, 60, 62. Oct. 1950. 44.8 M595 Price bargaining cooperatives.

7651 JONES, E. B., and LAMBORN, E. W. Lowered price does not greatly increase consumption of milk. Farm & Home Sci. [Utah Sta.] 11:63-64. Sept. 1950. 100 UtlF

7652 MARTIN, P. Ah, le prix du beurre! Défense Agr. de la Beauce et du Perche 47:345. Sept. 16, 1950. 14 D36

7653 MATHIS, A. G., and HIRSCH, D. E. Butter pricing by Iowa creameries. U. S. Farm Credit Admin. C. C-136, 38 p. May 1950. 166.2 C4923

7654 NEW YORK STATE. TEMPORARY COMMISSION ON AGRICULTURE. Annual report, 1949-50, 1. An analysis of the spread between farm and consumer milk prices in Buffalo under present practices. Albany, 1950. 73 p. 281.9 N482

7655 PIERCE, C. W. Formula pricing Class I milk in Philadelphia. Pa. Farm Econ. 39:5-7. July 1950. 275.29 P382Pf

7656 PUERTO RICO. COMISION ESPECIAL NOMBRADO PARA ESTUDIAR LA SITUACION DE PRECIOS DE LA LECHE. Estudio alrededor del precio de la leche de vaca. P. R. Dept. de Agr. y Com. Almanaque Agr. de P. R. 1950:32-55. 8 AL62 Includes cost data.

7657 REHWINKEL. Eine gefährliche entwicklung; zur frage der milch- und butterpreise. Hannoversche Land- u. Forstwirt. Ztg. 103:482-483. May 13, 1950. 18 H194

7658 WAKEFIELD, H. S. Pattern for disaster; do you want to keep our milk pricing law on the books? South. Calif. Grocers J. 37(39):4, 12. Oct. 13, 1950. 286.28 So82

7659 YOUNG, H. P. Intermilkshed cooperation. Metrop. Milk Prod. News 10(10):7, 17. Oct. 1950. 280.28 M56 Prices and marketing.

#### Processing and Storage

7660 ADAM, A. Homogenisierte und D-vitaminsierte kinder-vorzugsmilch. Milchwissenschaft 5:283-286. Ref. Sept. 1950. 44.8 M5933 English summary.

7661 ANDERSEN, A. B. Neutralization of cream. (In Portuguese.) Rev. Ceres 8:295-299. Jan./June 1950. 9.2 C332

7662 ARBUCKLE, W. S. Emulsifiers in ice cream. Ice Cream Trade J. 46(10):106, 114. Oct. 1950. 389.8 Ic2

7663 ARBUCKLE, W. S. Stabilized berries for strawberry ice cream. Ice Cream Field 56(4):80-82. Oct. 1950. 389.8 Ic23

7664 AVANZA, L. El cuidado de los animales y el aseo son esenciales en el tambo. Mundo Agr. 2(15):45-48. Aug. 1950. 9 M92

7665 BACHMANN, H. Warum keilmarme, saubere gewinnung der milch? Molck.-Ztg. [Hildesheim] 4:926-927. Aug. 10, 1950. 44.8 M735

7666 BARAGAR, A. E. Pasteurization at home insures safe milk. Nebr. Elect. Farmer 4(10):5, 21-22. Oct. 1950. 335.8 N27

7667 BARBER, F. W. Quaternary ammonium compounds in the dairy industry. J. Milk & Food Technol. 13:266-274. Ref. Sept./Oct. 1950. 44.8 J824

7668 BENSON, M. Production of milk dietetic beverage, buttermilk. (In Russian.) Moloch. Promysh. 11(5):30-34. May 1950. 44.8 M734

7669 BENTERUD, T. Gudbrandsdal cheese G. 35. (In Norwegian.) Meieriposten 39:608-610. Aug. 26, 1950. 44.8 M47

7670 BERGUM, A. T., and FRAMHUS, O. Experiments using fan and propeller in the hydrolysis of whey. (In Norwegian.) Norges Landbrhøgsk. Meld. 30:81-114. 1950. 104 N762M

7671 BOMPARD, L., and ROUSSIAUX, P. Par de petits réfrigérateurs individuels; la coopérative laitière de Mantes améliore la qualité du lait de ses adhérents. J. de la France Agr. 6:1085, 1088. Sept. 1/7, 1950. 14 J829

7672 CANADA. DEPT. OF AGRICULTURE. Producing pure milk. Canada. Dept. Agr. C. 188, 4 p. July 1950. 7 C16C Sanitation.

7673 CANADA. DEPT. OF AGRICULTURE. DIV. OF BACTERIOLOGY AND DAIRY RESEARCH. Cooling milk on the farm. Canada. Dept. Agr. C. 186, 4 p. July 1950. 7 C16C

7674 CARIZA, R. A. Obtención de leche sana, limpia y fresca. Rev. SanCor 8(94):45. Aug. 1950. 280.28 R322

7675 CAULFIELD, W. J. Fruit flavors—and others—must be "tops." Ice Cream Field 56(4):90, 92-94, 108-109. Oct. 1950. 389.8 Ic23

7676 CHAPLIN, C. E., and JOHNS, C. K. The influence of alkalinity on the germicidal action of hypochlorites. J. Dairy Res. 16:322-326. Ref. Dec. 1949. 44.8 J823



- 7677 CHERBULIEZ, E., and BAUDET, P. Recherches sur la caséine. VI. Helvet. Chim. Acta 33: 1673-1688. Ref. 1950. 385 H36
- 7678 CLEMENTS, P. G. Detergency in dairies. Dairy Indus. 15:1031-1033. Oct.1950. 44.8 D1427
- 7679 COX, G. A., and WHITEHEAD, H. R. Chemical sterilization of dairy equipment. J. Dairy Res. 16:327-333. Dec.1949. 44.8 J823
- 7680 DAHLBERG, A. O. Reconstituted milk from low heat nonfat dry milk solids and dry milk fat. (Extr.) Butter, Cheese & Milk Prod. J. 41(10):26-27,58,60. Oct. 1950. 286.85 B98Bu
- 7681 DAM, W. VAN. Concentration of minerals in the manufacture of butter. (In Dutch.) Zuivelbereiding en -Handel 56:859-861. Oct.3,1950. 44.8 N282
- 7682 DAVILA, M. A. Quesos fundidos. Charla Rur. 136:16-17. Jan.1950. 9 C37
- 7683 DECKER, C. W. Chocolate ice cream. Ice Cream Trade J. 46(9):34-35,93-94. Sept.1950. 389.8 Ic2
- 7684 DEMETER, K. J. Bakteriologie im kuhstall. Allgäuer Bauernbl. 18:474-476. Aug.24,1950. 18 AL53
- 7685 D'ÍACHENKO, P. In regard to the theory of rennet fermentation of casein. (In Russian.) Moloch. Promysh. 11(6):27-32. June 1950. 44.8 M734
- 7686 DUPLAN, J. H. Increased research is needed to insure greater milk consumption. Canad. Dairy & Ice Cream J. 29(10):82,86,88. Oct.1950. 44.8 C162
- 7687 EDMONDSON, R. E. Milk drying. Soc. Dairy Tech. J. 4:11-16. Oct.1950. 44.8 So12
- 7688 ELLIKER, P. R. Quarternary ammonium compounds. Amer. Milk Rev. 12(10):39-40,42,105. Oct.1950. 44.8 Am38
- 7689 ENGLAND, C. W. Good housekeeping in the ice cream plant. Ice Cream Rev. 34(3):50,104-105. Oct. 1950. 389.8 Ic22
- 7690 FERNÁNDEZ, G. M. Preparación del yoghurt. Res 18:25106. Aug.20,1950. 286.85 R31
- 7691 FLEISCHMAN, F. F., JR., WHITE, J. C., and HOLLAND, R. F. Glass lines: do A-1 job; no 'take down' to clean. Food Indus. 22:1686-1690,1821,1823. Oct. 1950. 389.8 F737
- 7692 FLORA, C. C., DAVIS, L. L., and HOLDAWAY, C. W. Concentrated essences for use in ice cream. Ice Cream Field 56(4):114,116. Oct.1950. 389.8 Ic23
- 7693 FLORA, C. C., DAVIS, L. L., and HOLDAWAY, C. W. Concentrated fruit essences in strawberry and peach ice cream. Ice Cream Trade J. 46(10):112,128-129. Oct.1950. 389.8 Ic2
- 7694 FRITCH, I. Butter making is part of goat raising. Dairy Goat J. 28(10):5. Oct.1950. 40.18 M592
- 7695 GENIN, G. Les colles de caséine. Lait 30: 574-578. Sept./Oct.1950. 44.8 L143
- 7696 GIBSHMAN, M., and MANENKOVA, A. Production of starters [for butter and cheese] at the factory. (In Russian.) Moloch. Promysh. 11(5):40-41. May 1950. 44.8 M734
- 7697 GOROKHOV, V. On the cheese lyre. (In Russian.) Moloch. Promysh. 11(5):39. May 1950. 44.8 M734
- 7698 GRANT, F. M. Clean milk production. U. S. D. A. Farmers' B. 2017,23 p. Aug.1950. 1 Ag84F
- 7699 GRISHCHENKO, A. On the aggregation of fat globules in the process of cream churning. (In Russian.) Moloch. Promysh. 11(6):34-36. June 1950. 44.8 M734
- 7700 GUIDAZIO, C. F. Cómo entregar leche de calidad. Rev. SanCor 8(93):18. July 1950. 280.28 R322
- 7701 HALLER, H. S., and BELL, R. W. Improving the keeping quality of frozen homogenized milk. (Abs.) Milk Dealer 40:98. Oct.1950. 44.8 M595
- 7702 HAYSE, MRS. W. Kitchen variety hard cheese is easily made. Dairy Goat J. 28(10):4-5. Oct.1950. 40.18 M592
- 7703 HENRY, J. Gelatine, as stabilizer, improves ice cream. Confectionery-Ice Cream World 44(15):28,52. Oct.13,1950. 389.8 C767
- 7704 HERNANDO, E. A. Orientación, cuidado y transporte de la crema. Asoc. Rur. del Uruguay Rev. 77 (7):90. July 1950. 9.9 As5
- 7705 HOOPER, A. T. Careless treatment of milk can be dangerous. So. Austral. Dept. Agr. J. 53:573. July 1950. 23 So84
- 7706 HUISMAN, H. J. Bell-jar pasteurization. (In Dutch.) Melk- en Zuivelhandel 3:327. Oct.11,1950. 44.8 M48
- 7707 HUMPHRISS, E. Ice cream technology. 6. The heat treatment of ice cream mix. Ice Cream Indus. 26: 301-302. Sept.1950. 389.8 Ic23
- 7708 HUNTER, G. J. E. The characteristics of streptococcal phages; interaction between different races. J. Dairy Res. 16:374-376. Dec.1949. 44.8 J823
- 7709 HUNTER, G. J. E., and WHITEHEAD, H. R. Phage-carrying cultures as cheese starters. J. Dairy Res. 16:368-373. Dec.1949. 44.8 J823
- 7710 JARDINE, W. Buttermaking. Dairy Indus. 15: 920-925. Sept.1950. 44.8 D1427
- 7711 KEESTRA, F. Pasteurization temperatures and the quality of products. (In Dutch.) Alg. Nederland. Zuivelbond. Off. Orgaan 42:435. (Concl.) Sept.13,1950. 44.9 AL3
- 7712 KEILLING, J., BARRET, A., and BIDAN, P. La pasteurisation du lait par les radiations infra-rouges. Lait 30:465-474. Sept./Oct.1950. 44.8 L143
- 7713 KIEL. VERSUCHS- UND FORSCHUNGSANSTALT FÜR MILCHWIRTSCHAFT. Wissenschaftlicher jahresbericht 1948/49. Nürnberg,1949. 71 p. 44.9 K54
- 7714 KLENZADE PRODUCTS, BELOIT, WISCONSIN. Dairy sanitation handbook. Beloit, Wis.,1950. 273 p. 44 K674
- 7715 KRUK, H. Praktische käsererei: holländer käse. Molch.-Ztg. [Hildesheim] 4:1009-1010. (Cont.) Aug.31, 1950. 44.8 M735
- 7716 LEIGHTON, A. Commercial ice-cream formulas. U. S. Bur. Dairy Indus. BDIM-Inf-11, slightly rev., 23 p. Oct.1950. 1.973 D4B34
- 7717 LUK'IANOV, N. Vacuum condenser for condensing milk. (In Russian.) Moloch. Promysh. 11(5):9-14. May 1950. 44.8 M734
- 7718 MCCLEAN, C. M. Estimating the cost of ice cream production. South. Dairy Prod. J. 48(4):41,69-71. Oct.1950. 44.8 So83
- 7719 MANDT, P. H. A cheese factory designed for convenience, efficiency and sanitation. Butter, Cheese & Milk Prod. J. 41(10):22-25. Oct.1950. 286.85 B98Bu
- 7720 MARTIN, W. H. Two important factors. Ice Cream Field 56(4):97-98,100-101. Oct.1950. 389.8 Ic23
- 7721 MARTIN ALONSO, M. Las industrias lácteas; algunas consideraciones técnicas sobre la fabricación de queso. Ceres [Valladolid] 15(171):14-15. Sept.1,1950. 15 C33
- 7722 MATA LLANA VENTURA, S. Fuerza y cálculo del cuajo. Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg. 8-50H,8 p. May 1950. 15 H68
- 7723 MEANY, J. A. The Chicago test of detergent sanitizers for use on dairy farms. J. Milk & Food Technol. 13:279-282. Sept./Oct.1950. 44.8 J824
- 7724 MEISER, J. A., JR. How to store MSNF. Ice Cream Field 56(4):84,86. Oct.1950. 389.8 Ic23
- 7725 MENGEBIER. Kampf den käsereschädlingen. Molch.-Ztg. [Hildesheim] 4:981. Aug.24,1950. 44.8 M735
- 7726 MIGLIEVICH, M. Warming of milk in high pasteurization. (In Portuguese.) B. do Leite (ser.4)3(36):11-12. June 1950. 44.8 B633
- 7727 MILLIGAN, W. Chilled water and brine for liquid milk cooling. Soc. Dairy Tech. J. 4:30-32. Oct.1950. 44.8 So12
- 7728 MOHR, W., and CORTE, H. Versuche zur ent-salzung und entsäuerung von molke durch elektrodialyse. Kieler Milchwirt. Forscherber. 2:13-34. 1950. 44.9 K542
- 7729 MULDER. Nachhärtung und temperaturbehandlung von fertiger butter. Molch.-Ztg. [Hildesheim] 4:923-924. Aug.10,1950. 44.8 M735
- 7730 NELSON, J. M. Aspects of the manufacture of "Minas cheese" in the Serro region, State of Minas Gerais. (In Portuguese.) B. do Leite (ser.4)4(38):11-12. Aug.1950. 44.8 B633



- 7731 NIKOLAEV, A. Technological instruction—law in production. (In Russian.) *Moloch. Promysh.* 11(6): 5-8. June 1950. 44.8 M734  
Cheese manufacture.
- 7732 NORMAN, B. Milk cooling by direct-expansion and flooded system of ammonia. *Soc. Dairy Tech. J.* 4:33-37. Oct. 1950. 44.8 So12
- 7733 PIPER, P. E. Milkstone: it's double-trouble if not nipped fast. *Food Indus.* 22:1914-1915, 2003-2004. Nov. 1950. 389.8 F737
- 7734 PRIES, E. C. Massnahmen zur förderung der qualität der trinkmilch. *Kieler Milchwirt. Forscher.* 2: 63-72. 1950. 44.9 K542  
Care and handling.
- 7735 REED, O. E. Dairy research work expands. *Certified Milk* 25(10):6-7, 20(11):6-7, 14-15. Oct.-Nov. 1950. 44.8 C33
- 7736 LA REFRIGÉRATION du lait à la ferme. *Rev. Prat. du Froid* 5(12):21-22. (Cont.) Sept. 1950. 295.8 R323
- 7737 RIBEIRO, J. A. Mechanical cow's milk. (In Portuguese.) *B. do Leite* (ser.4)(38):3-5. Aug. 1950. 44.8 B633  
Reconstituted dried milk.
- 7738 RIBEIRO, J. A. Washing and sterilization in dairies. (In Portuguese.) *B. do Leite* (ser.4)(36):7-8, 14. June 1950. 44.8 B633
- 7739 RITTER, P. Die gegenseitige beeinflussung von euterbakterien und einigen käseertechnisch wichtigen bakterienstämmen; ein weiterer beitrag zur frage der disposition der milch. *Landwirt. Jahrb. der Schweiz.* 64: 579-620. 1950. 17 L23  
Summary in English.
- 7740 RODÓN, J. M. Queso "Petit Suisse." *Cult. Mod.* 33:252. July 1950. 15 C89
- 7741 ROSS, O. E. Sherbets and ices—a special investigation involving different formulae on citrus flavored quality products. *Ice Cream Trade J.* 46(7):44-45, 86-92. July 1950. 389.8 Ic2
- 7742 ROZANOV, A. Increasing the yield of lactose. (In Russian.) *Moloch. Promysh.* 11(6):15-18. June 1950. 44.8 M734
- 7743 RUDNICK, A. W. The continuous churn. *Iowa Dept. Agr. B.* 94-J:65-68. 1950. 2 Io9B  
Includes the entire complex of machinery in continuous butter manufacture.
- 7744 RUEHE, H. A. Summer sanitation. *Butter Ideas* 4(4), 8 p. July 1950. 44.8 B984
- 7745 SA, V. DE. La pasteurisation du lait dans la fabrication de fromages de lait de brebis et de chèvre. *Lait* 30:496-499. Sept./Oct. 1950. 44.8 L143
- 7746 SAMSONOV, N. Organization of quality testing of [butter] starters. (In Russian.) *Moloch. Promysh.* 11(5):38. May 1950. 44.8 M734
- 7747 SANDERS, G. P., BURKEY, L. A., and LOCHRY, H. R. General procedure for manufacturing Swiss cheese. *U. S. D. A. C.* 851, 18 p. Ref. Sept. 1950. 1 Ag84C
- 7748 SAUTER, E. Ein neues ultraviolett-milch-vitaminisiergerät. *Milchwissenschaft* 5:296-299. Sept. 1950. 44.8 M5933  
English summary.
- 7749 SCHEER, K. Die UV.-bestrahlung der milch. *Milchwissenschaft* 5:292-296. Sept. 1950. 44.8 M5933  
English summary.
- 7750 SCHNEIDER, G., WITTMANN, H., and VOGEL, E. Gewinnung und abgabe homogenisierter, pasteurisierter und vitaminisierter kindermilch im rahmen der städtischen milchversorgung. *Milchwissenschaft* 5:289-292. Sept. 1950. 44.8 M5933  
English summary.
- 7751 SCHULZ, M. E. Die herstellung von brotaufstrichen aus butterfett. *Fette u. Seifen* 52:541-545. Sept. 1950. 384 C422
- 7752 SKVORTSOV, M. Processing of sheep's milk. (In Russian.) *Moloch. Promysh.* 11(5):17-20. May 1950. 44.8 M734  
For cheese manufacture.
- 7753 SORBER, D. G. New developments in the use of frozen fruit purees in ice cream. *South. Dairy Prod. J.* 48(5):114-115, 118-119, 132. Ref. Nov. 1950. 44.8 So83
- 7754 SPECK, M. L. High-temperature short-time pasteurization of ice cream mix. *J. Milk & Food Technol.* 13:275-278. Sept./Oct. 1950. 44.8 J824
- 7755 TARANTOLA, C. A few considerations about the ripening of cheeses. (In Italian.) *Mondo del Latte* 1950:408-410, 413-414, 416-419. Ref. Aug. 1950. 44.8 M74  
English summary.
- 7756 THOMSEN, H. Yoghurt. *Molk.-Ztg. [Hildesheim]* 4:979. (To be cont.) Aug. 24, 1950. 44.8 M735
- 7757 TRACY, P. H., and EDMAN, G. Ice cream for diabetics using sorbitol. *Ice Cream Trade J.* 46(7):50, 52, 83-85. Ref. July 1950. 389.8 Ic2
- 7758 TRACY, P. H. The importance of good vanilla flavor in the ice cream industry. *Ice Cream Trade J.* 46(6):46, 48, 82-85. June 1950. 389.8 Ic2
- 7759 VAANDRAGER, G. Preparation of casein on the farm. *Farming So. Africa* 25:233-234. July 1950. 24 So842
- 7760 VLEESCHAUWER, A. DE. Short survey of the activities of the Government Dairy Station at Ghent during its ten years existence. (In Dutch.) *Nederlands Melken Zuiveltijdschr.* 4:138-147. Apr./June 1950. 44.8 N283  
Includes discussion.
- 7761 WEBB, B. H. Processes for preserving fluid and concentrated milks, and their potentialities. *U. S. Bur. Dairy Indus. BDI-Inf-111*, 2 p. Oct. 1950. 1.973 D4B34  
Abstract of paper presented before the Laboratory Section, 43d annual convention, Milk Industry Foundation, Oct. 1950.
- 7762 WEBB, C. R. Uniformity in cottage cheese. *Amer. Milk Rev.* 12(10):72, 77. Oct. 1950. 44.8 Am38  
Manufacture.
- 7763 WELLS, C. B., and ARBUCKLE, W. S. A plea for cooperative research. *Ice Cream Field* 56(4):102, 127-128. Oct. 1950. 389.8 Ic23
- 7764 WILSTER, G. H. Condensing procedures. *Ice Cream Field* 56(4):110, 129-130. Oct. 1950. 389.8 Ic23  
Milk.
- 7765 WINTERTHUR, H. C. E. La evaporación en etapas sucesivas aplicada a la concentración de la leche. *Indus. Lechera* 32:341-344. July 1950. 44.8 In26  
Manufacture of condensed milk.
- 7766 WITTWER, W. Concentration plants for the production of condensed milk. (In Italian.) *Indus. Ital. delle Conserve* 25:4-12. Jan./Feb. 1950. 389.8 In23
- 7767 ZEILER, H. Holländer käseerei mit käsefertiger. *Molk.-Ztg. [Hildesheim]* 4:928-929. Aug. 10, 1950. 44.8 M735

#### Statistics

- 7768 CARL, L. M. Farm production, disposition and income from milk. *Iowa Dept. Agr. B.* 94-J:31-33. 1950. 2 Io9B  
Statistics.
- 7769 DANSKE MEJERIFORENINGERS FAELLES-ORGANISATION. KONTOR FOR MEJERI-STATISTIK. [Danmarks mejeri-statistik 1950 [Denmark's creamery statistics 1950]. København, 1950. 152 p. 44.9 D41A
- 7770 SCHWEIZERISCHES BAUERNSEKRETARIAT. Milchstatistik der Schweiz, 1949. *Landwirt. Jahrb. der Schweiz.* 64:509-577. 1950. 17 L23
- 7771 U. S. BUR. OF AGRICULTURAL ECONOMICS. Statistics relative to American cheese production in New York State. Albany, 1950. 17 p. 1.941 H2C41  
New York State Department of Agriculture and Markets cooperating.
- 7772 U. S. PRODUCTION AND MARKETING ADMIN. Compilation of statistical material concerning the proposed marketing agreement and order for the Springfield, Missouri, marketing area. Washington, 1950. 64 p. 1.956 D14C738  
Includes prices of dairy products, dairy feed, and farm income.

#### FEED AND FORAGE CROPS

- 7773 ABSHIER, G. S. How to reduce production costs in your feed mill. *Feedstuffs* 22(41):72-73. Oct. 14, 1950. 286.81 F322
- 7774 BOHSTEDT, G. Quality hay and the feed industry. *Feedstuffs* 22(40):46-52. Oct. 7, 1950. 286.81 F322
- 7775 BOS, K. Contents of poultry feed should be listed on label. (In Dutch.) *Pels en Pluim* 5(4):3. Feb. 24, 1950. 47.8 P36



- 7776 BRIGHT, W. J. Confidence vital in seed sales. Feed Bag 26(10):78. Oct.1950. 389.78 F32
- 7777 CLOUGH, M. The outlook for feed. Washington, U. S. Bur. Agr. Econ., 1950. 2 p. 1.941 A2C622  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.
- 7778 COVERDALE, J. Effects of antibiotics on future of tankage. Meat 33(5):179-180. Oct.1950. 286.85 M464
- 7779 DAVIS, H. A., and KRAMER, R. E. Inspection of commercial feedstuffs. N. H. Agr. Expt. Sta. B. 381,29 p. July 1950. 100 N45
- 7780 FRIEDMAN, L. Report on vitamin D in poultry feed supplements. Assoc. Off. Agr. Chem. J. 33:645-647. Ref. Aug.15,1950. 381 As7
- 7781 FUCHS, P. Chemische glüteprüfung eingesäuerten pflanzenmaterials auf vervollkommener Grundlage. Z. f. Analyt. Chem. 131:38-45. 1950. 384 Z3  
Chiefly silage.
- 7782 HADLEY, N. S. Here's the outlook for feed supplies. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1950:1-2.5. Sept.20,1950. 275.29 In2Em
- 7783 ILLINOIS. DEPT. OF AGRICULTURE. DIV. OF FOODS AND DAIRIES. Registered commercial feeding stuffs 1949. Chicago, 1950? 335 p. 389.79 IL6
- 7784 INDIANA. AGRICULTURAL EXPERIMENT STATION. Inspection of commercial feeding stuffs. Ind. Agr. Expt. Sta. C. 360,64 p. Apr.1950. 100 In2P
- 7785 IRWIN, H. S., and MCDONALD, E. M. Inventory and hedging policies of commercial mixed-feed manufacturers in the United States. U. S. D. A. Agr. Inform. B. 24,45 p. Sept.1950. 1 Ag84Ab
- 7786 JOHNSON, M., and PAYNE, L. F. Streamlining feed handling. (Extr.) Grain & Feed J. Consolidated 105 (4):21. Aug.23,1950. 298.8 G762
- 7787 JUNGHER, E. Studies on sanitizing used feed bags. Amer. Vet. Med. Assoc. J. 117:324-328. Ref. Oct.1950. 41.8 Am3
- 7788 LOUISIANA. DEPT. OF AGRICULTURE AND IMMIGRATION. Analysis of commercial feeds, 1948-1949. Baton Rouge, 1949. 127 p. 389.9 L93
- 7789 MCCORD, H. When the feed man advertises. Grain & Feed J. Consolidated 105(8):28-29. Oct.25,1950. 298.8 G762
- 7790 MARCILLA ARRAZOLA, J., and RUIZ DE ASSIN, A. Los procesos de acondicionado (designificación) de las pajas de cereales. Seran reductuables en España? Spain. Inst. Nac. de Invest. Agron. B. 10(22):75-106. Ref. June 1950. 105.6 Sp14  
English summary.  
For feed.
- 7791 MITCHELL, H. L., and SILKER, R. E. Stability of carotene in alfalfa; effect of feed ingredients. Indus. & Engin. Chem. 42:2325-2327. Ref. Nov.1950. 381 J825
- 7792 MOORE, R. D. The one-stop feed and farm supply store pays off. West. Feed & Seed 5(9):29,40-42. Sept.1950. 389.78 W52
- 7793 MOSKEY, H. E. The official attitude toward mineral feed mixtures. Grain & Feed J. Consolidated 105(8):23-24. (Excerpts.) Oct.25,1950. 298.8 G762
- 7794 MUSGRAVE, R. B., and KENNEDY, W. K. Preservation and storage of forage crops. In Advances in agronomy, v.2,p.273-315. Ref. New York, Acad. Press, 1950. 30 Ad9
- 7795 NEW MEXICO. FEED AND FERTILIZER CONTROL OFF. Twenty-first annual report fiscal year ending June 30, 1950: commercial feeding stuffs, by R. W. Ludwick, and L. T. Elliott. State College, 1950. 105 p. 389.79 N46
- 7796 NEW YORK. DEPT. OF AGRICULTURE AND MARKETS. BUR. OF FOOD CONTROL. List of brands of concentrated commercial feeding stuffs for which wholesalers' licenses were issued between January 1 and June 30, 1950, for license year ending December 31, 1950. N. Y. Dept. Agr. & Mkt. B. 374,68 p. Oct.1950. 2 N482  
Analyses.
- 7797 NEW YORK. DEPT. OF AGRICULTURE AND MARKETS. BUR. OF FOOD CONTROL. Report of analyses of samples of feeding stuffs collected in New York State from January 1 to December 31, 1949, inclusive. N. Y. Dept. Agr. & Mkt. B. 373,97 p. Aug.1950. 2 N482
- 7798 RHONE, L. Make them look for your ads; provide the type of information that will interest farm readers. Feedstuffs 22(41):54-55. Oct.14,1950. 286.81 F322
- 7799 ROTH, E. C. Protection through hedging. East. Feed Merchant 1(10):18-20,50-51. Oct.1950. 389.78 Ea7  
Feeds.
- 7800 SCHAEFER, H. C. Report on vitamin A in animal foods. Assoc. Off. Agr. Chem. J. 33:615-630. Aug.15,1950. 381 As7  
Feed.
- 7801 SIEMER, Q. A. Serving your feed customers. Grain & Feed Rev. 40(2):20. Oct.1950. 280.28 C78
- 7802 SPOONER, H. L. Regular feed routes bring good business. Grain & Feed J. Consolidated 105(7):41-42. Oct.11,1950. 298.8 G762
- 7803 STALEY, T. W. Analyzing everyday feed problems. Grain & Feed J. Consolidated 105(7):37-38. (Excerpts.) Oct.11,1950. 298.8 G762
- 7804 THOMAS, B., and ARMSTRONG, D. G. Crude fibre in feedingstuff analysis. Gt. Brit. Min. Agr. Agriculture 57:210-211. Ref. Aug.1950. 10 G79J
- 7805 TURK, K. L. Ample supplies of concentrate feeds. Dairymen's League News 34(23):6-7. Nov.14, 1950. 44.8 D1432
- 7806 U. S. PRODUCTION AND MARKETING ADMIN. SUGAR BR. The marketing of feed molasses, by L. J. Kutish. Washington, 1950. 32 p. 1.956 Sum342
- 7807 VERVENNE, B. VAN A. Feed for the poultry! (In Dutch.) Pluimveeteelt 3(17):4. Aug.4,1950. 47.8 P722
- 7808 WERNER, G. M., and BURCALOW, F. V. Forage clinics rate high in Wisconsin. Crops & Soils 3:20-22. Oct.1950. 6 W55  
Grading forage samples.
- 7809 WILSON, E. Damp grain supplies will be plentiful. Poultry [London] 107:211. Sept.12,1950. 47.8 P869
- 7810 WISCONSIN. DEPT. OF AGRICULTURE. Commercial feeds in Wisconsin—1950. Wis. Dept. Agr. B. 302,97 p. July/Aug.1950. 2 W752Bu  
Inspection.

## FIBERS AND TEXTILES

- 7811 AHMAD, N. Pakistan cotton—past, present and future. Pakistan 1(4):74-80. Aug.1950. 278.8 P17
- 7812 AHMAD, S. M. Prospect of cotton textile industry in East Pakistan. Karachi Com. 3(26):3-4. June 3, 1950. 280.8 K14
- 7813 ALEXANDER, P., CARTER, D., and EARLAND, C. The reaction of wool with organic chloroamines. I. Conditions for rendering wool nonfelting. Soc. Dyers & Colourists. J. 66:538-543. Oct.1950. 306.9 Sol
- 7814 AMBIÈRE, F. La gloire du lin. Fleur Bleue 12:29-32. Sept.1950. 304.8 F63
- 7815 AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS. Annual meeting, Portsmouth. Textile Indus. 114(11):98-103. Nov.1950. 304.8 C823
- 7816 ANCEY, J. Fundamentos científicos de la fluorescencia y aplicaciones de los rayos ultravioleta en las industrias química y textil. Ion 10:339-352. June 1950. 385 Io6
- 7817 ANDERSON, A. Blending synthetic fibers. Textile Indus. 114(10):108-110. Oct.1950. 304.8 C823
- 7818 ANDREWS, W. B., ed. Cotton production, marketing and utilization. State College, Miss., 1950. 476 p. Ref. 280.372 An22
- 7819 ARGENTINA. MINISTERIO DE AGRICULTURA Y GANADERÍA. DIRECCIÓN DE LANAS. Lavado de lanas. Argentina. Dir. de Inform. P. Misc. 316,9 p. 1949. 9 P943
- 7820 ARMOUR, A. R. Clasificación de lanas en los establecimientos productores. Res 18:25086. Aug.20, 1950. 286.85 R31
- 7821 ARTHUR, J. C., JR., and MANY, H. G. Peanut protein fibers—pilot scale plant. Amer. Dyestuff Rptr. 39:719-722. Ref. Oct.30,1950. 306.8 Am3
- 7822 ASHTON, H. Processing and blending staple fibers on the worsted system. (Abs.) Textile Indus. 114 (11):94-96. Nov.1950. 304.8 C823
- 7823 AUDLEY, R. S. Roller pressure in drawing and spinning. Fibres 11:358. Oct.1950. 304.8 F16  
Wool.
- 7824 BANDYOPADHYAY, S. B. Effect of moisture on the frictional properties of jute fibre. Nature [London] 166:697-698. Oct.21,1950. 472 N21



- 7825 BARKER, H. D. Fiber properties and their significance. In *Advances in agronomy*, v.2, p.56-63, 79-80. Ref. New York, Acad. Press, 1950. 30 Ad9
- 7826 BASTOW, Y. Rhodesian cotton industry. *Rhodesian Farmer* 4(5):21. Aug.2, 1950. 24 R347
- 7827 BELPAIRE, A. L'industrie jutière belge. *Monit. Textile* 12:1163-1164. Sept. 1950. 304.8 M74
- 7828 BENNETT, C. A. Cotton ginning. In *Andrews, W. B., ed. Cotton production, marketing and utilization*, p. 241-268. State College, Miss., 1950. 280.372 An22
- 7829 BENNETT, C. A. Improvements in ginning practices. In *Advances in agronomy*, v.2, p.50-55. New York, Acad. Press, 1950. 30 Ad9
- 7830 BIGGIN, R. E. Mechanical testing of wool tops. *Canad. Textile J.* 67(21):56-59. Oct.13, 1950. 304.8 C16
- 7831 BIRT AND CO. "Wool" 1949-1950. Sydney, 1950. 64 p. 286.3459 W88
- 7832 BLACKBURN, S. Changes produced in wool by processing. *Chem. & Indus.* 1950:718-723. Ref. Nov.4, 1950. 382 M31C
- 7833 BLACKBURN, S. The liberation of free amino-acids during the acid hydrolysis of wool. *Biochem. J.* 47:xxviii-xxix. Sept. 1950. 382 B52
- 7834 BOGDAN, J. F., FENG, I. Y. T., and DAVIS, R. C. The spinning, weaving, finishing and marketing of cotton products. In *Andrews, W. B., ed. Cotton production, marketing and utilization*, p. 361-380. State College, Miss., 1950. 280.372 An22
- 7835 BOMBAY cotton annual, 1948-49, No. 30. Bombay, 1949. 263 p. 72.8 B63
- A directory.
- 7836 BOSE, O. K. Conversion of spinning process from short-staple to long-staple cotton. *Indian Textile J.* 60:811-821. Ref. July 1950. 304.8 In2
- 7837 BRASS, K. Neues von fasern, chemischer textilveredlung und farbstoffen. III. *Kolloid Z.* 116:33-46. Ref. Jan. 1950. 384 Z315
- 7838 BRINTZINGER, H., and WOLFF, H. Untersuchungen über die erhöhung der wasser- und kochbeständigkeit von kasein- und anderen eiweissfasern. *Kolloid Z.* 118:28-32. July 1950. 384 Z315
- 7839 BRITISH COTTON INDUSTRY RESEARCH ASSOCIATION. SHIRLEY INSTITUTE. Year book, 1949. Didsbury, Manchester, Eng., 1949. 111 p. 72.9 B773Y
- 7840 BRIXHE, A. Le coton congolais. *Textielwezen* 6(9):19,21,23-27. Sept. 1950. 304.8 T3147
- 7841 BROWN, S. Oklahoma's bale-an-acre club. *Acco Press* 28(9):10-11. Sept. 1950. 6 Ac2
- 7842 BRUNNINGHAUSEN, H. La hausse des prix et la propagande lainière. *Monit. Textile* 12:1367,1369. Oct. 1950. 304.8 M74
- 7843 BRYANT, F. A foam method for degumming raw silk. *Textile Res. J.* 20:735-736. Ref. Oct. 1950. 304.8 T293
- 7844 BURLET, E. Contribution à l'étude des taux de reprise. *Inst. Textile de France. B.* 20:39-46. Aug. 1950. 304.8 T3145
- English summary.
- 7845 CAMPBELL, K. The future marketing of wool. *Agr. Gaz. N. S. Wales* 61:350-354. July 1, 1950. 23 N472
- 7846 CARRAWAY, R. S. Burlap in the U. S. A. *Jute & Gunny Rev. Annu.* 1:91. 1950. 73.38 J983A
- 7847 CARTER, E. G. La recherche scientifique lainière au service des consommateurs. *Monit. Textile* 12:1387,1389,1391. Oct. 1950. 304.8 M74
- 7848 CASEY, J. Cotton once known as vegetable-lamb; history goes back to 1500 B. C., but only in recent times has staple come into own. *Sowest. Crop & Stock* 4(9):9,66-67. Sept. 1950. 6 So8942
- 7849 CAVIN, J. P. The outlook for cotton in 1950-51. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2C31
- Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.
- 7850 CHANDA, S. K., and others. The constitution of xylan from esparto grass (*Stipa tenacissima*, L.). *Chem. Soc. J.* 1950:1289-1297. May 1950. 382 L84J
- E. L. Hirst, J. K. N. Jones, and E. G. V. Percival, joint authors.
- 7851 CHARLIER, A. Les prix des textiles à l'exportation. *Monit. Textile* 12:1397,1399,1403,1405. Oct. 1950. 304.8 M74
- 7852 CHOWDHURY, J. K. Science in jute industry. *Jute & Gunny Rev. Annu.* 1:75-77. 1950. 73.38 J983A
- 7853 COBB, L. L. Procedimientos prácticos en la hilatura de fibras sintéticas. *Textiles Panamer.* 10(10):31,74-78;(11):33-34,64. (Cont.) Oct.-Nov. 1950. 304.8 T3142
- 7854 CORTELEZZI, C. Q. Las marcas de alquitrán desvalorizan las lanas. *Argentina. Min. de Agr. Almanaque* 25:109-110. 1950. 9 Ag874
- 7855 COX, A. B. Cotton classing and standardization. In *Andrews, W. B., ed. Cotton production, marketing and utilization*, p. 318-336. State College, Miss., 1950. 280.372 An22
- 7856 COX, A. B. Cotton markets and marketing. In *Andrews, W. B., ed. Cotton production, marketing and utilization*, p. 337-360. State College, Miss., 1950. 280.372 An22
- 7857 DALL, W. B. Steep rise in prices of U. S. textiles. *Indian Textile J.* 60:850-853. Aug. 1950. 304.8 In2
- 7858 DALLA VALLE, J. M., ORR, C., JR., and CORNWALL, R. R. Limitations of the arealometer method for the measurement of fiber diameters. *Textile Res. J.* 20:676-682. Ref. Oct. 1950. 304.8 T293
- 7859 DALY, J. A. Substantial supplies of new crop cotton arriving in mill areas. *Cotton Digest* 23(4):10. Oct. 14, 1950. 286.82 C822
- 7860 DAMME, R. C. L. VAN. Future of jute bags. *Jute & Gunny Rev. Annu.* 1:42. 1950. 73.38 J983A
- 7861 DAS, D. B. Development in jute research. *Jute & Gunny Rev. Annu.* 1:131,133-135,137. 1950. 73.38 J983A
- 7862 DEQUAE, A. Textiles in the Belgian Congo. (In Flemish.) *Textielwezen* 6(9):17. Sept. 1950. 304.8 T3147
- Text in French, p. 18.
- 7863 DESCHACHT, J. La fibre de rayonne en filature coton. 4-5. *Rayonne* 5(11):40-45;(12):41,43-48. Nov.15-Dec.15, 1949. 304.8 R214
- 7864 DEWEY, E. R. Cycles in wholesale prices: cotton (a) War & post war behavior (b) The 6-year rhythm, 1731-32 to 1947-48. *Riverside, Conn., Found. Study Cycles*, 1949. 19 p. (Found. Rpt. 2) 284.372 D51
- 7865 DIEZ CANSECO, O. Ante-proyecto de reglamentación general del cultivo del algodón en la Provincia de Manabí, Ecuador. *Consorcio de Cent. Agr. B.* 12(62):5-12. Apr./June 1950. 9.5 M31
- 7866 DOCKRAY, G. H., MEADOWS, B., and SMITH, L. Cotton waste. *Textile Res. J.* 20:684-718. Ref. Oct. 1950. 304.8 T293
- 7867 DUBININ, A. Development of silk industry in Ukraine. (In Russian.) *Tekstil'. Promysh.* 10(7):11-12. July 1950. 304.8 T23
- 7868 DYSON, C. H. The outlook in textiles. *Boston Conf. Distrib.* 22:87-88. 1950. 286.29 B65
- 7869 ELLIOTT, R. L. High polymers for textile fibres. *Textile Rec.* 68(811):85-87. Oct. 1950. 304.8 T311
- 7870 EVANS, R. B. Uses of cotton and its substitutes. In *Andrews, W. B., ed. Cotton production, marketing and utilization*, p. 381-408. State College, Miss., 1950. 280.372 An22
- 7871 FAHRBACH, R. Neuzeitliches wickelstreckverfahren in der baumwollspinnerei. *Textil-Praxis* 5:561-566. Sept. 1950. 304.8 T3143
- 7872 FALCONE, M. A. Revolution in synthetic fibers. *Forecast Home Econ.* 66(8):24-25,60. Oct. 1950. 321.8 F76
- 7873 FARAGO, P. Synthetics v. natural fibres. *Austral. Q.* 22(3):24-34. Sept. 1950. 280.8 Au7
- 7874 FEARNLEY, C., and SPEAKMAN, J. B. Cross-linkage formation in keratin. *Nature [London]* 166:743-744. Oct. 28, 1950. 472 N21
- 7875 FEHRLIN, A. Die schweizerische seidenindustrie. *Textil-Rundschau* 5:412. Oct. 1950. 304.8 T3139
- 7876 FEHRLIN, A. Die schweizerische textilindustrie im jahre 1949. *Textil-Rundschau* 5:373-376. Sept. 1950. 304.8 T3139
- 7877 FLETCHER, H. M., HANSEN, A. M., and DUENSING, M. E. Physical properties of plated fabrics knit of cotton, wool, viscose rayon, and nylon. *U. S. D. A. C.* 848,29 p. Aug. 1950. 1 Ag84C
- 7878 FOREMAN, B. Fire plays havoc with cotton. *Prog. Farmer, Miss.-Ark.-La. Ed.* 65(10):15,130. Oct. 1950. 6 So81
- During ginning.



- 7879 FRIEDRICH, A. Vorbereitung und verarbeitung von im kardenband gebleichter baumwolle. *Textil-Praxis* 5:569-570. Sept.1950. 304.8 T3143
- 7880 FRÖHLICH, H. G. Die herstellung von künstlichen proteinfasern; überblick über die entwicklung der nachkriegsjahre. *Melland Textilber.* 31:663-666. Ref. Oct.1950. 304.8 T312  
English summary.  
A literature survey.
- 7881 GAGLIARDI, D. D., LEMPKA, A., and NEUSSELE, A. C. The relation between fiber properties and the apparent abrasion resistance of resin-modified fabrics. (Abs.) *Textile Indus.* 114(11):101. Nov.1950. 304.8 C823
- 7882 GAMBEL, W. Die abziehkollonne an den ring-spinnmaschinen und ihre entlohnung nach leistung. *Textil-Praxis* 5:571-573. Sept.1950. 304.8 T3143
- 7883 GERDES, F. L. Cotton fiber technology. In *Andrews, W. B., ed. Cotton production, marketing and utilization*, p. 286-317. Ref. State College, Miss., 1950. 280.372 An22
- 7884 GILBERT, F. C. More r-e-a-l facts. *Amer. Small Stock Farmer* 34(12):8-9. Sept.1950. 48.8 J82  
Angora rabbit wool prices.
- 7885 GOLDSMITH, M. T. Enzymatic digestion of protein fibers. *Textile Res. J.* 20:613-616. Ref. Sept. 1950. 304.8 T293
- 7886 GRALEN, N. The cuticle of wool. *Soc. Dyers & Colourists J.* 66:465-470. Ref. Sept.1950. 306.9 S01  
Includes discussion.
- 7887 GREEN, O. "Cotton capital"; Lubbock's 1949 record breaking crop of 160,000 bales wins city title of "Cotton Capital of Texas," and first reports are favorable for '50 repeat. *West Tex. Today* 31(7):9,26. Sept.1950. 286.8 W522
- 7888 GRIMES, M. A. The effect of cleaning on the grade, staple and price of cotton. *Tex. Agr. Expt. Sta. B.* 723,38 p. June 1950. 100 T318
- 7889 GROVE, C. S., JR., VODONIK, J. L., and CASEY, R. S. Fibers. *Indus. & Engin. Chem.* 42:1983-1986. Ref. Oct.1950. 381 J825
- 7890 THE GROWTH of the wool fibre. *Wool Sci. Rev.* 1950(6):13-20. Sept.1950. 304.8 W887
- 7891 GRUGET, E. A. El "henequen." Argentina. *Min. de Agr. Almanaque* 25:129-136. 1950. 9 Ag874  
The industry.
- 7892 HAGEN, J. F. Literature survey of textile bleaching. I. *Amer. Dyestuff Rptr.* 39:P703-P714. Oct.16,1950. 306.8 Am3
- 7893 HAMILTON, A. M. Wool production, grading & marketing. *Canad. Textile J.* 67(21):66,68-69. (Concl.) Oct.13,1950. 304.8 C16
- 7894 HANIF, A. A critical analysis of weekly cotton press return. *Co-op. & Mktg. Rev.* 4:226-231. July 1950. 280.28 C78243  
Pakistan.
- 7895 HARTLEY, L. F. How the I. W. S. [International Wool Secretariat] encourages research. *Woolboer* 36:9-11. July 1950. 45.8 W83
- 7896 HEATHCOTE, H. T. Tracing the causes of sub-standard quality in blended fiber yarns and fabrics. *Whitin Rev.* 17(4):39-43. July/Aug.1950. 304.8 W58
- 7897 HELLIWELL, E. H. Better fiber blending with Garnett cross feed. *Textile World* 100(10):141. Oct. 1950. 304.8 T315
- 7898 HESS, K. Elektronenmikroskopie und wandstruktur bei natürlichen zellulosefasern. *Kunstseide u. Zellwolle* 28:339-347. Ref. Sept.1950. 304.8 J45
- 7899 HEYN, A. N. J. How to identify synthetic fibers by their X-ray diagram. *Rayon & Synth. Textiles* 31(10):42-46. Oct.1950. 304.8 R21
- 7900 HIMMELFARB, D. Cordage testing methods. *Fibres, Fabrics & Cordage* 17:295-299. Sept.1950. 304.8 Ir42
- 7901 HOGAN, J. T. Nomograph—calculation of the degree of elongation of fiber during its preparation. *Amer. Dyestuff Rptr.* 39:725. Oct.30,1950. 306.8 Am3
- 7902 HOPKINS, G. E. Wool research in the United States. *Canad. Textile J.* 67(23):52-54,56. Nov.10,1950. 304.8 C16
- 7903 HORNE, M. K., JR. Competitive position of cotton among fibers. In *Advances in agronomy*, v.2, p.5-10. New York, Acad. Press, 1950. 30 Ad9
- 7904 HÜCKEL, P. Entstehung des haarfilzes und einfluss der walke auf die filzbildung. *Melland Textilber.* 31:689-693. Oct.1950. 304.8 T312  
English summary.  
Rabbit hair.
- 7905 HUDSON, J. The coir bristle and mattress fibre industry in Ceylon. *Fibres* 11:369-378. Oct.1950. 304.8 F16
- 7906 HUNLICH, R. Streifzüge aus der spinnerei von zellwolle und baumwolle. *Kunstseide u. Zellwolle* 28: 252-255. July 1950. 304.8 J45
- 7907 INTERNATIONAL COTTON ADVISORY COMMITTEE. Proceedings ninth plenary meeting, Washington, May 22 to 31, 1950. Washington, 1950. 252 p. 286.3729 In8  
Library has also French edition, 291 p. (286.3729 In8Af).
- 7908 INTERNATIONAL WOOL SECRETARIAT. La chimie de la kératine de la laine. *Monit. Textile* 12:1273, 1275, 1277, 1279, 1281, 1283, 1285, 1287-1288. Sept.1950. 304.8 M74
- 7909 JELMONI, E. The silk crisis from a century ago to today. (In Italian.) *Econ. della Marca Trevigiana* 37(36):2. Sept.16,1950. 280.8 Ec733
- 7910 JOHANNSEN, O. Die fadenbrüche an der ringspinnmaschine und ihre analyse. I-II. *Textil-Praxis* 5:557-560, 621-625. Sept.-Oct.1950. 304.8 T3143
- 7911 JOHNSON, F. P. How can we get more for our cotton? *Prog. Farmer, Carolinas-Va.* Ed. 65(10):124. Oct.1950. 6 P945  
Better quality cotton.
- 7912 JUTE and gunny review, first annual number. *Calcutta*, 1950. 180 p. 73.38 J983A
- 7913 KIME, J. A. Introducing new cotton products. *New Orleans, U. S. South. Region. Res. Lab.*, 1950. 7 p. 1.9321 S2K57  
Address before Cotton Research Congress, Dallas, July 27-28, 1950.
- 7914 KIRBY, R. H. Brush-making fibres. *Econ. Bot.* 4:243-252. July/Sept.1950. 450 Ec7
- 7915 KOSTIN, B. V. Processing of 4th and 5th grade cotton. (In Russian.) *Tekstil'. Promysh.* 10(5):21-22. May 1950. 304.8 T23
- 7916 LAGERMALM, G., and PHILIP, B. The action of alkali on the epicuticle of wool. *Textile Res. J.* 20: 668-670. Oct.1950. 304.8 T293
- 7917 LAIKOV, V., and BRAVYI, Z. Requirements for quality of cotton fiber. (In Russian.) *Tekstil'. Promysh.* 10(7):12-14. July 1950. 304.8 T23
- 7918 LANNOY, A. L'industrie belge du tissage de coton. *Monit. Textile* 12:1143, 1145, 1147, 1149-1150. Sept.1950. 304.8 M74
- 7919 LAUER, K., BEZNER, O., and DOBBERSTEIN, O. Zur kenntnis der zellulosefasern. 10-11. *Kolloid Z.* 116:28-33. Ref. Jan.1950. 384 Z315
- 7920 LINKE-CRAWFORD, E. Richtige werbung. *Osterr. Kleintierzüchter* 1950:809-810. Aug.1950. 49 Os7  
Angora wool.
- 7921 LOW, A. S. A historical note on jute. *Jute & Gunny Rev. Annu.* 1:65,67. 1950. 73.38 J983A
- 7922 LUNA ERCILLA, C. A. Las cabuyas; importancia económica de estas textiles y otras fibras duras de América. Argentina. *Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr.* 2(10):2-12. Ref. Apr.1950. 9 Ar35
- 7923 LUNA ERCILLA, C. Importancia económica de algunas fibras indígenas. *Pampa Argentina* 23(273):8. Aug.1950. 9 P19
- 7924 LUND, R. G. La quinzaine de la laine. *Monit. Textile* 12:1363-1364. Oct.1950. 304.8 M74
- 7925 MAAS, J. Accelerated aging of fabric—effects of elimination of sunshine on weather-exposed fabric and subsequent deterioration in storage. *Amer. Dyestuff Rptr.* 39:P693-P698, P714. Ref. Oct.16,1950. 306.8 Am3
- 7926 MCMAHON, P. R. Fundamentals of wool classing. *Country Life [Sydney]* 52(5):4,10. Aug.4,1950. 286.85 Sy2
- 7927 MACMILLAN, W. G. Research in jute industry (commercial aspects). *Jute & Gunny Rev. Annu.* 1:29-31, 33-35, 37. 1950. 73.38 J983A
- 7928 MARTIN, P. T. A discussion of wool and worsted oils. *Fibre & Fabric* 103(3362):6,8. Oct.7,1950. 304.8 F44  
Lubricants for wool.



- 7929 MERCER, E. H. Zur existenz einer sogenannten subcutis oder zwischenmembran in wolle und haar. *Melland Textilber.* 31:694-695. Oct.1950. 304.8 T312 English summary.
- 7930 MIKHAILOVA, L., and SOKOLOV, G. In regard to the relation of [cotton] yarn shrinkage to twisting. (In Russian.) *Tekstil'. Promysh.* 10(7):21-23. July 1950. 304.8 T23
- 7931 THE MILDEWING of wool, causes and prevention. *Wool Sci. Rev.* 1950(6):31-42. Sept.1950. 304.8 W887
- 7932 MONCRIEFF, R. W. General methods of making wool shrink-resistant. *Textile Mfr.* 76:502-505. Oct.1950. 304.8 T3126
- 7933 MOORE, A. T., and others. The swelling of cotton in water: a microscopical study. *Textile Res. J.* 20:620-630. Ref. Sept.1950. 304.8 T293
- L. W. Scott, I. V. deGruy, and M. L. Rollins, joint authors
- 7934 MORENO DE ARTEAGA, A. Problemas ganaderos en extremadura. Badajoz. Diputación Prov. B. de Inform. Agr. y Ganad. 8(78):11,13. Mar./July 1950. 15 B14
- Wool marketing.
- 7935 MOULE, G. R. Wool and its manufacture. *Queensland Agr. J.* 71:41-49. July 1950. 23 Q33
- 7936 MOXHON, H. L'industrie textile au Congo Belge, grandeurs et servitudes. *Textilwezen* 6(9):29-30, 32-33,35-37,39. Sept.1950. 304.8 T3147
- 7937 MURRAY, D. S. World cotton production and trade. In Andrews, W. B., ed. *Cotton production, marketing and utilization*, p. 409-430. Ref. State College, Miss., 1950. 280.372 An22
- 7938 MUTO, I. Japan's textile industry. *Oriental Econ.* 17:900-901. Aug.26,1950. 280.8 Or4
- 7939 NAIDICH, R. Why wool prices are high. *Natl. Indus. Conf. Bd. Business Rec.* 7:392-393. Oct.1950. 280.9 N216Cb
- 7940 NATIONAL ASSOCIATION OF WOOL MANUFACTURERS. Activities of the National Association of Wool Manufacturers for 1949; statistics of the industry and other matters relating to the wool textile industry. *Natl. Assoc. Wool Mfrs. B.* (1949)79,504 p. June 1950. 45.9 N21B
- 7941 NEDERLANDS VLASINSTITUUT. Systematische catalogus van de literatuur aanwezig op het Nederlands Vlasinstituut samengesteld door: C. J. Aeneae Venema [Systematic catalogue of the literature in the Netherlands Flax Institute compiled by C. J. Aeneae Venema]. *Nederlands Vlasinst. Meded.* 13,55 p. Aug.1, 1950. 73.19 W12M
- 7942 NEW ZEALAND WOOL BOARD. Sixth annual report and statement of accounts for year ending 30th June, 1950. Wellington,1950. 28 p. 45.9 N486
- 7943 NODDER, C. R. A review of the position reached in technological research on jute. *Textile J. Austral.* 25:692,694. Sept.20,1950. 304.8 T3134
- 7944 NORRIS, P. K. Cotton production and trade in Mozambique. U. S. Off. Foreign Agr. Relat. *Foreign Agr. Rpt.* 54,7 p. Oct.1950. 1.943 F763
- 7945 100 FACTS on wool. London, Naldrett, 1950? 32 p. (Smatterbook, 29) 45 On2
- 7946 ORLON: case history of a new fiber. *Fortune* 42(4):107-113,136. Oct.1950. 110 F772
- 7947 PATEL, J. S. K. Our cotton textile industry; what is wrong with it? *Indian Textile J.* 60:800-801. July 1950. 304.8 In2
- 7948 PATTERSON, A. N. Specialty hair fibers—how to identify them. *Rayon & Synthetic Textiles* 31(11): 41-43. Nov.1950. 304.8 R21
- 7949 PAUL, H. Tips on processing cotton waste. *Textile Indus.* 114(10):125-127. Oct.1950. 304.8 C823
- 7950 PAYNE, C. J. Wool and its classing. *Queensland Agr. J.* 71:98-110. Aug.1950. 23 Q33
- 7951 PECHARTSCHECK, K. Die bayerische textil-industrie im mai 1950. *Bayern in Zahlen* 4:385-387. Aug. 1950. 265 B34
- 7952 PORSCHE, G. Ueber den wert verkürzter spinnverfahren. *Textil-Praxis* 5:568-569. Sept.1950. 304.8 T3143
- 7953 PRINGLE, A. V. The theory and practice of flax spinning. *Fibres, Fabrics & Cordage* 17:290-294. (Cont.) Sept.1950. 304.8 Ir42
- 7954 QUIG, J. B. What's ahead for the chemical fibers? *Rayon & Synth. Textiles* 31(10):67-68. Oct.1950. 304.8 R21
- 7955 RANDELL, C. G., and HODDE, W. United Wool grows into new warehouse. *News Farmer Coop.* 17 (7):5,22. Oct.1950. 166.2 N47
- United Wool Growers Association, Harrisonburg, Va.
- 7956 RANDOLPH, W. L. Cotton's '51 production goal. *Cotton Gin & Oil Mill Press* 51(21):27,30. Oct.14, 1950. 304.8 C822
- Situation and outlook.
- 7957 REEVES, R. E., MAZZENO, L. W., JR., and HOFFPAUIR, C. L. The heterogeneous methanolysis of native and mercerized cotton cellulose. *Amer. Chem. Soc. J.* 72:4773-4777. Ref. Oct.1950. 381 Am33J
- 7958 REICHENBACH, G. Erfahrungen mit dem gleichmässigkeitsprüfer "Uster" in der baumwoll-spinnerei. *Textil-Praxis* 5:625-630. Oct.1950. 304.8 T3143
- 7959 REITER, F. M. Fungicidal treatment of Manila rope. *Power Engin.* 54(10):62-65. Oct.1950. 290.8 P88
- 7960 REMUSSI, C. El enriado del lino. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(9):2-10. Mar.1950. 9 Ar35
- Also in *Bolsa de Com.*, Rosario. *Rev.* 38(927):13-14,16-17,19-20. Aug.31,1950. 287 R71
- 7961 RINOLDI, L. Wool scouring. (In Italian.) *Laniera* 64:597,599,601,603. Aug.1950. 45.8 B63
- 7962 RIPA, O., and SPEAKMAN, J. B. Plasticity of wool. *Nature [London]* 166:570-571. Sept.30,1950. 472 N21
- 7963 RODRIGUES, L. L. Brazilian jute in the canvas industry. (In Portuguese.) *Orientação Econ. e Financ.* 8(86):38. July 1950. 280.8 Or42
- 7964 ROLFFS, H. La tradition du lin en Picardie. *Fleur Bleue* 12:65-70. Sept.1950. 304.8 F63
- 7965 ROSE, P. D. Harvesting season for the wool farmer. (In Afrikaans.) *Landbouweekblad* 32(1625):28-29. Sept.6,1950. 24 L232
- 7966 ROSS, J. E., JR. Cost economies through proper use of gin machinery. *Cotton Gin & Oil Mill Press* 51(20):34-35. Sept.30,1950. 304.8 C822
- 7967 SAHA, N. C. Inside a jute mill. *Jute & Gunny Rev. Annu.* 1:139,141-143. 1950. 73.38 J983A
- 7968 SAMPAIO, R. S. Complete utilization of agave plants by processing of their textile fibers and by-products. (In Portuguese.) *Soc. Rur. Brasil. Rev.* 30(356): 32-34. July 1950. 9.2 B733
- 7969 SEICHE, H. Die veredelung der acetatkunst-seide. *Kunstseide u. Zellwolle* 28:306-309. Aug.1950. 304.8 J45
- 7970 SEN, D. L. Technological reports on standard Indian cottons, 1949. *Indian Cent. Cotton Comt. Technol. Lab. Technol. B. Ser. A* 72,75 p. Nov.1949. 72.9 In2332A
- 7971 SEN, D. L. Technological reports on trade varieties of Indian cottons, 1949. *Indian Cent. Cotton Comt. Technol. Lab. Technol. B. Ser. A* 73,91 p. Jan. 1950. 72.9 In2332A
- 7972 SEN GUPTA, S. R., NIGAM, S. S., and TANDAN R. N. A new wool-destroying fungus—*Ctenomyces* species. *Textile Res. J.* 20:671-675. Ref. Oct.1950. 304.8 T293
- 7973 SESSA, L. The work of the Technical Committee of the International Wool Federation in 1950. (In Italian.) *Laniera* 64:573,575,577,579. Aug.1950. 45.8 B63
- 7974 SHARMA, M. L. Gunny trade—1949. *Jute & Gunny Rev. Annu.* 1:69-71. 1950. 73.38 J983A
- 7975 SHAW, H. Wool carding—principles—settings—production. *Canad. Textile J.* 67(23):64,66. Nov.10,1950. 304.8 C16
- 7976 SLAGLE, A. B. Control laws and Plains cotton. *Sowest. Crop & Stock* 4(9):10,71. Sept.1950. 6 So8942
- 7977 SOMERS, J. A. Synthetic fibres. *Brit. Rayon & Silk J.* 27(317):46-47. (Cont.) Oct.1950. 304.8 S13
- 7978 SOOKNE, A. M., BOGATY, H., and HARRIS, M. Some felting properties of wools of different geographical origins. *Textile Res. J.* 20:637-642. Ref. Sept.1950. 304.8 T293
- 7979 STASHEVA, M. P. The leveling capacity of [cotton] carding machine with an all-metal toothed belt. (In Russian.) *Tekstil'. Promysh.* 10(5):22-24. May 1950. 304.8 T23
- 7980 STOLTENBERG, K. J. The English cotton industry in 1950. (In Norwegian.) *Norsk Tekstil Tid.* 31:275-276,278. Sept.1950. 304.8 N81



7981 STOVES, J. L. The role of fibres in archaeology. *Fibres* 11:326-330. Sept.1950. 304.8 F16

7982 SZYMANEK, J. La valeur statistique des moyennes équivalentes des séries à nombres différents de données. *Inst. Textile de France* B. 20:9-12. Aug. 1950. 304.8 T3145

English summary.

Length of break in vegetable fibers.

7983 TAKAGI, T. Direct spinning in Japan; Toho's new K. T. spinning frame. *Rayon & Synthetic Textiles* 31(11):31-32,44. Nov.1950. 304.8 R21

7984 THOMAS, R. J., and MEUNIER, P. L. El teñido de la fibra acrílica orlon y su uso en géneros de color. *Textiles Panamer.* 10(10):39-40,60,62,64,66. Oct.1950. 304.8 T3142

7985 THORIA, L. Change in viscosity and degree of ripeness of viscose caused by addition of reagents. *Indian Cent. Cotton Com. Technol. Lab. Technol. B, Ser.* B 39,9 p. May 1949. 72.9 In2332B

7986 THURSTON, A. H. Burlap. *Jute & Gunny Rev.* Annu. 1:39-41. 1950. 73.38 J983A

7987 TODD, H. P. Shifts in cotton production among and within States, and some related factors 1800-1949. In Andrews, W. B., ed. *Cotton production, marketing and utilization*, p. 1-18. State College, Miss., 1950. 280.372 An22

7988 TODD, J. H. Warehousing for market. In Andrews, W. B., ed. *Cotton production, marketing and utilization*, p. 269-285. State College, Miss., 1950. 280.372 An22

7989 TOWNEND, P. P. Fibre breakage in worsted drawing. *Textile Rec.* 68(811):78-80. Oct.1950. 304.8 T311

7990 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Cotton program. Hearings, 81st Cong., 2d sess., Feb. 7, 8, 10, 14, and 24, Mar. 8-10, 14 and 29, Apr. 26, and June 9 and 13, 1950. Washington, 1950. 370 p.

7991 U. S. PRODUCTION AND MARKETING ADMIN. Cotton classing services available to farmers. Washington, 1950. 3 p. 1.956 C82C8223

7992 U. S. PRODUCTION AND MARKETING ADMIN. Estimated grade and staple length of upland cotton ginned in the United States prior to December 1, 1949. Washington, 1950. 2 p. 1.9422 C8G752

7993 U. S. PRODUCTION AND MARKETING ADMIN. Market outlets for cotton in some of the principal cotton fabrics, by W. J. Martin and J. H. McLure. Washington, 1950. 113 p. 1.956 C82M344

7994 U. S. PRODUCTION AND MARKETING ADMIN. Schedule of selling prices for 1950 program shorn domestic wools. Washington, 1950. 7 p. 1.956 L75Sch2

7995 U. S. PRODUCTION AND MARKETING ADMIN. COTTON BR. Color measurements of cotton; preliminary report on application of new automatic cotton colorimeter, by D. Nickerson. Washington, 1950. 18 p. 1.956 C82C712

7996 U. S. PRODUCTION AND MARKETING ADMIN. COTTON BR. Data relating to practices and costs in the primary marketing of cotton, by A. J. Fortenberry. Washington, 1950. 4 p. 1.956 C82D26

7997 U. S. PRODUCTION AND MARKETING ADMIN. COTTON BR. Evaluation of cotton ginning costs and quality, High Plains area of Texas, 1946 through 1948, by Z. M. Looney, R. A. Montgomery, and W. E. Franklin, Jr. Washington, 1950. 41 p. 1.956 C82Ev1

7998 U. S. PRODUCTION AND MARKETING ADMIN. COTTON BR. A modified technique for making cotton fiber maturity tests, by F. Carpenter and R. L. Lee, Jr. Washington, 1950. 17 p. 1.956 C82M72

7999 U. S. PRODUCTION AND MARKETING ADMIN. MARKETING AND FACILITIES RESEARCH BR. A comparison of two-wheel hand trucks and clamp-type industrial trucks for transporting uncompressed bales of cotton from blocked area to dinky press, by C. D. Bolt and A. W. Steinberg. Washington, 1950. 7 p. 1.956 M343C732

8000 WAKEHAM, H., and WAKELIN, J. H. The application of punched-card techniques to data on the physical properties of single fibers. *Textile Res. J.* 20: 605-612. Ref. Sept.1950. 304.8 T293

8001 WALLACE, W. D. Production of Manila hemp in Philippines needs encouragement to hold position. *Foreign Trade* 8:590-592. Oct.7,1950. 286.8 C162

The industry.

8002 WAMBLE, A. C. Cleaning cotton linters. *Cotton Gin & Oil Mill Press* 51(22):22. Oct.28,1950. 304.8 C822

Also in *Oil Mill Gaz.* 55(4):25 Oct.1950. 307.8 O153

8003 WILLIAMS, J. F., VLASES, G., JR., and FIELDING, H. The effect of manufacturing processes on the fiber length distribution and staple length of raw cotton used in grey yarn and grey cloth. *Textile Res. J.* 20:719-726. Ref. Oct.1950. 304.8 T293

8004 WOOL. *Amer. Fabrics* 15:99-127. Fall 1950. 304.8 Am34

8005 WOOL fiber under the electron microscope. (In Italian.) *Laniera* 64:581,583,585,587,589,591,593,595. Aug.1950. 45.8 B63

8006 WOOL grease. I. *Wool Sci. Rev.* 1950(6):43-51 Sept.1950. 304.8 W887

8007 YEAMAN, A. F. Time of decision for wool producers. *Farming News & No. Brit. Agr.* 102(32): 3. Aug.11,1950. 10 N82

Review of the wool marketing scheme, Great Britain.

8008 ZAHN, H. Zur superkontraktion von keratinfasern. *Kolloid Z.* 117:102-108. Ref. May 1950. 384 Z315

8009 ZAKI ABDEL MOTAAL, H. E. The cotton policy. *Egypt News B.* 1950:18-19. May 1950. 110 Eg9B

8010 ZENTLER, A. P., and FRASER, S. La hausse du prix de la laine brute. *Monit. Textile* 12:1187-1188. Sept.1950. 304.8 M74

## FRUITS, VEGETABLES, AND NUTS

8011 AUBONNE, G. D'. L'activité de la Fédération Internationale depuis le 1er Congrès des Producteurs de Jus de Fruits à Paris. (Sum.) *Jus de Fruits* 10:33-34. Fourth Q.1950. 389.68 J98

English summary.

International Federation of Fruit Juice Producers.

8012 BENEVIDES, R. The pineapple problem of São Miguel. (In Portuguese.) *Azores. Comis. Regulad. dos Cereais* B. 6(12):27-50. Second Semes.1950. 15 Az6

8013 BRANAS, J. Autour de l'ampélographie. *Prog. Agr. et Vitic.* 1950:177-182. Sept.17/24,1950. 14 P94

8014 BRYANT, H. E. We can be sure of change. *West. Grower & Shipper* 21(12):109. Nov.1950. 280.38 W52

In the fruit and vegetable industry.

8015 BULLE, E., and CABASSON, F. La production fruitière dans le Gard. *Vitic. Arbor.* 95:313-316. Nov. 1949. 95.8 R322

8016 BURKHART, L. \$27 million Arizona lettuce. *Prog. Agr. Ariz.* 2(3):Oct./Dec.1950. 6 P9452

8017 CHANEY, C. M. Government forecasts all-time record crop. *Cranberry World* 4(9):3,5. Sept.1950. 280.28 C85

8018 DALRYMPLE, A. J. What's wrong with B.C. spuds? Plenty that could be fixed. *Farm & Ranch Rev.* 46(9):16-17. Sept.1950. 7 F223

Potato industry in British Columbia.

8019 DIMBULANE, F. Vegetables & fruits—Uva Division. *Marketing* 2(2):61-62. July 1950. 280.38 M349

Ceylon.

8020 EAUBONNE, G. D'. Impressions. *Jus de Fruits* 10:27. Fourth Q.1950. 389.68 J98

Text in English, p. 28.

International Congress of Fruit Juice Producers.

8021 EAUBONNE, G. D'. Jus de fruits fruits et derives. *Jus de Fruits* 1950(9):11. Second Q.1950. 389.68 J98

Text also in English, p. 12.

8022 EAUBONNE, G. D'. Le 2e Congrès International des Producteurs de Jus de Fruits. *Jus de Fruits* 10:11-13. Fourth Q.1950. 389.68 J98

Text in English, p. 13-14.

8023 FRIEND, W. H. Timely articles on agricultural topics. Future of the Texas citrus industry. *Tex. Farming & Citric.* 27(3):7. Sept.1950. 80 T31

8024 GLASER, L. S. The state of the pickle industry. *Canning Trade* 73(16):7-8. Nov.6,1950. 286.83 T67

8025 GORTER, W. Economic behavior and the California orange industry. *Stanford U. Abs. Diss. (ser.8)* 35:147-151. Nov.30,1949. 241.8 St2

8026 GROENEVELD, G. Versandgebiet Weser-Ems. *Kartoffelwirtschaft* 3:357. Sept.8,1950. 286.83 K14

8027 GUSLER, G. Too many spuds again? *Nebr. Farmer* 92(19):26-27. Oct.7,1950. 6 N27

8028 HOLSCHER, H. Die Paulsen'sche kartoffelzucht. *Kartoffelwirtschaft* 3:360-361. Sept.8,1950. 286.83 K14



- 8029 LARUE, P. Démographie viticole. *Prog. Agr. et Vitic.* 1950:198-199. Sept.17/24,1950. 14 P94  
In Sidi bel Abbès.
- 8030 MANN, D. Roasting ears take the spotlight. *Kans. Farmer* 87(18):4,26. Sept.16,1950. 6 K13  
Sweet corn industry in Wyandotte County.
- 8031 MARSHALL, J. Tartrate and citrate industry in Australia. *Austral. Food Mfr.* 20(2):18,20. Sept.5, 1950. 389.8 Au7  
Also in *Australas. Baker & Millers' J.* 53(642):101. Aug.1950. 298.8 Au7
- 8032 MARTIN, G. A. Santa Maria. *West. Grower & Shipper* 21(12):24,27-28,31. Nov.1950. 280.38 W52  
Vegetable industry.
- 8033 MÉRITENS, P. DE B. DE. La vallée de l'Ouerha Maroc. *Prog. Agr. et Vitic.* 1950:192-197. (Cont.) Sept.17/24,1950. 14 P94  
Orange industry.
- 8034 MILLER, H. W., JR. U. S. apple growers advised to reduce varieties to meet markets' demands. *Country Life* [Vernon] 34(9):27. Sept.1950. 7 C832
- 8035 MONTANARI, V. Fruit production in the Venezia. (In Italian.) *Agr. delle Venezie* 4:149-157. June/July 1950. 16 Ag826
- 8036 MULLEN, H. H. Growers' optimism keynotes citrus institute; record crowd keeps experts on program busy giving answers to questions on all phases of the industry. *Fla. Grower* 58(10):9,16-17,23. Oct.1950. 80 F6622
- 8037 MUMFORD, H. W., JR. The outlook for vegetables in 1951. *Washington, U. S. Bur. Agr. Econ.*, 1950. 3 p. 1.941 A2M91  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.
- 8038 PARVIN, F. W. Present situation, outlook and competition in the citrus industry. *Citrus Indus.* 31(10):8-9. Oct.1950. 80 C49
- 8039 PEARSON, I. A. Imperial Valley—down through the years in the fruit and produce business. *West. Grower & Shipper* 21(12):12-14,17. Nov.1950. 280.38 W52
- 8040 PECHNIK, E., BORGES, P., and SIQUEIRA, R. DE. A study on the Brazil nut. (In Portuguese.) *U. do Brasil. Inst. de Nutr. Trab. e Pesquisas* 3:113-148. Ref. 1950. 389.9 R47  
English summary.  
The industry in Brazil.
- 8041 PIMENTEL, P. The orange. (In Portuguese.) *Rio Grande do Sul. Sec. da Agr., Indús. e Com. Inform. Rur.* 3(11):6-7. May 1950. 9.2 R4741  
The industry.
- 8042 PORTUGAL. JUNTA NACIONAL DAS FRUTAS. Report of the activity of the technical services in 1948. (In Portuguese.) *Portugal. Junta Nac. das Frutas. B.* 9:529-652. Fourth Q.1949. 286.3939 P83  
English summary.  
Marketing, trade, and other research.
- 8043 PROTO, M. This year's citrus production. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 69:7-8. Oct.11,1950. 281.8 Ag3
- 8044 PUBOLS, B. H. The outlook for fruits and tree nuts in 1951. *Washington, U. S. Bur. Agr. Econ.*, 1950. 3 p. 1.941 A2P96  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.
- 8045 RICE, W. S. Harvest reveals extent of heat injury to prunes; 140,000-ton crop estimated. *Sunsweet Standard* 34(5):6. Oct.1950. 286.83 Su7
- 8046 RILEY, E. History of the almond industry: trouble followed price break after World War I. *Almond Facts* 14(5):11. (Cont.) Sept./Oct.1950. 280.28 AL62
- 8047 SAMARAKIS, B. A. Situation de la viticulture dans le monde (rapport général). *Off. Internatl. du Vin. B.* 23(234):7-23. Aug.1950. 390.8 B87
- 8048 SANDFORD, B. Dates. The oldest fruit in the world. *Fruit, Flower & Veg. Trades' J.* 98(17):16-17,36. Oct.21,1950. 80 F946
- 8049 SANGERS, W. J., and PHILIPPONNEAU, M. L'horticulture aux Pays-Bas. *France. Min. de l'Agr. Rev. Etudes & Monog.* 1950:177-185,187,189-195,197-199. Sept.1950. 281.8 F84
- 8050 SCADE, J. From the coconut to the cake. *Confectioner, Baker & Restaurateur* 79(1056):50-51,72. Oct.1950. 389.8 C768  
Description and uses.
- 8051 SCHMID, G. Mehr zurückhaltung in der anpflanzung von obstbäumen. *Schweiz. Z. f. Obst- u. Weinbau* 59:370-371. Sept.30,1950. 80 Sch9
- 8052 SCHMIDT, H. D. Die emsländ kartoffelmehl- und dextrinfabrik. *Kartoffelwirtschaft* 3:360. Sept.8,1950. 286.83 K14  
Potato starch industry.
- 8053 SCHMUKI, J. Eröffnung des zweiten internationalen kongresses. *Jus de Fruits* 10:23. Fourth Q. 1950. 389.68 J98  
Text in English, p. 24-25.
- 8054 SCHREIBER, H. Der kartoffelhandel in Weser-Ems. *Kartoffelwirtschaft* 3:366-367. Sept.8,1950. 286.83 K14
- 8055 SCHRODER. Pflanzkartoffelvermehrung in Weser-Ems. *Kartoffelwirtschaft* 3:361-362. Sept.8,1950. 286.83 K14
- 8056 SEITZER. Was leistet die organisation für ihre mitglieder? *Obstbau* 69:113-114. Aug.1,1950. 80 Ob73
- 8057 SHAW, C. L. Round-up of Canadian food developments. *West. Canner & Packer* 41(11):55-56. Oct. 1950. 286.83 W522  
Fruit and vegetables.
- 8058 SILVEIRA, A. DE C. Regeneration of the quince tree in Rio Grande do Sul. (In Portuguese.) *Rio Grande do Sul. Sec. da Agr., Indús. e Com. Inform. Rur.* 3(11):1-2. May 1950. 9.2 R4741
- 8059 SJETNE, E. Fruit growing problems now and in the future. (In Norwegian.) *Norsk Hagetide* 166:155-157. (To be cont.) Aug.1,1950. 80 N81
- 8060 TAVERNETTI, A. A. The Salinas deal in the roaring twenties. *West. Grower & Shipper* 21(12):18, 21-22. Nov.1950. 280.38 W52  
Lettuce.
- 8061 THOMSON, R. K. Pineapple industry in Malaya is recovering from war effects. *Foreign Trade* 8:598-600. Oct.7,1950. 286.8 C162
- 8062 U. S. BUR. OF AGRICULTURAL ECONOMICS. 1950 cranberry prospects. *Portland, Oreg.*, 1950. 1 p. 1.941 H8C85
- 8063 VAN DYK, J. H. Production, marketing and distribution of vegetables. *Rhodesian Farmer* 4(a):23. Aug.2,1950. 24 R347
- 8064 VAUGHAN, W. T. A quienes debemos los principales frutos comestibles. *Campesino* [Santiago] 82(8):51-53,55,57. Aug.1950. 9.3 So12  
History.
- 8065 VOGT. La viticulture allemande, son étendue, sa structure et son importance économique. *Off. Internatl. du Vin. B.* 22(226):4-11. Dec.1949. 390.8 B87
- 8066 WALLACE, W. D. Coconut industry is important factor in Philippine economy. *Foreign Trade* 8:530-532. Sept.30,1950. 286.8 C162
- 8067 WARNER, H. A. The Yuma deal 25 years ago. *West. Grower & Shipper* 21(12):32,35. Nov.1950. 280.38 W52  
Vegetables.
- 8068 WELCH, J. H. Full steam ahead for the Texas Citrus Commission. *Tex. Farming & Citric.* 27(3):6. Sept.1950. 80 T31
- 8069 WENCK. Zur diesjährigen obsternte. *Württemb. Wchnbl. f. Landwirt.* 117:817-818. Sept.2,1950. 18 W96

#### Analysis and Composition

- 8070 BEACHAM, L. M. Report on processed vegetable products. *Assoc. Off. Agr. Chem. J.* 33:503-504. Aug.15,1950. 381 As7  
Analysis.
- 8071 BUSTRILLOS, A. D., and BANZON, J. The equilibrium moisture of copra at various relative humidities. *Philippine Agr.* 33:77-87. Oct./Dec.1949. 25 P542
- 8072 CHAVES, J. M., PECHNIK, E., and MATTOSO, I. V. Pupunha [Guillemia gasipaes]. (In Portuguese.) *U. do Brasil. Inst. de Nutr. Trab. e Pesquisas* 3:209-216. 1950. 389.9 R47  
English summary.  
Composition and nutritive value.
- 8073 CONNELL, J. J., and others. Grapefruit and lemon gums. *I. Chem. Soc. J.* 1950:1696-1700. July 1950. 382 L84J  
R. M. Hainsworth, E. L. Hirst, and J. K. N. Jones, joint authors.



8074 DAVIS, L. L., and TERRY, M. E. A better, cheaper taste test method for smaller packers. Food Packer 31(12):28-29,34-35. Ref. Nov.1950. 286.83 C165

Fruit and vegetables.

8075 FELLEBERG, T. VON. Schweißige säure in süßmost und alkoholfreiem traubensaft. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hyg. 41:385-388. 1950. 389.9 Sw6

8076 FREITAS, G. G. DE. Análises físicas e químicas de frutas cítricas cultivadas na Estação Experimental de Fruticultura, em Taquari [Physical and chemical analyses of citrus fruits cultivated at the Fruit Production Experiment Station, in Taquari]. Rio Grande do Sul (State) Sec. de Estado dos Negócios da Agr., Indús. e Com. C. 75,4 p. 1949? 9.2 R473C

8077 GORESLINE, H. E. Report on microbiological methods for frozen fruits and vegetables. Assoc. Off. Agr. Chem. J. 33:744. Aug.15,1950. 381 As7

8078 GRAU, C. A., and LANDOLFI, J. M. Identificación de naranjadas. Buenos Aires. Min. de Salud Púb. y Asistencia Social. Rev. de Sanid., (1948/49)2:125-134. 1950. 449.9 B86

8079 GUDJONS, H. Ein vorschlag zur qualitätsbestimmung von pektingen. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 90:426-431. June 1950. 384 Z39

8080 HADORN, H., JUNGKUNZ, R., and BIEFER, K. W. Über einheimische konfitüren des handels, ihre analyse und beurteilung. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hyg. 41:340-371. Ref. 1950. 389.9 Sw6

8081 HELSEL, W. G. Report on extraneous materials in fruit products. Assoc. Off. Agr. Chem. J. 33:565-566. Aug.15,1950. 381 As7

8082 HENGLEIN, F. A. Die bewertung von handelspektinen und deren gewinnungsverfahren durch gellier-einheiten. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 90:417-426. Ref. June 1950. 384 Z39

8083 HENRY, A. M. Report on nuts and nut products. Assoc. Off. Agr. Chem. J. 33:753-755. Aug.15, 1950. 381 As7

8084 JOSLYN, M. A. Report on peroxidase in frozen vegetables. Assoc. Off. Agr. Chem. J. 33:504-517. Aug.15,1950. 381 As7

8085 KONOPEL'KO, K. G. Qualitative and quantitative determination of carotene in vegetables, fruit and green leaves of plants. (In Russian.) Priroda 39(6):69-70. June 1950. 410 P933

8086 LAL, S. B. Microbiological assay of amino-acids in gram and ragi. Indian J. Med. Res. 38:131-137. Ref. Apr.1950. 448.8 In22

8087 MACDONNELL, L. R., and others. The specificity of pectinesterases from several sources with some notes on purification of orange pectinesterase. Arch. Biochem. 28:260-273. Ref. Sept.1950. 381 Ar2

R. Jang, E. F. Jansen, and H. Lineweaver, joint authors. 8088 MAKOWER, R. U. Methods of measuring the tenderness and maturity of processed peas. Food Technol. 4:403-408. Ref. Oct.1950. 389.8 F7398

8089 MILOVANOV, L. V. Characteristics of table varieties of grapes ripening in storage. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):21-23. July 1950. 95.8 V77

8090 PILGRIM, A. J. Quality tests and a comparison of seedless and caprifig figs. Calif. Fig Inst. Proc. Annu. Res. Conf. 4:9-11. 1950. 93.44 C122P

8091 QURESHI, M. H. Study in the properties of starch from Punjab pulses. Pakistan J. Sci. Res. 1:63-68 Apr.1949. 475 P173

8092 RAFIQUE, C. M., and SMITH, F. The constitution of guar gum. Amer. Chem. Soc. J. 72:4634-4637. Ref. Oct.1950. 381 Am33J

8093 RODRIGUEZ-CHAVES, L. Las virtudes de la alcachofa. Agricultura [Madrid] 19:385-386. Aug.1950. 15 Ag84

Analysis and composition.

8094 SIQUEIRA, R. DE., PECHNIK, E., and VOGEL J. A report about some fruits consumed in Brazil. (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 3:149-172. Ref. 1950. 389.9 R47

English summary.

Analysis and nutritive value.

8095 SMITH, F. R. Report on extraneous materials in vegetable products. Assoc. Off. Agr. Chem. J. 33:562-564. Aug.15,1950. 381 As7

8096 SPRING, F. S., and STARK, J. Piperettine from Piper nigrum; its isolation, identification, and synthesis. Chem. Soc. J. 1950:1177-1180. Apr.1950. 382 L84J

8097 TAUFEL, K., and BURMEISTER, H. Polymere kohlenhydrate in sauerkrautlake. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 91:22-24. July 1950. 384 Z39

8098 UNDERWOOD, J. C. Factors influencing quality of tomato paste. I. Food Res. 15:366-372. Ref. Sept./Oct.1950. 389.8 F7322

Analysis of California paste.

8099 WINKLER, W. O. Report on decomposition in fruits and fruit products. Assoc. Off. Agr. Chem. J. 33:709-716. Aug.15,1950. 381 As7

8100 YAKOWITZ, M. G. Report on extraneous materials in nut products. Assoc. Off. Agr. Chem. J. 33:550-551. Aug.15,1950. 381 As7

8101 YOUNKIN, S. G. Measurement of small color differences in tomato purees. Optical Soc. Amer. J. 40:596-599. Sept.1950. 334.8 Op7

#### Consumption and Utilization

8102 FUGETT, K. A., BAYTON, J. A., and BITTING, H. W. Citrus preferences among customers of selected stores. Tex. Agr. Expt. Sta. B. 722,48 p. June 1950. 100 T31S

8103 KIRKPATRICK, M. E., and SMITH, M. H. Evaporated apple rings can be used many ways. J. Home Econ. 42:655-656. Oct.1950. 321.8 J82

8104 KUZNETS, G. M. Domestic demand for lemons. Calif. Agr. [Calif. Sta.] 4(10):2. Oct.1950. 100 C12Cag

8105 MERCK & CO. Survey report: healthful quality and taste stimulate juice sales in urban Ontario. Food Canada 10(10):28. Oct.1950. 389.8 F7323

Summary of a study on preferences in canned fruit juice carried out by Canadian Facts Limited.

8106 RASMUSSEN, M. P., and HINKLE, W. B. Consumer purchases of fresh fruits at retail, 1946-47 through 1948-49. N. Y. Agr. Col. A. E. 754,21 p. Sept. 1950. 281.9 C81

8107 RASMUSSEN, M. P., and HINKLE, W. B. Consumer purchases of fresh vegetables at retail, 1946-47 through 1948-49. N. Y. Agr. Col. A. E. 752,22 p. Aug. 1950. 281.9 C81

8108 WHITE, E. D. Reveal new uses for muscadine grapes. Food Indus. 22:1719-1721. Oct.1950. 389.8 F737

#### Distribution, Marketing, and Transportation

8109 ARMSTRONG, P. S. Valencia marketing. Fruit & Veg. Rev. 12(7):14-15. Oct.1950. 80 C1224

8110 BARGER, W. R. Performance test with overhead fan cars. Grapes from Delano, Calif., to New York City, October 1949. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 231,10 p. May 15,1950. 1.9 P772Ht

8111 BARTELT, H. N. Progress and air freight. West. Grower & Shipper 21(12):104-105,151. Nov.1950. 280.38 W52

Fruit and vegetables.

8112 BAUER, E. L. Publizitaet als absatzfoerdernde massnahme. (Sum.) Jus de Fruits 10:43-44. Fourth Q. 1950. 389.68 J98

For fruit juices.

8113 BEUNDER, G. W. The distribution of vegetables and fruit. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:495-505. Aug./Sept.1950. 86 N384

English summary.

8114 BOWMAN, V. V. Marketing changes suggested for spinach, kale and collards. Pre-Pack-Age 4:26-27. Sept.1950. 280.38 P91

Preliminary.

8115 CALIFORNIA. BUR. OF MARKETS. Marketing order for dates, as amended, effective September 25, 1950. Sacramento?1950. 20 p. 280.3939 C123Md

8116 CALIFORNIA. BUR. OF MARKETS. Marketing order for sales promotion of fresh Bartlett pears, effective June 29, 1950. Sacramento?1950. 15 p. 280.3939 C123Bp

8117 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Lettuce; producing areas, shipping seasons, market summary, 1949 and 1950, by R. C. Rock. Berkeley,1950. 17 p. 275.29 C12Le



- 8118 CAROLUS, R. L. Better merchandising of home-grown vegetables. Pre-Pack-Age 4(2):9-10,12-14. Oct.1950. 280.38 P91
- 8119 COOK, H. T. Investigations of diseases of fruits and vegetables in transit, storage and at the market, within the United States Department of Agriculture. Plant Dis. Rptr. Sup. 195:383-397. Ref. Sept.15, 1950. 1.9 P69P
- 8120 EBERLY, N. M. How to sell more vegetables in your roadside market. Mkt. Growers J. 79(9):20-21. Sept.1950. 6 M34
- 8121 ELLIOTT, R. Prospects for marketing Hawaiian papaya products in the United States. Hawaii. Agr. Expt. Sta. Agr. Econ. B. 1,94 p. Ref. June 1950. 280.9 H312
- 8122 FORD, K. E., and PENNY, N. M. Marketing okra and other vegetables, Grady County, Georgia, 1949. Ga. Agr. Expt. Sta. Mimeog. Ser. 21,30 p. May 1950. 100 G29M
- 8123 FOYTIK, J. Controlled marketing of Tokays. Calif. Agr. [Calif. Sta.] 4(9):2,16. Sept.1950. 100 C12Cag
- 8124 FUSSELL, J. Breaking roadblocks to frozen juice markets. News Farmer Coop. 17(7):11,19-20. Oct.1950. 186.2 N47
- Transportation problems in shipping frozen concentrated citrus juices.
- 8125 GAD. The marketing of vegetables. (In Hebrew.) Hassadeh 30:555-556. July 1950. 26 H27
- 8126 GEMEREN, P. VAN. Transportation of our fruit. (In Dutch.) Fruitteelt 40:672-674,684. Sept.7,1950. 86 N28
- 8127 GLENN, H. A. Proper refrigeration is vital when shipping [vegetable] produce. Mkt. Growers J. 79(9):10. Sept.1950. 6 M34
- 8128 GOLDSBOROUGH, G. H. Coordinating the marketing of Florida citrus fruit. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. Misc. Rpt. 143,69 p. Ref. Oct.1950. 166.3 M68
- 8129 GOODRICH, H. E. Kitchens—millions of them—set your pace. West. Grower & Shipper 21(12):95, 97,100,102. Nov.1950. 280.38 W52
- Public relations in the vegetable industry.
- 8130 GORMAN, E. A., JR. Produce protection in rail transit; a discussion of the several ways to precool fresh fruits and vegetables and keep them cool during shipment to market. Appleland News 14(9):17-20. Ref. Sept.1950. 80 Ap53
- 8131 GROOT, A. Should the orchard acreage be increased? (In Dutch.) Fruitteelt 40:636-638. Aug.24, 1950. 86 N28
- Chiefly on marketing prospects.
- 8132 KOLLE, H. Selbsthilfe beim obstabsatz. Württemb. Wchnbl. f. Landwirt. 117:841-842. Sept.9, 1950. 18 W96
- Also in Bad. Landwirt. Wchnbl. 117:611. Sept.9,1950. 18 B142
- 8133 KROSS, J. I. Talk on cranberry marketing problems. Cranberries 15(6):16-21. Oct.1950. 80 C852
- 8134 LUTZ, J. M., and others. Refrigerator car preheating tests comparing alcohol, end bunker charcoal and underslung charcoal heaters, Grand Forks, North Dakota, February and March, 1950. U. S. Bur. Plant Indus., Soils & Agr. Engin. H. T. & S. Off. Rpt. 230,13 p. Sept.5,1950. 1.9 P772Ht
- V. Reubelt, H. Findlen, and A. D. Edgar, joint authors. Preheating cars for shipment of potatoes during the winter months.
- 8135 MCGAHA, M. E. Potatoes aren't hardware. Mktg. Activ. 13(10):7-9. Oct.1950. 1.942 A8M34
- Damage to potatoes in marketing channels.
- 8136 MCKAY, A. W. Members knowledge and attitudes, Calavo Growers of California. U. S. Farm Credit Admin. C. C 137,15 p. June 1950. 166.2 C4923
- 8137 MCNALLY, E. Committee approves 1950 advertising campaign. Cranberry World 4(9):6-7. Sept. 1950. 280.28 C85
- 8138 MALPHRUS, L. D., and CONLOGUE, R. M. Only 58 % of this little tomato went to market. Pre-Pack-Age 4:22-23,31. Sept.1950. 280.38 P91
- Losses and marketing costs.
- 8139 MARTIN, W. R., JR. Apple merchandising. Mo. State Hort. Soc. Hort. News 1950:1-2. Oct.1950. 81 M692H
- 8140 MARTINI. Kartoffelabsatz und kartoffelverwertung. Württemb. Wchnbl. f. Landwirt. 117:818. Sept.2,1950. 18 W96
- 8141 MASON, J. J. Agency commission; NSW fruit agents claim for raising 7 1/2% rate because of increased selling and handling costs. Citrus News 26:106-107,111. July 1950. 80 C494
- 8142 MUIJZENBERG, E. W. B. VAN DEN. Transport in horticulture. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:553-565. Ref. Aug./Sept.1950. 86 N384
- English summary.
- 8143 PARKER, W. Navels must be good; frozen concentrate introduces a new element into navel orange marketing. Citrus Leaves 30(11):14-17. Nov.1950. 80 C492
- 8144 PEREIRA, M. DE L. S. Abastecimento de produtos horticolas a Lisboa [Provision of horticultural products to Lisbon]. Lisboa, Junta Nacional das Frutas, 1949. 209 p. 91.13 P41
- Regional sources for and marketing of vegetables.
- 8145 PIPER, W. E. Carnberries—a native New England product. New Eng. Grocery & Mkt. Mag. 18: 29-30. Nov.1950. 286.83 N44A
- Marketing.
- 8146 RECHERCHES sur le marché des fruits et légumes frais à Paris. France. Inst. Natl. de la Statis. et des Études Econ. B. Mens. de Statis. Sup. (n.s.):1950: 196-208. Apr./June 1950. 280 St22B
- 8147 ROBINSON, W. F. Program of the Florida Citrus Commission. Citrus Indus. 31(10):5-7. Oct.1950. 80 C49
- 8148 SELTZER, R. E. Desert grapefruit goes to market. Ariz. Agr. Expt. Sta. B. 230,61 p. July 1950. 100 Ar4
- 8149 SLATER, L. E. Apple handling and merchandising in retail stores. N. Y. Agr. Col. A. E. 733,36 p. Aug.1950. 281.9 C81
- 8150 STOMBERG, P. J. The influence of price, quality and promotion in the marketing of canned fruit juices and other products. Canning Trade 73(17):7-8,22. Nov.13,1950. 286.83 T67
- 8151 U. S. PRODUCTION AND MARKETING ADMIN. Digest of decisions of the Secretary of Agriculture under the Perishable Agricultural Commodities Act, v. 2, by W. L. Evans. Washington, 1950. 72 p. 1.9 Ec7Ped
- Fruit and vegetable marketing.
- 8152 U. S. PRODUCTION AND MARKETING ADMIN. The wholesale markets for fruits, vegetables, poultry, and eggs at Tulsa, Okla., by G. E. Turner, A. B. Lowstuter, F. L. Faber, H. Rector, E. Wilson, Jr., and C. E. Walker. Washington, 1950. 78 p. 1.956 M343W624
- 8153 VAN DYKE, A. W. Retailing apples. Conn. Agr. Col. Ext. L. 6,3 p. Sept.1950. 275.29 C76B
- 8154 WEST, H. I. Only good pecans go North. Prog. Farmer, Ga.-Ala.-Fla. Ed. 65(10):24,124. Oct.1950. 6 P945G
- Grading, Inspection, Standardization, and Quality**
- 8155 ALLEN, W. R., and others. DDT residues on currants and gooseberries. Sci. Agr. 30:380-383. Sept. 1950. 7 Sci2
- H. P. Richardson, B. Berck, and A. G. Robinson, joint authors. For control of Epochra canadensis.
- 8156 AUBERT, P. Qualité des fruits et époque de cueillette. Rev. Romande d'Agr., de Vitic. et d'Arbor. 6:61-63. Aug.1950. 17 J82A
- 8157 AUBIN, L. Les fruits de luxe. Rev. Hort. 122: 202-205. Sept./Oct.1950. 80 R32
- 8158 BARIBEAU, B. Pourquoi perdre ce million de dollars? B. des Agr. 46(9):13-14,68-70. Sept.1950. 7 B872
- Improvement of the quality of Quebec potatoes.
- 8159 BOWMAN, F. Studies of blackening and waxiness in potatoes. (Abs.) J. Home Econ. 42:730-731. Nov.1950. 321.8 J82
- 8160 CONNER, J. D. FDA hearing ends. Agr. Chem. 5(10):32-33. Oct.1950. 381 Ag8
- Spray residue tolerance on fruit and vegetables.
- 8161 ENGLISH, H. P. Effect of 1949 bean grades. Grain & Feed J. Consolidated 105(6):18. Sept.27,1950. 298.8 G762
- 8162 FABIAN, F. W., and HENDERSON, R. H. Leuconostoc mesenteroides as the cause of ropiness in canned peaches. Food Res. 15:415-419. Ref. Sept./Oct. 1950. 389.8 F7322



- 8163 FIRSOVA, M. K. Methods for determining cooking time of legumes. (In Russian.) Sele. i Semen. 17(5):70-71. May 1950. 61.9 Se5
- 8164 FLORIDA CITRUS COMMISSION. List of registered labels, brands & trademarks, 1949-50 season. Lakeland, 1950. 26 p. 280.39 F663
- 8165 GERSONS, L. Checking of quality of jams and other processed horticultural products. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:717-728. Aug./Sept. 1950. 86 N384  
English summary.  
Includes frozen fruit and vegetables.
- 8166 GILLESPIE, F. L., and SCOTT, R. C. Bruising on apples, Delicious and Stayman Winesap varieties. Ohio. Agr. Expt. Sta. Res. C. 6,8 p. June 1950. 100 Oh3R
- 8167 GOODRICH, H. E. Newsman bites cantaloupe. West. Grower & Shipper 21(11):7,20. Oct. 1950. 280.38 W52  
Flavor.
- 8168 JOUHAUD, G. Aperçu sur la normalisation des fruits et légumes en France. Rev. Hort. 122:224-225. Sept./Oct. 1950. 80 R32
- 8169 KOCHOLATY, R. Microbiological oxidation of ethanol in volatile fruit concentrates. Food Res. 15:347-354. Ref. Sept./Oct. 1950. 389.8 F7322
- 8170 KRAMER, A. This meter gives better color evaluations; careful check of numerous methods for determining tomato juice color shows Hunter color-difference instrument turns in best measurement performance. Food Indus. 22:1897-1900. Ref. Nov. 1950. 389.8 F737
- 8171 LARTHE, R. Les vendanges de vignes nouvelles. J. de la France Agr. 6:1148-1149. Oct. 6/12, 1950. 14 J829  
Grape quality.
- 8172 MESCHTER, E. E. The safest path to a legal sugar content. Food Packer 31(12):24-25, 39-40, 42. Nov. 1950. 286.83 C165  
In preserves.
- 8173 SEITZER, Die fruchtpflege. Obstbau 69:117-118. Aug. 1, 1950. 80 Ob73  
Chiefly on quality and storage.
- 8174 SHORT, D. Hydro-cooling program means better produce for a bigger market. Mkt. Growers J. 79(9):12-14. Sept. 1950. 6 M34  
Quality-improvement program for market garden produce by the Minnesota Hydro-Coolers Association.
- 8175 SMITH, R. J. Statistical accuracy in automatic sampling. Citrus Leaves 30(10):20-21. Oct. 1950. 80 C492  
Sampling oranges for processing.
- 8176 STEWART, N. For apples and pears—grading and packing. Fruit-Grower 285:437-439. Oct. 5, 1950. 80 F941
- 8177 TRUFANT, R. A. Progress in quality control. Cranberries 15(4):19-21. Aug. 1950. 80 C852
- 8178 TYSSER, H. F. Quality of S.A. [South African] grapefruit criticised. Farmer's Wk. [Bloemfontein] 79:43. Aug. 16, 1950. 24 F225
- 8179 U. S. EXTENSION SERV. How to choose and use onions. U. S. D. A. PA-125,4 p. July 1950. 1 Ag84Pro  
Quality.
- 8180 U. S. EXTENSION SERV. How to choose and use potatoes. U. S. D. A. PA-120,4 p. July 1950. 1 Ag84Pro  
Quality.
- 8181 U. S. PRODUCTION AND MARKETING ADMIN. Check list of U. S. standards issued by the Fruit and Vegetable Branch (other than for processed products). Washington, 1950. 3 p. 1.9 Ec74
- 8182 U. S. PRODUCTION AND MARKETING ADMIN. U. S. standards for bunched beets. Washington, 1950. 3 p. 1.9 Ec74Bd
- 8183 U. S. PRODUCTION AND MARKETING ADMIN. United States standards for grades of canned grapefruit and orange for salad. Washington, 1950. 11 p. 1.956 A2Un3239
- 8184 U. S. PRODUCTION AND MARKETING ADMIN. United States standards for grades of frozen corn-on-the-cob. Washington, 1950. 7 p. 1.956 A2Un3238
- 8185 U. S. PRODUCTION AND MARKETING ADMIN. United States standards for grades of processed fruits and vegetables. Washington, 1950. 3 p. 1.9422 Fr5Un3
- 8186 WARNER, R. M. Quality in Calimyrnas, 1949 observations. Calif. Fig Inst. Proc. Annu. Res. Conf. 4:14-16. 1950. 93.44 C122P
- 8187 WHITTENBERGER, R. T., and NUTTING, G. C. Observations on sloughing of potatoes. Food Res. 15:331-339. Ref. July/Aug. 1950. 389.8 F7322
- 8188 ZWEIFEL, H. Eigenschaften, qualitätsanforderungen und herstellungsverfahren der kernobstsaefte. (Sum.) Jus de Fruits 10:45-46. Fourth Q. 1950. 389.68 J98  
English summary, p. 47.

### Packing and Packaging

- 8189 BLOUNT, J. P. Container and transportation research. West. Grower & Shipper 21(12):81-82, 84, 88, 93, 148. Nov. 1950. 280.38 W52  
Vegetables.
- 8190 DISSMORE, G. Packaged produce report. Natl. Grocers B. 37(10):58-59, 102. Oct. 1950. 286.83 N214
- 8191 FIELDING, A. M. Improved containers and loading methods for perishable commodities. (Digest.) Food Canada 10(9):45. Sept. 1950. 389.8 F7323  
Fruit and vegetables.
- 8192 HART, R., and STEWART, N. Packing apples in returnable market boxes. Gt. Brit. Min. Agr. Agriculture 57:236-239. Aug. 1950. 10 G79J
- 8193 HAUSNER, F. Die verpackung des obstes. Berufsgärtner 3(8):7-8. Aug. 1950. 80 B463  
Austria.
- 8194 HRUSCHKA, H. W. Peach prepackaging tests. Pre-Pack-Age 4:18. Sept. 1950. 280.38 P91
- 8195 MUSHROOM prepackaging—a growing industry activity. Pre-Pack-Age 4:10-16. Sept. 1950. 280.38 P91
- 8196 PORTEOUS, H. A peach cupful of profit. Calif. Farmer, North. Ed. 193:264-265. Sept. 23, 1950. 6 C126  
Packing.
- 8197 SWERTS, E. A propos d'emballages; du producteur au consommateur. Cour. Hort. 12:461-462. Aug. 1950. 80 C834  
Fruit.
- 8198 TAYLOR, J. Pros and cons of packaging. Fruit & Veg. Rev. 12(7):16-17. Oct. 1950. 80 C1224  
Fruits and vegetables.
- 8199 U. S. PRODUCTION AND MARKETING ADMIN. FRUIT AND VEGETABLE BR. List of manufacturers of fruit and vegetable hampers and baskets. Rev. Washington, 1950. 20 p. 1.942 F2L69

### Prices, Price Control, and Rationing

- 8200 CAUWENBERGHE, E. VAN. Prix moyens généraux et comparatifs pour pommes, poires et prunes, pour la production fruitière de l'Ecole d'Horticulture de l'Etat à Vilvorde. Fruit Belge 18:119-121. Aug. 1950. 80 F9493
- 8201 KELLY, R. A., and others. Relationship of price and quality of potatoes at retail level. Minn. Agr. Expt. Sta. B. 406,28 p. June 1950. 100 M66  
H. O. Werner, F. A. Krantz, P. Hemphill, and M. E. Cravens, joint authors.
- 8202 KITCHIN-KERR, G. E. Orange retail prices. Citrus News 26:121,126-127. Aug. 1950. 80 C494  
Australia.
- 8203 KLUGE, T. O. Demand factors, not producer efforts, very largely determine field prices. Sunsweet Standard 34(5):4. Oct. 1950. 286.83 Su7  
Dried fruit.
- 8204 MALINVAUD, E. Possibilités d'établissement d'un indice des prix des fruits et légumes frais. Soc. de Statis. de Paris. J. 91:218-232. July/Sept. 1950. 260 P212J  
English summary.
- 8205 TYSSER, H. F. Citrus prices drop in Britain. Farmer's Wk. [Bloemfontein] 79:57. Sept. 6, 1950. 24 F225
- 8206 VONTOBEL, J. Der speisekartoffelpreis 1950. Grüne 78:931-932. Aug. 25, 1950. 17 Sch9  
Switzerland.



## Processing and Storage

- 8207 ALMEIDA, O. DE. Cooperative starch plants and distilleries. (In Portuguese.) Cooperativismo [Rio de Janeiro] 5(50):3-5. Aug.1950. 280.28 C7856  
From cassava.
- 8208 ARMSTRONG, P. S. Frozen orange concentrate affecting Valencia sales. Calif. Farmer, South. Ed. 193: 282-283. Sept.23,1950. 6 C126A
- 8209 ATKINSON, F. E., and STRACHAN, C. C. Peeling experiments with peaches and pears. (Sum.) Food Indus. So. Africa 3(4):30-31. Aug.1950. 389.8 F7372
- 8210 BAKER, C. E. Designing your own fruit storage. *Rur. New-Yorker* 100:667,676. Sept.16,1950. 6 R88  
Refrigerated storage.
- 8211 BARRAU, J. Conservation des pommes de terre. *Rev. Agr. de la Nouvelle-Calédonie* (n.s.)1(3/4): 6-7. Mar./Apr.1950. 25 R322
- 8212 BEAR, E. M. Apple storing seems no easier than growing. *Grower* [London] 34:616-617,619. Sept.23, 1950. 286.83 M34
- 8213 BOTTINI, E. Modern scientific and technical progress in raising the value of our citrus products. (In Italian.) *Ann. della Sper. Agr. (n.s.)*4(5,sup.),17 p. Ref. 1950. 16 An76  
English summary.
- 8214 BOYD, H. The value of ice in the preservation of fresh vegetables. *Mod. Refrig.* 53:267. Sept.1950. 295.8 M72
- 8215 BREKKE, J. E., and TALBURT, W. F. Preparation of fig powder. *Canner* 111(18):12-13,22. Nov.4, 1950. 286.83 C16  
Also in *Calif. Fig Inst. Proc. Annu. Res. Conf.* 4:22-24. 1950. 93.44 C122P
- 8216 BREKKE, J. E., and TALBURT, W. F. Prevention of sucrose hydrate formation in cold processed frozen fruit spreads. *Food Technol.* 4:383-386. Oct. 1950. 389.8 F7398
- 8217 CAIN, R. F. Purple hull peas at three stages of maturity: relation of time and temperature of blanch to tenderness. *Canner* 111(19):10-12. Nov.11,1950. 286.83 C16
- 8218 CAUSEY, K., and FENTON, F. Effects of four cooking pressures on commercially frozen broccoli. *J. Home Econ.* 42:649-651. Oct.1950. 321.8 J82
- 8219 CLOUD, H. R. Advances in evaporation, freezing made by minute maid plant. *Food Indus.* 22: 1891-1894. Nov.1950. 389.8 F737  
Manufacture of concentrated orange juice.
- 8220 COLLEY, D. G. The job ahead. 2. *Canner* 111 (16):14,16,18. Oct.21,1950. 286.83 C16  
The canned fruit and vegetable industry.
- 8221 CORREIA, E. M. Quelques considérations sur la préparation et la conservation des concentrés. (Sum.) *Jus de Fruits* 10:48. Fourth Q.1950. 389.68 J98  
Text in English.  
Fruit juices.
- 8222 CROCE, F. M. Desecación y deshidratación de peras. *Argentina. Min. de Agr. Almanaque* 25:305-312. 1950. 9 Ag874
- 8223 CRUESS, W. V. Freezing preservation of fruit juices. *Jus de Fruits* 1950(9):39-40. Second Q.1950. 389.68 J98
- 8224 DAWSON, E. H., GILPIN, G. L., and REYNOLDS, H. Procedures for home freezing of vegetables, fruits, and prepared foods; classified notes on review of literature. *U. S. D. A. Agr. Handb.* 2,106 p. Ref. Sept. 1950. 1 Ag84Ah
- 8225 DUBOIS, P. La conservation des pommes à cidre. *Défense Agr. de la Beauce et du Perche* 47:366. Sept.30,1950. 14 D36
- 8226 DUPAIGNE, P. L'application du froid aux jus de fruits. *Jus de Fruits* 1950(9):27-36. Ref. Second Q. 1950. 389.68 J98  
English summary, p. 36-37.
- 8227 ESCHINAZI, H. E. La recherche dans le domaine des produits de l'industrie des agrumes (citrus) en Israël. *Jus de Fruits* 1950(9):43-44. Second Q.1950. 389.68 J98  
English summary, p. 45.
- 8228 FAZI, R. DE. On the preservation of natural grape juice. (In Italian.) *Rass. Chim.* 2(3):23-25. Ref. May/June 1950. 385 R18
- 8229 FIDLER, J. C. The effects of ethylene on fruits and vegetables. *Gt. Brit. Min. Agr. Agriculture* 57:285-288. Sept.1950. 10 G79J  
Similar title in *Fruit-Grower* 2857:398. Sept.28,1950. 80 F941; *Food Mfr.* 25:457-458. Nov.1,1950. 389.8 F736
- 8230 FIDLER, J. C. Gas allows warmer fruit storage. (Sum.) *Grower* [London] 34:611-612. Sept.23,1950. 286.83 M34  
Apples and pears.
- 8231 FIRNSTAHL, J. P. Vacuum process aids quality in preserves. *West. Canner & Packer* 41(11):35-36,40. Oct.1950. 286.83 W522
- 8232 FRIEDMAN, B. A. Behavior of potato internal brown spot in stored tubers. *Phytopathology* 40:899-901. Oct.1950. 464.8 P56
- 8233 GIRAUDON, Le jus de raisin. (Sum.) *Jus de Fruits* 10:49. Fourth Q.1950. 389.68 J98  
Text in English, p. 50.  
Manufacture.
- 8234 GRAY, H. E. Farm refrigerated apple storage. *N. Y. Agr. Col. Cornell Ext. B.* 786,48 p. Oct.1950. 275.29 N48E
- 8235 HARRINGTON, W. O., and GRIFFITHS, F. P. WRRL [Western Regional Research Laboratory] "puffs" potatoes; crunchy, oil-free product seen as promising market item. Variety of flavors can be easily added. *Food Indus.* 22:1872,2005-2006. Nov.1950. 389.8 F737
- 8236 HEATH, B. What makes it tick? 10. *Austral. Food Mfr.* 20(2):12,14,16. Sept.5,1950. 389.8 Au7  
Jams, jellies and preserves.
- 8237 HEINZ, H. J., CO. Pickling success. *Pittsburgh, 1950?* 16 p. 389.25 H364P
- 8238 HIELE, T. VAN., and PLASSE, J. B. VAN DE. Gas-storage of Conference pears. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13:398-404. July 1950. 86 N384  
English summary.
- 8239 HUMMEL, M., and OKEY, R. Relation of concentration of canned tomato products to storage losses of ascorbic acid. *Food Res.* 15:405-414. Ref. Sept./Oct. 1950. 389.8 F7322
- 8240 JOHNSON, R. N., and GOULD, W. A. Homogenizing carrots best for baby foods. *Food Packer* 31(12):30-32,34. Nov.1950. 286.83 C165
- 8241 JOUGAN, E. Des divers procédés de déshydratation applicables aux fruits. *Monit. Agr.* 3(125):7. Aug.13,1950. 14 M744
- 8242 JOUGAN, E. Séchage des pommes et poires. *Monit. Agr.* 3(127):5. Sept.10,1950. 14 M744
- 8243 JOUGAN, E. Le séchage des raisins. *Monit. Agr.* 3(126):8. Aug.27,1950. 14 M744
- 8244 KÁC, V. Research of the methodics of the processing of fruit and vegetables in the canning-plant of the school-factory in Uhřetěves. (In Czech.) *Ceskoslov. Akad. Zeměděl. Sporn.* 22:704-711. 1950. 19.5 C332C  
English summary.
- 8245 KIDD, F., and WEST, C. The refrigerated gas storage of apples. *Gt. Brit. Dept. Sci. & Indus. Res. Food Invest. L.* 8,rev.,13 p. Ref. 1950. 389.9 G782L
- 8246 KRUM, J. K., and FABIAN, F. W. The bacteriology of the freshening process in pickle manufacturing. *Canner* 111(13):10-12. Sept.30,1950. 286.83 C16
- 8247 KÜHNE, H. Die physiologischen veränderungen einiger wertstoffgehalte der kopfkohlarten (Brassica oleracea L.) während der winterlagerung im mikrolagerungsversuch. *Züchter* 20:226-253. Ref. 1950. 442.8 Z8
- 8248 LAVOLLAY, J., and PATRON, A. Les phénomènes d'oxydation dans la production et la conservation des jus de fruits. (Sum.) *Jus de Fruits* 10:35-36. Fourth Q.1950. 389.68 J98  
Text in English, p. 36-38.
- 8249 LE RICHE, F. L. H., and BURGER, I. J. Studies in verband met die verwerking van groente [Studies in connection with the processing of vegetables]. VI. *Union So. Africa. Dept. van Landbou. Wetenskaplike Pam.* 287,6 p. 1950. 24 So84Sd  
Tests with carrot varieties.
- 8250 LEIGH, D. The squeeze is on the orange. *Butchers Advocate* 128(14):8-9. Oct.4,1950. 286.85 B97  
Frozen concentrated orange juice.



- 8251 LESTAING, J. Les variétés de raisins utilisables pour la préparation des jus de fruits. *Jus de Fruits* 1950(9):13-15. Second Q.1950. 389.68 J98  
English summary.
- 8252 LITWILLER, E. M. Manufacture of jellies and preserves. *Oreg. Agr. Expt. Sta. B.* 490, 4 p. Oct. 1950. 100 Or3
- 8253 MONROE, J. A. World outlook for canned pineapple. *U. S. Bur. Foreign & Dom. Com. Indus. Rpt. Canned Fruits & Veg.* 10(3):29-38. Aug.1950. 157.54 In26C
- 8254 MORSE, R. E. Canning with antibiotics—pro and con. *Food Indus.* 22:1679-1680. Oct.1950. 389.8 F737  
Vegetables.
- 8255 MRAK, E. M. Further microbial studies on yeasts during dehydration. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 3:16. 1949. 93.44 C122P
- 8256 MRAK, E. M., CRANE, J. C., and BLONDEAU, R. Processing seedless figs. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 4:11-13. 1950. 93.44 C122P
- 8257 MUKULA, J. On chemical prevention of storage rot in carrots. (In Finnish.) *Suomen Maataloustiet. Seura. Maataloustiet. Aikakausk.* 22:86-92. 1950. 20 Su7M  
English summary.
- 8258 NATSVIN, A. V. Grape drying in Uzbekistan. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(7):23-25. July 1950. 95.8 V77
- 8259 NELSON, J., and MATELSKY, I. Rays curb bacteria, boost fruit quality. *Food Indus.* 22:1722. Oct. 1950. 389.8 F737  
Germicidal rays.
- 8260 PARLBY, I. Pressure canning of vegetables. *Agr. Bur. N. S. Wales. State Conf. Hawkesbury Agr. Col.* 26:35-36. 1950. 23 Ag82S
- 8261 PEELING of fruit and vegetables. *Food [London]* 19:387-388. Oct.1950. 389.8 F738
- 8262 PEIXOTO, C. F. O preparo de azeitonas em conserva [Preparation of preserved olives]. *Rio Grande do Sul (State). Sec. de Estado dos Negócios da Agr., Indús. e Com. [B.]* 156,31 p. 1949. 9.2 R473
- 8263 PERRY, R. L. Drying characteristics of Calimyrna figs. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 3:14-15. 1949. 93.44 C122P
- 8264 PHAFF, H. J., MRAK, E. M., and PERRY, R. L. Attempts to control microbiological spoilage of freshly harvested figs by ethylene oxide fumigation. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 4:28. 1950. 93.44 C122P
- 8265 PHILLIPS, W. R., EAVES, C. A., and FISHER, O. V. Do apples keep as well as they used to? *Canad. Grower* 73(10):7-8. Oct.16,1950. 80 C16
- 8266 SAINSBURY, G. F. Ground heat in cold storages; bottom layer of stored fruit gains less heat from earth if an air space is between floor and box than if floor is insulated. *Refrig. Engin.* 58:1066-1069,1118, 1120. Nov.1950. 295.9 Am32J
- 8267 STE-MARIE, C. E., and CRISTEL, J. P. R. La ventilation des caveaux à légumes. *Agriculture [Montreal]* 7:177-183. Summer 1950. 7 Ag82
- 8268 SCHAR, E. Die obstlagerung im eigenen betrieb. *Grüne* 78:1023-1025. Sept.15,1950. 17 Sch9
- 8269 SCHÖNBRUNNER, J. Schutz der kartoffel-vorräte durch richtige lagerung. *Pflanzenarzt* 3(3):4-5. Sept.1950. 464.9 P482
- 8270 SHEWELL-COOPER, W. E. Storage of vegetables; most varieties keep best if they are stored late. *Field* 196:427. Sept.9,1950. 10 F45
- 8271 SINGLETON, G. Unusual frozen vegetables. *Quick Frozen Foods* 13(3):48-49. Oct.1950. 389.8 Q4
- 8272 SMOCK, R. M., and NEUBERT, A. M. Apples and apple products. *New York, Intersci.* 1950. 486 p. (Econ. Crops, v. 2) 93.31 Sm7  
Storage changes.
- 8273 STRACHAN, C. C. Apple juice manufacture. *Canad. Food Indus.* 21(10):37. Oct.1950. 286.83 C166
- 8274 THURSBY, I. S. Preserving Florida citrus fruits. *Fla. Agr. Col. Ext. B.* 144,46 p. June 1950. 275.29 F66
- 8275 TUFFIN, H. R. Which are best—clamps or sheds for vegetable storage? *Amateur Gard.* 67(3461):20. Sept.26,1950. 80 Am13
- 8276 U. S. PRODUCTION AND MARKETING ADMIN. How fresh fruit and vegetable distributors can get more out of their materials-handling equipment, by J. F. Herrick, Jr., M. R. Kercho, S. W. Burt, and F. J. Miller. *Washington, 1950.* 100 p. 1.956 M343H83
- 8277 U. S. PRODUCTION AND MARKETING ADMIN. Making fermented cucumber pickles in barrel lots; sweet, sour and dill. *San Francisco?* 1950. 8 p. 1.956 F73M28
- 8278 U. S. SOUTHERN REGIONAL RESEARCH LABORATORY. List of publications with abstracts on brining and pickling of cucumbers and other vegetables, September 1938 to June 1950. *U. S. Bur. Agr. & Indus. Chem. AIC-183, rev.,* 15 p. Aug.1950. 1.932 A2Ag82
- 8279 VOLKSEN, W. Der wirkungsgrad der gebräuchlichen kartoffelschälverfahren. *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 91:7-21. July 1950. 384 Z39
- 8280 WAGNER, J. R. Vegetables and fruits for our fighters; time, distance stringent factors; fresh, frozen, canned compared; advantages of dehydrated items; problems of processing, keeping, and using the foods. *Food Indus.* 22:1683-1685,1825,1827. Oct.1950. 389.8 F737
- 8291 WENZL, H. Verlustlose obstlagerung. *Pflanzenarzt* 3(3):5-7. Sept.1950. 464.9 P482
- 8292 WESTERN Canner and Packer product survey No. 19, frozen citrus concentrates. *West. Canner & Packer* 41(11):13,16-18,21-23,25-26,29,31-32. Oct.1950. 286.83 W522
- 8293 WESTON, E. E. Ohio's tomato ketchup. *Ohio Farmer* 206(7):27. Oct.7,1950. 6 Oh3
- 8294 WIEGAND, E. H., and YANG, H. Y. Commercial preservation of apple juice. *Oreg. Agr. Expt. Sta. B.* 487,4 p. Sept.1950. 100 Or3
- 8295 WITTWER, S. H., and others. The effect of preharvest foliage sprays of certain growth regulators on sprout inhibition and storage quality of carrots and onions. *Plant Physiol.* 25:539-549. Ref. Oct.1950. 450 P692
- R. C. Sharma, L. E. Weller, and H. M. Seif, joint authors.
- 8296 ZIMMERMAN-GRIS, S. Directions for the storage of non-irrigated potatoes. (In Hebrew.) *Hassadeh* 30:553-554. July 1950. 26 H27
- 8297 ZWEEDE, M. A. Les jus de baies. (Sum.) *Jus de Fruits* 10:51. Fourth Q.1950. 389.68 J98  
Text in English, p. 52.  
Manufacture.

## Statistics

- 8298 CHURCHILL, J. R., THOMAS, M. D., and GRAHAM, B. M. Oregon-Washington nut tree survey, 1949. *Oreg. State Col. Ext. B.* 708,20 p. July 1950. 275.29 Or32B
- 8299 FLORIDA. STATE MARKETING BUR. Annual fruit and vegetable report. Production, transportation and marketing analysis, 1949-50 season, by F. H. Scruggs. *Jacksonville, 1950.* 106 p. 280.39 F662A
- 8290 GROWERS ADMINISTRATIVE COMMITTEE. Frame count data and caliper measurements of Florida citrus fruits, 1950-51 season. n.p.1950. 18 p. 252.17 G91
- 8291 HARTARD EBERT, M. Siembras y cosechas de frejoles. *Campesino [Santiago]* 82(8):19. Aug.1950. 9.3 So12  
Statistics for Chile.
- 8292 JENKINS, F. Fewer acres—better price; the California fall celery deal. *West. Grower & Shipper* 21(11):13,17. Oct.1950. 280.38 W52  
Production statistics.
- 8293 LA MONT, T. E. Change in the numbers of fruit trees in Orleans County. *N. Y. Agr. Col. Farm Econ.* 175:4533-4536. July 1950. 280.8 C812
- 8294 U. S. BUR. OF AGRICULTURAL ECONOMICS. Citrus fruits; production, farm disposition, value and utilization of sales, crop seasons 1947-48 to 1949-50, by E. O. Schlotzhauer and A. M. Caron. *Washington, 1950.* 11 p. 1.941 H8C49
- 8295 U. S. PRODUCTION AND MARKETING ADMIN. Irish potatoes shipped to States during fiscal year July 1, 1949 to June 30, 1950. *Washington, 1950.* 1 p. 1.956 A2Ir42



## GRAIN AND GRAIN PRODUCTS

- 8296 ABKHAZAVA, A. A. Sorting out [grain] seeds [by weight] increases their productivity. (In Russian.) *Selek. i Semen.* 17(6):56-59. June 1950. 61.9 Se5
- 8297 ADAMS, D. I. The role of rice ritual in south-east Asia. *Mich. U. Microfilm Abs.* 10(3):111-112. 1950. 241.8 M58
- Rice in the culture and agriculture of the region.
- 8298 ADAMS, G. A. Drying processes for wheat glutens. (Abs.) *Chem. Canada* 2:175,178. Oct.1950. 381 C4236
- 8299 AGAFONOV, E. Proper utilization of grain driers. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):18-19. June 1950. 281.8 K83
- 8300 ALBERTARIO, P. The grain situation. (In Italian.) *Gior. di Agr.* 60:251. Aug.6,1950. 16 It1G Italy.
- 8301 ALBERTARIO, P. The new grain season. (In Italian.) *Gior. di Agr.* 60:323. Oct.15,1950. 16 It1G Italian wheat prices and production.
- 8302 ANDREN, F. Treat the winter grain seed. (In Swedish.) *Lantmannen* 34:637-638. Aug.19,1950. 11 L234
- 8303 ANGLADETTE, A. Le maïs dans les territoires de la France d'outre-mer; situation actuelle et avenir de la production. *Agron. Trop.* 5:406-412. July/Aug.1950. 26 Ag86
- 8304 ANIANSSON, G. Combine threshing with tank system. (In Dutch.) *Lantmannen* 34:668-670. Sept.2, 1950. 11 L234
- Grain storage in bins rather than sacks.
- 8305 ARGENTINA. DIRECCIÓN DE LABORATORIOS. Calidad industrial de los embarques de trigo durante el año agrícola-comercial 1949. Argentina. *Dir. Nac. de Granos y Elevadores. B. Inform.* 11:100-109. June 30, 1950. 286.81 Ar3
- 8306 ARGENTINA. DIRECCIÓN DE LABORATORIOS. Calidad industrial del trigo de la cosecha 1949/50 juzgada en base a los conjuntos de los "standards." Argentina. *Dir. Nac. de Granos y Elevadores. B. Inform.* 11:83-89. June 30, 1950. 286.81 Ar3
- 8307 ARGENTINA. DIRECCIÓN DE LABORATORIOS. Tipificación de la cosecha de trigo 1949/50. Argentina. *Comm. Nac. de Granos y Elevadores. B. Inform.* 11:24-38. Mar.31,1950. 286.81 Ar3
- 8308 ARGENTINA. DIRECCIÓN DE LABORATORIOS. Tipificación de las cosechas de trigo 1945/46-1949/50. Argentina. *Dir. Nac. de Granos y Elevadores. B. Inform.* 11:90-99. June 30, 1950. 286.81 Ar3
- 8309 BAEHR, H. A., BELL, E. J., and CAMP, A. M. Market potentialities for wheat and wheat flour in the Far East. *U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt.* 50,51 p. June 1950. 1.943 F763
- 8310 BARTLING, F. W. The wet-milling process. *Amer. Miller & Processor* 78(10):31-34,72. Oct.1950. 298.8 Am32
- 8311 BATTLES, K. V. Safe storage for soft corn. *Ohio Farmer* 206(7):3,38. Oct.7,1950. 6 Oh3
- 8312 BAUMGARTNER, W. Ist turbine oder wasser-rad richtig? *Müllerei* 3:509-510. Aug.19,1950. 298.8 M91
- 8313 BAUMGARTNER, W. Der müller und die neue ernte. *Müllerei* 3:557-558. Sept.9,1950. 298.8 M91 Germany.
- 8314 BERNARD, P. Du blé au pain, en passant par le grand moulin. *Monit. Agr.* 3(128):2. Sept.24,1950. 14 M744
- 8315 BERNARD, P. Le grain de blé, ce trésor—qu'en a fait le progrès? *Monit. Agr.* 3(126):2. Aug.27, 1950. 14 M744
- Milling in France.
- 8316 BERNARD, P. Simples réflexions sur la valeur boulangère des blés. *Monit. Agr.* 3(129):1-2. Oct.1,1950. 14 M744
- 8317 BLIAKHEROVA, R. M. To improve the accounting and registration of certified [grain] seed plantings. (In Russian.) *Selek. i Semen.* 17(6):5-7. June 1950. 61.9 Se5
- 8318 BROCKINGTON, S. F. Breakfast cereal technology. *Food Technol.* 4:396-400. Oct.1950. 389.8 F7398
- 8319 BUKH, N. L. Vesovoe khoziaistvo punkta zagotzerno [Weight system of the grain procurement post]. *Moskva, Gos. Izd-vo Tekhn. i Ekon. Lit-ry Po Voprosam Zagotovok*, 1950. 79 p. (Biblioteka Rabotnika Elevatorno-skladskogo Khoziaistva) 212 B86
- 8320 CERVI, V. The world rice situation. (In Italian.) *Gior. di Agr.* 60:246. July 30,1950. 16 It1G
- 8321 CHAPMAN, P. W. Elevators bring better markets. *Prog. Farmer, Ga.-Ala.-Fla. Ed.* 65(10):19. Oct.1950. 6 P945G
- 8322 COMISSÃO REGULADORA DOS CEREAIS DO ARQUIPÉLAGO DOS AÇORES. Report and administration accounts for the 1949 season. (In Portuguese.) Azores. *Comis. Regulad. dos Cereais. B.* 6(12):121-134. Second Semes.1950. 15 Az6
- 8323 COX, H. L. Corn as an industrial raw material. (Abs.) *Chem. Canada* 2:169. Oct.1950. 381 C4236
- 8324 DELEAU, J. Revisez les prix du seigle et de l'avoine. *Liberation Paysanne* 7(280):1,3. Sept.21,1950. 14 L61
- France.
- 8325 DITTEMORE, P. L. Grain storage, Texas style. *Nowest. Miller (Milling Prod. Sect.)* 244(2):1a,18a, 20a-21a. Oct.10,1950. 298.8 N81
- 8326 DORNER, H. Über die bedeutung der schleimstoffe. *Getreide, Mehl u. Brot* 4:170-172. Aug.1950. 298.8 G33
- In rye flour.
- 8327 DOROSHCHENKOV, G. Grain deliveries according to plan. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):11-12. June 1950. 281.8 K83
- 8328 DOTY, J. M., and SHERWOOD, R. C. Experiments with ammonium persulfate as a flour maturing agent. *Cereal Chem.* 27:409-414. Sept.1950. 59.8 C33
- 8329 DURHAM, R. K. Summary of panel discussion on flour bleaching technology. *Amer. Assoc. Cereal Chem. Trans.* 8:104-106. Aug.1950. 59.9 Am3T
- 8330 EASTERBROOK, L. F. Britain grows more wheat. *Farmer & Home Companion* 39(34):16. Aug.25, 1950. 24 F227
- 8331 EKSAA, O. Experiences in connection with the treatment of combine threshed and directly threshed grain. (In Norwegian.) *Norsk Landb.* 16:305-308. Aug. 18,1950. 11 N8122
- 8332 FASHUDDIN, M. Bajra in Pakistan. *Karachi Com.* 3(15):9-10. Mar.11,1950. 280.8 K14
- Area and yields.
- 8333 FIFEELD, C. C., WEAVER, R., and HAYES, J. F. Bread loaf volume and protein content of hard red spring wheats. *Cereal Chem.* 27:383-390. Ref. Sept. 1950. 59.8 C33
- 8334 FIFEELD, C. C., and others. Milling and baking experiments with wheat varieties grown in western United States, 1936-45. *U. S. D. A. Tech. B.* 1014,35 p. Sept.1950. 11 N814Te
- C. E. Bode, H. C. Fellows, R. Weaver, J. F. Hayes, A. Christie, B. E. Rothgeb, T. F. Hartsing, and E. Hoffecker, joint authors.
- 8335 GAUSS, W. Grundzüge moderner internationaler getreidepolitik. *Müllerei* 3:564,566. Sept.9,1950. 298.8 M91
- 8336 GEDDES, W. F. The role of enzymes in milling and baking technology. *Food Technol.* 4:441-446. Ref. Nov.1950. 389.8 F7398
- Discusses amylase activity in flours.
- 8337 GEFFROY, H. C. Osiris; le miracle du blé. Paris, 1949. 173 p. 59.26 G27
- 8338 GLABAU, C. A. Baking characteristics of the 1950 southwestern flour. *Bakers Wk.* 147(13):54-57. Sept.25,1950. 389.8 B172
- 8339 GOLDSCHMIDT, H. Nachweis von roggemehl in mehlmischungen und mischbrotten mit hilfe des tri-fructosanverfahrens. *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 91:28-31. July 1950. 384 Z39
- 8340 GÖPP, K. Zur qualitätsbeurteilung der brau-gerste. *Ernährungsdienst* 5(109;112)(sup.:Landwaren-kaufmann 36:2;37:1) Sept.23,30,1950. 389.8 Er62
- 8341 GORGEN, R. E. Advantages of cloth filters for collecting mill dusts. *Nowest. Miller (Milling Prod. Sect.)* 244(7):15a,17a-18a. Nov.14,1950. 298.8 N81
- 8342 GRAIN AND FEED DEALERS NATIONAL ASSOCIATION. Directory, fall 1950. St. Louis, 1950. 76 p. 225 G763
- 8343 GRAIN trade buyers guide, 6, 1950. Chicago, 1950. 87 p. 225 G765
- 8344 GRAY, W. D. Milling's golden era. *Nowest. Miller (Milling Prod. Sect.)* 244(2):7a,9a-10a,13a;(7):8a-10a,12a. Oct.10,Nov.14,1950. 298.8 N81



- 8345 GRAYSON, P. E. The supply-price relationship for corn, 1920-1947. N. Y. Agr. Col. Farm Econ. 175:4531-4532. July 1950. 280.8 C812
- 8346 HALL, T. E., and others. Where and how much cash grain storage for Oklahoma farmers. U. S. Farm Credit Admin. B. 58, 48 p. May 1950. 166.2 B87  
A. L. Larson, H. S. Whitney, and C. H. Meyer, joint authors.  
Oklahoma Agricultural and Mechanical College, cooperating.
- 8347 HAMPEL, G. Eine neue schnellmethode zur rohfaserbestimmung. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 91:1-7. Ref. July 1950. 384 Z39  
In grain products.
- 8348 HAMRING, E. Nassschälverfahren für hafer. Getreide, Mehl u. Brot 4:177-178. Aug. 1950. 298.8 G33
- 8349 HARDY, E. The ancient wheats of Britain. Nowest. Miller 243(13):42. Sept. 26, 1950. 298.8 N81
- 8350 HARRIS, R. H. A comparison of results from preferred and specified methods in Bühler milling. Amer. Assoc. Cereal Chem. Trans. 8:190-196. Aug. 1950. 59.9 Am3T  
Also in Nowest. Miller (Milling Prod. Sect.) 244(7):1a, 19a, 21a-22a. Nov. 14, 1950. 298.8 N81
- 8351 HARRIS, R. H., and SIBBITT, L. D. Experimental milling and baking. N. Dak. Agr. Expt. Sta. Bim. B. 13:9-11. Sept./Oct. 1950. 100 N813B  
Milling and baking quality of wheat.
- 8352 HEUSS, R. Gersten der ernte 1950. Brauwelt 1950:852-854. Oct. 5, 1950. 390.8 B732  
Composition in Germany.
- 8353 HLYNKA, I., and ANDERSON, J. A. Further studies on the reaction of wheat proteins with reducing carbohydrates. (Abs.) Chem. Canada 2:178. Oct. 1950. 381 C4236
- 8354 HOPF, L. Einzelsiebabschaltung mit unterteilter abschaltung der sieblänge. Müllerei 3:525-526. Aug. 26, 1950. 298.8 M91
- 8355 HOPF, L. Mahlverfahren mit weizenvollkornmehlen. Müllerei 3:558. Sept. 9, 1950. 298.8 M91
- 8356 HOPF, L. Veränderung des griessanfalls bei kurzen schrotungen. Müllerei 3:495. Aug. 12, 1950. 298.8 M91
- 8357 HORNE, F. R. Summary of methods used for testing new varieties of malting barley in certain European countries. Inst. Brewing J. 56:302-304. Sept./Oct. 1950. 390.9 In7
- 8358 HUBBARD, J. E., HALL, H. H., and EARLE, F. R. Composition of the component parts of the sorghum kernel. Cereal Chem. 27:415-420. Ref. Sept. 1950. 59.8 C33
- 8359 HUNTER, H. Characteristics of British malting barleys. World Crops 2:407-411. Oct. 1950. 281.8 W892
- 8360 HUNTER, H. Review of the improvement of malting barley in the British Isles. Wallerstein Lab. Commun. 13:201-222. Ref. Sept. 1950. 390.9 W15
- 8361 HUSAIN, S. The storage of malda (white flour) at Karachi. (Abs.) Co-op. & Mktg. Rev. 4:247-248. July 1950. 280.28 C78243
- 8362 JAUMES, L. Le marché du riz. Bouches du Rhône Agr. 23(1034):1. Sept. 15, 1950. 14 B662
- 8363 JORIS. Strohsilo-mit erfolg. Hannoversche Land- u. Forstwirt. Ztg. 103:534. June 3, 1950. 18 H194
- 8364 KENT-JONES, D. W. Scientific advances in milling processes. (Extr.) Mod. Miller & Bakers News 77(21):19. Oct. 14, 1950. 298.8 M72
- 8365 KIRSTE, A. Eine dreitägige fahrt durch Südhannover. Hannoversche Land- u. Forstwirt. Ztg. 103:389-390. Apr. 15, 1950. 18 H194  
Observations on the grain crop.
- 8366 KNIGHT, E. P., and LARMOUR, R. K. Moisture equilibrium of milled products. (Abs.) Chem. Canada 2:175. Oct. 1950. 381 C4236
- 8367 KOEHN, R. C. Report of the Sanitation Methods Committee, 1949-50. Amer. Assoc. Cereal Chem. Trans. 8:186-189. Aug. 1950. 59.9 Am3T  
Flour sampling.
- 8368 KOPLIN, F. Der kontenplan im mühlenbetrieb. Müllerei 3:518-519. Aug. 19, 1950. 298.8 M91
- 8369 KRISTIANSSON, I. Investigations on cellulases in malt and fungi. Svensk Kem. Tidskr. 62:133-135. 1950. 385 Su22
- 8370 KUHN, C. Die bestimmung der feuchtigkeit in mahlprodukten. Müllerei 3:541-544. Sept. 2, 1950. 298.8 M91
- 8371 KUHNAU, J. Über den aminosäuregehalt der getreidearten und der sojabohne. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 90:434-441. Ref. June 1950. 384 Z39
- 8372 LAIDLAW, H. C. The buyer of malting barley. Westernnews 12(11):19-21. Sept. 1950. 389.78 W522
- 8373 LALAND, S., OVEREND, W. G., and WEBB, M. The isolation of deoxyribonucleic acids from rye and wheat. Acta Chem. Scand. 4:885-891. Ref. 1950. 385 Ac82
- 8374 LAVEZZINI, V. The grain season. (In Italian.) Avvenire Agr. 58:177-179. Aug. 1950. 16 Av9  
Italy.
- 8375 LEASE, E. J., FARRAR, M. D., and JOHNSON, L. W. Producing better corn meal & grits in South Carolina. S. C. Agr. Expt. Sta. C. 78, 8 p. Oct. 1950. 100 So8
- 8376 LENGGERER, E. Die kalkulation des müllers. Müllerei 3:502-504. Aug. 12, 1950. 298.8 M91
- 8377 LIENER, I. E. The effect of heat processing and storage on the nutritive value of proteins of importance in the cereal industry. Amer. Assoc. Cereal Chem. Trans. 8:162-185. Ref. Aug. 1950. 59.9 Am3T
- 8378 LOCH, R. Was ist selbstentzündung? Müllerei 3:512-513. Aug. 19, 1950. 298.8 M91
- 8379 LOMAS, J. Developments in screening. Internatl. Chem. Engin. 31:399-402, 408. Sept. 1950. 382 In8
- 8380 LOOMBE, C. A. World cereals today. Chem. & Indus. 1950:702-707. Oct. 21, 1950. 382 M31C
- 8381 LUXENBERG, B. Brotpolitik; brotprobleme, Deutschlands schicksalsfragen. Ed. 3. Oldenburg, Oldenburger Verlagshaus, 1949. 427 p. 389 L972  
Includes grain and agricultural policy throughout history in various countries.
- 8382 MCDOUGALL, J. L. Killing of a Prairie myth. Grain & Feed Rev. 40(2):18. Oct. 1950. 280.28 C78  
On the Winnipeg Grain Exchange.
- 8383 MACEACHRON, P. A. Grain marketing is an effective part of G. L. F. service for patrons. G. L. F. Week. Serv. Sched. 15(14):1-2. Oct. 2, 1950. 280.28 G113W
- 8384 MALETURE, G. Note sur les produits utilisés pour le "garnissage" des meules et cônes de rizerie. French Indochina. Off. Indochin. du Riz. Arch. 27, 22 p. Ref. 1950. 59.9 In292A
- 8385 MANCINI, M. Control of corn prices. (In Italian.) Agr. delle Venezie 4:177-178. June/July 1950. 16 Ag826
- 8386 MARBACH, W. Warum der roggenpreis nicht hätte weiter gesenkt werden sollen. Grüne 78:966-968. Sept. 1, 1950. 17 Sch9
- 8387 MARNETT, L. F., and SELMAN, R. W. Studies of the effects of polyoxyethylene monostearate on flour amylase activity. Cereal Chem. 27:349-358. Ref. Sept. 1950. 59.8 C33
- 8388 MAUGHAN, G. H. Corn. Farm J. 74(10):60. Oct. 1950. 6 F2212
- 8389 MENDER, A. Zur bestimmung von vitamin E in mahlprodukten. Getreide, Mehl u. Brot 4:172-174. Aug. 1950. 298.8 G33
- 8390 METIVIER, S. Le blé en 1951. Défense Agr. de la Beauce et du Perche 47:364-365. Sept. 30, 1950. 14 D36  
France.
- 8391 MILAN. ASSOCIAZIONE GRANARIA. Annuario 1950 [1950 annual]. Milano, 1950. 96 p. 286.3599 M582
- 8392 MILANESI, U. The electric motor in the mill. (In Italian.) Italia e i Cereali 5:258, 263. June 1950. 59.8 It1
- 8393 MILNER, M., and JOHNSON, J. A. The influence of drying temperature and dry ice treatment on the quality of immature wheat. Cereal Chem. 27:358-366. Sept. 1950. 59.8 C33
- 8394 MONFORE, K. E. The wheat sanitation program. (Excerpts.) Grain & Feed J. Consolidated 105(6):16. Sept. 27, 1950. 298.8 G762  
Rat and mouse contamination and insect infestation.
- 8395 MONTANARI, V. Technical and economic results of the 1949-50 grain season. (In Italian.) Agr. delle Venezie 4:309-362. Sept. 1950. 16 Ag826  
Wheat.



- 9396 MORRIS, N. J., SWIFT, C. E., and DOLLEAR, F. G. Rice bran oil. VII. The "fines" fraction of rice bran. *Rice J.* 53(9):6-7, 10. Sept. 1950. 59.8 R36
- 9397 NATIONAL JOINT INDUSTRIAL COUNCIL FOR THE FLOUR MILLING INDUSTRY. Thirty-first annual report 1949-50. London, 1950. 55 p. 298.8 N21
- 9398 NEW YORK CERTIFIED SEED GROWERS' COOPERATIVE. Preliminary list of seed growers of recommended varieties of winter wheat and winter barley, August 8, 1950. Ithaca, 1950. 4 p. 225 N4892
- 9399 NORDIN, P., SPENCER, E. Y., and SPINKS, J. W. T. Determination of sulfhydryl groups in flour by means of o-iodosobenzoate and radioactive iodine. (Abs.) *Chem. Canada* 2:178. Oct. 1950. 381 C4236
- 9400 NOTTLE, J. L. Wheat deliveries in relation to the wheat buyer. *So. Austral. Dept. Agr. J.* 53:566-567. July 1950. 23 So84
- Quality requirements of the Australian Wheat Board.
- 9401 O'BRIEN, H. R. Safe storage of high-moisture corn. *Country Gent.* 120(10):38, 110. Oct. 1950. 6 C833
- 9402 OLSSON, N. Combine threshing, farm storage and drying of grain. (In Norwegian.) *Norsk Landbr.* 16:334. Sept. 1, 1950. 11 N8122
- 9403 PAGANI, L. Opportunity given to farmers for better price protection of grain by turning over their product to public granaries in unlimited quantities. (In Italian.) *Agr. delle Venezie* 4:167-174. June/July 1950. 16 Ag826
- 9404 PAOLETTI, V. Trifles. (In Italian.) *Agri-coltore [Perugia]* 7(17):1. Sept. 1/15, 1950. 281.8 Ag822
- Compulsory grain deliveries in Italy.
- 9405 PEREIRA, J. M. Let us do what the settlers did. (In Portuguese.) *Seleç. Agr.* 5(52):11-12. Aug. 1950. 9.2 Se4
- Brazilian wheat policy.
- 9406 PEREZ, G. R. El maíz y su utilidad en las industrias. *Agr. Venezol.* 15(142):42-45. May 1950. 9.95 Ag8
- 9407 PINGALE, S. V. Storage of grains in Bombay State. *Poona Agr. Col. Mag.* 41:124-126. Aug. 1950. 22 P79
- 9408 PITMAN, W. A. Palletized handling—how it cuts work-hours by 50%. *Amer. Miller & Processor* 78(9):27-28. Sept. 1950. 298.8 Am32
- Flour.
- 9409 PLATE, R. Entwicklungstendenzen auf dem internationalen weizenmarkt. *Getreide, Mehl u. Brot* 4:175-176. Aug. 1950. 298.8 G33
- 9410 POST, R. E. The outlook for wheat in 1951-52. *Washington, U. S. Bur. Agr. Econ.*, 1950. 2 p. 1.941 A2P845
- Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.
- 9411 PTITSYN, S. D. Permissible heating of wheat kernels. (In Russian.) *Vsesoiuzn. Akad. Sel'skikh. Nauk im. V. I. Lenina. Dok.* 15(8):45-48. 1950. 20 Ak1
- Temperature for drying, treatment, etc.
- 9412 PULKKI, L. H. Role of electrification in sifting. *Nowest. Miller (Milling Prod. Sect.)* 244(2):3a-6a. Oct. 10, 1950. 298.8 N81
- 9413 RAGSDALE, J. M. Wheat in Missouri. *Mo. Agr. Col. Ext. Farm Outlook* 1950:1-4. July 1950. 275.29 M69Ec
- 9414 REBIFFE, H. La collecte du blé; les attaques contre les coopératives. *Défense Agr. de la Beauce et du Perche* 47(36):353-354. Sept. 23, 1950. 14 D36
- 9415 REISSIG. Kennzeichnung der backmehle. *Getreide, Mehl u. Brot* 4:182-183. Aug. 1950. 298.8 G33
- 9416 RITTER, K. Neuere anschauungen über ver-teilung, menge und art der enzyme im getreidekorn. *Getreide, Mehl u. Brot* 4:165-170. Ref. Aug. 1950. 298.8 G33
- 9417 RIVES, E. A. Valores normales de rendimien-to de trigo, de proporción de superficie cosechable y de aptitud cuantitativa de producción, en la Republica Argen-tina. *Argentina. Dir. de Inform. P. Misc.* 332, 45 p. 1950. 9 P943
- Statistical.
- 9418 ROBINSON, C. G. The experience gained in our past three wars should help grain industry now. *Grain & Feed J. Consolidated* 105(7):10-11, 13. (Excerpts.) Oct. 11, 1950. 298.8 G762
- 9419 ROHLF, J. A. Let's take some of the risk out of wheat! That's the aim of the new National Association of Wheat Growers. *Farm J.* 74(11):39, 90-90A. Nov. 1950. 6 F2212
- 9420 ROUSSIAUX, P. Les prix de l'avoine, de l'orge et du seigle restent insuffisants. *J. de la France Agr.* 6:1085, 1087. Sept. 1/7, 1950. 14 J829
- 9421 ROWE, J. Z. Corn and sorghum prices in-fluenced by storeability. *N. Mex. Agr. Col. Ext. News* 30(9):3. Sept. 1950. 275.29 N463Ex
- 9422 RUPP, R. G. Soft corn again? *Farmer [St. Paul]*, Gen. Ed. 68(18):1, 26-27, 35. Sept. 16, 1950. 6 F2211
- Chiefly drying.
- 9423 SANDEGREN, E., and KLANG, N. On barley amylase and proteinase. *Inst. Brewing J.* 56:313-318. Ref. Sept./Oct. 1950. 390.9 In7
- 9424 SELMAN, R. W. The laboratory examination of flours from the standpoint of the commercial baker. *Amer. Assoc. Cereal Chem. Trans.* 8:122-124. Aug. 1950. 59.9 Am3T
- 9425 SELTER, G. L. Corn has figured in American history. *Farm & Gard. [Watertown]* 1950:2. Oct. 7, 1950. 6 F2
- 9426 SERANDOUR, P. La position des producteurs de blé et le malaise paysan. *Monit. Agr.* 3(126):1, 3. Aug. 27, 1950. 14 M744
- France.
- 9427 SILVELA TORDESILLAS, F. Las harinas paní-ficables de extracción legal. *Asoc. Nac. de Ingen. Agrón.* B. Ofic. (ser. 2):141-143. Ref. Mar. 1950. 58.9 As5
- 9428 SKIVER, C. E. You can count on better crops when your small grain seeds are properly serviced. *Flying Plowman* 4(8):4-5. Sept./Oct. 1950. 58.8 F67
- 9429 SOCIEDAD GANADERA MURCIELAGO. In-forme presentado al Consejo Nacional de Producción. *Costa Rica. Cons. Nac. de Prod. Prod. Nac.* 1950(3):10-26. June 1950. 281.9 C82
- Results of a program of corn and rice production.
- 9430 SODER, K. E. Your wheat reputation is im-portant. *Sowest. Crop & Stock* 4(9):13, 16, 66. Sept. 1950. 6 So8942
- Quality of Texas wheat.
- 9431 SPINDLER, F. Einfluss der klebermenge auf die testzahl im zusammenhang mit der klebergüte. *Ge-treide, Mehl u. Brot* 4:180-182. Aug. 1950. 298.8 G33
- In wheat.
- 9432 SWAMINATHAN, M., and others. Interference by certain substances present in ragi (Eleusine coracana) in the determination of thiamine by the thiochrome method. *J. Sci. & Indus. Res.* 9B:210-212. Aug. 1950. 475 J82
- S. B. Dhungat, H. B. N. Murthy, and V. Subrahmanyam, joint authors.
- 9433 THEIMER, O. F. Über staubexplosionen in mühlen und getreidesilos. *Getreide, Mehl u. Brot* 4:178-180. Aug. 1950. 298.8 G33
- 9434 THOMSON, J. An important machine. *Westralian Farmers Co-op Gaz.* 19:73, 75-76. Aug. 1950. 280.28 W522
- Wheat handling equipment.
- 9435 THOMSON, R. M. Some malting systems in Scandinavia. *Inst. Brewing J.* 56:305-312. Sept./Oct. 1950. 390.9 In7
- 9436 TROJANI, G. In reply to "The Grain Market." (In Italian.) *Italia e i Cereali* 5:242-243. June 1950. 59.8 It1
- Reply to an article by Prof. De Marzi.
- 9437 U. S. BUR. OF AGRICULTURAL ECONOMICS. Rice preferences among household consumers. *U. S. D. A. Agr. Inform. B.* 15, 101 p. July 1950. 1 Ag84Ab
- 9438 U. S. BUR. OF MINES. Recent studies on the explosibility of cornstarch, by I. Hartmann, A. R. Cooper, and M. Jacobson. 9 p. (Rpt. Invest, 4725) 156.62 R24
- 9439 U. S. PRODUCTION AND MARKETING ADMIN. Handbook for warehousemen operating under uniform grain storage agreement. Atlanta, 1950. 29 p. 1.956 A2H19
- 9440 U. S. PRODUCTION AND MARKETING ADMIN. Handbook of official grain standards of the United States. Rev. Washington, 1950. 102 p. 1 M346Ha
- 9441 U. S. PRODUCTION AND MARKETING ADMIN. Measuring bread-baking quality of wheat. Washington, 1950? 26 p. 1.956 G76M463



8442 U. S. PRODUCTION AND MARKETING ADMIN. Rice, Rexoro, extra fancy: average wholesale price per 100 pounds, milled, New Orleans, 1933-34 to date. Washington, 1950. 2 p. 1.956 G76R363

8443 VOGELBUSCH, W. Die destillation bei der spirituszerzeugung, insbesondere bei der verarbeitung alkoholarmen maischen. Versuchsanst. f. das Gärungs-gewerbe. Mitt. 1950:71-82. Ref. May/June 1950. 390.08 V67

8444 WARD, H. H. The grading of Manitoba wheats. Milling 115:332,334. Sept.30,1950. 298.8 M622

8445 WHINERY, J. S. Adaptation of a sponge dough "pup" procedure using a commercial formula for laboratory testing of flour. Amer. Assoc. Cereal Chem. Trans. 8:159-161. Aug.1950. 59.9 Am3T

8446 WILD, P. Weichweizenvorbereitung und beeinflussung der backfähigkeit. Müllerei 3:493-494. Aug.12, 1950. 298.8 M91

8447 WILLIAMS, T. The acreage of wheat. Essex Farmers' J. 29(6):17,19. Aug.1950. 10 Es72  
Wheat acreage and production goals in Great Britain.

8448 WOSTMANN, B. The cystine content of wheat flour in relation to dough properties. Cereal Chem. 27: 391-397. Ref. Sept.1950. 59.8 C33

8449 WRIGHT, C. W. Loading of grain at country elevators needs more attention. Oreg. Dept. Agr. Agr. B. 167:43-44. Sept.1950. 2 Or3

#### HONEY AND BEESWAX

8450 ANWYL, J. H. Taste and texture. Welsh Bee J. 5:118-120. (To be cont.) Aug.1950. 424.8 W462  
Honey.

8451 BUTTIG, M. Giftiger honig. Deut. Bienenztg. 5:149. Aug.1,1950. 424.8 D488

8452 FIX, W. J., and PALMER-JONES, T. Control of fermentation in honey by indirect heating and drying. New Zeal. J. Sci. & Technol. A, Agr. Res. Sect. 31:21-31. Ref. June 1949. 514 N48A

8453 GILLESE, J. P. Alberta—honey-bee land. Family Herald & Wk. Star 81(38):3,14. Sept.21,1950. 7 F21

Chiefly the honey industry.

8454 GOUGET, C. W. Attractive profits sell more honey. Amer. Bee J. 90:490-491. Nov.1950. 424.8 Am3

8455 HERTZOG, M. Honigabsatz. Eier-, Wild-, Geflügel- u. Honig-Markt 2(35):1-2;(36):6. (Cont.) Aug.31,-Sept.7,1950. 280.38 E13  
Germany.

8456 IELPO, J. B. Que se entiende por mieles de calidad. Uruguay. Min. de Ganad. y Agr. B. Inform. 330: 11. July 20,1950. 9.9 G15B

8457 JOHNSON, L. E., WRIGHT, A., and CHAPMAN, R. A. Miel et miellat. Abeille et l'Erable (ser.2)19:107-108. Aug./Sept.1950. 424.8 Ab32  
Analysis and composition.

8458 MATTHES, W. F. Do we value our own honey? Amer. Bee J. 90:443. Oct.1950. 424.8 Am3  
Utilization of surplus by beekeepers and their families.

8459 NEWALD, E. Wie gewinne und pflege ich meinen honig? Niederöstr. Imker 1:171-175. July 1950. 424.8 N55

8460 PAOLO, M. Agricultural situation: honey. (In Italian.) Colt. e Glor. Vinic. Ital. 96:206-207. July 31,1950. 16 C72  
The Italian industry.

8461 PARKS, L. W. How far can you throw a dollar? Gleanings Bee Cult. 78:678. Nov.1950. 424.8 G47  
American Honey Institute.

8462 ROUSSY, L. Notice sur un échantillon de miel des Alpes. Gaz. Apic. 51:175-176. Aug.1950. 424.8 G25

8463 SANDRUD, L. Extraction and straining of heather honey. (In Norwegian.) Birøkteren 66:109-110. Aug.1950. 424.8 B53

8464 SCHLEV, G. Por qué fermentan las mieles? Uruguay. Min. de Ganad. y Agr. B. Inform. 325:5;326:11. June 15-22,1950. 9.9 G15B

8465 •STUDIER, H. Our honey stand pays off. Mod. Beekeeping 35,i.e.34:255-256,279. Aug.1950. 424.8 B397

8466 U. S. BUR. OF AGRICULTURAL ECONOMICS. Montana honey production, 1950. Helena, 1950. 2 p. 1.941 H8H757

8467 WEBB, MRS. E. R. Hi, ho, lets go to the fair. Mod. Beekeeping 35,i.e.34:268-269,276. Aug.1950. 424.8 B397

Exhibiting honey.

8468 WRIGHT, P. H. New developments in marketing in Saskatchewan. Amer. Bee J. 90:441-442. Oct. 1950. 424.8 Am3

Beekeepers required to market honey through cooperative.

8469 WURDEMANN, A., and AUSLANDER, J. Honey. Gourmet 10(10):14-15,38,40-47. Oct.1950. 389.8 G74

History and recipes.

8470 ZIEGLER, R. J. Beginner's department. Selling honey. Mod. Beekeeping 35,i.e.34:264-267,276-277. Aug.1950. 424.8 B397

#### LIVESTOCK AND LIVESTOCK PRODUCTS

8471 ABEL, H. Fewer animals move east to market because of increase in western slaughter. Farm & Home Sci. [Utah Sta.] 11:50-51. Sept.1950. 100 UtiF

8472 ALBERTI, Zur kleintierzucht in Weser-Ems. Landwirtsbl. Weser-Ems 36(sup.):1-3. Sept.6,1950. 18 L2345

8473 AMERICAN MEAT INSTITUTE. Proceedings 45th annual meeting, Palmer House, Chicago, September 29, 30 and October 1, 2, 3. Meat 33(5):150-212. Oct. 1950. 286.85 M464

Also in National Provisioner 123(16):102-266. Oct.17, 1950. 286.85 N21

8474 BARTON, T. H. Livestock in Arkansas. Ark. Farmer 52(10):18-19. Oct.1950. 6 Ar42

8475 BEAR, L. K. Sheep are hitting the comeback trail. Natl. Live Stock Prod. 29:12. Oct.1950. 280.38 N21

8476 BERGE, S. Sheep and agriculture in Great Britain. (In Norwegian.) Norsk Landbr. 16:382-386. Oct.13,1950. 11 N8122

8477 BORISS, K. Zuviel kühe? Deut. Landwirt. Presse 73(17):7;(18):4-5. Aug.5-19,1950. 18 D482  
Second installment has title Milch—besser verkauft.

8478 BRADY, D. E. National ham show. Locker Mangt. 4(11):40-41. Nov.1950. 389.8 L79

8479 BRANDOW, G. E. Beef cattle numbers and prices high. Pa. Farm Econ. 39:7-8. July 1950. 275.29 P382Pf

8480 BREIMYER, H. F. The outlook for meat animals in 1951. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2B74

Statement at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.

8481 THE BRITISH rough hide leather industry. Leather World 42:632,634,700,702. (Concl.) Sept.7,14, 1950. 303.8 L482

8482 BURMEISTER, C. A. The beef cattle situation and outlook for mid-1950. Cattleman 37(5):30,90,92,94. Oct.1950. 49 C29

8483 BURMEISTER, C. A. New hog program is necessary to meet switch in pork demand. West. Livestock J. 28(50):3. Aug.24,1950. 6 F2278

8484 CAIRE, J. The sheep industry of the Twelfth Federal Reserve District. Fed. Reserve Bank San Francisco. Mon. Rev. 1950(sup.),19 p. Sept.1950. 284.8 F31S

8485 CALLOW, E. H. Meat, a brief review. Brit. Food Mfg. Indus. Res. Assoc. Sci. & Tech. Surveys 12, 15 p. Ref. Dec.1949. 330.9 B773

8486 CARMICHAEL, J. S. W. A.—land of the golden fleece. Brit. Fur Trade 32:362-363. Sept.1950. 412.628 B77

Karakul industry in South-West Africa.

8487 CLAASSENS, C. C. Less livestock pays better. (In Afrikaans.) Landman [Monthly] 34(8):7,9. Aug.1950. 24 L233

8488 CONFERENCE ON RESEARCH, UNIVERSITY OF CHICAGO, 1949. Proceedings, conducted under sponsorship of the Council on Research of the American Meat Institute, at the University of Chicago, March 24 and 25, 1949. Chicago, 1949. 117 p. 50.9 C762

8489 CONWAY, H. M. Economic outlook favoring live stock production plans. Natl. Live Stock Prod. 29: 6,11. Oct.1950. 280.38 N21



- 8490 CONWAY, H. M. A maximum supply of meat is necessary for war demand. *Natl. Live Stock Prod.* 28(11): 6. Sept.1950. 280.38 N21
- 8491 CRICKMAN, C. W. Management of livestock production in the United States. Washington, U. S. Bur. Agr. Econ., 1950. 7 p. 1.941 L6C86  
Paper presented to informal conference with French livestock producers, Sept. 29, 1950, Washington, D. C.
- 8492 EFREMOV, S. The Three-Year Plan for development of public livestock is being fulfilled. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):30-31. June 1950. 281.8 K83  
Kollektivist Collective Farm in Molotov Region.
- 8493 EGGERT, R. J. Outlook for sausage and meat supplies. *Meat* 33(5):176. Oct.1950. 286.95 M464
- 8494 FARIA E MAIA, V. M. Livestock in the Ponta Delgada District. (In Portuguese.) *Azores. Comis. Regulad. dos Cereais*. B. 6(12):51-71. (To be cont.) Second Semes.1950. 15 Az6
- 8495 FINCH, F. H. A favoured cattle region. *Rev. River Plate* 108(3052):26. Sept.29,1950. 286.8 R32  
Corrientes, Argentina.
- 8496 FOREST, J. Récupération des peaux de porc. *Porc* 21(6):25-26. (To be cont.) July/Aug.1950. 46.8 P822.
- 8497 FRANCIS, J. H. Adjustment, preparation—these are the key words for the future. *Black Fox Mag. & Mod. Mink Breeder* 34(5):23,57-58. Sept.1950. 410 B56
- 8498 FRENCH, H. W. Outlook is bullish on fed light steers; weaker on heavier ones. *Amer. Cattle Prod.* 32(6):14,16,43. Nov.1950. 49 P94
- 8499 GOL'DE, I. U. V., ed. Za rasśvet sośsialisticheskogo zhivotnovodstva; annotirovannyi ukazatel' literatury k Trekhletnemu planu [Toward a flourishing socialist livestock industry; annotated bibliography for the Three-Year Plan]. Moskva, Gos. Izd-vo Kul'turno-Prosvetitel'-noi Lit-ry, 1949. 76 p. 241 G56
- 8500 GUSLER, G. Now's the time to build up flocks. *Ohio Farmer* 206(5):24-25. Sept.2, 1950. 6 Oh3  
Sheep and wool situation.  
Similar title in *Farmer* [St. Paul], Gen. Ed. 68(17):7,38-39. Sept.2,1950. 6 F2211
- 8501 HATZFELD, G. H. Abundance of meat. (In Portuguese.) *Chacaras e Quintais* 82:330-331. Sept.15, 1950. 9.2 C34  
Meat situation in Brazil and rabbit raising as a means of supplementing the supply.
- 8502 HOFFMANN, E. Über die abgrenzung der deutschen nutzviehhaltung; annotated bibliography of livestock economy after the 2. world war. *Kühn-Arch.* 62:311-340. Ref. 1949. 105.8 H15Ku
- 8503 HOOD, N. E. Outlook for coming year. *Amer. Natl. Fur & Mkt. J.* 29(3):23. Oct.1950. 412.629 Am3M
- 8504 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Livestock and feed outlook. Ill. Agr. Col. Ext. C. 668, 6 p.-folder. Sept.1950. 275.29 IL62C
- 8505 INTER-REGIONAL LIVESTOCK PRODUCTION AND MARKETING CONFERENCE. Report of conference, College Park and Beltsville, Maryland, June 12-15, 1950. Washington, U. S. Ext. Serv., 1950. 27 p. 1.913 C3L752
- 8506 KENNEY, C. H. By-product bonanza. *Canad. Food Indus.* 21(10):27,29. Oct.1950. 286.83 C166  
By-products in the meat packing industry.
- 8507 KOSTIUCHENKO, V. Collective farms of Zhitomir Region are fulfilling the Three-Year Plan [for livestock development] on time. (In Russian.) *Sofśialist. Zhivotn.* 12(4):66-68. Apr.1950. 49 Sq71
- 8508 KRAYBILL, H. R. Research activities of the American Meat Institute Foundation. *Conf. Res. Proc.* 1949:110-117. 50.9 C762
- 8509 KRINGS, E. German fur farming in distress. (In Swedish.) *Våra Pälstdjur* 21:237-239. Sept.15,1950. 410 V42
- 8510 KUNKLE, L. E. Required meat courses for students majoring in food technology, animal husbandry and hotel-restaurant management. *Reciprocal Meat Conf. Proc.* 2:12-16. 1949. 50.9 R24  
Includes discussion.
- 8511 LINDSTRÖM, J. R. The economy of the fur industry. (In Norwegian.) *Norsk. Pelsdyrbll.* 24:264-267, 270-273. Aug.20,1950. 412.628 N812
- 8512 LITTON, G. W. The sheep business is booming. *Breeder-Stockman* 12(5):81. Oct.1950. 49 V81
- 8513 LOWER, E. S. La lanoline (cire de laine). *Indus. de la Parfumerie* 5:354-358,407-410. (Cont.) Ref. Aug.-Sept.1950. 308.8 In2
- 8514 LOWIT, J. C. Are we losing ground, commercially? *Small Stock Mag.* 34(10):3-4. Oct.1950. 48.8 P442  
Rabbit industry.
- 8515 LUBRANO, U. Animal skins in agriculture and industry. (In Italian.) *Italy. Staz. Sper. per l'Indus. delle Pelli e delle Materie Conclanti.* B. Uffic. 26:114-122. Aug.1950. 303.8 It1  
Italy.
- 8516 LUNDING, F. J. What is the meat business? *Meat* 33(5):196-198. Oct.1950. 286.85 M464
- 8517 MEJÍA, J. M. La ganadería. *U. de Antioquia* 25:201-224. May/July 1950. 110 Un3
- 8518 MERCIER, N. L'élevage du porc dans le Comte de Nicolet. *Terre de Chez Nous* 22(32):8. Oct.4, 1950. 7 T27  
Canada.
- 8519 MITCHELL, M. P. A look at the cattle feeding situation. *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1950:3-4,8. Sept.20,1950. 275.29 In2Em
- 8520 MITCHELL, P. Many factors affect beef cattle prospects. *Natl. Live Stock Prod.* 28(11):23,28. Sept. 1950. 280.38 N21
- 8521 NATIONAL BOARD OF FUR FARM ORGANIZATIONS. Reports, 1950. *Black Fox Mag. & Mod. Mink Breeder* 34(5):15-21,24-27,32,34,36,38,40-49,58. Sept. 1950. 410 B56  
Eight reports also in *Natl. Fur News* 22(9):19-23,34-43. Oct.1950. 412.628 R59
- 8522 NES, A. R. VAN. The cattle industry in the Netherlands. (In Dutch.) *Econ.-Statis. Ber.* 35:719-721. Sept.6,1950. 280.8 Ec722
- 8523 NEWELL, P. F. Livestock production—the South's great opportunity. *Gulf Coast Cattleman* 16(9):7-8. Nov.1950. 43.8 G95
- 8524 OLSEN, L. Future looks bright for meat producers. *U & I Cult.* 10(2):36-37. Aug.1950. 66.8 U12
- 8525 PARVIN, F. W. Livestock and field outlook. *Fla. Grower* 58(11):26-27. Nov.1950. 80 F6622
- 8526 PICAZO, E., JR. Brillante porvenir tiene en México la cría de cerdos. *Tierra [Mexico]* 5:503-504. Sept.1950. 8 T445
- 8527 POPKEN. Sehr starker schweinebestand in Weser-Ems. *Landwirtsch. Weser-Ems* 36:731-732. Sept.6,1950. 18 L2345
- 8528 RICCIARELLI, U. Livestock revival. (In Italian.) *Agr. Ferrarese* 54:114-115. May 31,1950. 16 Ag87
- 8529 RICHARDS, R. E. The sheep situation. *Wis. Coop. Wool Growers News* 16(2):3. Sept.1950. 280.28 W882
- 8530 RISSO, A. J. Situación y perspectivas del comercio de carnes. *Bolsa de Com., Montevideo. Rev.* 52(7):10-11. July 1950. 284.38 M76
- 8531 ROSE, A. L. Beef production in the Northern Territory of Australia. *Meat Trades' J.* 139:1223-1225. Sept.14,1950. 50.8 M46
- 8532 ROSTOVTSEV, N. F. Heavy raw hide. (In Russian.) *Sovet. Zootekh.* 5(5):20-28. May 1950. 49 So822
- 8533 RUSS, J., JR. Re-dedication to service and protection of sheep and wool industry with call for individual courage and determination. *Calif. Wool Grower* 26(45):6-7. Nov.7,1950. 45.8 C12
- 8534 U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle feeding situation, November 1, 1950. Washington, 1950. 2 p. 1.9 Ec742Cat
- 8535 U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle on feed—Illinois, Iowa, Nebraska, October 1, 1950. Washington, 1950. 2 p. 1.9 Ec742Caf
- 8536 U. S. BUR. OF AGRICULTURAL ECONOMICS. Lamb feeding situation, October 1, 1950. Washington, 1950. 2 p. 1.9 Ec742Lam
- 8537 U. S. PRODUCTION AND MARKETING ADMIN. List of stockyards posted under the provisions of the Packers and Stockyards Act. Washington, 1950. 31 p. 1.9 Ag89L
- 8538 U. S. WESTERN LIVESTOCK MARKETING RESEARCH TECHNICAL COMMITTEE. Shifts in the trade in western slaughter livestock. U. S. D. A. Agr. Inform. B. 14,67 p. Ref. 1950. 1 Ag84Ab



- 8539 VOORHIES, E. C., and RUDD, R. W. Sheep and wool situation in California, 1950. Calif. Agr. Expt. Sta. C. 399,50 p. Oct.1950. 100 C12S
- 8540 WADLOW, T. J. Fertility on four feet. Farmers Wk. [London] 33(10):61. Sept.8,1950. 10 F2226  
The sheep industry in Great Britain and the value of sheep manure.
- 8541 WASSERHAL-ZUCCARI, E. VON. Standard mink. (In Swedish.) Vara Palsdjur 9:217-219. Aug.15, 1950. 410 V42
- 8542 WHITE, V. Beef production in Scandinavia. Pacific Stockman 16(10):14. Oct.1950. 286.85 W52
- 8543 WILSON, E. F. Can we feed our people? The livestock and meat industry is in a favorable position to meet any emergency. Chester White J. 40(10):4,37-38. Oct.1950. 46.8 W582  
Also in Livestock Wk. 4(43):14,46-47. Aug.31,1950. 49 L753
- 8544 WINFIELD, L. G. Rabbits will ease meat rationing. Amer. Rabbit J. 20:131. Sept.1950. 40.28 Am3

#### Analysis and Composition

- 8545 ALVI, F. R. M., and BUTT, S. D. Insoluble volatile acid (Polenske) value of buffalo butterfat. (Abs.) Co-op. & Mktg. Rev. 4:252. July 1950. 280.28 C78243
- 8546 ANUSZ, L. Contribution to the study of domestic leathers. (In Portuguese.) Rev. de Quím. Indus. 19(218):16-18. June 1950. 385 R324
- 8547 HYND, C. E. Report on horse meat in ground meat. Assoc. Off. Agr. Chem. J. 33:752-753. Aug.15, 1950. 381 As7
- 8548 LINDNER, A. F. Schwankungen des fremdwassergehaltes bei wüsten gleicher herstellung; kritische bemerkungen zu der arbeit gleichen titels von R. Grau. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 91:24-27. July 1950. 384 Z39  
Reply by R. Grau, p. 27-28.
- 8549 MEHURIN, R. M. Report on meat and meat products. Assoc. Off. Agr. Chem. J. 33:749-751. Aug.15,1950. 381 As7
- 8550 MUSGRAVE, A. J., and MITTON, R. G. A study of the mould growth on a catechol-tanned leather and of the associated changes in physical properties. Soc. Leather Trades' Chem. J. 34:324-343. Sept.1950. 303.9 So12
- 8551 PARNAS, J., and DĄBROWSKI, T. Infection with erysipelotheix rhusiopathiae as a meat hygiene problem. (In Polish.) Med. Weter. 6:343-344. June 1950. 41.8 M463  
English summary.
- 8552 PUSCH, I. Vergleichende untersuchungen zur bestimmung der wasserigkeit und des ausblutungsgrades in der fleischuntersuchung. Lebensmitteltierarzt 1:82-85 (To be cont.) June 1950. 41.8 L49
- 8553 RASCIO, V. J. D. El encogimiento hidrotérmico en los cueros para suela y su relación con la composición química. La Plata. U. Nac. Facul. de Cien. Quím. Rev. (1947)22:267-277. Ref. 1949. 385 L31  
Summary of a thesis.
- 8554 SPIERS, C. H. Note on the volumetric determination of magnesium sulphate in leather. Soc. Leather Trades' Chem. J. 34:289-290. Aug.1950. 303.9 So12
- 8555 SUGIYAMA, H., and DACK, G. M. Some studies on the heat resistance of spores of clostridium botulinum. Conf. Res. Proc. 1949:74-79. Ref. 50.9 C762
- 8556 SULZBACHER, W. L. Survival of microorganisms in frozen meat. Food Technol. 4:386-390. Ref. Oct.1950. 389.8 F7398
- 8557 VERHOEVEN, W. On a sporeforming bacterium causing the swelling of cans containing cured ham. Antonie van Leeuwenhoek J. Microbiol. & Serol. 16:269-281. 1950. 448.8 N28A
- 8558 ZAKI, O. A., and EL-AFIFI, A. The effect of bacon brine on pathogenic microorganisms. Vet. Med. 45:453-454,456. Nov.1950. 41.8 M69

#### Consumption and Utilization

- 8559 BELEN'KII, N. G. Utilization of blood of agricultural animals. Communication 9. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(6):3-9. 1950. 20 Ak1
- 8560 SIMMONS, W. M. Consumer meat purchases in Syracuse, New York in 1948 and comparisons with 1942. N. Y. Agr. Col. A. E. 747,35 p. Aug.1950. 281.9 C81

#### Distribution, Marketing, and Transportation

- 8561 BAKER, A. Z. Nation's stockyards are providing better overall facilities. Natl. Live Stock Prod. 28(11):14,27. Sept.1950. 280.38 N21
- 8562 BERESFORD, R. What's the best buy in feeder cattle? Successful Farming 48(10):56,92-93. Oct.1950. 6 Sul2
- 8563 BROWN, C. H. Do your snapshots aid in sales? They don't if poor, but the good ones hit the jackpot. Amer. Kennel Gaz. 67(10):12-15,31. Oct.1950. 48.8 Am3
- 8564 CONWAY, H. M. Live stock markets are improving position for winter season. Natl. Live Stock Prod. 29(2):6,14. Nov.1950. 280.38 N21
- 8565 COX, C. B. Northeastern Indiana farmers sell hogs on peak market. Hoosier Farmer 35(9):35-36, 44. Sept.1950. 280.82 H76
- 8566 CULLEN, M. O. Self-service, one of the newer developments in merchandising meat. Reciprocal Meat Conf. Proc. 2:133-146. 1949. 50.9 R24  
Includes discussion.
- 8567 DEDERER, M. Timely tips help market values. Fur J. 16(7):13. Sept./Oct.1950. 412.628 F969  
Similar title in Black Fox Mag. & Mod. Mink Breeder 34(7):33,38. Nov.1950. 410 B56
- 8568 FOX, M. Toward public understanding.\* Ariz. Cattlelog 6:3-5. Sept.1950. 43.8 Ar42
- 8569 FRENCH, H. W. Runaway market in stocker yearlings and calves; grainfeds stage comeback. Amer. Cattle Prod. 32(5):10,12. Oct.1950. 49 P94
- 8570 FURNER, SIR H. El aprovisionamiento de carnes a Gran Bretaña. (Sum.) Uruguay. Min. de Ganad. y Agr. B. Inform. 325:11,6. June 15,1950. 9.9 G15B
- 8571 GLASHOFF, J. Schweinetyten und marktanforderungen. Hannoverische Land- u. Forstwirt. Ztg. 103:413,415. Apr.22,1950. 18 H194  
Includes influence of type on price.
- 8572 GMELIN, W. Augen auf beim viehinkauf. Milcherzeuger 8:27-28. July 1950. 43.8 M592
- 8573 HUSH, H. How to hit high hog market. Wallaces' Farmer & Iowa Homestead 75(20):5. Oct.21, 1950. 6 W15
- 8574 KIEHL, E. R. Where and how should I buy my feeder cattle. Mo. Agr. Col. Ext. Farm Outlook 1950:1-4. Sept.1950. 275.29 M69Ec
- 8575 KREHAN, H. Gefährübergang beim viehkauf. Kärntner Bauer 100:274-275. Aug.10,1950. 19 K14
- 8576 MILTON, J. C. Out of the doghouse. Butchers' Advocate 128(12):16-17,23. Sept.20,1950. 286.85 B97  
Results of public relations in the meat industry.
- 8577 O'MARA, R. M. Red tape being trimmed in livestock handling. Oreg. Farmer 73:711. Oct.5,1950. 6 Or32
- 8578 O'NEILL, J. B. Helping the retailer develop demand for sausage. Meat 33(5):178-179. Oct.1950. 286.85 M464
- 8579 ONOFRIO, P. Meat cooperatives in Rio Grande do Sul. (In Portuguese.) Divulg. Coop. 8:15. June 1950. 280.28 R47
- 8580 OUELLET, A. Méthodes de vente. Digeste de l'Eleveur 4(12):7-9. Aug.1950. 49 D56
- 8581 OUELLET, A. La vente des animaux de race. Digeste de l'Eleveur 4(8,i.e.9):7-8. May 1950. 49 D56
- 8582 PHILLIPS, R., BROWN, E. H., and DAVIES, J. L. Seasonal variations in the sales of calves in different parts of Great Britain, 1943-1947. J. Dairy Res. 16:283-300. Ref. Dec.1949. 44.8 J823
- 8583 PHILLIPS, R. A. Livestock marketing—organization, marketing channels, and transportation methods. Washington, U. S. Bur. Agr. Econ., 1950. 5 p. 1.941 A2P54  
Talk at informal conference with French livestock producers, Washington, D. C., Sept. 29, 1950.
- 8584 REED, H. Use new "yardstick" to sell hogs on merit rather than weight. Natl. Live Stock Prod. 28(11):12,31. Sept.1950. 280.38 N21
- 8585 SAMPIER, J. Michigan Live Stock Exchange offers best marketing service. Natl. Live Stock Prod. 28(11):8,28. Sept.1950. 280.38 N21
- 8586 WHITE, E. The marketing of livestock in the Snake River Basin counties. Oreg. Dept. Agr., Agr. B. 167:24-25. Sept.1950. 2 Or3
- 8587 WILLS, W. J., and ASHBY, R. C. How feeder cattle are bought will affect your profit or loss. Natl. Live Stock Prod. 29(2):4,7,15. Nov.1950. 280.38 N21



Grading, Inspection, Standardization, and Quality

- 8588 ASDRUBALI, M. Statistical results on destination and bacteriological examination of meats during the years 1940-49 in the slaughterhouse of Perugia. (In Italian.) *Zootec. e Vet.* 5:735-746. Sept.1950. 41.8 Z7 English summary.
- 8589 BEARD, F. J. Demonstration of hog grades. *Meat* 33(5):165-166. Oct.1950. 286.85 M464
- 8590 BERKE, P. Kampf den Häuteschäden. *Versorgung* 4:205. Aug.1950. 280.8 V61
- 8591 BRIGGS, P. S. The evaluation of E. I. crust leathers. *Tanner* 5(3):12-13. Aug.1950. 303.8 T15
- 8592 CHAIN Store Age meat annual, 1950. Chain Store Age, Grocery Exec. Ed. 26(11):83-146. Nov.1950. 286.28 C34
- Cuts and grades.
- 8593 DERBY, T. H. Fading in processed meats. *Meat Merchandising* 26(10):41-43,108-110,112. Oct.1950. 286.85 M462
- 8594 DUCK, R. W. Wiltshire sides make superior pork. *Rur. New-Yorker* 100:682-683. Sept.16,1950. 6 R88
- 8595 GLÄSSER, K. Hitzebeständigkeit von fleischvergiftern. *Monatsh. f. Vetmed.* 5:224-225. Aug.1950. 41.8 M742
- 8596 HALVORSON, H. O., and ULRICH, J. Investigation of canned bacon spoilage. *Conf. Res. Proc.* 1949: 48-56. 50.9 C762
- 8597 HARRINGTON, R. F., SPINDLER, L. A., and HILL, C. H. Freedom from viable trichinae [*Trichinella spiralis*] of pork products prepared to be eaten without cooking under Federal meat inspection. *Helminthol. Soc. Wash. Proc.* 17:90-91. July 1950. 436.9 H36
- 8598 HEINE. Tuberkulose und freibankparagraf. *Lebensmitteltierarzt* 1:94-95. June 1950. 41.8 L49
- 8599 LEYER, H. Lebensmittel-tierarzt oder lebensmittel-veterinär? *Lebensmitteltierarzt* 1:89-91. June 1950. 41.8 L49
- 8600 MACKINTOSH, D. L. Factors causing undesirable meat flavors. *Reciprocal Meat Conf. Proc.* 2:155-161. 1949. 50.9 R24
- Includes discussion.
- 8601 MADIGAN, J. J. Pigs, packers and grading. *Meat* 33(5):164-165. Oct.1950. 286.85 M464
- 8602 PAL, B. N., and SARKAR, P. K. Tentative chemical specifications of pit tanned sole leather made from Indian buffalo hides. *Tanner* 5(3):20-22. Aug. 1950. 303.8 T15
- Great Britain.
- 8603 RAMSBOTTOM, J. M. Discoloration of self-service meat by light. *Meat* 33(5):168-169. Oct.1950. 286.85 M464
- 8604 RIBEIRO, P. DE A. Incidence of causes of beef rejections in slaughterhouses of central Brazil—losses caused by them in 1946-47. (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 4:167-183. Dec.1949. 41.8 S46
- English summary.
- 8605 ROSSI, R. P. Obligatory declaration of the sale of sick animals on the part of the breeder. (In Italian.) *Prog. Vet.* 5:394. July 15,1950. 41.8 P942
- 8606 SCHÖNBERG, F. 50 jahre fleischbeschau-gesetz. *Lebensmitteltierarzt* 1:81. June 1950. 41.8 L49 Germany.
- 8607 SNELL, L. What makes choice veal? *Cent. Co-op. Shipper* 30(10):4-6. Oct.1950. 280.38 C78
- Grades of beef calves.
- 8608 TETERNIK, D. M. For raising the educational level of labor in veterinary sanitary examination of meat and meat products. (In Russian.) *Veterinariia* 27(7):31-35. July 1950. 41.8 V6426
- 8609 TOTZEK. Zur frage der spezialausbildung des schlachthofdirektorennach-wuchses und der lebensmittel-tierärzte. *Lebensmitteltierarzt* 1:85-89. June 1950. 41.8 L49
- Germany.
- 8610 U. S. PRODUCTION AND MARKETING ADMIN. Digest of poultry and domestic rabbit grading and inspection regulations, standards, and grades, by M. W. Buster and W. E. Hauver, Jr. Slightly rev. Washington, 1950. 8 p. 1.956 P86D56
- 8611 WOOLSEY, L. D. Our new grading system. *Fur Trade J. Canada* 27(7):23-26,28. Mar.1950. 410 F965
- Chinchillas.

Packing and Packaging

- 8612 BRIGGS, R. C. Trends in prepackaging of sausage. *Meat* 33(5):177-178. Oct.1950. 286.85 M464
- 8613 ENDRES, J. F. The five steps in pre-packaging meat. *Food Retailing* 143(6):13. Oct.1950. 286.85 B974
- 8614 GARNATZ, G. A review of packaging in connection with retailing meats. *Conf. Res. Proc.* 1949: 57-63. 50.9 C762
- 8615 GARNATZ, G. Technical aspects of prepackaged meats. *Meat* 33(5):169-170. Oct.1950. 286.85 M464
- Also in *Butchers' Advocate* 128(17):9-10,19. Oct.25, 1950. 286.85 B97
- 8616 MCDONNELL, G. H., and CLARK, B. S. Retention of metal container quality. *Conf. Res. Proc.* 1949: 64-73. 50.9 C762
- For meats.
- 8617 PANEL discussion on prepackaged meat problems. *Meat* 33(5):170-171. Oct.1950. 286.85 M464
- Discussion by C. I. Oakley, J. W. G. Smith, and J. A. Brewer.
- 8618 SCHAFFER, H. Centralised meat prepackaging. *Chain Store Age, Grocery Mgr. Ed.* 26(10):92-95,180,182. Oct.1950. 286.28 C34
- 8619 WANDERSTOCK, J. J., NELSON, W. L., and MILLER, J. I. How nitrite-contaminated wrappings can affect the color of your meat. *Food Indus.* 22:1697-1698. Oct.1950. 389.8 F737
- 8620 WINANS, W. E. Production problems of packaged meats. *Meat* 33(5):167-168. Oct.1950. 286.85 M464

Prices, Price Control, and Rationing

- 8621 DUBBELL, R. W. Rabbit prices; how they are determined. *Natl. Rabbit Raiser & Poultry Grower* 17(12):11-12,28. Aug.1950. 40.28 R11
- 8622 KUHN, N. \$1 steaks worry ranchers. *Nation's Business* 38(11):40-41,72-75. Nov.1950. 286.8 N212
- Beef cattle prices and outlook.
- 8623 LOWRY, R. K. A good dog's cost. *All-Pets Mag.* 21(9):58-59. Sept.1950. 48.8 AL5
- 8624 NADASDY, C. Final settlements sent to all consignors; demand sends wool, ewe and lamb prices to higher levels. *Wool Sack* 17(7):1. Oct./Nov.1950. 280.28 W88
- 8625 ROSSI, G. The delivery of cattle to the slaughterhouse and determination of the retail price of meat. (In Italian.) *Clin. Vet.* 73:205-220. July 1950. 41.8 C61
- 8626 ROWE, B. J. Z. Late summer and early fall bring highest hog prices. *N. Mex. Agr. Col. Ext. News* 30(8):3. Aug.1950. 275.29 N463EX
- 8627 WALLACE, N. Enhanced prices now being realised in N.Z. saleyards. *Adelaide Stock & Sta. J.* 45 (2333):5,36. Aug.2,1950. 23 Ad3
- Sheep and lambs.

Processing and Storage

- 8628 ANNUAL meat packers guide, 12th, 1950-1951. Chicago, 1950. 366 p. 225 An77
- 8629 ASSOCIATION FRANÇAISE DES CHIMISTES DES INDUSTRIES DU CUIR. Méthode officielle provisoire d'analyse tannique quantitative adoptée par l'A.F.C.I.C. le 10 février 1950. B. de l'Assoc. Franç. des Chim. des Indus. du Cuir et Doc. Sci. et Tech. des Indus. du Cuir 12:81-90. June 1950. 303.8 B87
- 8630 BAYMA, C. Jerked beef plants in the Northeast. (In Portuguese.) *Seleç. Agr.* 5(52):17-18. Aug.1950. 9.2 Se4
- Brazil.
- 8631 BLACK, R. H. Problems in the storage of pork, and the value of sprays and dusts in the control of parasites. *Reciprocal Meat Conf. Proc.* 2:61-65. 1949. 50.9 R24
- Includes discussion.
- 8632 BORDE, M. B. DE. La corrosion en tannerie; résistance du matériel, préservation des peaux. Paris, *Revue Technique Industries Cuir*, 1950. 39 p. (Conférence Présentée à la Maison de la Chimie, 8) 303 B64
- 8633 BOUGLEUX, L. Les installations frigorifiques pour les fabrications des saucissons secs et les salaisons de viande. *Rev. Prat. du Froid* 5(12):16-18. Sept.1950. 295.8 R323



- 8634 BURTON, D. Vegetable tanning. V. Soc. Leather Trades' Chem. J. 34:291-299. Ref. Aug.1950. 303.9 So12
- 8635 CAMERON, E. Tan your hide! Forest & Outdoors 46(10):16-18. Oct.1950. 99.8 C16
- 8636 CHAMBAR, P., and JULLIEN, I. Travaux exécutés à l'Atelier Experimental de l'Institut de Recherches des industries du cuir sur l'écorce d'Eucalyptus sideroxydon. B. de l'Assoc. Franç. des Chim. des Indus. du Cuir et Doc. Sci. et Tech. des Indus. du Cuir 12: 91-97. June 1950. 303.8 B87
- 8637 CHEN, P. S. Syntans and newer tanning methods. Leather Mir. 61(10):7-10,12-13. (To be cont.) Ref. Oct.1950. 303.8 L484
- 8638 GAUDY, C. A. Explotación cunícola. Chacra 20(238):62-63,82. Sept.1950. 9 C34
- 8639 GERRARD, F. Random thoughts on sausage. Meat Trades' J. 139:1220-1221. Sept.14,1950. 50.8 M46
- 8640 HILBERT, F. L. Tanning with sumac. Leather & Shoes 120(13):10,39. Sept.23,1950. 303.8 H53
- 8641 HOLMES, J. What's ahead from the viewpoint of a packer. Meat 33(5):201-203. Oct.1950. 286.85 M464
- 8642 IMLAY, F., and HAAK, P. J. Home canning of meats. Ky. Agr. Col. Ext. C. 480,12 p. June 1950. 275.29 K415
- 8643 JONES, T. A. D. New developments in curing bacon. Meat 33(5):182-183. Oct.1950. 286.85 M464
- 8644 KENNEY, C. H. Meat curing calls for control. Food Canada 10(8):18-20. Aug.1950. 389.8 F7323
- 8645 KUZNETSOV, B. A. Tovarovedenie kozhevennogo syr'ia [Science of raw hides]. Moskva, Gos. Izd-vo Tekhn. i Ekon. Lit-ry Po Voprosam Zagotovok, 1950. 250 p. 303 K962T
- 8646 MCGOVERN, J. Bonus for wool mills; wool grease, once a troublesome waste product, now has a big future—thanks to trichlorethylene degreasing process for raw wool. Du Pont Mag. 44(5):22-23. Oct./Nov.1950. 309.8 D92
- 8647 MITTON, R. G., and NATTRASS, E. F. The production of leather with enhanced tensile strength by tannage under tension. Soc. Leather Trades' Chem. J. 34:299-313. Aug.1950. 303.9 So12
- 8648 O'FLAHERTY, F., and JACOBS, J. Advantages of brine curing hides. Meat 33(5):180-182. Oct.1950. 286.85 M464
- 8649 O'FLAHERTY, F. Fungicidal treatment of leather; mold-prevention treatment now required of all military leathers. Leather & Shoes 120(14):8-9,31-32. Sept.30,1950. 303.8 H53
- 8650 O'FLAHERTY, F., RODDY, W. T., and JACKSON, L. B. Skin and hide curing. Cattleman 37(5):42,44. Oct.1950. 49 C29
- 8651 PEARSON, A. M., and CUNHA, T. J. La rápida congelación de carnes. Agr. Austral 18:302-304. July 1950. 9.3 Ag842
- 8652 RAMSBOTTOM, J. M., GOESER, P. A., and STRANDINE, E. J. The effect of different factors on the freezing rate of meats. Conf. Res. Proc. 1949:94-109. Ref. 50.9 C762
- 8653 RAO, A. L. S. Use of masking salts in chrome tanning. Tanner 5(3):15. Aug.1950. 303.8 T15
- 8654 RICE, E. E. The effects of processing on the vitamin content of meats. Conf. Res. Proc. 1949:1-7. 50.9 C762
- 8655 SAINT-PRIEST, P. Tannage sans tanin. Rev. Tech. des Indus. du Cuir 42:161-163. Sept.1950. 303.8 C89
- 8656 SCHMITT, V. Iron-tanned sole leather. Leather & Shoes 120(16):12,39-41. Oct.14,1950. 303.8 H53
- 8657 SCHWEIGART, H. A. The sterilization of canned meat products. Food Indus. So. Africa 3(5):37,39, 41,43. Sept.1950. 389.8 F7372
- 8658 SIMONCINI, E. Contribution to the improvement of leathers. (In Italian.) Italy. Staz. Sper. per l'Indus. delle Pelli e delle Materie Concianti. B. Uffic. 26:107-113. (Cont.) Aug.1950. 303.8 It1
- 8659 SMALL PIG KEEPERS COUNCIL. Home curing of bacon and hams. Gt. Brit. Min. Agr. & Fisheries. B. 127, rev. 61 p. Ref. Nov.1949. 10 G794B
- 8660 STACE, T. W. Bacon cutting. Co-op. Rev. 24: 212-213. Sept.1950. 280.28 C7823
- 8661 STEINER, E. T., and HOSTERMAN, E. R. Aging of karakul and seal fur skins. Amer. Leather Chem. Assoc. J. 45:579-590. Sept.1950. 303.9 Am32
- Also in U. S. Natl. Bur. Standards. J. Res. 45:317-322. Oct.1950. 157.88 J82
- 8662 THEIS, E. R., and STEINHARDT, R. G., JR. Protein axial movement studies. II-III. Amer. Leather Chem. Assoc. J. 45:591-642. Ref. Sept.1950. 303.9 Am32
- III, by E. R. Theis, C. D. Wilson, and H. Halpin. In leather manufacture.
- 8663 VAN PELT, C. F. Tanning in a military economy. Leather & Shoes 120(19):16. Nov.4,1950. 303.8 H53
- 8664 VASSOGNE, G. La congelation des viandes désossées. Rev. Prat. du Froid 5(12):13-14. Sept.1950. 295.8 R323
- 8665 VIBRANS, F. C. New methods of rendering and processing lard. Meat 33(5):183-185. Oct.1950. 286.85 M464
- 8666 WISE, S. G. A. Syntans; their development and use in the tanning industry. Tanner 5(3):17-18;(4):13-15. (Cont.) Aug.-Sept.1950. 303.8 T15
- 8667 WOODROOF, J. G., and HAYNES, R. D. Curing pork—country style. Locker Mangt. 4(11):18-21. Nov.1950. 389.8 L79
- 8668 YOUNG, H. J. Los cueros, tratamiento y defectos. Argentina. Min. de Agr. Almanaque 25:313-316. 1950. 9 Ag874

## Statistics

- 8669 BAHIA. DEPT. ESTADUAL DE ESTATÍSTICA. População e produção pecuárias, 1944/1948 [Livestock population and production 1944/1948]. Salvador?1949. 19 p. 255.3 B147P
- 8670 DRUCE, P. C., and DALEY, C. J. Changes in the location of livestock slaughtering in New South Wales, 1931-1949. Rev. Mktg. & Agr. Econ. (n.s.)18:140-159. June 1950. 286.8 N47M
- 8671 HOTHUM, G. Kaninchen erzeugen: fleisch, felle und wolle. Kleintierzüchter Tierbörse 4(37):1. July 29,1950. 49 K672
- Costs and returns; statistics on rabbit production in Germany.
- 8672 LEWIS, L. H. Cattle numbers. For Sale, Want & Exch. B. 2(11):1. Oct.2,1950. 280.38 F74
- Florida.
- 8673 MULLIE, G. Étude économique de la production bovine. Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén. 2(1):13-24. 1949. 43.9 C767
- Text also in Flemish.
- Statistics.
- 8674 NEW ZEALAND. DEPT. OF AGRICULTURE. The annual sheep returns for the year ended 30th April, 1949. Wellington, 1950. 31 p. 45.9 N482
- 8675 PAETZMANN, H. Der Schweinebestand in der Bundesrepublik. Deut. Landwirt. Presse 73(18):13-14. (Cont.) Aug.19,1950. 18 D482
- Statistics.
- 8676 VINCENT, G. Le problème de la viande bovine. Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén. 2(1):25-40. 1949. 43.9 C767
- Includes statistics.

## OILS AND OILSEEDS

- 8677 AIRAN, J. W., and GHATGE, N. D. Cystine and methionine in the protein from the seeds of carilla fruit. Indian Chem. Soc. J. 27:99-100. Feb.1950. 385 In27
- Momordica charantia.
- 8678 ALGERINO, A. Chimica analitica applicata all'industria tessile e tintoria. V. 2. I prodotti chimici [Analytical chemistry applied to the textile and dyeing industry. V. 2. Chemical products]. Ed. 2, rev. and enl. Milano, Hoepli, 1950. 396 p. 304 AL3
- Contains data on vegetable oils.
- 8679 AMERICAN OIL CHEMISTS' SOCIETY. Directory of members, August, 1950. Chicago, 1950. 113 p. 225 Am362
- 8680 AMERICAN OIL CHEMISTS' SOCIETY. Lectures of the 1950 short course on drying oils, sponsored jointly by American Oil Chemists' Society and the Federation of Paint and Varnish Production Clubs at the University of Minnesota, Minneapolis, August, 7-11. Amer. Oil Chem. Soc. J. 27:433-544. Nov.1950. 307.8 J82



- 8681 ARGENTINA. DIRECCION DE ECONOMIA. El mercado local del girasol. Argentina. Comn. Nac. de Granos y Elevadores. B. Inform. 11:39-48. Mar.31, 1950. 286.81 Ar3
- 8682 ARNOLD, L. K., and CHEN, S. L. Gelling properties of a water extract of trichloroethylene-extracted soybean oil meal. Soybean Digest 19(11):26-27, 82. Sept.1950. 60.38 So9
- 8683 AUBONE, G. R. Estado actual de la olivicultura en el país y sus perspectivas. Vinos, Viñas y Frutas 45(538):61,63,65,67,69,71. July 1950. 9 Ag89 Argentina.
- 8684 BACHA, R. J. Estudios sobre gossypol en relación con materias primas argentinas. La Plata. U. Nac. Facul. de Cien. Quím. Rev. (1947)22:255-259. Ref. 1949. 385 L31  
Gossypol in ten varieties of cottonseed.
- 8685 BALTES, J. Neuzzeitliche methoden zur veredlung trocknender öle: Isomerisierte öle. Fette u. Seifen 52:462-466. Ref. Aug.1950. 384 C422
- 8686 BECKER, E. Ursachen der oxydationserscheinungen in margarine. Fette u. Seifen 52:546-549. Sept. 1950. 384 C422
- 8687 BERNSTEIN, I. M. Drying oils in printing inks. Amer. Oil Chem. Soc. J. 27:534-538. Nov.1950. 307.8 J82
- 8688 BIANCHI, V. A. Fundamentos para especificaciones de aceite de ricino deshidratado. La Plata. U. Nac. Facul. de Cien. Quím. Rev. (1947)22:131-141. Ref. 1949. 385 L31  
Summary of a thesis.
- 8689 BIGGAR, H. H. Promoting your product. Soybean Digest 10(11):63-65. Sept.1950. 60.38 So9
- 8690 BLAS, L., and ADRIÁN, J. Los componentes inorgánicos de la aceituna y de las hojas del olivo (Olea europae L.). Ion 10:402-404. July 1950. 385 Io6
- 8691 BOSE, S. M., RAO, C. N. B., and SUBRAMANYAN, V. Some factors affecting the bactericidal property of lemongrass oil emulsions. Soap, Perfumery & Cosmetics 23:1031-1035. Ref. Oct.1950. 307.8 So13
- 8692 BRANDT, K. The world economic situation of fats and oils. Amer. Oil Chem. Soc. J. 27:401-408. Nov. 1950. 307.8 J82
- 8693 BRIDGE, R. E., and HILDITCH, T. P. The seed fat of Macadamia ternifolia. Chem. Soc. J. 1950: 2396-2399. Sept.1950. 382 L84J
- 8694 BRIERLEY, R. G. Soy flour in Germany. Soybean Digest 10(11):72-73. Sept.1950. 60.38 So9
- 8695 BUDOWSKI, P., MENEZES, F. G. T., and DOLLEAR, F. G. Sesame oil. V. The stability of sesame oil. Amer. Oil Chem. Soc. J. 27:377-380. Ref. Oct. 1950. 307.8 J82
- 8696 BÜHRER, N. E. Qualitative reaction for the determination of sesame oil in other edible oils. (In Portuguese.) Rev. de Quím. Indus. 19(219):26. July 1950. 385 R324
- 8697 BURGER, W., and WIEDEMANN, G. Über die bildung von fettsäuren mit konjugierten doppelbindungen bei der autoxydation von fetten. Fette u. Seifen 52:459-462. Aug.1950. 384 C422
- 8698 BURTIS, E. L. The outlook for fats, oils, and oilseeds in 1950-51. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2B95  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.
- 8699 CARLYLE, R. E. Harvest drying of soybeans. Feedstuffs 22(38):53. Sept.23,1950. 286.81 F322
- 8700 CARRICK, L. L. Vegetable oil paints. Amer. Oil Chem. Soc. J. 27:513-522. Ref. Nov.1950. 307.8 J82
- 8701 CHANG, I., and WATTS, B. M. Some effects of salt and moisture on rancidity in fats. Food Res. 15:313-321. Ref. July/Aug.1950. 389.8 F7322
- 8702 COLASSURDO, O. Oils and fats. I-II. (In Portuguese.) Rev. Bras. de Quím. (Cien. & Indus.) 28.i.e.29: 315-317;30:23-28. June-July 1950. 385 R322  
Chemistry and processing.
- 8703 COWAN, J. C. Isomerization and transesterification. Amer. Oil Chem. Soc. J. 27:492-499. Ref. Nov.1950. 307.8 J82  
Drying oils.
- 8704 CROOKS, H., and CARRIERO, W. F. Now—a precise gage of enrobing fats. Food Indus. 22:1693-1694. Oct.1950. 389.8 F737  
Softening point of vegetable fats.
- 8705 DAS, D. B., and BASAK, K. K. A study on the viscosity of decorticated tamarind seed powder (Tamarindus indica, L.). Indian Chem. Soc. J. 27:115-122. Mar. 1950. 385 In27
- 8706 DIMOND, A. B. Why a farmer grows soybeans. Soybean Digest 10(11):36,38. Sept.1950. 60.38 So9
- 8707 DUGAN, I. R., JR., and others. Butylated hydroxyanisole as an antioxidant for fats and foods made with fat. Food Technol. 4:457-460. Nov.1950. 389.8 F7398  
H. R. Kraybill, L. Ireland, and F. C. Vibrans, joint authors.
- 8708 DUNNING, J. W. Mechanical extraction of drying oils. Amer. Oil Chem. Soc. J. 27:446-451. Nov. 1950. 307.8 J82
- 8709 ENGLISH, H. P. 1949 grain standards, their effect on soybean marketing. Soybean Digest 10(11):74. Sept.1950. 60.38 So9
- 8710 FARLOW, L. Soybeans and the country elevator. Soybean Digest 10(11):52-54. Sept.1950. 60.38 So9
- 8711 FAURE, J. C. A. Die welt-fettlage. Fette u. Seifen 52:506-508. Aug.1950. 384 C422
- 8712 FAURE, J. C. A. World supply of oil seeds. Oils & Oilseeds J. 3(2):17-22. Aug.1950. 307.8 Oi54
- 8713 FERNANDES, J. S. Agriculture of the North and Northeast: the babassu myth. (In Portuguese.) Chacaras e Quintais 82:341-342. Sept.15,1950. 9.2 C34
- 8714 FICHERA, A. Olive oil and related provisions. (In Italian.) Rass. Chim. 2(3):31-33. May/June 1950. 385 R18
- 8715 FETELSON, J. Report on oils, fats, and waxes. Assoc. Off. Agr. Chem. J. 33:745-747. Aug.15, 1950. 381 As7
- 8716 GIZYCKI, F. VON, and KOTITSCHKE, G. Das samenöl von Nicandra physaloides. Fette u. Seifen 52: 454-455. Aug.1950. 384 C422
- 8717 GLOYER, S. W. Fractionation of drying oils and acids. Amer. Oil Chem. Soc. J. 27:462-467. Ref. Nov.1950. 307.8 J82
- 8718 GRAMER, P. J. S. A comparison between oil-palms and coconuts. Planter 26:341-348. (To be cont.) Aug.1950. 78.8 P69
- 8719 GREEN book of cottonseed and other vegetable oil products, 1950/51, v. 36. Dallas,1950. 508 p. 72 In83
- 8720 GUPTA, S. S., and MEARA, M. L. The configuration of naturally occurring mixed glycerides. VI. The component fatty acids and glycerides of Stillingia tallows. Chem. Soc. J. 1950:1337-1342. May 1950. 382 L84J  
Tallow encasing the seeds.
- 8721 GUTKIN, S. S. Miscellaneous uses of drying oils. Amer. Oil Chem. Soc. J. 27:538-544. Nov.1950. 307.8 J82
- 8722 HAARER, A. E. Okra seed oil. Paint, Oil & Colour J. 118:576. Sept.22,1950. 306.8 Oi52
- 8723 HAFELI, J. M. The use of drying oils in oleoresinous varnishes. Amer. Oil Chem. Soc. J. 27: 523-529. Nov.1950. 307.8 J82
- 8724 HARRIS, E. B. Why a futures market in soybeans and soybean oil? Soybean Digest 10(11):68-71,74. Sept.1950. 60.38 So9
- 8725 HARTARD E., M. Producción industrial de alimentos grasos. Industria 67:485-486. Aug.1950. 297.9 So1  
Statistics for Chile.
- 8726 HELLER, H. Rohstoffe der wachsenden industrie. Umschau 50:531. Sept.1,1950. 474 Um7
- 8727 HENDRIX, C. H. The soybean industry. Flour & Feed 51(5):16. Oct.1950. 298.8 F66  
Similar title in Soybean Digest 10(11):60-61. Sept.1950. 60.38 So9
- 8728 HOBBIIE, E. Yellow oleo is a fraud. Mich. Milk Messenger 32(5):1,6. Sept.1950. 44.8 M582
- 8729 HOLMAN, L. E. What is good soybean storage? Soybean Digest 10(11):44-45. Sept.1950. 60.38 So9
- 8730 HOVEY, A. G. Copolymerization. Amer. Oil Chem. Soc. J. 27:481-491. Ref. Nov.1950. 307.8 J82  
Drying oils.
- 8731 HSU, H. L., OSBURN, J. O., and GROVE, C. S., JR. Pyrolysis of the calcium salts of fatty acids. Indus. & Engin. Chem. 42:2141-2145. Ref. Oct.1950. 381 J825



- 8732 HUGHES, P. C. Soybean storage. *Ark. Farmer* 52(9):6. Sept.1950. 6 Ar42
- 8733 JACOBS, M. B. The citrus essential oils. *Amer. Perfumer & Essential Oil Rev.* 56:309-310. Oct.1950. 308.8 Am3
- 8734 JANVRY, J. C. DE. Les oléagineux métropolitains en 1950. *Oléagineux* 5:586-588. Oct.1950. 77.8 OL2
- 8735 JASSPON, W. H. Reappraisal of American oilseeds markets and other comments. *Oil Mill Gaz.* 55(4):13-18. Oct.1950. 307.8 OI53
- 8736 JORDAN, G. L. What determines soybean prices? *Soybean Digest* 10(11):40-42. Sept.1950. 60.38 So9
- 8737 JUANTORENA, J. Informe sobre "la candelilla." *Agr. Venezol.* 15(143):46-47. June 1950. 9.95 Ag8
- 8738 KANTOR, M. Refining of drying oils. *Amer. Oil Chem. Soc. J.* 27:455-462. Nov.1950. 307.8 J82
- 8739 KEHREN, L. L'extraction de l'huile de palme par la vapeur saturée. *Oléagineux* 5:563-568. Ref. Oct.1950. 77.8 OL2
- 8740 KELLER, J. C. Prices for clean-up of 1949 peanut crop reaches new all-time high. *Peanut J. & Nut World* 29(12):33-34. Oct.1950. 77.8 P313
- 8741 KIRSTEN, G. Report on peanut oil. *Assoc. Off. Agr. Chem. J.* 33:747-748. Aug.15,1950. 381 As7
- 8742 KONEN, J. C. The significance of tests on drying oils. *Amer. Oil Chem. Soc. J.* 27:505-509. Nov.1950. 307.8 J82
- 8743 LA FACE, F. The essential oil industry in Italy. (In Italian.) *Ricerca Sci.* 20:761-772. Ref. June 1950. 475 It1
- 8744 LECHAUVE, P. L'oléotechnie en Tunisie. *Colon Franç. de Tunisie* 60(2158):1-2. Aug.12,1950. 24 C712
- Olive oil manufacture.
- 8745 LIEBEL, L. N. Peppermint oil; an economic study. *Wash. Agr. Expt. Sta. Pop. B.* 199,25 p. Aug.1950. 100 W27E
- 8746 LIPS, H. J. Important dates in the history of edible fat & oil technology. *Canad. Food Indus.* 21(10):38-39,41,43,45,47. Oct.1950. 286.83 C166
- 8747 LIPS, H. J. A laboratory deodorizer for fats and oils. *Amer. Oil Chem. Soc. J.* 27:422-423. Nov.1950. 307.8 J82
- 8748 MATAGRIN, A. Le soja en Corée. *Rev. Internat. des Prod. Colon.* 24:161-165. Aug./Sept.1950. 286.8 R326
- 8749 MAYWALD, F. What will we do with the 1950 crop? *Soybean Digest* 10(11):59-60. Sept.1950. 60.38 So9
- 8750 MEMPHIS (TENNESSEE) MERCHANTS EXCHANGE CLEARING ASSOCIATION. Soybean market summary; record soybean supplies in prospect for 1950-51. *Memphis, 1950.* 2 p. 60.39 M51Sm
- Statistics.
- 8751 MILLIARD, W. J. Production of essential oils by Guatemala is major industry. *Foreign Trade* 8:593-595. Oct.7,1950. 286.8 C162
- 8752 MILNER, R. T. Recent progress in soybean research at Northern Regional Research Laboratory. *Soybean Digest* 10(11):28-29,82. Sept.1950. 60.38 So9
- 8753 MOLANO CAMPUZANO, J. La soya en la alimentación colombiana. *Rev. Agr. y Ganad.* 12(126):9. July 1950. 9.4 R327
- Discusses various uses.
- 8754 MOLONEY, J. F. Cottonseed: marketing—processing—utilization. In Andrews, W. B., ed. *Cotton production, marketing and utilization*, p. 431-463. Ref. State College, Miss., 1950. 280.372 An22
- 8755 MONOD, C., and DORTAN, D. DE. L'essence de graines d'anis et de fenouil. *Indus. de la Parfumerie* 5:401-406. Ref. Sept.1950. 308.8 In2
- 8756 MUKHERJEE, S. Determination of peroxide value of rancid fats; a modified procedure. *Indian Chem. Soc. J.* 27:87-90. Feb.1950. 385 In27
- 8757 NATIONAL SOYBEAN PROCESSORS ASSOCIATION. Year book and trading rules, 1949-1950. Chicago, 1950. 73 p. 60.39 N21
- 8758 NAVES, Y. R. Sur quelques progrès récents de la chimie des constituants terpéniques des huiles essentielles. *Chimie* 4:227-232. Ref. Oct.15,1950. 385 C444
- 8759 O'HARE, G. A. Drying oils in the floor covering industry. *Amer. Oil Chem. Soc. J.* 27:530-533. Nov.1950. 307.8 J82
- 8760 PARKIN, F. P. The solvent extraction of drying oils. *Amer. Oil Chem. Soc. J.* 27:451-554. Ref. Nov.1950. 307.8 J82
- 8761 PAULA, R. D. DE G. The soybean. (In Portuguese.) *Rev. Bras. de Quím. (Cien. & Indus.)* 30:42,44, 46-48. July 1950. 385 R322
- Analysis and products.
- 8762 PELLETT, K. Hang on to your beans. *Wailaces' Farmer & Iowa Homestead* 75(19):3,19. Oct.7, 1950. 6 W15
- Soybean storage situation.
- 8763 PERSELL, R. M., and others. Pilot-plant fractionation of cottonseed. V. A preliminary cost study. *Amer. Oil Chem. Soc. J.* 27:383-386. Ref. Oct.1950. 307.8 J82
- H. L. E. Vix, C. G. Reuther, and E. F. Pollard, joint authors.
- 8764 PISKUR, M. M. Fette und fettprodukte im neueren schrifttum. 5. Literatur des jahres 1941. *Fette u. Seifen* 52:497-499. Aug.1950. 384 C422
- 8765 PONS, W. A., JR., HOFFPAUIR, C. L., and O'CONNOR, R. T. Determination of total gossypol pigments in cottonseed materials. *Amer. Oil Chem. Soc. J.* 27:390-393. Oct.1950. 307.8 J82
- 8766 POWERS, P. O. Heat bodying of drying oils. *Amer. Oil Chem. Soc. J.* 27:468-472. Ref. Nov.1950. 307.8 J82
- 8767 POWERS, P. O. Styrenation of fatty acids. *Indus. & Engin. Chem.* 42:2096-2099. Oct.1950. 381 J825
- 8768 PRUNTY, M. C., JR. Soybeans in the lower Mississippi Valley. *Econ. Geog.* 26:301-314. Oct.1950. 278.8 Ec7
- 8769 RAOUL, W., and IACHAN, A. Contribution to the study of Brazilian sassafras. (In Portuguese.) *Rev. de Quím. Indus.* 19(218):12-15. (Cont.) Ref. June 1950. 385 R324
- Composition of sassafras oil.
- 8770 RAOUL, W. Wax from maté. (In Portuguese.) *Rev. Bras. de Quím. (Cien. & Indus.)* 30:38,40,42. July 1950. 385 R322
- 8771 RAUF, U. A., and AHMED, Y. Utilization of cotton-seed cake. (Abs.) *Co-op. & Mktg. Rev.* 4:249. July 1950. 280.28 C78243
- Chemistry.
- 8772 RAY, G. Contributions of the peanut processors to the peanut industry. (Excerpts.) *Peanut J. & Nut World* 29(12):28-29. Oct.1950. 77.8 P313
- 8773 ROVESTI, P. Characteristics of some essences of *Salvia sclarea* simil. (In Italian.) *Riv. Ital. Essenze, Profumi, Piante Off., Olli Veg., Saponi* 32:428-429. Sept.15,1950. 308.8 R52
- 8774 SCHEPARTZ, A. I., and DAUBERT, B. F. Flavor reversion in soybean oil. V-VI. *Amer. Oil Chem. Soc. J.* 27:367-377. Ref. Oct.1950. 307.8 J82
- VI, by J. Stapf and B. F. Daubert.
- 8775 SETHI, S. C., and AGGARWAL, J. S. Stabilization of edible fats by condiments or spices. *Nature [London]* 166:518-519. Sept.23,1950. 472 N21
- 8776 SINGLETON, W. S., and FREEMAN, A. F. Expansibility and specific volume of stabilized and unstabilized peanut butter. *Food Res.* 15:297-301. July/Aug.1950. 389.8 F7322
- 8777 SISLEY, J. P. La conservation des corps gras alimentaires. *Rev. des Ferment. et des Indus. Aliment.* 5:126-135. Ref. Aug.1950. 390.08 R32
- 8778 SMITH, A. S., and WECHTER, F. J. Vapor pressure of hexane-soybean oil solutions at low solvent concentrations. *Amer. Oil Chem. Soc. J.* 27:381-383. Oct.1950. 307.8 J82
- 8779 SORENSEN, S. O. The present and future of drying oils. *Amer. Oil Chem. Soc. J.* 27:436-440. Nov.1950. 307.8 J82
- 8780 SPADARO, J. J., MCCOURTNEY, E. J., and VIX, H. L. E. Solvent extraction of cottonseed and peanut oils. VII. *Amer. Oil Chem. Soc. J.* 27:394-396. Oct.1950. 307.8 J82
- 8781 TAYLOR, W. L. Blowing drying oils. *Amer. Oil Chem. Soc. J.* 27:472-476. Ref. Nov.1950. 307.8 J82
- 8782 TERRILL, R. L. Dehydration of castor oil. *Amer. Oil Chem. Soc. J.* 27:477-481. Ref. Nov.1950. 307.8 J82
- 8783 U. S. COMMODITY CREDIT CORPORATION. 1950 crop peanut price support program. Washington, 1950. 16 p. 1.956 A2C889



- 8784 U. S. COMMODITY EXCHANGE AUTHORITY. Speculation in soybeans. Washington, 1950. 10 p. 1.945 Sp3
- 8785 U. S. PRODUCTION AND MARKETING ADMIN. Cash costs of farm storage in marketing soybeans, by D. B. Agnew and C. H. Keirstead. Washington, 1950. 62 p. 1.956 F26C26
- 8786 U. S. PRODUCTION AND MARKETING ADMIN. Marketing study of the oil content of soybeans as related to production areas and climate, by N. Pahigian. Washington, 1950. 31 p. Ref. 1.956 F26M34
- 8787 U. S. PRODUCTION AND MARKETING ADMIN. FATS AND OILS BR. Distribution of marketing and processing costs of cottonseed-oil mills, 1947-48. Preliminary report, by D. Jackson and C. C. Spilsbury. Washington, 1950. 89 p. 1.956 F26D63
- 8788 VAHLTEICH, H. W. Some physicochemical aspects of margarine manufacture. In Alexander, J., ed. Colloid chemistry, v.7, p.673-684. Ref. New York, Reinhold, 1950. 386 AL22C
- 8789 VERA, O. R. Contenido en tocoferoles del aceite de germen de trigos argentinos. La Plata. U. Nac. Facul. de Cien. Quím. Rev. (1947)22:231-239. Ref. 1949. 385 L31  
Summary of a thesis.
- 8790 WACHS, W., UMSTATTER, H., and REITSTOTTER, J. Über das alternierende verhalten homologer fettsäuren. Fette u. Seifen 52:456-459. Aug. 1950. 384 C422
- 8791 WARD, A. L. A challenge—what will you do about it? Oil Mill Gaz. 55(3):13-17. Sept. 1950. 307.8 Oi53  
Cottonseed and soybean processing industries.  
Also in Soybean Digest 10(11):48-51. Sept. 1950. 60.38 So9
- 8792 WARD, A. L. Report to oil mills on the NCPA [National Cottonseed Products Association] program of oilseed research. Cotton Gin & Oil Mill Press 51(22): 9-10, 35. Oct. 28, 1950. 304.8 C822
- 8793 WARD, T. L., and SINGLETON, W. S. Thermal properties of fats and oils. VII. Hydrogenated and unhydrogenated peanut oils. Amer. Oil Chem. Soc. J. 27: 423-426. Nov. 1950. 307.8 J82
- 8794 WHEELER, D. H. The chemistry of drying oils. Amer. Oil Chem. Soc. J. 27:440-445. Nov. 1950. 307.8 J82
- 8795 WHITEHURST, J. P. "Modern" soybeans: key to "modern" margarine. Soybean Digest 10(11):66-67. Sept. 1950. 60.38 So9
- 8796 WILLIAMS, K. A. Oils, fats and fatty foods; their practical examination. Ed. 3. London, Churchill, 1950. 500 p. 389 W673  
Analysis and composition.
- ### POULTRY AND POULTRY PRODUCTS
- 8797 BAKER, R. L. Iowa improves egg marketing. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:55-57. Oct. 1950. 275.28 Io94
- 8798 BEAU, M. La station d'emballage d'oeufs de l'Entrepot-Gare Frigorifique de Paris-Vaugirard. Indus. Lait. [Paris] (n.s.)47:149-151. Aug. 1950. 44.8 In2
- 8799 BENOÎT, C. E. Comment vendre plus de poussins. Avicult. Québécois 6(10):10-11. Oct. 1950. 47.8 Av55
- 8800 BERNARDON. Considerations sur la conservation frigorifique des oeufs. Rev. Prat. du Froid 5(12): 14-15. Sept. 1950. 295.8 R323
- 8801 BILLINGS, W. A. Changes coming in the turkey business. Calif. Turkey News 22:21, 58-60. Sept. 1950. 47.28 C12
- 8802 BINKLEY, C. H., and VASAK, O. R. Production of a friable meal from feathers. Natl. Farm Chemurg. Council. Res. Div. Chemurg. Papers 5, 5 p. 1950. 381 N2132  
May be used as fertilizer or plaster retarder.
- 8803 BLACKWELL, H. L. Take care of the eggs. Farmers Wk. [London] 33(15):67. Oct. 13, 1950. 10 F2226
- 8804 BOUTHILET, R. J. Chicken flavor; separation and concentration of its volatile components from broth. Food Res. 15:322-325. July/Aug. 1950. 389.8 F7322
- 8805 BOYCE, E. B. Report on free ammonia in eggs. Assoc. Off. Agr. Chem. J. 33:703-707. Aug. 15, 1950. 381 As7
- 8806 BROWN, T. T. War talk boosts broiler production. South. Planter 111(10):40-41. Oct. 1950. 6 So89
- 8807 BUSTER, M. Poultry grading and inspection program. Butchers' Advocate 128(16):17-22. Oct. 18, 1950. 286.85 B97
- 8808 CARPENTER, C. D. We can have good broiler markets; chick producers, growers, processors, and retailers have a mutual job to do. Broiler Growing 1:18, 64. Sept. 1950. 47.8 B782
- 8809 CHRISTENSEN, R. P., and MIGHELL, R. L. Competitive position of chicken and egg production in the United States. U. S. D. A. Tech. B. 1018, 58 p. Ref. Aug. 1950. 1 Ag84Te
- 8810 CLARENBURG, A., and BURGER, H. C. Survival of Salmonellae in boiled ducks' eggs. Food Res. 15: 340-341. July/Aug. 1950. 389.8 F7322
- 8811 DELL, A. Poultry raising in England. (In Portuguese.) Seleg. Agr. 5(52):47-50. Aug. 1950. 9.2 Se4
- 8812 DUGAS, M. E. Le secteur avicole de l'agriculture gaspésienne. Avicult. Québécois 6(10):17-19. Oct. 1950. 47.8 Av55
- 8813 EARLE, W., and DARRAH, L. B. New York and United States farm prices of eggs. N. Y. Agr. Col. Farm Econ. 175:4511-4512. July 1950. 280.8 C812
- 8814 EGGLETON, L. Z. How can midwestern farm poultry raisers adjust to fit the changing meat production pattern? (Excerpts.) U. S. Egg & Poultry Mag. 56(10): 12, 26. Oct. 1950. 286.85 Eg3
- 8815 FLOREA, J. H. What C-O-T [Chicken-of-Tomorrow] program is doing for poultry industry. Broiler Growing 1:20-21, 65, 67. Sept. 1950. 47.8 B782
- 8816 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Commodity reports: poultry and eggs. Washington, 1950. 20 p. 281.3479 F73
- 8817 FOSTER, C. Look after the winter egg. Poultry [London] 107:250. Sept. 26, 1950. 47.8 P869  
Quality and marketing in Great Britain.
- 8818 FRIGIDAIRE DIV. OF GENERAL MOTORS. Planning refrigeration for egg purchasing and grading plants. Amer. Egg & Poultry Rev. 11(9):46-48, 50. Sept. 1950. 47.8 Am38  
Ohio State University cooperating.
- 8819 GIBBONS, N. E. The storage of eggs and poultry. Canad. Poultry Rev. 74(10):9-10. Oct. 1950. 47.8 C16
- 8820 GIBSON, J. M. United States egg surplus. Farm Econ. 6:204-206. Aug. 1950. 281.8 F223
- 8821 GIL LEON, J. L. Cuidados del huevo antes de ser enviado a consumo. Argentina. Min. de Agr. Almanaque 25:337-340. 1950. 9 Ag874
- 8822 GLABAU, C. A. Handling frozen eggs for best results in the bakery. V-X. Bakers Wk. 147(13):68-70; 148:39-41; (2):48-50; (3):50-52; (4):46-48; (5):88-90. Sept. 25-Oct. 30, 1950. 389.8 B172
- 8823 GORDEUK, A. Arkansas heads for the top! Major trends are preference for white birds and development of own hatching egg supply. Broiler Growing 1:25, 71-72. Sept. 1950. 47.8 B782
- 8824 GORDEUK, A. Delmarva produces a broiler for each person in nation. Broiler Growing 1(2):8-9, 18, 20. Oct. 1950. 47.8 B782
- 8825 GORDEUK, A. Indiana "100" Broiler Club underway. Corn Clubs have boosted production through record keeping on methods used. The same can be done for the broiler industry. Growers to keep cost accounts and a record of information on breeding, feeding, management, and health program. Broiler Growing 1(2):13, 41. Oct. 1950. 47.8 B782
- 8826 GORESLINE, H. E. Heat treatment keeps eggs fresh. Mktg. Activ. 13(9):8-9. Sept. 1950. 1.942 A8M34  
Thermostabilization.  
Also in Coop. Poultryman 15(10):10. Oct. 1950. 47.8 C782
- 8827 GORESLINE, H. E., MOSER, R. E., JR., and HAYES, K. M. A pilot scale study of shell egg thermostabilization. Food Technol. 4:426-430. Ref. Nov. 1950. 389.8 F7398
- 8828 GWIN, J. M. The Delmarva broiler industry. Md. Agr. Expt. Sta. B. A-57, 35 p. Oct. 1950. 100 M36S
- 8829 GWIN, J. M. Poultry meat cost study. Amer. Egg & Poultry Rev. 11(9):18-19. Sept. 1950. 47.8 Am38



- 8830 HADORN, H., JUNGKUNZ, R., and BIEFER, K. W. Der kohlenwasserstoffgehalt des eieröles. Helvet. Chim. Acta 33:1934-1936. 1950. 385 H36
- 8831 HANSON, H. L., and others. Preparation and storage of frozen cooked poultry and vegetables. Food Technol. 4:430-434. Nov.1950. 389.8 F7398
- H. M. Winegarden, M. B. Horton, and H. Lineweaver, joint authors.
- 8832 HAWTHORNE, J. R. Dried albumen: removal of sugar by yeast before drying. J. Sci. Food & Agr. 1: 199-201. Ref. July 1950. 382 So12
- In eggs.
- 8833 HILLIG, F. Report on decomposition in eggs. Assoc. Off. Agr. Chem. J. 33:722-727. Aug.15,1950. 381 As7
- 8834 HINSHAW, J. E. Trends in the broiler industry. Broiler Growing 1:22,43. Sept.1950. 47.8 B782
- 8835 HUBBARD, L. Half century of progress. Pa. Farmer 143:167,186,195. Sept.23,1950. 6 P383
- Pennsylvania poultry industry.
- 8836 HUNTINGTON, H. Industry must advertise the meat it produces; Poultry and Egg National Board is doing a job that deserves the support of all. Broiler Growing 1:36,40. Sept.1950. 47.8 B782
- 8837 HUTTAR, J. C. Let's sell more Northeastern eggs. Amer. Agr. 147:541,556. Oct.7,1950. 6 Am3
- 8838 IOWA CROP AND LIVESTOCK REPORTING SERV. Poultry in Iowa. Iowa Dept. Agr. B. 93.1,16 p. 1950. 2 Io9B
- 8839 JOHNDEW, O. F., JR. Tips on egg case changes that can save confusion. Amer. Egg & Poultry Rev. 11(9):20,22. Sept.1950. 47.8 Am38
- 8840 JOHNSON, W. D. This is the year for greater turkey profits! Meat Merchandising 26(11):28,30. Nov. 1950. 286.85 M462
- 8841 KAHLBERG, O. J. Studies on the use of syrups in egg products. Report No. 3. Natl. Egg Prod. Assoc. Res. B. 37,4 p. Aug.7,1950. 47.9 N2122R
- 8842 KANTNER, A. H. Poultry prices on the New York City market 1875-1949. N. Y. Agr. Col. A. E. 748, 27 p. Aug.1950. 281.9 C81
- 8843 KARPOFF, E. The outlook for eggs and poultry in 1951. Washington, U. S. Bur. Agr. Econ.,1950. 3 p. 1.941 A2K14
- Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.
- 8844 KEMPSTER, H. L. Quality of market eggs can be improved. World's Poultry Sci. J. 6:210-211. July/Sept.1950. 47.8 W89
- 8845 KEPPEL, G. E. Report on added glycerol in eggs. Assoc. Off. Agr. Chem. J. 33:693-696. Aug.15, 1950. 381 As7
- 8846 KOHLS, R. L. What's the outlook for broilers? Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1950:6\*7. Sept.20,1950. 275.29 In2Em
- 8847 LORENZ, F. W. Application of "black light." Amer. Egg & Poultry Rev. 11(10):16,18. Oct.1950. 47.8 Am38
- Use of ultraviolet light in egg-candling.
- 8848 LOVELAND, J. E. Proper packaging can help your sales. Broiler Growing 1(2):12,31-32. Oct.1950. 47.8 B782
- 8849 MCADAMS, J. H. Whipping the big tom problem. Checkerboard News 1950:12-13. Nov./Dec. 1950. 389.78 C41
- Turkey marketing.
- 8850 MCNALL, F. J. Report on eggs and egg products. Assoc. Off. Agr. Chem. J. 33:690-692. Aug.15,1950. 381 As7
- 8851 MASON, E. E. Poultry and eggs. Iowa Dept. Agr. B. 94-J.:34-41. 1950. 2 Io9B
- The industry.
- 8852 MASTERSON, F. H. IBCA [International Baby Chick Association] keeps gaining in industry support. Broiler Growing 1:52,54-55. Sept.1950. 47.8 B782
- 8853 MEHL, P. Needed: small refrigerating units. Mktg. Activ. 13(9):13-16. Sept.1950. 1.942 A8M34
- Losses in eggs due to lack of cooler storage in the country egg buying stations, North Central States.
- 8854 MILLER, H. I. What lies ahead? USDA price-support program prospects. Amer. Egg & Poultry Rev. 11(10):54-57. Oct.1950. 47.8 Am38
- Effect on egg industry.
- 8855 MILLS, J. Send only well-packed birds to Smithfield. Poultry [London] 107:212. Sept.12,1950. 47.8 P869
- 8856 MITCHELL, L. C. Report on fat by acid hydrolysis in eggs. Assoc. Off. Agr. Chem. J. 33:699-703. Aug.15,1950. 381 As7
- 8857 MOLENAAR, A. A steady course. (In Dutch.) Pluimveeteelt 3(10):6. Apr.28,1950. 47.8 P722
- The poultry industry in the Netherlands.
- 8858 MOORE, J. S. Take precautions for quality eggs. Fla. Poultry & Dairy J. 16(10):6,10,23. Oct.1950. 47.8 F66
- 8859 MORRIS, T. B., and PARRISH, C. F. Customer's choice in buying eggs. N. C. Agr. Col. Ext. C. 352, 7 p. Apr.1950. 275.29 N811
- 8860 MORTHLAND, J. F. Producción comercial de gansos. Agr. Austral 18:321-325. July 1950. 9.3 Ag842
- 8861 MUELLER, R. A. Why not sell a California turkey? Calif. Turkey News 22:27,60. Sept.1950. 47.28 C12
- Advertising.
- 8862 NAJJAR, H. Preserving eggs. (In Arabic.) Syria. Ext. Serv. C.50,8 p. May 1950. 22.5 Sy8
- English summary.
- 8863 NATIONAL EGG PRODUCTS ASSOCIATION. List of regular members and associate members. Chicago,1950. 5 p. 225 N2125
- 8864 NATIONAL POULTRY, BUTTER & EGG ASSOCIATION. Report on the 44th annual convention, September 30-October 2, 1950, Sherman Hotel, Chicago. Butchers' Advocate 128(16):14-23,35. Oct.18,1950. 286.85 B97
- 8865 NORMAN, T. What's ahead for poultrymen. Jewish Farmer 43:100,103. Sept.1950. 6 J54
- 8866 NUGENT, G. R. H. Critical position of the poultry industry. Brit. Farmer 27:5. Sept.30,1950. 281.8 B77
- 8867 OLSON, C. D. Responsibility for interior quality. Calif. Turkey News 22:23,56-57. Sept.1950. 47.28 C12
- Quality in the poultry and egg industries.
- 8868 OTTE, A. W., WOLK, J., and MCNALLY, E. H. Comparison of rate of deterioration of storage and non-storage eggs. Amer. Egg & Poultry Rev. 11(9):82,84. Sept.1950. 47.8 Am38
- 8869 PAARLBERG, D. Case against price supports. Amer. Egg & Poultry Rev. 11(10):8,10,53,59. Oct.1950. 47.8 Am38
- Effect on egg industry.
- 8870 PARNELL, E. D., BUTLER, O. D., and COVER, S. Storage tests with unwrapped frozen fryers. Tex. Agr. Expt. Sta. Prog. Rpt. 1270,6 p. Sept.4,1950. 100 T31P
- 8871 PLAXICO, J. S. An economic study of the market turkey enterprise, Shenandoah Valley, 1948. Va. Agr. Expt. Sta. B. 440,35 p. July 1950. 100 V81S
- 8872 QUINTO, F. P. DE. Conservación de huevos. Agricultura [Madrid] 19:370-373. Aug.1950. 15 Ag84
- 8873 RICHARD, O., and MOHLER, A. Die mikrobiologie der "heu-eier." Eier-, Wild-, Geflügel- u. Honig-Markt 2(37):9-14. Ref. Sept.15,1950. 280.38 E13
- 8874 RISHER, F. W. What is an egg? For Sale, Want & Exch. B. 2(11):1. Oct.2,1950. 280.38 F74
- Analysis and quality.
- 8875 RÖMER, R. R. Hünnerbrü bringet den menschen gutt vernunft. Eier-, Wild-, Geflügel- u. Honig-Markt 2(34):4-5. Aug.24,1950. 280.38 E13
- Folklore.
- 8876 ROOS, M. J. Duck eggs and paratyphoid. (In Dutch.) Pluimveeteelt 3(16):2. July 21,1950. 47.8 P722
- 8877 ROSENBERG, M. M., and MURATA, K. Poultry marketing studies. I. Factors in the preparation of fryers and roasters for market. Hawaii. Agr. Expt. Sta. C. 34,12 p. Oct.1950. 100 H313
- 8878 ROTZEL, H. Eight years of poultry publicity in the schools of New England. Amer. Egg & Poultry Rev. 11(10):64-66. Oct.1950. 47.8 Am38
- 8879 SCHUBKEGEL, M., JR. How to cut egg breakage. Esso Farm News 9(5):18-19. Sept./Oct.1950. 6 Es72
- 8880 SCHULZ, T. Geflügelzählung 1949. Deut. Wirtgeflügelzucht. 2:276-277. Aug.26,1950. 47.8 D483



- 9891 SCRUGGS, C. G. New egg dollars can come with better marketing. *Prog. Farmer, Tex. Ed.* 65(10): 134-135. Oct. 1950. 6 T311
- 9892 SEARLS, E. N. Marketing of dressed chickens by New York poultrymen, 1946-47. N. Y. (Cornell) Agr. Expt. Sta. B. 863, 40 p. Sept. 1950. 100 N48C
- 9893 SENS. Neuer beitrag zum thema enteneier; bericht über eine Hollandreise im juni 1950. Eier-, Wild-, Geflügel- u. Honig-Markt 2(35):4-5;(36):7. (Cont.) Aug. 31, Sept. 7, 1950. 280.38 E13
- 9894 SMYTHE, C. A. Egg pulping unit gaining favor with Australian breakers. *Amer. Egg & Poultry Rev.* 11(9):38, 40. Sept. 1950. 47.8 Am38
- 9895 SNYMAN, P. S. The veterinary inspection of table poultry. *So. African Vet. Med. Assoc. J.* 21:65-69. June 1950. 41.8 So8
- Diseases leading to condemnation.
- 9896 TAYLOR, W. R. Midwesterners can grow commercial broilers. (Condensed.) *U. S. Egg & Poultry Mag.* 56(10):14-16, 28, 30. Oct. 1950. 286.85 Eg3
- 9897 TERMOHLEN, W. D. The poultry grading and inspection program of the United States Department of Agriculture. Washington, U. S. Prod. & Mktg. Admin., 1950. 17 p. 1.944 D2T27
- Statement before convention of the U. S. Livestock Sanitary Association, Phoenix, Nov. 2, 1950.
- 9898 U. S. BUR. OF AGRICULTURAL ECONOMICS. Georgia 1949 commercial broiler production highest in history of State. Athens, 1950. 2 p. 1.941 H2C73
- 9899 U. S. BUR. OF AGRICULTURAL ECONOMICS. Turkey crop [Texas], 1950. Austin, 1950. 2 p. 1.945 H8T845
- 9900 U. S. BUR. OF ANIMAL INDUSTRY. Chickens in NPIP hatchery supply flocks and their distribution by States and varieties 1941-42, 1946-47, 1948-49 and 1949-50. U. S. Bur. Anim. Indus. A. H. D. 69, rev., 6 p. Oct. 1950. 1.9 An52AH
- 9901 U. S. PRODUCTION AND MARKETING ADMIN. Inner packing materials for egg cases; the result of studies conducted in 1948-49. Washington, 1950. 40 p. 1.956 P86In6
- 9902 U. S. PRODUCTION AND MARKETING ADMIN. Wholesale poultry and egg markets in 30 cities, by N. G. Paulhus. Washington, 1950. 160 p. 1.956 M343W623
- 9903 VAN DAME, H. C. Report on the acidity of ether extract in eggs. *Assoc. Off. Agr. Chem. J.* 33:696-699. Aug. 15, 1950. 381 As7
- 9904 VERVENNE, B. VAN A. Egg marketing at present. (In Dutch.) *Pluimveeteelt* 3(19):1-2. Sept. 1, 1950. 47.8 P722
- 9905 VERVENNE, B. VAN A. Prospects for the poultry industry. (In Dutch.) *Pluimveeteelt* 3(4):2. Feb. 17, 1950. 47.8 P722
- 9906 WARREN, C. C. Broiler industry is a young giant. *Broiler Growing* 1:15, 68-69. Sept. 1950. 47.8 B782
- 9907 WARREN, C. C., and TERMOHLEN, W. D. The poultry industry grows up. *Everybody's Poultry Mag.* 55(9):10, 44-45. Oct. 1950. 47.8 F213P
- 9908 WHITE, M. How to sell a chicken. *Mktg. Activ.* 13(9):6-7. Sept. 1950. 1.942 A8M34
- Also in *Butchers' Advocate* 128(12):13. Sept. 20, 1950. 286.85 B97
- 9909 WHITLOCK, J. P. Are your egg rooms properly protected? Commercial use of ozone in food preservation especially under high humidity conditions is gaining more widespread acceptance and utilization. *Amer. Egg & Poultry Rev.* 11(9):122, 124. Sept. 1950. 47.8 Am38
- 9900 WOOD, G. B. Boom or bust in '51? *Broiler Growing* 1(3):14, 46-47. Nov. 1950. 47.8 B782
- 9901 ZUCKERMAN, B. H. Live poultry in New York. *Amer. Egg & Poultry Rev.* 11(9):70-72. Sept. 1950. 47.8 Am38
- 9904 BLACKWELL, R. F., BLOW, C. M., and FLETCHER, W. P. Some problems involved in the grading and testing of natural rubber. 3. (Abs.) *India Rubber World* 122:685. Sept. 1950. 305.8 In2
- 9905 BLOW, C. M. Provisional proposals for methods of testing to be adopted to grade crude rubber to technical specifications. (Abs.) *Rubber Res. Inst. Malaya. J.* 12:259. June 1950. 78.9 R824J
- 9906 BLUM, G. W., SHELTON, J. R., and WINN, H. Safe limits of sample thickness for rubber oxidation and aging studies. (Abs.) *India Rubber World* 122:687-688. Sept. 1950. 305.8 In2
- 9907 BRAAK, H. R. La production de la gutta-percha et la plantation de Tjipetir. *Rev. Gén. du Caoutchouc* 27:505-508. Sept. 1950. 305.8 R32
- Partial translation in English, p. 537-538.
- 9908 CAMARA, A. DE A. Cooperative organization of rubber. (In Portuguese.) *Coop [Bahia]* 9(78):15-19. May 15, 1950. 280.28 C7842
- Brazil.
- 9909 COMPAGNON, P., and TIXIER, P. Sur une possibilité d'améliorer la production d'hévéa brésilien par l'apport d'oligo-éléments. *Rev. Gén. du Caoutchouc* 27:525-526. (To be cont.) Ref. Sept. 1950. 305.8 R32
- English summary, p. 535.
- Chemistry.
- 9910 COOPER, D. H. Factors influencing the creep and stiffness of vulcanized rubbers. (Abs.) *India Rubber World* 122:687. Sept. 1950. 305.8 In2
- 9911 DALFSEN, J. W. VAN. The relations between the modulus and the other mechanical properties of rubber vulcanized in the capax test mixture. *Arch. v. de Rubbercult.* 27:177-195. Ref. June 1950. 78.8 Ar2
- 9912 DAVIDSON, L. R. Report on the development of centralized manufacture of smoke sheet rubber by smallholders. *Rubber Res. Inst. Malaya. J.* 12:266-271. June 1950. 78.9 R824J
- 9913 ESSEN, W. J. VAN. Rapid determination of the content of dirt in rubber. (Abs.) *Rubber Res. Inst. Malaya. J.* 12:262. June 1950. 78.9 R824J
- 9914 FABRE, R. La déclaration du Sénateur Johnson et la position de l'industrie américaine dans la préparation du nouveau Rubber Act. *Rev. Gén. du Caoutchouc* 27:501-504. Sept. 1950. 305.8 R32
- 9915 FLETCHER, W. P. Some problems involved in grading and testing natural rubber. (Abs.) *Rubber Res. Inst. Malaya. J.* 12:258. June 1950. 78.9 R824J
- 9916 GEE, G. Some problems involved in the grading and testing of natural rubber. 4. (Abs.) *India Rubber World* 122:685. Sept. 1950. 305.8 In2
- 9917 GILS, G. E. VAN. A method to accelerate the creaming process of Hevea latex. *Arch. v. de Rubbercult.* 27:139-151. June 1950. 78.8 Ar2
- 9918 GODEFROY, B. Les caoutchoucs spécifiés. Marseille. Inst. Colon. Cahiers Colon. (n.s.) 1950:263-266. Aug./Sept. 1950. 286.8 M35
- Grading.
- 9919 HAAN-HOMANS, L. N. S. DE. On the presence of an esterase in latex of Hevea brasiliensis. (Abs.) *India Rubber World* 122:680. Sept. 1950. 305.8 In2
- 9920 HAKEN, W. VON. Kautschuk, ein barometer der weltspannungen. *Chem.-Ingen.-Tech.* 22:355. Aug. 28, 1950. 384 C428
- 9921 HAYES, K. W. Stability of compounded latex. *Inst. Rubber Indus. Trans.* 26:223-234. Oct. 1950. 305.9 In7
- Includes discussion.
- 9922 HERBETTE, F. The shortcomings of rubber strategic stockpiling. *Rev. Gén. du Caoutchouc* 27:536-537. Sept. 1950. 305.8 R32
- 9923 KENDALL, C. E. Some aspects of peroxide decomposition and its relation to rubber degradation. (Abs.) *India Rubber World* 122:686. Sept. 1950. 305.8 In2
- 9924 KOCH, H. P. Applications of spectroscopy to vulcanization studies. (Abs.) *India Rubber World* 122:688. Sept. 1950. 305.8 In2
- 9925 MCCOLM, E. M. Natural rubber versus synthetic. *Rubber Res. Inst. Malaya. J.* 12:254-257. June 1950. 78.9 R824J
- 9926 MANN, C. E. T. General review of natural rubber production. *Rubber Res. Inst. Malaya. J.* 12:215-220. June 1950. 78.9 R824J

#### RUBBER AND RUBBER SUBSTITUTES

- 9902 ALPHEN, J. VAN. Mise au point sur les théories de la vulcanisation par le soufre. *Rev. Gén. du Caoutchouc* 27:529-534. Ref. Sept. 1950. 305.8 R32
- English summary, p. 535.
- 9903 BAKER, H. C., and PHILPOTT, M. W. Coagulation with sulphuric acid. (Abs.) *Rubber Res. Inst. Malaya. J.* 12:265. June 1950. 78.9 R824J



8927 MATEJKA, F. W. L'industrie autrichienne du caoutchouc. Rev. Gén. du Caoutchouc 27:518-519. Sept. 1950. 305.8 R32

English summary, p. 538-539.

8928 MILLER, R. F., and WITTIG, W. L. Radio-frequency heat in the rubber industry. I. India Rubber World 123:51-56. Oct. 1950. 305.8 In2

8929 MORETTI CANEDO, M. Leyenda del palo borracho. Mundo Agr. 2(15):32. Aug. 1950. 9 M92

8930 NEEF, J. C. DE. Identification of rubber coagulated with too much sulphuric acid. (Abs.) Rubber Res. Inst. Malaya. J. 12:263-264. June 1950. 78.9 R824J

8931 NEWTON, R. G., and others. Aspects of the problem of obtaining uniform Malayan rubber. (Abs.) India Rubber World 122:686. Sept. 1950. 305.8 In2

M. W. Philpott, H. Fairfield-Smith, and W. G. Wren, joint authors.

8932 NIELSEN, L., BUCHDAHL, R., and CLAVER, G. Determination of the molecular structure of rubbers by physical methods. (Abs.) India Rubber World 122:680. Sept. 1950. 305.8 In2

8933 POULTON, F. C. J., and TUNNICLIFFE, M. E. Determination of copper in rubber latex. Inst. Rubber Indus. Trans. 26:235-245. Oct. 1950. 305.9 In7

8934 RIOU, M., and PIBAROT, R. Contribution à l'étude de quelques propriétés physico-chimiques des solutions de caoutchouc chloré. Rev. Gén. du Caoutchouc 27:596-600. Ref. Oct. 1950. 305.8 R32

English summary, p. 602.

8935 ROBERTS, K. C. The constituents of hevea latex. VII. Studies of the dependence of the composition of latex on various factors operative in the plantations. Rubber Res. Inst. Malaya. J. 12:278-290. Aug. 1950. 78.9 R824J

8936 RUBBER RESEARCH INSTITUTE OF MALAYA. Proceedings of the meeting to discuss the quality and grading of natural rubber, September 12th-14th, 1949 in Kuala Lumpur. Rubber Res. Inst. Malaya. J. 12:212-277. June 1950. 78.9 R824J

8937 SCHLESINGER, W., and LEEPER, H. M. Cis and trans-polyisoprenes from a single plant species. (Abs.) India Rubber World 122:685-686. Sept. 1950. 305.8 In2

8938 SHELTON, J. R., and COX, W. L. Evaluation of a volumetric oxygen-absorption test for rubber aging. (Abs.) India Rubber World 122:688. Sept. 1950. 305.8 In2

8939 SODEN, A. L., and WAKE, W. C. Deterioration of rubber under the influence of light and dry and moist heat. (Abs.) India Rubber World 122:687. Sept. 1950. 305.8 In2

8940 VERMA, M. R. Why synthetic rubbers? Rubber India 2(6):5-8. July 1950. 305.8 R829

8941 VIAL, A. Les fills au latex. Rev. Gén. du Caoutchouc 27:594-595. Oct. 1950. 305.8 R32

English summary, p. 602.

## SEEDS

8942 ALTSCHUL, A. M. Chemical treatments of seeds to prevent heating and deterioration during storage. Cotton Gin & Oil Mill Press 50:A2-A3, A6, A8, A10. Ref. Jan. 8, 1949. 304.8 C822

8943 ANGELL, G. N. Seed insurance. Oreg. Farmer 73:707,744. Oct. 5, 1950. 6 Or32

Seed certification.

8944 BILLINGS, R. R. Better seed at lower cost is 1951 outlook. East. Feed Merchant 1(10):22,44. Oct. 1950. 389.78 Ea7

8945 BODDY, H. Isolation paying off for San Juan Islands [Washington] in seed production. Wash. Farmer 75:713,748. Oct. 5, 1950. 6 R151

Grass and legume seed industry.

8946 BRIGHT, W. J. What it takes to be a successful seedsmen. Grain & Feed J. Consolidated 105(8):21-22. (Excerpts.) Oct. 25, 1950. 298.8 G762

8947 BROWN, G. F. Britain aims for quality seed. Crops & Soils 3:7-9. Oct. 1950. 6 W55

8948 CANADA. BUR. OF STATISTICS. AGRICULTURE DIV. Forage and vegetable seed, 1949 production and value. Ottawa, 1950. 4 p. 253 St22Fo

8949 CHERNOMAZ, P. A., and TOLOCHENKO, I. A. Sorting biologically valuable seeds by the throwing method. (In Russian.) Selekt. i Semen. 17(8):68-71. Aug. 1950. 61.9 Se5

8950 EDLER, G. C. The grass and legume seed outlook for 1951. Washington, U. S. Bur. Agr. Econ., 1950. 10 p. 1.941 A22Ed5

Address at annual meeting of the American Society of Agronomy, Cincinnati, Nov. 3, 1950.

8951 EGGINK, H. J. Preliminary investigation on the occurrence of weed seeds in rogued seed plots. (In Dutch.) Netherlands. Landbouwlichtingsdienst. Maandbl. 7:304-313. July 1950. 12 N383M

8952 HOPKINS, D. Grass seeds for everywhere. Oreg. Dept. Agr. Agr. B. 167:25-26. Sept. 1950. 2 Or3

The industry in the Grande Ronde Valley, Oregon.

8953 HYER, E. A., BECKER, M. H., and MUMFORD, D. C. The economics of grass seed production in the Willamette Valley, Oregon. Oreg. Agr. Expt. Sta. B. 484, 56 p. Sept. 1950. 100 Or3

8954 KOZLOVSKI, M. I. Sorting improved oat seeds. (In Russian.) Selekt. i Semen. 17(8):62-68. Aug. 1950. 61.9 Se5

8955 MACKAY, J. W. Perspectives de production de semences fourragères au Canada. Agriculture [Montreal] 7:132-136. Summer 1950. 7 Ag82

8956 NILSSON-LEISSNER, G. Marketing of seeds; changes in the law. (In Swedish.) Lantmannen 34:622-623. Aug. 12, 1950. 11 L234

8957 SCHROEDER. Die grossen fortschritte des saabaues seit 1945. Landwirtsbl. Weser-Ems 36:726. Sept. 6, 1950. 18 L2345

8958 SHALL, G. M. Bureaucratic style of management. (In Russian.) Selekt. i Semen. 17(7):6-12. July 1950. 61.9 Se5

Failure of Saratov Regional Office of Agriculture to extend the use of certified seeds on collective farms.

8959 SMIRNOV, B. M. Cleaning wheatgrass seed from sedge and couch grass. (In Russian.) Selekt. i Semen. 17(8):73. Aug. 1950. 61.9 Se5

8960 SOLIMAN, G., and SALEH, W. Constituents of the seeds of Corchorus olitorius, L. I. Chem. Soc. J. 1950:2198-2200. Aug. 1950. 382 L84J

8961 U. S. PRODUCTION AND MARKETING ADMIN. Rules and regulations under the Federal Seed Act. Issued March 1950, reprinted with amendments, July 1950. U. S. Prod. & Mktg. Admin. Serv. & Regulat. Announc. 156,51 p. July 1950. 1 M34S

## SUGAR AND SIRUPS

AHLFELD, H. The situation of the world sugar industry at the beginning of new international negotiations. F. O. Licht's Sugar Inform. Serv. 82(6):1-3. June 20, 1950. 66.8 L61

8963 AHMAD, Q. The effect of juice inlet design on evaporator efficiency. Sugar 45(10):35. Oct. 1950. 65.8 F11

Sugar.

8964 ALBON, N., and GROSS, D. The chromatographic determination of raffinose in raw sugars. Analyst 75:454-457. Sept. 1950. 382 An1

8965 ANDREAE, B. Der zuckermarkt als problem der gegenwart. Zucker 3:330-334. Aug. 1, 1950. 65.8 Z82

8966 BALLOU, F. H. New Taber beet sugar factory. Engin. J. 33:791-792,812. Sept. 1950. 290.9 En3

8967 BINKLEY, W. W., and WOLFROM, M. L. Chromatographic fractionation of cane blackstrap molasses and of its fermentation residue. Amer. Chem. Soc. J. 72:4778-4782. Oct. 1950. 381 Am33J

8968 BLACKBURN, F. H. B. Some thoughts on trends in the yield of sugar cane in Trinidad. Brit. West Indies Sugar Assoc. Proc. Mtg. Sugar Technol. 1949:68-78. 65.9 B775

Includes discussion.

8969 BLICKE, H. Nochmals: schnitzeltrocknung und wärmewirtschaft. Zucker 3:254-255. June 15, 1950. 65.8 Z82

8970 BRADSHAW, C. L. W. A modified Reich process of molasses treatment in the distillery. Brit. West Indies Sugar Assoc. Proc. Mtg. Sugar Technol. 1949:101-102. 65.9 B775

8971 BUDNY, A. V., and SIZIKOVA, T. S. Beet pumps. (In Russian.) Sakh. Promysh. 24(6):19-29. June 1950. 65.8 Sa2

In transporting sugar beets for processing.



- 8972 CAMERON, E. J. Report on microbiological methods for detecting and estimating thermophilic bacteria in sugar. Assoc. Off. Agr. Chem. J. 33:744-745. Aug.15,1950. 381 As7
- 8973 COX, W. S. Report on artificial sweeteners. Assoc. Off. Agr. Chem. J. 33:688-690. Aug.15,1950. 381 As7
- 8974 DUPUY, C. D. Molasses graining and the three boiling system. Sugar J. 13(5):54-56. Oct.1950. 65.8 Su391
- 8975 DYER, B. W., & CO. Sugar markets wild. Natl. Bottlers' Gaz. 69(822):20. Aug.1950. 390.8 N21
- 8976 FONSECA, M. M. E. Continuous and direct refining of cane sugar by the vacuum permanent contact ion exchange process. (In Portuguese.) Rev. de Quim. Indus. 19(219):14-18. July 1950. 385 R324
- 8977 GARCIA MENDEZ, J. B. Puerto Rico and the Sugar Act of 1948. Sugar J. 13(5):29-30. Oct.1950. 65.8 Su391
- 8978 GIORDANO, B. Beet culture and the sugar industry in Calabria. (In Italian.) Humus 6(7):28. July 1950. 16 H88
- 8979 GLADKII, F. S. Nepreryvnoe brozhenie pri pererabotke svesklosakharnoi patoki na spirt [Continuous fermentation of sugar beet molasses for alcohol]. Moskv. Pischepromizdat, 1949. 31 p. 390 G45
- 8980 GOBIS, L. Researches on the mechanism of the formation of citric acid in the course of alcoholic fermentation. (In Italian.) Ann. della Sper. Agr. (n.s.):4: 569-578. 1950. 16 An76  
English summary.  
Fermentation of sugar.
- 8981 GORBACH, P. P. On sugar-beet chips. (In Russian.) Sakh. Promysh. 24(6):29-31. June 1950. 65.8 Sa2  
In sugar manufacture.
- 8982 GORDON, G. G. The progress and prospects of our sugar industry. Sugar News 26:336-337. July 1950. 65.9 Su36  
Philippines.
- 8983 GRANZER, H. Gegenwärtiger stand der auslaueverfahren. Zucker 3:321-325. Aug.1,1950. 65.8 Z82  
Sugar beets.
- 8984 GRAU, R. R. News of the Cuban sugar industry. Sugar 45(10):37-39. Oct.1950. 65.8 F11
- 8985 HAAS, R. Die verpackung von zucker in 50 kg papiersäcke. Zucker 3:282-283. July 1,1950. 65.8 Z82
- 8986 HEINZ, L. Versuche zur bestimmung des für die hefe verwertbaren zuckers in der melasse. Versuchsanst. f. das Gärungsgewerbe. Mitt. 1950:68-71. May/June 1950. 390.08 V67
- 8987 HOCKETT, R. C. Sugar—a versatile resource; variety of ways in which sugar is used in industry and home outlined. Sugar Molecule 4(3):14-16. July 1950. 65.8 Su325
- 8988 HORAK, W. Erfahrungen bei der errichtung von garanlagen in melassebrennereien. Chem.-Ingen.-Tech. 22:327-329. Aug.14,1950. 384 C428
- 8989 HOUGH, L., JONES, J. K. N., and WADMAN, W. H. Quantitative analysis of mixtures of sugars by the method of partition chromatography. V. Chem. Soc. J. 1950:1702-1706. July 1950. 382 L84J
- 8990 HUBER, M. L. Sugar: the current situation in the light of new developments. Ice Cream Trade J. 46 (8):36,88-89. Aug.1950. 389.8 Ic2
- 8991 ĀKIMOV, A. F. Turbo-defecator-saturator. (In Russian.) Sakh. Promysh. 24(6):38-39. June 1950. 65.8 Sa2  
In sugar manufacture.
- 8992 INDIA. DEPT. OF AGRICULTURE. DIRECTORATE OF ECONOMICS AND STATISTICS. Indian sugar statistics. Delhi, 1950. 66 p. 269.5 Ag82Is
- 8993 JENSMA, F. Sugar beet growing in Canada. (In Dutch.) Landb. Wereldnieuws 5:323-326. Sept.1,1950. 12 L237
- 8994 KIESSLING, C. Les nouvelles centrifuges à haut rendement de l'industrie sucrière suédoise. Sucr. Franç. 91:177. Aug.1950. 65.8 J82
- 8995 KILMARTIN, E. J., and HOOK, A. VAN. Heats of crystallization of sucrose from water solutions. Sugar 45(10):34. Oct.1950. 65.8 F11
- 8996 KITCHEN, G. B. Half a million tons in bulk. Sugar 45(10):25-27. Oct.1950. 65.8 F11  
Bulk handling of sugar in Hawaii.
- 8997 LYON, H. L. Sugar—the foundation of all progress on earth. (Extr.) Austral. Sugar J. 42:341,343, 345. Aug.15,1950. 65.8 Au7
- 8998 MCFARLANE, J. R. Modern trends in distillery practice. Internatl. Sugar J. 52:304-305,307. (To be cont.) Ref. Sept.1950. 65.8 In8
- 8999 MAIDEN, A. M. Substitutes for sugar. Food Mfr. 25:459-461. Nov.1,1950. 389.8 F736
- 9000 MAYORAL, J. E., and CINTRON, G. Sugar house practice in Puerto Rico. Sugar J. 13(5):49-50. Oct.1950. 65.8 Su391
- 9001 MEEL, C. J. VAN. The French sugar beet problem. (In Dutch.) Landb. Wereldnieuws 5:282-286. Aug.1,1950. 12 L237  
Various problems of the industry.
- 9002 MOORE, S., and HALLBECK, R. E. Determination of sugar in beets; a rapid modification of the Sachsle Docte method. Sugar 45(10):36,39. Oct.1950. 65.8 F11
- 9003 MOTA, F. La industria azucarera española; pasado, presente y futuro de sus relaciones con la cubana. Cuba Econ. y Financ. 25(295):25-27. Oct.1950. 286.8 C892
- 9004 NIKOLAEV, P. V. On boiling and crystallization of second molasses. (In Russian.) Sakh. Promysh. 24(6):37. June 1950. 65.8 Sa2
- 9005 100 FACTS on sugar. London, Naldrett, 1950? 32 p. (Smatterbook, 31) 65 On2
- 9006 ORTH, A. Beschränkung des zuckerrübenanbaus? Württemb. Wechnbl. f. Landwirt. 117:842. Sept.9, 1950. 18 W96
- 9007 PABON, H. E., and SALDANA DÁVILA, F. Factory efficiency—a dilemma to the mill operator in Puerto Rico. Sugar J. 13(5):31-36. Oct.1950. 65.8 Su391
- 9008 PAGUIA, R. L. Facts about Philippine sugar. Sugar News 26:407-408. Aug.1950. 65.8 Su393
- 9009 PRATT, O. E., and WIGGINS, L. F. The identification of the amino acids. Brit. West. Indies Sugar Assoc. Proc. Mtg. Sugar Technol. 1949:29-38. 65.9 B775  
Includes discussion.
- 9010 QUEENSLAND CANE GROWERS' ASSOCIATION. Twenty-third annual conference, edited verbatim report of proceedings held at Mackay on 7th, 8th, 9th, 10th and 13th March, 1950. Toowoomba, 1950. 125 p. 281.3659 Q3
- 9011 RAMIREZ, J. C. The El Mante refinery in the national sugar industry. Tex. U. Inst. Latin-Amer. Studies 9:179-193. 1950. 280 T31  
Mexico.
- 9012 THE REAL sugar shortage. Fortune 42(4):75. Oct.1950. 110 F772
- 9013 ROHMER. Betteraves et sucre en Alsace. Bas-Rhin Agr. 5:459. Sept.23,1950. 14 B29
- 9014 SANCHE, J., and CARPENA, O. Cambiadores iónicos. II. (Aplicaciones industriales). Ion 10:447-457. Ref. Aug.1950. 385 Io6  
In the sugar industry.
- 9015 SCHMIDT, N. O. Molasses granulation for low grade boiling at Usine Ste. Madeleine. Brit. West Indies Sugar Assoc. Proc. Mtg. Sugar Technol. 1949:100. 65.9 B775
- 9016 SHALAMOV, P. G. Regulating the time for centrifuging first molasses. (In Russian.) Sakh. Promysh. 24(6):31-32. June 1950. 65.8 Sa2  
Sugar manufacture.
- 9017 SOFRONUK, L. P. Drying of sugar. (In Russian.) Sakh. Promysh. 24(6):32-34. June 1950. 65.8 Sa2  
In sugar manufacture.
- 9018 TEATINI, D. Contribution à l'étude de la cuisson et des appareils à cuire. (Sum.) Sucr. Franç. 91:178. Aug.1950. 65.8 J82
- 9019 ULMER, R. C. Controlling evaporator deposits. Sugar 45(10):30-31,45. Oct.1950. 65.8 F11  
Sugar.
- 9020 VAZQUEZ, E. A. Fabricación simultánea de azúcar, papel y alcohol. Tierra Libre (ser.2)14(5):10-13. June 1950. 8 T443
- 9021 WEBER, J. Analysenmethoden von melassen. Zucker 3:326-330. Aug.1,1950. 65.8 Z82



9022 WEISS, E. F. Hinweise zur saftgewinnung, reinigung und klärung. Zucker 3:251-254. June 15, 1950. 65.8 Z82

Sugar beets.

9023 WESTERN BEET SUGAR PRODUCERS. CONSUMER SERV. DEPT. Let's talk about sugar. What's New Home Econ. 15(3):155-170. Nov. 1950. 321.8 W55

9024 WESTERN STATES MACHINE CO. Avantages des turbines à grande vitesse dans l'industrie sucrière. (Sum.) Sucr. Franç. 91:175-176. Aug. 1950. 65.8 J82

9025 WESTERN STATES MACHINE CO. Le serpent Stevens le réchauffage des masses cuites. (Sum.) Sucr. Franç. 91:173-174. Aug. 1950. 65.8 J82

9026 WEYGAND, F., and LÖWENFELD, R. Ein neuer zuckerabbau. Chem. Ber. 83:559-563. Oct. 1950. 384 B45

9027 WIGGINS, L. F. The chemical aspects of the sugar cane. Caribbean Comn. Monthly B. 3: 131-134. Nov. 1949. 280.9 C19

9028 WIGGINS, L. F. Sugar cane wax. Brit. West. Indies Sugar Assoc. Proc. Mtg. Sugar Technol. 1949:24-28. 65.9 B775

9029 WIGGINS, L. F. The utilization of sucrose. Sugar Res. Found. Technol. Rpt. Ser. 7,336 p. Oct. 1950. 65.9 Su34T

9030 WIKLUND, O., ANDERSSON, G., and ASK, W. Étude de l'épuration des jus de betteraves. Sucr. Franç. 91:193-201. Sept. 1950. 65.8 J82

9031 WILLIAMS, J. F. The development of the cane sugar industry in British Guiana. Timehri 29:9-15. Aug. 1950. 9.6 T48

9032 ZHIZHINA, R. G. Ion gauge for determining pH [in sugar manufacture]. (In Russian.) Sakh. Promysh. 24(6):34-36. June 1950. 65.8 Sa2

## TOBACCO

9033 ARDITTI, R. La nicotine. Rev. des Tabacs 25:27-28. (Cont.) Autumn 1950. 69.8 R325

9034 BORBOLLA Y ALCALÁ, J. M. R. DE LA., and CORTES MUNOZ, V. El método sintético en el estudio químico de la combustibilidad del tabaco. III. Spain. Inst. Nac. de Invest. Agron. B. 10(22):159-185. June 1950. 105.6 Sp14  
English summary.

9035 BRUMBT, D. Die entwicklung des elsässischen tabakbaues. Bas-Rhin Agr. 5:460. Sept. 23, 1950. 14 B29

9036 CONOVER, A. G. The outlook for tobacco for 1951. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2C762

Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.

9037 CORNELI, L. New horizons in control of mus-tiness in tobacco. (In Italian.) Agricoltore [Perugia] 7 (15/16):2. Aug. 1/31, 1950. 281.8 Ag822

9038 COSTA'S tobacco directory of the United States, 11th edition, 1949-1950. New York, 1949. 304 p. 225 C823

9039 DITTMAR, H. F. K. The volatility of nicotine during water distillation. (In Portuguese.) Soc. Bras. de Quím. Rev. 19:3-11. Jan./June 1950. 385 So14

9040 DURAND, L., JR., and BIRD, E. T. The burley tobacco region of the Mountain South. Econ. Geog. 26: 274-300. Oct. 1950. 278.8 Ec7

9041 FORMOSO, V. The NATOCO [National Tobacco Corporation]: its aims and functions. Agr. & Indus. Life 12(8):16, 26-27. Aug. 1950. 25 Ag8  
Philippines.

9042 FOURRIER, G. G. De l'influence du tabac sur l'art en Extrême-Orient. Rev. des Tabacs 25:25-26. Autumn 1950. 69.8 R325

9043 GIRAUD, E. Le 34<sup>e</sup> Congrès National des Planteurs de Tabacs. Rev. Internatl. des Tabacs 25:157-161. (Cont.) Aug./Sept. 1950. 69.8 R324

9044 HUNT, R. Dress up tobacco for the market. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 65(10):17, 131. Oct. 1950. 6 P945K

9045 KOENIG, P. Schäden und schädlinge an taba-ken und tabakwaren in handels- und industrie-lagern. Tabak-Forsch. 1950(4):1-2. Sept. 1950. 69.8 T116  
Molds and insects.

9046 LUYCKX, E. L'économie du tabac en Belgique. Cour. du Tabac 4(9):5-8, 11-12, 15-18, 20-21, 23-24, 26. Sept. 1950. 286.89 C83

9047 SACAY, F. M., TAGORDA, Q. T., and FERNAN-DEZ, G. B. An economic and social study of tobacco farming in Isabela. Philippine Agr. 33:88-96. Oct./Dec. 1949. 25 P542

9048 SCHMID, K. Untersuchungen über die günstig- sten bedingungen für die heisslufttrocknung von Virgin Gold A. Tabak-Forsch. 1950(4):3-7. Sept. 1950. 69.8 T116

9049 UNION OF SOUTH AFRICA. TOBACCO IN- DUSTRY CONTROL BOARD. Report for the year ended 30th April, 1950. Pretoria, 1950. 38 p. 280.2699 So8

9050 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Cigar-wrapper tobacco--types 61 and 62. Hearings, 81st Cong., 2d sess. on H. R. 7154, H. R. 7218, and H. R. 7222, July 13 and 14, 1950. Washington, 1950. 121 p.  
Marketing.

9051 U. S. PRODUCTION AND MARKETING ADMIN. Tentative crop grades for unsorted Havana seed tobacco of type 52. Washington, 1950. 13 p. 1.956 T55T26

9052 U. S. PRODUCTION AND MARKETING ADMIN. Tobacco inspection, market news, and demonstration services. Rev. Washington, 1950. 16 p. 1.9 Ec714Tim

9053 WAHL, R. Chemie der pektine und vorkommen des pektins im tabak. Tabak-Forsch. 1950(4):7-8. Sept. 1950. 69.8 T116

## MISCELLANEOUS PRODUCTS

9054 AKAMINE, E. K., and SAKAMOTO, H. I. Pre-venting the fading of Vanda (Joaquim) flowers with bro- minated charcoal. Hawaii. Agr. Expt. Sta. Prog. Note 61,6 p. Sept. 1950. 100 H313P

9055 BALL, M. Haste to the hopping. Farmer & Stock -Breeder 64:2549. Aug. 29, 1950. 10 F228  
History of the hop industry in Great Britain.

9056 BANKS, A., and EDDIE, G. C. The quick- freezing of kippers. Mod. Refrig. 53:246-248, 273. Sept. 1950. 295.8 M72

9057 BARGER, W. R. Altitude tests with flowers; effect of simulated air cargo flights. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 224,17 p. May 8, 1950. 1.9 P77Ht

9058 BLACKMON, G. H. The ornamental horticul- tural industry in Florida. Fla. U. Bur. Econ. & Business Res. Econ. L. 9(6), 4 p. May 1950. 280.9 F663

9059 CHAN, A. P. Floriculture research—a factor in stabilizing the industry. Canad. Florist 45(19):6, 8-9, 26. Oct. 2, 1950. 80 C163

9060 COOK, A. H., and HARRIS, G. The chemistry of hop constituents. I. Humulinone, a new constituent of hops. Chem. Soc. J. 1950:1873-1876. July 1950. 382 L84J

9061 DIECKMANN, W. Planned production based on facts. Florists' Exch. 115(17):18, 55. Oct. 21, 1950. 80 F666  
Flowers.

9062 EICHINGER, J. Der hopfenbau in Bayern. Bayern in Zahlen 4:320-323. July 1950. 265 B34

9063 ESCALANTE, E. La casi totalidad del alcanfor natural se produce en la Isla de Formosa. Managua. Cám. Nac. de Com. e Indus. B. (ser. 4) 15(163):40. July 1950. 287 M316

9064 FIEGER, E. A. Problems in handling fresh and frozen shrimp. Food Technol. 4:409-411. Oct. 1950. 389.8 F7398

9065 FRESNEAU, M. Estudio sobre el vetiver español. Ion 10:405. July 1950. 385 Io6  
Analysis.

9066 LAURIE. What's ahead? Canad. Florist 45 (18):6-7, 26. Sept. 15, 1950. 80 C163  
The florist industry in U.S.A.

9067 LUX, C. La production houblonnière alsacien- ne. Bas-Rhin Agr. 5:461. Sept. 23, 1950. 14 B29

9068 RUIGOMEZ VELASCO, V. El lúpulo en Guipúz- coa. Agricultura [Madrid] 19:324-329. July 1950. 15 Ag84  
The industry.

9069 SAINT-QUENTIN, M. Sachons tirer parti des joncs. Rustica 23:725, 737. Aug. 27, 1950. 14 R92  
Utilization.

9070 SHERER, S. J., and STOHR, E. Shipping flowers by air. 5. Florists' Rev. 107(2762):30-31. Nov. 2, 1950. 80 W41



- 9071 SHEWAN, J. M. Preservation of fish by the use of nitrite ice. *Nature* [London] 166:613-614. Oct. 7, 1950. 472 N21
- 9072 VERMEULEN, C. L'humulone et le vieillissement du houblon. *Petit J. du Brasseur* 58:694. Sept. 8, 1950. 390.8 P44
- 9073 WYE COLLEGE. DEPT. OF HOP RESEARCH. Annual report, 1949. London, 1950. 54 p. 70.9 W972
- 9074 YOUNG, O. C. Quality of fresh and frozen fish and facilities for freezing, storing and transporting fishery products. *Food Technol.* 4:447-450. Nov. 1950. 389.8 F7398

### AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

References on farm structures and rural housing are classified with Agricultural Engineering.

#### GENERAL

- 9075 ABEL, W. Agrarpolitik. Salzgitter, Freymark, 1949. 48 p. (Der Leitfaden der Volkswirtschaftslehre. Bd. 16) 281.175 Ab3  
Economic aspects of German agriculture.
- 9076 AGRICULTURAL ECONOMICS SOCIETY. Report of conference held at Lincoln and All Souls Colleges, Oxford, 2nd July to 5th July, 1948. *Agr. Econ. Soc. J. Proc.* 8:71-175. Apr. 1949. 281.9 Ag8
- 9077 ALBERTINI, M. Economy of East-Central Europe. (In Italian.) *Mercanzia* 5(7):22-28. July 1950. 287 B635  
Agricultural.
- 9078 BRANNAN, C. F. To light other lamps. (Condensed.) *Farm Policy Forum* 3(11):25-28. Nov. 1950. 281.8 F2274  
On the Point Four Program.
- 9079 CERNOWSKY, W. Härteausgleich in rückstellungsfällen. *Burgendländische Bauernbündler* 3(15):4-5. Aug. 10, 1950. 19 B91
- 9080 CHICAGO. UNIVERSITY. OFF. OF AGRICULTURAL ECONOMICS RESEARCH. Review of research in agricultural economics (including aspects of politics and government and of planning) at the University of Chicago. Chicago, 1950. 35 p. 281.12 C431
- 9081 DEGRAFF, H. F. Agricultural-industrial relations. *Va. Farm Econ.* 124(sup.), 8 p. Aug. 1950. 275.29 V813
- 9082 FORSTER, G. W., and LEAGER, M. C. Elements of agricultural economics. New York, Prentice-Hall, 1950. Ref. 441 p. 281 F772E
- 9083 JOLY, R. L. Economie agricole algérienne en 1950. *Rev. Internat. des Prod. Colon.* 25:157-158. Aug./Sept. 1950. 286.8 R326
- 9084 MCCORMICK, C. J. Foresight from hindsight. Washington, U. S. D. A. Off. Sec., 1950. 12 p. 1.91 A2M132  
Talk at meeting of Southwest Indiana Implement Dealers, Vincennes, Ind., Oct. 17, 1950.  
Farm prosperity and its relationship to industry.
- 9085 MÁKI, A. On the valuation of benefits connected with agriculture in the application of the Second Compensation Act. (In Finnish.) *Suomen Maataloustiet. Seura. Maataloustiet. Aikakausk.* 22:47-62. 1950. 20 Su7M  
English summary.
- 9086 MONTANARI, V. Industry in agriculture and the functions of technicians. (In Italian.) *Agr. delle Venezie* 4:219-230. Aug. 1950. 16 Ag826
- 9087 MURPHY, E. W. The farmer sets the pattern for prosperity index in Idaho. *Coast Banker* 85:122, 146. Sept. 1950. 284.8 C63
- 9088 MYERS, W. I. Economic future is more obscure than ever before. (Sum.) *Ark. Agr. Col. Ext. Ark. Agr. Ext. Econ.* 9(10):1-2, 4. Oct. 1950. 275.29 Ar4Ark
- 9089 NETHERLANDS. CENTRAAL PLANBUREAU. Centraal economisch plan 1950 [Central economic plan, 1950]. 's-Gravenhage, 1950. 52 p. 280.9 N383Ad
- 9090 NIEMANN, J. Ermessensmissbrauch; der staatliche ermessensmissbrauch in der wirtschaft. *Eler-, Wild-, Geflügel- u. Honig-Markt* 2(36):1-2. Sept. 7, 1950. 280.38 E13  
Germany.
- 9091 NORTON, L. J. Some observations on world economics as affecting United States farmers. *N. Y. Agr. Col. Farm Econ.* 175:4494-4497. July 1950. 280.8 C812
- 9092 SCHULTZ, T. W. How shall we manage our economy? *Farm Policy Forum* 3(11):5-9. Nov. 1950. 281.8 F2274
- 9093 SWITZERLAND. VOLKSWIRTSCHAFTSDEPT. Die schweizerische kriegswirtschaft, 1939/1948. Bern, Eidg. Zentralstelle für Kriegswirtschaft, 1950. 1131 p. 280.178Sw62
- 9094 U. S. LIBRARY OF CONGRESS. SUBJECT CATALOGING DIV. Classification. Class H: Social sciences. Ed. 3. Washington, 1950. 614 p. 243.1 Un3H
- 9095 WELCH, F. J. The South's future. *Va. Farm Econ.* 124:16-20. Aug. 1950. 275.29 V813
- 9096 WIBBERLEY, G. P. Changes in agriculture and their effect on the countryside. *Roy. Inst. Chartered Surveyors. J.* 30:296-314. Oct. 1950. 282.9 C38J  
Includes changes in land use, farm buildings, and rural population.
- 9097 WYLLIE, J. A thirty years' retrospect. *Agr. Econ. Soc. J. Proc.* 8:85-105. Apr. 1949. 281.9 Ag8  
Includes discussion.  
Development of research in agricultural economics.
- 9098 ZILLHARDT. Handwerk und landwirtschaft in enger verbundenhelt. *Landwirtsbl. Weser-Ems* 36:718. Sept. 6, 1950. 18 L2345

### AGRICULTURAL FINANCE

- 9099 FRANCE. DIRECTION DE LA PRODUCTION AGRICOLE. Bilan des activités financées sur le Fonds National de Progrès Agricole en 1949. France. Min. de l'Agr. *Rev. Etudes & Monog.* 1950:161-169, 171-173, 175. Aug. 1950. 281.8 F84
- 9100 GARLOCK, F. L., and others. The balance sheet and current financial trends of agriculture, 1950. U. S. D. A. *Agr. Inform. B.* 26, 46 p. Oct. 1950. 1 Ag84Ab  
A. S. Tostlebe, R. J. Burroughs, H. C. Larsen, H. T. Lingard, L. A. Jones, and M. E. Wallace, joint authors.
- 9101 MURPHY, E. W. The farmer sets the pattern for prosperity index in Idaho. *Coast Banker* 85:122, 146. Sept. 1950. 284.8 C63
- 9102 ROLEY, R. Farmers need advice now as never before; in the mad scramble by advertisers for the rich farm market plum, let's protect the farmer and his roll against any tendency towards unwise and unnecessary spending. *Natl. Co. Agent & Vo-Ag Teacher* 6(10):8-10, 24-25. Oct. 1950. 275.28 N213
- 9103 STANDARD RATE AND DATA SERV. Consumer markets, 1950-1951. Chicago, 1950. 882 p. 280.38 Sr1  
Includes farm data.
- 9104 WALL, N. J. Savings and debt position of farmers. Washington, U. S. Bur. Agr. Econ., 1950. 8 p. 1.941 F2W15  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.

#### Credit

- 9105 AGRICULTURE credit in Germany. (In Dutch.) Raiffeisen-Bode 33(3):6-8. (Concl.) Sept. 1950. 284.28 R13
- 9106 ANGERER. Anschaffung von berechnungsanlagen. *Hannoversche Land- u. Forstwirt. Ztg.* 103:501. May 20, 1950. 18 H194  
Financing.
- 9107 ARNOLD, C. R. The production credit system: how cooperative? Washington, U. S. Farm Credit Admin., 1950. 8 p. 1.955 P2Ar6  
Talk at American Institute of Cooperation, Stillwater, Okla., Aug. 24, 1950.
- 9108 BANCO DE CREDITO DA BORRACHA. Relatório do exercício de 1949 [Report for 1949]. Pará, 1950. 161 p. 284.9 B2224
- 9109 BANCO NACIONAL DE CREDITO AGRICOLA Y GANADERO. Informe que presenta el consejo de administración a la asamblea general de accionistas, sobre las actividades desarrolladas durante el ejercicio de 1949. Mexico, 1950. 65 p. 284.29 B2292  
Library has also report for 1948. Mexico, 1949. 84 p. 284.29 B2292



- 9110 BISHOP, J., JR. Why farmers use non-bank sources of credit and how their business may be re-covered. *Tarheel Banker* 29(4):5-6, 19-22. Oct. 1950. 284.8 T17
- 9111 BRAGINSKIĬ, L. V. Praktika kreditovaniĭ stroitel'stva kolkhoznnykh elektrostansii [Credit practices in construction of collective farm electric stations]. *Moskva, Gosfinizdat*, 1950. 26 p. 335 B734
- 9112 CHANDRAMOULI, K. Origin and development of L. M. [land mortgage] banks in Madras State. *Madras J. Co-op.* 42:86-93. Aug. 1950. 280.28 M26
- 9113 CRUZ, R. Crédito agrícola en el tercer período de sesiones de la Comisión Económica para la América Latina. *Cám. de Com. e Indus. de Tegucigalpa. B.* 4 (44):21-25. July 1950. 287 T23
- 9114 DÜBI, P. Die durchführung der landwirtschaftlichen entschuldung. *Agrarpolit. Rev.* 6:449-459. July/Aug. 1950. 281.8 Ag824
- Switzerland.
- 9115 DUGGAN, I. W. Co-op credit in step with fast moving agriculture. *News Farmer Coop.* 17(7):4, 18. Oct. 1950. 166.2 N47
- 9116 FONDARD, L. Le crédit agricole. *Bouches du Rhône Agr.* 23(1033):24. Sept. 1, 1950. 14 B662
- 9117 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. AGRICULTURAL LAND SERV. Financing improvements to land and buildings. *Gt. Brit. Agr. Land Serv. Fixed Equip. Farm. L.* 2, 6 p. June 1950. 10 G7944
- Mortgage credits.
- 9118 GUIMARÃES, W. Gaucho Raiffeisen banks. (In Portuguese.) *Coop [Bahia]* 9(79):15-16. June 1950. 280.28 C7842
- Brazil.
- 9119 HEIM, Der landwirtschaftliche kredit—10 fragen. *Württemb. Wehnl. f. Landwirt.* 117:734-735. Aug. 5, 1950. 18 W96
- 9120 HEUBERGER, J. 50 Jahre Raiffeisen in der Schweiz. *Agrarpolit. Rev.* 6:477-487. July/Aug. 1950. 281.8 Ag824
- 9121 HOULLIER, E. Le financement de l'habitat rural. *Défense Agr. de la Beauce et du Perche* 47:348-349. Sept. 16, 1950. 14 D36
- 9122 ISLEIB, J. R. Credit aids adjustment to changing agriculture. *Ext. Serv. Rev.* 21:168-169. Oct. 1950. 1 Ex892Ex
- 9123 KAYSER, G. Der crédit agricole im Elsass und in Lothringen seit der befrelung. *Bas-Rhin Agr.* 5:456. Sept. 23, 1950. 14 B29
- 9124 LAND AND AGRICULTURAL BANK OF SOUTH-ERN RHODESIA. Report for the year ended 31st December, 1949. *Salisbury*, 1950. 9 p. 284.29 L233
- 9125 LAUERBACH, H. Stand und entwicklung der landwirtschaftlichen verschuldung in Bayern. *Bayern in Zahlen* 4:379-381. Aug. 1950. 265 B34
- 9126 MENON, M. S. Rural indebtedness in recent years. *India. Dir. Econ. & Statis. Agr. Situation India* 5:266-273. July 1950. 281.9 In23
- 9127 MIQUEL Y CUSCÚ, J. La movillización de los valores del capital mueble agrícola, la reserva de excedentes de trigo y el crédito prendario (warrant agrícola). *Ceres [Valladolid]* 15(170):10. Aug. 1, 1950. 15 C33
- Spain.
- 9128 MORGANDO, A. Agricultural credit is inefficient. (In Italian.) *Glor. di Agr.* 60:275-276. Sept. 3, 1950. 16 It1G
- Italy.
- 9129 MYERS, W. I. Farm credit. (Sum.) *Burroughs Clearing House* 35:40. Oct. 1950. 284.8 B94
- 9130 NORTON, L. J. Is this a good time to go into debt? *Successful Farming* 48(10):33, 64-65. Oct. 1950. 6 Su12
- Includes the price situation and outlook.
- 9131 NOWELL, R. I. The use of credit for farm and home improvement. *Va. Farm Econ.* 124:9-15. Aug. 1950. 275.29 V813
- 9132 ROBINSON, W. T. Simplified GI farm loans. *Banking* 43(4):66, 114. Oct. 1950. 284.8 Am3
- 9133 ROUSSIAUX, P. Pour construire et améliorer l'habitat. *J. de la France Agr.* 6:1181, 1192. Oct. 27/Nov. 2, 1950. 14 J829
- Credit.
- 9134 SCHEER, C. D. The financing of the horticultural holding. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13:566-573. Aug./Sept. 1950. 86 N384
- English summary.
- 9135 SEVERSON, H. Helping farmers get on their feet. *Banking* 43(4):56-57. Oct. 1950. 284.8 Am3
- Assistance by banks in farm management.
- 9136 STALEY, T. W. A feed industry problem: the growing importance of credit. *Feedstuffs* 22(41):9, 12, 16. Oct. 14, 1950. 286.81 F322
- 9137 U. S. FARM CREDIT ADMIN. Farm mortgages recorded, 1949. *Washington*, 1950. 23 p. 1.955 A2F228
- 9138 WILTSCHEK, G. Landwirtschaftlicher pächter- bzw. betriebskredit. *Landwirtschaft* 1950:230. Aug. 1950. 19 L235
- Germany.

## Income

- 9139 ALLRED, W. M. Twenty years with the same salary. *N. Y. Agr. Col. Farm Econ.* 175:4530-4531. July 1950. 280.8 C812
- Highway superintendents in rural area.
- 9140 HAMILTON, W. E. A real income. (Condensed.) *Farm Policy Forum* 3(11):14-17. Nov. 1950. 281.8 F2274
- 9141 KOFFSKY, N. M. Income of farm people from nonfarm sources. *Washington, U. S. Bur. Agr. Econ.*, 1950. 3 p. 1.941 A2K82
- Address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.
- 9142 PINGREY, H. B. Farm income possibilities in the Pecos Valley, New Mexico. *N. Mex. Agr. Expt. Sta. Press B.* 1042, 34 p. Sept. 1950. 100 N465
- 9143 SCHWART, R. B., and FALCONER, J. I. Estimated gross cash income to Ohio farmers from the sale of agricultural products and from Government payments, by counties, 1949. *Ohio. Agr. Expt. Sta. Dept. Agr. Econ. & Rur. Sociol. Mimeog. B.* 220, 15 p. Oct. 1950. 281.9 Oh32
- 9144 UNITED NATIONS. STATISTICAL OFF. National income statistics of various countries 1938-1948. *Lake Success, N.Y.*, 1950. 249 p. (United Nations P. 1950. XVII.2.) 284.9 Un37
- Includes agricultural income.
- 9145 U. S. BUR. OF AGRICULTURAL ECONOMICS. Income size distributions for Illinois farm-operator families; a study of problems encountered in estimating the distribution of farms by income level, by R. F. Daly. *Urbana, U. Ill., Col. Agr.*, 1949. 60 p. 281.023 Un3

## Inflation

- 9146 DIGNAN, E. Agriculture and inflation. *Mountain States Banker* 35(40):8, 20-22, 24-26. Oct. 23, 1950. 284.8 M86
- 9147 HAMILTON, W. E. How can we control inflation. *Nation's Agr.* 25(10):7-9, 19, 21. Nov. 1950. 280.82 B89
- 9148 KLINE, A. B. Preventing inflation. *Farm Policy Forum* 3(10):13-16. Oct. 1950. 281.8 F2274

## Insurance

- 9149 BRANNAN, C. F. Crop insurance can fill the gap. (Sum.) *Farm Policy Forum* 3(10):23-24. Oct. 1950. 281.8 F2274
- 9150 CHASTAIN, J. V. Social security for farm workers. *Eggsaminer* 27(9):14. Sept. 1950. 286.85 Eg32
- 9151 COMAN, E. S. How social security amendments affect citrus industry. *Calif. Citrog.* 36:32-33. Nov. 1950. 80 C125
- 9152 DAIRY INDUSTRY INSURANCE AGENCY. Thirteenth annual report and balance sheet for the year ended 30th April, 1950. *Wellington*, 1950. 4 p. 284.69 D14
- 9153 GALUSHA, H. D., JR. The Social Security Act as applicable to ranch employers. *Mont. Wool Grower* 24(11):13, 56-57. Nov. 1950. 45.8 M762
- 9154 HARVEY, G. R. New social security law interpreted for farmers. *Hoosier Farmer* 35(10):11. Oct. 1950. 280.82 H76
- 9155 KROLLPFEIFFER, H. Tierarzt und tier-versicherung. *Deut. Tierärztl. Wchmsch.* 57:224-225. July 15, 1950. 41.8 D482
- 9156 LOPEZ-ARANDA, A. E. Salario base a efectos de indemnización por accidentes y enfermedades. *Agricultura [Madrid]* 19:339-341. July 1950. 15 Ag84
- 9157 MARSAL, J. Les assurances sociales des salariés des professions agricoles. *Motorisation Agr.* 5:417, 419-420. July/Aug. 1950. 58.8 M85
- France.



- 9159 MARTIN, C. W. Federal crop insurance. *Mutual Ins. B.* 37(9):6-8. Sept.1950. 284.68 M983
- 9159 MATHIAS, P. E. Benefits for farm workers. *Ill. Agr. Assoc. Rec.* 28(10):25. Oct.1950. 6 IL62  
Benefits under the Social Security Act.
- 9160 MUNSHI, R. A. Our national rural insurances plan. *Poona Agr. Col. Mag.* 41:110-119. Aug.1950. 22 P79  
Crop insurance.

9161 PESCE, G. A problem to solve in the field of unified agricultural contributions. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 64:8. Sept.23,1950. 281.8 Ag3

9162 POFFENBERGER, P. R., and BOUMA, J. C. Farm insurance in Maryland. *Md. Agr. Expt. Sta. B.* A-54,31 p. Sept.1950. 100 M368

9163 UHLIRS, J. Die land- und forstwirtschaftlichen sozialversicherungsträger im jahre 1948. I. Landarb.-Arch. 5:311-328. July 1950. 283.8 L23  
Austria.

9164 UHLIRS, J. Das neue arbeitslosenversicherungsgesetz. VIII. Landarb.-Arch. 5:302-307. July 1950. 283.8 L23  
Austria.

9165 U. S. FEDERAL CROP INSURANCE CORPORATION. Opportunity knocks! U. S. D. A. PA-134,4 p.-folder. Aug.1950. 1 Ag84Pro  
Crop insurance.

9166 ZIMMERMANN, H. Warum hagelversicherung? *Hannoversche Land- u. Forstwirt. Ztg.* 103:596. June 24, 1950. 18 H194

#### Taxation

9167 AGNEW, A. Tips on taxation. XVI-XVII. *Westralian Farmers Co-op Gaz.* 19:25,27-28,133-134. July-Aug.1950. 280.28 W522

XVI, Deductions you can claim in your income tax returns; XVII, Are all receipts from wool taxable?

9168 BEEBE, R. W. The farmer and the net operating loss. *Taxes* 28:1095-1097. Nov.1950. 284.58 T195

Income taxes.

9169 BIDAUD, A. Dégrevements fiscaux pour pertes de récoltes. *Rev. de Lég. Agr.* 3:115-116. July/Aug.1950. 281.8 R325  
France.

9170 CRIPE, R. W. Farmers with complete farm records need not fear their tax collectors. *Hoosier Farmer* 35(10):7. Oct.1950. 280.82 H76

9171 DENMARK. STATISTISKE DEPT. Ejendoms- og personbeskatningen i skattearet 1949/50. Impôts sur les immeubles et sur les personnes 1949/50. Denmark. *Statis. Dept. Statis. Meddel. (ser.4)* 142(1),233 p. 1950. 257.1 St2M

Table of contents and some tables also in French.

Includes rural communities.

9172 FONT Y SOLSONA, J. El catastro, antiguo sistema recaudatorio. *Trab. Nac.* 1572:731-732. Aug. 1950. 280.8 T672

9173 FULTON, D. Taxation as related to land use. *Mont. Wool Grower* 24(11):22,47-48. Nov.1950. 45.8 M762

9174 GARCIA BADELL, J. G. Una pequeña historia de la legislación española sobre las tasas de precios de los cereales. *Tolva* 8:499-503. July 1950. 59.8 T58T

9175 GORSE, A. Les revenus des fermages. *Unité Paysanne* 5(252):1,6. Sept.23,1950. 14 Un3  
Estimates for taxation in France.

9176 GRAVAS, J. Les réclamations en matière d'impôts directs. *Rev. de Lég. Agr.* 3:150-153. (Concl.) Sept.1950. 281.8 R325  
France.

9177 HALLECKER. Die dritte steuerreform nach dem einkommensteueränderungsgesetz vom 29. April 1950. *Zucker* 3:260-262. June 15,1950. 65.8 Z82  
Germany.

9178 HART, S. Livestock and ranch income tax problems. *Mont. Stockgrower* 22(9):8-11. Sept.15,1950. 49 M76

9179 KUEHN. Zum gesetz zur änderung des bier-steuergesetzes. *Brauwelt* 1950:848-850. Oct.5,1950. 390.8 B732  
Germany.

9180 MALEZIEUX, R. Le régime fiscal des sociétés d'exploitation agricole. *Rev. de Lég. Agr.* 3:146-149. Sept.1950. 281.8 R325  
France.

9181 MANZINI, P. More on the livestock tax. (In Italian.) *Not. Agr. [Mantova]* 6(32/33):1. Aug.25,1950. 16 N845  
Italy.

9182 MANZINI, P. The polemic on livestock taxation for 1950. (In Italian.) *Not. Agr. [Mantova]* 6(34):1-2. Sept.1,1950. 16 N845  
Italy.

9183 ROBERTS, A. The right records can ease your tax load. *Poultry Tribune* 56(10):12,29-30. Nov. 1950. 47.8 P8642

9184 SIJTSMA, P. 1950 tax revision and agriculture. I-II. (In Dutch.) *Boer en Tuinder* 4(191):7;(192):8. Sept.16-23,1950. 12 B632  
Netherlands.

Also in *Friesch Landtbl.* 47:559. Sept.15,1950. 12 F91

9185 STRUNZ, H. Die besteuern der nichtbuch-führenden weinbaufreibenden. *Österr. Bauernbündler* 6 (32):3. (To be cont.) Aug.12,1950. 19 Os7

Also in *Wien. Bauernbündler* 3(17):4. (Concl.) Aug.18, 1950. 19 W632

9186 STRUNZ, H. Die moststeuer; wann muss obst-wein versteuert und wann angemeldet werden? *Österr. Bauernbündler* 6(37):4. Sept.16,1950. 19 Os7  
Also in *Wien. Bauernbündler* 4(19):4. Sept.16,1950. 19 W632

9187 STRUNZ, H. Steuererleichterung bei elementarschäden. *Burgenländische Bauernbündler* 3(15):3. (Concl.) Aug.10,1950. 19 B91

9188 STRUNZ, H. Der steuerfreie haustrunk. *Wien. Bauernbündler* 3(20):6. Sept.30,1950. 19 W632  
Wine.

9189 STRUNZ, H. Die steuerpauschallierung 1949 für nichtbuchführende gärtner. *Österr. Bauernbündler* 6 (34):3. Aug.26,1950. 19 Os7

Also in *Gartenbauwirtschaft [Wien]* 1950:173-174. Aug.10,1950. 80 G1936

9190 TAYLOR, R. H. Know and guard your cooperative. *Calif. Turkey News* 22:17,55-56. Sept.1950. 47.28 C12

Taxation.

9191 TSCHIRITSCH. Einkommen- und umsatzsteuer für 1949. *Kärntner Bauer* 100:277-279. Aug.10,1950. 19 K14

#### AGRICULTURAL LABOR AND WAGES

9192 ABRAMOV, V. A permanent production brigade on collective farms—fundamental form of artel work management. (In Russian.) *Voprosy Ekon.* 1950(6):3-15. June 1950. 280.8 V89

9193 ALEKSANDROV, L. Opyt raboty traktornykh brigad po chasovomu grafiku [Results of tractor brigade work by hourly charts]. Moskva,Gos. Izd-vo Selkhoz Lit-ry,1950. 31 p. 283 AL22

9194 ALEKSEEV, A. Result of planning and standardization of expenditures for tractor brigades. (In Russian.) *Mashino-Traktornaya Sta.* 10(5):12-15. May 1950. 58.8 M11

At machine-tractor stations.

9195 ASTBURY, A. K. Estudiantes dedicados a las faenas del campo. *Ceres [Valladolid]* 15(170):14-15. Aug.1,1950. 15 C33

Vacation labor.

9196 AOWNER, M. Bitter sugar; the sugar on the table comes at the cost of "stoop labor." *Commonweal* 53:111-113. Nov.10,1950. 280.8 C735  
Sugar beet labor.

9197 BERGER, F. Mehr jugendliche in der landwirtschaft. *Allgäuer Bauernbl.* 18:479. Aug.24,1950. 18 AL53

9198 BLOCHL, J. Abschlussworte zu den lohnverhandlungen. *Oberösterr. Landwirtztg.* 22(35):1. Aug.30, 1950. 19 Ob23

9199 BOOKOUT, B. R. Easier dairy chores. *Mich. Milk Messenger* 32(5):3-4. Sept.1950. 44.8 M582

9200 BORIN, K. High labor productivity on a combine. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):7-10. June 1950. 281.8 K83



- 9201 BREDIUK, N. N. Sila pochasovogo grafika [Effectiveness of an hourly chart]. Moskva, Moskovskii Rabochii, 1950. 45 p. (Iz Opyta Novatorov Kolkhoznoho Proizvodstva) 283 B742  
Farming efficiency.
- 9202 CANNON, W. Y. Arrange your labor early: make the working conditions attractive. U & I Cult. 10(2): 16. Aug. 1950. 66.8 U12
- 9203 DUCOFF, L. J. Migratory farm workers in 1949. U. S. D. A. Agr. Inform. B. 25, 20 p. 1950. 1 Ag84Ab
- 9204 DUCOFF, L. J. Outlook for farm manpower and farm wages. Washington, U. S. Bur. Agr. Econ., 1950. 7 p. 1.941 A2D85  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.
- 9205 ELAGIN, I. N. More extensive utilization of supplementary payment of labor in the livestock industry. (In Russian.) Sotsialist. Zhivotnovod. 12(5):83-88. May 1950. 49 So71
- 9206 ESPINOSA POVEDA, A. Las relaciones laborales en el campo. Madrid, Artes Gráficas Mag., 1949. 180 p. 283 Es6
- 9207 FARM PLACEMENT CONFERENCE, CHICAGO, 1949. Summary minutes; pre-season planning for interstate farm labor exchange. Chicago, Illinois, February 16-17-18, 1949. Chicago? 1949. 39 p. 283.9 F22
- 9208 GRESS, W. B. Testimony before President's Survey Committee on Migrant Labor. Mountain States Beet Grower 13(9):5,7. Sept. 1950. 280.28 M86
- 9209 GUALAZZI, A. A useless strike. (In Italian.) Agricoltore [Milano] (n.s.) 31(42):1. Oct. 21, 1950. 16 Ag862
- 9210 HEFFERNAN, H. From prunes to nuts to cotton; what can we do—individually and collectively—to help the child of the migrant worker? Natl. Ed. Assoc. U. S. NEA J. 39:500-501. Oct. 1950. 275.9 N21J
- 9211 HOULLIER, F. La main-d'oeuvre nord-africaine et l'agriculture métropolitaine. Agr. Prat. 114: 443-447. Oct. 1950. 14 J82
- 9212 HUDELSON, R. R. Job opportunities and placement in agriculture. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949) 63:145-146. 1950. 4 As7
- 9213 ILLNER, F. Die land- und forstwirtschaftlichen Betriebe mit deputationentlohnung. Bayern in Zahlen 4:318-320. July 1950. 265 B34  
Data by size of farm.
- 9214 KAPLUN, S. To improve work planning in tractor brigades. (In Russian.) Mashinno-Traktornaiâ Sta. 10(5):8-11. May 1950. 58.8 M11  
Machine-tractor stations.
- 9215 KARNAUKHOVA, E. Supplementary payment of labor on [cattle] farms. (In Russian.) Kolkhoz. Proizvodstvo 10(6):15. June 1950. 281.8 K83  
Of Novyi Put' Collective Farm in Molotov Region.
- 9216 MACKENZIE, W. Labor problems in British agriculture. N. Y. Agr. Col. Farm Econ. 175:4517-4519. July 1950. 280.8 C812
- 9217 MERCIER, J. Influence du facteur "travail" sur les prix de revient en agriculture. Cour. Hort. 12: 451-452. Aug. 1950. 80 C834  
Belgium.
- 9218 MIKHEEV, K. T. In regard to a squad system for pruning vineyards. (In Russian.) Vinodel. i Vinograd. SSSR. 10(7):57. July 1950. 95.8 V77  
Work management.
- 9219 MOLLAND, R., and EVANS, G. Scottish farm wages from 1870 to 1900. Roy. Statis. Soc. J. Ser. A, Gen. 113:220-227. 1950. 251 R81J
- 9220 MORELL, M. Aclaración. Rev. del Café 6(3): 21. Aug./Sept. 1950. 8 R3295  
Wages and conditions of laborers on Puerto Rican coffee plantations in the nineteenth century.
- 9221 MORTVEDT, L. Contract work in agriculture. (In Norwegian.) Skog- og Landarb. 1950:117-119. Aug. 1950. 283.8 Sk5
- 9222 NEROVNYI, D. Result of organizing the harvesting work. (In Russian.) Kolkhoz. Proizvodstvo 10(6):5-6. June 1950. 281.8 K83  
On Bol'shevik collective farm in Kharkov Region.
- 9223 BOLENSKIĖ, K. Management and payment of labor on collective farms. (In Russian.) Planovoe Khoz. 1950(4):48-62. July/Aug. 1950. 280.8 P69
- 9224 OS'KIN, A. Work management of the combine assembly. (In Russian.) Mashinno-Traktornaiâ Sta. 10(6):16-20. June 1950. 58.8 M11  
In harvesting crops.
- 9225 ØSTBY-DEGLUM, H. Labor requirements and problems in potato harvesting. (In Norwegian.) Norsk Landbr. 16:363-364. Sept. 29, 1950. 11 N8122
- 9226 PACKMAN, D. J., and JENNINGS, N. Labor requirements and costs of operating field choppers in Oneida County, New York, 1949. N. Y. Agr. Col. A. E. 755,18 p. Sept. 1950. 281.9 C81
- 9227 RAAB, J. Die arbeitsverfassung in der land- und forstwirtschaft. Bayern in Zahlen 4:376-378. Aug. 1950. 265 B34
- 9228 RODDICK, P. M. The time you waste; a Canadian looks at British farming and decides that our single biggest consumption of non-productive man-hours is in maintenance of hedges. Farmers Wk. [London] 33(13):57. Sept. 29, 1950. 10 F2226
- 9229 SAXEBØL, E. Contract work in agriculture. (In Norwegian.) Landbrukstidende 56:567-569. July 19, 1950. 11 L236
- 9230 SCHUMACHER, Zum neuen manteltarif für landarbeiter. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1146-1147. Aug. 24, 1950. 18 L2346
- 9231 SITTERLEY, J. H. Measures of farm work; rates of performance and time requirements for common farm operations and tasks. Ohio. State U. Dept. Agr. Econ. & Rur. Sociol. Mimeog. B. 221, 28 p. Oct. 1950. 281.9 Oh32
- 9232 STREET, A. G. No hands wanted. Farmers Wk. [London] 33(14):49. Oct. 6, 1950. 10 F2226  
Farm labor situation in Great Britain.
- 9233 TUMERMAN, A. On time sheet for work with [tractor] assemblies. (In Russian.) Mashinno-Traktornaiâ Sta. 10(5):16-19. May 1950. 58.8 M11
- 9234 UHLIRS, J. Die landarbeiter im lohnkampf. Landarb.-Arch. 5:289-293. July 1950. 283.8 L23  
Austria.
- 9235 WADSWORTH, V. M. Native labour in agriculture. Rhodesia Agr. J. 47:234-253. May/June 1950. 24 R34
- 9236 WERNE, B. Application of wage-hour law to distributors of fresh fruits and vegetables. Washington, United Fresh Fruit & Veg. Assoc., 1950. 52 p. 283 W492A

#### AGRICULTURE - SITUATION, POLICIES, AND PROGRAMS

- 9237 ABDULLAH, H. A visit to Damongo; progress of agricultural development schemes in the Gold Coast Northern Territories. African World 1950:13-14. Oct. 1950. 286.8 Af8
- 9238 ABRAHAMSON, P. E. R. Bushel vs. acreage allotment. Gleaner 4(spec.ed.):10. Mar. 1950. 6 G472
- 9239 AGOSTINI, E. Agriculture is a serious thing. (In Italian.) Terra [Firenze] 61(32):3. Aug. 6, 1950. 16 T274
- 9240 AGRICULTURAL BUR. OF NEW SOUTH WALES. Twenty-sixth State conference at Hawkesbury Agricultural College, Richmond, 18th-21st July, 1950. Sydney, 1950. 70 p. 23 Ag82S
- 9241 THE AGRICULTURAL situation. Fed. Reserve Bank San Francisco. Mon. Rev. 1949:91-94. Aug. 1949. 284.8 F31S
- 9242 ALABAMA. AGRICULTURAL EXPERIMENT STATION. Agricultural opportunities and problems of the South from the research point of view, by M. J. Funchess. Auburn, 1950. 11 p. (Spec. L.) 100 AL1S
- 9243 ALZINA CAULES, J. El potencial de la producción catalana. Inform. Com. Españ. (ser. 3) 202:790-799. June 1950. 286.8 In3  
Includes agricultural productivity.
- 9244 ANDERSON, C. P. 'Our farm program. (Condensed.) Farm Policy Forum 3(10):19-22. Oct. 1950. 281.8 F2274
- 9245 ARAUJO, I. A. DE. Impressões de a trip to Alentejo and Algarve. (In Portuguese.) Agros [Lisboa] 33:84-93. Mar./Apr. 1950. 15.5 Ag82  
Agricultural.
- 9246 ARRIAGADA HERRERA, J. La agricultura en vecinos y lejanos paises. Campesino [Santiago] 82(7):11, 13, 15. July 1950. 9.3 Sol2



- 9247 ARRUE, A. Necesidad de intensificar la producción agrícola. Inform. Com. Españ. (ser.3)203:960-965. July 1950. 286.8 In3  
Spain.
- 9248 AUSTRIA. BUNDESPRESSEDIENST. Österreichisches Jahrbuch, 21, 1949. Wien, 1950. 449 p. 266 Au72A  
Contains a section on agriculture and forestry.
- 9249 BAILEY, C. W. The four pillars of income. Meat 33(5):206-208. Oct. 1950. 286.85 M464  
Agricultural policy.
- 9250 BANUELOS, M. La iniciación de la agricultura. Ceres [Valladolid] 15(170):7,9. Aug. 1, 1950. 15 C33
- 9251 BAYKOV, A. Agricultural development in the U.S.S.R. Birmingham. U. Dept. Econ. & Inst. U.S.S.R. B. Soviet Econ. Devlpmt. 2,28 p. Ref. Dec. 1949. 280.9 B532
- 9252 BEELER, M. N. Million dollar meeting. Capper's Farmer 61(11):19,47. Nov. 1950. 6 M693  
Pike County, Mississippi, 16-point farm program.
- 9253 BELGIUM. MINISTÈRE DES AFFAIRES ÉCONOMIQUES ET DES CLASSES MOYENNES. SERV. DES ETUDES ET DE LA DOCUMENTATION GÉNÉRALES. L'économie belge en 1949. Bruxelles, 1950. 352 p. 280.9 B412  
Contains a chapter on agriculture.
- 9254 BERACHA, S. Plan for French agriculture. West. Farm Leader 15:309. Oct. 20, 1950. 280.28 W52
- 9255 BERNARDES, N. Regional division of the State of Rio de Janeiro. (In Portuguese.) Brazil. Cons. Nac. de Geog. B. Geog. 7:994-1001. Dec. 1949. 331.9 B73
- 9256 BIGI, F. Agriculture, life of Somaliland. (In Italian.) Africa 5:167-173. Aug. 1950. 280.8 Af2
- 9257 BLACK, J. D. Agricultural programs of United States and Canada. Agr. Inst. Rev. 5(5):43-44, 46. Sept. 1950. 7 Ag8
- 9258 BÖHME, C. Dänische und deutsche Landwirtschaft. Landbote 4(34):6. Aug. 26, 1950. 18 L2336
- 9259 BOIXO DE MÉRITENS, P. DE. La Vallée de l'Ouerha, Maroc. Prog. Agr. et Vitic. 1950:127-136; 220-225. (Concl.) Aug. 20/27-Oct. 1/8, 1950. 14 P94
- 9260 BRANNAN, C. F. Agriculture and national defense. Washington, U. S. D. A. Off. Sec., 1950. 14 p. 1.91 A2B73  
Talk at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 30, 1950.
- 9261 BRANNAN, C. F. Agriculture's role—in war or peace. Washington, U. S. D. A. Off. Sec., 1950. 17 p. 1.91 A2B73  
Address at Iowa State College, Ames, Oct. 19, 1950.
- 9262 BRANNAN, C. F. Farmers in a changing world. Co-op Grain Q. 8(3):63-66. Sept. 1950. 280.28 C7898  
Productive capacity and policy for agriculture.
- 9263 BRANNAN, C. F. Here's your job. Country Gent. 120(10):21,76,78. Oct. 1950. 6 C833  
The agricultural situation and the task of American farmers.
- 9264 BRANNAN, C. F. Hope; an American export. Washington, U. S. D. A., Off. Sec., 1950. 12 p. 1.91 A2B73  
Talk at meeting of Association of Land-Grant Colleges and Universities, Washington, D. C., Nov. 16, 1950.  
Agriculture's part in building a just and lasting peace.
- 9265 BRANNAN, C. F. We can improve living levels through use of our national resources. J. Home Econ. 42:619-621. Oct. 1950. 321.8 J82
- 9266 BRANNAN, C. F. Youth's new frontier. Washington, U. S. D. A. Off. Sec., 1950. 9 p. 1.91 A2B73  
Talk at meeting of Future Farmers of America, Kansas City, Mo., Oct. 10, 1950.  
The role of agriculture in advancing the world's frontier of freedom.
- 9267 BRATTON, C. A. Pointers on legal problems. N. Y. Agr. Col. A. E. 760,9 p. Oct. 1950. 281.9 C81
- 9268 BRITISH COLUMBIA. DEPT. OF FINANCE. A review of resources, production and governmental finances, tenth edition—August 15th, 1950. Victoria, 1950. 45 p. 253.1 F492  
Includes agriculture and forest products.
- 9269 BROOKS, R. P. Georgia in 1950; a survey of financial and economic conditions. Inst. Study Ga. Prob. U. Ga. Monog. 8,33 p. Sept. 1950. 280.9 In762  
Contains data on agriculture and agricultural diversification.
- 9270 CANADA. DEPT. OF AGRICULTURE. INFORMATION SERV. Farming in Canada. Ottawa, 1950. 80 p. 31.2 C167
- 9271 CASTRO SILVA, J. M. Divulgaciones económicas nicaraguenses: agricultura, ganadería, selvicultura y pesca. Managua. Cám. Nac. de Com. e Indus. B. (ser.4) 15(163):25-28. (To be cont.) July 1950. 287 M316
- 9272 CHARBONNEAU, A. Problèmes agronomiques dans la région de Joliette. Agriculture [Montreal] 7:127-131. Summer 1950. 7 Ag82
- 9273 CHIOCCI, A. No longer "well-deserving." (In Italian.) Agricoltore [Perugia] 7(15/16):3. Aug. 1/31, 1950. 281.8 Ag822  
Government aid to farmers.
- 9274 COLON TORRES, R. La agricultura como factor en la batalla de la producción. P. R. Dept. de Agr. y Com. Almanaque Agr. de P. R. 1950:17-24. 8 AL62
- 9275 COSTE, R. Esquisse agricole de l'île Maurice. Agron. Trop. 5:366-383. July/Aug. 1950. 26 Ag86
- 9276 COWDEN, T. K. How farm programs are made. (Condensed.) Farm Policy Forum 3(9):9-12. Sept. 1950. 281.8 F2274
- 9277 DALISAY, A. M. Philippine agriculture at the crossroads. Sugar News 26:427-432. (To be cont.) Aug. 1950. 65.8 Su393
- 9278 DALMASSO, G. Duties of the farmers in the present hour. (In Italian.) Colt. e Gior. Vinic. Ital. 96:215-216. Aug. 15/30, 1950. 16 C72
- 9279 DALMASSO, G. Freedom and control. (In Italian.) Colt. e Gior. Vinic. Ital. 96:247-248. Sept. 30, 1950. 16 C72
- 9280 DAVENPORT, R. W. The duchy of Brannan. Fortune 42(4):81-82, 84-85, 182, 185-186, 188, 190. Oct. 1950. 110 F772
- 9281 DAVIS, L. An agricultural survey of Rensselaer County. N. Y. Agr. Col. Farm Econ. 1/5:4502-4504. July 1950. 280.8 C812
- 9282 DELORME, C. La politique agricole. (Extr.) Unité Paysanne 5(252):3-4. Sept. 23, 1950. 14 Un3  
France.
- 9283 DRINKARD, A. W., JR. Agriculture. In Virginia Academy of Science. James River Project Committee. The James River Basin, p. 335-385. Ref. Richmond, 1950. 138 V812
- 9284 DROUIN, G. L'agriculture dans le Vermont et la note [Canada]. Terre de Chez Nous 22(30):16. Sept. 20, 1950. 7 T27
- 9285 ELIA, E. D'. Production and net product of Italian agriculture in recent years. (In Italian.) Congiuntura Econ. 5:196-202. Aug. 31, 1950. 280.8 C7635
- 9286 ELLIOTT, F. E. Agricultural development and management in the Southeast. Amer. Soc. Farm Mgr. & Rur. Appraisers J. 14:132-139. Oct. 1950. 281.8 Am32
- 9287 FELCOURT, E. DE. Le monde rural dans l'économie moderne. Agr. Prat. 114:401-403. Sept. 1950. 14 J82  
Report of a conference.
- 9288 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. World outlook and state of food and agriculture, 1950. Washington, 1950. 81 p. 389.9 F735St
- 9289 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. DANISH NATIONAL FAO-COMMITTEE. Report to the Food and Agriculture Organization of the United Nations (FAO). Copenhagen? 1949. 78 p. 389.9 F7353Da
- 9290 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. U. S. FAO INTER-AGENCY COMMITTEE. Annual report of the Government of the United States of America to the Food and Agriculture Organization of the United Nations. Washington? 1950. 111 p. 389.9 F7354
- 9291 FORD, E. The South Pacific Commission; extensive crop developments being undertaken. World Crops 2:412-414. Oct. 1950. 281.8 W892  
Agricultural policy.



9292 FORLANI, A. The agricultural heart of Soma-liland. (In Italian.) *Africa* 5:186-188. Aug.1950. 280.8 Af2

9293 FRIESE, H. Landwirtschaftsrecht der ameri-kanischen besatzungszone; kommentar zum Kontrollratsgesetz 45 und zu den durchführungsverordnungen der länder Bayern, Hessen und Württemberg-Baden mit nebenvorschriften. München, Beck, 1949. 265 p. 30.5 F91

9294 GAUSS, W. Gibt es agrarpolitische "zwangs-vorstellungen?" *Müllerei* 3:534-535. Aug.26,1950. 298.8 M91  
Germany.

9295 GLASS, L. S. Agricultural output of Portugal affected by drought last year. *Foreign Trade* 8:588-589. Oct.7,1950. 286.8 C162

9296 GÓMEZ, P. Panamá derrocha imprevisora-mente a un ritmo mayor que las más ricas naciones de la tierra. *Rev. de Agr., Com. e Indus.* [Panama] 8(107):13-15. July 1950. 8 R3291  
Agriculture.

9297 GORZ, G. Landschaft u. landwirtschaft Rhein-hessens. *Landbote* 4(34):3. Aug.26,1950. 18 L2336

9298 GRASSANO, N. DA. A large experiment in land transformation carried out at Ullignano. (In Italian.) *Agr. Ital.* 1:380-383. Aug.1,1950. 16 Ag822  
Rehabilitation of an area.

9299 GT. BRIT. CENTRAL OFF. OF INFORMATION. REFERENCE DIV. A brief economic review of Malaya: 1945/49. London, 1950. 4 p. 280.186 G79  
Includes agriculture and trade.

9300 HABIB, P. C. Canadian agricultural policy. I. *Foreign Agr.* 14:228-231. Oct.1950. 1.9 Ec7For

9301 HALL, D. M. What is a sound program? *Ext. Serv. Rev.* 21:170-171,181. Oct.1950. 1 Ex892Ex

9302 HARVEST and business; a Commercial West Survey. *Com. West* 100(13):9-10,26-27,34-35. (Cont.) Sept.30,1950. 286.8 C733  
Agricultural outlook in various states.

9303 HEIMBURGER, J. J. Your 81st Congress and farm legislation. *Amer. Plant Food Council. J.* 4(3):12-14. July/Sept.1950. 57.8 P692

9304 HELBIG, K. Java, "garten des Ostens?" *Kosmos* 46:346-350. Aug.1950. 474 K842

9305 HEYWOOD, E. Observations in Germany. (Abs.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:208-209. 1950. 4 As7  
Agricultural conditions and extension work.

9306 HJELM, L. Next year's production plan. (In Swedish.) *Lantmannen* 34:639-641. Aug.19,1950. 11 L234  
Sweden.

9307 HORNBERG, P. Report on a study trip to Denmark. (In Norwegian.) *Norske Myrselskap Meddel.* 48:84-96. Aug.1950. 11 N813  
Includes marshland culture.

9308 HORST, M. This business of farming. *Pa. Farmer* 143:201,237. Oct.14,1950. 6 P383  
Agricultural situation in Pennsylvania.

9309 HOWIE, G. W. Manx agriculture since the war. *Gt. Brit. Min. Agr. Agriculture* 57:273-279. Sept.1950. 10 G79J

9310 INSTITUTE OF INTERNATIONAL FINANCE. The economic position of India. *N. Y. U. Inst. Internat. Finance.* B. 168,48 p. Sept.18,1950. 284.9 In7  
Includes agricultural development.

9311 ISENBERG, G. Darstellung der methoden zur erfassung der tragfähigkeit. *Ber. z. Deut. Landesk.* 8:300-324. July 1950. 18 B454  
Productive capacity of agriculture.

9312 JANER, C. O. A study trip in south western France. (In Swedish.) *Lantmannen* 34:659-660. Aug.26, 1950. 11 L234  
Agricultural.

9313 JAPAN. DEPT. OF AGRICULTURE AND FOR-ESTRY. RESEARCH SECT. Economic stabilization pro-grams and present status of agriculture in Japan. Tokyo? 1949. 69 p. 281.183 J27

9314 JENKINS, B. W. Tenants by sufferance. *West. Reserve Farmer* 5(7/8):7. July/Aug.1950. 6 W5292  
Agricultural regulation.

9315 JUGLART, M. DE. Droit rural. Paris, Juris-Classeurs, 1949-50. 2 v. 30.5 J93

9316 KALLBRUNNER. Wie steht es um die heim-ische landwirtschaft? *Österr. Bauernbündler* 6(33):6. Aug.19,1950. 19 Os7

9317 KLINE, A. B. The future of agriculture. *Meat* 33(5):189-191. Oct.1950. 286.85 M464

9318 KOPPEL, C. VAN DE. Ethiopia and its agri-culture. (In Dutch.) (Sum.) *Landbk. Tijdschr.* 62:515-530. July 1950. 105.2 Or3

9319 LACKMANN, H. Die bäuerliche welt in der modernen wirtschaft. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1159-1160. Aug.24,1950. 18 L2346

9320 LEHMANN, H. Das naturräumliche gefüge des oldenburgisch-ostfriesischen geestrückens und der hunte-leda-niederung. *Ber. z. Deut. Landesk.* 8:324-339. July 1950. 18 B454

9321 LÉTOURNEAU, F. Orientation de notre agri-culture. *Foyer Rur.* [Montreal] 9(12):3,14;10(1):6. Sept.-Oct.1950. 7 F83  
Canada.

9322 LEWIS, A. B., PHILLIPS, R. W., and BUCK, J. L. Essential steps in national agricultural improve-ment. *Food & Agr. Organ. United Nations. FAO Developmt. Paper* 3,16 p. Apr.1950. 281.9 F733

9323 LIBRARY ASSOCIATION. COUNTY LIBRAR-IES SECTION. Readers' guide to books on agriculture. London, 1949. 56 p. (Readers' Guide. n. s. 4) 241 L61

9324 MCCORMICK, C. J. Agriculture today and in the great design. Washington, U. S. D. A. Off. Sec., 1950. 9 p. 1.91 A2M132

Talk at George Washington Masonic Temple, Alexandria Va., Sept. 29, 1950.

9325 MCCORMICK, C. J. Gearing up. Washington, U. S. D. A. Off. Sec., 1950. 15 p. 1.91 A2M132

Talk at meeting of South Dakota Farmers Union, Mitchell, S. Dak., Oct. 5, 1950.

The agricultural situation.

9326 MCCORMICK, C. J. The U. S. and agriculture. Washington, U. S. D. A. Off. Sec., 1950. 14 p. 1.91 A2M132

Talk at National Catholic Rural Life Conference, Belleville, Ill., Oct. 16, 1950.

Public programs for agriculture.

9327 MCMILLEN, W. Facts and freedom. (Ex-cerpts.) *Grain & Feed J. Consolidated* 105(8):13-14. Oct.25,1950. 298.8 G762

Also in *Grain & Feed Rev.* 40(3):18. Nov.1950. 280.28 C78

Agricultural policy.

9328 MALIK, A. M. Our agrarian problems. *Kara-chi Com.* 3(9):5-6. Jan.28,1950. 280.8 K14

Outlines a program for agricultural improvement.

9329 MANZINI, P. Preoccupying economic pros-pects for Italian agricultural production. (In Italian.) *Not. Agr.* [Mantova] 6(34):1. Sept.1,1950. 16 N845

9330 MARINUCCI, M. Cyclopes and ants. (In Ital-ian.) *Humus* 6(7):18-20. July 1950. 16 H88

Development of mountain agriculture in Italy.

9331 MAZZOCCHI ALEMANNI, N. Tasks of agra-rian technique in the South. (In Italian.) In Milan. Istitu-to per gli Studi di Economia. Il problema agrario del Mezzogiorno, p. 89-94. Milano, Istituto Editoriale Italia-no, 1950. 281.176 M58

Development possibilities.

9332 MEDICI, G. The agricultural situation. (In Italian.) *Gior. di Agr.* 60:244. July 30,1950. 16 It1G  
Italy.

9333 MÉRITENS, P. DE B. DE. La Vallée de l'Ouerrha, Maroc. *Prog. Agr. et Vitic.* 1950:165-170. (Cont.) Sept.3/10,1950. 14 P94

9334 MESU, F. P. Technical cultural operations now and in the future. (In Dutch.) *Nieuwe Veldbode* 16:834-836. Sept.28,1950. 12 V542N

Various aspects of Netherlands agriculture.

9335 METZ, F. Landwirtschaft und südweststaat. *Bad. Landwirt. Wchnbl.* 117:609-611. Sept.9,1950. 18 B142

Also in *Württemb. Wchnbl. f. Landwirt.* 117:837-839. Sept.9,1950. 18 W96

9336 MEXICO (CITY) BIBLIOTECA BENJAMIN FRANKLIN. Bibliografía de obras sobre agricultura. Mexico, D. F., 1950. 7 p. 241 M572



- 9337 MILAN. ISTITUTO PER GLI STUDI DI ECONOMIA. Il problema agrario del Mezzogiorno; conferenze tenute alla Camera di Commercio di Milano a cura dell'Istituto per gli Studi di Economia e dell'Opera Nazionale per i Combattenti [The agrarian problem of the South; addresses given before the Milan Chamber of Commerce under the Institute for Economic Studies and the National Veterans' Office]. Milano, Istituto Editoriale Italiano, 1950. 117 p. 281.176 M58
- 9338 MILLER, P. E. Some first impressions of Irish agriculture. *Landmark* 7(9):8-9. (To be cont.) Sept. 1950. 281.28 L23
- 9339 MIRA, G. The agrarian problem of the South in its essential lines. (In Italian.) In Milan. Istituto per gli Studi di Economia. Il problema agrario del Mezzogiorno, p. 9-21. Milano, Istituto Editoriale Italiano, 1950. 281.176 M58
- 9340 MOOLANI, M. K. Agriculture and public welfare. *Poona Agr. Col. Mag.* 41:141-143. Aug. 1950. 22 P79
- 9341 MOSTERT, J. F. T. Prosperity comes to the Pongola Valley; cane, cotton, cattle and citrus flourish in one of South Africa's most promising areas. *Farmer's Wk. [Bloemfontein]* 79:10-11, 13. Aug. 16, 1950. 24 F225
- 9342 MYER, D. S. La agricultura en las Américas. *Tractorista* 3(15):8-9. May 1950. 58.8 T676
- Work of the Servicio Cooperativo Interamericano de Producción de Alimentos.
- 9343 NASSIF, E. L'Egypte est-elle surpeuplée? Population 5:513-532. July/Sept. 1950. 280.8 P812
- Discusses agricultural productivity.
- 9344 NAVARRO C., O. El Valle de Anzoátegui. *Agr. Venezol.* 15(143):14. June 1950. 9.95 Ag8
- Agriculture.
- 9345 NOVITSKIĬ, V. A. On the economy of Tuva Autonomous Region. (In Russian.) *Vsesoiuzn. Geog. Obshch. Izv.* 82:247-261. Ref. May/June 1950. 511 L546
- Includes section on agriculture.
- 9346 OGG, W. What should a farm program do? *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 5:42-43. Sept. 1950. 275.28 I094
- 9347 OHIO AGRICULTURAL PRODUCTION ADJUSTMENT COMMITTEE. Desirable production adjustments in Ohio agriculture in 1951. *Ohio. Agr. Expt. Sta. Dept. Agr. Econ. & Rur. Sociol. Mimeog. B.* 219, 25 p. Oct. 1950. 281.9 Oh32
- 9348 OHKAWA, K. International comparisons of productivity in agriculture. *Tokyo. Natl. Res. Inst. Agr. B.* 1, 35 p. Sept. 1949. 22.5 T573
- 9349 PAKISTAN SCIENCE CONFERENCE, 2, KARACHI, 1950. Abstracts. Co-op. & Mktg. Rev. 4:242-253. July 1950. 280.28 C78243
- 9350 PAN AMERICAN UNION. DIV. OF AGRICULTURE AND CONSERVATION. Agriculture in Mexico, by G. Blanco. Washington, 1950. 53 p. Ref. (Amer. Agr. Ser.) 150.9 Am33
- 9351 PARSONS, F. L. The business and agricultural situation. *Com. West* 100(16):7, 23. Oct. 21, 1950. 286.8 C733
- 9352 PEHRSON, J. Farm and plant growth conditions in the Siljan Valley. (In Swedish.) *Lantbrtidskr. f. Dalarna* 1950:117-145. Aug. 1950. 11 L29
- 9353 PFLIMLIN, P. L'agriculture française au carrefour. *Rev. de Lég. Agr.* 3:97-104. July/Aug. 1950. 281.8 R325
- 9354 POIROT, P. L. The farm problem. *N. Y. Agr. Col. Farm Econ.* 175:4508-4510. July 1950. 280.8 C812
- 9355 POOLEY, N. B. C.'s wealthiest village; with a wide variety of crops, and irrigation to help yields, Creston is doing alright. *Family Herald & Wk. Star* 81(39):5. Sept. 28, 1950. 7 F21
- 9356 POPOV, V. Under the sway of dust storms. (In Russian.) *Molod. Kolkhoz.* 17(7):30. July 1950. 110 M73
- Agricultural conditions in United States.
- 9357 PORTO, C. Ills and remedies. (In Portuguese.) *Divulg. Coop.* 9:17, 4. July 1950. 280.28 R47
- Agricultural situation in various parts of Brazil.
- 9358 PRESTIANNI, N. The agricultural problem of Sicily. (In Italian.) In Milan. Istituto per gli Studi di Economia. Il problema agrario del Mezzogiorno, p. 37-51. Milano, Istituto Editoriale Italiano, 1950. 281.176 M58
- 9359 PURDUE UNIVERSITY. AGRICULTURAL ECONOMICS DEPT. Outlook for Indiana agriculture in 1951. *Hoosier Farmer* 35(10):14, 38. Oct. 1950. 280.82 H76
- 9360 REPORT of publications by Prof. Carlos Teixeira Mendes. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 25:254-258. July/Aug. 1950. 9.2 R324
- A list.
- 9361 REUTT, G. Regards sur la situation agricole de la région de Sidi-bel-Abbès. *Rev. Agr. de l'Afrique du Nord* 48:667-669. Sept. 15, 1950. 80 R326
- 9362 RICHARZ, H. Amerikanische landwirtschaft steigert produktion um ein viertel. *Z. f. Raumforsch.* 1950:192-193. 282.8 Z3
- 9363 SANSING, B. The Pike County [Mississippi] miracle. *Acco Press* 28(9):1-6, 12. Sept. 1950. 6 Ac2
- A 16-point program and community cooperation.
- 9364 SERRATS URQUIZA, S. El primer congreso nacional de ingeniería agronómica. *Inform. Com. Españ.* (ser.3)203:966-973. July 1950. 286.8 In3
- 9365 SIEVERS, A. Das landwirtschaftswissenschaftliche schrifttum über Deutschland in den ersten nachkriegsjahren. *Ber. z. Deut. Landesk.* 7:123-127. Ref. Nov. 1949. 18 B454
- 9366 SMITH, G. The agricultural prospect. In Smith, G., ed. Conservation of natural resources, p. 180-192. Ref. New York, Wiley, 1950. 279.12 Sm5
- 9367 SMITH, G. Land of many crops on road to rosy future. *Grain Prod. News* 3(4):5. Sept. 1950. 286.81 G764
- Agricultural outlook in Texas, Oklahoma, and New Mexico.
- 9368 SORLI, M. Agricultural problems in coastal districts. (In Norwegian.) *Landbrukstidende* 56:663-665. Aug. 23, 1950. 11 L236
- 9369 SPAIN. MAPA AGRONOMICA NACIONAL. Hoja No. 34-58-83, 985. Madrid, 1949. 2 v. 15 Sp15
- 9370 SPIELMAN, H. W. Her scientists say India can feed her millions. *Co-op Grain Q.* 8(3):29-32. Sept. 1950. 280.28 C7898
- Productive capacity of agriculture.
- 9371 STEVENSON, A. W. Agriculture's atomic balm. *O. A. C. Review* 62:468-470. Mid-summer 1950. 276.8 On8
- Food policy.
- 9372 STINE, O. C. Outlook for agriculture beyond 1950. Washington, U. S. Bur. Agr. Econ., 1950. 2 p. 1.941 H22St5
- Summary of address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 30, 1950.
- 9373 STORNES, A. Insight into agricultural problems. II-VI. (In Norwegian.) *Landbrukstidende* 56:563-566, 603-606, 643-646, 683-686, 707-708, 710. July 19, Aug. 2, 16, 30, Sept. 6, 1950. 11 L236
- 9374 STRAIGHT, M. Can Free India survive? *New Repub.* 123(20):10-14. Nov. 13, 1950. 280.8 N42
- Discusses the situation of agriculture and the peasantry.
- 9375 STREICHER, E. Wer hat den bogen überspannt? *Bad. Landwirt. Wchnbl.* 117:577-578. Aug. 26, 1950. 18 B142
- Agricultural policy.
- 9376 TORRES FILHO, A. Technical bases for Brazilian agriculture. (In Portuguese.) *Seleç. Agr.* 5(52):5-10. Aug. 1950. 9.2 Se4
- 9377 TRIGG, R. S. What lies ahead in the defense effort. Washington, U. S. Prod. & Mktg. Admin., 1950. 9 p. 1.956 A2T73
- Talk at annual convention of the Milk Industry Foundation, Atlantic City, Oct. 17, 1950.
- 9378 TRUJILLO, M. S. Tierra en la República. *Tierra [Mexico]* 5:489. Sept. 1950. 8 T445
- Mexico.
- 9379 UGANDA. GOVERNOR. Progress in Uganda, 1949. Entebbe, 1950. 39 p. 280.9 Ug1
- Includes agriculture and forestry.
- 9380 UHLEN, R. L'Alsace agricole. *Bas-Rhin Agr.* 5:451-452. Sept. 23, 1950. 14 B29
- 9381 UNITED NATIONS. ECONOMIC AND SOCIAL COUNCIL. ECONOMIC COMMISSION FOR ASIA AND THE FAR EAST. Report on the food and agricultural conditions in the Far East; note by the executive secretary. *Lake Success?* 1949. 35 p. (United Nations. [Doc.] E/CN.11/197 Annex A. 12 Sept. 1949) 389 Un395



9382 UNITED NATIONS. SECRETARIAT. Sample surveys of current interest. Lake Success? 1950. 24 p. (United Nations. [Doc.] E/CN.3/Sub.1/23) 280 Un39872 Includes agricultural surveys.

9383 U. S. BUR. OF AGRICULTURAL ECONOMICS. Agricultural outlook charts, 1951. Washington, 1950. 100 p. 1.9 Ec7AgrCh

9384 U. S. DEPT. OF AGRICULTURE. OFF. OF BUDGET AND FINANCE. Digest of agricultural legislation enacted during 81st Congress, 2nd session. Washington, 1950. 33 p. 1.911 A2D56

9385 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Abridged list of Federal laws applicable to agriculture. Washington, 1950. 21 p. (Doc. 2) 1.914 A2Ab82

9386 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. The 1951 outlook for farmers, by O. C. Stine, L. H. Simerl, J. C. Bottum, and K. M. Gopen. Washington, 1950. 4 p. 1.941 R2R11

9387 U. S. DEPT. OF AGRICULTURE. OFF. OF THE SOLICITOR. A general description of the "Defense Production Act of 1950." Washington, 1950. 10 p. 1.918 G284

9388 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. The agriculture of Burma. Preliminary report. Washington, 1950. 48 p. 1.943 Ag836 Economic aspects.

9389 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. The agriculture of Indonesia. Preliminary report. Washington, 1950. 84 p. Ref. 1.943 Ag835 Includes economic aspects.

9390 VIALLE, A. La culture de la région nord-atlantique de l'Espagne. *Potasse* 24:125-127. Sept. 1950. 57.8 P84

9391 VISOCCHI, V. The interests of Italian agriculture within the plan of European economic integration. (In Italian.) *Mezzogiorno Agr.* 6(40):3. Oct. 14/22, 1950. 16 M57

9392 VISSCHER, J. Madagascar. (In Dutch.) *Tijdschr. v. Econ. en Sociale Geog.* 41:155-171. Ref. July 1950. 280.8 T44 Includes agriculture.

9393 VRIES, A. P. V. D. Agricultural aspects of the welfare program of Surinam. (In Dutch.) (Sum.) *Landbk. Tijdschr.* 62:510-514. July 1950. 105.2 Or3

9394 WAGNER, M. W. Der standort der schweizerischen landwirtschaft im jahre 1950. *Agrarpolit. Rev.* 7 (54):1-16. Sept. 1950. 281.8 Ag824

9395 WALTZ, A. Les conditions d'un avenir agricole satisfaisant. *Fiches Rur.* 58:1-6. May 1950. 281.8 F44 France.

9396 WATT, R. D. Some benefactors of Australian agriculture. *Agr. Bur. N. S. Wales. State Conf. Hawkesbury Agr. Col.* 26:15-17. 1950. 23 Ag82S

9397 WEISS, F. Die südwestdeutsche landwirtschaft und der Südweststaat. *Bad. Landwirt. Wchnbl.* 117:625-627. Sept. 16, 1950. 18 B142

9398 WELLS, O. V. For good land's sake: feeding our growing nation. *Co-op Grain Q.* 8(3):58-62. Sept. 1950. 280.28 C7898

Future food requirements in relation to productive capacity.

9399 WELLS, O. V. Significant aspects of the outlook. Washington, U. S. Bur. Agr. Econ., 1950. 6 p. 1.941 F3W46

Summary of comments at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.

9400 WOOLLEY, F. K. The additional burden on agriculture caused by the mobilization of ten million citizens into the Armed Forces. *Food Technol.* 4:423-426. Nov. 1950. 389.8 F7398

#### Subsidies

9401 KELMAN, L. K. Industry stabilisation; proposal for subsidising export of fresh citrus fruit and processed juices. *Citrus News* 26:118-119. Aug. 1950. 80 C494

Australia.

#### COST AND STANDARD OF LIVING

9402 REAGAN, B. B., PENNOCK, J. L., and EASSON, L. Current farm family living. Washington, U. S. Bur. Human Nutr. & Home Econ., 1950. 21 p. 1.914 R2R11

Talks at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.

9403 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Rural family living charts. Washington, 1950. 92 p. 1.9 Ec7Ofa

9404 WEISS, G. S. Farm family spending. Washington, U. S. Bur. Human Nutr. & Home Econ., 1950. 5 p. 1.982 A2W43

Address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.

#### FARM MANAGEMENT AND LAND ECONOMICS

9405 ACKERMAN, J. Family farm problems and policies. In Timmons, J. F., and Murray, W. G., eds. *Land problems and policies*, p. 205-217. Ref. Ames, Iowa State Col. Press, 1950. 282 T48

9406 ALTENRIED, M. Gedanken zum alpwanderkurs 1950. *Allgäuer Bauernbl.* 18:545-548. Sept. 14, 1950. 18 AL53 Farming.

9407 ARSENAULT, L. Etablissement 1907 vs établissement 1950. *Foyer Rur. [Montreal]* 9(12):4-5. Sept. 1950. 7 F83

9408 AZHIRKOV, P. I. Kak kolkhoz "Borefs" stal peredovym sofsialisticheskim khoziaistvom [How Borets collective farm became a leading socialist establishment] *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 71 p. (Ekonomicheskaiâ Bibliotekha Kolkhoznika) 281.179 Az2

9409 BARBER, E. L. Meeting weather risks in Kansas wheat farming. *Kans. Agr. Expt. Sta. Agr. Econ. Rpt.* 44,30 p. Sept. 1950. 281.9 K132 Income stability.

9410 BIERMAN, R. W. How to operate a dairy farm on halves. *South. Planter* 111(10):6,16-17. Oct. 1950. 6 So89

9411 BRANDÃO, E. D. How to increase the income from your farm. (In Portuguese.) *Rev. Ceres* 8:188-204. July/Dec. 1949. 9.2 C332 Management in Brazil.

9412 BRUIN, H. DE. Prospects for the Netherlands immigrant in New Zealand. (In Dutch.) *Landb. Wereldnieuws* 5:274-279. Aug. 1, 1950. 12 L237 Discusses various types of farming.

9413 BUSCH, A. Der Milchhof Hamburg—ein experiment? *Deut. Milchhandels Ztg.* 72:519-520. Aug. 25, 1950. 44.8 D48

9414 CARTER, J. Proper use of Ozark resources helps make Anderson farm pay. *Natl. Live Stock Prod.* 29:7,15. Oct. 1950. 280.38 N21 Livestock farm management.

9415 COSSETTE, M. Xavier Rivest le cultivateur de 1950. *B. des Agr.* 46(9):6-7,54-55,62,64-65. Sept. 1950. 7 B872 Winner of the Mérite Agricole in Quebec.

9416 DAVIS, L. H. The poor land is still with us. *N. Y. Agr. Col. Farm Econ.* 175:4519-4521. July 1950. 280.8 C812

9417 DENCKER, C. H. Die landtechnik in der welt. *Kuratorium f. Tech. in der Landwirt. Ber. über Landtech. Sonderh.* 2:44-54. 1950. 18 K96B

9418 DILLON, M. Farming in the hills. *Agr. Ireland* 7:227-229. Oct. 1950. 10.5 Ag8

9419 DOANE, D. H. Farmfacs and kitchshops; some observations on the possibilities of vertical diversification. *Land* 9:387-392. Autumn 1950. 279.8 L22

9420 DUETZ, W. B. Observations on efficient management. (In Dutch.) *Fruiteelteel* 40:677. Sept. 7, 1950. 86 N28

Of orchards.

9421 EGGLETON, L. Z. How can midwestern farm poultry raisers adjust to fit the changing meat production pattern? (Excerpts.) *U. S. Egg & Poultry Mag.* 56(10):12,26. Oct. 1950. 286.85 Eg3



- 9422 ELLIS, L. S. Two days in Belgium. *Prog. Farmer, Miss.-Ark.-La.* Ed. 65(10):19,116. Oct.1950. 6 So81  
Includes farming in Belgium.
- 9423 FANNING, J. W. Seven ways to success on a small farm. *Prog. Farmer, Ga.-Ala.-Fla.* Ed. 65(10):15, 123. Oct.1950. 6 P945G
- 9424 FARCY, H. DE. Techniques indigènes et techniques des colons dans l'agriculture marocaine. *Études Rhodaniennes* 25:99-105. Ref. 1950. 473 Et8
- 9425 FISCHER, K. H. Landtechnik - eine existenzfrage. *Landtechnik* 5:613-614. Sept.15,1950. 58.8 L235
- 9426 FOX, A. C. Conservation farming recognized. *N. Dak. Outdoors* 13(3):9. Sept.1950. 412.9 N815
- 9427 FULLILOVE, W. T., and ELROD, J. C. Cotton production practices and cost in the Upper Coastal Plain of Georgia. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 32, 34 p. Oct.1950. 100 G29M
- 9428 FULLILOVE, W. T., and ELROD, J. C. Cotton production practices and costs, Limestone Valley, Georgia. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 19,36 p. Mar.1950. 100 G29M
- 9429 GABRIELSON, I. N. Problems and policies of wildlife management. In Timmons, J. F., and Murray, W. G., eds. *Land problems and policies*, p.191-203. Ames,Iowa State Col.Press,1950. 282 T48  
In relation to land management.
- 9430 GEL'MAN, V. Machine-tractor stations and collective farms in the effort for the harvest. (In Russian.) *Mashinno-Traktornaja Sta.* 10(6):28-30. June 1950. 58.8 M11
- 9431 GLASGOW, R. B., and FULLILOVE, W. T. Cotton production practices and cost in the Piedmont area of Georgia. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 25, 49 p. Aug.1950. 100 G29M  
U. S. Bureau of Agricultural Economics cooperating. Farm management aspects, including detailed statistics.
- 9432 GRELIN, W. Rationalisierung der milchwirtschaft. *Wirtsch. Wchnbl. f. Landwirt.* 117:737-738. Aug.5,1950. 18 W96
- 9433 GT. BRIT. ALLOTMENTS ADVISORY COMMITTEE. Allotments, report respecting amendment of existing allotments legislation. London,H.M. Stationery Off.,1950. 19 p. 282.171 G795
- 9434 GREEN, J. Back-garden farming. *Times Survey Brit. Agr.* 1950:7. July 1950. 10 T48  
Organized movements to promote food production, Great Britain.
- 9435 GROTTIAN, W. Das experiment der landwirtschaftlichen kollektivierung und kollektivwirtschaft in der Sowjetunion (1929-1950). *Deut. Inst. f. Wirtforsch. Vrtljahrh.* 2:132-157. 1950. 289.9 B452
- 9436 HANNA, C. M. More family farms or better rural families? *Town & Country Church* 64:5-6. Oct. 1950. 281.28 T66
- 9437 HARRINGTON, B. J. Pimiento peppers; production practices and costs, Coastal Plain, Georgia. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 18,20 p. Mar.1950. 100 G29M
- 9438 HARRINGTON, B. J. Pimiento peppers; production practices and costs, Piedmont, Georgia. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 12,21 p. Jan.1950. 100 G29M
- 9439 HARRINGTON, B. J. Tobacco; production practices and costs, Lower Coastal Plain, Georgia. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 17,15 p. Mar.1950. 100 G29M
- 9440 HARRINGTON, B. J. Wheat production practices and costs, Piedmont, Georgia. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 20, 18 p. Mar.1950. 100 G29M
- 9441 HAUSHOFER, H. Die technik im bauernhof. Kuratorium f. Tech. in der Landwirt. Ber. über Landtech. Sonderh. 2:21-34. 1950. 18 K96B
- 9442 HAVILAND, W. E. Some economic aspects of tobacco farming in Ontario. *Econ. Annal.* 20:107-113. Oct.1950. 281.8 Ec72
- 9443 HAYES, J. B. Farm flock management; here are poultry practices that pay. *Dairyland News* 20(9):2. Sept.1950. 280.28 W752
- 9444 HENDERSON, G. Farmer's progress, a guide to farming. London,Faber,1950. 230 p. 32 H38F
- 9445 HERE'S the latest in dairy farming research. I. Kraftsman, Prod. Ed. 8(5):3. Sept./Oct.1950. 44.8 K85  
Also in *Sealtest Dairyman* 4(5):14. Sept./Oct.1950. 44.8 Sel
- 9446 HODGES, J. A., and others. Farm management summary and analysis; the 1949 report by type of farming area. *Kans. Agr. Expt. Sta. Agr. Econ. Rpt.* 43,90 p. 1950? 281.9 K132  
R. J. Doll, E. Castle, C. F. Bortfeld, D. A. Knight, J. H. Coolidge and H. C. Love, joint authors.
- 9447 HOY, J. D. The right combination for profitable dairying; Jackson County, Florida, farmers find that good cows, good pastures, good herd replacements and good management mean more profit in dairying. *Sealtest Dairyman* 4(5):10-11. Sept./Oct.1950. 44.8 Sel
- 9448 HUTCHINSON, J. Back to beef and no regrets; a Devon hill-farmer with faith in the future of beef finds that a return to the traditional system on his farm is no less remunerative than when he was dairying. *Farmers Wk. [London]* 33(16):67,69. Oct.20,1950. 10 F2226
- 9449 INDIANA. PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. Farm planning in Indiana. *Purdue U. Agr. Ext. B.* 355,11 p. 1950? 275.29 In2E
- 9450 JESNESS, O. B. Land programs in a policy framework. In Timmons, J. F., and Murray, W. G., eds. *Land problems and policies*, p.253-273. Ref. Ames,Iowa State Col.Press,1950. 282 T48
- 9451 JOELSON, J. L'agriculture chinoise peut-elle être modernisée? I. Agence France-Presse. Inform. et Doc. 312:11-13. Oct.7,1950. 280.9 Ag3
- 9452 JONES, A., and MANN, A. Lincolnshire farming. *Brit. Agr. B.* 3(9):45-50. Spring 1950. 10 B776
- 9453 KELLOGG, C. E., and BARNES, C. P. Farm land resources of the United States. In Timmons, J. F., and Murray, W. G., eds. *Land problems and policies*, p.45-58. Ames,Iowa State Col.Press,1950. 282 T48
- 9454 KEUNE. Vernachlässigung der milchviehhaltung? *Hannoversche Land- u. Forstwirt. Ztg.* 103:533. June 3,1950. 18 H194  
Dairy cattle management.
- 9455 KINGSLAND, A. M. The distribution of farming in New South Wales. *Rev. Mktg. & Agr. Econ.* (n.s.) 18:160-167. June 1950. 286.8 N47M  
Types.
- 9456 KLOTH, W. Der stand der wissenschaftlichen erkenntnis in der landtechnik. Kuratorium f. Tech. in der Landwirt. Ber. über Landtech. Sonderh. 2:35-43. Ref. 1950. 18 K96B
- 9457 KUTISH, F. A. Boost profits in dairying. *Hoard's Dairyman* 95:649,661. Sept.25,1950. 44.8 H65  
Farm management.
- 9458 LAFORET, M. La culture du riz dans la plaine du Po. *Rev. Agr. de l'Afrique du Nord* 48:631-634. (To be cont.) Aug.25,1950. 80 R326  
Farm management.
- 9459 LAND SETTLEMENT ASSOCIATION. Small-holdings; centralized services; report and accounts for 1948-49. London,1950. 55 p. 282.29 L23A
- 9460 LEEDS UNIVERSITY. DEPT. OF AGRICULTURE. ECONOMICS SECT. Types of farming in Yorkshire; a study based on 172 farm accounts in 1948-49. *Leeds U. Farmers' Rpt.* 90,33 p. July 1950. 281.9 L51
- 9461 LEHIGH County farm directory, 1949. Allentown, 1949. 88 p. 225 L523
- 9462 LIBBY, H. E. Aroostook's changing agriculture. *Soil Conserv.* 16:67-68. Oct.1950. 1.6 So3S  
Diversified farming, Aroostook County, Maine.
- 9463 LIPPMANN, K. Rentabilität und betriebswirtschaftliches planen. *Deut. Landwirt. Presse* 73(17):5;(18):4. (Cont.) Aug.5-19,1950. 18 D482
- 9464 MAKINGS, S. M. Farming in Southern Rhodesia. *Gt. Brit. Min. Agr. Agriculture* 57:223-229. Aug. 1950. 10 G79J
- 9465 MAL'TSEV, K. The council of machine-tractor stations. (In Russian.) *Mashinno-Traktornaja Sta.* 10(5):1-4. May 1950. 58.8 M11
- 9466 MAYCOCK, S. A., ed. The smallholder's pocket guide. London,Pearson,1950. 249 p. 30.3 M45
- 9467 MILLER, W. P. Developments in public school land policies in Utah, 1935-1948. *Stanford U. Abs. Diss.* (ser.8)35:461-464. Nov.30,1949. 241.8 St2
- 9468 MUAN, P. Size of farm. (In Norwegian.) *Landbrukstidende* 56:627-629. Aug.9,1950. 11 L236  
Norway.
- 9469 NAUGLE, J. D. Each cow an individual. *Hoard's Dairyman* 95:650. Sept.25,1950. 44.8 H65  
Dairy farm management.



- 9470 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Temora Experiment Farm, annual field day, 19th October, 1949. Temora?1949. 7 p. 109 N47T
- 9471 NOILHAN, H. La constitution d'une société permet-elle de sauvegarder l'intégrité des exploitations et de donner un statut aux fils d'agriculteurs? Rev. de Lég. Agr. 3:143-145. Sept.1950. 281.8 R325  
Family farms.
- 9472 NORTHAMPTON County farm directory, 1950. Allentown, 1950. 92 p. 225 N8132
- 9473 NORTHERN RHODESIA. DEPT. OF SURVEYS AND LAND. Annual report for the year 1949. Lusaka, 1950. 11 p. 282.9 R342
- 9474 O'CONNOR, R. Economics on the farm. Agr. Ireland 7:207-209. Sept.1950. 10.5 Ag8
- 9475 PENN, R. J. Public interest in private land. In Timmons, J. F., and Murray, W. G., eds. Land problems and policies, p.219-233. Ref. Ames, Iowa State Col. Press, 1950. 282 T48
- 9476 PHILLIPS, H. Grass is his gospel. Farmers Wk. [London] 33(15):51,53. Oct.13, 1950. 10 F2226  
Management of a farm in Essex with the accent on grass.
- 9477 PREUSCHEN, G. Allgemeine landwirtschaftliche betriebslehre. Studienbogen Landwirt. B 13, 138 p. 1949. 18 St9  
Farming methods.
- 9478 QUEBEC. DEPT. OF LANDS AND FORESTS. Report for the year ending March 31st, 1948. Quebec, 1949. 165 p. 253.8 L23
- 9479 RADCHEK, M. A diversified, highly profitable farm. (In Russian.) Kolkhoz. Proizvodstvo 10(6):13-14. June 1950. 281.8 K83  
Krasnye Gornye Orly Kolkhoz in Semipalatinsk Region.
- 9480 ROHWER, R. A. How Iowans get started farming. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:51-52. Oct.1950. 275.28 Io94
- 9481 ROMON, H. Délabrement. Nord Agr. 6(45): 1-2. Sept.22, 1950. 14 N75  
Run-down state of farms.
- 9482 RUFIN, G. Une ferme laitière dans le Minnesota. Jura Agr. (n.s.):62:1. Nov.1950. 14 J97
- 9483 RUSSELL, K. N. A comparison of dairy farming systems. Soc. Dairy Tech. J. 4:4-10. Oct.1950. 44.8 So12  
Includes discussion.
- 9484 RYAN, D. W. S. Farming in Newfoundland. Farmer's Mag. 47(9):11,46. Sept.1950. 7 C165
- 9485 RYSER, W. Le maintien des paysans dans les régions de montagne. Agr. du Sud-Est (n.s.):57(15):1,4. Sept.17, 1950. 14 Ag88
- 9486 SCHAUB, I. O. Farmers must choose—which will your family choose? Prog. Farmer, Carolinas-Va. Ed. 65(10):15,121,126-127. Oct.1950. 6 P945  
Old-type cash crop farming in the Southeastern States, or development of livestock farming.
- 9487 SCHULZ, M. E. Der bäuerliche Viehhalter in Schweden. Milcherzeuger 8:28-29. July 1950. 43.8 M592
- 9488 SCOTT, H. K. Recent trends in farming in irrigated areas of Alberta. Econ. Annal. 20:113-117. Oct.1950. 281.8 Ec72
- 9489 SEELY, C. P., and PLATT, K. B. Public domain range influences in eastern Oregon counties. Oreg. Dept. Agr., Agr. B. 167:8-11. Sept.1950. 2 Or3
- 9490 SERRA, G., and PINERO, M. An economic study of family-sized farms in Puerto Rico. III. La Plata Farm Security Administration farms, 1943-44, 1944-45. P. R. (Rio Piedras) Agr. Expt. Sta. B. 79, 48 p. Apr.1950. 100 P83
- 9491 SNEDDO, J. Good enough for father? MacDonald Col. J. 10(12):8-9. Aug.1950. 101 M144  
Changes in farming.
- 9492 SOEST, W. VAN. Some economic aspects of commercial fruit growing. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:539-552. Aug./Sept.1950. 86 N384  
English summary.
- 9493 SOMMERKAMP. Zwischen vergangenheit und zukunft; die landwirtschaft in Weser-Ems betriebswirtschaftlich gesehen. Landwirtbl. Weser-Ems 36:719-721. Sept.6, 1950. 18 L2345
- 9494 SOUTH AUSTRALIA. DEPT. OF LANDS. Annual report, 1948-1949. Adelaide, 1950. 68 p. 23 So82
- 9495 SPEISER, H., and TISCHLER, G. Gedanken um die geistige stellung der technik insbesondere der landtechnik. Kuratorium f. Tech. in der Landwirt. Ber. über Landtech. Sonderh. 2:5-20. Ref. 1950. 18 K96B
- 9496 SUKHIN, L. Elaboration of production plans. (In Russian.) Mashinno-Traktornafä Sta. 10(6):30-32. June 1950. 58.8 M11  
Salsk Machine-Tractor Station in Rostov Region.
- 9497 SUTHERLAND, J. G., and JAMES, H. B. Cotton production practices, Coastal Plains Area, North Carolina. N. C. Agr. Col. Dept. Agr. Econ. AE-Inf. Ser. 27, 30 p. Nov.1950. 281.9 N816  
Farm management aspects.
- 9498 SUTHERLAND, J. G., and JAMES, H. B. Cotton production practices, southern Piedmont area, North Carolina. N. C. Agr. Col. Dept. Agr. Econ. AE-Inf. Ser. 25, 33 p. Sept.1950. 281.9 N816  
Economic study of cotton farms.
- 9499 SYMAN-UVEELER, L. Report on the study of a pioneer training farm. Coop. Living 2:1-10. Fall 1950. 280.28 C7871  
Zionist training in the United States.
- 9500 TANGANYIKA. DEPT. OF LANDS AND MINES. Annual report 1947. Dar es Salaam, 1950. 107 p. 282.9 T15A
- 9501 TAYLOR, H. R. Who's a hick now? Farmer is jack-of-all-trades, helped along by scientific research from many quarters. Sowest. Crop & Stock 4(9):8. Sept. 1950. 6 So8942  
Examples of rural ingenuity.
- 9502 TIMMONS, J. F. Building a land policy. In Timmons, J. F., and Murray, W. G., eds. Land problems and policies, p.275-291. Ames, Iowa State Col. Press, 1950. 282 T48
- 9503 TIMMONS, J. F., and MURRAY, W. G., eds. Land problems and policies. Ames, Iowa State Col. Press, 1950. 298 p. 282 T48
- 9504 TOLLEY, C. H. Farming "Down Under." Dakota Farmer 70(20):22. Oct.21, 1950. 6 D14
- 9505 TOWNSEND, P. S. A northern dairy farm development. Dairyman 67:499-501. Sept.1950. 44.8 D1426  
England.
- 9506 VANCE, M. Louisiana; more beef and rice per acre; here's how! Coastal Cattleman 16(9):28. Nov.1950. 43.8 C63
- 9507 VERESHCHAGIN, N. I., MAKRIDIN-CHESNO-KOV, A. I., and NOVIKOV, I. A., eds. Organizatsiya finansovogo khozaystva sovkhosha [organization of financial economy of State farms]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 197 p. 284 V58
- 9508 VISHER, S. S. The public domain and its disposal. In Smith, G., ed. Conservation of natural resources, p.13-24. Ref. New York, Wiley, 1950. 279.12 Sm5
- 9509 WEBB, G. Royce Mitchell succeeds with complete-farm plan. Better Crops Plant Food 34(8):25-26, 46-48. Oct.1950. 6 B46
- 9510 WEISHAAR, L. J. Grower contracts are important. Fruit & Veg. Rev. 12(7):11,22. Oct.1950. 80 C1224
- 9511 WENGER, G. Nichtalles an einen nagel-hängen! Geflügelhof 13:577-578. Sept.1, 1950. 47.8 G276  
Poultry farm management.
- 9512 WHITE, J. W. Farm management aspects of putting every acre to work. Ark. Agr. Col. Ext. Agr. Ext. Econ. 9(10):3. Oct.1950. 275.29 Ar4Ark
- 9513 WOLLNY, H. G. Als deutscher jungbauer in der Schweiz. Hannoversche Land- u. Forstwirt. Ztg. 103: 388. Apr.15, 1950. 18 H194  
Farming in Switzerland.
- 9514 YOHE, R. S. Italy turns to family farms. Prog. Farmer, Tex. Ed. 65(10):78-79. Oct.1950. 6 T311

#### Bookkeeping and Records

- 9515 HARMON, C. F. The certified public accountant and the livestock man. Ariz. Cattlelog 6:38-40. Sept.1950. 43.8 Ar42
- 9516 LAPKO, A. How to calculate payment in kind for the work of machine-tractor stations. (In Russian.) Kolkhoz. Proizvodstvo 10(6):44-45. June 1950. 281.8 K83
- 9517 MITUSHKIN, T. On cost accounting in the tractor brigade. (In Russian.) Mashinno-Traktornafä Sta. 10(5):5-8. May 1950. 58.8 M11  
Machine-tractor stations.



- 9518 SMITH, F. V. What do the 1949 farm accounts show? *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1950:4-5. Sept.20,1950. 275.29 In2Em
- 9519 WOELKE, A. *Wochenbuch des landwirtschaftlichen lehrlings*. Ed. A. Minden (Westf.), Schulz, 1949. 105 p. 30.61 W83  
Account book.
- Costs and Returns**
- 9520 BAPTIST, S. La rentabilité de l'exploitation laitière. *Cong. Natl. de Zootechnie Bovine. Rap. Prélim. et Rap. Gén.* 2(1):59-66. 1949. 43.9 C767
- 9521 BAUM, E. Four point four percent. *Amer. Milk Rev.* 12(10):52,54,56,104-105. Oct.1950. 44.8 Am38  
Costs and returns in the dairy industry.
- 9522 BEINKE, E. G. Marktanpassung und nutzungsrichtung in der schweinehaltung. *Landwirtsbl. Weser-Ems* 97:676-678. Aug.24,1950. 18 L2345
- 9523 BROOKE, D. L., and SPURLOCK, A. H. Labor and material requirements, costs of production and returns on Florida Irish potatoes. *Fla. Agr. Expt. Sta. B.* 472,29 p. Sept.1950. 100 F66S
- 9524 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Citrus management study San Diego County, 1949. Berkeley? 1950? 13 p. 275.29 C12En  
Costs and returns.
- 9525 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Colusa County rice management study, 1949. Berkeley? 1950? 14 p. 275.29 C12En  
Costs and returns.
- 9526 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Lassen [County] beef management study. Berkeley? 1950? 7 p. 275.29 C12En  
Income and expenses.
- 9527 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1949 Santa Barbara County lemon management study. Berkeley? 1950? 7 p. 275.29 C12En  
Costs and returns.
- 9528 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. San Diego County poultry egg management study, 1949, by R. H. Adolph and A. D. Reed. Berkeley? 1950? 6 p. 275.29 C12En  
Chiefly costs and returns.
- 9529 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Tokay and wine grape management study, San Joaquin County, 1949. Berkeley, 1950? 9 p. 275.29 C12En  
Costs and returns.
- 9530 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Two year summary of the Scott Valley beef management and land utilization study, May 1, 1947 - June 1, 1949, including data on the Klamath National Forest. Berkeley? 1950? 16 p. 275.29 C12En  
Includes cost records.
- 9531 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Ventura County citrus orchard management study, by W. Sullivan and G. E. Goodall. Berkeley? 1950? 25 p. 275.29 C12En  
Costs and returns.
- 9532 CARPENTER, E. M. Costs of rearing lambs from first cross ewes on Northumberland farms in 1948. *King's Col. Farm Econ. Br. Rpt. G.* 29,18 p. Mar.1949. 281.9 K61
- 9533 CIFERRI, R. Análisis de un tratamiento de producción y costos de una hacienda en Las Trincheras (Estado Carabobo, Venezuela). *Colombia. U. Nac. Facul. Nac. de Agron. Rev.* 11(37):19-33. Mar.1950. 9.4 C717  
Cacao costs and returns.
- 9534 COATES, G. M. Agricultural costing. I-II. *Westralian Farmers Co-op Gaz.* 19:5,7,9-10,87,89,91. July-Aug.1950. 280.28 W522
- 9535 COOPER, M. M. The land of cut-price farming. *Farmers Wk. [London]* 33(8):57,59. Aug.25,1950. 10 F2226  
Milk and mutton production costs in New Zealand compared with costs in Great Britain.
- 9536 COSTE, W. Wie senken wir die milcherzeugungskosten? *Unser Milchvieh. Ausg. B/C* 2(7):2-3. July 1950. 43.8 Un72
- 9537 DARRAH, L. B., and KEARL, C. D. Costs of raising pullets. *N. Y. Agr. Col. Farm Econ.* 175:4500-4502. July 1950. 280.8 C812
- 9538 DE SWARDT, S. J. Factors that determined the price of the 1949-50 mealie crop; how production costs were calculated by the Division of Economics and Markets. *Farmer's Wk. [Bloemfontein]* 79:10-11,13. Sept.6,1950. 24 F225  
Maize cost of production, Union of South Africa.
- 9539 DINSDALE, D. H., and CARPENTER, E. M. Costs and returns from store wintered grass-finished cattle on Northumberland farms 1947-48. *King's Col. Farm Econ. Br. Rpt. G.* 30,8 p. Apr.1949. 281.9 K61
- 9540 DIXEY, R. N. The economics of grass conservation. *Agr. Econ. Soc. J. Proc.* 8:139-162. Apr. 1949. 281.9 Ag8  
Includes discussion.  
Contains costs of feed production.
- 9541 EMPSON, J. D. Bull costs and service charges in relation to the costs of improving dairy herds. *Farm Econ.* 6:197-204. Aug.1950. 281.8 F223
- 9542 ERICSON, F. L. Milk production at the Uddeholm farms. (In Swedish.) *Ladugården* 1950:232-236. Aug.1950. 44.8 L12  
Costs and returns.
- 9543 FRANKENA, H. J. Production cost of home grown forage. (In Dutch.) *Friesch Landtbl.* 47:423. July 7,1950. 12 F91
- 9544 GORDY, F. You can't do it on a shoestring. How much money does it take to get started in the broiler business? Here is a summary of what is needed and how much it will cost. *Broiler Growing* 1(3):8,52-54. Nov. 1950. 47.8 B782
- 9545 HEISIG, C. P. Outlook for farm costs for 1951. *Washington, U. S. Bur. Agr. Econ.*, 1950. 10 p. 1.941 A2H36  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.
- 9546 KEUNE, O. Über holländische milcherzeugungskosten. *Tierzüchter* 2:438-439. Aug.20,1950. 49 T445
- 9547 KLUGER, M. J. How important are averages? *Amer. Milk Rev.* 12(10):44,46,111. Oct.1950. 44.8 Am38  
Costs and returns in dairying.
- 9548 LANDBOUW-ECONOMISCH INSTITUUT. Statistiek van de bedrijfsuitkomsten in de landbouw; overzicht No. 6, steekproef 1949/1950 [Statistics of management results in agriculture; report No. 6, 1949/1950 sample]. 's-Gravenhage, 1950. 13 p. 259 L232  
Costs and returns.
- 9549 MCGURK, J. L., and WARREN, S. W. Changes in the dollar side of farming. *N. Y. Agr. Col. A. E.* 759, 7 p. Oct.1950. 281.9 C81  
Costs and returns.
- 9550 MCLERNON, J. How far will the cow dollar stretch? *Ariz. Cattlelog* 5(12):12-16. Aug.1950. 43.8 Ar42
- 9551 MANCHESTER. UNIVERSITY. AGRICULTURAL ECONOMICS DEPT. Costs of fattening sheep and lambs on grass 1948/49. *Manchester. U. Agr. Econ. Dept. B.* 58/EC30,6 p. Sept.1950. 10 V66
- 9552 MANCHESTER. UNIVERSITY. AGRICULTURAL ECONOMICS DEPT. Fat cattle costs, winter 1949/50. *Manchester. U. Agr. Econ. Dept. B.* 57/EC29,9 p. Sept.1950. 10 V66
- 9553 MARSHALL, F. R. Do big size navels pay? *Citrus Leaves* 30(10):36-37. Oct.1950. 80 C492
- 9554 MONROE, C. F. Determining relative return from high and low testing milk. *Ohio Farm & Home Res. [Ohio Sta.]* 35:54-55. July/Aug.1950. 100 Oh3S  
Also in *Coop. Dairy Farmer* 29(12):3. Sept.1950. 280.28 C7825
- 9555 MOORE, A. C. We need a minimum annual profit of 10s. per bird. *Poultry [London]* 107:288. Oct.10,1950. 47.8 P869
- 9556 NOTTINGHAM. UNIVERSITY. SCHOOL OF AGRICULTURE. DEPT. OF AGRICULTURAL ECONOMICS. The national investigation into the economics of milk production; report of the East Midlands Province, 1948/49. *Sutton Bonington*, 1950. 15 p. 281.3449 N84



9557 ORTIZ MALDONADO, R. J. Costo de implantación de viñas para vinificar; su determinación. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(9):11-19. Mar.1950. 9 Ar35

9558 RICHTER, K. Die erzeugungskosten der milch. Ed. 2. Arb. gemeinsch. Deut. Rinderzüchter. Schreibe. 1,23 p. 1950. 43.9 Z4

9559 ROWE, J. E. Profit from birds in folds. Mod. Poultry Keeping 63:292-293. Sept.27,1950. 47.8 Eg3 Great Britain.

9560 STADHOUDERS, P. J. Economical problems in the horticultural centre "De Venen." (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:507-531. Aug./Sept.1950. 86 N384 English summary.

9561 STODART, J. A. How valuable is dung? Farmers Wk. [London] 33(14):55. Oct.6,1950. 10 F2226 Cost of producing grass-finished beef in Great Britain.

9562 SWARDT, S. J. DE. Estimating the cost of production of corn. (In Afrikaans.) Landbouweekblad 32 (1626):31,33,59. Sept.13,1950. 24 L232 Union of South Africa.

9563 THOMAS, W. P., and others. Trends in agricultural production, costs, and returns in Utah. Agr. Expt. Sta. Spec. Rpt. 3,35 p. Sept.1950. 100 UtiSp G. T. Blanch, D. A. Broadbent, E. M. Morrison, R. H. Anderson, and E. W. Lamborn, joint authors.

9564 THOMPSON, J. H. Figures—and facts. Farmers Wk. [London] 33(10):55. Sept.8,1950. 10 F2226 Method of assessing milk production costs.

9565 U. S. BUR. OF AGRICULTURAL ECONOMICS. The farm cost situation. U. S. Bur. Agr. Econ. FCS-9, 25 p. Oct.1950. 1.941 F8F222

9566 WILLERTON, J. F. Egg production at lower cost. Gt. Brit. Min. Agr. Agriculture 57:280-283. Sept. 1950. 10 G79J

#### Land Settlement and Colonization

9567 BRENDER, E. V., and MERRICK, E. Early settlement and land use in the present Toccoa Experimental Forest. Sci. Mon. 71:318-325. Nov.1950. 470 Sci23

9568 CAMARGO, F. C. DE. Land and colonization in the old and new quaternary of the Braganza Railroad zone, State of Paraná. (In Portuguese.) Agr. e Pecuaria 21(325):16,18-20,22-23. Aug.1950. 9.2 Ag89

9569 FEHN, H. Zeitbedingte wachstumserschelungen an den grossstadträndern der gegenwart. Ber. z. Deut. Landes. 8:296-300. July 1950. 18 B454 Touches upon land settlement.

9570 GIMENO, J. A. Sociedades cooperativas y grupos sindicales de colonización. Cooperación [Madrid] 101/102:14-15. July/Aug.1950. 280.28 C7875

9571 HABBU, V. S. Note on colonisations schemes in Kanara. Poona Agr. Col. Mag. 41:94-98. Aug.1950. 22 P79

9572 LEONE, G. Duties and functions of colonization societies in the South. (In Italian.) In Milan. Istituto per gli Studi di Economia. Il problema agrario del Mezzogiorno, p. 81-88. Milano, Istituto Editoriale Italiano, 1950. 281.176 M58 Italy.

9573 LONGMORE, T. W. Possibilities of agricultural colonization in Peru with reference to persons of European origin. Mich. U. Microfilm Abs. 10(3):253-254. 1950. 241.8 M58

9574 MONTERO, F. Labor colonizadora de las tierras de España. Inform. Com. Españ. (ser.3)203:952-959. July 1950. 286.8 In3 Text in English, p. 980-982.

9575 MOURA, V. Bahia, open field for European immigration. (In Portuguese.) Observador Econ. e Financ. 15(176):86-93. Sept.1950. 280.8 Ob72 Land settlement.

9576 ROSENT, I. Colonización agrícola ciudadana. Cult. Mod. 33:251-252. July 1950. 15 C89

9577 SOUTH AUSTRALIA. DEPT. OF LANDS. LAND DEVELOPMENT EXECUTIVE. Progress in land development (non-irrigation) 1949. Adelaide, 1949. 16 p. 282.9 So82 Settlement.

9578 SOUTHERN RHODESIA. LAND SETTLEMENT BOARD. Fifth annual report for the year ended 31st December, 1949. Salisbury, 1950. 13 p. 282.29 R34

9579 VALLE, C. L. Colonias agrícolas con hombres que sepan hacer producir la tierra. Agr. Costarricense 8:267,269,271,273,275,277,279,281. June 1950. 8 Ag895

9580 VITO, F. Emigration and colonization of Italians in the Americas. (In Italian.) Mercanzia 5(8):21-25. Aug.1950. 287 B635

9581 WAIBEL, L. European colonization in southern Brazil. Geog. Rev. 40:529-547. Oct.1950. 500 Am35G

#### Land Tenure

9582 AN ALLY in Asia: land reform. Fortune 42(5):74-76. Nov.1950. 110 F772

9583 BANDINI, M. Sardinia and the land reform. (In Italian.) Agr. Ital. 1:387-388. Aug.1,1950. 16 Ag822

9584 BARROS, H. DE. On the concept of agrarian reform. (In Portuguese.) Cooperativismo [Rio de Janeiro] 4(49):11-12,17-20,16. July 1950. 280.28 C7856

9585 BAYMA, C. Agrarian reform. (In Portuguese.) Agr. e Pecuaria 21(324):19. July 1950. 9.2 Ag89 Brazil.

9586 BELL, E. H., and SCOVILLE, O. J. Part-time farming. U. S. D. A. Farmers' B. 1966, slightly rev., 18 p. Aug.1950. 1 Ag84F

9587 BINNS, SIR B. O. The consolidation of fragmented agricultural holdings. Food & Agr. Organ. United Nations. FAO Agr. Studies 11,99 p. Sept.1950. 28 F73

9588 BLANCHARD, M. Les opérations de remembrement. Agr. Prat. 114:451-452. Oct.1950. 14 J82 France.

9589 BRITTON, D. K. Are holdings becoming larger or smaller? Farm Econ. 6:188-197. Aug.1950. 281.8 F223 Great Britain.

9590 BUONAIUTO, G. Abuses and errors to be eliminated in the expropriation of lands. (In Italian.) Mezzogiorno Agr. 6(40):3. Oct.14/22,1950. 16 M57

9591 CECCARANI, L. The "feudal contract" metayage. (In Italian.) Agricoltore [Perugia] 7(17):1-2. Sept.1/15,1950. 281.8 Ag822

9592 CIARROCCA, V. Peasant population and southern agricultural contracts. (In Italian.) In Milan. Istituto per gli Studi di Economia. Il problema agrario del Mezzogiorno, p. 70-80. Milano, Istituto Editoriale Italiano, 1950. 281.176 M58 Types of leases in Italy.

9593 EHRENFORTH, W. Das recht der siedlung und bodenreform. München, Beck 1949. 1 v. loose leaf. 282.175 Eh8

9594 EL-SHAFIE, M. A. The Arab system of real property and land tenure. Madison? Internatl. Land Tenure Seminar, 1947. 65 p. 282.185 Sh1

9595 EL-SHAFIE, M. A. Land distribution and tenure problem in modern Egypt. Madison? Internatl. Land Tenure Seminar, 1948. 64 p. 282.192 Sh1

9596 ENGEBRETSON, T. O. Agriculture and land reform in Korea. Foreign Agr. 14:231-235. Oct.1950. 1.9 Ec7For

9597 FILENI, E. Collective tenure. (In Italian.) Terra [Firenze] 61(36):3. Sept.3,1950. 16 T274 History of land tenure in various places.

9598 GARCIA ISIDRO, M. De arrendamientos rústicos: el cobro de rentas en 1950. Agricultura [Madrid] 19:382-384. Aug.1950. 15 Ag84

9599 GOWLAND, R. W. Leasing problems resulting from new technologies and suggestions for their solution. Amer. Soc. Farm Mgr. & Rur. Appraisers J. 14:107-109. Oct.1950. 281.8 Am32 Share leases.

9600 HANEGRAFF, C. F. How much did rents increase since 1940? (In Dutch.) Overijsselsch Landtbl. 32(1566):5. Aug.19,1950. 12 Ov2

9601 HEITZ, K. Der aufgabenbereich der diplomlandwirte und ihre mitarbeit bei flurberreinigungsverfahren. Nachr. f. Beratung u. Ausbild. in der Landwirt. 3:85-88. Aug.1950. 18 N11 Germany.

9602 INSTITUTE OF FARM BROKERS. Roster, August 1, 1950. Chicago, 1950. 19 p. 225 In73

9603 IRACI, A. Always ready for the worst (on the agrarian reform). (In Italian.) Agricoltore [Perugia] 7(15/16):1-2. Aug.1/31,1950. 281.8 Ag822

9604 JENSCH, G. Die verschiebung der landwirtschaftlichen produktion bei betriebsgrößenänderungen; ein beitrag zur frage der bodenreform, dargestellt am einzelbeispiel. Ber. z. Deut. Landes. 8:48-53. June 1950. 18 B454



- 9605 JONG, S. H. DE. Preliminary draft of a lease law. (In Dutch.) Netherlands. Landbouwlichtingsdienst. Maandbl. 7:265-272. July 1950. 12 N383M
- 9606 KLOIBER, O. Hüte dein eigentum; dauerhafte und richtige vermarkung der grundgrenzen. Landwirtschaft 1950:228-229. Aug.1950. 19 L235 Austria.
- 9607 LISSNER, W. Land reform in Soviet Germany. Amer. J. Econ. & Sociol. 10:92. Oct.1950. 280.8 Am393
- 9608 LONDON, P. Land and its relation to human happiness. Amer. J. Econ. & Sociol. 10:45-50. Ref. Oct.1950. 280.8 Am393
- Tenure.
- 9609 MAFFRE, R. Première étape de la réforme agraire en Italie. Agence France-Presse. Inform. et Doc. 312:9-10. Oct.7,1950. 280.9 Ag3
- 9610 MAZZOCCHI-ALEMANNI, N. The land reform in Apulia and Lucania. (In Italian.) Agr. Ital. 1:392-397. Aug.1,1950. 16 Ag822
- 9611 MERENDI, A. Forests and the selective reform. (In Italian.) Gior. di Agr. 60:268. Aug.27,1950. 16 It1G
- Land reform.
- 9612 MONTAGNE, R. Le caractère professionnel du droit du statut des baux ruraux. Prog. Agr. et Vitic. 1950:162-164,190-191. Sept.3/10-17/24,1950. 14 P94
- 9613 MONTAGNE, R. Le caractère professionnel tel qu'il ressort des règles du statut des baux ruraux relatives aux preneurs. Prog. Agr. et Vitic. 1950:217-220. Oct.1/8,1950. 14 P94
- France.
- 9614 MONTAGNE, R. La tendance professionnelle dans les institutions électorales créées par le statut des baux ruraux. Prog. Agr. et Vitic. 1950:253-255. Oct.15, 1950. 14 P94
- France.
- 9615 NERI, G. Amendments to the pruning project of the agrarian reform. (In Italian.) Mercanzia 5(8):35-37. Aug.1950. 287 B635
- 9616 PAGANI, A. Distribution of land in the South in relation to the economy. (In Italian.) In Milan. Istituto per gli Studi di Economia. Il problema agrario del Mezzogiorno, p. 63-69. Milano, Istituto Editoriale Italiano, 1950. 281.176 M58
- Italy.
- 9617 PARLAGRECO, A. Land, peasants, and the social community. (In Italian.) Italia Coop. 5(34):1. Sept.9,1950. 280.28 It1
- Land reform.
- 9618 LA REFORME du statut du fermage. Économie 6(268):9-11. Sept.28,1950. 280.8 Ec726
- France.
- 9619 REGAMEY, P., and SINE, L. Notions sur le remembrement des terrains agricoles en Suisse, et spécialement dans le canton de Vaud. Gembloux. Inst. Agron. de l'État B. 17:147-173. Ref. 1948/1949. 105.1 G285
- English summary.
- 9620 RIETTI, R. The conserving metayage; observations on the homonymous article of E. Sereni. (In Italian.) Humus 6(7):16-17. July 1950. 16 H88
- 9621 ROS MARINÉ, M. El tiempo nos dió la razón. Cám. Ofic. Sind. Agr. de Barcelona. B. 5:151-153. June 1950. 15 C14
- Leasing problems.
- 9622 SACO LANFRANCO, P. La redistribución de tierras o reforma agraria. U. Nac. Mayor de San Marcos. Facul. de Cien. Econ. y Com. Rev. 42:53-69. Mar. 1950. 280.8 R328
- 9623 SAVATIER, R. A propos du régime particulier des successions rurales. Rev. de Lég. Agr. 3:105-107. July/Aug.1950. 281.8 R325
- France.
- 9624 SAVATIER, R. Statut du fermage; observations sur le projet de réforme de la Commission de l'Agriculture. Rev. de Lég. Agr. 3:137-142. Sept.1950. 281.8 R325
- France.
- 9625 SCHICKELE, R. Objectives of land policy. In Timmons, J. F., and Murray, W. G., eds. Land problems and policies, p.5-29. Ref. Ames, Iowa State Col. Press, 1950. 282 T48
- Land tenure and utilization.
- 9626 SCHIETHART, L. J. The first step on the road to a new tenant law. (In Dutch.) Econ.-Statist. Ber. 35: 736-738. Sept.13,1950. 280.8 Ec722
- 9627 SCHWEIZERISCHER BAUERNVERBAND. Die bestimmung des pachtzins von obstbäumen. Grüne 78: 963-966. Sept.1,1950. 17 Sch9
- 9628 SERPIERI, A. Emphyteusis and credit for improvements. (In Italian.) Acque Bonifiche Costr. (n.s.) 19:5-6. Jan.1950. 54.8 Ac7
- 9629 SINCOCK, R. L. Three bosses, and they get along. Wash. Farmer 75:712,723. Oct.5,1950. 6 R151
- Partnership farming.
- 9630 STANLEY, R. H. A Mexican pueblo in transition. J. Geog. 49:269-278. Oct.1950. 278.8 J82
- Land reform, ejidos, and farming methods.
- 9631 THINEY, L. H. Contrats spéciaux: bannie d'herbages et vigneronnage. Rev. de Lég. Agr. 3:108-109. July/Aug.1950. 281.8 R325
- French leasing types for grasslands and vineyards.
- 9632 THORPE, J. E. Course for landowners, 1950. Gt. Brit. Min. Agr. Agriculture 57:239-242. Aug.1950. 10 G79J
- 9633 TIMMONS, J. F., and O'BYRNE, J. C. Is your farm lease legal? Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:44-46. Sept.1950. 275.28 I094
- 9634 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Bankhead-Jones Farm Tenant Act amendments. Hearing, 81st Cong., 2d sess. on H. R. 7268. May 11,1950. Washington, 1950. 21 p.
- 9635 VALKO, L. What about land reform? Farm Policy Forum 3(10):28-30. Oct.1950. 281.8 F2274
- With reference to Hungary.
- 9636 WILLIAMS, F. A. Hunter-farmer relationship. Oreg. State Game Com. B. 5(9):1,6-7. Sept.1950. 412.9 Or33
- 9637 WOODWORTH, H. C. Farm leases. N. H. Agr. Col. Ext. C. 298,6 p. June 1950. 275.29 N45C
- 9638 YOHE, R. S. Where landlords, tenants agree; new laws appear to give British tenant the upper hand. Prairie Farmer, Gen. Ed. 122(18):6. Sept.16,1950. 6 P883
- 9639 ZANNONI, I. Aspects of the land reform. (In Italian.) Colt. e Gior. Vinic. Ital. 96:251-252. Sept.30, 1950. 16 C72

## Land Utilization

- 9640 BAVARIA. STATISTISCHES LANDESAMT. Landwirtschaftliche betriebszählung vom 22. mai 1949; die betriebe mit landwirtschaftlich u. forstwirtschaftlich benutzter fläche. Bayer. Statist. Landesamt. Beitr. z. Statist. Bayerns 153,447 p. Aug.1950. 265 B32S
- 9641 CHEN, C. S. Atlas of land utilization in Taiwan n.p., Natl. Taiwan U., 1950. 121 p. 281.183 C42
- 9642 GRIFFITH, E. S. Recreational land problems and policies. In Timmons, J. F., and Murray, W. G., eds. Land problems and policies, p.173-190. Ref. Ames, Iowa State Col. Press, 1950. 282 T48
- 9643 HERLIHY, E. M. Surveys and maps required at the State planning level. Surveying & Mapping 10:219-224. July/Sept.1950. 325.8 Am3
- Land planning.
- 9644 HOCKENSMITH, R. D., and STEELE, J. G. Recent trends in the use of the land-capability classification. Soil Sci. Soc. Amer. Proc. 1949(14):383-388. 1950. 56.9 So3
- 9645 HOLLAND, F. G. An act of peace or war? 1-3. Farmers Wk. [London] 33(12):56; (13):54; (14):53. Sept.22-Oct.6,1950. 10 F2226
- Legal position of landowner in relation to footpaths.
- 9646 JOHNSON, S. E. Principles of land utilization. In Timmons, J. F., and Murray, W. G., eds. Land problems and policies, p.59-81. Ref. Ames, Iowa State Col. Press, 1950. 282 T48
- 9647 JOHNSON, V. W. Planning the use of land resources. In Timmons, J. F., and Murray, W. G., eds. Land problems and policies, p.235-251. Ref. Ames, Iowa State Col. Press, 1950. 282 T48
- 9648 MCHARDY, L. J., and HOLMES, J. Y. Farming an airfield; a problem of restoration. Gt. Brit. Min. Agr. Agriculture 57:201-204. Aug.1950. 10 G79J
- In England.
- 9649 MACKAYE, B. Dam site vs. norm site. Sci. Mon. 71:241-247. Oct.1950. 470 Sci23
- Land use.
- 9650 MCLEOD, D. What we've done to our land. Lincoln Col. Rur. Educ. B. 5:102-106. Aug.1950. 109 C162
- Human relationship to the land in New Zealand.



9651 MENDES, C. T. Land utilization. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 25:242-253. July/Aug. 1950. 9.2 R324

9652 OTREMB, E. Veränderungen im bilde der deutschen kulturlandschaft Juli-dezember 1949. *Ber. z. Deut. Landesk.* 8:22-45. Ref. June 1950. 18 B454  
Includes changes in land use and settlement.

9653 PATTESON, G. W., and FULTON, Z. M. K., JR. Economic land/classification of Carroll County. *Va. Agr. Expt. Sta. B.* 442, 19 p. Sept. 1950. 100 V81S

9654 PATTESON, G. W., HARRIS, A. J., and FULTON, Z. M. K., JR. Economic land classification of Charlotte County. *Va. Agr. Expt. Sta. B.* 441, 19 p. Sept. 1950. 100 V81S

9655 SHAY, F. M. General welfare is poorly served by subdividing most fruitful orchards. *Sunsweet Standard* 34(5):8. Oct. 1950. 286.83 Su7

Use of fertile lands for residential purposes.

9656 VINE, R. Good land waiting; vast scope still for development of virgin lands. *New Zeal. Farmer* 71: 3-5. Aug. 17, 1950. 23 N484

9657 WAY, G. S. New type of pioneers needed in Ontario; re-claiming worn out and thorn-covered land in south-western Ontario takes imagination and a new know-how. *Family Herald & Wk. Star* 81(39):8, 21. Sept. 28, 1950. 7 F21

#### Land Values and Valuation

9658 ENGLEHORN, V. A. Problems of appraisal under a grassland farming system. *Amer. Soc. Farm Mgr. & Rur. Appraisers J.* 14:98-102. Oct. 1950. 281.8 Am32

9659 PASTO, J. K. Land turnover and assessed values on marginal agricultural land in Broome County, New York. *N. Y. Agr. Col. Farm Econ.* 175:4522-4526. July 1950. 280.8 C812

9660 SOUTHERN, J. H., and MOTHERAL, J. R. Texas farm and ranch land prices, 1949. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1271, 7 p. Sept. 13, 1950. 100 T31P

9661 U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm real estate market activity in twelve western counties, 1941-48, by O. Fuqua. Washington, 1950. 53 p. 1.941 L8F224

9662 WATT, C. W. The valuation of sheep and wheat lands. *Valuer* 11:114-119. July 1, 1950. 282.8 V24

#### POPULATION

9663 AITON, E. W. Population facts regarding young adults. (Excerpts.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:213-215. 1950. 4 As7

Farm and rural population.

9664 ANGELINA, P. N. Ljudi kolkhoznykh polei [People of the collective farm fields]. Petrozavodsk, Gos. Izd-vo Karelo-Finskoi SSR, 1950. 124 p. (Biblioteka Kolkhoznika) 283 An4  
Includes labor.

9665 BOURGEOIS-PICHAT, J. La structure de la population et la sécurité sociale. *Population* 5:435-492. July/Sept. 1950. 280.8 P812

Includes French agricultural population.

9666 DALMASSO, G. A difficult problem: mountain depopulation. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:199-200. July 31, 1950. 16 C72

9667 GERMANY. TERRITORY UNDER ALLIED OCCUPATION. RUSSIAN ZONE. DEUTSCHE WIRTSCHAFTSKOMMISSION. Volks- und berufszählung vom 29. oktober 1946 in der Sowjetischen Besatzungszone Deutschlands. IV. Sowjetische Besatzungszone. Berlin, 1949. 243 p. 265 G316

9668 LE COQ, F. L'émigration et l'immigration rurale. (Extr.) *Unité Paysanne* 5(252):4. Sept. 23, 1950. 14 Un3

France.

9669 MING, P. E. Gedanken zur landflucht. *Agrarpolit. Rev.* 7(54):40-62. Sept. 1950. 281.8 Ag824  
Switzerland.

9670 MÜLLER, W. E. Dingliche patenschaften für flüchtlinge. *Hannoversche Land- u. Forstwirtschaft. Ztg.* 103: 332. Apr. 1, 1950. 18 H194

9671 SWOBODA, W. Zur eingliederung der vertriebenen. *Bayern in Zahlen* 4:375-376. Aug. 1950. 265 B34

Includes rural population.

9672 THOMPSON, W. S. World population trends, problems, and policies. In Timmons, J. F., and Murray, W. G., eds. *Land problems and policies*, p. 31-44. Ames, Iowa State Col. Press, 1950. 282 T48

9673 UNITED NATIONS. SECRETARY GENERAL. Information on co-operation in the field of migration programmes of the United Nations and specialized agencies. [Lake Success?] United Nations, 1950. 31 p. (United Nations. [Doc.] E/1685) 282.2 Un392  
Contains a section on the work of the Food and Agriculture Organization.

9674 VANDIVER, J. S. The reproductive pattern of the rural Negroes of the Yazoo-Mississippi Delta. *Social Forces* 29:78-84. Oct. 1950. 280.8 823

9675 VITO, F. Italian emigration and colonization in the Americas. (In Italian.) *Mondo Aperto* 4:155-161. June/Aug. 1950. 280.8 M743

#### RURAL SOCIAL ORGANIZATION

9676 BAGÜ, S. La clase media en la Argentina. *Union Panamér. Ofic. de Cien. Sociales. Mater. para el Estud. de la Cl. Media en la Amér. Latina* 1:34-65. 1950. 150.91 M41

9677 BELL, A. The flower and the wheel. London, Bodley Head, 1949. 168 p. 281.2 B41F  
Rural life.

9678 BERTRAND, A. L. Some social implications of the mechanization of southern agriculture. *Sowest. Social Sci. Q.* 31:121-129. Ref. Sept. 1950. 280.8 So82

9679 BIDARD, M. The enforcement of social legislation in French agriculture. *Internatl. Labour Rev.* 62: 19-30. July 1950. 283.8 In8  
Includes labor legislation.

9680 BIESANZ, J. The middle class in Panama. *Union Panamér. Ofic. de Cien. Sociales. Mater. para el Estud. de la Cl. Media en la Amér. Latina* 4:1-15. 1950. 150.91 M41

9681 BINDER, F. Neues leben im alten dorf. *Allgäuer Bauernbl.* 18:445-447. Aug. 10, 1950. 18 AL53

9682 BRUGAROLA, M. El problema social en el campo español. Madrid, Agencia General de Librería y Artes Gráficas, 1950. 295 p. (Biblioteca Fomento Social) 281.176 B83

9683 CAMPBELL, C., and HOOPER, O. The middle class of Panama. *Union Panamér. Ofic. de Cien. Sociales. Mater. para el Estud. de la Cl. Media en la Amér. Latina* 4:38-75. 1950. 150.91 M41

9684 FOSCHI, M. Human and social environment in the reclamation of Tavoliere. (In Italian.) *Agr. Ital.* 1: 371-373. Aug. 1, 1950. 16 Ag822

9685 GROMPONE, A. M. Las clases medias en el Uruguay. *Union Panamér. Ofic. de Cien. Sociales. Mater. para el Estud. de la Cl. Media en la Amér. Latina* 1:76-91. 1950. 150.91 M41

9686 HEPPLER, L. M., and BRIGHT, M. L. Social changes in Shelby County, Missouri. *Mo. Agr. Expt. Sta. Res. B.* 456, 35 p. Mar. 1950. 100 M693

9687 HOWALD, O. Die sozialen probleme der bäuerlichen wirtschaft und ihre bedeutung für die westliche zivilisation. *Agrarpolit. Rev.* 6:433-449. July/Aug. 1950. 281.8 Ag824

Particular reference to Switzerland.

9688 JIMÉNEZ DE LÓPEZ, G. La clase media en Panamá. *Union Panamér. Ofic. de Cien. Sociales. Mater. para el Estud. de la Cl. Media en la Amér. Latina* 4:16-37. 1950. 150.91 M41

9689 KYGER, F. A. Let's make plans for better farm living. *Shorthorn World* 35(14):56-59, 86-88. Oct. 10, 1950. 43.8 Sh8

9690 LOPEZ VILLAMIL, H. Estudio de la clase media en Honduras. *Union Panamér. Ofic. de Cien. Sociales. Mater. para el Estud. de la Cl. Media en la Amér. Latina* 4:76-89. 1950. 150.91 M41

9691 MARIAS, J. El campesino y su mundo. *Asoc. Nac. de Ingen. Agrón. B. Ofic. (ser. 2)* 1:158-160. Mar. 1950. 58.9 As5  
Spain.

9692 MARTIN, S. W. Villages and villagers. *Estate Mag.* 50:345-349. Sept. 1950. 10 Es8  
English rural life.

9693 OVERTON, C. F. Fifty years sheep farming in Canterbury, Otago and Southland. *Dunedin, N. Z., Otago Daily Times and Witness Newspapers*, 1949. 100 p. 120 Ov2  
Rural life.



- 9694 PLANG, M. Sunrise to sunset in a Moro village. *Foreign Agr.* 14:220-222. Oct.1950. 1.9 Ec7For
- 9695 POVINA, A. Concepto de la clase media y su proyección argentina. *Union Panamér. Ofic. de Cien. Sociales. Mater. para el Estud. de la Cl. Media en la Amér. Latina* 1:66-75. 1950. 150.91 M41
- 9696 REGIONAL POST-CONFERENCE WORKSHOP FOR LIBRARIANS AND RURAL SOCIOLOGISTS. Report of the proceedings. n.p.,1949. 37 p. 243.9 R26
- 9697 RIORDAN, M. The Irish mule traders. *Amer. Cattle Prod.* 32(5):9-10,25-28. Oct.1950. 49 P94
- 9698 RUFIN, G. Quelques aspects de la vie rurale aux U.S.A. *Jura Agr. (n.s.)* 61:1. Oct.15,1950. 14 J97
- 9699 SALVADOR GUANDIQUE, J. Noción y aspectos de la clase media en El Salvador. *Union Panamér. Ofic. de Cien. Sociales. Mater. para el Estud. de la Cl. Media en la Amér. Latina* 4:113-119. 1950. 150.91 M41
- 9700 SALVATIERRA, S. Ensayo sobre la clase media en Nicaragua. *Union Panamér. Ofic. de Cien. Sociales. Mater. para el Estud. de la Cl. Media en la Amér. Latina* 4:90-112. 1950. 150.91 M41
- 9701 SATYAN, T. S. Rural land with an ageless tradition. *Co-op Grain Q.* 8(3):14-15. Sept.1950. 280.28 C7898
- Rural life in India.
- 9702 VIDART, D. Esquema de una sociología rural uruguaya. III-XIII. Uruguay. Min. de Ganad. y Agr. B. *Inform.* 324:6,325;17,326;4,327;12,328;15,329;13,330;10,331;10,332;10,333;18,335;10. June 8-Aug.10,24,1950. 9.9 G15B
- 9703 WARBURTON, A. A. A rural community plans for guidance of its boys and girls. *Child* 15:60-64,69. Nov.1950. 158.2 C483
- 9704 WILLIAMS, C. Alpine aristocracy. *Countryman [Burford]* 42:69-73. Autumn 1950. 281.28 C832
- Swiss social organization.
- Human Ecology
- 9705 AGRANOVSKII, A. Po starym russkim slobodam [Through old Russian villages]. Moskva, Gos. Izd-vo Selkhoz Lit-ry,1950. 85 p. 281.2 Ag82
- 9706 BLACK, J. D. The rural economy of New England; a regional study. Cambridge, Harvard U. Press, 1950. 796 p. 281.004 B56
- 9707 BONHAM-CARTER, V. What is happening to our [English] villages? *Farmers Wk. [London]* 33(9):53. Sept.1,1950. 10 F2226
- 9708 FRANK, B., and NETBOY, A. TVA's unfinished business. *Yale Rev.* 40:43-58. Sept.1950. 110 Y1
- 9709 HALL, W. D. Rural communities in India. *Rur. Missions* 76:8. Autumn 1950. 281.28 Ag8
- 9710 HEARN, L. T. A geographic study of the village of Cotacollao, Ecuador. *J. Geog.* 49:225-231. Sept.1950. 278.8 J82
- 9711 ISLEY, F. E. A community steps through the looking glass; villager-farmer cooperation has built a remarkable basis for a "wonderland" in Richfield Springs, New York. *Dairymen's League News* 34(23):3, 9,15. (To be cont.) Nov.14,1950. 44.8 D1432
- 9712 KRÜGER, K. Wirtschaft und planung in Pakistan. *Z. f. Raumforsch.* 1950:185-191. 282.8 Z3
- Regional planning.
- 9713 LYONS, W. H. Old schoolhouse gets a new job. *Capper's Farmer* 61(11):15,63. Nov.1950. 6 M693
- Rural recreation and social centers.
- 9714 MCKINLEY, C. The Valley Authority and its alternatives. *Amer. Polit. Sci. Rev.* 44:607-631. Sept. 1950. 280.8 Am33
- 9715 MÜLLER, G. Statistik als eine grundlage der landesplanung. *Z. f. Raumforsch.* 1950:147-153. 282.8 Z3
- 9716 PRAGER, S. Aufgaben der landesplanung im lande Nordrhein-Westfalen. *Z. f. Raumforsch.* 1950:105-110. 282.8 Z3
- 9717 SCHLIER, O. Regionale struktur von wirtschaft, besiedlung und verkehr in Europa. *Deut. Inst. f. Wirtforsch. Sonderh.* 7,78 p. 1950. 280.9 B45Vs
- Includes agriculture and forestry and village structure.
- 9718 SCHWIND, M. Typisierung der gemeinden nach ihrer sozialen struktur als geographische aufgabe. *Ber. z. Deut. Landesk.* 8:53-68. June 1950. 18 B454
- 9719 STANISLAWSKI, D. The anatomy of eleven towns in Michoacán. *Tex. U. Inst. Latin-Amer. Studies. Latin-Amer. Studies* 10,77 p. 1950. 280.14 St2
- 9720 STEWARD, J. H. Area research; theory and practice. *Social Sci. Res. Council B.* 63,164 p. 1950. 281.29 So1
- Includes community and regional studies.
- 9721 TRAMPLER, K. Notstandsgebiet Ostbayern. *Z. f. Raumforsch.* 1950:110-114. 282.8 Z3
- 9722 U. S. EXTENSION SERV. Challenges of the changing community and town-country churches, by E. J. Niederfrank. Washington, 1950. 19 p. 1.913 A2C354
- 9723 VIRGINIA ACADEMY OF SCIENCE. JAMES RIVER PROJECT COMMITTEE. The James River Basin, past, present and future. Richmond, 1950. 843 p. 138 V812
- 9724 WAKELEY, R. E. A revolution in rural community life. *Calif. Farmer, North. Ed.* 193:219. Sept.9, 1950. 6 C126
- 9725 ZEUGER, H. A cooperative community for vegetarians. *Coop. Living* 2:13-15. Fall 1950. 280.28 C7871
- Institutions
- 9726 ABRAMS, H. K. Occupational illness due to agricultural chemicals, 1949. *Calif. Health* 8:35-36. Sept.15,1950. 449.8 C12
- 9727 ADAMS, G. Trends in home economics research. (Abs.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:234. 1950. 4 As7
- In land-grant institutions.
- 9728 AHMED, S. M. Development of cottage industries in East Bengal. *Karachi Com.* 3(29):3-4. June 24, 1950. 280.8 K14
- 9729 ALLUE MORER, A. A los cantadores agrícolas el folklore se los llevó. *Ceres [Valladolid]* 15(171):13-14. Sept.1,1950. 15 C33
- 9730 AMARAL, L. Intensive course in cooperation. X. Health cooperatives. (In Portuguese.) *Soc. Rur. Brasil. Rev.* 30(356):28-30. July 1950. 9.2 B733
- 9731 ANDERSON, E. Public policy on health as it affects rural people. (Sum.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:133-134. 1950. 4 As7
- 9732 ANDERSON, E. L. Health services build better health. *J. Home Econ.* 42:644-646. Oct.1950. 321.8 J82
- 9733 ASSOCIATION OF LAND-GRANT COLLEGES AND UNIVERSITIES. Proceedings, sixty-third annual convention, Kansas City, Missouri, October 25-27, 1949. n.p.,1950. 313 p. 4 As7
- 9734 ATHERTON, J. C. Conferences with supervising teachers. *Agr. Educ. Mag.* 23:95. Oct.1950. 275.8 Ag8
- 9735 AUGER, A. L'agronome et les concours de fermes. *Agriculture [Montreal]* 7:120-126. Summer 1950. 7 Ag82
- Advisory services.
- 9736 BARDEN, R. D. Working with wood. II. Farm mechanics 4-H Club. *Ohio. Agr. Col. Ext.* 4-H C. 104, rev.39 p. Feb.1950. 275.29 Oh322
- 9737 BARREDA, J. A. La profesión del ingeniero agrónomo. *Vida Agr. [Lima]* 27:555,557,559,561. July 1950. 9.8 V66
- Education.
- 9738 BECKER, F. Förderung der landwirtschaftlichen berufsschule. *Bad. Landwirt. Wchnbl.* 117:578-579. Aug.26,1950. 18 B142
- 9739 BENTON, W. E. The county home rule movement in Texas. *Sowest. Social Sci. Q.* 31:108-120. Ref. Sept.1950. 280.8 So82
- 9740 BERKENKAMP. Landfrauen! Euch ruft die Westfalenschau Hamm! *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1157. Aug.24,1950. 18 L2346
- 9741 BERNAUT, E. Polish peasant autobiographies. *Mich. U. Microfilm Abs.* 10(3):137-138. 1950. 241.8 M58
- 9742 BILLINGS, B. E. State and National Home Demonstration Week. (Abs.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:218-219. 1950. 4 As7
- 9743 BLAIR, G. B. The farmers' business. *Grain Prod. News* 3(5):11-12. Oct.1950. 286.81 G764
- Political influence and taxation.
- 9744 BREA ZEALE, C. Farm women's gifts aid hospital. *Ext. Serv. Rev.* 21:177. Oct.1950. 1 Ex892Ex
- 9745 BRYAN, R. E. Articles made from corn shucks. *N. C. Agr. Col. Ext. Misc. Pam.* 119(B),11 p. Aug.1950. 275.29 N811M



- 9746 BUCHANAN, M. C. Working with administration and faculty. *Agr. Educ. Mag.* 23:83,87. Oct.19501 275.8 Ag8
- 9747 BUHLE. Aus eigener kraft! Gedanken zur "Westfalenschau 1950" in Hamm. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1135-1136. Aug.24,1950. 18 L2346
- 9748 BURSON, L. The home agent's contribution. *J. Home Econ.* 42:727-728. Nov.1950. 321.8 J82 In family life.
- 9749 BUSK, K. A little about the domestic science within the agricultural organizations. *Tidsskr. f. Husholdning* 29:107-108. Sept.6,1950. 321.8 T43
- 9750 CAMP, B. New light for darkened churches. *Successful Farming* 48(10):34-35,110-112. Oct.1950. 6 Su12
- Rural churches reopened by the Simpson College, Iowa, Student Group Ministry Project.
- 9751 CARPIO, F. Con motivo de la I Feria Nacional del Campo. Badajoz. Diputación Prov. B. de Inform. Agr. y Ganad. 8(78):31-32. Mar./July 1950. 15 B14
- 9752 CARTER, H. State library has proposal for extension. *Hoosier Farmer* 35(11):30. Nov.1950. 280.82 H76
- 9753 CASALINI, M. Peasant instruction. (In Italian.) *Gior. di Agr.* 60:294. Sept.17,1950. 16 It1G Italy.
- 9754 CASALINI, M. Professional instruction. (In Italian.) *Agr. Ital.* 1:369-371. Aug.1,1950. 16 Ag822 For farmers.
- 9755 CLOUGH, R. S., and LINDSAY, C. Teaching by demonstration. *Mo. Agr. Col. Ext. 4-H C.* 100,18 p. July 1950. 275.29 M69B
- 9756 COFFIN, R. F. Policies of cooperation between agricultural education and extension. *Agr. Educ. Mag.* 23:78,93. Oct.1950. 275.8 Ag8 Vermont.
- 9757 COKER, J. A. Tourism and the peasant in the Grisons. *Scot. Geog. Mag.* 66:107-116. Sept.1950. 472 Sco8
- 9758 COLLINGS, M. L. Summary: what have we learned from the review of extension work with young adults. (Abs.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:216-217. 1950. 4 As7
- 9759 CONDON, M. M. The rural school in Montana. *Mont. Farmer-Stockman* 38:1,16. Sept.1,1950. 6 M764
- 9760 CROCKETT, F. S. Program of the Rural Health Committee of the American Medical Association. (Sum.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:134-135. 1950. 4 As7
- 9761 CROCKETT, F. S. Rural health today. *Ind. State Bd. Health. Mon. B.* 53:175-176,187-188. Aug.1950. 449.7 In2M
- 9762 DAIGLE, J. L'Ecole d'Agriculture Notre-Dame des Erables. *Foyer Rur. [Montreal]* 10:11. Oct. 1950. 7 F83 Canada.
- 9763 DAVIS, N. Crafts in the Southern Highlands. *Mountain Life & Work* 26(2):5-7. Summer 1950. 281.28 M86
- 9764 DIAZ, N. 10 years of farm broadcasting [Puerto Rico]. *Ext. Serv. Rev.* 21:147. Sept.1950. 1 Ex893Ex
- 9765 DICKERMAN, R. M. Problems in the local administration of departments of vocational agriculture. *Agr. Educ. Mag.* 23:83. Oct.1950. 275.8 Ag8 Data from unpublished theses.
- 9766 DONOSO, M. El maestro rural es el agente más interesante en el mejoramiento de nivel cultural agrícola del país. *Rev. de Agr., Com. e Indus. [Panama]* 8(107):16-20. July 1950. 8 R3291
- 9767 EBERLY, N. M. New technique helps you reach and teach more farmers. *Agr. Leaders' Digest* 31(9):13-14. Oct.1950. 275.28 Am3 Extension work.
- 9768 EGAN, E. A. Fresno State Ag program; student workshop teaches by "doing." *West. Fruit Grower* 4(8):15-16. Aug.1950. 95.8 G762
- 9769 ENGELHARDT, J. H. Een en ander over landbouwonderwijs en landbouwkundig wetenschappelijk onderzoek [Observations on agricultural education and agricultural scientific research]. *Groningen, Wolters*, 1949. 16 p. 275.1 En3
- 9770 ENNESCH, C. La Foire aux Sorciers et Birettes de Bué-en-Sancerre. *Vitic. Arbor.* 95:324-325. Nov.1949. 95.8 R322
- 9771 LES ETABLISSEMENTS de formation professionnelle en milieu rural. *Fiches Rur.* 61,86 p. Sept. 1950. 281.8 F44 A directory for France.
- 9772 FAHRINGER, F. D. L. G.-Ausstellung in Frankfurt a. M. *Kärntner Bauer* 100:267-271. Aug.10,1950. 19 K14
- 9773 FARRELL, F. D. Kansas rural institutions: VI. Holcomb Consolidated School. *Kans. Agr. Expt. Sta. C.* 266,44 p. Aug.1950. 100 K13S
- 9774 FINK, L. C. American farm school in Greece. *Nation's Agr.* 25(9):13-14. Oct.1950. 280.82 B89
- 9775 FITZWATER, C. O. Common goals for rural educators and geographers. (Excerpts.) *J. Geog.* 49:239-242. Sept.1950. 278.8 J82
- 9776 FOCKEN. Die ausbildung unseres nachwuchses in der landwirtschaft. *Landwirtbl. Weser-Ems* 36:734-735. Sept.6,1950. 18 L2345
- 9777 FREEMAN, J. N. Placement-farming programs should pave the way for placement. *Agr. Educ. Mag.* 23:92-93. Oct.1950. 275.8 Ag8 Negroes.
- 9778 FREEMAN, V. C. National legislation affecting agricultural instruction. (Sum.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:143-144. 1950. 4 As7
- 9779 GARRETT, E., and BRYAN, R. E. Metal work. *N. C. Agr. Col. Ext. Misc. Pam.* 119(A),8 p. Aug.1950. 275.29 N811M
- 9780 GEORGIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1949 annual report. *Ga. Agr. Col. Ext. B.* 566,19 p. June 1950 275.29 G29
- 9781 GONZÁLEZ REBOLLO, A. Agrónomos, agricultores y labradores. *Ceres [Valladolid]* 15(171):10-11. Sept.1,1950. 15 C33 Advisory services for Spain.
- 9782 GROVES, W. F. Rural free delivery. *Dairy-land News* 20(9):5. Sept.1950. 280.28 W752
- 9783 GUARNIERI, J. C. El gaucho, su leyenda y su historia. *Asoc. Rur. del Uruguay Rev.* 77(7):22-24,26-27; (8):90-94. July-Aug.1950. 9.9 As5
- 9784 HAKANSSON, R. Agricultural information in U. S. A.; five million bulletins are distributed annually by the United States Department of Agriculture. (In Swedish.) *Lantmannen* 34:731-732. Sept.23,1950. 11 L234
- 9785 HALL, H. W. What should we expect of our schools? *Nation's Agr.* 25(10):10,20. Nov.1950. 280.82 B89
- 9786 HANNAH, J. A. Nor lose the common touch. *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:40-50. 1950. 4 As7 On the system of land-grant colleges and universities.
- 9787 HASHMI, Z. A. Adult education programme for farmers in Pakistan. (Abs.) *Co-op. & Mktg. Rev.* 4:248-249. July 1950. 280.28 C78243
- 9788 HATCH, D. S. Concepto sobre el centro rural como medio para mejorar las condiciones de la población campesina, su agricultura y su vida en general. *Washington, 1949?* 11 p. 275.24 H28 Issued by Food and Agriculture Organization of the United Nations and Inter-American Institute of Agricultural Sciences. Costa Rica.
- 9789 HEARNE, C. C. Extension workers on cooperative study leave, September 1948-September 1949. (Sum.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:195. 1950. 4 As7
- 9790 HEIDEMAN, K. K. A view of present day factors which bear on the educational needs of young farmers. *Agr. Educ. Mag.* 23:91,93. Oct.1950. 275.8 Ag8
- 9791 HILL, L. Closing the gaps in rural health. *Prog. Farmer, Tex. Ed.* 65(10):48,50. Oct.1950. 6 T311
- 9792 HINE, M. K. Dental problems in rural areas. *Ind. State Bd. Health. Mon. B.* 53:177,190-191. Aug.1950. 449.7 In2M
- 9793 HORLACHER, L. J. Enrollment data and trends among agricultural students. (Abs.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949)63:141. 1950. 4 As7
- 9794 HOWARD, C. G. Relationships. *Agr. Educ. Mag.* 23:79. Oct.1950. 275.8 Ag8
- 9795 HUTCHESON, T. B. How agricultural colleges serve students. *Prog. Farmer, Carolinas-Va. Ed.* 65(10):17,133. Oct.1950. 6 P945



- 9796 HUTCHINSON, C. B. The role of the land-grant institutions in international affairs. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:165-166. 1950. 4 As7
- 9797 HUTCHISON, C. S. Counseling, testing and guidance. Assoc. Land-Grant Col. & Univ. Proc. (1949) 63:141-143. 1950. 4 As7  
In land-grant colleges.
- 9798 IABLOKOV, V. On strengthening collective farm [Communist] Party organizations. (In Russian.) Bol'shevik 27(16):52-56. Aug.1950. 280.8 B633
- 9799 IMLAY, F. Play equipment for boys and girls. Ky. Agr. Col. Ext. C. 481,12 p. June 1950. 275.29 K415
- 9800 ISLEY, R. T. Rural industrial development: Tar Heel rural industry continues rapid growth. Carolina Farmer 5(9):8-9,25. Sept.1950. 6 C223
- 9801 JARAMILLO ALZATE, J. Por la educación rural en Colombia. U. de Antioquia 25:225-230. May/July 1950. 110 Un3
- 9802 JEAN-MARIAT, M. Une exposition rurale en France. Foyer Rur. [Montreal] 10:5,4. Oct.1950. 7 F83
- 9803 JOHNSTON, H. L. Rural health cooperatives. Pub. Health Rpts. 65:1383-1397. Ref. Oct.27,1950. 151.65 P96
- 9804 JOHNSTON, L. Farm Women's Union of Alberta: adult education. Organized Farmer 9(19):2-3. Sept.1950. 281.8 Or32
- 9805 JOHNSTON, T. R. Indiana farm women sing in the Nation's capital. Ext. Serv. Rev. 21:171,176. Oct. 1950. 1 Ex892Ex
- 9806 KREITLOW, B. W. A study of the teaching of letter writing in the sixth grade of graded and ungraded rural schools. J. Educ. Res. 44:22-29. Sept.1950. 275.8 J824
- 9807 KIVLIN, V. E. Training of personnel in extension and vocational agriculture. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:146-148. 1950. 4 As7
- 9808 KVAAL, L. Impressions from the 40th German migratory exhibition. (In Norwegian.) Landbrukstidende 56:583-586. July 26,1950. 11 L236
- 9809 LANEY, W. Agricultural course at Waitaki Boys' High School, Oamaru. Lincoln Col. Rur. Educ. B. 5:86-88. July 1950. 109 C162
- 9810 LEAGANS, J. P. Graduate training in extension education. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:195-197. 1950. 4 As7
- 9811 LENOIR, E. An interpretation of home demonstration work through State and National Home Demonstration Councils. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:221-222. 1950. 4 As7
- 9812 LIONBERGER, H. F. Reception and use of farm and home information by low-income farmers in selected areas of Missouri. Mich. U. Microfilm Abs. 10(3):251-252. 1950. 241.8 M58
- 9813 LOUISIANA. DEPT. OF EDUCATION. INSTITUTIONAL ON-FARM TRAINING. A catalogue of films available for the use of Institutional On-Farm Training classes. Baton Rouge, State Supt. Educ., 1949. 66 p. 241 L932
- 9814 LUCAS, S. W. American farmers and the future of the free world. Soybean Digest 10(11):22-24. Sept.1950. 60.38 So8
- 9815 LUPPEN, P. A. Agricultural education in the junior high schools of California. Stanford U. Abs. Diss. (ser.8)35:441-443. Nov.30,1949. 241.8 St2
- 9816 LYCHE, J. Agricultural education and general education. (In Norwegian.) Norsk Landb. 16:312-314. Aug.18,1950. 11 N8122
- 9817 MCALLISTER, B. From raw resource to finished craft at Alpine. Mountain Life & Work 26(2):8-11. Summer 1950. 281.28 M86
- 9818 MCCLURE, W. W. Strengthening relationships and understanding between the principal and teacher. Agr. Educ. Mag. 23:76,82. Oct.1950. 275.8 Ag8
- 9819 MCINTOSH, D. C. Training of vocational agriculture teachers. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:194. 1950. 4 As7
- 9820 MCPHEE, J. A. Vocational education needs no defense; but here's an apt reply to critics that vo-ag teachers might jot down for future reference. Natl. Co. Agent & Vo-Ag Teacher 6(10):15. Oct.1950. 275.28 N213
- 9821 MAES, E. E. La escuela rural en Guatemala en relación con la extensión agrícola. Washington, 1949? 8 p. 275.24 M26  
Issued by Food and Agriculture Organization of the United Nations and Interamerican Institute of Agricultural Sciences.
- 9822 MALUCK, P. Die bedeutung der natürlichen lehrmittel für die landwirtschaftlichen berufsschulen. Nachr. f. Beratung u. Ausbild. in der Landwirt. 3:88-89. Aug.1950. 18 N11  
Germany.
- 9823 MARIANO, E. F.F.A. co-op possibilities in the vo-ag program. Agr. Educ. Mag. 23:89. Oct.1950. 275.8 Ag8
- 9824 MARTIN, R. Oklahoma schools are moving out of the country into town. Farmer-Stockman 53,1.e.63 (10):8,44. Oct.1950. 6 Ok45
- 9825 MATELA, A. G. CLAS [Central Luzon Agricultural School] and improvement of community living in 1949-1950. Plowman 5(10/11):2-3,41. July/Aug.1950. 276.8 P72
- 9826 MERCIER, E. La centralisation des écoles supérieures d'agriculture. Agriculture [Montreal] 7:190-195. Summer 1950. 7 Ag82
- 9827 MERGEN. Von der landwirtschaftsprüfung. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1160-1161. Aug.24,1950. 18 L2346
- 9828 MEURLING, M. A new school for machinists; Jordhammar's machine and agricultural school, Odsmal. (In Swedish.) Lantmannen 34:623,632. Aug.12,1950. 11 L234
- 9829 MILLIGAN, M. C. Is recreation really so important? Mountain Life & Work 26(2):14-15. Summer 1950. 281.28 M86
- 9830 MOORE, L. Everyday manners for 4-H boys and girls. Okla. Agr. Col. Ext. C. 529,12 p. n.d. 275.29 Ok41C
- 9831 MOORE, L. Half way up the stairs. Okla. Agr. Col. Ext. C. 524,8 p. n.d. 275.29 Ok41C  
The child of school age in the family.
- 9832 MORGAN, D. H. Enrollment trends in graduate schools of land-grant colleges and universities. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:178-179. 1950. 4 As7
- 9833 MÜGGE. Die lehrschauen der Landwirtschaftskammer auf der Westfalenschau. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1140-1141. Aug.24,1950. 18 L2346
- 9834 MUNOZ MARÍN, I. M. DE. Vocación y recreo de la juventud campesina. P. R. Agr. Col. Ext. Carta Mens. 8,1.e.7(5):1-2. Aug.1950. 275.29 P96Ca
- 9835 MYERS, K. L. Lernen die amerikanischen landkinder mehr? Ein überblick über die erziehungs- und unterrichtsmethoden und möglichkeiten für landkinder in Amerika. Landfrau 5(8):22. Aug.1950. 18 L2337
- 9836 NAIDU, K. S. Our cottage industries. Madras J. Co-op. 42:79-85. Aug.1950. 280.28 M26
- 9837 NETTLETON, A. Books for country folk. Estate Mag. 50:353-354. Sept.1950. 10 Es8  
Library service in rural England.
- 9838 NORWAY. LANDBRUKSDIREKTØREN. Melding om jordbruksskulane for 1945/46 [Report on the agricultural schools]. Oslo, 1950. 56 p. (Årsmelding-Tillegg L) 11 C46L
- 9839 OLMSTEAD, P. D. "Wreck-reation" versus "re-creation." Town & Country Church 64:1-2. Oct. 1950. 281.28 T66
- 9840 ONTARIO AGRICULTURAL COLLEGE AND EXPERIMENTAL FARM. Seventy-fourth annual report, 1949. Guelph, 1950. 110 p. 101 On8
- 9841 ORMOND, F. Comment maintenir les jeunes a la campagne. Foyer Rur. [Montreal] 9(12):8. Sept. 1950. 7 F83  
Development of rural industries in Great Britain.
- 9842 OSTERLOH, MRS. B. They built themselves a hospital. Nebr. Farmer 92(19):7,16. Oct.7,1950. 6 N27  
Gothenburg Memorial Hospital, a community hospital in Nebraska.
- 9843 OTTE, E. A. Farmer-education pays dividends. South. Seedsman 13(10):20,49. Oct.1950. 61.8 So8



- 9844 PANEL discussion: what are the difficulties we face in moving ahead in extension work with young adults? (Sum.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:215-216. 1950. 4 As7  
M. E. Wallace, leader.
- 9845 PANNENBERG, A. Ausblicke vom landpädagogischen kongress. Hannoversche Land- u. Forstwirt. Ztg. 103:412. Apr.22,1950. 18 H194
- 9846 PARKS, D. L. La diffusion de l'information agronomique. Agriculture [Montreal] 7:115-119. Summer 1950. 7 Ag82  
Extension work.
- 9847 PATTERSON, P. Colorado's doing something for the kids out of 4-H. Better Farming Methods 22(10):13,40. Oct.1950. 58.8 B46
- 9848 PEETERS, J. Les dictons agricoles. Cour. Hort. 12:453-454. Aug.1950. 80 C834
- 9849 PETITLAURENT, V. Comment se détermine en agriculture l'activité professionnelle suffisante, nécessaire pour l'attribution des prestations familiales? Rev. de Lég. Agr. 3:111-114. July/Aug.1950. 281.8 R325 France.
- 9850 PETRI, C. Die weiterbildung der lehrerin der landw. haushaltungskunde während der berufstätigkeit. Nachr. f. Beratung u. Ausbild. in der Landwirt. 3:91-93. Aug.1950. 18 N11  
Germany.
- 9851 PLASSCHE, A. W. VAN DE. Technical assistance. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:380-381. July 1950. 86 N384  
Study tours to the United States provided through the European Recovery Program.
- 9852 POBLETE TRONCOSO, M. The problems of slavery and servil work studied in the U. N. O. B. Indig. 10:198-203. Sept.1950. 446.9 In8B  
English and Spanish texts.  
Report on situation in Latin America.
- 9853 PORTAL, La vulgarisation agricole à l'étranger. Bouches du Rhône Agr. 23(1033):9. (Concl.) Sept.1, 1950. 14 B662  
Extension work.
- 9854 PRICE, W. T. Agricultural instruction in Great Britain. (In Italian.) Agenzia Romana Note e Inform. Agr. 65:8. Sept.27,1950. 281.8 Ag3
- 9855 RADFORD, W. C. Socialization, the rural child and the large school. (Abs.) Austral. & New Zeal. Assoc. Advn. Sci. Rpt. 27:126. 1949. 514 Au73
- 9856 RAMSOWER, H. C. A basic philosophy for an integrated extension program. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:210-211. 1950. 4 As7
- 9857 ROF CODINA, J. Instantáneas de la I Feria Nacional del Campo. Cult. Mod. 33:248-249. July 1950. 15 C89  
Spain.
- 9858 ROSE, Landwirtschaftsschule und ganzjähriger unterricht. Hannoversche Land- u. Forstwirt. Ztg. 103:501-502. May 20,1950. 18 H194
- 9859 RUIZ FERRON, J. La Iª feria nacional del campo y su repercusión en la vida económica española. Inform. Com. Españ. (ser.3)203:974-975. July 1950. 286.8 In3
- 9860 RUSSELL, K. L. Some factors to consider in establishing and approving departments of vocational agriculture in Missouri. Mich. U. Microfilm Abs. 10(3):82-83. 1950. 241.8 M58  
Also in Agr. Educ. Mag. 23:80-81. Oct.1950. 275.8 Ag8
- 9861 SALEM, O. A. Organizing teaching materials for departments of vocational agriculture in Virginia. Va. Polytech. Inst. Dept. Vocat. Educ. Dept. Mimeo. 78, 27 p. Apr.1950. 276 V813
- 9862 SCHULZE-LAMMERS, H. Mehr diplomgärtner als lehrer an landwirtschaftsschulen? Nachr. f. Beratung u. Ausbild. in der Landwirt. 3:90. Aug.1950. 18 N11  
Germany.
- 9863 SIVERTZ, G. Vocational agriculture launched in Province; history making step starts in British Columbia schools. B. C. Farmer & Gard. 5(14):3. Aug.1950. 7 F86
- 9864 SKILBECK, D. Training for agriculture. (Extr.) Young Farmer 18:228-229,254. Sept./Oct.1950. 10 Y8
- 9865 SMITH, J. W. They took to the woods. Mich. Conserv. 19(6):13-15,29-30. Nov./Dec.1950. 279.9 M582  
Out-of-door education of children.
- 9866 SNIDER, A. J. Contrasts and comparisons of major administrative techniques used in the administration of the institutional on-farm training program for veterans in Missouri. Mich. U. Microfilm Abs. 10(3):89-90. 1950. 241.8 M58
- 9867 SOLIONGCO, I. D. Les huks, des paysans philippins dirigés par des communistes, qui luttent contre la féodalité. Agence France-Presse. Inform. et Doc. 307:11-13. Sept.2,1950. 280.9 Ag3
- 9868 STAKHURSKI, M. Constant improvement of supervision of collective farms. (In Russian.) Bol'shevik 27(15):44-51. Aug.1950. 280.8 B633  
Policy of Central Committee of the Communist Party.
- 9869 STEWART, J. S. H. Rural education [in Northern Ireland]. Farmers' J.(n.s.)1(12):22. Oct.1950. 10 F2234
- 9870 STEWART, W. A. Training young farmers. Times Survey Brit. Agr. 1950:8. July 1950. 10 T48
- 9871 STICKLE, R. L. Michigan Bankers short course scholarship program for Michigan State College. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:152-154. 1950. 4 As7  
Vocational agriculture.
- 9872 STOKER, H. Acquainting all-day students with the value and the need for developing a supervised farming program. Agr. Educ. Mag. 23:86. Oct.1950. 275.8 Ag8
- 9873 STOTHARD, F. S. Oak spale baskets. Gt. Brit. Min. Agr. Agriculture 57:288-290. Sept.1950. 10 G79J  
An ancient craft in rural Westmorland.
- 9874 SUTHERLAND, S. S. Agricultural education. Rev. Educ. Res. 20:330-338. Ref. Oct.1950. 275.8 R32
- 9875 TAYLOR, G. H. Clinic facilities in rural areas. Med. Off. 2204:176-177. Oct.21,1950. 448.8 M462 England.
- 9876 TAYLOR, H. M. Tales and tears; a former county agent remembers experiences that couldn't be changed to statistics for his annual report. Cappers' Farmer 61(11):22,25-26. Nov.1950. 6 M693
- 9877 TISDALE, C. R. Are rural high schools rural? Farmer's Mag. 47(10):11,46-47. Oct.1950. 7 C165  
Rural education in Ontario.
- 9878 UNDERWOOD, B. A strong church needs a strong people. Christian Rur. Fellowship B. 156:1-7. Oct.1950. 281.29 C46
- 9879 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Sharing farm know-how, by members of young farmer Technical Assistance Teams from Marshall Plan countries with D. Reynolds. Washington,1950. 6 p. 1.914 R2R11
- 9880 U. S. EXTENSION SERV. Extension Conference on Children and Youth, December 8-13, 1950; a progress report. Washington,1950. 2 p. 1.913 C3C43
- 9881 U. S. OFF. OF EXPERIMENT STATIONS. List of land-grant colleges in the United States. Washington,1950. 2 p. 1.9 Ex6La
- 9882 VANCE, M. Southwest Louisiana College of Agriculture trains farmers and ranchers of tomorrow. Coastal Cattleman 16(6):13-14. Aug.1950. 43.8 C63
- 9883 VAUGHAN, L. M. Scope and objectives of public policy work as applied to the Northeast. Washington, U. S. Ext. Serv.,1950. 7 p. 1.913 E2V46  
Summary of remarks before Work Conference on Public Policy Problems, Petersham, Mass., Sept. 11, 1950.
- 9884 VERA REBOLLO, F. Badajoz en la I Feria Nacional del Campo. Badajoz. Diputación Prov. B. de Inform. Agr. y Ganad. 8(78):33-34. Mar./July 1950. 15 B14
- 9885 VERMAZEN, J. Wanted: larger high schools for farm youth. Farm Policy Forum 3(9):25-26. Sept. 1950. 281.8 F2274
- 9886 VIFQUAIN, R. M. Short course administrative organization. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:152. 1950. 4 As7  
Courses in vocational agriculture.
- 9887 VILLAMIL, J. M. La inseguridad en los campos. Rev. Agr. y Ganad. 12(126):24-25. July 1950. 9.4 R327  
Crime in Colombia.
- 9888 VIRGINIA POLYTECHNIC INSTITUTE. DEPT. OF AGRICULTURAL EDUCATION. Evaluation of participating experiences of student teachers in vocational agriculture. Va. Polytech. Inst. Dept. Vocat. Educ. Dept. Mimeo. 79,27 p. Sept.1950. 276 V813



9999 VOGELSANG, W. Landjugend-arbeit in England/erlebnisse und beobachtungen. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1162-1163. (Concl.) Aug.24, 1950. 18 L2346

9990 WALL, G. M. Are Rural High Schools "rural"? Farmer's Mag. 47(9):42-44. Sept.1950. 7 C165 In Nova Scotia.

9991 WATERS, E. A., SIMPSON, T. M., and BOYD, G. H. Graduate work offered by land-grant institutions through off-campus study arrangements. (Sum.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:190-192. 1950. 4 As7

9992 WHITE, M. E. The State and National Home Demonstration Agents Association. (Abs.) Assoc. Land-Grant Co. & Univ. Proc. (1949)63:220-221. 1950. 4 As7

9993 WIELEN, H. G. W. VAN DER. What is the educational situation in the Netherlands? (In Dutch.) Drents Landtbl. 31(39):5. Oct.7,1950. 12 D812

9994 WILSON, M. L. An Interpretation. (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:222-223. 1950. 4 As7

Home demonstration work.

9995 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Agricultural extension in Wisconsin, report for 1949. Wis. Agr. Col. Ext. C. 388,31 p. July 1950. 275.29 W75C

9996 YANG, H. P. La escuela "Shantan Bailie." Washington, 1949? 12 p. 276.4 Y1

Issued by Food and Agriculture Organization of the United Nations and Inter-American Institute of Agricultural Sciences.

#### Leadership

9997 BRANNAN, C. F. The elements of leadership. Washington, U. S. D. A., Off. Sec., 1950. 12 p. 1.91 A2B73

Talk at convention of the National Grange, Minneapolis, Nov. 17, 1950.

9998 HUMPHREYS, G. What are the objectives of the program with young adults as seen by a state leader? (Abs.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:211-213. 1950. 4 As7

In extension work.

9999 RADIR, R. To the 4-H leader. Wash. State Col. Ext. B. 431,20 p. Sept.1950. 275.29 W27P

9900 SABROSKY, L. K. Here are some 4-H facts about getting more effective results from local leaders. U. S. D. A. PA 116,7 p. Ref. July 1950. 1 Ag84Pro

9901 VISSER, P. The challenge that the use of radio and television presents to youth leaders. Washington, U. S. Ext. Serv., 1950. 6 p. 1.913 A2C353

Presented at National 4-H Club Camp, Washington, D. C., June 16, 1950.

#### Rural Organizations and Movements

9902 ALLEN, N. L. Basis co-op success. Colo. Potato Grower 28(4):4. Oct.1950. 75.8 C71

9903 ANDERS. Dorfgemeinschaften und vereinigungen volkseigener erfassungs- und aufkaufbetriebe. Versorgung 4:200-202. Aug.1950. 280.8 V61

9904 BACON, C. M. This is how I share in financing my Eastern States cooperative. East. States Coop. 26(10):10-12. Oct.1950. 280.28 Ea7

9905 BEEKOM, C. W. C. VAN. Have the 4-H Clubs in the United States something to tell the Netherlands too? II-V. (In Dutch.) Zeeuwisch Landtbl. 38(2027):5; (2028):3; (2029):4; (2031):3. July 15-29, Aug.12, 1950. 12 Z2

9906 BELDA FILHO, J. Accounting in the cooperative society. III. (In Portuguese.) Divulg. Coop. 8:21. June 1950. 280.28 R47

9907 BLANCHARD, F. A. L'économie rurale et la co-operation. Marit. Co-op. 18(16):2. Oct.1,1950. 280.28 M33

9908 BOMBAY. REGISTRAR OF CO-OPERATIVE SOCIETIES. Annual report on the working of co-operative societies in the Province of Bombay for the year 1947-48. v. I. Bombay, 1950. 199 p. 284.29 In22

9909 BRADLEY, H. F.F.A. cooperative project. Agr. Educ. Mag. 23:88. Oct.1950. 275.8 Ag8

9910 BRIDGES, B. Significance of youth participation in program building. Washington, U. S. Ext. Serv., 1950. 5 p. 1.913 O2Si2

Presented to State Club Leaders at National 4-H Club Camp, Washington, D. C., June, 19, 1950.

9911 BRYSON, H. L. I want my Farm Bureau on the job. Nation's Agr. 25(9):7,19. Oct.1950. 280.82 B89

9912 BUNDESANSTALT FÜR ALPINE LANDWIRTSCHAFT IN ADMONT. Bericht über die tätigkeit im jahre 1948. Bundesanst. f. Alpine Landwirt. Veröffentl. 3:1-97. 1950. 19 Ad6

9913 CAIRNS, A. The International Federation of Agricultural Producers. Foreign Agr. 14:215-220. Oct. 1950. 1.9 Ec7For

9914 CONFEDERACION DE ASOCIACIONES RURALES DE BUENOS AIRES Y LA PAMPA. Memoria y balance, 18º. ejercicio, abril 10. de 1949 a 31 de marzo de 1950. Buenos Aires, 1950. 79 p. 9 C762

9915 DANNEMANN, R. 1900-1950-fünfzig jahre Landwirtschaftskammer. Landwirtbl. Weser-Ems 36:716. Sept.6, 1950. 18 L2345

9916 DELANO, C. F.F.A. cooperative summer projects. Agr. Educ. Mag. 23:87. Oct.1950. 275.8 Ag8

9917 DELATOUCHE. L'Académie d'Agriculture dénonce certaines déviations de la coopération agricole. Dépêche Com. et Agr. 1950:1. (Cont.) Sept.21, 1950. 280.38 D44

France.

9918 DELOM, B. History of cooperative legislation in Argentina. (In Portuguese.) Cooperativismo [Rio de Janeiro] 5(50):2-3. Aug.1950. 280.28 C7856

9919 DENMARK. LANDBRUGSRAADET. 30te beretning om Landbrugsraadets virksomhed 1. januar 1949-31. december 1949 [The 30th report of the activities of the Agricultural Council, January 1, 1949-December 31, 1949]. København, 1950. 224 p. 11 D415B

9920 DICKSON, A. Missouri uses visual aids to teach principle of club program planning. Ext. Serv. Rev. 21:149. Sept.1950. 1 Ex893Ex

9921 ECHOLS, M. P. Youth organizations in rural Japan. Amer. Farm Youth 16(4):49-50. Sept.1950. 6 Am393

9922 ENNING. Auch die landwirtschaftl. genossenschaften stellen aus. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1144. Aug.24, 1950. 18 L2346

9923 FUTURE FARMERS OF AMERICA. The Future Farmers of America organization; what it is, what it does. Baltimore, 1949. 11 p. 4 F98F

U. S. Office of Education Cooperating.

9924 FUTURE FARMERS OF AMERICA. An opportunity to build for the future. Washington, 1949. 8 p. 4 F980

9925 GANDRA, J. F. Capital accounting in cooperatives. (In Portuguese.) Cooperativismo [Rio de Janeiro] 4(49):2,4. July 1950. 280.28 C7856

9926 GARDNER, K. B. Better directors, better cooperatives. News Farmer Coop. 17(7):3,20-22. Oct. 1950. 166.2 N47

9927 GEAR, R. D. A study of the cooperative type of business organization and its setting in our private enterprise economy. Kans. Agr. Expt. Sta. Agr. Econ. Rpt. 45,20 p. July 1950. 281.9 K132

9928 GEERTSEMA, M. Activities of the country youth in England. (In Dutch.) Drents Landtbl. 31(30):8. July 29, 1950. 12 D812

Young Farmers Clubs.

9929 GOMEZ RAMÍREZ, C. A. Creación de recursos para las cooperativas agrícolas. Rev. Agr. y Ganad. 12(126):23. July 1950. 9.4 R327

Colombia.

9930 GUY, J. A. Dalwallinu [Farmers] co-op; opening of new store. Westralian Farmers Co-op Gaz. 19:23-24. July 1950. 280.28 W522

9931 HELD, R. B. Our farm organizations—how they started; their stand today. Farm Policy Forum 3(11):21-25. Nov.1950. 281.8 F2274

9932 HOAG, W. G. American Institute's session developed greater unity. News Farmer Coop. 17(7):9,22. Oct.1950. 166.2 N47

American Institute of Cooperation.

9933 HÜBER, A. Die geschäftsstelle im dienste der verbandsmitglieder. Gärtnermeister 53:269. Aug.18, 1950. 80 G1939

Switzerland.



- 9934 HUTCHINSON, K. T. Teamwork shows the way. *Tex. Coop. News* 30(6):1,3,7. (To be cont.) Sept. 15, 1950. 72.9 T315F
- 9935 JANDOLO, E. Organization of producers and professional instruction in the agriculture of the South. (In Italian.) In *Milan. Istituto per gli Studi di Economia. Il problema agrario del Mezzogiorno*, p. 95-101. Milano, Istituto Editoriale Italiano, 1950. 281.176 M58 Italy.
- 9936 KLINE, A. B. Farm Bureau's responsibility. *Nation's Agr.* 25(9):6. Oct. 1950. 280.82 B89
- 9937 KNAPP, J. G. Answering tall tales about co-ops. *News Farmer Coop.* 17(7):6,18-19. Oct. 1950. 166.2 N47
- 9938 KRIEGSMANN, T. Farmers from America. Germany (U. S. Zone) *Mil. Govt. Inform. B.* 1950:41-42, 44. Sept. 1950. 173.3 M59I
- 4-H Club members working on German farms under the International Farm Youth Exchange Program.
- 9939 KUNG, H. Sinn und aufgabe der genossenschaften in der wirtschaft. *Agrarpolit. Rev.* 6:459-477. July/Aug. 1950. 281.8 Ag824 Switzerland.
- 9940 LAGAUSIE, F. DE. Les coopératives agricoles aux U. S. A. *Sol* 1950:126-137. 14 S04
- 9941 LAMB, G. W. Farmers need cooperatives today. *United Farmers New Eng. News* 10(4):7,10. Oct. 1950. 6 Un35
- 9942 LIND, A. Co-ops help build farm stability in Scandinavia. *G T A Digest* 10(10):17-18. Oct. 1950. 280.28 G11
- 9943 LUZ FILHO, F. The agricultural problem and the cooperative solution. (In Portuguese.) Ceará, Brazil. *Dept. Estad. de Coop. Coop.* 15(86):5-7. Oct. 1949. 280.28 C781
- 9944 LUZ FILHO, F. Cooperation and its postulates. (In Portuguese.) *Seleç. Agr.* 5(52):25-27. Aug. 1950. 9.2 Se4
- 9945 LUZ FILHO, F. Cooperation and malnutrition. (In Portuguese.) *Divulg. Coop.* 9:11. July 1950. 280.28 R47 Brazil.
- 9946 MALMÖHUS LÄNS HUSHÄLLNINGSSÄLLSKAP. Annual report of Malmöhus Agricultural Society for the year 1949. (In Swedish.) *Malmöhus Läns Hushåll. Sällsk. Kvrtlsskr.* 1950:86-112. 11 M29
- 9947 MANGEART, R. L'amitié, la confiance réciproque un but unique: le relèvement de la condition paysanne. *Libération Paysanne* 7(278):5-6. Sept. 7, 1950. 14 L61 Organization in French agriculture.
- 9948 MAYORAL REINAT, A. Como trabajan los Clubes 4-H. P. R. *Agr. Col. Ext. Carta Mens.* 8,i.e.7(5): 8. Aug. 1950. 275.29 P96Ca
- 9949 MENEZES, R. B. DE. The prefects and co-operation. (In Portuguese.) *Coop [Bahia]* 9(77):7. Apr. 15 1950. 280.28 C7842
- Agricultural cooperatives in Brazil.
- 9950 MENEZES, R. B. DE. Three great programs of the Brazilian Rural Society. (In Portuguese.) Ceará, Brazil. *Dept. Estad. de Coop. Coop.* 15(86):7-10. Oct. 1949. 280.28 C781
- 9951 MILLS, B. R. Developing an F.F.A. scrap book. *Agr. Educ. Mag.* 23:85. Oct. 1950. 275.8 Ag8
- 9952 NAJJAR, H. The constitution and bye-laws of an agricultural cooperative; with an explanation of the principles involved. (In Arabic.) Syria. *Ext. Serv. C.52,28 p.* July 1950. 22.5 Sy8
- 9953 NAJJAR, H. Cooperation in agriculture. (In Arabic.) Syria. *Ext. Serv. C.51,24 p.* June 1950. 22.5 Sy8
- English summary.
- 9954 NEDERLANDSCHE HEIDEMAATSCAPPIJ. Verslag over het jaar 1949 [Report for the year 1949]. Nederland. *Heidemaatsch. Meded.* 11,39 p. 1950. 12 N282M
- 9955 NOAKES, H. L. The New York F.F.A. camping program. *Agr. Educ. Mag.* 23:84,90. Oct. 1950. 275.8 Ag8
- 9956 NORRIS, P. T. Wanted—100,000 members—Farm Bureau roll call plans outlined. *Hoosier Farmer* 35(9):8. Sept. 1950. 280.82 H76
- 9957 O'MEARA, J. E. Volume of business of Canadian co-operatives, 1948. *Econ. Annal.* 20:105-106. Oct. 1950. 281.8 Ec72
- 9958 PUNDLIK, D. A. Co-operatives and Grow More Food Campaign in Madhya Pradesh. *Indian Co-op. Rev.* 16:118-120. Apr./June 1950. 280.28 In2
- 9959 QUEBEC. SERV. OF RURAL ECONOMY. DIV. OF COOPERATION. Sociétés coopératives agricoles de la province de Québec au 31 mars 1950. Québec, 1950. 51 p. 280.29 Q3
- 9960 RAJA, P. S. K. Co-operative progress and possibilities in Madras. *Madras J. Co-op.* 42:71-78. Aug. 1950. 280.28 M26
- 9961 RANNEY, W. A. Can co-ops be too large? *Co-op-co News* 15(3):3. Oct. 1950. 280.28 C7838
- 9962 REPETTO, N. Agricultural-regulatory cooperatives. (In Portuguese.) *Cooperativismo [Rio de Janeiro]* 4(49):13-16. July 1950. 280.28 C7856
- 9963 RESERVE BANK OF INDIA. AGRICULTURAL CREDIT DEPT. Review of the co-operative movement in India 1946-48. Bombay, 1950. 136 p. 284.29 R31R
- 9964 RIDDELL, G. E. West European co-ops important to us. *News Farmer Coop.* 17(7):7-8,22. Oct. 1950. 166.2 N47
- 9965 ROSE, J. E. Sound business necessary in co-ops as on farms. *Grain Prod. News* 3(3):18. Aug. 1950. 286.81 G764
- 9966 ST. FRANCIS XAVIER UNIVERSITY, ANTIGONISH, NOVA SCOTIA. EXTENSION DEPT. *El cooperativismo en Antigonish.* Washington, 1949? 21 p. 280.2 Sa2C
- Issued by Food and Agriculture Organization of the United Nations and Inter-American Institute of Agricultural Sciences.
- 9967 SÃO PAULO. DEPT. DE ASSISTÊNCIA AO COOPERATIVISMO. A cooperativa, a lei e os estatutos [The cooperative, the law and the statutes]. São Paulo. *Dept. de Assistência ao Cooperativismo.* P. 176,16 p. July 1950. 280.29 Sa6
- 9968 SÃO PAULO. DEPT. DE ASSISTÊNCIA AO COOPERATIVISMO. Práticas de contabilidade cooperativa [Cooperative accounting practices]. São Paulo. *Dept. de Assistência ao Cooperativismo.* P. 172,46 p. Mar. 1950. 280.29 Sa6
- 9969 SCHIELLEIN, F. Le syndicalisme Agricole en Alsace depuis 1945. *Bas-Rhin Agr.* 5:454. Sept. 23, 1950. 14 B29
- 9970 SCHUMY, V. Die bedeutung der genossenschaftlichen gemeinschaftsarbeit im neuen Europa. *Bas-Rhin Agr.* 5:455. (To be cont.) Sept. 23, 1950. 14 B29
- 9971 SCHWEIZER, W. Bäuerliche, gewerbliche und konsumgenossenschaften. Bern, Verbandsdruckerei, 1949. 12 p. 280.2 Sch9
- 9972 SIEH, J. M. The heart of the [National] Farmers Union. *Natl. Farmers Union. Fall Program Serv.* 1950:1-2. Oct./Dec. 1950. 280.29 F2232
- 9973 SINGH, B. Role of co-operation in food supply. *Indian Co-op. Rev.* 16:111-117. Apr./June 1950. 280.28 In2
- 9974 SINHA, A. B. N. Role of Bihar co-operatives in Grow More Food Campaign. *Indian Co-op. Rev.* 16: 121-124. Apr./June 1950. 280.28 In2
- 9975 SMITH, J. "Co-operation is commonsense". Perth, Westralian Farmers Co-operative limited, 1949? 30 p. 280.2 Sm6
- 9976 SPERO, J. S. Wisconsin 4-H Clubs train citizens for democracy. (Sum.) *Ext. Serv. Rev.* 21:165, 178. Oct. 1950. 1 Ex892Ex
- 9977 SUBRAHMANYAM, K. The role of co-operatives in agricultural production in Madras. *Indian Co-op. Rev.* 16:125-138. Apr./June 1950. 280.28 In2
- 9978 SVERIGES LANTBRUKSFÖRBUND. Swedish farmers' organizations. Stockholm, 1950. 55 p. 280.2 Sv2S
- Cooperatives.
- 9979 THURSTON, S. K., JR. The operating experience of 24 local cooperative exchanges in Missouri, 1929-1947. *Mo. Agr. Expt. Sta. Res. B.* 453,40 p. Feb. 1950. 100 M693
- 9980 TRØNDELAG MYRSELSKAP. Annual report of Trøndelag Marshland Association for 1949. (In Norwegian.) *Norske Myrseiskap Meddel.* 48:96-;00. Aug. 1950. 11 N813
- 9981 TURNER, L. L. F.F.A. farm day—for "city kids." *Agr. Educ. Mag.* 23:86,95. Oct. 1950. 275.8 Ag8



9982 UCC [Union Catholique des Cultivateurs]. *Terre de Chez Nous* 22(34), 40 p. Oct. 18, 1950. 7 T27  
Consists of numerous signed articles celebrating the 26th annual congress of the association.

9983 UNION TERRITORIAL DE COOPERATIVAS DEL CAMPO SEVILLA. Memoria, 1948. Sevilla, 1949. 15 p. 280.29 Un38

9984 U. S. EXTENSION SERV. Aids for 4-H achievement observance, by G. L. Warren. Washington, 1950. 30 p. 1.913 F3Ac4

9985 U. S. RURAL ELECTRIFICATION ADMIN. Rules of order; a simplified parliamentary procedure recommended for use in business meetings of REA co-ops. U. S. D. A. PA-118, 16 p. 1950. 1 Ag84Pro

9986 URANN, M. L. Cooperatives and cooperation. *Northeast* 1950:2-3. Fall 1950. 284.28 N81

9987 VENNES, L. A., and BINKLEY, W. C. Farmer cooperatives; some questions and answers on their formation, functions, organization, and operation. *Ky. Agr. Col. Ext. C. 484*, 38 p. June 1950. 275.29 K415

#### RURAL SOCIAL PSYCHOLOGY

9988 ELIAS, L. J. Farm youths' appraisal of their adjustments, compared with other youth. *Wash. Agr. Expt. Sta. B. 513*, 45 p. Dec. 1949. 100 W27E

9989 GRIMSLEY, C. J. Making a go of marriage. *N. C. Agr. Col. Ext. Club. Ser. 69*, 14 p. May 1950. 275.29 N81C

9990 HARLOW, R. F. Study in urban-rural relations. *Pub. Relat. J. 6*(9):6. Oct. 1950. 238.28 P96

9991 LAPLANTE, G. M. La terre de chez nous. *Foyer Rur. [Montreal]* 10:8-9, 21, 13. Oct. 1950. 7 F83 Rural Quebec.

9992 MCLEOD, D. The land of our fathers. *Lincoln Col. Rur. Educ. B. 5:88-92*. July 1950. 109 C162

9993 MOORE, L. The art of growing older. *Okl. Agr. Col. Ext. C. 528*, 8 p. 1950? 275.29 Ok41C

9994 TATE, M. T. The place of the home economist in family life research. (Excerpts.) *Assoc. Land-Grant Col. & Univ. Proc. (1949)63:235-237*. 1950. 4 As7

9995 U. S. EXTENSION SERV. Using discussion "66" or "Buzz" discussion methods. Washington, 1950. 4 p. 1.913 A2Us4

9996 WEST, Q. M. Student opinions on their future incomes. *N. Y. Agr. Col. Farm Econ. 175:4526-4528*. July 1950. 280.8 C812

9997 WICKARD, C. R. Farmers and their government. Washington, U. S. Rur. Electrification Admin., 1950. 6 p. 1.91 A2W63

Talk at Fellowship Banquet at meeting of the North Carolina State Grange, Lumberton, Oct. 23, 1950.

9998 WILSON, P. P. Conservation of human resources: family life. (Abs.) *Assoc. Land-Grant Col. & Univ. Proc. (1949)63:233-234*. 1950. 4 As7

#### TRADE, FOREIGN AND INTERNATIONAL

9999 ALBERTARIO, P. Italian agriculture under the new customs tariff. (In Italian.) *Moneta e Credito* 3:14-27. First Q. 1950. 284.8 M744

10000 ARGENTINA. DIRECCION DE ECONOMIA. El Acuerdo Triguero Internacional. Argentina. Dir. Nac. de Granos y Elevadores. B. Inform. 11:110-117. June 30, 1950. 286.81 Ar3

10001 BELGIUM. INSTITUT NATIONAL DE STATISTIQUE. Le commerce extérieur de l'Union Economique Belgo-Luxembourgeoise; statistiques annuelles par pays de provenance et de destination, 1949 (en comparaison avec les années 1938, 1946, 1947 et 1948). 2-3. *Bruxelles, 1950?* 100, 67 p. 258 B415C

10002 BERGSTROM, C. A. Eggs to Puerto Rico. *Amer. Egg & Poultry Rev. 11*(9):86, 88. Sept. 1950. 47.8 Am38

10003 BERGSTROM, C. A. Eggs to Venezuela; unique marketing practices. *Amer. Egg & Poultry Rev. 11*(10):60-61, 73. Oct. 1950. 47.8 Am38

10004 BERISTAIN, B. Las exportaciones de vinos comunes españoles. *Semana Vitivinif. 5*(218):11. Sept. 2, 1950. 95.8 Se5

10005 BETRIUS, A. Importancia en la economía nacional del Grupo de Exportadores de Aceite de Oliva de la Provincia de Barcelona. *Inform. Com. Españ. (ser.3)203:1000-1001*. July 1950. 286.8 In3

10006 BOALS, G. P. International Wheat Agreement—its first year. *Foreign Agr. 14:222-228*. Oct. 1950. 1.9 Ec7For

10007 BRAMMALL, A. Australia expands her orchid exports. *Orchid Rev. 58:114-115*. Aug. 1950. 80 Or15

10008 BRAZIL. SERV. DE ESTATISTICA ECONOMICA E FINANCEIRA. Comércio de cabotagem do Brasil 1945-1946 [Seagoing trade of Brazil, 1945-46]. Rio de Janeiro, 1950. 139 p. 255.3 Es84C

10009 BRODIE, F. A. Proposed exportation of meat from Australia to the United States. *Calif. Wool Grower 26*(45):8. Nov. 7, 1950. 45.8 C12

10010 BURSLEY, W. H. Because imports speed improvement. *Farmers Wk. [London]* 33(13):53. Sept. 29, 1950. 10 F2226

Importing Dutch breeding cattle into Great Britain.  
10011 CALZECCHI-ONESTI, A. Alarm among farmers for imports of agricultural products decided by the Government. (In Italian.) *Glor. di Agr. 60:267*. Aug. 27, 1950. 16 It1G Italy.

10012 CLAY, SIR H. The international background. *Agr. Econ. Soc. J. Proc. 8:163-175*. Apr. 1949. 281.9 Ag8

Includes discussion.  
Trade.

10013 COLOMBIA. CONTRALORIA GENERAL. Anuario de comercio exterior, Colombia, 1948. Bogotá, 1950. 824 p. 255.5 C712

10014 CYPRUS. Statistics of imports, exports and shipping; also currency, banking, weights and measures with a report by the Comptroller of Customs and excise for the year ended 31st December 1949. Nicosia, 1950. 187 p. 256. 256.02 C993S

10015 DALL, W. B. Cotton textile imports into America increasing at "geometric rates." *Indian Textile J. 60:793-797*. July 1950. 304.8 In2

10016 DAY, G. H. Outlook for imports of United States Dairy products in Venezuela. U. S. Off. Foreign Agr. Relat. *Foreign Agr. Rpt. 53*, 42 p. July 1950. 1.943 F763

10017 DODD, N. E. World peace grows on good farms. *Assoc. Land-Grant Col. & Univ. Proc. (1949)63:50-57*. 1950. 4 As7  
On the proposed FAO International Commodity Clearing House.

10018 FAROL, M. Hessian expts. to Philippines. *Jute & Gunny Rev. Annu. 1:43-44*. 1950. 73.38 J983A

10019 GT. BRIT. BOARD OF TRADE. Statistical abstract for the British Commonwealth for the years 1933 to 1939 and 1945 to 1947, seventieth number. London, 1950. 282 p. (Cmd. 8051) 256.03 T67C  
Foreign trade.

10020 GT. BRIT. CUSTOMS AND EXCISE DEPT. STATISTICAL OFF. Annual statement of the trade of the United Kingdom with British countries and foreign countries 1948 compared with the years 1946-1947; v. II. London, 1950. 816 p. 256.03 C96S

10021 HAKANSSON, H. Swedish farm furs—valuable export contribution. (In Swedish.) *Våra Pälssjur* 9:194-196. Aug. 15, 1950. 410 V42

10022 HARTARD EBERT, M. Nuestras exportaciones de vinos. *Campesino [Santiago]* 82(7):21. July 1950. 9.3 So12

Chile.

10023 HERVENS, R. Les exportations de tissus de laine depuis la libération. *Monit. Textile* 12:1153, 1155, 1157, 1159. Sept. 1950. 304.8 M74  
Belgium.

10024 HESS, O. Importpolitik und landwirtschaft. *Grüne* 78:953-954. Sept. 1, 1950. 17 Sch9  
In Switzerland.

10025 INDIA. DEPT. OF COMMERCIAL INTELLIGENCE AND STATISTICS. Raw cotton trade statistics for the twelve months ending August, 1949. Calcutta, 1950. 74 p. 269.5 C732  
Foreign trade.

10026 INTERNATIONAL APPLE ASSOCIATION. 1950 reference book, containing membership roster, export statistics, index and directory of advertisers. Washington, D.C. 1950. 232 p. 225 In83

10027 JOHNSON, H. G. The de-stabilising effect of international commodity agreements on the prices of primary products. *Econ. J. 60:626-629*. Sept. 1950. 280.8 Ec72



- 10028 KEUNE. Vor umwälzungen auf dem weltbuttermarkt? *Molk.-Ztg.* [Hildesheim] 4:1092. Sept.14,1950. 44.8 M735
- 10029 KLAMER, P. H. W. Quality problems in connection with the export of vegetables and fruit. (In Dutch.) *Netherlands. Landbouwlichtingsdienst. Maandbl.* 7:261-265. July 1950. 12 N383M
- 10030 LANGLET, E. Danish horses. (In Swedish.) *Hästen* 8(9):9,20-21. Sept.1950. 42.8 H27  
Export of Danish horses.
- 10031 LA ROSA, C. New and definite directions of Italian tariff policy. (In Italian.) *Agr. Ital.* 1:362-368. Aug.1,1950. 16 Ag822
- 10032 LARUE, P. Pays viticoles fournisseurs de la Grande-Bretagne. *Prog. Agr. et Vitic.* 1950:258. Oct.15, 1950. 14 P94  
Wine trade.
- 10033 LEFORT. L'importation des agrumes et des tomates d'A.F.N. via Hambourg. *Colon Franç. de Tunisie* 60(2163):1-2. Sept.16,1950. 24 C712
- 10034 LITTLE, C. C. Preparatory work for a United Nations conference on control of trade in sugar. *U. S. Dept. State. B.* 23:628-630. Oct.16,1950. 150 B87
- 10035 MCMAHON, M. L. Handling fresh papayas for export. *Hawaii. U. Agr. Ext. C.* 289,8 p. Aug.1950. 275.29 H312Ac
- 10036 MALTA. COLLECTOR OF CUSTOMS AND SUPERINTENDENT OF PORTS. Trade statistics, customs, 1949, seventy-fourth year. Malta,1950. 118 p. 256.02 M29C
- 10037 MIRA IZQUERDO, L. España, miembro del Convenio Internacional del Trigo. *Tolva* 8:493-497. July 1950. 59.8 T58T
- 10038 MIRA IZQUERDO, L. Primeras influencias de la guerra coreana en el mercado internacional de cereales. *Tolva* 8:599-602. Aug.1950. 59.8 T58T
- 10039 MOZAMBIQUE. REPARTIÇÃO TECNICA DE ESTATÍSTICA. Comércio externo, ano de 1949 [Foreign trade for the year 1949]. Lourenço Marques,1950. 254 p. 270 M872
- 10040 MURTI, V. N. Post-war trends in India's foreign trade. *Reserve Bank India. B.* 4:441-455. July 1950. 284.9 R31B  
Includes statistics for trade in agricultural products.
- 10041 NETHERLANDS. CONTROLE BUR. VOOR TUINBOUWPRODUCTEN. Export regulations. (In Dutch.) *Fruiteet* 40:548-549. July 20,1950. 86 N28  
Apples and pears.
- 10042 NICKERSON, J. Australia trying to convince the U. S. that rabbit is year-round delicacy. *Small Stock Mag.* 34(10):6. Oct.1950. 48.8 P442
- 10043 O'REILLEY, L. J. Import restrictions, other legislation. *Amer. Natl. Fur & Mkt. J.* 29(3):13,22. (Cont.) Oct.1950. 412.629 Am3M
- 10044 PARANPE, V. M. Post-war Indo-Ceylon trade (with special reference to 1949). *Reserve Bank India. B.* 4:536-544. Aug.1950. 284.9 R31B
- 10045 PELSHENKE, P. F., and SCHÄFER, W. Über die qualität des im juli 1950 importierten auslandsgetreides. *Müllerei* 3:511-512. Aug.19,1950. 298.8 M91  
Germany.
- 10046 REBOUR, H. Le commerce des fruits entre la France et l'Afrique du Nord. *Rev. Hort.* 122:215-217. Sept./Oct.1950. 80 R32
- 10047 RHODES, F. M. United States cotton export controls. *Cotton* [Washington] 4(2):13-14. Sept.1950. 286.3729 In8C
- 10048 ROIG BALLESTEROS, J. El comercio exterior de nuestros vinos tropieza con dificultades económicas. *Siembra* [Madrid] 6(7):3-4. July 1950. 15 S11  
Spain.
- 10049 ROSSITER, F. J. American agricultural commodities in world trade. *Soybean Digest* 10(11):20-22. Sept.1950. 60.38 S09
- 10050 ROUY, H. Pourquoi l'exportation de viande est-elle au point mort? *Voix de l'Elevage* (ser.3)6(55):1. 3. June 15,1950. 44.8 Ac8  
France.
- 10051 RYF, E. Die propaganda für schweizer obst und obstprodukte im ausland. *Grüne* 78:920-931. Aug.25, 1950. 17 Sch9
- 10052 SIERRA LEONE. Trade report for the year 1949. *Freetown*,1950. 129 p. 270 S112
- 10053 SILVA ESPEJO, R., and VIDEA, O. La importación de mantequilla es innecesaria y dañaría gravemente a la producción nacional. *Campesino* [Santiago] 82(8):37,39,41-42. Aug.1950. 9.3 S012  
Chile.
- 10054 SLUIS, N. Flower seeds. *N. Y. Agr. Col. Farm Econ.* 175:4529. July 1950. 280.8 C812  
Trade.
- 10055 SONNEMANN, T. Liberalisierung und landwirtschaft. *Hannoversche Land-u. Forstwirt. Ztg.* 103:513-514. May 27,1950. 18 H194  
Trade.
- 10056 SOVANI, N. V. Economic relations of India with South-East Asia and the Far East. *New Delhi, Indian Council World Aff.*,1949. 137 p. 286 S086  
Includes trade statistics.
- 10057 SPAENDONCK, B. J. M. VAN. Liberalization of the trade in wool and wool products in Western Europe. (In Dutch.) *Econ.-Statist. Ber.* 35:775-777. Sept.27,1950. 280.8 Ec722  
English summary.
- 10058 SPAIN. DIRECCIÓN GENERAL DE ADUANAS. SECCIÓN DE ESTADÍSTICA. Estadística de fletes y seguros, 1948. Madrid,1949? 113 p. 263 Ad9Ef
- 10059 SURINAM. ALGEMEEN BUR. VOOR DE STATISTIEK. Handelsstatistiek [Trade statistics], 1949. *Surinam*,1950. unpag. 255.6 D952
- 10060 SWEDEN. KOMMERSKOLLEGIUM. Sveriges varuutörsel till olika länder år 1949; preliminar redogörelse [Sweden's export to various countries year 1949; preliminary report]. Sweden. *Komkol. Kom. Meddel.* Bilaga 7,167 p. 1950. 257.3 K832Pv  
Includes farm and forest products.
- 10061 TESTA, J. The Brazil-Italy commercial agreement. (In Portuguese.) São Paulo. *Supt. dos Serv. do Café. B.* 25:416-420. June 1950. 68.29 Sa63
- 10062 TESTA, J. The commercial agreement with Argentina and coffee exports to that country. (In Portuguese.) São Paulo. *Supt. dos Serv. do Café. B.* 25:336-338. May 1950. 68.29 Sa63
- 10063 THOMSON, R. K. Singapore baking trade interested in Canadian hard wheat flour. *Foreign Trade* 8:709-710. Oct.28,1950. 286.8 C162
- 10064 U. S. COMMODITY CREDIT CORPORATION. Deliveries to export programs, as invoiced, 1941 through 1949 by commodity, destination and 6-month periods. Washington? 1950. 121 p. 1.957 D37
- 10065 U. S. ECONOMIC COOPERATION ADMIN. OFF. OF SMALL BUSINESS. Swedish importers of commodities from the United States and other parts of the world. Washington,1950. 44 p. 173.2 Ec72Swe  
Includes raw materials.
- 10066 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Foreign agricultural outlook charts, 1951. Washington,1950. 83 p. 1.943 F7623  
Trade outlook.
- 10067 VALENTINI, M. Operation of the "green pool" difficult. (In Italian.) *Terra* [Firenze] 61(36):1-2. Sept.3,1950. 16 T274
- 10068 VERBELEN, L. Aperçu des exportations de produits textiles belges au cours du premier semestre 1950. *Monit. Textile* 12:1299,1301,1303. Sept.1950. 304.8 M74
- 10069 WALLACE, W. D. Canada now leading supply source of wheat and grain for the Philippines. *Foreign Trade* 8:582. Oct.7,1950. 286.8 C162
- 10070 YORKE, L. C. The British market for Australian eggs. *Poultry Farmer* [Sydney] 18(11):30-33. Sept.9,1950. 280.28 Or32

## FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 10071 AUHAGEN, E., and GRAB, W. Milch in der rachitis-prophylaxe. *Milchwissenschaft* 5:299-304. Ref. Sept.1950. 44.8 M5933  
English summary.



- 10072 AYKROYD, W. R. FAO attacks nutrition problems. *Nutr. News* 14:1. Oct. 1950. 389.8 N957
- 10073 BILLIG, H. Reform der volksernährung. *Nat. u. Nahr.* 4(13/14):27. July 1950. 80 N218
- 10074 BRESLER, R. A child's diet and the farmer. *Farmer & Home Companion* 39(31):21,24. (Cont.) Aug. 4, 1950. 24 F227
- A high-level diet in South Africa and its effect on agricultural production.
- 10075 CALAVO GROWERS OF CALIFORNIA. The Calavo book of popular avocado recipes. Los Angeles, 1949. 14 p. 389.25 C127
- 10076 CAMERON, J. L. The road ahead in nutrition teaching. *J. Home Econ.* 42:641-643. Oct. 1950. 321.8 J82
- 10077 CARTER, K. I. Gifts to eat. Hawaii. U. Agr. Ext. Home Econ. C. 236, 4 p. May 1950. 275.29 H312H
- Chiefly recipes.
- 10078 CLAYTON, C. B. Nutrition high lights. *Pract. Home Econ.* 28:470. Oct. 1950. 321.8 H752
- 10079 COWGILL, G. R. Nutrition today and tomorrow. *New Repub.* 123(16):13-16. Oct. 16, 1950. 280.8 N42
- 10080 COWGILL, G. R., and KREHL, W. A. Significance of the Newfoundland surveys in human nutrition. *Sci. Mon.* 71:229-236. Ref. Oct. 1950. 470 Sci23
- 10081 CRAMPTON, E. W. Canadian nutritional problems, with reference to the Canadian dietary standards. *Canad. J. Pub. Health* 41:359-365. Sept. 1950. 449.8 P964
- 10082 CZAJKOWSKI, J. M., and SMITH, M. B. Choosing and using squash wisely. *Conn. Agr. Col. Ext. L.* 5, 4 p. Sept. 1950. 275.29 C76B
- 10083 DAUBERT, B. F. The place of fats in the diet. *Conf. Res. Proc.* 1949:30-36. Ref. 50.9 C762
- Comment by F. J. Stare, p. 37-40.
- 10084 DESSAU, K. The future of the international vegetarian movement. *Veg. Messenger & Health Rev.* (ser. 8) 47:261-265. Sept. 1950. 389.8 V522
- 10085 DUNN, M., and VOLLMER, E. Some facts about baking. *N. Y. Agr. Col. Ext. Cornell 4-H Club B.* 91, 8 p. Sept. 1950. 275.29 N48Cn
- 10086 EICHELBERGER, M. Procedures for effective nutrition education studied. *J. Home Econ.* 42:735-736. Nov. 1950. 321.8 J82
- 10087 FULLER, J., and FULLER, P. Adventures in diet. *Amer. Mercury* 71:574-582. Nov. 1950. 110 Am35
- 10088 GALLUP, G. Getting more people to follow better nutrition. Washington, U. S. Ext. Serv., 1950. 7 p. 1.913 A2G13
- Presented at Western Regional Nutrition Conference, Flagstaff, Ariz., July 1950.
- 10089 GEE, H. The phosphatase enzymes: versatile catalysts in nutrition. *Borden's Rev. Nutr. Res.* 11:63-78. Ref. Sept. 1950. 389.8 B64
- 10090 GERBER, I. On food containing starches. (In Dutch.) *Nederlandse Ver. tot Bevord. der Biol.-Dyn. Landbmethode. Vruchtbare Aarde* 8:42-46. June 1950. 80 N28
- 10091 HUNTER, M. B., BRIANT, A. M., and PERSONIUS, C. J. Cake quality and batter structure. *N. Y. (Cornell) Agr. Expt. Sta. B.* 860, 59 p. Ref. Aug. 1950. 100 N48C
- 10092 JONES, B. S. The work of the dietitian. *Nutr. Dietet. Catering* 4:100-105. Autumn 1950. 389.8 N959
- 10093 KEYS, A., and others. The biology of human starvation. Minneapolis, U. Minn. Press, 1950. 2 v. 386.2 K52
- J. Brožek, A. Henschel, O. Mickelsen, H. L. Taylor, E. Simonson, A. S. Skinner, and S. M. Wells, joint authors.
- 10094 LAMB, M. W. Feeding the child at home. *J. Home Econ.* 42:719-721. Nov. 1950. 321.8 J82
- 10095 LEVERTON, R. M., and CLARK, G. Meat in the diet of infants. *Conf. Res. Proc.* 1949:27-29. 50.9 C762
- 10096 MCMAHON, G. Dietary consultation—a service for small institutions. II. Menu planning. *Amer. Dietet. Assoc. J.* 26:761-768. Ref. Oct. 1950. 389.8 Am34
- 10097 MACRAE, T. F. Nutrition in relation to catering. *Nutr. Dietet. Catering* 4:98-99. Autumn 1950. 389.8 N959
- 10098 MALTBY, L. M. Suggested place and extent of nutrition education in the public schools in grades I through XII. (Abs.) *J. Home Econ.* 42:730. Nov. 1950. 321.8 J82
- 10099 MITCHELL, H. H. The need for control of physical environment in nutrition investigations. (Abs.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949) 63:176. 1950. 4 As7
- 10100 MOORJANI, M. N., and SUBRAHMANYAN, V. Supplementing value of calcium-fortified vegetable milks to a poor South Indian rice diet. *Indian J. Med. Res.* 38: 139-144. Apr. 1950. 448.8 In22
- With a statistical analysis of the results, by M. C. Satyanarayana.
- 10101 MÜLLER, E. Milchkonzentrate und pulvermilchpräparate in der säuglingsernährung und ihre vitaminisierung mit vitamin D. *Milchwissenschaft* 5:304-307. (To be cont.) Sept. 1950. 44.8 M5933
- 10102 NICHOLLS, E. A. Dietetics in the field. *Nutr. Dietet. Catering* 4:79-83. Autumn 1950. 389.8 N959
- 10103 NICOLL, D. Social betterment through nutrition. *J. Home Econ.* 42:647-648. Oct. 1950. 321.8 J82
- 10104 NOLFI, K. Food and its importance in health and disease. *Veg. Messenger & Health Rev.* (ser. 8) 47: 232-240. Sept. 1950. 389.8 V522
- 10105 NUTRITION FOUNDATION. Report of the scientific director, June 30, 1950. New York, 1950. 65 p. 389.9 N95
- 10106 PITTSBURGH UNIVERSITY. MELLON INSTITUTE OF INDUSTRIAL RESEARCH. HEINZ NUTRITION-AL RESEARCH DIV. Nutritional data, by H. A. Wooster, Jr. and F. C. Blanck. Pittsburgh, 1950. 114 p. 389.1 P68
- 10107 PIZA, S. DE T. Chromosome or chromosome? (In Portuguese.) *Solo* 41:5-13. Oct. 1949. 9.2 So4
- Terminology.
- 10108 PYKE, M. Food and health. *J. Sci. Food & Agr.* 1:195-198. Ref. July 1950. 382 So12
- 10109 PYKE, M. Industrial nutrition. London, MacDonald & Evans, 1950. 205 p. 386.3 P99
- 10110 SCOTLAND. DEPT. OF HEALTH. Health and agriculture in the United Kingdom. n.p., 1949. 2 p. 389.1 Sco8H
- Nutrition.
- 10111 SHABEN, L., and HURD, L. M. How to prepare and cook poultry. *N. Y. Agr. Col. Cornell Ext. B.* 785, 31 p. Oct. 1950. 275.29 N48E
- 10112 SHARP, P. F. Human resources: nutrition and health. (Abs.) *Assoc. Land-Grant Col. & Univ. Proc.* (1949) 63:231-232. 1950. 4 As7
- 10113 SIMMEN, J. S. *Praktische diätetik*. Ed. 2, rev. and enl. St. Gallen, 1950. 65 p. 389.1 Si42
- 10114 SIQUEIRA, R. DE, and SILVA, W. A survey on food conditions in Brazilian schools (intern and semi-internship regimes). (In Portuguese.) *U. do Brasil. Inst. de Nutr. Trab. e Pesquisas* 3:173-186. 1950. 389.9 R47
- English summary.
- 10115 STRAUSS, F. *Spezialnährmittel; produkte und rezepte, in zusammenarbeit mit zahlreichen firmen der schweizerischen nährmittelindustrie*. Olten, Walter, 1950? 165 p. 389 St83
- 10116 THOMAS, R. U., and others. Nutritional status of children. XII. *Amer. Dietet. Assoc. J.* 26:788-798. Ref. Oct. 1950. 389.8 Am34
- M. M. Rutledge, E. Z. Moyer, O. N. Miller, A. R. Robinson, M. N. Coryell, H. Metz, E. F. Beach, and I. G. Macy, joint authors.
- 10117 TODHUNTER, E. N. Everyday nutrition for school children. Rev. printing. University, Ala., Ext. Div. U. Ala., 1949. 57 p. 389.1 T56Ev
- 10118 TRIMBLE, A. P. Foods of Italy and Mexico. Hawaii. U. Agr. Ext. Home Econ. C. 243, 4 p. Aug. 1950. 275.29 H312H
- 10119 TRIMBLE, A. P. Oriental foods. Hawaii. U. Agr. Ext. Home Econ. C. 235, 8 p. Aug. 1950. 275.29 H312H
- Recipes.
- 10120 TRIMBLE, A. P. Scandinavian food. Hawaii. U. Agr. Ext. Home Econ. C. 244, 4 p. Aug. 1950. 275.29 H312H
- 10121 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Recipes for baked products for those who cannot use (A) wheat, milk, or eggs (B) wheat or eggs (C) wheat or milk (D) wheat. Washington, 1950. 8 p. 1.982 F2R24



10122 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Recipes for quantity service. U. S. D. A. PA-135,27 p. Sept.1950. 1 Ag84Pro

10123 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. School lunch recipes: cooking with dried whole eggs. U. S. D. A. PA-136,21 p. Oct.1950. 1 Ag84Pro  
Supersedes PA-58

10124 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. School lunch recipes using turkey. U. S. D. A. PA-108,27 p. Sept.1950. 1 Ag84Pro

10125 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Sweetpotato recipes. U. S. D. A. L. 293,12 p. 1950. 1 Ag84L  
Formerly AIS-58.

10126 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Nutrition quiz, by Z. F. Rodenwold and M. Speece. Washington,1950. 5 p. 1.914 R2R11

10127 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. The school lunch program in 1950, by L. Trainer and K. M. Gapen. Washington,1950. 4 p. 1.914 R2R11

10128 U. S. EXTENSION SERV. How to choose and use cabbage. U. S. D. A. PA-121,4 p.-folder. July 1950. 1 Ag84Pro

10129 U. S. EXTENSION SERV. How to choose and use carrots. U. S. D. A. PA-122,4 p.-folder. July 1950. 1 Ag84Pro

10130 U. S. EXTENSION SERV. How to choose and use snap beans. U. S. D. A. PA-123,4 p.-folder. July 1950. 1 Ag84Pro

10131 U. S. EXTENSION SERV. How to choose and use tomatoes. U. S. D. A. PA-124,4 p.-folder. July 1950. 1 Ag84Pro

10132 U. S. PRODUCTION AND MARKETING ADMIN. Facts about egg production. Chicago,1950? 4 p. 1.956 A2F1129

Chiefly recipes.  
10133 U. S. PRODUCTION AND MARKETING ADMIN. It's sweet potato time! New York,1950. 2 p. 1.956 A2It6

Includes recipes.  
10134 U. S. PRODUCTION AND MARKETING ADMIN. There's no ceiling on appetite appeal so long as onions are plentiful and low-priced. New York,1950. 2 p. 1.956 A2T342

Includes recipes.  
10135 VEEN, A. G. VAN. Nutritional deficiencies in Indonesia before the war. Doc. Neerland. et Indonesica de Morbis Trop. 2:121-127. June 1950. 448.8 D65

10136 VERNON, S. Nutritional deficiency. Clin. Med. 57:187-190. Oct.1950. 448.8 Am36

10137 WILCOX, E. B., and GREENWOOD, D. A. Relation of nutrition to rheumatic fever investigated. Farm & Home Sci. [Utah Sta.] 11:57,56. Sept.1950. 100 U1f

10138 WILLIAMS, G. D. Nutrition education for expectant mothers. Nutr. News 14:3. Oct.1950. 389.8 N957

10139 WILSON, S. V., and DUBOIS, R. Eat to control your weight. N. C. Agr. Col. Ext. Misc. Pam. 128,6 p. May 1950. 275.29 N811M

10140 WILSON, S. V., and DUBOIS, R. Salad dressings. N. C. Agr. Col. Ext. Misc. Pam. 126,4 p. Mar. 1950. 275.29 N811M

10141 WILSON, S. V., and DUBOIS, R. Salads, a spring and summer tonic. N. C. Agr. Col. Ext. Misc. Pam. 125,4 p. Mar.1950. 275.29 N811M

Chiefly recipes.  
10142 YOUNG, C. M., and others. Nutritional status survey, Groton Township, New York. I-II. Amer. Dietet. Assoc. J. 26:771-781. Ref. Oct.1950. 389.8 Am34

H. H. Williams, N. S. Moore, O. Wilhelmy, Jr., and L. A. Maynard, joint authors.  
II, by C. M. Young and H. L. Pilcher.

#### FOOD HABITS

10143 BELL, E. J. A future market? U. S. mission charts food preferences in Far East. Nowest. Miller 244: 26,30,54. Oct.3,1950. 298.8 N81

10144 EMHARDT, R. B. What one school did to stop that poor lunch habit. Pract. Home Econ. 28:471,484-485. Oct.1950. 321.8 H752

10145 FLETCHER, M. V., and SCHUCK, C. Dietary practices and nutritional status of two groups of Virginia school children. J. Home Econ. 42:732-734. Nov.1950. 321.8 J82

10146 MOSER, A. M. Some dietary attitudes and ideas among rural school children in South Carolina. S. C. Agr. Expt. Sta. B. 384,28 p. June 1950. 100 So8

10147 MULVANY, L. What do elementary and junior high school pupils eat for breakfast? Nutr. News 14:3-4. Oct.1950. 389.8 N957

10148 NELSON, P. E., JR. Relation of price to food selection. Amer. Dietet. Assoc. J. 26:769-770. Oct.1950. 389.8 Am34

Student food habits.

10149 ØGRIM, M. E. Food & food habits—in Norway. Gt. Brit. Min. Food. Food & Nutr. 5(9):9-13. Aug.25, 1950. 389.9 G79F

10150 SUVARNAKICH, K. The Thai diet. Nutr. Rev. 8:289-291. Oct.1950. 389.8 N953

#### NUTRITIVE AND VITAMIN CONTENT

10151 AUSTIN MARTIN, E. Valor alimenticio de la leche y los productos lácteos. Rev. Ganad. [San Salvador] 9(128/129):4. July/Aug.1950. 8 R3292

10152 BERNARD, P. La déchéance de notre pain quotidien. Monit. Agr. 3(127):1-2. Sept.10,1950. 14 M744

Nutritive value of flour.

10153 BEUK, J. F., FRIED, J. F., and RICE, E. E. Nutritive values of sausage and other table-ready meats as affected by processing. Food Res. 15:302-307. July/Aug.1950. 389.8 F7322

10154 CALLIMERI, M. Is bread a surpassed food? (In Italian.) Arte Bianca 5(28):3;(29):3. (Cont.) Oct.11-21, 1950. 389.8 Ar7

10155 CARDINAL, P. J. Vitamins by the ton. Macaroni J. 32(6):14,16,40. Oct.1950. 298.8 N46

Food enrichment.

10156 CATEL, W. Biochemische qualitätsunterschiede verschieden gedüngter gemüse und ihre auswirkung im ernährungsversuch bei säuglingen. Deut. Med. Wchnschr. 75:1337-1340. Oct.6,1950. 448.8 D48

10157 CRAVIOTO, O. Y., and others. Comparación del valor biológico de las proteínas del maíz, tortilla y tortilla-soja. Ciencia 10:145-147. Aug.5,1950. 475 C48

English summary.  
R. O. Cravioto, R. Huerta O., J. Guzman G., G. Massieu H., and J. Calvo de la Torre, joint authors.

10158 DAVIDOV, R., and GUL'KO, L. Vitamins B<sub>1</sub> and B<sub>2</sub> in milk. (In Russian.) Moloch. Promysh. 11(6): 19-21. June 1950. 44.8 M734

10159 DURAN QUEVEDO, T. Misión especial del azúcar de caña. III. Tierra Libre (ser.2)14(5):14-15. June 1950. 8 T443

Research in the nutritive value of sugar.

10160 ENDERS, C. Zur frage der heilwirkung von bier. Versuchsanst. f. das Gärungsgewerbe. Mitt. 1950: 90-98. Ref. July/Aug.1950. 390.08 V67

10161 ETTIEN, I. E. Speaking of cases. Dairy Goat J. 28(10):4. Oct.1950. 40.18 M592

Nutritive value of goat's milk.

10162 GARTH, R. Maybe the world can live on grass. Co-op. Home Mag. 55(10):15. Oct.1950. 280.28 W563

Grass as food and feed.  
10163 GOUGH, H. W., and LANTZ, E. M. Relation of variety and locality to niacin, thiamine, and riboflavin content of dried beans grown in three years. Food Res. 15:308-312. July/Aug.1950. 389.8 F7322

10164 GROOT, E. H. On the food value of butter. (In Dutch.) Chem. Weekbl. 46:699-701. Ref. Sept.30, 1950. 385 C42

10165 HOOGWERFF, H. Human nutrition. (In Dutch.) Nederlandse Ver. tot Bevord. der Biol.-Dyn. Landbmethode. Vruchtbare Aarde 8:36-41. June 1950. 80 N28

10166 JAFFE, W. G. Genética y mejoramiento de la calidad de los alimentos. Agro [El Valle] 5(13):26-28. Jan./Aug.1950. 9.95 Ag83

Discussion of vitamin content of food.

10167 JARVIS, D. C. How to age slowly with the aid of honey. Amer. Bee J. 90:486-487. Nov.1950. 424.8 Am3

10168 JARVIS, D. C. The use of honey in the feeding of the child. Amer. Bee J. 90:452. Oct.1950. 424.8 Am3



- 10169 KAMER, J. H. VAN DE. Determination of the nutritive value of proteins. (In Dutch.) Chem. Weekbl. 46:703-707. Ref. Sept.30,1950. 385 C42
- 10170 LAURAY, J. Les légumes et leurs vertus curatives. Foyer Rur. [Montreal] 10:17. Oct.1950. 7 F83
- 10171 LOOPER, M. M., STEPHENS, M. S., and BURTON, H. B. Two supplements improve calcium content of foods. J. Home Econ. 42:739. Nov.1950. 321.8 J82
- 10172 MOORJANI, M. N., and SUBRAHMANYAN, V. Comparative values of vegetable-milk protein and casein for the formation of blood proteins. Indian J. Med. Res. 38:145-152. Apr.1950. 448.8 In22
- 10173 MOURIQUAND, G., and EDEL, V. Sur l'action "eutrophique" de la "vitamine P." Internatl. Z. f. Vitaminforsch. 22:133-135. 1950. 389.8 Z33  
English summary.
- 10174 MOURIQUAND, G., and EDEL, V. "Vitamine P" et scorbut expérimental. Internatl. Z. f. Vitaminforsch. 22:129-132. 1950. 389.8 Z33  
English summary.
- 10175 MUELLER, H. Fruchtsäfte, spenden von kraft und gesundhelt. (Sum.) Jus de Fruits 10:39-40. Fourth Q.1950. 389.68 J98  
Text in English, p. 40-42.
- 10176 POLLOCK, R. C. Meat leads in nutrition and health; accomplishments in past half-century inspires greater effort in years ahead. Amer. Hampshire Herdsman 25(10):120,122,124. Oct.1950. 46.8 Am33
- 10177 REGISTER, U. D., and ELVEHJEM, C. A. The availability of proteins and vitamins in processed foods. Conf. Res. Proc. 1949:8-21. Ref. 50.9 C762
- 10178 RIDDELL, W. H. Grow old gracefully with milk. Amer. Milk Rev. 12(10):102. Oct.1950. 44.8 Am38  
Nutritive value.
- 10179 ROBINSON, A. D., TOBIAS, C. H., and MILES, B. J. The thiamine and riboflavin content of Manitoba grown wheat, oats, and barley of the 1947 crop. Canad. J. Res. Sect. F, Technol. 28:341-350. Sept.1950. 470 C16F
- 10180 SANTOS, E. The oyster in human nutrition. (In Portuguese.) Seleg. Agr. 5(52):51-53. Aug.1950. 9.2 Se4  
Nutritive value.
- 10181 SCHOONENS, J. G. Fish as a source of vitamins. (In Dutch.) Visserijwereld 9:769-770. Aug.18, 1950. 414.8 V82
- 10182 SOUZA LUZ, H. DE, and PECHNIK, E. Biological value of black beans. (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 3:201-208. 1950. 389.9 R47  
English summary.
- 10183 STARE, F. J. The nutritional effect of high protein diets. Conf. Res. Proc. 1949:22-26. 50.9 C762
- 10184 STORVICK, C. A., and others. Reduced ascorbic acid content of foods served in institutional quantities. Food Res. 15:373-378. Sept./Oct.1950. 389.8 F7322
- B. L. Davey, R. M. Nitchals, and R. E. Coffey, joint authors.
- 10185 TALLARICO, G. The biological value of oranges. (In Italian.) Ricerca Sci. 20:624-632. May 1950. 475 It1
- 10186 TALLARICO, G. Goat's milk this forgotten food. (In Italian.) Mondo del Latte 1950:327-328,331,333, 335. July 1950. 44.8 M74  
English summary.  
Nutritive value.
- 10187 TRUFANOV, A. V. Vitamin B<sub>12</sub>. (In Russian.) Uspekhi Sovrem. Biol. 29:464-466. May/June 1950. 442.8 Er3
- 10188 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Nutritive content of city diets. U. S. Bur. Human Nutr. & Home Econ. Spec. Rpt. 2, 23 p. Oct.1950. 1.982 A2F7382
- 10189 U. S. PRODUCTION AND MARKETING ADMIN. Dairy products plentiful in June. Chicago, 1950. 5 p. 1.956 A2D1422  
Chiefly nutritive value.
- 10190 WASHBURN, R. G., HIBBS, J. W., and KRAUSS, W. E. Vitamin A potency of market milk. Ohio. Agr. Expt. Sta. Res. C. 8, 8 p. Ref. Sept.1950. 100 Oh3R
- 10191 WATSON, SIR J. A. S. Discovery. I. Vitamins. Young Farmer 18:230-232. Sept./Oct.1950. 10 Y8
- 10192 WILDER, R. M. Ten years of enrichment of bread. Mod. Miller & Bakers News 77(22):21-22. Oct.28,1950. 298.8 M72
- 10193 WILSON, W. Preserved foods. Agr. Bur. N. S. Wales. State Conf. Hawkesbury Agr. Col. 26:34. 1950. 23 Ag82S  
Nutritive value and safety.

## MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 10194 ARGENTINA. MINISTERIO DE AGRICULTURA Y GANADERIA. Almanaque, 1950. Buenos Aires, 1950. 447 p. 9 Ag874
- 10195 ASSAM. DEPT. OF AGRICULTURE. Annual report for the year ending 31st March 1948. Shillong, 1950. 356 p. 22 As7Rp
- 10196 AUSTRALIAN AND NEW ZEALAND ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE. Report of the twenty-seventh meeting, Hobart meeting, January, 1949. Hobart, 1949. 231 p. 514 Au73
- 10197 BAKHAREV, A. N. Vitality of Michurin's teaching. (In Russian.) Agrobiologiya 1950(3):12-20. May/June 1950. 20 Ag822
- 10198 BARTHELMLESS, A. Hugo de Vries und die mutationstheorie; zum 50. gedenktage der ersten mitteilung über experimentelle mutationsforschung. Naturwiss. Rundschau 3:368-369. Aug.1950. 474 N216
- 10199 BELASH, T. I. For a creative scientific biology. (In Russian.) Selek. i Semen. 17(6):62-71. June 1950. 61.9 Se5
- 10200 BELEN'KIY, N. G. Triumph of Michurin's teaching. (In Russian.) Sovet. Zootekh. 4(6):3-8. June 1950. 49 So822
- 10201 BLAGOSKLONOV, K. N. Biology and agricultural importance of the field sparrow in the shelterbelt plantings of the South-East [of U. S. S. R.]. (In Russian.) Zool. Zhur. 29:244-254. Ref. May/June 1950. 410 R92  
Chiefly on its damage to agriculture.
- 10202 BOERSMA, T. The General Agricultural Syndicate and the planter. (In Dutch.) Bergcultures 19: 269. July 16, 1950. 22.5 B45
- 10203 BOSTROM, C. E. Can chemistry help solve the farm problem? Amer. Assoc. Cereal Chem. Trans. 8:101-103. Aug.1950. 59.9 Am3T
- 10204 BUZZATI-TRAVERSO, A. Genetics and general biology. (In Italian.) Sci. Genet. 3:271-282. Ref. May 1950. 442.8 Sci2
- 10205 CALIFORNIA. DEPT. OF AGRICULTURE. Economic poisons, 1949-50. Calif. Dept. Agr. Spec. P. 237, 121 p. 1950. 2 C121S
- 10206 CHAMBRE D'AGRICULTURE DE L'ÎLE MAURICE. Rapport du président sur l'exercice 1949/50. Rev. Agr. de l'Île Maurice 29:168-203. July/Aug.1950. 24 M44
- 10207 CHAPMAN, F. B. Farm pond woodies. Ohio Conserv. B. 14(10):14,32. Oct.1950. 279.9 Oh330  
Wood ducks.
- 10208 CONGRÈS INTERNATIONAL DE ZOOLOGIE, 13, PARIS, 1948. Comptes rendus. 1949. 603 p. 410.9 In8
- 10209 DANSK HEDESELSKAB. Annual report of the Danish Heath Society. (In Danish.) Hedeselsk. Tidsskr. 71:157-202. (To be cont.) June 30, 1950. 11 H35
- 10210 DASTANE, N. G. The role of birds in agriculture. Poona Agr. Col. Mag. 41:127-128. Aug.1950. 22 P79
- 10211 EDMISTER, F. C. Use of shrubs in developing farm wildlife habitat. No. Amer. Wildlife Conf. Trans. 15:519-550. 1950. 412.9 N814  
Includes discussion.
- 10212 ERIKSEN, S. A new approach to the rat problem. Cent. Exch. Messenger 5(4):35-37. Sept./Oct.1950. 280.28 C33



- 10213 FRANCKEN, H. J. L. The General Agricultural Syndicate in East Java. (In Dutch.) *Bergcultures* 19:265,267. July 16,1950. 22.5 B45
- 10214 GERSTELL, R. If an A-bomb fell near your farm. *Farm J.* 74(11):32-33,83-84,86-87. Nov.1950. 6 F2212
- 10215 GIBAN, J. Comment détruire les rats. *Bétail & Basse-Cour* 5:324-326. Aug./Sept.1950. 49 B462
- 10216 GRADOV, A. Michurin's teaching—inheritorship of millions. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):3-4. June 1950. 281.8 K83
- 10217 GRAHAM, J. J. T. Report on economic poisons. *Assoc. Off. Agr. Chem. J.* 33:755-758. Aug.15, 1950. 381 As7
- 10218 HAGEDOORN, A. L. Inheritance and environment equally important; selective breeding based on genetics to obtain better stock and plants; pedigree no guarantee of quality. *Farmer's Wk. [Bloemfontein]* 79:10-11. Aug.23,1950. 24 F225
- 10219 HARTSUIJKER, K. Control and information on economic poisons. (In Dutch.) *Gelders Landtbl.* 13(34):14-15. Sept.2,1950. 12 G282
- 10220 HOWARD, W. E. Wildlife depredations on broadcast seedings of burned brushlands. *J. Range Managt.* 3:291-298. Oct.1950. 60.18 J82
- 10221 ITERSON, G. VAN, JR. A review of the 25 years of existence of the General Agricultural Syndicate. (In Dutch.) *Bergcultures* 19:254-255. July 16,1950. 22.5 B45
- 10222 KALMAR LÄNS SÖDRA HUSHÄLLNINGSSÄLLSKAP. Activities of Kalmar Province Southern Agricultural Society during the year 1948. (In Swedish.) *Kalmar Läns Södra Hushållssk. Årsskr.* 1949:39-56. 11 K122
- 10223 KAMP, J. V. VAN DER. The genesis of the Syndicate. (In Dutch.) *Bergcultures* 19:256-257,259,261, 263. July 16,1950. 22.5 B45
- 10224 KENYA. DEPT. OF AGRICULTURE. Annual report, 1948. I-III. Nairobi,1950. 228 p. 24 Af8A
- 10225 KEYSER, J. S. Food supply and agricultural production. II. (In Dutch.) *Co-op [Rotterdam]* 5:169-174. Aug.1950. 280.28 C7857  
Chiefly on FAO.
- 10226 KIRKPATRICK, M. G. Warfarin—new rat killer. *Everybodys Poultry Mag.* 55(9):38. Oct.1950. 47.8 F213P
- 10227 KNICKERBOCKER, M. E., MCKENNON, F., and BEALS, O. K. The Oregon Department of Agriculture's functions in these four counties. *Oreg. Dept. Agr. Agr. B.* 167:13-15. Sept.1950. 2 Or3  
Malheur, Baker, Union, and Wallowa.
- 10228 KOPPARBERGS LÄNS HUSHÄLLNINGSSÄLLSKAP. Report of the activities of Kopparberg's Province Agricultural Society during the year 1949. (In Swedish.) *Kopparbergs Läns Hushållssk. Handl.* 98:56-110. 1949. 11 K83
- 10229 LACLAIR, J. B. Report on rodenticides. *Assoc. Off. Agr. Chem. J.* 33:758-760. Aug.15,1950. 381 As7
- 10230 LILES, J. L. Chemicals: their economic contribution to district agriculture. *Fed. Reserve Bank Atlanta. Mon. Rev.* 35(9):1-3. Sept.30,1950. 284.8 F31A
- 10231 MCCRAY, C. W. R., and WYATT, G. A. Storage and disposal of poisons and their containers. *Queensland Agr. J.* 71:59-60. July 1950. 23 Q33
- 10232 MACDONALD, P. J. W. The Organization for Scientific Research in Indonesia. (In Dutch.) *Chron. Nat.* 106:139-157. May 1950. 514 B31
- 10233 MALMÖHUS LÄNS SKOGS- OCH BETESVÄRDSFORENING. Report of the activities of Malmöhus Province Forest and Pasture Association during the year 1949. (In Swedish.) *Malmöhus Läns Hushåll. Sällsk. Kvartsskr.* 1950:156-165. 11 M29
- 10234 MANUAL de siembras y almanaque para 1950; 34a edición. Montevideo,1949. 48 p. 90.03 AL6
- 10235 MAPPELBECK, J. Putting yardsticks on new farm poisons. *West. Grower & Shipper* 21(11):11, 17-19. Oct.1950. 280.38 W52  
Regulation of economic poisons.
- 10236 MEZENTSEV, V. The science of abundance. (In Russian.) *Molod. Kolkhoz.* 17(6):6-8. June 1950. 110 M73  
Michurinite biology.
- 10237 MOEWUS, L. Die lebende zelle, ein "chemisches industriewerk"; neue erkenntnisse der biochemischen genetik. *Umschau* 50:556-558. Sept.15,1950. 47.4 Um7
- 10238 NEW JERSEY. DEPT. OF AGRICULTURE. Thirty-fourth annual report, July 1, 1948-June 30,1949. Trenton,1949. 191 p. 2 N46Re
- 10239 NEW YORK. STATE COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. List of publications published by the New York State Colleges of Agriculture and Home Economics and by the Cornell University Agricultural Experiment Station. *N. Y. Agr. Col. Cornell Ext. B.* 47,rev.,31 p. Sept.1950. 275.29 N48E
- 10240 NORTH AMERICAN WILDLIFE CONFERENCE. Transactions, fifteenth conference, March 6, 7, and 9, 1950, San Francisco, California. Washington,1950. 681 p. 412.9 N814
- 10241 ODERKIRK, G. C. Warfarin—rat and mouse killer. *Agr. Leaders' Digest* 31(8):16-18. Sept.1950. 275.28 Am3
- 10242 OHIO. DEPT. OF AGRICULTURE. Official report for the period January 1st, 1949 to June 30th, 1950. Columbus,1950. 128 p. 2 Oh35
- 10243 OPARIN, A. I. On non-cellular forms of life and the origin of cells. (Results of the conference and discussion at the Division of Biological Sciences of the Academy of Sciences of U.S.S.R.). (In Russian.) *Akad. Nauk SSSR. Vest.* 20(7):119-122. July 1950. 511 Ak14V  
Cytological research by O. B. Lepeshinskafä.
- 10244 OPARIN, A. I. Progressive ideas of Soviet biology. (In Russian.) *Les i Step'* 2(5):34-41;(7):16-23. May,July 1950. 99.8 L565
- 10245 PALMER, E. L., and GORDON, E. L. Nature writings; glimpses of a nature-study philosophy. *N. Y. Agr. Col. Ext. Cornell Rur. Sch. L.* 44(1),63 p. Sept.1950. 275.29 N48R
- 10246 PAVAN, M. Recherches sur les antibiotiques d'origine animale. *Cong. Internat. de Zool. Compt. Rend.* (1948)13:501-504. 1949. 410.8 In8
- 10247 PEDERSEN, K. The meeting of the General Danish Gardener's Association at Bornholm, Aug. 23, 1950. (In Danish.) *Gart.-Tid.* 66:377-398. Sept.6,1950. 80 G192
- 10248 PĚNKAVA, J. The radioactivity and the cosmic radiation as biological factors. (In Czech.) *Ceskoslov. Akad. Zeměděl. Sborn.* 22:448-466. Ref. 1950. 19.5 C332C  
English summary.
- 10249 PIEKARSKI, G., and HOLZ, K. Über die wirkung des kontakt-insecticiden handelspräparates "gix" auf ratten und mäuse. *Arch. f. Expt. Path. u. Pharmakol.* 210:71-90. Ref. Apr.24,1950. 448.8 Ar2
- 10250 PIRIE, N. W. A biochemical approach to viruses. *Nature [London]* 166:495-496. Ref. Sept.23, 1950. 472 N21
- 10251 PUERTO RICO. DEPT. DE AGRICULTURA Y COMERCIO. Almanaque agrícola de Puerto Rico para los años 1948-1949-1950. San Juan,1950. 319 p. 8 AL62
- 10252 RATHJENS, C. Die landwirtschaftsgeographischen arbelten des Geographischen Instituts der Technischen Hochschule München. *Ber. z. Deut. Landesk. 8:* 222-229. Ref. July 1950, 18 B454
- 10253 RICHENS, R. H. Lysenko: the scientific issue. *New Biol.* 8:9-35. Apr.1950. 442.8 J63  
Genetic theories in the U.S.S.R.
- 10254 ROOS, M. J. On the inbreeding problem. I. (In Dutch.) *Pluimveeteelt* 3(20):1. Sept.15,1950. 47.8 P722
- 10255 SANTO DOMINGO. CÁMARA OFICIAL DE COMERCIO, AGRICULTURA E INDUSTRIA. Memoria de las labores realizadas durante el año 1949. Ciudad Trujillo,1950. 79 p. 287 Sa58
- 10256 SASKATCHEWAN. DEPT. OF AGRICULTURE. Forty-fifth annual report for the twelve months ended March 31, 1950. Regina,1950. 294 p. 7 Sa73
- 10257 SCHWEIZER, J. Planters, experimentation station man and entrepreneur. (In Dutch.) *Bergcultures* 19:271,273-275. July 16,1950. 22.5 B45
- 10258 SCHWEIZERISCHER BAUERNVERBAND. Jahresbericht, 52, 1949. Schweiz. Bauernsek. Mitt. 146, 144 p. 1950. 17 Se2  
Includes 52nd jahresbericht of the Schweizerischer Bauernsekretariat.  
Also published in French.
- 10259 SHAW, R. R. Communication through literature. *Unasylya* 4:105-109. July/Sept.1950. 99.8 Un1  
Library services.



- 10260 STEWART, M. Mousetown; meadow mice on an average Midwest farm eat five tons of hay annually. The well-fed mice raise amazing numbers of hungry young to plague the farmer. *Farm Q.* 5(3):34-35, 134. Autumn 1950. 6 F22995
- 10261 TEXAS. UNIVERSITY. INSTITUTE OF LATIN-AMERICAN STUDIES. Basic industries in Texas and northern Mexico; conference sponsored by the Institute of Latin-American Studies of the University of Texas, June 9-11, 1949. Austin, U. Tex. Press, 1950. 193 p. (Latin-Amer. Studies, 9) 280 T31
- 10262 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Distribution of Bureau of Human Nutrition and Home Economics printed publications. Washington, 1950. 16 p. 1.982 A2D63
- 10263 U. S. DEPT. OF AGRICULTURE. LIBRARY. Available bibliographies and lists. U. S. D. A. Libr. Libr. List 25, rev., 2 p. Sept. 19, 1950. 1.916 L612
- 10264 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Defense controls and farm supplies, by R. S. Trigg and K. M. Gopen. Washington, 1950. 4 p. 1.914 R2R11
- 10265 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Origin, structure, and functions of the U. S. Department of Agriculture. Rev. Washington, 1950. 25 p. (Doc. 1) 1.914 A2O4
- 10266 U. S. EXTENSION SERV. List of State extension directors. Washington, 1950. 2 p. 1.9 Ex892Ls
- 10267 U. S. OFF. OF EXPERIMENT STATIONS. List of agricultural experiment stations in the United States. Washington, 1950. 2 p. 1.9 Ex6Li
- 10268 VINOGRADOV, M. P. Osnovy michurinskoi biologii [Principles of Michurinite biology]. Leningrad, Ministerstvo Prosveshcheniia RSFSR, Leningradskoe Otd-nie, 1950. 318 p. 442 V77
- 10269 WEST VIRGINIA. AGRICULTURAL EXPERIMENT STATION. Agricultural publications available from West Virginia University. Morgantown, 1950. 2 p. 100 W52A
- 10270 WILSON, M. L. The meaning of the United Nations flag. Washington, U. S. Ext. Serv., 1950. 3 p. 1.913 A2W69
- Talk given as part of the program for observance of United Nations Day, Patio, U. S. Department of Agriculture, Oct. 24, 1950.
- 10271 WOLFE, T. K. Comic book trains farm agents to sell more supplies. *Printers' Ink* 233:46. Oct. 6, 1950. 238.8 P932
- 10282 COOLEY, R. A. Dedication. Fernald Club Ybk. 19:2-9. Jan. 1950. 420 M38
- Biography of Ralph Robinson Parker.
- 10283 CORDDRY, M. U. Eastern pioneers. *Land* 9:355-365. Autumn 1950. 279.9 L22
- Ashe County, North Carolina.
- 10284 DORION, P. A. Laurent Barré - esquisse biographique. *Digeste de l'Éleveur* 4(10, i.e. 11):10-15. July 1950. 49 D56
- 10285 DVORIANKIN, F. Michurin's dream. (In Russian.) *Molod. Kolkhoz.* 17(6):2-4. June 1950. 110 M73
- 10286 EDELSTEN, H. M. Obituary; Sir John Fryer, K. B. E., F. R. S. *Entomologist* 82:47-48. Feb. 1949. 421 En8
- 10287 EXPLORERS and naturalists of the flora of Mozambique. (In Portuguese.) *Moçambique* 16(61):97-112. Jan./Mar. 1950. 110 M71
- On the work of A. de F. Gomes e Sousa, with a bibliography of his writings.
- 10288 FREEBORN, S. B. Tribute to Professor W. B. Herms. *Calif. Mosquito Control Assoc. Proc. & Papers* 18:2-3. 1950. 428 C763
- 10289 FUSSELL, G. E. Cuthbert William Johnson (1799-1878); a protagonist of salt as manure. *Fert. Feed. Stuffs & Farm Supplies J.* 36:577-579. Sept. 20, 1950. 57.8 F413
- 10290 FUSSELL, G. E. Lady botanists of the nineteenth century. I. Priscilla Wakefield. *Gard. Chron.* 128:130-131. Sept. 23, 1950. 80 G162
- 10291 GARCIA BADELL, J. G. Los escritores españoles de agricultura en el siglo XVIII. *Tolva* 8:566-570. Aug. 1950. 59.8 T58T
- 10292 GORSHKOV, I. S. The great transformer of nature, I. V. Michurin. (In Russian.) *Les i Step'* 2(6):11-17. June 1950. 99.8 L565
- 10293 GRAM, K. Hjalmar Jensen. 21. September 1865-20. December 1948. (In Danish.) *Bot. Tidsskr.* 48:301-302. 1949. 450 B654
- 10294 GRAND, R., and DELATOUCHE, R. L'agriculture au moyen âge de la fin de l'Empire Romain au XVII<sup>e</sup> siècle. Paris, E. de Boccard, 1950. 740 p. (Savoy, E. L'agriculture a travers les âges, v. 3) 30.9 Sa9
- 10295 GROUT, R. A. The Chief of the Division of Bee Culture. *Amer. Bee J.* 90:494-495, 505. Nov. 1950. 424.8 Am3
- James I. Hambleton and his work.
- 10296 HEIM, R. Hommage à René Maire. *Acad. des Sci. Colon. Compt. Rend.* 10:10-21. Jan. 6/20, 1950. 505 Ac1Co
- 10297 HERKLOTZ, A. Zum 200. geburtstag von François Huber. *Deut. Bienenztg.* 5:153-155. Sept. 1, 1950. 424.8 D488
- 10298 HOMMAGE à François Huber pour le 200<sup>e</sup> anniversaire de sa naissance. *Gaz. Apic.* 51:177-179. Aug. 1950. 424.8 G25
- 10299 HORNE, B. C. San Martin, agricultor. *Bolsa de Com., Rosario. Rev.* 38(927):3-8. Aug. 31, 1950. 287 R71
- 10300 HUNT, M. L. Better known as Johnny Appleseed. Philadelphia, Lippincott, 1950. 212 p. 120 C36Hu
- 10301 IOGANZEN, B. G. Professor N. N. Lavrov and his scientific activity (To the 60th anniversary of his birth.) (In Russian.) *Priroda* 39(5):73-76. May 1950. 410 P933
- 10302 ISAEV, S. I. Brilliant transformer of nature. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(7):8-9. July 1950. 95.8 V77
- I. V. Michurin.
- 10303 ISAEV, S. I. Founder of Soviet agrobiology [I. V. Michurin]. (In Russian.) *Agrobiologiya* 1950(3):3-11. May/June 1950. 20 Ag822
- 10304 IVANOV, L. A. Great Darwinist, K. A. Timiriazov (on the thirtieth anniversary of his death.) (In Russian.) *Les i Step'* 2(4):19-27. Apr. 1950. 99.8 L565
- 10305 LANGMAN, I. K. Dos figuras casi olvidadas en la historia de la botanica mexicana. *Soc. Mex. de Hist. Nat. Rev.* 10:329-336. Dec. 1949. 516 So15
- Carlos Sartorius and Carlos Alberto Purpus.
- 10306 LJONES, B. Leafing through Bergström's old field book. (In Norwegian.) *Norsk Hagetidend* 66:163-164. (To be cont.) Aug. 1, 1950. 80 N81
- Horticulture.

## HISTORY AND BIOGRAPHY

- 10272 ANDERSEN, S. Johannes Lindhard. 25. April 1870-11. October 1947. (In Danish.) *Bot. Tidsskr.* 48:299-301. 1949. 450 B654
- 10273 ANGELROTH, H. Les plus anciens cultivateurs de Belgique: les Omaliens. *Ann. de Gembloux* 56:130-141. Ref. Third Q. 1950. 13 G28
- An archeological study.
- 10274 ANNAND, P. N., and RICHMOND, R. G. Bevy Marshall Gaddis 1891-1949. *J. Econ. Ent.* 43:571-572. Aug. 1950. 421 J822
- 10275 BAIRSTOW, L. Obituary: Dr. S. Maulik, M.A., D.L.C. *Ent. Mon. Mag.* 86:225-226. Aug. 1950. 421 En86
- 10276 BELFRAGE, S. Linnaeus's fellow-travellers during the Scanian journey. (In Swedish.) *Svenska Linné-Sällsk. Årsskr.* (1949) 32:43-56. 1950. 502 Sv2
- English summary, p. 119.
- 10277 BIRCHFIELD, J. Sage of Round Hill. *Land* 9:378-380. *Land* 9:378-380. Autumn 1950. 279.8 L22
- J. Russell Smith.
- 10278 BRYK, F. Benoist de Maillet und Carl von Linné: eine historische parallele. *Svenska Linné-Sällsk. Årsskr.* (1949) 32:99-111. Ref. 1950. 502 Sv2
- English summary, p. 120.
- 10279 CAMARGO, R. DE. An illustrious agronomist who is gone, Joaquim de Barros Alcantara, and his work for agriculture and animal industry. (In Portuguese.) *São Paulo. Supt. dos Serv. do Café B.* 25:266-272. Apr. 1950. 68.29 Sa63
- 10280 CHAUSSON, H. Une compatriote de François Huber: la mystérieuse Madame Vicat. *Gaz. Apic.* 51:180. Aug. 1950. 424.8 G25
- 10281 CLARK, D. H. Lewis and Clark, botanists—by order of the President. *Arboretum B.* 13(3):8, 37. Fall 1950. 451 Ar1



- 10307 LOVERING, F. W. Maine farm dates from Revolution. *New Eng. Homestead* 123(19):5,12. Oct.14, 1950. 6 N442
- 10308 MCKEE, I. Historic wine growers of Santa Clara County. *California* 40(9):14-15,32-34. Ref. Sept. 1950. 280.8 C12
- 10309 MAHADEVAN, C. Professor Birbal Sahni, Sc.D. (Cantab.), F.R.S. (1891-1949). *Indian Acad. Sci. Proc. Sect. B* 31:287-301. June 1950. 513 In25B  
Includes list of his publications.
- 10310 MAUMENÉ, A. André le Nostre, jardiniste et urbaniste. *Vie à la Campagne* 39:290-299. Sept.1950. 80 V67
- 10311 MAY, A. E. Rewards for improvements in agriculture 190 years ago. *Essex Farmers' J.* 29(6):21-22. Aug.1950. 10 Es72
- 10312 NEWALD, E. Dem gedenken Franz Huber zum 200. geburtstag. *Niederösterreich. Imker* 1:181-183. (Concl.) July 1950. 424.8 N55
- 10313 NOBLE, W. R. Meet the man who will administer farm equipment defense control. L. B. Taylor of the U.S.D.A. has good reputation in farm equipment industry for his fairness and good common sense. *Farm Equip. Retailing* 10(5):40. Nov.1950. 58.8 F2292
- 10314 NORDHAGEN, R. Linnaeus's relations to Norwegian naturalists. (In Swedish.) *Svenska Linné-Sällsk. Årsskr.* (1949)32:5-18. 1950. 502 Sv2  
English summary, p. 118.
- 10315 OBITUARIES. *Entomologist* 82:21-22,143-144, 215-216,263-264. Jan.,June,Sept.,Nov.1949. 421 En8  
J. W. S. Macfie, O. Bang-Haas, B. W. Adkin, T. Greer, L. W. Newman, W. Fassnidge, and F. Littlewood.
- 10316 OLSSON, T. A student of Linnaeus on Linnaeus. (In Swedish.) *Svenska Linné-Sällsk. Årsskr.* (1949)32:68-70. 1950. 502 Sv2  
English summary, p. 119.  
Recollections of Adam Afzelius.
- 10317 ØSTERGAARD, J. Abbot Vilhelm—protector of gardening. (In Danish.) *Gart.-Tid.* 66:372-373. Aug. 30,1950. 80 G192
- 10318 PEGLION, V. Memorial to Professor Dante Gibertini. (In Italian.) *Agr. Romagn.* 1950(15/16):3-4. Aug.10,1950. 16 Ag828
- 10319 PELLET, K. N. E. Miller, 1873-1940. II. *Amer. Bee J.* 90:444-445. Oct.1950. 424.8 Am3
- 10320 PIZA JUNIOR, S. DE T. Carlos Teixeira Mendes, born for agriculture, lived by agriculture, and died in agriculture. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 25:205-212. July/Aug.1950. 9.2 R324
- 10321 PLATT, F. L. Professor "Jimmie" Rice, dean of the poultry industry. *Everybody's Poultry Mag.* 55(9):8-9,40-42. Oct.1950. 47.8 F213P
- 10322 PRAEGER, R. L. Some Irish naturalists, a biographical note-book. *Dundalk, Tempest*, 1949. 208 p. 409 P88
- 10323 PRICE, H. L. Virginia farmers at war; essays on agricultural production in the Old Dominion during the Second World War. *Va. Agr. Col. Ext. B.* 179,108 p. Apr.1950. 275.29 V81B
- 10324 PYLE, R. Honor to whom honor is due. *Amer. Rose Mag.* 9(2):4-5. Sept./Oct.1950. 80 Am327A  
J. H. McFarland.
- 10325 REICHERT, I. H. S. Fawcett, 1877-1948. *Palestine J. Bot. Rehovot Ser.* 7:192-196. Dec.1949. 450 P172
- 10326 REICHERT, I. Redcliffe N. Salaman (on his 75th birthday). *Palestine J. Bot. Rehovot Ser.* 7:187-191. Dec.1949. 450 P172
- 10327 RIGNEY, H. W. Gregory B. Mathews, S.V.D.: 1903-1949. *Science* 112:353. Sept.29,1950. 470 Sci2
- 10328 RIVERO, P. C. San Martín, hombre civil, labrador, vitivinicultor y molinero. *Vinos, Viñas y Frutas* 45(538):5-22. July 1950. 9 Ag89
- 10329 ROOT, E. R. An evaluation of the work of Dr. E. F. Phillips. *Gleanings Bee Cult.* 78:668-670. Nov. 1950. 424.8 G47
- 10330 SAX, K. Oakes Ames, 1874-1950. *Arnold Arboretum J.* 31:335-349. Oct.1950. 451 Ar6J  
Includes list of his publications.
- 10331 SCHULTE-WULWER. 50 jahre landbau in Wesser-Ems 36:725-726. Sept.6,1950. 18 L2345
- 10332 SEARS, P. B. Darwin and the living landscape. *Land* 9:346-354. Autumn 1950. 279.8 L22
- 10333 SNYDER, T. E. Herbert Spencer Barber, 1882-1950. *Coleopterists' B.* 4:51-54. Aug.1950. 421 C674  
Bibliography of Herbert S. Barber, by R. E. Blackwelder, p. 55-59.
- 10334 SØRENSEN, T. Guðni Guðjónsson. 18. July 1913-31. December 1948. (In Danish.) *Bot. Tidsskr.* 48:303-305. 1949. 450 B654
- 10335 STEWARD, F. C., and DUFRENOY, J. Prof. H. S. Reed. *Nature [London]* 166:586-587. Oct.7,1950. 472 N21
- 10336 SVEDELIUS, N. Otto Rosenberg. (In Swedish.) *Vetensk. Soc. Årsb.* 1949:17-31. 1950. 502 Up7A
- 10337 TAYLOR, P. R. Engineer and husbandman; the first of two articles on Arthur J. Mason. *Land* 9:367-372. Autumn 1950. 279.8 L22
- 10338 TIMOFEEV, V. P. Academician V. N. Sukachev. (In Russian.) *Les i Step' 2(6):68-71.* June 1950. 99.8 L565
- 10339 TOLMACHEV, I. A. Ivan Vladimirovich Michurin (To the 15th anniversary of his death). (In Russian.) *Sovet. Agron.* 8(6):6-16. June 1950. 20 So84
- 10340 VOL'FKOVICH, S. I., and SOBOLEV, F. S. D. I. Mendeleev and chemicalization of agriculture. (In Russian.) *Priroda* 39(6):84-95. June 1950. 410 P933
- 10341 WADE, J. S. Dr. L. O. Howard. *Nature [London]* 166:460-461. Sept.16,1950. 472 N21
- 10342 WEHRLE, L. P. Charles Taylor Vorhies, 1879-1949. *J. Econ. Ent.* 43:573. Aug.1950. 421 J822
- 10343 WEIGLIN, P. Der grosse Haller. *Nat. u. Nahr.* 4(13/14):10-12. July 1950. 80 N218
- 10344 WOODSON, W. D. Our first "spider man." *Nature Mag.* 43:485-487. Nov.1950. 409.6 N214  
Life of Nicholas Marcellus Hentz.
- 10345 ZIMMERMAN-GRIESS, S. Filippo Silvestri. *Palestine J. Bot. Rehovot Ser.* 7:198. Dec.1949. 450 P172

## HOME MANAGEMENT

- 10346 BENTLEY, M. J. Refinishing furniture. *Purdue U. Agr. Ext. L.* 309,19 p. July 1950. 275.29 In2L
- 10347 BEVERIDGE, E. Pots and pans for your kitchen. *U. S. D. A. Home & Gard. B.* 2,31 p. Aug.1950 1 Ag84Hg
- 10348 BREW, M. L. Situation and outlook for consumer goods; clothing and textiles. *Washington, U. S. Bur. Human Nutr. & Home Econ.*, 1950. 6 p. 1.982 E2B75  
Talk at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.
- 10349 CARNEY, M. Pressing equipment. *N. Y. Agr. Col. Cornell Ext. B.* 793,16 p. Sept.1950. 275.29 N48E
- 10350 CARNEY, M. Spot and stain removal. *N. Y. Agr. Col. Cornell Ext. B.* 356,rev.,35 p. Sept.1950. 275.29 N48E
- 10351 EDWARDS, N. L. Good light for good living. *Hawaii. U. Agr. Ext. Home Econ. C.* 245,6 p. Sept.1950. 275.29 H312H
- 10352 EDWARDS, N. L. Lamps and lamp shades. *Hawaii. U. Agr. Ext. Home Econ. C.* 246,6 p. Sept.1950. 275.29 H312H
- 10353 EDWARDS, N. L. Windows, the eyes of the home. *Hawaii. U. Agr. Ext. Home Econ. C.* 247,2 p. Sept.1950. 275.29 H312H
- 10354 FEAGIN, G. A family of aprons. *Hawaii. U. Agr. Ext. Home Econ. C.* 237,3 p. June 1950. 275.29 H312H
- 10355 FEAGIN, G. Keiki malo and tie shirt. *Hawaii. U. Agr. Ext. Home Econ. C.* 238,2 p. July 1950. 275.29 H312H
- 10356 FEAGIN, G. Make your own table mats. *Hawaii. U. Agr. Ext. Home Econ. C.* 241,2 p. July 1950. 275.29 H312H
- 10357 FEAGIN, G. 1950 apron. *Hawaii. U. Agr. Ext. Home Econ. C.* 239,2 p. July 1950. 275.29 H312H
- 10358 FEAGIN, G. Sew-simple baby bib. *Hawaii. U. Agr. Ext. Home Econ. C.* 240,2 p. July 1950. 275.29 H312H
- 10359 FEAGIN, G. Tie-dye. *Hawaii. U. Agr. Ext. Home Econ. C.* 242,4 p. July 1950. 275.29 H312H



10360 GEORGIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Plans for cooperative home demonstration work with farm families, Georgia, 1950. Athens? 1950? various pagings. 275.29 G29PL

10361 GEROCK, E. Die bäuerliche hauswirtschaft. Stuttgart, Franckh'sche Verlagshandlung, 1949. 194 p. 321 G31

10362 MCCORDIC, M. P., and YOUNG, L. A. Ironing made easier. Rev. Wis. Agr. Col. Ext. Spec. C., 8 p. July 1950. 275.29 W75S

10363 MACDONALD, J. F., and WILLIAMSON, L. Household cleaning. N. Y. Agr. Col. Cornell Ext. B. 790, 32 p. Aug. 1950. 275.29 N48E

10364 MCIVER, J. Suits and coats. N. C. Agr. Col. Ext. Misc. Pam. 129, 3 p. May 1950. 275.29 N811M

10365 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. A child's poncho. Washington, 1950. 2 p. 1.982 A2C432

10366 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Summary of informational materials completed July 1, 1949 to June 30, 1950. Washington, 1950. 11 p. 1.982 A2Su6

10367 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Zip-sleeve raincoat. Washington, 1950. 2 p. 1.982 A2Z6

10368 U. S. EXTENSION SERV. Fact sheet about making United Nations flags at home. Washington, 1950. 4 p. 1.913 A2F114

10369 U. S. EXTENSION SERV. Preliminary information regarding the program of the Cooperative Extension Service to encourage the home making of United Nations flags. Washington, 1950. 6 p. 1.913 A2P912

10370 U. S. EXTENSION SERV. Suggestions for making an all-appliqued United Nations flag (omitting use of screen-printed world design). Washington, 1950. 3 p. 1.913 A2Su363

10371 U. S. EXTENSION SERV. U.N. flag-making ideas. Washington, 1950. 3 p. 1.913 A2Un3

#### INTERNATIONAL RELATIONS

10372 ADAMS, T. M. United Nations' FAO. What's New Home Econ. 15(2):86. Oct. 1950. 321.8 W55

10373 ANDREWS, S. International developments and their impact on American agriculture. (Sum.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:248-249. 1950. 4 As7

10374 BRANNAN, C. F. To light other lamps. Assoc. Land-Grant Col. & Univ. Proc. (1949)63:84-91. 1950. 4 As7

The Point IV program and international cooperation in agriculture.

10375 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. United States delegation, FAO conference, 5th session, Washington, D. C., November 1949. Digest of conference events and decisions. Washington? 1949. 4 p. 389.9 F735Und

10376 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. COUNCIL. Report of the United States delegation, sixth session, held in Paris, France, 13-25 June, 1949. n.p., 1949. 27 p. 389.9 F7355R

10377 HALLECKER. Das Marshallplan-abkommen vom 15. Dezember 1949. Zucker 3:283-285. July 1, 1950. 65.8 Z82

10378 MOORE, R. E. Our challenge—technical cooperation. Washington, U. S. Off. Foreign Agr. Relat., 1950. 7 p. 1.943 M78

Paper delivered before the Agricultural Experiment Station Section and the Home Economics Research Section, conference of the Association of Land-Grant Colleges and Universities, Washington, D. C., Nov. 13, 1950. International cooperation.

10379 SALERNI, E. Oportunidad de colaboración Colombo-italiana en el campo agrícola-industrial y de colonización. Rev. Nac. de Agr. [Bogotá] 44(543):50-56. July 1950. 9.4 R32

10380 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Teamwork in world agriculture. U. S. D. A. Agr. Inform. B. 21, 21 p. 1950. 1 Ag84Ab

10391 ZAVAGLI, V. Cooperative projects of the Food and Agriculture Organization (F.A.O.) and the Office International des Epizooties (O.I.E.). (In Italian.) Zooprofilassi 5:434-436. Sept. 1950. 41.8 Z72

#### METEOROLOGY

10382 ALISOV, B. P. Klimaticheskie oblasti zarubezhnykh stran [Climatic regions of foreign countries]. Moskva, Gos. Izd-vo Georg. Lit-ry, 1950. 349 p. 340 AL4

10383 ALLIS, J. A. Results of rainfall and runoff studies. Agr. Engin. 31:518,520,522,524. Oct. 1950. 58.8 Ag83

10384 BARNES, C. S. Precipitation control. Ariz. Cattlelog 5(12):60-61. Aug. 1950. 43.8 Ar42

10385 BERGEIRO, J. M. Para los educacionistas rurales: el niño y el tiempo atmosférico. Uruguay. Min. de Ganad. y Agr. B. Inform. 326:15;327:4. June 22-29, 1950. 9.9 G15B

10386 CALVET, E. La pluie artificielle. France. Cent. de Rech. et d'Expt. du Génie Rur. Études et Trav. 9,56 p. Ref. 1949? 58.9 P21

10387 FLEMING, R. Making rain "seeding" clouds can produce extra KWH at low cost. Pub. Power 8(10):15-17,30. Oct. 1950. 335.8 P96

10388 GONÇALVES, P. A. Temperature and rains in the rice districts of Crowley, U. S. A., and Cachoeira, Rio Grande do Sul. (In Portuguese.) Lav. Arroz. 4(43):43-45. July 1950. 59.8 L39

10389 HOPWOOD, T. Weather cycles caused by influence of planets; similarity of wet periods in Australia and Union [of South Africa] proved by rainfall statistics. Farmer's Wk. [Bloemfontein] 79:37. Sept. 6, 1950. 24 F225

10390 KERANEN, J. The spring frosts in our country. (In Swedish.) Forsk.- och Försöksresultat 2:25-26. May 31, 1950. 20 F77

10391 KIMBLE, G. Where do we stand with artificial rainfall? (In Italian.) Agenzia Romana Note e Inform. Agr. 60:1-2. Sept. 13, 1950. 281.8 Ag3

10392 MAGNIN, G. DE. La lutte décevante contre la grêle; la faillite de la fusée. Tribune Agr. (n.s.) 43(789):1. Sept. 1, 1950. 24 T732

10393 MOZZI, U. Rockets against hail. (In Italian.) Glor. di Agr. 60:270. Aug. 27, 1950. 16 It1G

10394 POST, J. J. The weather and the high yields in 1949. (In Dutch.) (Sum.) Landbk. Tijdschr. 62:556-560. July 1950. 105.2 Or3

10395 POST, J. J. The weather in the summer of 1950. (In Dutch.) Friesch Landtbl. 47:558. Sept. 15, 1950. 12 F91

10396 POWERS, W. L. Climate and its relation to agriculture, Corvallis, Oregon, area, 1889-1950. Oreg. Agr. Expt. Sta. C. Inform. 487, 13 p. Aug. 1950. 100 Or3C

10397 RASSOW, L. Agrarmeteorologie. Nat. u. Nahr. 4(13/14):15. July 1950. 80 N218

10398 RICHARDS, L. G. Cloud cowboys. Pacific Grange Farmer 1950:3-5. Oct. 1950. 6 P115

Cloud seeding to produce rain, fight off hail and lightning storms, and dispel fog.

10399 RICHARDS, L. G. La lluvia artificial ya no es una tentativa, sino una realidad. Agronomía [Habana] (ser.2)10(8):27-28. Aug. 1950. 8 C893

10400 SELISHCHENSKAIA, A. A. Survey of autumnal phenological observations for 1949. (Data of the Phenological Post of the Geographic Society of U. S. S. R. in Lesnoe?). (In Russian.) Vsesoiuzn. Geog. Obshch. Izv. 82:320-323. May/June 1950. 511 L546

10401 SIDGWICK, J. B. Man makes rain. Countryman [Burford] 42:56-60. Autumn 1950. 281.28 C832

10402 STAPLETON, H. N. Meteorological observations for March 1950. Mass. Agr. Expt. Sta. Met. Ser. B. 735, 4 p. Mar. 1950. 100 M38H

10403 THOMAS, N. F. Rain making 60 years ago. Dakota Farmer 70(19):14-15. Oct. 7, 1950. 6 D14

#### PERSONNEL

10404 JOINT COMMITTEE ON TRAINING FOR GOVERNMENT SERV. OF THE ASSOCIATION OF LAND-GRANT COLLEGES AND UNIVERSITIES AND THE U. S. DEPT. OF AGRICULTURE. Working together on training for Government service: United States Department of Agriculture and land-grant colleges. U. S. D. A. Admin. Ser. 9, 12 p. June 1950. 1 P432A



## RESEARCH

10405 BERGH, H. Isotopes and their importance in agricultural research. (In Norwegian.) Landbrukstidende 56:569-571. July 19, 1950. 11 L236

10406 CARDON, P. V. Appraisal of research as an institutional function. (Sum.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:247-248. 1950. 4 As7 Agricultural.

10407 CLAUDER, H. Neue forschungsergebnisse? Landwirtschaftliche theorie und praxis in der Sowjetunion. Hannoversche Land- u. Forstwirt. Ztg. 103:354. Apr. 8, 1950. 18 H194

10408 CUTHBERTSON, D. P. British agricultural research stations. II. The Rowett Research Institute. Brit. Agr. B. 3(9):38-43. Spring 1950. 10 B776

10409 GREANEY, F. J. Bringing science to the farmer. Macdonald Col. J. 10(12):2, 4. Aug. 1950. 101 M144

The need for more complete collaboration of the scientist with the farmer.

Also in Agr. Inst. Rev. 5(5):17-18, 21. Sept. 1950. 7 Ag8

10410 HAWKINS, R. S. Grants-in-aid for research. Prog. Agr. Ariz. 2(3):2. Oct./Dec. 1950. 6 P9452

10411 IOWA. AGRICULTURAL EXPERIMENT STATION. Report on agricultural research, 1948/49. Ames, 1950. 336 p. 100 I09

10412 LARSSON, N. G. Research activities of Malmöhus Province Agricultural Society in the year 1949. (In Swedish.) Malmöhus Läns Hushåll. Sällsk. Kvrtlsskr. 1950:30-85. 11 M29

10413 MACEWAN, G. They search for farming knowledge; agricultural research at Manitoba's University takes in a wide variety of questions and ideas. Family Herald & Wk. Star 81(37):14, 16. Sept. 14, 1950. 7 F21

10414 MAINE. AGRICULTURAL EXPERIMENT STATION. Agricultural research in Maine; sixty-sixth annual report of progress, 1949/50. Maine. Agr. Expt. Sta. B. 483, 76 p. June 1950. 100 M28S

10415 MORSE, T. D. Agricultural Institute formed. Chemurg. Digest 9(11):10-11. Nov. 1950. 381 N213Na

10416 NATIONAL RESEARCH COUNCIL OF THE PHILIPPINES. Abstracts of the annual reports of the National Research Council of the Philippines for the period from March 1, 1941 to December 31, 1941; August 1, 1947 to February 27, 1948; February 28, 1948 to February 26, 1949; February 27, 1949 to February 24, 1950. Natl. Res. Council Philippines. B. 30, 184 p. July 1950. 330.9 N218B

10417 NEATBY, K. W. Organizing agricultural research. Agr. Inst. Rev. 5(5):29-31, 33, 35-36. Sept. 1950. 7 Ag8

10418 NEW YORK (CORNELL) AGRICULTURAL EXPERIMENT STATION. Sixty-second annual report, 1949. Ithaca, 1950? 215 p. 100 N48C

10419 NIESCHLAG. Seit 1876 im dienste der landwirtschaft; das Landwirtschaftliche Untersuchungsamt. Landwirtbl. Weser-Ems 36:735-736. Sept. 6, 1960. 18 L2345

10420 NORTHERN IRELAND. AGRICULTURAL RESEARCH INSTITUTE. Twenty-third annual report, 1949-1950. Hillsborough, 1950. 43 p. 103 N813

10421 PARISINOS, J. Investigational work of the Department of Agriculture. Countryman [Nicosia] 4(8): 10-11. Aug. 1950. 25 C83 Cyprus.

10422 PENNSYLVANIA. AGRICULTURAL EXPERIMENT STATION. Science for the farmer; the sixty-third annual report, 1949/50. Pa. Agr. Expt. Sta. B. 529, 60 p. July 1950. 100 P381

10423 PUERTO RICO. BUR. OF THE BUDGET. DIV. OF STATISTICS. Report on surveys, research projects and investigations of the Government of Puerto Rico fiscal year 1949-50. San Juan, 1950. 60 p. 330.9 P96 Includes agricultural research.

10424 RHODE ISLAND. AGRICULTURAL EXPERIMENT STATION. Research for the farmer; 62nd annual report. R. I. Agr. Expt. Sta. Contrib. 763, 38 p. June 1950. 100 R34S

10425 STRASHEIM, A. 'N paar gebruike van die spektro-chemiese analiese metode in landbounavorsing [A few uses of the spectrochemical analytical method in agricultural research]. Union So. Africa. Dept. van Landbou. Wetenskaplike Pam. 295, 13 p. 1949. 24 I084Sd

10426 TRULLINGER, R. W. Cooperation speeds work of experiment station. (Sum.) Assoc. Land-Grant Col. & Univ. Proc. (1949)63:118-119. 1950. 4 As7

10427 UGANDA. DEPT. OF AGRICULTURE. Annual report for the period 1st April, 1947-31st March, 1948. II. Experimental. Entebbe, 1950. 96 p. 24 U612

10428 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Important recent achievements of Department of Agriculture scientists. Rev. Washington, 1950. 21 p. (Doc. 6) 1.914 A2M85

10429 U. S. SOUTHERN REGIONAL RESEARCH LABORATORY. List of publications and patents of the Southern Regional Research Laboratory, January - June 1950. U. S. Bur. Agr. & Indus. Chem. AIC-188(sup.5), 17 p. Aug. 24, 1950. 1.932 A2Ag82

10430 U. S. WESTERN REGIONAL RESEARCH LABORATORY. List of publications and patents with abstracts, Western Regional Research Laboratory, Jan. 1-June 30, 1950. U. S. Agr. & Indus. Chem. AIC-218(sup.5), 8 p. 1950. 1.932 A2Ag82

10431 WELCH, F. J. Branch experiment stations extend farm research throughout State. Miss. Farm Res. [Miss. Sta.] 13(9):2-7. Sept. 1950. 100 M69M1

## STATISTICS

10432 HAMID, S. A. Improvement of agricultural statistics. (Abs.) Co-op. & Mktg. Rev. 4:251-252. July 1950. 280.28 C78243 Pakistan.

10433 STOWE, E. J. Answer book to Rural arithmetic, book one. London, Longmans, 1949. 16 p. 325 St7A

10434 STOWE, E. J. Rural arithmetic, book one. London, Longmans, 1949. 80 p. 325 St7



U. S. D. A. PUBLICATIONS

Includes publications of the United States Department of Agriculture received in the Library during the preceding month, except restricted publications and materials issued for internal administrative use rather than for public distribution.

Periodicals issued by the Department are listed in the November issue only; articles in them are indexed currently.

Domestic requests for publications in the various Department series will be filled free upon application to the Office of Information, United States Department of Agriculture, Washington 25, D. C., as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington 25, D. C.

Bureau publications may ordinarily be obtained free of charge from the issuing bureau as long as the supply lasts.

Foreign institutions, organizations and agencies which issue publications may obtain United States Department of Agriculture publications in exchange by writing to the United States Department of Agriculture Library, Washington 25, D. C.

Administrative Series

JOINT COMMITTEE ON TRAINING FOR GOVERNMENT SERV. OF THE ASSOCIATION OF LAND-GRANT COLLEGES AND UNIVERSITIES AND THE U. S. DEPT. OF AGRICULTURE. Working together on training for Government service, United States Department of Agriculture and land-grant colleges. U. S. D. A. Admin. Ser. 9,12 p. June 1950. 1 P432A

Agricultural Handbook

DAWSON, E. H., GILPIN, G. L., and REYNOLDS, H. Procedures for home freezing of vegetables, fruits, and prepared foods; classified notes on review of literature. U. S. D. A. Agr. Handb. 2,106 p. Ref. Sept. 1950. 1 Ag84Ah

Agricultural Information Bulletin

BOMHARD, M. L. Palm trees in the United States. U. S. D. A. Agr. Inform. B. 22,26 p. Ref. 1950. 1 Ag84Ab

DUCOFF, L. J. Migratory farm workers in 1949. U. S. D. A. Agr. Inform. B. 25,20 p. 1950. 1 Ag84Ab

GARLOCK, F. L., and others. The balance sheet and current financial trends of agriculture, 1950. U. S. D. A. Agr. Inform. B. 26,46 p. Oct. 1950. 1 Ag84Ab

A. S. Tostlebe, R. J. Burroughs, H. C. Larsen, H. T. Lingard, L. A. Jones, and M. E. Wallace, joint authors.

IRWIN, H. S., and MCDONALD, E. M. Inventory and hedging policies of commercial mixed-feed manufacturers in the United States. U. S. D. A. Agr. Inform. B. 24,45 p. Sept. 1950. 1 Ag84Ab

RETTIE, J. C., and INESON, F. A. Otsego Forest Products Cooperative Association of Cooperstown, New York; an evaluation. U. S. D. A. Agr. Inform. B. 17, 42 p. Sept. 1950. 1 Ag84Ab

U. S. BUR. OF AGRICULTURAL ECONOMICS. Rice preferences among household consumers. U. S. D. A. Agr. Inform. B. 15,101 p. July 1950. 1 Ag84Ab

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Teamwork in world agriculture. U. S. D. A. Agr. Inform. B. 21,21 p. 1950. 1 Ag84Ab

U. S. WESTERN LIVESTOCK MARKETING RESEARCH TECHNICAL COMMITTEE. Shifts in the trade in western slaughter livestock. U. S. D. A. Agr. Inform. B. 19, 67 p. Ref. 1950. 1 Ag84Ab

Circulars

CRANDALL, B. S. Cinchona root and collar rot in Peru and Bolivia. U. S. D. A. C. 855,16 p. Ref. July 1950. 1 Ag84C

FLETCHER, H. M., HANSEN, A. M., and DUENSING, M. E. Physical properties of plated fabrics knit of cotton, wool, viscose rayon, and nylon. U. S. D. A. C. 848,29 p. Aug. 1950. 1 Ag84C

FRANK, A. H. Artificial insemination in livestock breeding. U. S. D. A. C. 567,rev.,71 p. Ref. June 1950. 1 Ag84C

NIXON, R. W. Imported varieties of dates in the United States. U. S. D. A. C. 834,144 p. Ref. July 1950. 1 Ag84C

SANDERS, G. P., BURKEY, L. A., and LOCHRY, H. R. General procedure for manufacturing Swiss cheese. U. S. D. A. C. 851,18 p. Ref. Sept. 1950. 1 Ag84C

STICKNEY, F. S., BARNES, D. F., and SIMMONS, P. Date palm [Phoenix dactylifera] insects in the United States. U. S. D. A. C. 846,57 p. Ref. Sept. 1950. 1 Ag84C

YOUNG, H. C., and others. White-fringed beetles [Graphognathus leucoloma] and how to combat them. U. S. D. A. C. 850,15 p. Aug. 1950. 1 Ag84C  
B. A. App, J. B. Gill, and H. S. Hollingsworth, joint authors.

Farmers' Bulletins

BELL, E. H., and SCOVILLE, O. J. Part-time farming. U. S. D. A. Farmers' B. 1966, slightly rev., 18 p. Aug. 1950. 1 Ag84F

BOSWELL, V. R. Commercial growing and harvesting of sweetpotatoes. U. S. D. A. Farmers' B. 2020,38 p. Aug. 1950. 1 Ag84F  
Supersedes Farmers' Bulletin 999.

GRANT, F. M. Clean milk production. U. S. D. A. Farmers' B. 2017,23 p. Aug. 1950. 1 Ag84F  
Revision of and supersedes Farmers' Bulletin 602.

JOHNSON, E. W. Ornamental woody vines for the southern Great Plains. U. S. D. A. Farmers' B. 2015,22 p. July 1950. 1 Ag84F

MORSE, W. J., CARTTER, J. L., and HARTWIG, E. E. Soybean production for hay and beans. U. S. D. A. Farmers' B. 2024,15 p. Sept. 1950. 1 Ag84F  
Supersedes Farmers' Bulletin 1605.

WINSTON, J. R. Harvesting and handling citrus fruits in the Gulf States. U. S. D. A. Farmers' B. 1763, rev., 67 p. July 1950. 1 Ag84F

Home and Garden Bulletins

BEVERIDGE, E. Pots and pans for your kitchen. U. S. D. A. Home & Gard. B. 2,31 p. Aug. 1950. 1 Ag84Hg

Leaflets

FOWLER, M. E. Prevent tanbark deterioration. U. S. D. A. L. 286,7 p.-folder, Aug. 1950. 1 Ag84L  
Revision of U. S. D. A. AWI-82.

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Horn fly [Siphona irritans] control on beef cattle. U. S. D. A. L. 291,6 p. Aug. 1950. 1 Ag84L

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Sweetpotato recipes. U. S. D. A. L. 293,12 p. 1950. 1 Ag84L  
Formerly AIS-58.

Miscellaneous Publications

BENNETT, H. H. Our American land; the story of its abuse and its conservation. U. S. D. A. Misc. P. 596,rev.,32 p. June 1950. 1 Ag84M

DAYTON, W. A., comp. Glossary of botanical terms commonly used in range research. U. S. D. A. Misc. P. 110,rev.,41 p. June 1950. 1 Ag84M

MATTOON, W. R., and SHINN, E. H. Forestry for 4-H Clubs. U. S. D. A. Misc. P. 395, slightly rev., 50 p. May 1950. 1 Ag84M

U. S. BUR. OF AGRICULTURAL ECONOMICS. Consumption of food in the United States, 1909-48. U. S. D. A. Misc. P. 691(sup.),41 p. Sept. 1950. 1 Ag84M

Program Aid

DAVIS, L., and ESHBACH, C. E. Extension work in consumer food marketing education. U. S. D. A. PA-131,11 p. Sept. 1950. 1 Ag84Pro



SABROSKY, L. K. Here are some 4-H facts about getting more effective results from local leaders. U. S. D. A. PA-116,7 p. Ref. July 1950. 1 Ag84Pro

SLOPE-HETTINGER SOIL CONSERVATION DISTRICT, NORTH DAKOTA. Conservation farming in the Slope-Hettinger Soil Conservation District, North Dakota. U. S. D. A. PA-54,24 p. June 1950. 1 Ag84Pro

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Recipes for quantity service. U. S. D. A. PA-135,27 p. Sept. 1950. 1 Ag84Pro

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. School lunch recipes: cooking with dried whole eggs. U. S. D. A. PA-136,21 p. Oct. 1950. 1 Ag84Pro

Supersedes PA-58.

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. School lunch recipes using turkey. U. S. D. A. PA-108,27 p. Sept. 1950. 1 Ag84Pro

U. S. EXTENSION SERV. How to choose and use cabbage. U. S. D. A. PA-121,4 p.-folder. July 1950. 1 Ag84Pro

U. S. EXTENSION SERV. How to choose and use carrots. U. S. D. A. PA-122,4 p.-folder. July 1950. 1 Ag84Pro

U. S. EXTENSION SERV. How to choose and use onions. U. S. D. A. PA-125,4 p. July 1950. 1 Ag84Pro

U. S. EXTENSION SERV. How to choose and use potatoes. U. S. D. A. PA-120,4 p. July 1950. 1 Ag84Pro

U. S. EXTENSION SERV. How to choose and use snap beans. U. S. D. A. PA-123,4 p.-folder. July 1950. 1 Ag84Pro

U. S. EXTENSION SERV. How to choose and use tomatoes. U. S. D. A. PA-124,4 p.-folder. July 1950. 1 Ag84Pro

U. S. FEDERAL CROP INSURANCE CORPORATION. Opportunity knocks! U. S. D. A. PA-134,4 p.-folder. Aug. 1950. 1 Ag84Pro

U. S. PRODUCTION AND MARKETING ADMIN. Good planting seed will be a key factor in cotton production in 1951. U. S. D. A. PA-137,2 p. Oct. 1950. 1 Ag84Pro

U. S. PRODUCTION AND MARKETING ADMIN. Partners in conservation. U. S. D. A. PA-113,2 p. June 1950. 1 Ag84Pro

U. S. RURAL ELECTRIFICATION ADMIN. Electricity comes to rural America. U. S. D. A. PA-109,24 p. June 1950. 1 Ag84Pro

U. S. RURAL ELECTRIFICATION ADMIN. Rules of order; a simplified parliamentary procedure recommended for use in business meetings of REA co-ops. U. S. D. A. PA-118,16 p. 1950. 1 Ag84Pro

U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Grow more legume seed with pollinating insects. U. S. D. A. PA-126,2 p. June 1950. 1 Ag84Pro

U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Pep up your tired and run-down pastures. U. S. D. A. PA-127,2 p. July 1950. 1 Ag84Pro

#### Technical Bulletins

BAIRD, R. W., and POTTER, W. D. Rates and amounts of runoff for the Blacklands of Texas. U. S. D. A. Tech. B. 1022,23 p. July 1950. 1 Ag84Te

CHRISTENSEN, R. P., and MIGHELL, R. L. Competitive position of chicken and egg production in the United States. U. S. D. A. Tech. B. 1018,58 p. Ref. Aug. 1950. 1 Ag84Te

FIFIELD, C. C., and others. Milling and baking experiments with wheat varieties grown in western United States, 1936-45. U. S. D. A. Tech. B. 1014,35 p. Sept. 1950. 1 Ag84Te

C. E. Bode, H. C. Fellows, R. Weaver, J. F. Hayes, A. Christie, B. E. Rothgeb, T. F. Hartsing, and E. Hoffecker, joint authors.

NICKELS, C. B., PIERCE, W. C., and PINKNEY, C. C. Parasites of the pecan nut casebearer [Acrobasis caryae] in Texas. U. S. D. A. Tech. B. 1011,21 p. Aug. 1950. 1 Ag84Te

ROBINSON, W. O., WHETSTONE, R. R., and EDGINGTON, G. The occurrence of barium in soils and plants. U. S. D. A. Tech. B. 1013,36 p. Ref. Sept. 1950. 1 Ag84Te

#### Unnumbered Publications

U. S. BUR. OF AGRICULTURAL ECONOMICS. Crops and markets 27,141 p. 1950. 1 Ag84Wcm

U. S. DEPT. OF AGRICULTURE. Distribution of United States food, July 1, 1949 - June 30, 1950. Washington, 1950. 12 p. 1.90 A2D635

#### AGRICULTURAL AND INDUSTRIAL CHEMISTRY, BUREAU OF

KIME, J. A. The advancing utilization of Southern farm crops. New Orleans, U. S. South. Region. Res. Lab., 1950. 7 p. 1.9321 S2K57

Presented at meeting of the Texas Agricultural Workers Association, Galveston, Jan. 13-14, 1950.

KIME, J. A. Introducing new cotton products. New Orleans, U. S. South. Region. Res. Lab., 1950. 7 p. 1.9321 S2K57

Address before Cotton Research Congress, Dallas, July 27-28, 1950.

U. S. SOUTHERN REGIONAL RESEARCH LABORATORY. List of publications and patents of the Southern Regional Research Laboratory, January - June 1950. U. S. Bur. Agr. & Indus. Chem. AIC-188(sup.5), 17 p. Aug. 24, 1950. 1.932 A2Ag82

U. S. SOUTHERN REGIONAL RESEARCH LABORATORY. List of publications with abstracts on brining and pickling of cucumbers and other vegetables, September 1938 to June 1950. U. S. Bur. Agr. & Indus. Chem. AIC-183,rev., 15 p. Aug. 1950. 1.932 A2Ag82

U. S. WESTERN REGIONAL RESEARCH LABORATORY. List of publications and patents with abstracts, Western Regional Research Laboratory, Jan. 1-June 30, 1950. U. S. Agr. & Indus. Chem. AIC-218(sup.5), 8 p. 1950. 1.932 A2Ag82

#### AGRICULTURAL ECONOMICS, BUREAU OF

BREIMYER, H. F. The outlook for meat animals in 1951. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2B74

Statement at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.

BURTIS, E. L. The outlook for fats, oils, and oilseeds in 1950-51. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2B95

Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.

CAVIN, J. P. The outlook for cotton in 1950-51. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2C31

Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.

CLOUGH, M. The outlook for feed. Washington, U. S. Bur. Agr. Econ., 1950. 2 p. 1.941 A2C622

Statement at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.

CONOVER, A. G. The outlook for tobacco for 1951. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2C762

Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.

CRICKMAN, C. W. Management of livestock production in the United States. Washington, U. S. Bur. Agr. Econ., 1950. 7 p. 1.941 L6C86

Paper presented to informal conference with French livestock producers, Sept. 29, 1950, Washington, D. C.

DUCOFF, L. J. Outlook for farm manpower and farm wages. Washington, U. S. Bur. Agr. Econ., 1950. 7 p. 1.941 A2D85

Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.

EDLER, G. C. The grass and legume seed outlook for 1951. Washington, U. S. Bur. Agr. Econ., 1950. 10 p. 1.941 A22Ed5

Address at annual meeting of the American Society of Agronomy, Cincinnati, Nov. 3, 1950.

HEISIG, C. P. Outlook for farm costs for 1951. Washington, U. S. Bur. Agr. Econ., 1950. 10 p. 1.941 A2H36

Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.



- KARPOFF, E. The outlook for eggs and poultry in 1951. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2K14  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.
- KOFFSKY, N. M. Income of farm people from nonfarm sources. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2K82  
Address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.
- KRIESEL, H. C. The outlook for dairy products in 1951. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2K89  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.
- MUMFORD, H. W., JR. The outlook for vegetables in 1951. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2M91  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.
- PHILLIPS, R. A. Livestock marketing—organization, marketing channels, and transportation methods. Washington, U. S. Bur. Agr. Econ., 1950. 5 p. 1.941 A2P54  
Talk at informal conference with French livestock producers, Washington, D. C., Sept. 29, 1950.
- POST, R. E. The outlook for wheat in 1951-52. Washington, U. S. Bur. Agr. Econ., 1950. 2 p. 1.941 A2P845  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.
- PUBOLS, B. H. The outlook for fruits and tree nuts in 1951. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2P96  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.
- STATE-FEDERAL CROP AND LIVESTOCK REPORTING SERV. Minnesota agricultural statistics, 1948-1949. St. Paul, 1950? 47 p. 1 Ec7M
- STINE, O. C. Outlook for agriculture beyond 1950. Washington, U. S. Bur. Agr. Econ., 1950. 2 p. 1.941 H22St5  
Summary of address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 30, 1950.
- U. S. BUR. OF AGRICULTURAL ECONOMICS. Agricultural outlook charts, 1951. Washington, 1950. 100 p. 1.9 Ec7AgrCh
- U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle feeding situation, November 1, 1950. Washington, 1950. 2 p. 1.9 Ec742Cat
- U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle on feed—Illinois, Iowa, Nebraska, October 1, 1950. Washington, 1950. 2 p. 1.9 Ec742Caf
- U. S. BUR. OF AGRICULTURAL ECONOMICS. Citrus fruits; production, farm disposition, value and utilization of sales, crop seasons 1947-48 to 1949-50, by E. O. Schlotzhauer and A. M. Caron. Washington, 1950. 11 p. 1.941 H8C49
- U. S. BUR. OF AGRICULTURAL ECONOMICS. The farm cost situation. U. S. Bur. Agr. Econ. FCS-9, 25 p. Oct. 1950. 1.941 F8F222
- U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm real estate market activity in twelve western counties, 1941-48, by O. Fuqua. Washington, 1950. 53 p. 1.941 L8F224
- U. S. BUR. OF AGRICULTURAL ECONOMICS. Georgia 1949 commercial broiler production highest in history of State. Athens, 1950. 2 p. 1.941 H2C73
- U. S. BUR. OF AGRICULTURAL ECONOMICS. Income size distributions for Illinois farm-operator families; a study of problems encountered in estimating the distribution of farms by income level, by R. F. Daly. Urbana, U. Ill. Col. Agr., 1949. 60 p. 281.023 Un3
- U. S. BUR. OF AGRICULTURAL ECONOMICS. Lamb feeding situation, October 1, 1950. Washington, 1950. 2 p. 1.9 Ec742Lam
- U. S. BUR. OF AGRICULTURAL ECONOMICS. Montana honey production, 1950. Helena, 1950. 2 p. 1.941 H8H757
- U. S. BUR. OF AGRICULTURAL ECONOMICS. 1950 cranberry prospects. Portland, Oreg., 1950. 1 p. 1.941 H8C85
- U. S. BUR. OF AGRICULTURAL ECONOMICS. Statistics relative to American cheese production in New York State. Albany, 1950. 17 p. 1.941 H2C41  
New York State Department of Agriculture and Markets cooperating.
- U. S. BUR. OF AGRICULTURAL ECONOMICS. Turkey crop [Texas], 1950. Austin, 1950. 2 p. 1.945 H8T845
- WALL, N. J. Savings and debt position of farmers. Washington, U. S. Bur. Agr. Econ., 1950. 8 p. 1.941 F2W15  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.
- WELLS, O. V. Significant aspects of the outlook. Washington, U. S. Bur. Agr. Econ., 1950. 6 p. 1.941 F3W46  
Summary of comments at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.

## AGRICULTURAL RESEARCH ADMINISTRATION

- U. S. AGRICULTURAL RESEARCH ADMIN. Marketing margins and efficiency; highlights from the Marketing Research Workshop, July 9 to 19, 1950, Purdue University. Washington, 1950. 13 p. 1.98 M342

## ANIMAL INDUSTRY, BUREAU OF

- MARSDEN, S. J., and MOORE, S. A. An outline for selecting breeding turkeys. U. S. Bur. Anim. Indus. A.H.D. 113, rev., 8 p. Sept. 1950. 1.9 An52Ah
- NATIONAL PLANS CONFERENCE. Report of conference, June 13-16, 1950, in Chicago, Illinois. Washington? U. S. Bur. Anim. Indus. Anim. Husb. Div., 1950. 66 p. 1.962 A3R295
- U. S. BUR. OF ANIMAL INDUSTRY. Chickens in NPIP hatchery supply flocks and their distribution by States and varieties 1941-42, 1946-47, 1948-49 and 1949-50. U. S. Bur. Anim. Indus. A. H. D. 69, rev., 6 p. Oct. 1950. 1.9 An52AH
- U. S. BUR. OF ANIMAL INDUSTRY. Directory of the Bureau of Animal Industry. Rev. Washington, 1950. 71 p. 1.917 A2D631
- U. S. BUR. OF ANIMAL INDUSTRY. Pullorum antigen producers and types of antigens. U. S. Bur. Anim. Indus. A. H. D. 136, 2 p. Oct. 1950. 1.9 An52Ah
- U. S. BUR. OF ANIMAL INDUSTRY. ANIMAL HUSBANDRY DIV. Table for determining the duration of the 300 day trapnest year. U. S. Bur. Anim. Indus. A.H.D. 134, 2 p. Aug. 1950. 1.9 An52Ah

## BUDGET AND FINANCE, OFFICE OF

- U. S. DEPT. OF AGRICULTURE. OFF. OF BUDGET AND FINANCE. Digest of agricultural legislation enacted during 81st Congress, 2nd session. Washington, 1950. 33 p. 1.911 A2D56

## COMMODITY CREDIT CORPORATION

- U. S. COMMODITY CREDIT CORPORATION. Deliveries to export programs, as invoiced, 1941 through 1949 by commodity, destination and 6-month periods. Washington? 1950. 121 p. 1.957 D37
- U. S. COMMODITY CREDIT CORPORATION. 1950 crop peanut price support program. Washington, 1950. 16 p. 1.956 A2C889

## COMMODITY EXCHANGE AUTHORITY

- U. S. COMMODITY EXCHANGE AUTHORITY. Speculation in soybeans. Washington, 1950. 10 p. 1.945 Sp3

## DAIRY INDUSTRY, BUREAU OF

- LEIGHTON, A. Commercial ice-cream formulas. U. S. Bur. Dairy Indus. BDIM-Inf-11, slightly rev., 23 p. Oct. 1950. 1.973 D4B34  
Slightly revised by D. H. Williams.



MOORE, L. A. A relationship between total digestible nutrients (T.D.N.) and estimated net energy values (E.N.E.), and a possible method of estimating net energy values with producing dairy cows. U. S. Bur. Dairy Indus. BDI-Inf-114, 4 p. Nov. 1950. 1.973 D4B34

REED, O. E. Breeding better dairy cattle. U. S. Bur. Dairy Indus. BDIM-Inf-109, 4 p. Sept. 1950. 1.973 D4B34

SWETT, W. W., and others. Control of mastitis in the Bureau of Dairy Industry herd by treating the infected quarters with penicillin. U. S. Bur. Dairy Indus. BDI-Inf-110, 4 p. Oct. 1950. 1.973 D4B34

L. A. Burkey, C. R. Buckner, P. C. Underwood, C. A. Matthews, and M. H. Fohrman, joint authors.

WEBB, B. H. Processes for preserving fluid and concentrated milks, and their potentialities. U. S. Bur. Dairy Indus. BDI-Inf-111, 2 p. Oct. 1950. 1.973 D4B34

Abstract of paper presented before the Laboratory Section, 43d annual convention, Milk Industry Foundation, Oct. 1950.

#### ENTOMOLOGY AND PLANT QUARANTINE, BUREAU OF

GILMORE, J. U. The suckfly [*Dicyphus minimus*] on tobacco, suggestions for control. U. S. Bur. Ent. & Plant Quar. EC-15, 7 p.-folder. Aug. 1950. 1.967 A2Ec1

PEDERSEN, M. W., TODD, F. E., and LIEBERMAN, F. V. A portable field cage [to confine or exclude bees in pollination experiments]. U. S. Bur. Ent. & Plant Quar. ET-289, 9 p. Aug. 1950. 1.9 En83Et

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Bureau of Entomology and Plant Quarantine articles published in 1949. U. S. Bur. Ent. & Plant Quar. E-808, 54 p. Oct. 1950. 1.9 En83

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Corn earworm (*Heliothis armigera* (Hbn.)). U. S. D. A. Picture Sheet 11, rev., 2 p. 1950. 1 En86P

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. DDT, another soil poison for subterranean termite control. Washington? 1950. 2 p. 1.967 F4D33

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Fall armyworm (*Laphygma frugiperda* (A. and S.)). U. S. D. A. Picture Sheet 12, rev., 2 p. Aug. 1950. 1 En86P

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Nurseries eligible until September 30, 1951 for interstate movement of rust-resistant *Berberis*, *Mahonia*, and *Mahoberberis* plants under Black Stem Rust Quarantine No. 38. Washington, 1950. 11 p. 1.967 P3N93

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Summary of State nursery-stock shipping requirements and plant quarantines and regulations affecting interstate shipments. Illinois. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 578-14, 3 p. Oct. 2, 1950. 1.9 F73

Similar summaries for other States.

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Tomato fruitworm (*Heliothis armigera* (Hbn.)). U. S. D. A. Picture Sheet 13, rev., 2 p. June 1950. 1 En86P

#### EXPERIMENT STATIONS, OFFICE OF

PLANK, H. K. Insecticidal properties of some plants growing in Puerto Rico. P. R. Fed. Expt. Sta. (Mayaguez) B. 49, 17 p. Ref. Sept. 1950 1 Ex65

PLANK, H. K. Studies of factors influencing attack and control of the bamboo powder-post beetle [*Dinoderus minutus*]. P. R. Fed. Expt. Sta. (Mayaguez) B. 48, 39 p. Ref. Aug. 1950. 1 Ex65

U. S. OFF. OF EXPERIMENT STATIONS. List of agricultural experiment stations in the United States. Washington, 1950. 2 p. 1.9 Ex6Li

U. S. OFF. OF EXPERIMENT STATIONS. List of land-grant colleges in the United States. Washington, 1950. 2 p. 1.9 Ex6La

WINTERS, H. F. Cinchona propagation. P. R. Fed. Expt. Sta. (Mayaguez) B. 47, 26 p. Ref. Aug. 1950. 1 Ex65

#### EXTENSION SERVICE

BRIDGES, B. Significance of youth participation in program building. Washington, U. S. Ext. Serv., 1950. 5 p. 1.913 O2Si2

Presented to State Club Leaders at National 4-H Club Camp, Washington, D. C., June 19, 1950.

DAVIS, L. The use of visual aids in consumer education in the marketing program. Washington, U. S. Ext. Serv., 1950. 9 p. 1.913 V2Us2

Talk at the American Home Economics Association meeting, Boston, July 14, 1950.

GALLUP, G. Getting more people to follow better nutrition. Washington, U. S. Ext. Serv., 1950. 7 p. 1.913 A2G13

Presented at Western Regional Nutrition Conference, Flagstaff, Ariz., July 1950.

INTER-REGIONAL LIVESTOCK PRODUCTION AND MARKETING CONFERENCE. Report of conference, College Park and Beltsville, Maryland, June 12-15, 1950. Washington, U. S. Ext. Serv., 1950. 27 p. 1.913 C3L752

U. S. EXTENSION SERV. Aids for 4-H achievement observance, by G. L. Warren. Washington, 1950. 30 p. 1.913 F3Ac4

U. S. EXTENSION SERV. Better utilization of Weather Bureau information for cotton. Washington, 1950. 11 p. 1.913 A2B46

U. S. EXTENSION SERV. Challenges of the changing community and town-country churches, by E. J. Niederfrank. Washington, 1950. 19 p. 1.913 A2C354

U. S. EXTENSION SERV. Dairy Month and the cow, by R. K. Bliss. Washington? 1950. 4 p. 1.913 A2B61

U. S. EXTENSION SERV. An educational program on food and people. Washington, 1950. 3 p. 1.913 A2Ed84

U. S. EXTENSION SERV. Extension Conference on Children and Youth, December 8-13, 1950: a progress report. Washington, 1950. 2 p. 1.913 C3C43

U. S. EXTENSION SERV. Extension work in horticulture. Washington, 1950. 9 p. 1.913 A2Ex845

U. S. EXTENSION SERV. Fact sheet about making United Nations flags at home. Washington, 1950. 4 p. 1.913 A2F114

U. S. EXTENSION SERV. List of State extension directors. Washington, 1950. 2 p. 1.9 Ex892Ls

U. S. EXTENSION SERV. Preliminary information regarding the program of the Cooperative Extension Service to encourage the home making of United Nations flags. Washington, 1950. 6 p. 1.913 A2P912

U. S. EXTENSION SERV. Suggestions for making an all-applied United Nations flag (omitting use of screen-printed world design). Washington, 1950. 3 p. 1.913 A2Su363

U. S. EXTENSION SERV. U.N. flag-making ideas. Washington, 1950. 3 p. 1.913 A2Un3

U. S. EXTENSION SERV. Using discussion "66" or "Buzz" discussion methods. Washington, 1950. 4 p. 1.913 A2Us4

VAUGHAN, L. M. Scope and objectives of public policy work as applied to the Northeast. Washington, U. S. Ext. Serv., 1950. 7 p. 1.913 E2V46

Summary of remarks before Work Conference on Public Policy Problems, Petersham, Mass., Sept. 11, 1950.

VISSER, P. The challenge that the use of radio and television presents to youth leaders. Washington, U. S. Ext. Serv., 1950. 6 p. 1.913 A2C353

Presented at National 4-H Club Camp, Washington, D. C., June 16, 1950.

WILSON, M. L. The meaning of the United Nations flag. Washington, U. S. Ext. Serv., 1950. 3 p. 1.913 A2W69

Talk given as part of the program for observance of United Nations Day, Patio, U. S. Department of Agriculture, Oct. 24, 1950.

#### FARM CREDIT ADMINISTRATION

ARNOLD, C. R. The production credit system: how cooperative? Washington, U. S. Farm Credit Admin., 1950. 8 p. 1.955 P2Ar6

Talk at American Institute of Cooperation, Stillwater, Okla., Aug. 24, 1950.



BYRNE, R. J. Coordinating transportation improves marketing and purchasing for Minnesota cooperatives. U. S. Farm Credit Admin. B. 57,64 p. May 1950. 166.2 B87

GOLDSBOROUGH, G. H. Coordinating the marketing of Florida citrus fruit. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. Misc. Rpt. 143,69 p. Ref. Oct. 1950. 166.3 M68

HALL, T. E., and others. Where and how much cash grain storage for Oklahoma farmers. U. S. Farm Credit Admin. B. 58,48 p. May 1950. 166.2 B87

A. L. Larson, H. S. Whitney, and C. H. Meyer, joint authors. Oklahoma Agricultural and Mechanical College, cooperating.

MCKAY, A. W. Members knowledge and attitudes, Calavo Growers of California. U. S. Farm Credit Admin. C. C 137,15 p. June 1950. 166.2 C4923

MATHIS, A. G., and HIRSCH, D. E. Butter pricing by Iowa creameries. U. S. Farm Credit Admin. C. C-136,38 p. May 1950. 166.2 C4923

U. S. FARM CREDIT ADMIN. Farm mortgages recorded, 1949. Washington, 1950. 23 p. 1.955 A2F228

#### FOREIGN AGRICULTURAL RELATIONS, OFFICE OF

ANDREWS, S. Food and the restoration of peace. Washington, U. S. Foreign Agr. Relat., 1950. 5 p. 1.943 An2

Summary of remarks before meeting of the Nebraska-Iowa District Kiwanis Club, Ames, Sept. 12, 1950.

BAEHR, H. A., BELL, E. J., and CAMP, A. M. Market potentialities for wheat and wheat flour in the Far East. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 50,51 p. June 1950. 1.943 F763

DAY, G. H. Outlook for imports of United States dairy products in Venezuela. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 53,42 p. July 1950. 1.943 F763

MOORE, R. E. Our challenge—technical cooperation. Washington, U. S. Off. Foreign Agr. Relat., 1950. 7 p. 1.943 M78

Paper delivered before the Agricultural Experiment Station Section and the Home Economics Research Section, conference of the Association of Land-Grant Colleges and Universities, Washington, D. C., Nov. 13, 1950.

NORRIS, P. K. Cotton production and trade in Mozambique. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 54,7 p. Oct. 1950. 1.943 F763

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. The agriculture of Burma. Preliminary report. Washington, 1950. 48 p. 1.943 Ag836

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. The agriculture of Indonesia. Preliminary report. Washington, 1950. 84 p. Ref. 1.943 Ag835

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Fact sheet on coffee, production and consumption. Washington, 1950. 8 p. 1.943 F1184

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Foreign agricultural outlook charts, 1951. Washington, 1950. 83 p. 1.943 F7623

#### FOREST SERVICE

BRYAN, M. B. Timber production and commodity drain from Florida's forests, 1948. U. S. Forest Serv. Soeast. Forest Expt. Sta. Forest Survey Release 34,35 p. Aug. 1950. 1.9622 A3F76

CRUIKSHANK, J. W. Pulpwood production in the South, 1949. U. S. Forest Serv. Soeast. Forest Expt. Sta. Forest Survey Release 35,26 p. Sept. 1950. 1.9622 A3F76

CURTIS, J. D. Stocking of logged ponderosa pine land in central Idaho. U. S. Forest Serv. Intermountain Forest & Range Expt. Sta. Res. Paper 23,15 p. Aug. 1950. 1.9622 I2R31

FOBES, E. W. Improved alinement of logging roads reduces hauling costs. U. S. Forest Serv. Forest Prod. Lab. Impr. Harvesting Methods, Equip. Survey Notes. Rpt. R1637-40,4 p. June 1950. 1.9 F761R

HOUGH, A. F. Weed killers may be useful in reforesting old burns. U. S. Forest Serv. Noeast. Forest Expt. Sta. Noeast. Res. Note 1,4 p. Aug. 1950. 1.9622 N2N82

JOHNSON, W. M., and HULL, A. C., JR. How to reseed parks and openings in the ponderosa pine zone in Colorado. U. S. Forest Serv. Rocky Mountain Forest & Range Expt. Sta. Paper 3,14 p. June 1950. 1.9622 R2St2

MCARDLE, R. E. What is past is prologue. Washington, U. S. Forest Serv., 1950. 11 p. 1.962 A2M12

Presented at meeting of the American Forestry Association and the Canadian Forestry Association, Eagle River, Wis., Oct. 9, 1950.

MORAVETS, F. L. Commodity drain on commercial forests in Oregon and Washington, 1948. U. S. Forest Serv. Pacific Northwest. Forest & Range Expt. Sta. Forest Survey Rpt. 103,19 p. June 1950. 1.9622 P2F76

RIETZ, R. C. The problem: have you been experiencing wood fabrication troubles in the spring when the factory switches from winter heating to opening of windows? U. S. Forest Serv. Forest Prod. Lab. News & Views This Kiln Drying Business. Rpt. D1769-2,1 p. Apr. 1950. 1.9 F761R

RIETZ, R. C. The problem: how are kiln samples prepared for use in determining moisture content? U. S. Forest Serv. Forest Prod. Lab. News & Views This Kiln Drying Business. Rpt. D1769-3,1 p. June 1950. 1.9 F761R

SCHNUR, G. L., and LANE, R. D. Aids for computing tree volumes in Illinois. U. S. Forest Serv. Cent. States Forest Expt. Sta. Tech. Paper 115,26 p. Aug. 1950. 1.9622 C3T222

SOMES, H. A., and MOORHEAD, G. R. Prescribed burning does not reduce yield from oak-pine [*Quercus-Pinus*] stands of southern New Jersey. U. S. Forest Serv. Noeast. Forest Expt. Sta. Paper 36,19 p. Aug. 1950. 1.9622 N2St22

STEVENSON, E. W. Reseeding tarweed [*Madia glomerata*] infested ranges. U. S. Forest Serv. Pacific Northwest Forest & Range Expt. Sta. Res. Note 68,5 p. Sept. 1, 1950. 1.9 F7629Fr

U. S. FOREST SERV. National forest areas, June 30, 1950. Washington, 1950. 16 p. 1 F765

U. S. FOREST SERV. Norris-Doxey farm woodland management project. Washington, 1950. 1 p. 1.962 C5N79

U. S. FOREST SERV. Ranger 'rithmetic for seventh grade teachers. Washington, 1950. 12 p. 1 F76Rar

U. S. FOREST SERV. Timber cut on national forests by regions under sales and land exchanges. Rev. Washington, 1950. 2 p. 1.962 A2T485

U. S. FOREST SERV. EASTERN REGION. George Washington National Forest, Virginia-West Virginia. Washington, 1950. 23 p. 1 F7622G

U. S. FOREST SERV. NORTHERN ROCKY MOUNTAIN FOREST & RANGE EXPERIMENT STATION. A selected bibliography of range management literature published in 1949, by G. A. Harris. Missoula, Mont., 1950. 24 p. (v. 1, No. 4) 1.9622 N3Se4

U. S. FOREST SERV. SOUTHEASTERN FOREST EXPERIMENT STATION. Farm woodlot management in the Southern Piedmont; two-year progress report, by T. A. McClay. Asheville, 1950? 4 p. 1.9622 S4F223

U. S. FOREST SERV. TROPICAL FOREST EXPERIMENT STATION. Publications, Oct. 1939/Jan. 1950. Rio Piedras? 1950. 10 p. 1.9622 T2P96

#### HUMAN NUTRITION AND HOME ECONOMICS, BUREAU OF

BREW, M. L. Situation and outlook for consumer goods; clothing and textiles. Washington, U. S. Bur. Human Nutr. & Home Econ., 1950. 6 p. 1.982 E2B75

Talk at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.

REAGAN, B. B., PENNOCK, J. L., and EASSON, L. Current farm family living. Washington, U. S. Bur. Human Nutr. & Home Econ., 1950. 21 p. 1.914 R2R11

Talks at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.

REYNOLDS, L. W. Situation and outlook for consumer goods; housing. Washington, U. S. Bur. Human Nutr. & Home Econ., 1950. 9 p. 1.913 I2R33

Talk at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.



U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. A child's poncho. Washington, 1950. 2 p. 1.982 A2C432

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Distribution of Bureau of Human Nutrition and Home Economics printed publications. Washington, 1950. 16 p. 1.982 A2D63

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Food consumption trends in Birmingham, Ala., 1935, 1946, & 1948. U. S. Bur. Human Nutr. & Home Econ. Spec. Rpt. 1, 19 p. Oct. 1950. 1.982 A2F7382

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Nutritive content of city diets. U. S. Bur. Human Nutr. & Home Econ. Spec. Rpt. 2, 23 p. Oct. 1950. 1.982 A2F7382

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Recipes for baked products for those who cannot use (A) wheat, milk, or eggs (B) wheat or eggs (C) wheat or milk (D) wheat. Washington, 1950. 8 p. 1.982 F2R24

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Rural family living charts. Washington, 1950. 92 p. 1.9 Ec7Ofa

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Summary of informational materials completed July 1, 1949 to June 30, 1950. Washington, 1950. 11 p. 1.982 A2Su6

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Zip-sleeve raincoat. Washington, 1950. 2 p. 1.982 A2Z6

WALSH, M. C. Situation and outlook for consumer goods; food. Washington, U. S. Bur. Human Nutr. and Home Econ., 1950. 5 p. 1.982 E2W16

Talk at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 1, 1950.

WEISS, G. S. Farm family spending. Washington, U. S. Bur. Human Nutr. & Home Econ., 1950. 5 p. 1.982 A2W43

Address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.

#### INFORMATION, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Abridged list of Federal laws applicable to agriculture. Washington, 1950. 21 p. (Doc. 2) 1.914 A2Ab82

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Defense controls and farm supplies, by R. S. Trigg and K. M. Gapen. Washington, 1950. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Important recent achievements of Department of Agriculture scientists. Rev. Washington, 1950. 21 p. (Doc. 6) 1.914 A2M85

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. The 1951 outlook for farmers, by O. C. Stine, L. H. Simerl, J. C. Bottum, and K. M. Gapen. Washington, 1950. 4 p. 1.941 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Nutrition quiz, by Z. F. Rodenwold and M. Speece. Washington, 1950. 5 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Origin, structure, and functions of the U. S. Department of Agriculture. Rev. Washington, 1950. 25 p. (Doc. 1) 1.914 A2Or4

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. The school lunch program in 1950, by L. Trainer and K. M. Gapen. Washington, 1950. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Sharing farm know-how, by members of young farmer Technical Assistance Teams from Marshall Plan countries with D. Reynolds. Washington, 1950. 6 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Soybeans for hay and oil, by M. C. Weiss and K. M. Gapen. Washington, 1950. 1.914 R2R11

#### LIBRARY

U. S. DEPT. OF AGRICULTURE. LIBRARY. Available bibliographies and lists. U. S. D. A. Libr., Libr. List 25, rev., 2 p. Sept. 19, 1950. 1.916 L612

WATROUS, R. C., comp. Cacao; a bibliography on the plant and its culture and primary processing of the bean. U. S. D. A. Libr., Libr. List 53, 49 p. Oct. 1950. 1.916 L612

#### PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING, BUREAU OF

BARGER, W. R. Altitude tests with flowers; effect of simulated air cargo flights. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 224, 17 p. May 8, 1950. 1.9 P772Ht

BARGER, W. R. Performance test with overhead fan cars. Grapes from Delano, Calif., to New York City, October 1949. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 231, 10 p. May 15, 1950. 1.9 P772Ht

BEESELEY, T. E., and others. Soil survey, Otoe County, Nebraska. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Soil Survey. 1940(6), 87 p. Aug. 1950. 1 So32F

W. J. Moran, V. W. Filley, C. E. Pilcher, and C. R. Buzzard, joint authors.

DILLER, J. D. Reduction of decay hazard in basementless houses on wet sites. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Div. Forest Path. Forest Path. Spec. Release 30, rev., 4 p. Aug. 1950. 1.965 F3F75

LEIGHTY, W. J., and WYATT, C. E. Soil survey, Marshall County, Kentucky. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Soil Survey. 1938(29), 109 p. Ref. Sept. 1950. 1 So32F

LUTZ, J. M., and others. Refrigerator car preheating tests comparing alcohol, end bunker charcoal and underslung charcoal heaters, Grand Forks, North Dakota, February and March, 1950. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 230, 13 p. Sept. 5, 1950. 1.9 P772Ht

V. Reubelt, H. Findlen, and A. D. Edgar, joint authors.

POULSON, E. N., and STROMBERG, L. K. Soil survey, the Duncan area, Arizona, New Mexico. U. S. Bur. Plant Indus. Soils & Agr. Engin. Soil Survey, 1941(1), 48 p. Sept. 1950. 1 So32F

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Bentgrass [Agrostis] for lawns, by M. H. Ferguson and I. Forbes, Jr. Beltsville, Md., 1950. 2 p. 1.965 F2B44

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Grazing and related range management studies on the Southern Plains Experimental Range for the winter grazing season of 1948-49; fifteenth semiannual progress report, by D. A. Savage and E. H. McIlvain. Woodward, Okla., 1950. 7 p. 1.965 A2Su62

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Grazing, feeding, and other range improvement studies on the Southern Plains Experimental Range, sixteenth semi-annual progress report, by E. H. McIlvain, D. A. Savage, L. E. Johnson, and D. E. Howell. Woodward, Okla., 1950? 20 p. 1.965 A2Su62

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Methods of analysis used in the Rubidoux Laboratory, Riverside, California, by L. V. Wilcox and J. T. Hatcher. Ed. 6, rev. Riverside? Calif., 1950. 67 p. 1.965 S2M56

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Peat and muck in agriculture, by M. S. Anderson, S. F. Blake, and A. L. Mehring. Beltsville, 1950. 17 p. 1.965 A2P32

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. DIV. OF FORAGE CROPS AND DISEASES. Report of acres applied for certification in 1950. n.p., 1950. 34 p. 1.965 F2R292

#### PRODUCTION AND MARKETING ADMINISTRATION

RICHARDS, P. Dairying and the defense effort. Washington, U. S. Prod. & Mktg. Admin., 1950. 6 p. 1.956 A2R39

Talk before the New England Milk Producers' Association, Boston, Oct. 31, 1950.

RICHARDS, P. A look ahead on butter. Washington, U. S. Prod. & Mktg. Admin., 1950. 9 p. 1.956 A2R39

Remarks before the American Butter Institute, Chicago, Nov. 9, 1950.



- TERMOHLEN, W. D. The poultry grading and inspection program of the United States Department of Agriculture. Washington, U. S. Prod. & Mktg. Admin., 1950. 17 p. 1.944 D2T27
- Statement before convention of the U. S. Livestock Sanitary Association, Phoenix, Nov. 2, 1950.
- TRIGG, R. S. What lies ahead in the defense effort. Washington, U. S. Prod. & Mktg. Admin., 1950. 9 p. 1.956 A2T73
- Talk at annual convention of the Milk Industry Foundation, Atlantic City, Oct. 17, 1950.
- U. S. PRODUCTION AND MARKETING ADMIN. Cash costs of farm storage in marketing soybeans, by D. B. Agnew and C. H. Keirstead. Washington, 1950. 62 p. 1.956 F26C26
- U. S. PRODUCTION AND MARKETING ADMIN. Check list of U. S. standards issued by the Fruit and Vegetable Branch (other than for processed products). Washington, 1950. 3 p. 1.9 Ec74
- U. S. PRODUCTION AND MARKETING ADMIN. Compilation of statistical material concerning the proposed marketing agreement and order for the Springfield, Missouri, marketing area. Washington, 1950. 64 p. 1.956 D14C738
- U. S. PRODUCTION AND MARKETING ADMIN. Cotton classing services available to farmers. Washington, 1950. 3 p. 1.956 C82C8223
- U. S. PRODUCTION AND MARKETING ADMIN. Dairy products plentiful in June. Chicago, 1950. 5 p. 1.956 A2D1422
- U. S. PRODUCTION AND MARKETING ADMIN. Digest of decisions of the Secretary of Agriculture under the Perishable Agricultural Commodities Act, v. 2, by W. L. Evans. Washington, 1950. 72 p. 1.9 Ec7Ped
- U. S. PRODUCTION AND MARKETING ADMIN. Digest of poultry and domestic rabbit grading and inspection regulations, standards, and grades, by M. W. Buster and W. E. Hauver, Jr. Slightly rev. Washington, 1950. 8 p. 1.956 P86D56
- U. S. PRODUCTION AND MARKETING ADMIN. Estimated grade and staple length of upland cotton ginned in the United States prior to December 1, 1959. Washington, 1950. 2 p. 1.9422 C8G752
- U. S. PRODUCTION AND MARKETING ADMIN. Facts about egg production. Chicago, 1950? 4 p. 1.956 A2F1129
- U. S. PRODUCTION AND MARKETING ADMIN. Handbook for warehousemen operating under uniform grain storage agreement. Atlanta, 1950. 29 p. 1.956 A2H19
- U. S. PRODUCTION AND MARKETING ADMIN. Handbook of official grain standards of the United States. Rev. Washington, 1950. 102 p. 1 M346Ha
- U. S. PRODUCTION AND MARKETING ADMIN. How fresh fruit and vegetable distributors can get more out of their materials-handling equipment, by J. F. Herlick, Jr., M. R. Kercho, S. W. Burt, and F. J. Miller. Washington, 1950. 100 p. 1.956 M343H83
- U. S. PRODUCTION AND MARKETING ADMIN. Inner packing materials for egg cases; the results of studies conducted in 1948-49. Washington, 1950. 40 p. 1.956 P86In6
- U. S. PRODUCTION AND MARKETING ADMIN. Irish potatoes shipped to States during fiscal year July 1, 1949 to June 30, 1950. Washington, 1950. 1 p. 1.956 A2Ir42
- U. S. PRODUCTION AND MARKETING ADMIN. It's sweet potato time! New York, 1950. 2 p. 1.956 A2It6
- U. S. PRODUCTION AND MARKETING ADMIN. List of stockyards posted under the provisions of the Packers and Stockyards Act. Washington, 1950. 31 p. 1.9 Ag89L
- U. S. PRODUCTION AND MARKETING ADMIN. Making fermented cucumber pickles in barrel lots; sweet, sour and dill. San Francisco? 1950. 8 p. 1.956 F73M28
- U. S. PRODUCTION AND MARKETING ADMIN. Market outlets for cotton in some of the principal cotton fabrics, by W. J. Martin and J. H. McLure. Washington, 1950. 113 p. 1.956 C82M344
- U. S. PRODUCTION AND MARKETING ADMIN. Marketing study of the oil content of soybeans as related to production areas and climate, by N. Pahigian. Washington, 1950. 31 p. Ref. 1.956 F26M34
- U. S. PRODUCTION AND MARKETING ADMIN. Measuring bread-baking quality of wheat. Washington, 1950? 26 p. 1.956 G76M463
- U. S. PRODUCTION AND MARKETING ADMIN. The Philadelphia milk supply. Washington, 1950. 100 p. 1.956 D14P53
- U. S. PRODUCTION AND MARKETING ADMIN. Quantities of section 416 commodities delivered to States during fiscal year July 1, 1949 to June 30, 1950. Washington, 1950. 1 p. 1.956 A2Q22
- U. S. PRODUCTION AND MARKETING ADMIN. A report of market news broadcasting in the Northeast. New York, 1950. 7 p. 1.956 A2F227
- U. S. PRODUCTION AND MARKETING ADMIN. Resume of regulations and controls governing domestic transportation and warehousing during World War II and affecting programs of the U. S. Department of Agriculture. Washington, 1950. 10 p. 1.956 T68R31
- U. S. PRODUCTION AND MARKETING ADMIN. Rice, Rexoro, extra fancy: average wholesale price per 100 pounds, milled, New Orleans, 1933-34 to date. Washington, 1950. 2 p. 1.956 G76R363
- U. S. PRODUCTION AND MARKETING ADMIN. Rules and regulations under the Federal Seed Act. Issued March 1940, reprinted with amendments, July 1950. U. S. Prod. & Mktg. Admin. Serv. & Regulat. Announc. 156, 51 p. July 1950. 1 M34S
- U. S. PRODUCTION AND MARKETING ADMIN. Schedule of selling prices for 1950 program shorn domestic wools. Washington, 1950. 7 p. 1.956 L75Sch2
- U. S. PRODUCTION AND MARKETING ADMIN. Tentative crop grades for unsorted Havana seed tobacco of type 52. Washington, 1950. 13 p. 1.956 T55T26
- U. S. PRODUCTION AND MARKETING ADMIN. There's no ceiling on appetite appeal so long as onions are plentiful and low-priced. New York, 1950. 2 p. 1.956 A2T342
- U. S. PRODUCTION AND MARKETING ADMIN. Tobacco inspection, market news, and demonstration services. Rev. Washington, 1950. 16 p. 1.9 Ec714Tim
- U. S. PRODUCTION AND MARKETING ADMIN. U. S. standards for bunched beets. Washington, 1950. 3 p. 1.9 Ec74Bd
- U. S. PRODUCTION AND MARKETING ADMIN. United States standards for grades of canned grapefruit and orange for salad. Washington, 1950. 11 p. 1.956 A2Un3239
- U. S. PRODUCTION AND MARKETING ADMIN. United States standards for grades of frozen corn-on-the-cob. Washington, 1950. 7 p. 1.956 A2Un3238
- U. S. PRODUCTION AND MARKETING ADMIN. United States standards for grades of processed fruits and vegetables. Washington, 1950. 3 p. 1.9422 Fr5Un3
- U. S. PRODUCTION AND MARKETING ADMIN. The wholesale markets for fruits, vegetables, poultry, and eggs at Tulsa, Okla., by G. E. Turner, A. B. Lowstuter, F. L. Faber, H. Rector, E. Wilson, Jr., and C. E. Walker. Washington, 1950. 78 p. 1.956 M343W624
- U. S. PRODUCTION AND MARKETING ADMIN. Wholesale poultry and egg markets in 30 cities, by N. G. Paulhus. Washington, 1950. 160 p. 1.956 M343W623
- U. S. PRODUCTION AND MARKETING ADMIN. The wholesale produce market at Norfolk, Va., by J. S. Larson, C. J. Otten, S. D. Clark, F. L. Faber, A. B. Lowstuter, and C. J. Brasington, Jr. Washington, 1950. 64 p. 1.956 M343W622
- U. S. PRODUCTION AND MARKETING ADMIN. World trends in supply, distribution, and prices of naval stores, 1934-49, by H. B. Wagner. Washington, 1950. 95 p. 1.956 T55W69
- U. S. PRODUCTION AND MARKETING ADMIN. COTTON BR. Color measurements of cotton; preliminary report on application of new automatic cotton colorimeter, by D. Nickerson. Washington, 1950. 13 p. 1.956 C82C712
- U. S. PRODUCTION AND MARKETING ADMIN. COTTON BR. Data relating to practices and costs in the primary marketing of cotton, by A. J. Fortenberry. Washington, 1950. 4 p. 1.956 C82D26
- U. S. PRODUCTION AND MARKETING ADMIN. COTTON BR. Evaluation of cotton ginning costs and quality, High Plains area of Texas, 1946 through 1948, by Z. M. Looney, R. A. Montgomery, and W. E. Franklin, Jr. Washington, 1950. 41 p. 1.956 C82Ev1



U. S. PRODUCTION AND MARKETING ADMIN.  
COTTON BR. A modified technique for making cotton fiber maturity tests, by F. Carpenter and R. L. Lee, Jr. Washington, 1950. 17 p. 1.956 C82M72

U. S. PRODUCTION AND MARKETING ADMIN.  
DAIRY BR. Sanitation program for insect control. Washington, 1950? 4 p. 1.956 D14Sa5

U. S. PRODUCTION AND MARKETING ADMIN.  
FATS AND OILS BR. Distribution of marketing and processing costs of cottonseed-oil mills, 1947-48. Preliminary report, by D. Jackson and C. C. Spillsbury. Washington, 1950. 89 p. 1.956 F26D63

U. S. PRODUCTION AND MARKETING ADMIN.  
FRUIT AND VEGETABLE BR. List of manufacturers of fruit and vegetable hampers and baskets. Rev. Washington, 1950. 20 p. 1.942 F2L69

U. S. PRODUCTION AND MARKETING ADMIN.  
MARKETING AND FACILITIES RESEARCH BR. A comparison of two-wheel hand trucks and clamp-type industrial trucks for transporting uncompressed bales of cotton from blocked area to dinky press, by C. D. Bolt and A. W. Steinberg. Washington, 1950. 7 p. 1.956 M343C732

U. S. PRODUCTION AND MARKETING ADMIN.  
SUGAR BR. The marketing of feed molasses, by L. J. Kutish. Washington, 1950. 32 p. 1.956 SuM342

#### RURAL ELECTRIFICATION ADMINISTRATION

HAGGARD, G. W. Present status of the REA. Washington, U. S. Rur. Electrification Admin., 1950. 6 p. 1.933 H12

Talk at NRECA Regional Conferences, 1950.

MCCURLEY, J. B. The Rural Electrification Administration program in the Missouri Basin. Washington, U. S. Rur. Electrification Admin., 1950. 12 p. 1.933 M13  
Talk at Minot, N. Dak., Oct. 5, 1950.

U. S. RURAL ELECTRIFICATION ADMIN.  
Assuring member participation. U. S. Rur. Electrification Admin. Suggested Co-op. Electrification Training Outline 107, 20 p. 1950? 1.933 Su392

U. S. RURAL ELECTRIFICATION ADMIN.  
1949 annual statistical report. Washington, 1950. 123 p. 1.933 F49

U. S. RURAL ELECTRIFICATION ADMIN.  
Printed publications available. Washington, 1950. 3 p. 1.933 R888

U. S. RURAL ELECTRIFICATION ADMIN.  
Report on the Henry phase converter. Washington, 1950. 2 p. 1.933 R2922

WICKARD, C. R. Farmers and their government. Washington, U. S. Rur. Electrification Admin., 1950. 6 p. 1.91 A2W63

Talk at Fellowship Banquet at meeting of the North Carolina State Grange, Lumberton, Oct. 23, 1950.

WICKARD, C. R. The right of farmers to supply their own power needs. Washington, U. S. Rur. Electrification Admin., 1950. 6 p. 1.91 A2W63

Talk at ceremonies dedicating a steam generating plant of the Corn Belt Power Cooperative, Humboldt, Iowa, Oct. 10, 1950.

WICKARD, C. R. A year of the REA telephone program. Washington, U. S. Rur. Electrification Admin., 1950. 5 p. 1.91 A2W63

Talk before Independent Telephone Association meeting in Chicago, Oct. 11, 1950.

#### SECRETARY, OFFICE OF

BRANNAN, C. F. Agriculture and national defense. Washington, U. S. D. A. Off. Sec., 1950. 14 p. 1.91 A2B73

Talk at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 30, 1950.

BRANNAN, C. F. Agriculture's role—in war or peace. Washington, U. S. D. A. Off. Sec., 1950. 17 p. 1.91 A2B73

Address at Iowa State College, Ames, Oct. 19, 1950.

BRANNAN, C. F. The elements of leadership. Washington, U. S. D. A. Off. Sec., 1950. 12 p. 1.91 A2B73

Talk at convention of the National Grange, Minneapolis, Nov. 17, 1950.

BRANNAN, C. F. Food in the nation's mobilization. Washington, U. S. D. A. Off. Sec., 1950. 12 p. 1.91 A2B73

Talk before National Association of Food Chains, Cincinnati, Oct. 17, 1950.

BRANNAN, C. F. Hope: an American export. Washington, U. S. D. A. Off. Sec., 1950. 12 p. 1.91 A2B73

Talk at meeting of Association of Land-Grant Colleges and Universities, Washington, D. C., Nov. 16, 1950.

BRANNAN, C. F. Youth's new frontier. Washington, U. S. D. A. Off. Sec., 1950. 9 p. 1.91 A2B73

Talk at meeting of Future Farmers of America, Kansas City, Mo., Oct. 10, 1950.

MCCORMICK, C. J. Agriculture today and in the great design. Washington, U. S. D. A. Off. Sec., 1950. 9 p. 1.91 A2M132

Talk at George Washington Masonic Temple, Alexandria, Va., Sept. 29, 1950.

MCCORMICK, C. J. Foresight from hindsight. Washington, U. S. D. A. Off. Sec., 1950. 12 p. 1.91 A2M132

Talk at meeting of Southwest Indiana Implement Dealers, Vincennes, Ind., Oct. 17, 1950.

MCCORMICK, C. J. Gearing up. Washington, U. S. D. A. Off. Sec., 1950. 15 p. 1.91 A2M132

Talk at meeting of South Dakota Farmers Union, Mitchell, S. Dak., Oct. 5, 1950.

MCCORMICK, C. J. The U. S. and agriculture. Washington, U. S. D. A. Off. Sec., 1950. 14 p. 1.91 A2M132

Talk at National Catholic Rural Life Conference, Belleville, Ill., Oct. 16, 1950.

#### SOIL CONSERVATION SERVICE

BENNETT, H. H. Everybody shares soil and water conservation awards. Washington, U. S. Soil Conserv. Serv., 1950. 11 p. 1.96 Ad62

Address, Denver Post-KLZ Soil Conservation Recognition Banquet, Julesburg, Colo., Sept. 25, 1950.

BENNETT, H. H. Looking ahead in conservation. Washington, U. S. Soil Conserv. Serv., 1950. 6 p. 1.96 Ad62

Address, annual meeting, Friends of the Land, New York, Sept. 28-29, 1950.

BENNETT, H. H. Soil and wildlife. Washington, U. S. Soil Conserv. Serv., 1950. 9 p. 1.96 Ad62

Address, Annual Convention Southeastern Association of Game and Fish Commissioners Conference, Richmond, Oct. 16, 1950.

BENNETT, H. H. Soil conservation districts' important responsibilities. Washington, U. S. Soil Conserv. Serv., 1950. 12 p. 1.96 Ad62

Address at meeting Northeast Area Soil Conservation District Supervisors and Directors, Philadelphia, Oct. 5, 1950.

BENNETT, H. H. The watershed approach to soil and water conservation. Washington, U. S. Soil Conserv. Serv., 1950. 11 p. 1.96 Ad62

Address, Watershed Development Conference, Charleston, W. Va., Oct. 19, 1950.

BENNETT, H. H. Worldwide influence of American soil conservation program. Washington, U. S. Soil Conserv. Serv., 1950. 12 p. 1.96 Ad62

Address at annual meeting, Soil Conservation Society of America, Detroit, Oct. 27, 1950.

BROWN, C. B. Sediment steals water storage. Washington, U. S. Soil Conserv. Serv., 1950. 8 p. 1.96 Ad6Br

Paper presented at meeting of the Soil Conservation Society of America, Detroit, Oct. 28, 1950.

DAWSON, R. C. The use of woody materials on agricultural land: a review. U. S. Soil Conserv. Serv. SCS-TP-98, 14 p. Ref. Aug. 1950. 1.96 Ad6Tp

STALLINGS, J. H. Erosion of topsoil reduces productivity. U. S. Soil Conserv. Serv. SCS-TP-98, 31 p. Ref. Aug. 1950. 1.96 Ad6Tp

U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range lands in the Molokai Soil Conservation District, by N. K. Carlson and W. E. Sykes. Portland, Oreg., 1950. 6 p. 1.9609 R16222

U. S. SOIL CONSERVATION SERV. SOUTHWEST REGION. Annual report, 1949/50. Albuquerque, 1950. 20 p. 1.9608 An7

#### SOLICITOR, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF THE SOLICITOR. A general description of the "Defense Production Act of 1950." Washington, 1950. 10 p. 1.918 G284



STATE AGRICULTURAL EXPERIMENT STATIONPUBLICATIONS

January 1951

Includes State Agricultural Experiment Station publications received in the library during the preceding month.

Publications issued by the State Agricultural Experiment Stations are not available from the U. S. Department of Agriculture but are often available from the publishing experiment station.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Alabama Agricultural Experiment Station, Auburn

WARE, L. M., and JOHNSON, W. A. Value of irrigation with different fertility treatments for vegetable crops. Ala. Agr. Expt. Sta. B. 276,69 p. Ref. June 1950. 100 AL1S

STURKIE, D. G. Experiments with oil crops. Ala. Agr. Expt. Sta. B. 277,28 p. Sept.1950. 100 AL1S

LYLE, J. A. Description of two important oat diseases in Alabama. Ala. Agr. Expt. Sta. Prog. Rpt. Ser. 11(sup.),2 p. Sept.1950. 100 AL1M

ALABAMA AGRICULTURAL EXPERIMENT STATION. Agricultural opportunities and problems of the South from the research point of view, by M. J. Funchess. Auburn,1950. 11 p. (Spec. L.) 100 AL1S

Arizona Agricultural Experiment Station, Tucson

SELTZER, R. E. Desert grapefruit goes to market. Ariz. Agr. Expt. Sta. B. 230,61 p. July 1950. 100 Ar4

JAMES, M. S., and others. Physical land conditions in the Fredonia Soil Conservation District, Arizona. Ariz. Agr. Expt. Sta. B. 231,19 p. July 1950. 100 Ar4

R. D. Headley, H. V. Smith, and W. G. Harper, joint authors.

California Agricultural Experiment Station, Berkeley

VOORHIES, E. C., and RUDD, R. W. Sheep and wool situation in California, 1950. Calif. Agr. Expt. Sta. C. 399,50 p. Oct.1950. 100 C12S

CALIFORNIA agriculture 4(9),16 p.;(10),16 p. Sept.-Oct.1950. 100 C12Cag

Connecticut (State) Agricultural Experiment Station, New Haven

FRONTIERS of plant science 3(1),8 p. Sept. 1950. 100 F92

Delaware Agricultural Experiment Station, Newark

LUCAS, W. C., SEEGER, K. C., and TOMHAVE, A. E. Production factors of six varieties of turkeys. Del. Agr. Expt. Sta. B. 279,19 p. Sept.1949. 100 D37S

PHILLIPS, C. E., and BAKER, T. A. The value of pasture for milk production. Del. Agr. Expt. Sta. B. 286,11 p. June 1950. 100 D37S

LUCAS, W. C., TOMHAVE, A. E., and SEEGER, K. C. Processed peanut hulls compared with regular peanut hulls and sawdust as litter for broiler production. Del. Agr. Expt. Sta. Pam. 35,2 p. Jan.1950. 100 D37H

Florida Agricultural Experiment Station, Gainesville

COBIN, M. The Lychee in Florida. Fla. Agr. Expt. Sta. B. 471,24 p. Ref. Aug.1950. 100 F66S

BROOKE, D. L., and SPURLOCK, A. H. Labor and material requirements, costs of production and returns on Florida Irish potatoes. Fla. Agr. Expt. Sta. B. 472,29 p. Sept.1950. 100 F66S

CREVASSE, J. M., JR. Ground covers for Florida gardens. Fla. Agr. Expt. Sta. B. 473,60 p. Sept.1950. 100 F66S

GLASSCOCK, R. S., CUNHA, T. J., and PEARSON, A. M. Observations on the value of sweet blue lupine seed meal as a feed for beef cattle. Fla. Agr. Expt. Sta. C. S-8,6 p. May 1950. 100 F66Ci

GLASSCOCK, R. S., CUNHA, T. J., and PEARSON, A. M. Preliminary observations on the comparative value of roughages for maintenance and growth of beef cattle. Fla. Agr. Expt. Sta. C. S-9,5 p. May 1950. 100 F66Ci

CUNHA, T. J., and others. Preliminary observations on the feeding value of citrus and cane molasses for swine. Fla. Agr. Expt. Sta. C. S-10,6 p. May 1950. 100 F66Ci

A. M. Pearson, R. S. Glasscock, D. M. Buschman and S. J. Folks, joint authors.

CUNHA, T. J., and others. Observations on cull tangerines for swine feeding. Fla. Agr. Expt. Sta. C. S-11,7 p. May 1950. 100 F66Ci

G. A. LaMar, C. B. Shawver, A. M. Pearson, S. J. Folks and R. S. Glasscock, joint authors.

GLASSCOCK, R. S., and others. Preliminary observations on citrus seed meal as a protein supplement for fattening steers and swine. Fla. Agr. Expt. Sta. C. S-12,7 p. May 1950. 100 F66Ci

T. J. Cunha, A. M. Pearson, J. E. Pace and D. M. Buschman, joint authors.

CUNHA, T. J., and others. Observations on the animal protein factor and vitamin B12 for swine feeding. Fla. Agr. Expt. Sta. C. S-13,6 p. May 1950. 100 F66Ci

J. E. Burnside, H. M. Edwards, G. B. Meadows, R. H. Benson, A. M. Pearson and R. S. Glasscock, joint authors.

HODGES, E. M., and JONES, D. W. Torpedo grass [*Panicum repens*]. Fla. Agr. Expt. Sta. C. S-14, 4 p. June 1950. 100 F66Ci

KELSHEIMER, E. G. Control of mole-cricket [Gryllotalpa]. Fla. Agr. Expt. Sta. C. S-15,7 p. June 1950. 100 F66Ci

CARVER, W. A., and HULL, F. H. Dixie runner peanuts. Fla. Agr. Expt. Sta. C. S-16,3 p. June 1950. 100 F66Ci

PARRIS, G. K. Control of mice in watermelon fields. Fla. Agr. Expt. Sta. C. S-17,4 p. July 1950. 100 F66Ci

CHAPMAN, W. H. Southland oats—a new variety. Fla. Agr. Expt. Sta. C. S-18,8 p. Sept.1950. 100 F66Ci

Georgia Agricultural Experiment Station, Experiment

HARRINGTON, B. J. Pimiento peppers; production practices and costs, Piedmont, Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 12,21 p. Jan.1950. 100 G29M

DUPREE, M., and BECKHAM, C. M. Progress report—control of cowpea curculio [*Chalcodermus aeneus*]. Ga. Agr. Expt. Sta. Mimeog. Ser. 16,7 p. Feb.20,1950. 100 G29M

HARRINGTON, B. J. Tobacco; production practices and costs, Lower Coastal Plain, Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 17,15 p. Mar.1950. 100 G29M

HARRINGTON, B. J. Pimiento peppers; production practices and costs, Coastal Plain, Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 18,20 p. Mar.1950. 100 G29M

FULLILOVE, W. T., and ELROD, J. C. Cotton production practices and costs, Limestone Valley, Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 19,36 p. Mar.1950. 100 G29M

HARRINGTON, B. J. Wheat production practices and costs, Piedmont, Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 20,18 p. Mar.1950. 100 G29M

FORD, K. E., and PENNY, N. M. Marketing okra and other vegetables, Grady County, Georgia, 1949. Ga. Agr. Expt. Sta. Mimeog. Ser. 21,30 p. May 1950. 100 G29M

GLASGOW, R. B., and FULLILOVE, W. T. Cotton production practices and cost in the Piedmont area of Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 25, 49 p. Aug.1950. 100 G29M

U. S. Bureau of Agricultural Economics cooperating.



FULLILOVE, W. T., and ELROD, J. C. Cotton production practices and cost in the Upper Coastal Plain of Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 32, 34 p. Oct. 1950. 100 G29M

BAILEY, J. E. Williams variety of sorghum cane recommended for North Georgia. Ga. Agr. Expt. Sta. Press B. 620, 1 p. Feb. 7, 1950. 100 G29P

GEORGIA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Plans for cooperative home demonstration work with farm families, Georgia, 1950. Athens? 1950? various pagings. 275.29 G29PL

RESEARCH news 2(5), 2 p. Sept./Oct. 1950. 100 G29R

#### Hawaii Agricultural Experiment Station, Honolulu

ELLIOTT, R. Prospects for marketing Hawaiian papaya products in the United States. Hawaii. Agr. Expt. Sta. Agr. Econ. B. 1, 94 p. Ref. June 1950. 280.9 H312

PALAFIX, A. L. Poultry management studies. II. Wire-floor laying pens vs. individual cages for laying chickens. Hawaii. Agr. Expt. Sta. C. 32, 11 p. Sept. 1950. 100 H313

FENTON, F., and others. Home freezing in Hawaii. Hawaii. Agr. Expt. Sta. C. 33, 62 p. Sept. 1950. 100 H313

G. Bryant, C. D. Miller and K. Orr, joint authors.

ROSENBERG, M. M., and MURATA, K. Poultry marketing studies. I. Factors in the preparation of fryers and roasters for market. Hawaii. Agr. Expt. Sta. C. 34, 12 p. Oct. 1950. 100 H313

AKAMINE, E. K., and SAKAMOTO, H. I. Preventing the fading of Vanda (Joaquim) flowers with brominated charcoal. Hawaii. Agr. Expt. Sta. Prog. Note 61, 6 p. Sept. 1950. 100 H313P

#### Idaho Agricultural Experiment Station, Moscow

MANIS, H. C., and PORTMAN, R. W. Idaho recommendations for insect control. Idaho. Agr. Expt. Sta. B. 279, 71 p. June 1950. 100 Id1

#### Indiana Agricultural Experiment Station, Lafayette

BURKHOLDER, C. L., and KLACKLE, R. L. Planning and planting the apple orchard. Ind. Agr. Expt. Sta. C. 350, 19 p. June 1950. 100 In2P

ULLSTRUP, A. J. Diseases of Dent corn in Indiana. Ind. Agr. Expt. Sta. C. 359, 27 p. June 1950. 100 In2P

INDIANA. AGRICULTURAL EXPERIMENT STATION. Inspection of commercial feeding stuffs. Ind. Agr. Expt. Sta. C. 360, 64 p. Apr. 1950. 100 In2P

INDIANA. AGRICULTURAL EXPERIMENT STATION. Inspection of commercial fertilizers. Ind. Agr. Expt. Sta. C. 361, 48 p. Apr. 1950. 100 In2P

INDIANA. AGRICULTURAL EXPERIMENT STATION. Indiana crops and livestock. Ind. Agr. Expt. Sta. Ind. Crops & Livestock 300, 4 p. Sept. 1, 1950. 252.25 Ag8

#### Iowa Agricultural Experiment Station, Ames

IOWA. AGRICULTURAL EXPERIMENT STATION. Report on agricultural research, 1948/49. Ames, 1950. 336 p. 100 Io9

#### Kansas Agricultural Experiment Station, Manhattan

HODGES, J. A., and others. Farm management summary and analysis; the 1949 report by type of farming area. Kans. Agr. Expt. Sta. Agr. Econ. Rpt. 43, 90 p. 1950? 281.9 K132

R. J. Doll, E. Castle, C. F. Bortfeld, D. A. Knight, J. H. Coolidge and H. C. Love, joint authors.

BARBER, E. L. Meeting weather risks in Kansas wheat farming. Kans. Agr. Expt. Sta. Agr. Econ. Rpt. 44, 30 p. Sept. 1950. 281.9 K132

GEAR, R. D. A study of the cooperative type of business organization and its setting in our private enterprise economy. Kans. Agr. Expt. Sta. Agr. Econ. Rpt. 45, 20 p. July 1950. 281.9 K132

WILBUR, D. A., BRYSON, H. R., and PAINTER, R. H. Southwestern corn borer [*Diatraea grandiosella*] in Kansas. Kans. Agr. Expt. Sta. B. 339, 46 p. Ref. May 1950. 100 K13S

Revision of Bulletin 317.

WEBER, A. D., AICHER, L. C., and KESSLER, F. B. Beef cattle feeding and grazing investigations for 1947-48. Kans. Agr. Expt. Sta. C. 260, 15 p. Sept. 1950. 100 K13S

WEBER, A. D., AICHER, L. C., and KESSLER, F. B. Beef cattle feeding and grazing investigations for 1948-49. Kans. Agr. Expt. Sta. C. 261, 15 p. Sept. 1950. 100 K13S

BUSHNELL, L. D., and ERWIN, L. E. Newcastle disease. Kans. Agr. Expt. Sta. C. 263, 21 p. Ref. Sept. 1950. 100 K13S

Circular 243 revised.

FARRELL, F. D. Kansas rural institutions: VI. Holcomb Consolidated School. Kans. Agr. Expt. Sta. C. 266, 44 p. Aug. 1950. 100 K13S

CLAPP, A. L. Cooperative wheat fertility tests, 1950. Kans. Agr. Expt. Sta. Rpt. Prog. Ser. C. E. 24, 6 p. 1950? 57.9 K13

CLAPP, A. L. Cooperative oat variety tests, 1950. Kans. Agr. Expt. Sta. Rpt. Prog. Ser. C. E. 25, 4 p. 1950? 100 K13Ro

#### Kentucky Agricultural Experiment Station, Lexington

HANSEN, M. F., and others. Effects of a pure infection of the tapeworm *Moniezia expansa* on lambs. Ky. Agr. Expt. Sta. B. 556, 11 p. Aug. 1950. 100 K41

A. C. Todd, G. W. Kelley, and M. Cawein, joint authors.

KARRAKER, P. E., BORTHER, C. E., and FERGUS, E. N. Nitrogen balance in lysimeters as affected by growing Kentucky bluegrass [*Pratensis*] and certain legumes separately and together. Ky. Agr. Expt. Sta. B. 557, 16 p. Sept. 1950. 100 K41

DIMOCK, W. W. Fertility and infertility of stallions. Ky. Agr. Expt. Sta. C. 68, 18 p. Ref. Sept. 1950. 100 K41

#### Louisiana Agricultural Experiment Station, University Station, Baton Rouge

KIMBROUGH, W. D., SMITH, C. E., and HANCHEY, R. H. Camellias for the yard. La. Agr. Expt. Sta. B. 391, rev., 39 p. June 1950. 100 L93

ALEXANDER, W. H. Milk marketing in the north Louisiana Upland Cotton Area. La. Agr. Expt. Sta. B. 443, 28 p. June 1950. 100 L93

MONTGOMERY, J. P., and BRYAN, S. L. Agricultural statistics for Louisiana, 1909-1949. La. Agr. Expt. Sta. B. 444, 72 p. June 1950. 100 L93

MINOR, C. O. Form class volume tables for use in southern pine pulpwood timber estimating. La. Agr. Expt. Sta. B. 445, 39 p. June 1950. 100 L93

#### Maine Agricultural Experiment Station, Orono

SHANDS, W. A., and others. Control of aphids on potatoes with DDT when used with fungicides. Maine. Agr. Expt. Sta. B. 480, 41 p. May 1950. 100 M28S

G. W. Simpson, P. M. Lombard, R. M. Cobb, and P. H. Lung, joint authors.

MAINE. AGRICULTURAL EXPERIMENT STATION. Agricultural research in Maine; sixty-sixth annual report of progress, 1949/50. Maine. Agr. Expt. Sta. B. 483, 76 p. June 1950. 100 M28S

TREVETT, M. F. A guide for the use of chemical weed killers. Maine. Agr. Expt. Sta. Mimeog. Rpt. 6, 12 p. Jan. 1950. 100 M28M

TREVETT, M. F. Use of fertilizer for Maine blueberries. Maine. Agr. Expt. Sta. Mimeog. Rpt. 9, 11 p. Feb. 1950. 100 M28M



Maryland Agricultural Experiment Station, College Park

- POFFENBERGER, P. R., and BOUMA, J. C. Farm insurance in Maryland. Md. Agr. Expt. Sta. B. A-54, 31 p. Sept. 1950. 100 M36S
- GWIN, J. M. The Delmarva broiler industry. Md. Agr. Expt. Sta. B. A-57, 35 p. Oct. 1950. 100 M36S
- BURNS, D. J., and BEAL, G. M. Farm practices affecting seasonal milk production in the Baltimore milkshed. Md. Agr. Expt. Sta. B. A-58, 16 p. Oct. 1950. 100 M36S
- WALKER, W. P., and POFFENBERGER, P. R. Local rural road problems in Maryland. Md. Agr. Expt. Sta. B. A-59, 23 p. Oct. 1950. 100 M36S

Massachusetts Agricultural Experiment Station, Amherst

- STAPLETON, H. N. Meteorological observations for March 1950. Mass. Agr. Expt. Sta. Met. Ser. B. 735, 4 p. Mar. 1950. 100 M38H

Minnesota Agricultural Experiment Station, University Farm, St. Paul

- KELLY, R. A., and others. Relationship of price and quality of potatoes at retail level. Minn. Agr. Expt. Sta. B. 406, 28 p. June 1950. 100 M66
- H. O. Werner, F. A. Krantz, P. Hemphill, and M. E. Cravens, joint authors.

Mississippi Agricultural Experiment Station, State College

- WOOTEN, O. B., JR., SMITH, W. R., and MEEK, W. E. Cultivator spray rig for farm tractor. Miss. Agr. Expt. Sta. B. 472, 19 p. Apr. 1950. 100 M69
- GRISSOM, P. H. Soil fertility practices for cotton production in the Yazoo-Mississippi Delta. Miss. Agr. Expt. Sta. B. 473, 23 p. May 1950. 100 M69
- BENNETT, H. W. Pastures for Mississippi. Miss. Agr. Expt. Sta. C. 151, 16 p. Feb. 1950. 100 M69
- LEVECK, H., and others. Results of winter grazing tests, 1949-50. Miss. Agr. Expt. Sta. C. 155, 16 p. Aug. 1950. 100 M69
- L. H. Horn, B. L. Arnold, S. P. Crockett, R. H. Means, L. Walton, and C. L. Blount, joint authors.
- HORN, L. H., JR. Whole cottonseed vs. cottonseed meal for wintering beef cattle. Miss. Agr. Expt. Sta. Inform. Sheet 451, 1 p. Aug. 1950. 100 M69In
- MISSISSIPPI farm research 13(9), 8 p. Sept. 1950. 100 M69M1

Missouri Agricultural Experiment Station, Columbia

- TALBERT, T. J. Propagation of fruit trees by budding and grafting. Mo. Agr. Expt. Sta. C. 343, 16 p. Mar. 1950. 100 M693
- FEASTER, C. V. Wabash soybeans for Missouri. Mo. Agr. Expt. Sta. C. 344, 6 p. Mar. 1950. 100 M693
- GRAHAM, E. R. Testing Missouri soils. Mo. Agr. Expt. Sta. C. 345, 23 p. Ref. Mar. 1950. 100 M693
- TALBERT, T. J. Grape growing in Missouri. Mo. Agr. Expt. Sta. C. 346, 28 p. Mar. 1950. 100 M693
- THURSTON, S. K., JR. The operating experience of 24 local cooperative exchanges in Missouri, 1929-1947. Mo. Agr. Expt. Sta. Res. B. 453, 40 p. Feb. 1950. 100 M693
- MERILAN, C. P., and others. The reliability of various diagnostic tests and the efficiency of certain therapeutic measures in control of mastitis. Mo. Agr. Expt. Sta. Res. B. 454, 26 p. Ref. Feb. 1950. 100 M693
- H. A. Herman, J. E. Edmondson, K. L. Tallman, and O. S. Crisler, joint authors.
- ROARK, D. B., and HERMAN, H. A. Physiological and histological phenomena of the bovine estrual cycle with special reference to vaginal-cervical secretions. Mo. Agr. Expt. Sta. Res. B. 455, 70 p. Ref. Feb. 1950. 100 M693
- HEPPLE, L. M., and BRIGHT, M. L. Social changes in Shelby County, Missouri. Mo. Agr. Expt. Sta. Res. B. 456, 35 p. Mar. 1950. 100 M693

Nebraska Agricultural Experiment Station, Lincoln

- SHAFER, N. E., FURRER, J. D., and LOMAX, J. W. Aircraft in agriculture. Nebr. Agr. Expt. Sta. C. 88, 12 p. Ref. Sept. 1950. 100 N27
- MAXWELL, E. G. Twelve broadleaf trees for Nebraska. Nebr. Agr. Expt. Sta. E. C. 1727, 16 p. Sept. 1950. 275.29 N272Ex
- DREIER, A. F., and EHLERS, P. L. Nebraska outstate varietal tests of fall-sown small grains, 1950; winter wheat, winter barley, rye. Nebr. Agr. Expt. Sta. Outstate Testing C. 9, 14 p. Aug. 1950. 100 N27O
- LOWREY, G. W., and others. Commercial fertilizer results with winter wheat and rye, 1950. Nebr. Agr. Expt. Sta. Outstate Testing C. 10, 19 p. Aug. 1950. 100 N27O
- R. A. Olson, A. F. Dreier, and P. L. Ehlers, joint authors.

New Hampshire Agricultural Experiment Station, Durham

- DAVIS, H. A., and KRAMER, R. E. Inspection of commercial feedstuffs. N. H. Agr. Expt. Sta. B. 381, 29 p. July 1950. 100 N45
- PRINCE, F. S., and BLOOD, P. T. Pasture management investigations. N. H. Agr. Expt. Sta. C. 81, 15 p. June 1950. 100 N45
- COLOVOS, N. F. The Animal Metabolism Laboratory at the University of New Hampshire. N. H. Agr. Expt. Sta. C. 82, 6 p. Aug. 1950. 100 N45

New Mexico Agricultural Experiment Station, State College

- PINGREY, H. B. Farm income possibilities in the Pecos Valley, New Mexico. N. Mex. Agr. Expt. Sta. Press B. 1042, 34 p. Sept. 1950. 100 N465

New York (Cornell) Agricultural Experiment Station, Ithaca

- HUNTER, M. B., BRIANT, A. M., and PERSONIUS, C. J. Cake quality and batter structure. N. Y. (Cornell) Agr. Expt. Sta. B. 860, 59 p. Ref. Aug. 1950. 100 N48C
- SCOTT, R. C. An analysis of frozen food purchases in three New York areas. N. Y. (Cornell) Agr. Expt. Sta. B. 861, 31 p. Sept. 1950. 100 N48C
- HAMPTON, R. N., MURPHY, R. G., and HOFF, P. R. Potato irrigation; costs and practices in Suffolk County, New York, 1946. N. Y. (Cornell) Agr. Expt. Sta. B. 862, 56 p. Sept. 1950. 100 N48C
- SEARLS, E. N. Marketing of dressed chickens by New York poultrymen, 1946-47. N. Y. (Cornell) Agr. Expt. Sta. B. 863, 40 p. Sept. 1950. 100 N48C
- LUKE, H. A. Utilization and pricing of milk under the New York Milk Marketing Order. N. Y. (Cornell) Agr. Expt. Sta. B. 866, 124 p. Sept. 1950. 100 N48C
- BOYNTON, D., and others. Responses of McIntosh apple orchards to varying nitrogen fertilization and weather. N. Y. (Cornell) Agr. Expt. Sta. Mem. 290, 35 p. Aug. 1950. 100 N48C
- A. B. Burrell, R. M. Smock, O. C. Compton, J. C. Cain, and J. H. Beattie, joint authors.
- KENNEDY, W. K. Simulated grazing treatments; effect on yield, botanical composition, and chemical composition of a permanent pasture. N. Y. (Cornell) Agr. Expt. Sta. Mem. 295, 47 p. Ref. Aug. 1950. 100 N48C
- EMERSON, R. A., and SMITH, H. H. Inheritance of number of kernel rows in maize. N. Y. (Cornell) Agr. Expt. Sta. Mem. 296, 30 p. Ref. Sept. 1950. 100 N48C
- NEW YORK (CORNELL) AGRICULTURAL EXPERIMENT STATION. Sixty-second annual report, 1949. Ithaca, 1950? 215 p. 100 N48C

North Carolina Agricultural Experiment Station, State College Station, Raleigh

- COTTON, W. P. Consumption of dairy products in urban North Carolina. N. C. Agr. Expt. Sta. B. 371, 52 p. Aug. 1950. 100 N81



North Dakota Agricultural Experiment Station, State College Station, Fargo

GOLDSBY, A. I., and EVELETH, D. F. Immunizing baby chicks against cecal coccidiosis. N. Dak. Agr. Expt. Sta. B. 361, 12 p. Ref. Oct. 1950. 100 N813  
 WIDAKAS, W., WIDDIFIELD, R. B., BRIGGLE, L. W. 1949 hybrid corn field trials. N. Dak. Agr. Expt. Sta. Agron. Mimeog. C. 82, 24 p. Jan. 1950. 100 N813A  
 BIMONTHLY bulletin 13(1), 43 p. Sept./Oct. 1950. 100 N813B

Ohio Agricultural Experiment Station, Wooster

RAY, G. S., HOUGHTON, E. E., and KENDALL, J. R. Ohio agricultural statistics, 1942-1946. Ohio Agr. Expt. Sta. B. 691, 108 p. Apr. 1950. 100 Oh3S

RAY, G. S., and others. Ohio agricultural statistics 1947 and 1948. Ohio Agr. Expt. Sta. B. 692, 47 p. May 1950. 100 Oh3S

E. E. Houghton, H. M. Clevenger, and J. R. Kendall, joint authors.

OHIO AGRICULTURAL PRODUCTION ADJUSTMENT COMMITTEE. Desirable production adjustments in Ohio agriculture in 1951. Ohio Agr. Expt. Sta. Dept. Agr. Econ. & Rur. Sociol. Mimeog. B. 219, 25 p. Oct. 1950. 281.9 Oh32

SCHWART, R. B., and FALCONER, J. I. Estimated gross cash income to Ohio farmers from the sale of agricultural products and from Government payments, by counties, 1949. Ohio Agr. Expt. Sta. Dept. Agr. Econ. & Rur. Sociol. Mimeog. B. 220, 15 p. Oct. 1950. 281.9 Oh32

ROBISON, W. L. Swine Day. Ohio Agr. Expt. Sta. Mimeog. Ser., Swine 66, 10 p. Sept. 21, 1950. 46.9 Oh34

BUSHNELL, J. Fertilizers for early cabbage, tomatoes, cucumbers and sweet corn. Ohio Agr. Expt. Sta. Res. B. 697, 40 p. Ref. June 1950. 100 Oh3S

NEISWANDER, R. B. The tomato pinworm [*Keiferia lycopersicella*]. Ohio Agr. Expt. Sta. Res. B. 702, 15 p. June 1950. 100 Oh3S

POLIVKA, J. B. Distribution and control of the Japanese beetle [*Popillia japonica*] in Ohio. Ohio Agr. Expt. Sta. Res. C. 4, 15 p. July 1950. 100 Oh3R

GITLIN, H. M., and POMERENE, W. H. Con-tour fencing. Ohio Agr. Expt. Sta. Res. C. 5, 11 p. May 1950. 100 Oh3R

GILLESPIE, F. L., and SCOTT, R. C. Bruising on apples, Delicious and Stayman Winesap varieties. Ohio Agr. Expt. Sta. Res. C. 6, 8 p. June 1950. 100 Oh3R

WASHBURN, R. G., HIBBS, J. W., and KRAUSS, W. E. Vitamin A potency of market milk. Ohio Agr. Expt. Sta. Res. C. 8, 8 p. Ref. Sept. 1950. 100 Oh3R

OHIO farm and home research 35:51-60. July/Aug. 1950. 100 Oh3S

Oklahoma Agricultural Experiment Station, Stillwater

CAMPBELL, J. D. Effects of auxiliary gin equipment on grades of cotton. Okla. Agr. Expt. Sta. B. B-357, 14 p. Sept. 1950. 100 Ok4

LAGRONE, W. F. Cotton growing in southeastern Oklahoma; a comparison of present methods and recommended practices. Okla. Agr. Expt. Sta. B. B-358, 32 p. Sept. 1950. 100 Ok4

FARM research flashes. Sept. 1950. 8 p. 100 Ok4F

Oregon Agricultural Experiment Station, Corvallis

WOLFE, J. W. A pumping manual for irrigation and drainage. Oreg. Agr. Expt. Sta. B. 481, 39 p. Aug. 1950. 100 Or3

HYER, E. A., BECKER, M. H., and MUMFORD, D. C. The economics of grass seed production in the Willamette Valley, Oregon. Oreg. Agr. Expt. Sta. B. 484, 56 p. Sept. 1950. 100 Or3

WIEGAND, E. H., and YANG, H. Y. Commercial preservation of apple juice. Oreg. Agr. Expt. Sta. B. 487, 4 p. Sept. 1950. 100 Or3

BOGART, R., and BLACKWELL, R. L. More beef with less feed. Oreg. Agr. Expt. Sta. B. 488, 4 p. Oct. 1950. 100 Or3

LITWILLER, E. M. Manufacture of jellies and preserves. Oreg. Agr. Expt. Sta. B. 490, 4 p. Oct. 1950. 100 Or3

POWERS, W. L. Climate and its relation to agriculture, Corvallis, Oregon, area, 1889-1950. Oreg. Agr. Expt. Sta. C. Inform. 487, 13 p. Aug. 1950. 100 Or3C

Pennsylvania Agricultural Experiment Station, State College

PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION. Science for the farmer; the sixty-third annual report, 1949/50. Pa. Agr. Expt. Sta. B. 529, 60 p. July 1950. 100 P381

ISENBERG, F. M., and ODLAND, M. L. Comparative effects of various organic mulches and clean cultivation on yields of certain vegetable crops. Pa. Agr. Expt. Sta. Prog. Rpt. 35, 10 p. Ref. Aug. 1950. 100 P381P

Puerto Rico Agricultural Experiment Station, Rio Piedras

SERRA, G., and PIÑERO, M. An economic study of family-sized farms in Puerto Rico. III. La Plata Farm Security Administration farms, 1943-44, 1944-45. P. R. (Rio Piedras) Agr. Expt. Sta. B. 79, 48 p. Apr. 1950. 100 P83

WOLCOTT, G. N. An index to the termite-resistance of woods. P. R. (Rio Piedras) Agr. Expt. Sta. B. 85, 26 p. Sept. 1950. 100 P83

Rhode Island Agricultural Experiment Station, Kingston

KUSCHKE, B. M., and SMITH, G. H. Rhode Island farmhouses. R. I. Agr. Expt. Sta. B. 307, 46 p. May 1950. 100 R34S

ODLAND, T. E., BELL, R. S., and SMITH, J. B. The influence of crop plants on those which follow. V. R. I. Agr. Expt. Sta. B. 309, 40 p. Ref. Aug. 1950. 100 R34S

HENDERSON, B. W., JR., and LORTON, C. L. Grass silage for dairy cattle. R. I. Agr. Expt. Sta. B. 311, 20 p. Ref. Aug. 1950. 100 R34S

RHODE ISLAND AGRICULTURAL EXPERIMENT STATION. Research for the farmer; 62nd annual report. R. I. Agr. Expt. Sta. Contrib. 763, 38 p. June 1950. 100 R34S

South Carolina Agricultural Experiment Station, Clemson

CLOANINGER, B. D. Inspection and analysis of commercial fertilizers. S. C. Agr. Expt. Sta. B. 379, 31 p. Nov. 1949. 100 So8

MOSER, A. M. Some dietary attitudes and ideas among rural school children in South Carolina. S. C. Agr. Expt. Sta. B. 384, 28 p. June 1950. 100 So8

LEASE, E. J., FARRAR, M. D., and JOHNSON, L. W. Producing better corn meal & grits in South Carolina. S. C. Agr. Expt. Sta. C. 78, 8 p. Oct. 1950. 100 So8

Tennessee Agricultural Experiment Station, Knoxville

DRAIN, B. D., and ROEVER, W. E. Tennessee strawberry. Tenn. Agr. Expt. Sta. C. 105, 4 p. Aug. 1950. 100 T25S

Texas Agricultural Experiment Station, College Station

FUGETT, K. A., BAYTON, J. A., and BITTING, H. W. Citrus preferences among customers of selected stores. Tex. Agr. Expt. Sta. B. 722, 48 p. June 1950. 100 T31S

GRIMES, M. A. The effect of cleaning on the grade, staple and price of cotton. Tex. Agr. Expt. Sta. B. 723, 38 p. June 1950. 100 T31S



- TEXAS. AGRICULTURAL EXPERIMENT STATION. DEPT. OF ANIMAL HUSBANDRY. Beef cattle investigations in Texas, 1888-1950. Tex. Agr. Expt. Sta. B. 724,79 p. Sept.1950. 100 T31S
- REA, H. E., WOLTERS, F. A., and ROBERTS, J. E. Borascu as a soil sterilant on Miller clay soil. Tex. Agr. Expt. Sta. Prog. Rpt. 1268,5 p. Sept.1,1950. 100 T31P
- PARNELL, E. D., BUTLER, O. D., and COVER, S. Storage tests with unwrapped frozen fryers. Tex. Agr. Expt. Sta. Prog. Rpt. 1270,6 p. Sept.4,1950. 100 T31P
- SOUTHERN, J. H., and MOTHERAL, J. R. Texas farm and ranch land prices, 1949. Tex. Agr. Expt. Sta. Prog. Rpt. 1271,7 p. Sept.13,1950. 100 T31P
- HUBBARD, J. L., and others. Cotton variety tests in the Lower Rio Grande Valley, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1273,6 p. Sept.15,1950. 100 T31P
- C. A. Burleson, P. W. Leeper and W. R. Cowley, joint authors.
- RIGGS, J. K., MILLER, J. C., and GEE, A. J. Self-feeding mixtures of salt and cottonseed meal to beef breeding cows wintering on pasture. Tex. Agr. Expt. Sta. Prog. Rpt. 1276,4 p. Sept.27,1950. 100 T31P
- MELTON, A. A., and others. Ground cotton stalks, ground gin trash and cottonseed hulls in rations for growing yearling steers. Tex. Agr. Expt. Sta. Prog. Rpt. 1277,3 p. Sept.27,1950. 100 T31P
- N. B. Willey, J. H. Jones and P. J. Lyerly, joint authors.
- HARVEY, C., SCHEMBER, V. E., and POTTS, R. C. Bur-clover and related species at the Brazos River Valley Laboratory. Tex. Agr. Expt. Sta. Prog. Rpt. 1278,2 p. Sept.27,1950. 100 T31P
- SPERRY, O. E. The effects of 2, 4-D on bitterweed [*Actinea odorata*] seed formation and germination. Tex. Agr. Expt. Sta. Prog. Rpt. 1279,3 p. Sept.27, 1950. 100 T31P
- WEIHING, R. M., MONCRIEF, J. B., and DAVIS, W. C. Yearlong grazing in the rice-pasture system of farming. Tex. Agr. Expt. Sta. Prog. Rpt. 1280, 4 p. Oct.5,1950. 100 T31P
- STIVER, E. N., COLLIER, J. W., and JOHNSTON, J. R. Crop variety tests at the Blackland Experiment Station, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1281,6 p. Oct.6,1950. 100 T31P
- HARVEY, C., and POTTS, R. C. Winter annual legumes, Brazos River Valley Laboratory, 1949-50. Tex. Agr. Expt. Sta. Prog. Rpt. 1282,1 p. Oct.13, 1950. 100 T31P
- JONES, J. M., and others. Bone meal and limestone supplements in calf fattening rations. Tex. Agr. Expt. Sta. Prog. Rpt. 1283,5 p. Oct.25,1950. 100 T31P
- J. H. Jones, F. E. Keating, N. R. Ellis and R. T. Clark, joint authors.
- BLOODWORTH, M. E., BURLESON, C. A., and COWLEY, W. R. A tractor-mounted spray for cotton defoliation. Tex. Agr. Expt. Sta. Prog. Rpt. 1284,4 p. Oct.27,1950. 100 T31P
- REA, H. E., WOLTERS, F. A., and ROBERTS, J. E. The effect of legumes, nitrogen fertilizer and row systems on the yield of corn on Miller clay soil. Tex. Agr. Expt. Sta. Prog. Rpt. 1285,3 p. Oct.27,1950. 100 T31P
- GAINES, J. C. Results of cotton insect control tests conducted in 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1286,4 p. Nov.3,1950. 100 T31P
- GARDENHIRE, J. H., and others. Oat fertilizer tests in north-central Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1287,2 p. Nov.6,1950. 100 T31P
- M. J. Norris, J. C. Smith and D. I. Dudley, joint authors.
- Utah Agricultural Experiment Station, Logan
- THOMAS, W. P., and others. Trends in agricultural production, costs, and returns in Utah. Utah. Agr. Expt. Sta. Spec. Rpt. 3,35 p. Sept.1950. 100 UtilSp
- G. T. Blanch, D. A. Broadbent, E. M. Morrison, R. H. Anderson, and E. W. Lamborn, joint authors.
- FARM & home science 11:45-64. Sept.1950. 100 UtilF
- Vermont Agricultural Experiment Station, Burlington
- MIDGLEY, A. R. Efficient use of dairy manure. Vt. Agr. Expt. Sta. Pam. 24,16 p. Aug.1950. 100 V59P
- Virginia Agricultural Experiment Station, Blacksburg
- PLAXICO, J. S. An economic study of the market turkey enterprise, Shenandoah Valley, 1948. Va. Agr. Expt. Sta. B. 440,35 p. July 1950. 100 V81S
- PATTESON, G. W., HARRIS, A. J., and FULTON, Z. M. K., JR. Economic land classification of Charlotte County. Va. Agr. Expt. Sta. B. 441,19 p. Sept.1950. 100 V81S
- PATTESON, G. W., and FULTON, Z. M. K., JR. Economic land classification of Carroll County. Va. Agr. Expt. Sta. B. 442,19 p. Sept.1950. 100 V81S
- Washington Agricultural Experiment Station, Pullman
- ELIAS, L. J. Farm youths' appraisal of their adjustments, compared with other youth. Wash. Agr. Expt. Sta. B. 513,45 p. Dec.1949. 100 W27E
- HEINEMANN, W. W., and others. Feeding value of sugar beet tops dehydrated, ensiled, and cocked in an open field; and dehydrated grass fed to fattening cattle. Wash. Agr. Expt. Sta. B. 517,20 p. Ref. July 1950. 100 W27E
- H. P. Singleton, M. E. Ensminger, and W. E. Ham, joint authors.
- WILEY, E. W. A motion study of kitchen arrangements. Wash. Agr. Expt. Sta. B. 518,15 p. Sept.1950. 100 W27E
- HEALD, W. R., MOODIE, C. D., and LEAMER, R. W. Leaching and pre-emergence irrigation for sugar beets on saline soils. Wash. Agr. Expt. Sta. B. 519,16 p. Oct.1950. 100 W27E
- LIEBEL, L. N. Peppermint oil; an economic study. Wash. Agr. Expt. Sta. Pop. B. 199,25 p. Aug.1950. 100 W27E
- West Virginia Agricultural Experiment Station, Morgantown
- WEST VIRGINIA. AGRICULTURAL EXPERIMENT STATION. Agricultural publications available from West Virginia University. Morgantown,1950. 2 p. 100 W52A
- Wyoming Agricultural Experiment Station, Laramie
- BARNES, O. K., LANG, R. L., and BEETLE, A. A. Dryland grass seeding in Wyoming. Wyo. Agr. Expt. Sta. B. 299,22 p. June 1950. 100 W99
- NELSON, A. L. Methods of tillage for winter wheat at Archer Field Station. Wyo. Agr. Expt. Sta. B. 300,28 p. Aug.1950. 100 W99



### STATE AGRICULTURAL EXTENSION SERVICE PUBLICATIONS

Includes State Agricultural Extension Service publications received in the library during the preceding month.

Publications issued by the State Agricultural Extension Service are not available from the U. S. Department of Agriculture but are often available from the publishing extension service.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

#### California University, College of Agriculture, Agricultural Extension Service, Berkeley

CALIFORNIA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Citrus management study San Diego County, 1949. Berkeley? 1950? 13 p. 275.29 C12En

CALIFORNIA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Colusa County rice management study, 1949. Berkeley? 1950? 14 p. 275.29 C12En

CALIFORNIA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Lassen [County] beef management study. Berkeley? 1950? 7 p. 275.29 C12En

CALIFORNIA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Lettuce; producing areas, shipping seasons, market summary, 1949 and 1950, by R. C. Rock. Berkeley, 1950. 17 p. 275.29 C12Le

CALIFORNIA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1949 Colusa County irrigated pasture study. Berkeley? 1950? 15 p. 275.29 C12Cn

CALIFORNIA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1949 Santa Barbara County lemon management study. Berkeley? 1950? 7 p. 275.29 C12En

CALIFORNIA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. San Diego County poultry egg management study, 1949, by R. H. Adolph and A. D. Reed. Berkeley? 1950? 6 p. 275.29 C12En

CALIFORNIA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Tokay and wine grape management study, San Joaquin County, 1949. Berkeley, 1950? 9 p. 275.29 C12En

CALIFORNIA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Two year summary of the Scott Valley beef management and land utilization study, May 1, 1947 - June 1, 1949, including data on the Klamath National Forest. Berkeley? 1950? 16 p. 275.29 C12En

CALIFORNIA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Ventura County citrus orchard management study, by W. Sullivan and G. E. Goodall. Berkeley? 1950? 25 p. 275.29 C12En

#### Colorado State College of Agriculture, Extension Service, Fort Collins

DURRELL, L. W., JENSEN, R., and KLINGER, B. Poisonous and injurious plants in Colorado. Colo. Agr. Col. Ext. B. 412-A, 80 p. May 1950. 275.29 C71E  
A revision of Colorado Agricultural Experiment Station Bulletin 455.

#### Connecticut University, College of Agriculture, Agricultural Extension Service, Storrs

HESELTINE, W. R., and BUSCHNER, F. A. Time to modernize your milking! Conn. Agr. Col. Ext. Folder 41, 8 p. July 1950. 275.29 C76Ex

CZAJKOWSKI, J. M., and SMITH, M. B. Choosing and using squash wisely. Conn. Agr. Col. Ext. L. 5, 4 p. Sept. 1950. 275.29 C76B

VAN DYKE, A. W. Retailing apples. Conn. Agr. Col. Ext. L. 6, 3 p. Sept. 1950. 275.29 C76B

CONNECTICUT UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. The thirty-first Connecticut home egg-laying contest, by R. E. Jones. Storrs, 1950. 5 p. 275.29 C76C

#### Florida University, College of Agriculture, Agricultural Extension Service, Gainesville

THURSBY, I. S. Preserving Florida citrus fruits. Fla. Agr. Col. Ext. B. 144, 46 p. June 1950. 275.29 F66

WATKINS, J. V. Gardenias in Florida. Fla. Agr. Col. Ext. B. 145, 16 p. Aug. 1950. 275.29 F66

PARVIN, F. W. A cow-and-calf plan for Florida. Fla. Agr. Col. Ext. C. 95, 6 p.-folder. July 1950. 275.29 F66C

#### Georgia University, College of Agriculture, Agricultural Extension Service, Athens

GEORGIA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1949 annual report. Ga. Agr. Col. Ext. B. 566, 19 p. June 1950. 275.29 G29

#### Hawaii University, Agricultural Extension Service, Honolulu

MCAHON, M. L. Handling fresh papayas for export. Hawaii. U. Agr. Ext. C. 289, 8 p. Aug. 1950. 275.29 H312Ac

NAKAGAWA, Y. Cucumber culture in Hawaii. Hawaii. U. Agr. Ext. C. 290, 10 p. Aug. 1950. 275.29 H312Ac

HIERONYMUS, A. M. Vegetative propagation of trees and shrubs. Hawaii. U. Agr. Ext. C. 291, 11 p. Aug. 1950. 275.29 H312Ac

TRIMBLE, A. P. Oriental foods. Hawaii. U. Agr. Ext. Home Econ. C. 235, 8 p. Aug. 1950. 275.29 H312H

CARTER, K. I. Gifts to eat. Hawaii. U. Agr. Ext. Home Econ. C. 236, 4 p. May 1950. 275.29 H312H

FEAGIN, G. A family of aprons. Hawaii. U. Agr. Ext. Home Econ. C. 237, 3 p. June 1950. 275.29 H312H

FEAGIN, G. Keiki malo and tie shirt. Hawaii. U. Agr. Ext. Home Econ. C. 238, 2 p. July 1950. 275.29 H312H

FEAGIN, G. 1950 apron. Hawaii. U. Agr. Ext. Home Econ. C. 239, 2 p. July 1950. 275.29 H312H

FEAGIN, G. Sew-simple baby bib. Hawaii. U. Agr. Ext. Home Econ. C. 240, 2 p. July 1950. 275.29 H312H

FEAGIN, G. Make your own table mats. Hawaii. U. Agr. Ext. Home Econ. C. 241, 2 p. July 1950. 275.29 H312H

FEAGIN, G. Tie-dye. Hawaii. U. Agr. Ext. Home Econ. C. 242, 4 p. July 1950. 275.29 H312H

TRIMBLE, A. P. Foods of Italy and Mexico. Hawaii. U. Agr. Ext. Home Econ. C. 243, 4 p. Aug. 1950. 275.29 H312H

TRIMBLE, A. P. Scandinavian food. Hawaii. U. Agr. Ext. Home Econ. C. 244, 4 p. Aug. 1950. 275.29 H312H

EDWARDS, N. L. Good light for good living. Hawaii. U. Agr. Ext. Home Econ. C. 245, 6 p. Sept. 1950. 275.29 H312H

EDWARDS, N. L. Lamps and lamp shades. Hawaii. U. Agr. Ext. Home Econ. C. 246, 6 p. Sept. 1950. 275.29 H312H

EDWARDS, N. L. Windows, the eyes of the home. Hawaii. U. Agr. Ext. Home Econ. C. 247, 2 p. Sept. 1950. 275.29 H312H

#### Illinois University, College of Agriculture, Extension Service, Urbana

PURNELL, W. F., and WALKER, E. D. Handling northeastern Illinois soils. Ill. Agr. Col. Ext. C. 663, 14 p. June 1950. 275.29 IL62C



- CARLISLE, G. R., and LYON, R. O. Swine manual for 4-H Club members. Ill. Agr. Col. Ext. C. 665,32 p. July 1950. 275.29 IL62C
- ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Livestock and feed outlook. Ill. Agr. Col. Ext. C. 668,6 p.-folder. Sept.1950. 275.29 IL62C
- Indiana - Purdue University, Agricultural Extension Service, Lafayette
- KARSTENS, G. A., and HARKER, D. H. Farm drainage in ten easy lessons. Purdue U. Agr. Ext. B. 269,16 p. 1950. 275.29 In2E
- LOTT, E. J., VAN CAMP, J. L., and AMICK, W. R. 4-H Club forestry manual, Division 1. Purdue U. Agr. Ext. B. 354,20 p. 1950? 275.29 In2E
- INDIANA. PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. Farm planning in Indiana. Purdue U. Agr. Ext. B. 355, 11 p. 1950? 275.29 In2E
- ENFIELD, G. H., LEHKER, G., and SHARVELLE, E. G. Tobacco tips from seed to sale. Purdue U. Agr. Ext. B. 356,28 p. 1950? 275.29 In2E
- BULLARD, J. F. Mastitis or garget in cattle. Purdue U. Agr. Ext. B. 358,12 p. 1950. 275.29 In2E
- CALDWELL, R. M., and DAVIS, J. J. Dying elms [Ulmus] and oaks [Quercus] in Indiana. Purdue U. Agr. Ext. L. 307,12 p. 1950. 275.29 In2L
- BENTLEY, M. J. Refinishing furniture. Purdue U. Agr. Ext. L. 309,19 p. July 1950. 275.29 In2L
- INDIANA. PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. DIV. OF AGRONOMY. Bromegrass in Indiana. Purdue U. Agr. Ext. L. 310,8 p. 1950. 1950. 275.29 In2L
- Iowa State College of Agriculture, Agricultural Extension Service, Ames
- IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. DAIRY HUSBANDRY SECT. Iowa dairy herd improvement associations; annual summary, 1949/50. Iowa. State Col. Agr. Ext. D. H. 214, 36 p. 1950. 275.29 Io9I
- Kentucky University, College of Agriculture and Home Economics, Extension Service, Lexington
- IMLAY, F., and HAAK, P. J. Home canning of meats. Ky. Agr. Col. Ext. C. 480,12 p. June 1950. 275.29 K415
- IMLAY, F. Play equipment for boys and girls. Ky. Agr. Col. Ext. C. 481,12 p. June 1950. 275.29 K415
- KENTUCKY. UNIVERSITY. COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Tobacco production in Kentucky. Ky. Agr. Col. Ext. C. 482,32 p. June 1950. 275.29 K415
- BYERS, G. B., BORTNER, C. E., and BACK, W. B. It pays to prime and cut burley tobacco ripe. Ky. Agr. Col. Ext. C. 483,8 p. June 1950. 275.29 K415
- VENNES, L. A., and BINKLEY, W. C. Farmer cooperatives; some questions and answers on their formation, functions, organization, and operation. Ky. Agr. Col. Ext. C. 484,38 p. June 1950. 275.29 K415
- Louisiana State University and Agricultural and Mechanical College, Division of Agricultural Extension, University Station, Baton Rouge
- LOUISIANA. STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE. DIV. OF AGRICULTURAL EXTENSION. 4th annual 4-H farm and home electric program for Louisiana. Baton Rouge? Feb.1950. 275.29 L93Ep
- Missouri University, College of Agriculture, Agricultural Extension Service, Columbia
- CLOUGH, R. S., and LINDSAY, C. Teaching by demonstration. Mo. Agr. Col. Ext. 4-H C. 100,18 p. July 1950. 275.29 M69B
- MISSOURI. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Plans for combination milk house & milking barn. Mo. Agr. Col. Ext. Plan 8-723-C1. chart. n.d. 275.29 M69PL
- MISSOURI. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Better pastures an important part of balanced farming. Columbia,1950? 4 p.-folder. 275.2 M69Bp
- MISSOURI. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Leader's guide. Home grounds. I. Columbia,1950. 4 p. 275.29 M69Le
- New Hampshire University, College of Agriculture and the Mechanic Arts, Extension Service, Durham
- WOODWORTH, H. C. Farm leases. N. H. Agr. Col. Ext. C. 298,6 p. June 1950. 275.29 N45C
- HEPLER, J. R., and others. Tomatoes for New Hampshire. N. H. Agr. Col. Ext. C. 299,20 p. June 1950. 275.29 N45C
- E. E. Ellis, M. C. Richards, and J. G. Conklin, joint authors.
- New York State College of Agriculture and Home Economics, Extension Service, Cornell University, Ithaca
- NEW YORK. STATE COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. List of publications published by the New York State Colleges of Agriculture and Home Economics and by the Cornell University Agricultural Experiment Station. N. Y. Agr. Col. Cornell Ext. B. 47,rev.,31 p. Sept.1950. 275.29 N48E
- CARNEY, M. Spot and stain removal. N. Y. Agr. Col. Cornell Ext. B. 356,rev.,35 p. Sept.1950. 275.29 N48E
- SHABEN, L., and HURD, L. M. How to prepare and cook poultry. N. Y. Agr. Col. Cornell Ext. B. 785, 31 p. Oct.1950. 275.29 N48E
- GRAY, H. E. Farm refrigerated apple storage. N. Y. Agr. Col. Cornell Ext. B. 786,48 p. Oct.1950. 275.29 N48E
- MACDONALD, J. F., and WILLIAMSON, L. Household cleaning. N. Y. Agr. Col. Cornell Ext. B. 790, 32 p. Aug.1950. 275.29 N48E
- CARNEY, M. Pressing equipment. N. Y. Agr. Col. Cornell Ext. B. 793,16 p. Sept.1950. 275.29 N48E
- MOORE, E. N. Blackhead (Histomoniasis) can be controlled. N. Y. Agr. Col. Cornell Ext. B. 806,4 p. Oct.1950. 275.29 N48E
- DUNN, M., and VOLLMER, E. Some facts about baking. N. Y. Agr. Col. Ext. Cornell 4-H Club B. 91,8 p. Sept.1950. 275.29 N48Cn
- PALMER, E. L., and GORDON, E. L. Nature writings; glimpses of a nature-study philosophy. N. Y. Agr. Col. Ext. Cornell Rur. Sch. L. 44(1),63 p. Sept.1950. 275.29 N48R
- North Carolina University, State College of Agriculture and Engineering, Extension Service, State College Station, Raleigh
- ORR, N., JONES, I. D., and TYLER, W. E. Freezing foods for the home. N. C. Agr. Col. Ext. C. 280, rev.,27 p. June 1950. 275.29 N811
- HARRIS, J., and CHAMBLEE, D. S. Carolina lawns. N. C. Agr. Col. Ext. C. 292,rev.,12 p. Aug.1950. 275.29 N811
- ELLIS, D. E., and GARRISS, H. R. Control tomato late blight. N. C. Agr. Col. Ext. C. 331,rev.,10 p. Jan.1950. 275.29 N811
- MORRIS, T. B., and PARRISH, C. F. Customer's choice in buying eggs. N. C. Agr. Col. Ext. C. 352, 7 p. Apr.1950. 275.29 N811
- GRIMSLEY, C. J. Making a go of marriage. N. C. Agr. Col. Ext. Club. Ser. 69,14 p. May 1950. 275.29 N811C
- NORTH CAROLINA. UNIVERSITY. STATE COLLEGE OF AGRICULTURE AND ENGINEERING. EXTENSION SERV. D.H.I.A. cow testing. N. C. Agr. Col. Ext. Folder 81,6 p. Sept.1950. 275.29 N811Ex



GARRETT, E., and BRYAN, R. E. Metal work. N. C. Agr. Col. Ext. Misc. Pam. 119(A), 8 p. Aug. 1950. 275.29 N811M

BRYAN, R. E. Articles made from corn shucks. N. C. Agr. Col. Ext. Misc. Pam. 119(B), 11 p. Aug. 1950. 275.29 N811M

WILSON, S. V., and DUBOIS, R. Salads, a spring and summer tonic. N. C. Agr. Col. Ext. Misc. Pam. 125, 4 p. Mar. 1950. 275.29 N811M

WILSON, S. V., and DUBOIS, R. Salad dressings. N. C. Agr. Col. Ext. Misc. Pam. 126, 4 p. Mar. 1950. 275.29 N811M

WILSON, S. V., and DUBOIS, R. Eat to control your weight. N. C. Agr. Col. Ext. Misc. Pam. 128, 6 p. May 1950. 275.29 N811M

MCIVER, J. Suits and coats. N. C. Agr. Col. Ext. Misc. Pam. 129, 3 p. May 1950. 275.29 N811M

Ohio State University, College of Agriculture, Agricultural Extension Service, Columbus

BARDEN, R. D. Working with wood. II. Farm mechanics 4-H Club. Ohio. Agr. Col. Ext. 4-H C. 104, rev., 39 p. Feb. 1950. 275.29 Oh322

Oklahoma Agricultural and Mechanical College, Extension Division, Stillwater

MOORE, L. Half way up the stairs. Okla. Agr. Col. Ext. C. 524, 8 p. n.d. 275.29 Ok41C

RIGDON, H. P. Eradication of trees and shrubs. Okla. Agr. Col. Ext. C. 526, 10 p. n.d. 275.29 Ok41C

CHAFFIN, W., and GRANSTAFF, E. L. Wheat harvesting losses. Okla. Agr. Col. Ext. C. 527, 4 p. 1950? 275.29 Ok41C

MOORE, L. The art of growing older. Okla. Agr. Col. Ext. C. 528, 8 p. 1950? 275.29 Ok41C

MOORE, L. Everyday manners for 4-H boys and girls. Okla. Agr. Col. Ext. C. 529, 12 p. n.d. 275.29 Ok41C

Oregon State College, Federal Cooperative Extension Service, Corvallis

HOWELL, H. B., and KING, A. S. Forage crops for coast counties of Oregon. Oreg. State Col. Ext. B. 707, 32 p. July 1950. 275.29 Or32B

CHURCHILL, J. R., THOMAS, M. D., and GRAHAM, B. M. Oregon-Washington nut tree survey, 1949. Oreg. State Col. Ext. B. 708, 20 p. July 1950. 275.29 Or32B

Virginia Agricultural and Mechanical College and Polytechnic Institute, Agricultural Extension Division, Blacksburg

PRICE, H. L. Virginia farmers at war; essays on agricultural production in the Old Dominion during the Second World War. Va. Agr. Col. Ext. B. 179, 108 p. Apr. 1950. 275.29 V81B

Washington State College, Extension Service, Pullman

SNYDER, J. C. Strawberry growing in Washington. Wash. State Col. Ext. B. 246, rev., 50 p. Sept. 1950. 275.29 W27P

WASHINGTON STATE COLLEGE. POULTRY COUNCIL. Laying cages for chickens. Wash. State Col. Ext. B. 383, 8 p. Oct. 1950. (Poultry Pointers 1, rev.) 275.29 W27Pou

RADIR, R. To the 4-H leader. Wash. State Col. Ext. B. 431, 20 p. Sept. 1950. 275.29 W27P

WASHINGTON STATE COLLEGE. EXTENSION SERV. Homes for Washington farms. Wash. State Col. Ext. C. 159, 2 p. Sept. 1950. 275.29 W27C

OREGON STATE COLLEGE. FEDERAL CO-OPERATIVE EXTENSION SERV. Dwarf smut [of wheat] in the Pacific Northwest. Wash. State Col. Ext. P. N. W. B. 2, 3 p. Aug. 1950. 275.29 W27Pn

Washington State College, Extension Service cooperating.

Wisconsin University, College of Agriculture, Agricultural Extension Service, Madison

AHLGREN, H. L. Meet summer pasture shortages with Sudan grass. Wis. Agr. Col. Ext. C. 224, rev., 8 p. July 1950. 275.29 W75B

AHLGREN, H. L., and BURCALOW, F. V. Bromegrass & alfalfa for hay, pasture or silage. Wis. Agr. Col. Ext. C. 344, rev., 12 p. June 1950. 275.29 W75C

WISCONSIN UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Agricultural extension in Wisconsin, report for 1949. Wis. Agr. Col. Ext. C. 388, 31 p. July 1950. 275.29 W75C

MCCORDIC, M. P., and YOUNG, L. A. Ironing made easier. Rev. Wis. Agr. Col. Ext. Spec. C., 8 p. July 1950. 275.29 W75S

ALLEN, N. N., BOHSTEDT, G., and DUFFEE, F. W. How about grass silage? Some suggestions on making and feeding it. Wis. Agr. Col. Ext. Stencil C. 277, rev., 13 p. Aug. 1950. 275.29 W75B

WISCONSIN UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Laryngo-tracheitis of chickens. Wis. Agr. Col. Ext. Stencil C. 316, 5 p.-folder. June 1950. 275.29 W75B

WISCONSIN UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Avian leukosis complex. Wis. Agr. Col. Ext. Stencil C. 318, 5 p.-folder. June 1950. 275.29 W75B

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Includes publications received in the library during the preceding month.

BINNS, SIR B. O. The consolidation of fragmented agricultural holdings. Food & Agr. Organ. United Nations. FAO Agr. Studies 11, 99 p. Sept. 1950. 28 F73

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Commodity reports: poultry and eggs. Washington, 1950. 20 p. 281.3479 F73

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Food and agricultural statistics; monthly bulletin 3(11), 32 p. Nov. 1950. 251 F73M

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Survey of rural cooperatives in countries in south east Asia (with references to Australia and New Zealand). Washington, 1949. 96 p. 280.2 F733

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. World outlook and state of food and agriculture, 1950. Washington, 1950. 81 p. 389.9 F735St

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. AUSTRIAN NATIONAL FAO-COMMITTEE. Besuch des Europadirektors der FAO in Wien. Food & Agr. Organ. United Nations. Austrian Natl. Com. Mitt. 2:25-44. 1950. 281.9 F732

FOOD and agriculture; the FAO European bulletin 3(2):67-130. Apr./June 1950. 389.8 F7326

GORDAN, A. S. Essential considerations in mechanization of farming. Food & Agr. Organ. United Nations. FAO Devlpmt. Paper 5, 11 p. June 1950. 281.9 F733

LEWIS, A. B., PHILLIPS, R. W., and BUCK, J. L. Essential steps in national agricultural improvement. Food & Agr. Organ. United Nations. FAO Devlpmt. Paper 3, 16 p. Apr. 1950. 281.9 F733

MAES, E. E. La escuela rural en Guatemala en relación con la extensión agrícola. Washington, 1949? 8 p. 275.24 M26

Issued by Food and Agriculture Organization of the United Nations and Interamerican Institute of Agricultural Sciences.

PHILLIPS, R. W. Improving livestock under tropical and subtropical conditions; report of the FAO meeting on livestock breeding under tropical and subtropical conditions, held in Lucknow, U. P., India, 13-22 February 1950. Food & Agr. Organ. United Nations. FAO Devlpmt. Paper 6, 53 p. Ref. July 1950. 281.9 F733

UNASYLVA 4(3):97-144. July/Sept. 1950. 99.8 Un1







# AUTHOR INDEX

Item	Item	Item	Item	Item
Aaltonen V T 2188	Agricultural 9076	Alencar F M A 2737	Almeida O de 3207	Anceschi L 4119
Aamodt O S 1223	Economics 222	Alessandrini M E 5277	Almy E F 7486	Anceschi L 4191
Aas G 7598	Society 4190	Alexander A E 4593	Alonzo A E 3243	Anceschi L 4874
Aaseth A L 3075	Agrimi P 6636	Alexander C P 5824	Alp H H 6829	Anceschi L 5154
Abdullah H 9237	Agsteribbe E 2438	Alexander C P 5825	Alphen J van 8902	Anceschi L 6724
Abdullah M 2589	Aguillo Bonnin J 2439	Alexander E J 109	Altara I 4118	Ancey J 7816
Abe H 3477	Aguirre A R 2439	Alexander J B 3633	Altenried M 9406	Anders R L 3788
Abe U 3632	Aguirre Arre-gui A 8962	Alexander P 7813	Altschul A M 8942	Anders 9903
Abel H 8471	Ahlfeld H 1225	Alexander W H 7552	Alvarado C A 5978	Andersen A B 7661
Abel P M 5275	Ahlgren G H 1226	Alexandrov N 6082	Alvarez 2617	Andersen F S 5823
Abel W 9075	Ahlgren H L 1227	Alfend S 7273	Merino M 7468	Andersen J C 1049
Åberg B 723	Ahmad B 290	Algeria Serv 1482	Alvi F R M 8545	Andersen J C 1232
Abetz K 3076	Ahmad G 2055	Agricole 1518	Alvi F R M 1964	Andersen J C 1233
Abetz K 3117	Ahmad H 7119	General 1519	Alviar M A 282	Andersen J C 1234
Abetz K 3141	Ahmad M 5276	Algeria Serv 2140	Alvim P de T 7815	Andersen M 3041
Abeyratna E F L 2552	Ahmad M 6452	Agricole 725	Alzina Caules J 35	Andersen O 1730
Abkhazava A A 8296	Ahmad N 7811	General 725	Amaral J F do 9730	Andersen S 3399
Ableiter J K 2367	Ahmad Q 8963	Algeria Serv 1519	Amaral S F do 5280	Andersen S 10272
Abrahamse S 1606	Ahmad S M 7812	Agricole 2140	Amargos J L 1949	Anderson A 7817
Abrahamson P E R 6404	Ahmed I 4435	General 2140	Amato F d' 727	Anderson C P 9244
Abrahamson P E R 9238	Ahmed S M 9728	Algeria Serv 2140	Amaya R A 6617	Anderson D 2618
Abramov V 9192	Ahmed Y 8771	Agricole 725	Ambiere F 7814	Anderson E 1
Abrams H K 9726	Ahmed Y S 2098	General 725	Ambrosov A 1950	Anderson E 9731
Abreu J 4335	Ahrano F W 4117	Algeria Serv 725	American 5281	Anderson E E 4875
Abshier G S 7773	Ahrano F W 6722	de la Protec-tion des 725	Association of Economic 725	Anderson E J 2590
Acker J 7551	Aicher L C 4186	Végétaux 8678	Entomologists 7815	Anderson E L 9732
Ackerman J 9405	Aicher L C 4187	Algerino A 8678	North Central States Br 7815	Anderson G R 2247
Ackerman W 1607	Ainsworth G C 3786	Alieva S A 1650	American Asso-ciation of Tex-tile Chemists and Colorists 7403	Anderson H W 343
Ackerson C W 3686	Ainsworth J C Jr 1228	Alinari E 3555	Science Asso-ciation 7403	Anderson J A 8353
Acuña C 5	Aliran J W 8677	Alisov B P 10382	Committee on Butter 2541	Anderson J W 2840
Adam A 7660	Alton E W 9663	Allam M W 3787	American 2541	Anderson M A 2200
Adamczewski S 6239	Akamine E K 9054	Allan P B M 6240	Forestry As-sociation 2541	Anderson M S 2894
Adamo O A d' 3077	Akimochkin N G 3242	Allaway W H 2277	American For-estry Associa-tion 3318	Anderson O B 7404
Adams 4653	Akins H 5977	Allaway W H 2402	Association 5282	Anderson R 2656
Adams D I 3297	Alabama Dept of Conservation 9727	Allbritten H G 2541	American Hotel Association 5282	Anderson R 2657
Adams G 9727	Alais C 7467	Allen B E 3525	Marketing Associa-tion 7064	Anderson R H 9563
Adams G A 8298	Alarcón 5481	Allen B S 2942	American Mar-eting Associa-tion 7064	Anderson T 7120
Adams J E 6677	González J 4716	Allen E K 601	American Meat Institute 8473	Anderson T C 2619
Adams P A 6451	Albada M van 4716	Allen E R 5681	American Oil Chemists' Society 8679	Anderson W A 4444
Adams T M 10372	Al'benskiĭ A V 1727	Allen F E 4316	American Oil Chemists' Society 8680	Anderson W R 3131
Adams V F 1224	Al'benskiĭ A V 3040	Allen G S 3215	American Paper and Pulp Asso-ciation 3526	Andersson G 9030
Adams W E 2421	Albera A E 1728	Allen J W 3482	Association 5282	Andes J O 281
Adderly J A 3118	Alberta Agri-cultural Engi-neering Committee 8690	Allen M W 558	American Mar-eting Associa-tion 7064	Andes J O 372
Addicott F T 600	Alberta Dept of Agriculture 6637	Allen N 5278	American Mar-eting Associa-tion 7064	Andison H 6084
Adolph R H 9528	Alberta Dept of Agriculture 6637	Allen N 5682	American Mar-eting Associa-tion 7064	Ando M 204
Adrián J 8690	Alberta Dept of Agriculture 6637	Allen N 6167	American Mar-eting Associa-tion 7064	Andrade A B de 3585
Adriance G W 516	Alberta Dept of Agriculture 6637	Allen N 9902	American Mar-eting Associa-tion 7064	Andrade A C 934
Afanas'ev A P 3241	Alberta Dept of Agriculture 6637	Allen N L 3687	American Mar-eting Associa-tion 7064	Andrade E de 7274
Afanas'eva M S 3963	Albertario P 8300	Allen N N 3687	American Mar-eting Associa-tion 7064	Andrade S S F 7405
Afanas'eva M S 4116	Albertario P 8301	Allen N S 726	American Mar-eting Associa-tion 7064	Andrade T de 7275
Afanasiev M M 446	Albertario P 9999	Allen O E 1827	American Mar-eting Associa-tion 7064	André E 991
Afanasiyev M M 1448	Alberti 8472	Allen O N 2319	American Mar-eting Associa-tion 7064	André F 5283
Afzal M 1202	Albertini M 9077	Allen P H 1729	American Mar-eting Associa-tion 7064	Andreae B 8965
Afzal M 1189	Alberts J O 4767	Allen R S 4151	American Mar-eting Associa-tion 7064	Andreae F 4562
Afzal M 6081	Albion N 8964	Allen T C 5279	American Mar-eting Associa-tion 7064	Andreae F 4563
Afzelius A 10316	Albrecht R 2616	Allen W R 6083	American Mar-eting Associa-tion 7064	Andreeva A I 373
Agafonov E 8299	Albrecht R 6723	Allen W R 8155	American Mar-eting Associa-tion 7064	Andreevskaja E G 7312
Agarkov V A 503	Albrecht W A 1079	Allen W S 6747	American Mar-eting Associa-tion 7064	André F 8302
Aggarwal J S 8775	Albrecht W A 2352	Allis J A 10383	American Mar-eting Associa-tion 7064	Andrés J 4192
Aginfañ A A 724	Alcaraz Mira E 517	Allison B R 6909	American Mar-eting Associa-tion 7064	Andres J 4193
Aglibut A P 6968	Aldinger G 280	Allison J L 281	American Mar-eting Associa-tion 7064	Andresen N 4352
Agnew A 9167	Aleksandrov L 9193	Allouard P 3317	American Mar-eting Associa-tion 7064	Andrew F W 6910
Agnew D B 8785	Aleksandrov V I 6669	Allred B W 110	American Mar-eting Associa-tion 7064	Andrews A 1731
Agostini E 9239	Alekseev A 9194	Allred B W 111	American Mar-eting Associa-tion 7064	Andrews F N 3789
Agranovskii A 9705	Alekseev M A 1229	Allred W M 1231	American Mar-eting Associa-tion 7064	Andrews F N 4793
Agricultural Bur of New South Wales 9240	Alekseev M A 1230	Alluē Morer A 9729	American Mar-eting Associa-tion 7064	Andrews M E 3992
		Almeida J L F de 86	American Mar-eting Associa-tion 7064	Andrews M E 3993
			American Mar-eting Associa-tion 7064	Andrews S 6965
			American Mar-eting Associa-tion 7064	Andrews S 10373



	Item		Item		Item		Item		Item
Andrews W B	2441	Argentina Mi-	298	Arnold B L	1237	Attems C	5615	Bacon A F L	6247
Andrews W B	5284	nisterio de		Arnold B L	4154	Attina, S	3791	Bacon C M	9904
Andrews W B	7818	Agricultura		Arnold C R	9107	Attlee H G	6454	Badell C E	6555
Andrianova N S	5285	Argentina Mini-	3046	Arnold K	3344	Attlee O J	2443	Badger F J	3787
Anema R	3994	sterio de Agri-		Arnold L K	8682	Attlee O J	2561	Baechler L	4411
Anet F A L	392	cultura y Gana-		Arnold R E	1732	Aubert J	6455	Baehr H A	8309
Angelier C	5613	deria		Arnold R E	1733	Aubert J	6456	Baer M	904
Angelier E	5614	Argentina Mi-	10194	Arnould C	7406	Aubert P	1608	Bagedda G	5175
Angelina P N	9664	nisterio de		Arroela J S	1520	Aubert P	8156	Bages Tarrida J	4878
Angell G N	1235	Agricultura y		Arriagada	9246	Aublin L	8157	Bagge F	7065
Angell G N	3119	Ganaderia		Herrera J		Aubone G R	8683	Bagd S	9676
Angell G N	4353	Argentina Mi-	1083	Arrighi R	4564	Aubonne G d'	8011	Bagué J	3965
Angell G N	8943	nisterio de		Arrow G J	5683	Aubréville A	113	Bahia Dept Es-	8669
Angelroth H	10273	Agricultura y		Arruda H C	1449	Aubréville A	114	tadual de Es-	
Angely J	2	Ganaderia		Arruda S C	1449	Audcler J L	6085	tatística	
Angerer	9106	Dirección de		Arrue A	9247	Audcler L	2444	Bahov J	5003
Angladette A	8303	Información		Arsenault L	9407	Audin	2623	Baichurova	1084
Angot M	5219	Argentina Minis-	2116	Artem'ev G V	285	Audley R S	7823	Baichurova	
Angot M	5220	terio de Agri-		Artemov A S	1652	Auger A	9735	Kh Kh	
Anlasson G	8304	cultura y Gana-		Arthur J C Jr	7821	Auguste A	1609	Bailey C W	9249
Anisimov N I	2111	deria		Arvy L	4770	Auhagen E	10071	Bailey D L	374
Annand P N	10274	Dirección de		Arykin I G	3377	Ault C N	5117	Bailey I W	651
Ansari M A R	6453	Información		Arzt T	728	Ausderau E	7276	Bailey J E	1451
Anstey T H	1651	Argentina Minis-	3077	Arzumanian E A	3996	Ausemus E R	412	Bailey J W	4122
Anthony E W	6173	terio de Agri-		Asada S	3165	Auslander J	8469	Bailey J W	4194
Anthony D J	5223	cultura y		Asahina Y	247	Austin Martin	10151	Bailey L F	815
Antoniani C	2353	Ganaderia		Asana R D	1450			Bailey M V	2447
Antonov I G	1050	Dirección de		Aschaffenburg	7469			Bailey R W	2413
Antopol W	941	Información		R				Bailly J	3792
Antram C B	6241	Argentina Mi-	7819	Asdrubali M	7470			Bain F M	286
Anusz L	8546	nisterio de		Asdrubali M	8588			Baines R C	559
Anwandter E F	3688	Información		Asenjo C F	4648			Baird G	2448
Anwyl J E	5482	Argentina Mi-		Asghar A G	2621			Baird R W	2624
Anwyl J H	8450	nisterio de		Ashby E	603			Bairstow L	10275
Apice M d'	4289	Agricultura y		Ashby R C	8587			Baisden L A	3793
App B A	5822	Ganaderia		Ashe A J	4121			Baker A Z	8561
Apple J W	5286	Dirección de		Ashley R H	2412			Baker C E	8210
Apple J W	6242	Información		Ashplant H	2113			Baker D R	3463
Apple J W	6243	Argentina Mini-	8417	Ashton H	7922			Baker E W	5616
Arán S	5114	sterio de Agri-		Ashton J	5116			Baker F S	3166
Arañez J B	4479	cultura y Gana-		Ashton W E	3997			Baker G O	2247
Araujo I A de	9245	deria		Ask W	9030			Baker H C	8903
Araujo R L	6179	Dirección de		Askew H O	729			Baker L A E	7639
Araujo e Silva	1236	Información		Aslam M	1136			Baker L A E	7640
O B de		Argentina Mi-	7819	Aslyng H C	2622			Baker M S	2625
Araules J d'	283	nisterio de		Asmundson V S	6930			Baker R H	6524
Arber A R	602	Agricultura y		Aso K	3634			Baker R L	8797
Arbuckle W S	7662	Ganaderia		Assam Dept of	10195			Baker T A	4165
Arbuckle W S	7663	Dirección de		Agriculture				Bakharev A N	10197
Arbuthnot K D	6244	Información		Assam Forest	2943			Bakhtin P U	2317
Arbuthnot K D	6245	Argentina Mi-	1083	Admin				Bakhtin H A	5827
Arceneaux G	2056	nisterio de		Assmann E	3078			Balcom R B	2626
Arce J d'	3964	Agricultura y		Associação	6966			Baldelli B	5071
Archer E	2620	Ganaderia		Comercial do				Baldelli B	5617
Archer J G	578	Dirección de		Amazonas				Balducci A	6967
Arches M d'	4876	Producción de		Association	1734			Baldwin J T Jr	117
Arditi A	2442	Granos y		Française				Bale A P	3378
Arditi R	9033	Forrajes		des Amateurs				Balinsky B I	6457
Argaillet L	7315	Arias R S	3574	de Cactées et				Ball M	9055
Argentina Direc-	8681	Aries L	3790	Plantes				Ball V	1736
ción de Econo-		Aries R S	3556	Grasses				Ballantyne	4195
mia		Aristiguieta L	2112	Association	8629			E E	
Argentina	10000	Ark P A	284	Française des				Ballatore G P	2109
Dirección de		Ark P A	778	Chimistes des				Ballou F H	8966
Economía		Ark P A	779	Industries du				Balls W L	1191
Argentina	8305	Arkema P W B	6553	Culr				Ballu G	6612
Dirección de		Arkangel'skiy	5287	Association of	9733			Balmaceda R H	5029
Laboratorios		N N		Land-Grant				Bal'mont V A	3658
Argentina Direc-	8306	Armment C	3344	Colleges and				Balser R L	1051
ción de Labo-		Armer W	4120	Universities				Baltes J	8685
laboratorios		Armstrong A R	7820	Associazione	7244			Banco de Crédito	9108
Argentina	8308	Armstrong D G	7804	per lo Sviluppo				da Borracha	
Dirección de		Armstrong F E	5209	dell'Industria				Banco Nacional	9109
Laboratorios		Armstrong J	4877	nel Mezzogiorno				Agricola y	
Argentina		Armstrong J	5115					Ganadero	
Dirección de		Armstrong P S	8109	Astaf'ev V E	3998			Bandini M	2414
Laboratorios		Armstrong P S	8208	Astbury A K	9195			Bandini M	9583
Argentina Direc-	8307	Armstrong T	6246	Atanaslu P	4824			Bandyopadhyay	7824
ción de Labo-		Arnaboldi R	2057	Atanaslu P	5198			S B	
laboratorios		Arnau G	246	Atherton J C	9734			Bane A	5007
Argentina Direc-	1190	Arnold A	4437	Atkins F C	1951			Banerjee R	993
ción General		Arnold B L	1133	Atkinson F E	8209			Banerjee S	993
de Fomento				Atkinson H J	2248			Banga O	1952
Agrícola								Bank of Canada	7247



Item	Item	Item	Item	Item	Item				
Bank of Nova Scotia	7154	Bartling F W	8310	Beaty H	7191	Bell R S	1066	Berge S	4356
Banks A	9056	Barton T H	8474	Beau M	8798	Bell R W	7701	Berge S	8476
Banks N	6458	Baryshman F S	3244	Beauchamp C E	732	Belle G	3695	Berge T O	5066
Banks N	6459	Baryshnikov I A	5020	Beauchamp C E	2452	Bellew J	7192	Bergelro J M	10385
Bañuelos M	9250	Basak K K	8705	Beauchamp C E	2836	Belling B	2453	Berger F	9197
Banzon J	8071	Basbous M	3042	Beaufoy E M	6250	Bellisio F B	1953	Berggren G	4626
Baptist S	9520	Basden J F	5685	Beaufoy S	6250	Belokhonov I V	1521	Bergh H	10405
Baptista C	1052	Bashenina N V	3301	Beavers A H	2249	Belokhonov I V	1522	Berghen C	4
Baraev A I	1238	Bashlr M	2535	Bechetoille P	1653	Belokon' I P	3209	van den	
Baragar A E	7666	Bashmakov N I	1238	Bechtold	288	Belokur V M	3960	Berghen C	570
Barashev V F	3379	Basilewsky P	5686	Bechuanaland Veterinary Dept	3795	Belosel'skaia Z G	5690	van den	
Barba A della	3691	Basilewsky P	5687	Beck G	7599	Belousov A	7600	Bergman B	607
Barba L della	2627	Baskakov N	3494	Beck S D	6251	Belpaire A	7827	Bergstrom C A	10002
Barbado F J	6831	Basova A I	6774	Becker	5030	Bels P J	1954	Bergstrom C A	10003
Barber A	1737	Bass E	4213	Becker	9738	Beltrán	3797	Bergum A T	7670
Barber E L	9409	Bastin E W	3	Becker E	8686	Monferrer J M		Berim N G	5632
Barber F W	7667	Bastin H	1739	Becker E R	4771	Beltrán	4198	Beristain B	10004
Barber S A	2287	Bastisse E M	730	Becker E R	4772	Monferrer J M		Berke P	8590
Barber T E	3794	Bastow Y	7826	Becker F	3967	Ben-Haim H	1610	Berkenkamp	9740
Barbosa S R	4654	Basu J K	2738	Becker M H	8953	Bendarroch E I	5980	Bernard C	4219
Barcellos H A	2856	Battaglia E	731	Beckham C M	5709	Bender C B	1242	Bernard P	1087
Bardel J	2114	Battaglini A	3750	Becking J H	3080	Bendixen H C	3696	Bernard P	8314
Barden R D	9736	Bates D W	6832	Beckman H J	5225	Benedict H M	735	Bernard P	8315
Bardi S J	4565	Bates H E	1740	Bedbrook C	1741	Benedix E H	1955	Bernard P	8316
Bardia Bardia R	375	Bathen R	2900	Bedmar Martos E	5119	Benevides R	8012	Bernard R	4732
Bardia Bardia R	6248	Baf'sylev E	5688			Benezet L	7279	Bernard R	2454
Bardin R	533	Battistelli E	2449	Beebe R W	9168	Benford H	1243	Bernard R	9255
Bardinskafá M S	994	Battistelli E	2450	Beecham W	7278	Benjamin R K	606	Bernard R	8800
Bardoulat	4196	Battistelli E	2593	Beekom	2369	Benne E J	736	Bernard R	9741
Bardt R	3692	Battistelli E	2629	C W C van		Benne E J	928	Bernaux P	377
Bareggi G	4197	Battles K V	8311	Beekom C W C	9905	Bennett C A	7828	Berner L	6462
Barger F	376	Bauchet	6556	van		Bennett C A	7829	Bernfus E	5290
Barger W R	8110	Baudet P	7677	Beeler M N	3796	Bennett H H	2739	Berngardt E N	6725
Barger W R	9057	Baudouin R	6181	Beeler M N	9252	Bennett H H	2740	Bernikov V V	3120
Bargioni G	5288	Baudu I	7524	Beeman G L	7553	Bennett H H	2741	Bernis F	122
Baribeau B	8158	Bauer E L	8112	Beer	249	Bennett H H	2742	Bernstein I M	8687
Barker H D	7825	Bauernfeind Z	4526	Beer R E	6147	Bennett H H	2743	Bernuth Frau Von	520
Barker W E	4717	Baum E	9521	Beerstecher	1046	Bennett H H	2744		
Barkman J	248	Baumgartner W	8312	E Jr		Bennett H H	2745	Berry G W	4508
Barley H D	4718	Baumgartner W	8313	Beesley T E	2370	Bennett H H	2746	Berthault P	2455
Barlow F S	4354	Baur K	2451	Beeson K C	733	Bennett H H	2747	Berti H	4200
Barlowe R	2628	Bauriedel W R	3910	Beeson W M	4124	Bennett H P	7005	Berton A	214
Barnes A C	287	Beetle A A	119	Beetle A A	1239	Bennett H W	1244	Berton A	738
Barnes C P	9453	Beetle A A	1239	Begucheve A P	4355	Bennett R R	2060	Bertramson B R	2300
Barnes C S	10384	Bavaria Statistisches Landesamt	9640	Behrens H	4566	Bennion N L	4719	Bertramson B R	2311
Barnes D F	5452	Bavendamm W	3302	Behura B K	6460	Benoist R	120	Bertramson B R	2504
Barnes D F	5684	Bavngaard A	2999	Beldeman I N	734	Benoist R	121	Bertrand A L	9678
Barnes D F	6159	Bawden F C	518	Beler M	5484	Benoit C E	8799	Bertrand G	739
Barnes D F	6160	Bawden F C	519	Beilmann A P	1718	Benoit P L G	6182	Bertrand G	7280
Barnes O K	1239	Bawker A M	118	Beilmann A P	1742	Benoit P L G	6252	Berujon J	4857
Barnett A J G	3693	Baxter G A	7054	Beilmann A P	2115	Benoy W G	6833	Bétremlieux R	2271
Barney F D	1738	Bay W W	5186	Beinke E G	9522	Bensa S	1743	Betrius A	10005
Barnicoat C R	7623	Bayer	5483	Beirne B P	6087	Bensa S	1744	Besser A A	3575
Baron D	5118	Bayerische Landesanstalt für Tierzucht Grub	5155	Belan S	1654	Benson J R	2631	Bessis M	4770
Baron D	6748	Baykov A	9251	Belash T I	10199	Benson M	7668	Bessis M	4773
Baron M	7613	Bayley C H	6249	Belda Filho J	9906	Benson R B	6183	Bethke R M	3698
Baronti A C	4438	Bayma C	8630	Belen'kiy N G	8559	Benson R B	6184	Betten H L	4412
Barquero H	7277	Bayma C	9585	Belfradel C A	10200	Benson R H	5160	Bettini T M	4000
Barracrough S L	3079	Bayton J A	8102	Belfrage S	10276	Bent D	4199	Betts A D	5485
Barrandeguy E A	1085	Bea E F	5610	Belgium Institut National de Statistique	10001	Benterud J E	7554	Beuk J F	10153
Barratt R W	1002	Beach E F	10116	Belgium Minis-tère des Affaires Économiques et des Classes Moyennes	9253	Benterud T	7669	Beunder G W	8113
Barrau J	8211	Beach F A	3966	Belkin G P	6766	Bentivoglio A	1086	Beutner K	3798
Barreda J A	9737	Beach J R	4832	Bell A	9677	Bentley M J	10346	Bevan L A	7066
Barret A	7712	Beacham L M	8070	Bell E H	9586	Benton W E	9739	Bevan L E W	2632
Barron T	4879	Beak W	3999	Bell E J	8309	Bequaert J	5928	Bevan L E W	7407
Barrons K C	2058	Beal G M	4359	Bell E J	10143	Bequaert J	6461	Bevenue A	984
Barros H de	9584	Beal R S Jr	5689	Bell F W	2481	Berach S	9254	Bever W M	425
Barsukov G M	1192	Beale F A	2059	Bell J E	1241	Beran F	5289	Beveridge E	10347
Bartelt H N	8111	Beals O K	10227	Bell P R	605	Berck B	5691	Bevilacqua I	1088
Bartenev F I	1240	Beamish R H	6086			Berck B	6083	Bevilacqua I	1089
Barthelmess A	10198	Beamish J E	6720			Berck B	8155	Bewick L F	5618
Bartholomew W V	2201	Bear E M	8212			Berdoucou J	737	Bezner O	7919
Bartholomew W V	2326	Bear F E	790			Bérend P	1472	Bhargava K S	608
Bartlett L E	913	Bear L K	8475			Berendes P	2061	Bhargava M P	3527
Bartlett S	4123	Beard F J	8589			Beresford R	8562	Bhat N R	1055
		Beattie J H	748			Berezovskiy A A	3697	Bhatti A K	1189
						Berg	1745	Bláklán A S	6911
						Berg B W	6557	Bianchi A	1090
						Berg G L	6834	Bianchi V A	8688
						Berg v d	4655	Bick I R C	995
						Berge S	4064	Blckoff E M	3693



Item	Item	Item	Item	Item	Item
Bidan P 7712	Blackburn S 7932	Blow C M 8904	Bondon J 6558	Bottini E 8213	
Bldard M 9679	Blackburn S 7833	Blow C M 8905	Bone D 5488	Bottum J C 9386	
Bldaud A 3169	Blackhurst H T 1658	Blue W G 743	Bonelli B 6185	Botvinik M M 6449	
Bldone M 1655	Blackie J E H 6254	Blum G W 8906	Bonett F 6463	Boubals D 1660	
Blebl R 609	Blackie J E H 6255	Boals G P 10006	Bonfante G 4118	Bouchard J 123	
Blefer K W 8080	Blackman G E 571	Boan J 1053	Bonfante G 4214	Bougard M 5491	
Blefer K W 8930	Blackman G E 2062	Board J 4627	Bonfield J P 6749	Bouget J 3044	
Bier J E 3303	Blackman G E 2063	Bobrov N 6771	Bonfiglioli H 5	Bougleux L 8633	
Bierler B W 4774	Blackmon G H 9058	Boceta V 1091	Bongiovanni G C 6256	Bouhier de l'Ecluse R 5697	
Bierman R W 9410	Blackwelder R E 10333	Böcher T W 572	Bonham-Carter V 9707	Bouma J C 9162	
Blesanz J 9680	Blackwell H L 4880	Böcher T W 610	Bonin C M 7601	Bouma Nieuwen-huis D 6800	
Bigger H H 9689	Blackwell H L 4881	Bocks S J 2634	Bonne-Wepster J 5983	Bounhiol J J 6442	
Bigger J H 5291	Blackwell H L 4882	Boddy H 1247	Bonner J 996	Bourdeau M 4527	
Biggin R E 7830	Blackwell H L 8803	Boddy H 8945	Bonner J 3361	Boudeau R 7136	
Bigl F 9256	Blackwell R F 8904	Bode C E 8334	Bonnet L 4883	Bourdelle E 4629	
Bigland C H 4775	Blackwell R L 4125	Bodman M T 5981	Bonnet L 4884	Bourdon D 2202	
Bigland C H 4776	Blagosklonov K N 10201	Boehm H 5487	Bonnevie-Svendson C 3245	Boureaux 6	
Billancourt 6767	Blagoveshchen-ski V V 251	Boer S de 744	Bonnicel C 1958	Bourgeois-Pichat J 9665	
Billig H 10073	Blaha J 1611	Boer T A de 2635	Bonnlér R 2337	Bourhis R 7281	
Billings B E 9742	Blain A 680	Boersma T 10202	Bonnlér C 3142	Bourne R F 4203	
Billings R R 8944	Blair G B 9743	Bogart R 4125	Bonnot P 3142	Bouthilet R J 8804	
Billings W A 8801	Blair G W S 7471	Bogaty H 7978	Bonoldi V 4562	Bouvier G 5296	
Binder F 9681	Blair J F 6525	Bogdan J F 7834	Bookhout B R 3702	Bovey P 5250	
Binet P 766	Blair K G 5693	Boggs H M 7472	Bookhout B R 9199	Bovey P 5698	
Binkley A M 2519	Blair K G 5694	Bogoroditskiy A V 3800	Booth F L 3503	Bowden S R 6258	
Binkley C H 8802	Blake S F 2894	Bohart G E 1068	Booth R L 4009	Bowen C V 5297	
Binkley W C 9987	Blakemore F 4201	Bohart R M 5830	Bootsma R J 4357	Bowen V T 6186	
Binkley W W 8967	Blaksley J C 6031	Bohart R M 5982	Borbolla y Alcalá J M R de la 9034	Bowering R H 5492	
Binnie L H 1245	Blanch G T 9563	Böhm F 5440	Borde M B de 8632	Bowie W D 4885	
Binns Sir B O 9587	Blanchard F A 740	Bordeleau R 5294	Borgazzi C 2636	Bowie W D 6836	
Binns W 3799	Blanchard F A 9907	Böhm C 9258	Borges P 8040	Bowman D 1133	
Binstadt 1656	Blanchard L E 741	Böhnke 379	Börgesen F 231	Bowman D H 1094	
Binstadt 1657	Blanchard M 6770	Bohren B B 4660	Börgesen F 232	Bowman F 8159	
Biörn-Hansen E 2944	Blanchard M 9589	Bohstedt G 3687	Borghetty H C 6257	Bowman F T 747	
Biraben Scott B 3557	Blanch F C 10106	Bohstedt G 4126	Borgioli E 3703	Bowman V V 8114	
Bircher R 2594	Blanco G 9350	Bohstedt G 5176	Borgmann A R 5378	Boxler B 6645	
Birchfield J 10277	Blanco R 3972	Bohstedt G 5177	Borin K 6684	Boyce A P 292	
Bird E T 9040	Blanco- 2318	Bohstedt G 7774	Borin K 9200	Boyce E B 8805	
Bird H R 3700	Macfas G 2872	Bofarski I V 5178	Borin K A 1092	Boyd A G 4204	
Birukov V A 3449	Blas L 8690	Boikov V I 5120	Borisovskii N I A 1659	Boyd D A 1961	
Birkenfeld 3380	Blasch J 6638	Boisson C 6405	Boriss K 8477	Boyd G H 9891	
Birkett N L 6253	Blaser E 4202	Boix de Méritens P de 5295	Borlaug N E 1093	Boyd H 8214	
Birmingham University 9251	Blattný C 378	Boley J 5184	Borokhov B O 1959	Boyd J M 7196	
Dept of Economics and Institutions of the U S S R 7831	Blattný C 521	Boley L E 5184	Borokhov B O 1959	Boyd R J 3635	
Birt and Co 5287	Blattný C 522	Bolhuis G G 5968	Borokhov B O 1959	Boyd W M 5273	
Birulfa N B 5287	Blattný C 523	Bolin D W 5062	Borokhov B O 1959	Boyko H 573	
Biset L 7645	Blaxland J D 4778	Bolin F M 4779	Borokhov B O 1959	Boyko H 574	
Biset L 7646	Blender J X 6066	Bolin F M 5062	Borokhov B O 1959	Boynton D 748	
Bishop J Jr 9110	Blerkom L van 3621	Bolle 4567	Borokhov B O 1959	Boynton D 748	
Bishop S C 5619	Blätkherova R M 8317	Böllhoff 4628	Borokhov B O 1959	Boynton D 748	
Bishopp F C 5292	Blicke H 8969	Bolt C D 7999	Borokhov B O 1959	Boynton D 748	
Bishopp F C 5293	Blin H 1246	Bolton J L 1300	Borokhov B O 1959	Boynton D 748	
Bishopp F C 5893	Blin H 1956	Bolton J W 4656	Borokhov B O 1959	Boynton D 748	
Bishopp F C 6362	Blin H 2456	Bolton J W 4657	Borokhov B O 1959	Boynton D 748	
Bisnovaty I S 6708	Bliss R K 3701	Bombay Registrar of Co-operative Societies 3043	Borokhov B O 1959	Boynton D 748	
Bitancourt A A 250	Bliss R K 4409	Bomhard M L 7671	Borokhov B O 1959	Boynton D 748	
Bitting H W 9102	Bloch D 5695	Bonard L 3659	Borokhov B O 1959	Boynton D 748	
Bizzozero F A 5829	Blöchl J 9198	Bonadonna T 3660	Borokhov B O 1959	Boynton D 748	
Bjarnason H 2945	Blodgett E C 524	Bonadonna T 4001	Borokhov B O 1959	Boynton D 748	
Bjerninger S 6768	Blom A 1957	Bonadonna T 4002	Borokhov B O 1959	Boynton D 748	
Black C A 2278	Blommaart W 5486	Bonadonna T 4003	Borokhov B O 1959	Boynton D 748	
Black C A 2310	Blondeau R 742	Bonadonna T 4004	Borokhov B O 1959	Boynton D 748	
Black D J G 4720	Blondeau R 768	Bonadonna T 4005	Borokhov B O 1959	Boynton D 748	
Black D J G 4777	Blondeau R 769	Bonadonna T 4006	Borokhov B O 1959	Boynton D 748	
Black I A 2250	Blondeau R 8256	Bonadonna T 4099	Borokhov B O 1959	Boynton D 748	
Black J D 9257	Blondel L 1562	Bonadonna T 5156	Borokhov B O 1959	Boynton D 748	
Black J D 9706	Blondel L 2633	Bonadonna T 4780	Borokhov B O 1959	Boynton D 748	
Black R H 8631	Blood P T 1375	Bonaduce A 4781	Borokhov B O 1959	Boynton D 748	
Black W W 6769	Bloodworth M E 6683	Boncompagni T 455	Borokhov B O 1959	Boynton D 748	
Blackburn B 1746	Bloodworth M E 6755	Bond W R 3495	Borokhov B O 1959	Boynton D 748	
Blackburn B 1747	Bloomfield H 6526	Bondarenko V A 6584	Borokhov B O 1959	Boynton D 748	
Blackburn F H B 6098	Blount C L 1133	Bondarev V P 745	Borokhov B O 1959	Boynton D 748	
Blackburn F H B 8968	Blount C L 4154	Bondarev I U F 4007	Borokhov B O 1959	Boynton D 748	
	Blount J P 8189	Bondarev I U F 4008	Borokhov B O 1959	Boynton D 748	
	Blount W P 5226		Borokhov B O 1959	Boynton D 748	
	Blount W P 5227		Borokhov B O 1959	Boynton D 748	



Item	Item	Item	Item	Item	Item
Brannan C F 7067	Briland G 290	Brooks F A 1563	Bryson H L 9911	Burrell A B 748	
Brannan C F 3078	Briant A M 10091	Brooks M 4782	Bryson H R 6399	Burris R H 1044	
Brannan C F 9149	Brichambaut 2415	Brooks R P 3269	Buchanan M C 9746	Burroughs R J 9100	
Brannan C F 9260	G P de 6685	Brooksby J B 5179	Buchanan W J 5985	Bursby W H 10010	
Brannan C F 9261	Brickwood H 8693	Broom R C 1251	Buchanan-Smith 4015	Burson L 9748	
Brannan C F 9262	Bridge R E 2839	Brouard J 2118	Buchdahl R 8932	Burst J F Jr 2255	
Brannan C F 9263	Bridger G L 2840	Broughton A 6726	Buck J L 9322	Burt H B 7556	
Brannan C F 9264	Bridges B 9910	Broughton A 7475	Buck L J 753	Burt S W 8276	
Brannan C F 9265	Bridgford R O 2183	Brouse E M 4285	Buckley M S 5300	Burtis E L 8698	
Brannan C F 9266	Brierley P 291	Broussard A E 5701	Buckner C R 4325	Burton D 8634	
Brannan C F 9397	Brierley R G 8694	Brouwer E 4127	Budagovskiy V I 754	Burton H B 10171	
Bransome E D 10374	Briggle L W 1185	Brower T 7476	Budde 4358	Burton J C 2319	
Branson H 4782	Briggs F N 383	Brown B F Jr 3587	Budko A I 6658	Busch A 9413	
Brantzka A 2595	Briggs P S 8591	Brown B 1432	Budnyi A V 8971	Busch L V 384	
Brasington C J 7114	Briggs R C 8612	Brown C 2067	Budowski P 8695	Buschman D M 4138	
Jr 7937	Brigham D 2117	Brown C B 2750	Bugasova Zh P 1097	Buschner F A 4376	
Brasseur G 2637	Bright M L 9686	Brown CH 8563	Buhle 9747	Bush F A 1754	
Bratton C A 9267	Bright R 4886	Brown D A 2253	Bührer N E 8696	Bush L J 4016	
Bratton R W 4010	Bright W J 7776	Brown E H 2270	Buining A F H 126	Bush R 1614	
Bratton R W 4104	Bright W J 8946	Brown E H 8582	Buisman B 1252	Bush R 5620	
Braude R 5157	Brimblecombe 6261	Brown ES 6407	Bujan J 6902	Bushnell J 2461	
Braun E L 3009	Brindley T A 5298	Brown GF 9947	Bukh N L 8319	Bushnell L D 4785	
Braun F 7283	Brink B E 5493	Brown H D 2460	Bukin V N 4745	Bushnell T M 2371	
Braun H 289	Brink R C B 116	Brown J P 4413	Bukshtynov A D 2119	Busk K 9749	
Brauns A 5699	van den Jr 7473	Brown JR 125	Bullard J F 4206	Buss E G 4660	
Bravo A F 2116	Brintzinger H 7838	Brown NC 3401	Bulle E 8015	Buss W E 1755	
Bravo Hollis H 124	Brintzinger H 751	Brown NI 3121	Bullis D E 1013	Buster M 8907	
Bravyi Z 7917	Brisson G J 4721	Brown P L 2254	Bulygin V A 3247	Buster M W 8610	
Brazil Conselho 7248	British Columbia 6720	Brown R 2329	Bundesanstalt 9912	Bustrillos A D 8071	
Nacional de Estatística	Dept of Agriculture 9268	Brown RH 4014	für Alpine Landwirtschaft	Busurin IA A 5121	
Brazil Serv de Estatística	British Columbia Dept of Finance 7839	Brown RL 1292	In Admont	Butaye R 4017	
Económica e Financeira	British Cotton Industry Research Association 8485	Brown S 7941	Bunge S 1753	Butijn J 2416	
Breakey E P 525	Shirley Institute 9268	Brown T T 8906	Bunker H J 7284	Butkevich V V 2928	
Breakwell E J 2459	British Food Manufacturing Industries Research Association 9268	Brown W F 4491	Bunnell D E 5186	Butler C 5498	
Breazeale C 9744	of Animal Production 7839	Brown WL 1096	Buonaiuto G 9590	Butler K D 7069	
Brecher J 1248	Britto S 4658	Brown WL Jr 6188	Burchalow F V 1226	Butler O D 8970	
Bredijk N N 9201	Britschgl H 4802	Brown WO 4722	Burch B J Jr 4175	Butovskiy V 2462	
Breed W R 7121	Britt W A 7474	Browning G M 2200	Burdin M G 3996	Butovskiy V 2463	
Breider H 612	Britton D K 9589	Brozek J 10093	Bure J 7193	Buttig M 9451	
Breimyer H F 9490	Brückhanenko A N 5494	Brozzetti P 4723	Buresch 3248	Büttner O 5301	
Breirem K 1249	Brückhanenko S A 3400	Bruce H M 4649	Sagner O 8810	Butyrina P F 3705	
Brekke J E 8215	Brücke A 7840	Bruce WN 5299	Burger H C 8249	Buzi V C 1253	
Brekke J E 8216	Broadbent D A 9563	Bruce WN 5833	Burger I J 8697	Buzi V C 1254	
Bremer A H 749	Broadbent F E 2201	Brückner O 5496	Burger W W 7194	Buzin N P 681	
Bremer H 380	Broadbent F E 2252	Brues CT 5943	Burgess A H 961	Buzzard C R 2370	
Bremer J 4012	Brock W E 4228	Brues CT 6090	Burgess A H 2120	Buzzati-Traverso A 10204	
Brenac L 3081	Brockington S F 8318	Brugarola M 9682	Burgess R W 5986		
Brender E V 9567	Brockway J H 7408	Bruggemann H 3704	Burgmans H 1612	Byers G B 1474	
Brener W H 2895	Brodie F A 10009	Bruggemans R J 6773	Burgsdorff J V 3045	Byrne R J 7070	
Brener W H 3246	Broekhuysen A van 4528	Brugman H H 5031	Burgues S A 6892	Bystrova A S 6774	
Brennan A D J 4205	Broen M 1750	Bruin H de 9412	Buri H E 4659		
Brennan E G 750	Bröker W 5495	Brumbl D 9035	Burke E 481	Caballero 293	
Brenner G N 2530	Broman R 1054	Burke J P 3320	Burke J P 3320	Vásquez C 3706	
Brenner WG 6772	Bromfield L 6970	Burke M H 2902	Burke MV 7033	Cabanilla C E 8015	
Brentlinger P D 3450	Bromley S W 5832	Burkey L A 4325	Burkey L A 4325	Cabasson F 8015	
Bresler R 10074	Bronson D E 6756	Burkholder G 7747	Burke L A 7747	Cabral A 1098	
Bretherton R F 6259	Brook A T 2857	Burkhart L 8016	Burkholder C L 1613	Cabrera J I 4171	
Bretherton R F 6260	Brooke D L 9523	Burkholder PR 885	Burkholder PR 885	Cabrera S G 1255	
Brethour C L 7555	Brookman B 5984	Burkitt WH 5070	Burkholder PR 885	Caddow H A 7285	
Brethouy L 1095	Brooks B B 3995	Burke H 5845	Burkholder PR 885	Cader M H M A 6034	
Bretigniere L 6750	Brooks C J 6262	Burke L A 7747	Burkholder PR 885	Caestecker K de 2383	
Breton J F 1962		Burke L A 7747	Burkholder PR 885	Caffrey D J 5302	
Breton R 1962		Burke L A 7747	Burkholder PR 885	Cailloux M 613	
Bretschers A 4783		Burke L A 7747	Burkholder PR 885	Cain J C 748	
Brett C H 6406		Burke L A 7747	Burkholder PR 885	Cain R F 252	
Bretz T W 381		Burke L A 7747	Burkholder PR 885	Cain R F 8217	
Bretz T W 382		Burke L A 7747	Burkholder PR 885	Cain T L Jr 5995	
Breuning S 5700		Burke L A 7747	Burkholder PR 885	Caire J 8484	
Breviglieri N 1523		Burke L A 7747	Burkholder PR 885	Cairns A 9913	
Brevot G 3828		Burke L A 7747	Burkholder PR 885	Calavo Growers 10075	
Brew M L 10348		Burke L A 7747	Burkholder PR 885	of California 294	
Brewer J A 8617		Burke L A 7747	Burkholder PR 885	Caldwell R M 294	
Brezhnev D D 1963		Burke L A 7747	Burkholder PR 885	Caldwell S 1756	
		Burke L A 7747	Burkholder PR 885	Caldwell W A 7195	
		Burke L A 7747	Burkholder PR 885	Calhoun S L 5708	
		Burke L A 7747	Burkholder PR 885	California Bur 7071	
		Burke L A 7747	Burkholder PR 885	of Markets 8115	
		Burke L A 7747	Burkholder PR 885	California Bur 8115	
		Burke L A 7747	Burkholder PR 885	of Markets	



	Item		Item		Item		Item		Item
California Bur of Markets	8116	Canada Bur of Statistics	3012	Canadian Pulp and Paper Association	3530	Carrera M	5835	Ceccarani L	9591
California Dept of Agriculture	10205	Industry & Merchandising Div		Canadian Short-horn Association	4019	Carrick L L	8700	Ceccarelli A	5073
California Fig Institute	1564	Forestry Sect		Canciulli S	2122	Carriero W F	8704	Ceccarelli V	296
California Fig Institute	1565	Canada Dept of Agriculture	385	Candioli P	2640	Carriker M A Jr	6464	Ceccarelli V	390
California Grocers Association	7072	Canada Dept of Agriculture	1473	Candioli P	7073	Carrion P	6775	Cella F	4439
California State Dept of Public Health	5987	Canada Dept of Agriculture	1664	Cangialli A	7412	Carse G M D	5141	Celorio	3217
Bur of Vector Control		Canada Dept of Agriculture	1665	Cannon F M	5703	Carson B L	4630	Martinez A	
California University College of Agriculture	9530	Canada Dept of Agriculture	2004	Cannon R C	6261	Carson N C	7286	Centro Nacional de Agronomia	1984
Agricultural Extension Serv		Canada Dept of Agriculture	7672	Canon F W	7602	Cartanya y Aleu P	4889	Centro Nacional de Agronomia	6617
Calisti V	5072	Canada Dept of Agriculture	7673	Canterbury Chamber Commerce	5063	Carter D	7813	Centro Nacional de Investigaciones de Café	2124
Calibek L C	385	Div of Bacteriology and Dairy Research		Capinpin J M	1964	Carter D G	6869	Cermák K	3090
Callmeri M	10154	Canada Dept of Agriculture	9270	Capriles J M	6038	Carter E G	7847	Cernowsky W	9079
Callow E H	9485	Canada Dept of Agriculture		Capstick E	7413	Carter H	9752	Černý L	1525
Calma V C	1255	Information Serv		Capucci C	1615	Carter H F	5988	Cerveira	7289
Calvert W A	6613	Canada Dept of Agriculture	4887	Capuler B	1256	Carter H F	5989	M F da C	
Calvet E	10386	Canada Dept of Agriculture		Capuler B	1965	Carter J	5230	Cervl V	8320
Calvino E M	755	Livestock and Poultry Div		Carapeto	6559	Carter J F	1966	Cevallos	1257
Calvo C A	5032	Canada Dept of Agriculture	5703	Burgos R		Carter K I	10077	Cueva N	
Calvo de la Torre J	10157	Science Serv		Carayon J	6092	Carter R H	7006	Ceylon Rubber Research Board	2125
Calzeczchi-Onesti A	10011	Div of Entomology		Carbonnier C	3167	Carter W A C	6265	Chace L M	6266
Camandona D	3011	Canada Dept of Agriculture	6084	Carbouère M	991	Cartter J L	1438	Chadburn R W	6833
Cámara A	756	Science Serv		Cardinal P J	10155	Carvalho E L de	6465	Chadefaud M	614
Cámara A de A	8908	Div of Entomology		Cardon P V	10406	Carvalho T de	388	Chadwick T A	2929
Cámara Oficial Sindical Agraria de Barcelona	6248	Canada Dept of Agriculture	6246	Cardoso A	3122	Carver W A	1433	Chaffin W	1099
Camargo F C de	9568	Science Serv		Cariza R A	6560	Casals J	6066	Chakravarti B N	6267
Camargo R de	10279	Div of Entomology		Carl	7674	Casarosa L	4787	Chakravarti D	3604
Camargo N F	3801	Canada Dept of Agriculture	2947	Carl L M	3707	Casey J	7848	Chalard A du	132
Cambridge Co-operative Dairy Co	7557	Resources and Development		Carlier L	7768	Casey R S	7889	Chalker J W S	4208
Camenzind T	3802	Forestry Br		Carlisle L A	1666	Casós G A	3803	Chambard P	8636
Cameron A E	6091	Forest Research Div		Carlisle G R	7558	Cassidy M A	2123	Chambellan P	7136
Cameron E	6189	Canada Dept of Agriculture	3155	Carlisle G R	5228	Castano A J J	389	Chamberlain R W	5622
Cameron E	8635	Resources and Development		Carlisle G R	5229	Castellani E	295	Chamberlain R W	5836
Cameron E J	8972	Forestry Br		Carlo J A de	6093	Castell F	7287	Chamberlain R W	5990
Cameron H L	2121	Forest Research Div		Carlson C W	889	Castell G	5303	Chamberlain F S	5304
Cameron J L	10076	Canada Dept of Agriculture	3219	Carlson N K	2824	Castellini A	7288	Chamberlin R V	5623
Camfferman J	1683	Resources and Development		Carlson R B	5398	Castelló	4890	Chamberlin V D	4929
Camirand R	7411	Forestry Br		Carlyle R E	2068	Carreras S		Chambers B	1758
Camp A F	1566	Forest Research Div		Carlyle R E	8699	Castro M P de	9446	Chambers J B	1567
Camp A M	8309	Canada Dept of Agriculture	3226	Carmichael J	8486	Castro M P de	4597	Jr	
Camp B	9750	Resources and Development		Carneiro V	4207	Castro Silva J M	6971	Chamblee D S	1258
Campanile S	2256	Forestry Br		Carneiro	7414	Castro Silva J M	9271	Chamblee D S	1812
Campbell C	9683	Forest Research Div		Filho J J		Catalina L	757	Chambre d'Agriculture de l'He	10206
Campbell J D	6727	Canada Dept of Agriculture	3232	Carnevale J A	1667	Catalina L	2464	Maurice	
Campbell J L	6263	Resources and Development		Carnevale J A	3249	Catel W	10156	Champeval	3708
Campbell K	7845	Forestry Br		Carney M	10350	Cathelnaud R	6561	Champlain A B	6466
Campbell L	525	Forest Research Div		Caro Pardo R	1193	Catron D	5158	Chan A P	657
Campbell R B	2229	Canada Dept of Agriculture	3232	Carollis V de	4360	Cauchy L	5219	Chan A P	759
Campbell R S	3216	Resources and Development		Carolus R L	2641	Cauchy L	5220	Chan A P	1759
Camper H M	2292	Forestry Br		Carolus R L	8118	Causey K	8218	Chan A P	9059
Campos J	4724	Forest Research Div		Caron A	5790	Cauwenberghe E van	8200	Chanda S K	7850
Campredon J	3464	Canada Dept of Agriculture	1664	Caron A M	8294	Cavaceppi L	5621	Chandler A	615
Campredon J	3465	Experimental Farms Serv		Carpelan G	3381	Cavaco A	130	Chandler S C	5704
Campredon J	3496	Canada Experimental Farms Serv	1665	Carpenna O	9014	Cavaco A	131	Chandler S C	6268
Camus A	127	Canada Experimental Farms Serv		Carpenter B	4020	Cavanaugh J F	4021	Chandramouli K	9112
Camus A	128	Canada Experimental Farms Serv		Carpenter C D	8808	Cavanillas Rodriguez L	2642	Chandraratna	2552
Camus A	129	Canada Experimental Farms Serv		Carpenter D J	4888	Cavazza L	1967	M F	
Canada Bur of Statistics	7249	Canada National Museum	104	Carpenter E M	9532	Cavin J P	7849	Chaney C M	8017
Canada Bur of Statistics	8948	Canadian Ayrshire Breeders' Association	4018	Carpenter E M	9539	Cavina R	6776	Chang I	8701
Agriculture Div				Carpenter F	7998	Cawein M	4583	Chang T K	5033
				Carpenter G D H	6264	Cawein M	5086	Chanishvili Sh F	1453
				Carpenter P N	2365	Cawein M J	4614	Chaplin C E	7676
				Carpentier F	5251			Chaplin P	1760
				Carpentier M	5251			Chaplin P H	1761
				Carpio F	9751			Chapman A J	6269
				Carr A K	4786			Chapman C J	2465
				Carraway R S	7846			Chapman F B	10207
				Carrera C J M	386			Chapman H D	2252
				Carrera C J M	387			Chapman H H	3082
								Chapman H H	3143
								Chapman L C	2471
								Chapman P W	2752
								Chapman P W	8321
								Chapman R A	8457



<u>Item</u>	<u>Item</u>	<u>Item</u>	<u>Item</u>	<u>Item</u>	<u>Item</u>	<u>Item</u>
Chapman R K 5305	Choussy F 1570	Clements R W 3576	Collings M L 9758	Connecticut Com-7604		
Chapman W H 1100	Chow C Y 5991	Clendenan E F 3531	Collins J C 1475	missioner of		
Chapuis J 5340	Chow T 5074	Clendenning K A 1005	Collis-George 2643	Food and Drugs		
Charbonneau A 9272	Chowdhury J K 7852	Cler G O 3710	Colmenero M L 7291	Connecticut Com- 7605		
Charbonneau R P 4022	Chowdhury N K 4260	Clérin 2645	Colb B 3013	missioner of		
Chard R 3402	Christensen E J 6870	Cleveland C R 5307	Colombia Direc- 7251	Food and Drugs		
Charenton J 4326	Christensen P 6871	Clevenger H M 7266	ción General de	Connecticut		
Charlier A 7851	Christensen 6272	Cliffcorn L E 7196	los Censos	State Geological		
Charton A 3804	P J H	Clifford P A 7039	Colombia Con- 10013	and Natural		
Charton A 3919	Christensen R P 8509	Clinch F A 1763	tralorfa Gene- 7251	History		
Chashkin M I 3218	Christensen S K 7603	Clinch F A 2069	Colón S 2126	Survey		
Chastain J V 9150	Christian W E 7177	Cline M G 2385	Colón Torres R 3274	Connell J J 8073		
Chatillon A H 2417	Christiansen H 617	Cloaninger B D 2849	5942	Connell R 4792		
Chatterjee S N 4807	Christie A 8334	Clot F 6687	Colonial In- 5942	Connolly H H 3451		
Chatterjee S N 6144	Christie T G 6915	Cloud H R 8219	secticide Re- 5942	Connolly H H 3522		
Chaturvedi M D 2948	Church G P 5142	Clouet 4569	search Unit	Connelly M 4024		
Chaumier P 6914	Chudakov D 6777	Clough M 7777	Entebbe	Conner J D 8160		
Chausson H 10280	Chumakov S 2950	Clough R S 9755	Colovos N F 3807	Conner M C 7647		
Chavan L M 7290	Chumakov S 2951	Clune R M 2596	Colwell R C 3163	Connolly E G 2756		
Chavan V M 1055	Chun C K 1101	Clydesdale C S 1105	Colwell W E 2469	Conover A G 9036		
Chaves J M 9072	Churaev V M 2754	Clydesdale 4529	Coman E S 9151	Consejo Inter- 2452		
Chebotaiev I K 3403	Churchill J R 8288	Horse So- 5122	Combai H 6640	americano de		
Cheema P S 6270	Chvátal O 3845	society of Gt 5122	Combai H 6778	Comercio y		
Cheffel H 7136	Chwalibog J 4568	Britt and 4529	Combai H 6779	Produccion		
Chekmeneyvm 2753	Chwojnowski A 4209	Ireland 4529	Comben N 4440	Consiglio C 6469		
E M	Ciaccio G 5254	Coates G M 9534	Comben N 4441	Conway H M 8489		
Chen C S 9641	Ciampi B 6872	Cobb L L 7853	Comber J 1765	Conway H M 8490		
Chen P S 5865	Ciani G 4725	Cobb R M 6154	Combes R 766	Conway H M 8564		
Chen P S 8637	Clarrocca V 9592	Cobin M 1572	Comerio N H 1106	Cook A H 9060		
Chen S L 8632	Ciccarone A 504	Coblentz J F 3424	Comissão Re- 8322	Cook C W 1263		
Cherbuliez E 7677	Ciccarone A 618	Cobo Sierra E 5122	guladora dos	Cook H T 8119		
Chernenko E S 760	Cidraes A 1261	Coca E A 1764	Cereais do Ar- 6408	Cook J W 7007		
Chernetchenko V S 1969	Ciferri R 526	Cocannouer J A 2467	quipélago dos	Cook R H 4285		
Chernomaz P 1259	Ciferri R 763	Cocannouer J A 2468	Açores	Cook R L 2280		
Chernomaz P A 8949	Ciferri R 9533	Cochran A R 2961	Comite Interna- 6408	Cook S F 5844		
Chernov G G 6583	Cincinnati Uni- 5306	Cochran G W 557	cional de Coordi- 6408	Cooke F C 299		
Chester K S 2466	versity College 5306	Cochran K 4530	nación para el 6408	Cooke F C 5308		
Chevalier G 616	of Medicine	Cochran L C 527	Combate de la 6408	Cooley R A 10282		
Chevallard A 1194	Kettering Labo- 616	Cochran L C 528	Langosta 6408	Coolidge J H 9446		
Chevedaev A K 3636	ratory 616	Cockayne E A 6274	México y Cent- 6408	Coop I E 3808		
Cheyne O B M 1568	Cintron G 9000	Cockayne E A 6275	tro America 6408	Coop T E 5063		
Cheyroud M 3876	Ciolina F 6563	Cockayne E A 6276	Common R H 4791	Cooper A R 8438		
Cheyroux M 4586	Cisneros L 6946	Cocke R P 2292	Compagnon P 2470	Cooper A R 8438		
Chiang H C 6271	Claassen C E 764	Cockman B 4023	Compagnon P 8909	Cooper D H 8910		
Chicago Uni- 9080	Claassen C E 5405	Coda D 5993	Complin J O 5641	Cooper G W 4211		
versity Off of	Claassens C C 8487	Codo V 3805	Compton O C 748	Cooper J F 3809		
Agricultural	Clancy L 4492	Codo V 3806	Concha A A 1972	Cooper M M 9535		
Economics Re- 3662	Clapp A L 1102	Coffey J S 5143	Conci C 6467	Cooper P 4531		
search 3662	Clapp A L 1103	Coffey R E 10184	Conde B 5624	Cooremans A 1766		
Chieffi A 4335	Clara F M 1971	Coffin R F 9756	6468	Copeland L 4363		
Chieffi A 4361	Clarenburg A 7122	Cognetti de 1262	Condit I J 682	Coppens R 7479		
Chifflet R F 4631	Clarenburg A 8810	Cognetti de 1262	Condit I J 1573	Corbet A S 6279		
Chigrai Z T 1668	Clark A M 5897	Cohen A 765	Condon M M 9759	Corbry M U 10283		
Child R 1569	Clark B S 8616	Cohlmeier R C 6873	Confederación 9914	Cordiez E 4025		
Childers L E 6562	Clark D H 10281	Coile T S 3168	de Asociaciones 9914	Cordiez E 4130		
Childs E C 2643	Clark F E 2320	Coker J A 9757	Rurales de 9914	Cordiez E 4212		
Childs J F L 761	Clark F L 6639	Colassurdo O 8702	Buenos Aires y 9914	Cords H P 2471		
Chilean Nitrate 2858	Clark G 10095	Cole J R 297	La Pampa 9914	Coring H 2903		
Educational	Clark J A 1104	Cole R K 4670	Confederazione 6972	Corke C A 1767		
Bur 4210	Clark J C 5648	Cole S H 3123	Generale 6972	Corleto 3083		
Chilton S J P 2100	Clark J C 6269	Coleman N T 2257	dell'Industria 6972	Aragón E A 3124		
China W E 6094	Clark L M 3558	Coleman S D 6874	Italiana 6972	Corleto 3124		
Chiocci A 9273	Clark R 4210	Coles R 4726	Conference on 8488	Aragón E A 1107		
Chirikov I F 762	Clark R T 4152	Coles R 4798	Research 8488	Corn Improvement 1107		
Chirkov G N 6686	Clark S D 7114	Collado L 5075	University of 8488	Conference 1107		
Chirkova T V 1324	Clarke J F G 6273	Collart A 5838	Chicago 8488	North Central 1107		
Chizhikov N V 1260	Clastrier J 5837	Collenette C L 6277	Confederencia 298	Region 1107		
Chmel L 3892	Clauder H 10407	Collenette C L 6278	Interameri- 298	Cornell L 9037		
Chmora N A 1970	Claus F 1571	Coller S G 7074	cana de Sani- 298	Cornwall R R 7858		
Chodrishvili I I 2949	Clavé H 1669	Colless D H 5992	dad Vegetal 298	Coronat F 6973		
Chomyszyn M 6614	Claver G 8932	Collet A 4457	Congrès Inter- 10208	Corradi R 133		
	Clawson M 2644	Colley D G 7197	national de 10208	Correa R R 5993		
	Clay Sir H 10012	Colley D G 8220	Zoologie 10208	Correia E M 8221		
	Clay L 4129	Collier J W 1077	Congrès Nation- 4362	Corrias A 4213		
	Clayton C B 10078	Collier W A 4789	al de Zootech- 4362	Corrias A 4214		
	Clayton E S 2755	Collier W A 4790	nie Bovine 4362	Corrie F E 3711		
	Cleland S B 3709	Collin J E 5839	Conklin J G 1994	Corry J R 7415		
	Clements 7250	Collin J E 5840	Conlogue R M 8138	Corte H 7728		
	Clements J 1762	Collin J E 5841	Connecticut Com- 7292	Cortez J A 7854		
	Clements P G 7678		missioner of 7292	Cortés J A 5500		
			Food and Drugs 7292			



	Item		Item		Item		Item		Item
Cortes Muñoz V	9034	Crawford J R	5501	Curtis C H	2127	Dana A S	5165	Davis N	9763
Corticelli B	4570	Crawshaw H A	4468	Curtis H G	2716	Dancaster E A	2071	Davis O S	4793
Cortin B	1973	Crépet J	766	Curtis J D	3169	Danfel'd P	1529	Davis R C	7834
Corvazier R	3876	Crevasse J M	1768	Curtis L C	1975	Daniel W H	2476	Davis W C	4188
Corvazier R	4586	Jr		Curtiss W M	7158	Danielfan D O	7299	Davis W S	2761
Coryell M N	10116	Crêvecoeur A	6190	Cury R	5502	Daniels L B	6097	Davis W S Jr	2760
Cosline H	1264	Crickman C W	9491	Custer J H	7523	Danielson L L	5638	Davis W S Jr	2761
Cosma G	7606	Crins W H	1616	Cuthbertson D P	10408	Dannemann R	9315	Davison J R	747
Cosmo I	7293	Crins W H	1617	Cutkomp L K	5994	Dannik S	3250	Davydov L	6780
Cosmo I	7294	Cripe R W	3170	Cutkomp L K	6280	Dannreuther T	6283	Davydov P N	254
Cossette M	9415	Cripps E G	961	Cutkomp L K	6281	Danschinskij A T	5232	Dawes E A	772
Costa A	4563	Crisler O S	4276	Cutright C R	5625	Dansk Hede-	10209	Dawes J C	6950
Costa A S	300	Cristel J P R	8267	Cutright C R	6096	selskab		Dawson E H	8224
Costa C da	3014	Critz J E	2758	Cutright C R	6282	Dansk Piledyr-	2952	Dawson R B	1775
Costa Filho P	4442	Crivelli P A	7607	Cuynet P	223	kerforening		Dawson R C	2597
Costa-Rodrigues L	2850	Croce F M	1575	Cuzin J	553	Danske Mejeri-	7769	Dawson R F	8
Constantini M	2904	Croce F M	1719	Cyprus	10014	foreningers		Dawson T R	6470
Constantino I N	3046	Crockett F S	9760	Czajkowski J M	10082	Faellesorgani-		Day G H	10016
Coste R	9275	Crockett S P	1237	Czeratzki W	1464	sation		Day G M	9
Coste W	9536	Crockett S P	4154			Kontoret for		Day G M	3170
Costin A B	2757	Crook H C	1769	Dąbrowski T	8551	Mejeri-Statistik		Day L	3466
Cotton R T	5309	Crooks H	8704	Dack G M	8555			Day M F	6409
Cotton R T	5310	Crosby J	392	Dacombe U	6875			Day W C	407
Cotton R T	5343	Crosfield P	4215	Dadant R	303	Danvig A M	1773	Dayton W A	10
Cotton W P	7540	Crosfield P	4443	Dadswell H E	675	Danvig A M	1977	De Alencar J	2349
Cottrell L G	3532	Crosman R	7138	Dadykin V P	770	Dark S O S	620	Dean G W	2953
Couch J R	4727	Crosman R	7139	Dadykin V P	771	Darlington P J	5706	Deay H O	6287
Couch J R	4728	Crosman R	7199	Daepp H P	1485	Jr		Deay H O	6380
Coulson E J	7480	Cross E	6916	Dagley S	772	Darlow H M	6284	DeCamp D	4446
Coulter F C	1974	Crow W C	7075	Dahl A H	6062	Darlow H M	6285	Decker C W	7683
Cousins R F	6066	Crowde D H	4614	Dahl E	253	Darrovskikh I A	3405	Decker G C	5314
Coutanceau	1526	Crowe G B	6564	Dahlberg A O	7680	Darrah L B	8813	Decker G C	6242
Coutinho J de M	1195	Crowell B	6917	Dahlgren K V O	619	Darton D E	9537	Decker G C	6288
Couvreux F P	3969	Crownson R A	5705	Dahm P A	5378	Darton T H	4661	Decker G C	6410
Cover S	8870	Cruess W V	8223	Dahmen H	3811	Das D B	8705	Decker J	2399
Coverdale J	7778	Cruikshank J W	3533	Dalgile J	9762	Das D B	10210	Deckmann O	6903
Cowan J C	8703	Cruz C S	3663	Dail H M	5162	Dastane N G	1576	Dederer M	8567
Cowden T K	9276	Cruz R	9113	Daily F K	233	Daubert B F	8774	Deelder J C	4662
Cowgill G R	10079	Cruzado H J	854	Daily F K	234	Daubert B F	10083	Deering F J	684
Cowgill G R	10080	Cuba Ministerio de Defensa Nacional	4532	Daines R H	750	Dauernhelm M A	1774	Deering F J	4892
Cowland J W	6095	Ejército		Dairy Industry Insurance Agency	3152	Dautov A G	5503	Degener O	216
Cowley W R	1197	Cugnini	3664	Dakow M P	773	Davenport R W	9280	DeGraff H F	9081
Cowley W R	6683	Cullen M O	8566	Dakshinkar P K	4216	Davey B L	10184	DeGruy I V	7933
Cowley W R	6755	Culpin C	6565	Dalbrow K	683	Davey D G	3812	Dehm J E	2479
Cox A B	7855	Cummings M B	1770	Dale L K	1670	Davault L	6286	Deicher P G	2128
Cox A B	7856	Cummings M B	2472	Dale L K	1976	David A	6010	Deichmann W B	5306
Cox C	7137	Cunha A B da	5845	Daley C J	8670	Davidov R	10158	Deitemeyer C	304
Cox C B	8565	Cunha O R da	6566	Dalfsen J W	8911	Davidow B	5311	Dekatov N E	3220
Cox G A	7679	Cunha T J	3714	Dallin A M	9277	Davidson H R	1268	Dekeyser W	2259
Cox H L	8323	Cunha T J	3810	Dalla Valle J M	7858	Davidson L R	5233	Delannoy G	720
Cox L	6757	Cunha T J	4132	Dalling T	4205	Davidson R H	6191	Delano C	3916
Cox W L	8938	Cunha T J	4137	Dalling T	4403	Davies J L	8582	Delasnerie J	6670
Cox W S	8973	Cunha T J	4138	Dallyn S L	2101	Davies R O	1269	Delatouche	3917
Craddock T H	6527	Cunha T J	4139	Dalmasso G	2475	Davies W	1270	Delatouche R	10294
Cramer O P	3321	Cunha T J	5144	Dalmasso G	7296	Davies W M	2258	Delattre R	6098
Crampton E W	3712	Cunha T J	5159	Dalmasso G	7297	Davila M A	7682	Deleau J	8324
Crampton E W	4650	Cunha T J	5160	Dalmasso G	7298	Davis C L	4444	Delecour F	997
Crampton E W	10081	Cunha T J	5161	Dalmasso G	9278	Davis E A	883	Deltisle R	2931
Crandall B S	301	Cunha T J	5231	Dalmasso G	9279	Davis H A	7779	Deltisle R	2954
Crandall B S	391	Cunha T J	8651	Dalmasso G	9666	Davis J C	2759	Dell A	8811
Crane B K	1265	Cunningham C R	302	Dalmasso G	9279	Davis J F	2477	Delmonte J	7140
Crane H H	1527	Cunningham I J	2355	Dalmasso G	9666	Davis J F	2646	Delom B	9918
Crane J C	742	Cunningham I J	2356	Dalmasso G	9279	Davis J G	6918	DeLong D M	6099
Crane J C	767	Cunningham R H	393	Dalmator A B	3404	Davis J G	6615	DeLong D M	6100
Crane J C	768	Cuny L	1528	Dalrymple A J	8018	Davis J J	7481	Delorme C	3282
Crane J C	769	Curasson G	3665	Dalton L K	3504	Davis J J	294	De Lucca C	6289
Crane J C	1574	Curlini Galletti A	2372	Daly E G	3219	Davis J J	5312	De Lucca C	6290
Crane J C	8256	Curlini Galletti A	2473	Daly J A	7859	Davis J N	1271	Demarfa Massey	2418
Crasmann E	3713	Curlini Galletti A	2474	Daly R F	9145	Davis J P	4731	D	
Cravenna E	7295	Curlini Galletti A	2474	Dam W van	7681	Davis L	7076	Demaux G	7532
Cravens M E	8201	Curlini Galletti A	2474	Damast J Z	774	Davis L	7077	De Meillon B	6471
Cravens W W	4729	Curlini Galletti A	2474	Dame	2070	Davis L	9281	Dement'ev P I	3251
Cravens W W	4730	Curlini Galletti A	2474	Dameron Z C Jr	1267	Davis L H	9416	Demers J M	4732
Cravioto O Y	10157	Curtis C H	1266	Damme R C L van	7860	Davis L L	7692	Demeter K J	7684
Cravioto R O	10157	Curtis C H	1771			Davis L L	7693	Demidov A I	2905
Crawford A	1108		1772			Davis L L	8074	Demolon A	2321
Crawford B	2354							Demolon A	2478



Item	Item	Item	Item	Item	Item
Demortier G 2189	Diachun S 529	Dolgushina N A 3996	Drost J C 686	Dutilly A 15	
Dempsey D 4114	Diakov F 5627	Dolidovich I 6781	Drozov N I 6688	Dutt N 5320	
Demusenko A I 428	Diakov F A 3716	Doll E R 4795	Drouin G 9284	Dutt S 3622	
Dencker C H 9417	Diaz N 9764	Doll R J 9446	Druce P C 8670	Duttlinger E 4894	
Denffer D von 775	Diaz Barriga 2762	Dollé 1056	Drury A R 4574	Dutton H J 1017	
Denis J 5626	J 4571	Dollear F G 8396	Dryden G E 5234	Dvoriankin F 10285	
Denisov A K 3171	Diaz Ungria C 2373	Dollear F G 8695	Dubbell R W 5022	Dwyer C H 1273	
Denmark Land- 9919	Diaz Vial C 2374	Dolman J Jr 1778	Dubbell R W 8621	Dyck van 4222	
brugssraadet	Diaz Vial C 2374	Domanski E 5163	Dubi P 9114	Dyer B W & Co 8975	
Denmark Statens 3715	Dick R G 6528	Domenichini G 5317	Dubin A 7867	Dyke G V 1961	
Foderstofkon- 3715	Dicke F F 6292	Domingues O 4365	Dubin V B 5628	Dykstra K G 7201	
trol	Dicke R J 5316	Dominick C B 5707	Dubois P 8225	Dyson C H 7868	
Denmark Statens 5315	Dicke R J 5847	Domizio G di 5180	Dubois R 10139	Dzhilovian Kh A 4576	
Forsogsvirk- 5315	Dickerman R M 9765	Donat A 4219	Dubois R 10140		
somhed	Dickey R S 778	Donee L D 2648	Dubois R 10141		
Denmark Statens 1978	Dickey R S 779	Donham C R 3814	Du Chanois F R 6367	Eadie W R 307	
Forsogsvirk- 1978	Dickins D 7078	Donham C R 3815	Du Charme E P 1539	Eakin E 6861	
somhed i Plante- 1978	Dickinson H 6837	Donisthorpe H 6192	Duck R W 8594	Eakin R E 1046	
kultur	Dickson A 9920	Donisthorpe H 6193	Duckworth J 3719	Earhart R W 394	
Denmark Statens, 3970	Dieckmann W 9061	Donker-Voet J 3816	Ducoff L J 9203	Earland C 7813	
Husdyrbrugsud- 3970	Dietterich C W 3505	Donker-Voet J 4220	Ducoff L J 9204	Earle F R 8358	
valg	Dietz A T 4733	Donoso M 4796	Du Courtills A 1082	Earle W 8813	
Landøkonomisk 3970	Diez Canseco O 7865	Doolittle S P 305	Du Courtills A 1111	Earley D 2358	
Forsogslabora- 3970	Dignan E 9146	Doorenbos J 212	Dudley A 6839	Easley G T 4029	
torium	Dijkstra N D 3717	Doorme H 4366	Dudley D I 2491	Easson L 9402	
Denmark 9171	Dijkstra S J 11	Dorlon P A 10284	Dudman R A 6792	Easterbrook B 2075	
Statistiske Dept 9171	Dilatash T J 1777	Dormon C 1779	Duensing M E 7877	Easterbrook L F 5321	
Denning D G 5946	Dilks E 5968	Dörner H 8326	Duetz W B 9420	Eaton F M 782	
Denning D G 6472	Dillemann G 134	Doron P H 2649	Duffee F W 3687	Eaton H D 4255	
Denning D G 6473	Dillemann G 685	Doroshchenkov G 8327	Dufour R 3817	Eaubonne G d' 8020	
Dennis J 1041	Diller F M 740	Dortan D de 8755	Dufrenoy J 10335	Eaubonne G d' 8021	
Dennis R W G 255	Diller J D 6876	Døssing P 3718	Dugan I R Jr 8707	Eaubonne G d' 8022	
Dennison R A 2072	Diller O D 2907	Doty J M 8328	Dugas M E 8812	Eaves C A 8265	
Denstedt O F 4651	Diller O D 3015	Doty M S 578	Duggan I W 9115	Ebeling W 5322	
Denton W 1776	Dillewijn C van 780	Doughty W D 12	Duggar B M 256	Eberly N M 8120	
Denz J 5504	Dillon M 9418	Douglas G 1780	Duka V I 2480	Eberly N M 9767	
DeOng E R 6758	Dimbulane F 8019	Douglas-fr 3084	Duley F L 2335	Ebert E F 4248	
Deonier C C 5995	Dimitropoulos E 4027	Second- 1780	Dullforce W 1980	Ebert F A 3437	
Deonier C C 5996	Dimock W W 4572	Growth Man- 1780	Duncan D B 7518	Echarri Loidl 4797	
Dequae A 7862	Dimock W W 4573	agement Com- 1780	Duncan E R 1272	J M 135	
Derby T H 8593	Dimond A B 8706	mittee 1780	Duncan R E 621	Echols M P 9921	
Derfabin D I 3172	Dinger J E 4790	Douglass A E 13	Duncan W H 135	Ecke D H 6474	
Derfabin D I 3173	Dingwall A R 2073	Doumont L 1781	Duncumbe 4028	Eckert J E 5505	
Derivaux J 3878	Dino P 6115	Doumont L 2129	A M 135	Eckhoff L R 1455	
Derivaux J 5076	Dinsdale D H 9539	Doutt R L 6194	Dunegan J C 306	Eckmüller O 3125	
De Ropp R S 776	Dion H G 2479	Douty H M 3433	Dunlap L H 3559	Eckstein E N 1783	
De Rosayro R A 2906	Dirsh V M 6411	Dover H L 14	Dunn E 567	Eddie G C 9056	
Desbaumes P 7300	Dirsh V M 6412	Downes J A 5849	Dunn M 10085	Edds G T 3818	
Desch H E 3362	Dissmore G 8190	Downing C G E 6938	Dunnam E W 5708	Eddy G W 5648	
Deschacht J 7863	Dittmore P L 8325	Doyle L A 6470	Dunning J W 8708	Eddy G W 5852	
Deschamps C 4026	Dittmar H F K 9039	Doyle L P 4793	Dunton E M Jr 2481	Edel V 10173	
Desclin L 5076	Ditvekar K V 4217	Dózs L 4445	Dupaigne P 8226	Edel V 10174	
Deslusses J 7300	Divo A 4794	Dráb J 1979	Duplas G 267	Edelman C H 2190	
DeSilvia E R 3577	Dixey R N 9540	Drachovská- 5318	Duplan J 3436	Edel'man N M 5692	
Dessau K 10084	Dixit D T 6057	Štmanová M 5318	Duplan J H 7686	Edel'shtein M M 2482	
De Swardt S J 9538	Dixon H M 7079	Draghetti A 1454	Dupliff I 6788	Edelsten H M 10286	
Detert E R 777	Dłuzewski S 5004	Draghetti A 2357	Dupont L 6567	Edgar A D 8134	
Deuss J J B 7301	Doan F J 7608	Dragt J 1486	Dupree M 5709	Edgington G 2299	
Deutsche Land- 2873	Doane D H 9419	Drain B D 1671	Du Preez D 1577	Edler G C 8950	
wirtschafts- 2873	Doane O W 5998	Drake E M 4367	Dupuis C 5850	Edlin H L 16	
Gesellschaft 2873	Dobberstein J 3813	Drakin L I 3971	Dupuis C 5851	Edlin H L 3048	
Deutsches Insti- 9435	Dobberstein O 7919	Drangeid O 3252	Dupuis C 6101	Edlin H L 3406	
tut für Wirt- 9435	Dobrovolski B V 6293	Dreier A F 2522	Dupuy C D 8974	Edlund A 687	
schaftsfor- 9435	Dobrowolska D 4218	Dreier A F 2522	Durán 10159	Edman G 7757	
schung 9435	Doby P B 3666	Dreisbach R R 6195	Quevedo T 9040	Edminster F C 10211	
Deutsches Insti- 9717	Dobzchansky T 5845	Dreux P 6294	Durand L Jr 5123	Edmondson J E 4276	
tut für Wirt- 9717	Dobzchansky T 5848	Dreux P 6295	Durans H 6624	Edmondson R E 7687	
schaftsfor- 9717	Dockray G H 7866	Dreux P 6296	Durant A L 8329	Edridge T G 1784	
schung 9717	Dodd F H 4364	Dreuzy R de 1110	Durham R K 4575	Edridge T G 1785	
Devine J 3452	Dodd N E 7067	Drew F 7200	Durieux J 4575	Edwards E E 5506	
DeVoto B 2647	Dodd N E 10017	Drewry D 4893	Durieux M 4221	Edwards F I Jr 5323	
Dewey E R 7864	Doganovski M G 6641	Drieux H 2322	Durland H C 5319	Edwards F I 5324	
DeWitt R 5997	Doganovski M G 6642	Drift J van der 5319	Durme J van 5181	Jr 6443	
De Worms C G M 6291	Doggett D 6529	Driggers B F 5181	Durrell L W 5181	Edwards G A 6475	
De Zoete & 7302	Dolby R M 7482	Drimmelen G C 5181	Duspiva F 5283	Edwards G B 4533	
Gorton 7302	Dolby R M 7483	van 5181	Duteme J 2874	Edwards G F 7484	
Dhungat S B 8432	Dolcher T 781	Drinkard A W Jr 5283	Duthill J 2874		
D'fchenko A E 3253		Droeven G 2189			
D'fchenko P 7685					



	Item		Item		Item		Item		Item
Edwards G R	5325	Ellison D	7533	Esaki T	6102	Falcone M A	7872	Fels	4665
Edwards H M	5160	Ellison W D	2764	Esaulov P A	5125	Falconer J I	9143	Felton R A	2765
Edwards N L	10351	Ellmore M F	3720	Esbo H	1981	Fancher L W	6758	Feng I Y T	7834
Edwards N L	10352	Elmslie W P	7416	Escalante E	9063	Fandeev B V	4030	Fenjes P	6520
Edwards N L	10353	Elrod J C	9427	Eschinazi H E	8227	Fangau K W	4895	Fenley J M	3221
Edwards R L	2875	Elrod J C	9428	Eshbach C E	7076	Fanning J W	9423	Fenton F	7204
Edwardson J	5077	Elsukov M P	1114	Esmond C W	7562	Farago P	7873	Fenton F	8218
Efferen J	7529	Elsukov M P	1276	Espejel Diaz L	3016	Farb I	7309	Fergus C L	398
Efreinov S	8492	Elsukov M P	1277	Espinoza Poveda	9206	Farcy H de	9424	Fergus C L	399
Egan E A	9768	Elvehjem C A	3721	Esselen W B Jr	7202	Fares Tale F A	2133	Fergus C L	399
Eggendorfer T	7303	Elvehjem C A	10177	Essen W J van	8913	Farla E	4365	Ferguson I A C	308
Eggert R J	8493	Ely F	4016	Essery R E	7308	Farla e Mala	8494	Ferguson I A C	1117
Eggink H J	8951	Ely R E	1421	Esson J G	1790	V M	8494	Ferguson L C	4016
Eggleton L Z	8814	Elze D L	1578	Esterbrooks H L	4225	Farley H	4228	Ferguson M H	1925
Eggleton L Z	9421	Emberger L	17	Estes B W	4534	Farley T	4415	Ferlan L	138
Egler F E	784	Embleton T W	2260	Ettien I E	10161	Farlow L	8710	Fermor C E	4896
Egorov A S	7304	Emden F I van	5853	Ettinger J	1982	Farm Place-	9207	Fernald M L	139
Egusa Y	3445	Emden F I van	5854	Evans C E	2262	ment Confer-		Fernald M L	140
Egypt Ministry	5255	Emsie M G	4663	Evans D D	2203	ence Chicago		Fernald M L	141
Entomological		Emerson K C	6477	Evans D D	2215	1949		Fernald M L	142
Sect		Emerson R A	688	Evans G	1278	Farol M	10018	Fernald M L	215
Ehlers P L	1109	Emerson S	788	Evans G	9219	Farrar J L	3174	Fernandes A	19
Ehlers P L	2522	Emerson W J	3322	Evans H J	790	Farrar M D	8375	Fernandes A	88
Ehrenberg M	785	Emhardt R B	10144	Evans M B	5507	Farrell F D	9773	Fernandes A	622
Ehrenforth W	9593	Emilsson E	7610	Evans O R	4226	Farrar K T H	7203	Fernandes A	623
Ehrlich C	4368	Empey G F	4224	Evans R B	7870	Farrington E I	6644	Fernandes J S	8713
Eichelberger M	10086	Empson J D	9541	Evans R B D W	4535	Fasihuddin M	8332	Fernandes R	88
Elchinger J	7252	Emslie A R G	4835	Evans R E	5326	Fath A	6689	Fernandes R	89
Elchinger J	9062	Enders C	7306	Evans R M	3323	Fattovich M	5510	Fernandes R G	1579
Eichler W	6476	Enders C	10160	Evans W L	8151	Fauchard D	5856	Fernandez C M	3822
Eijsvoogel W F	6568	Endres J F	8613	Eveleth D F	4246	Faulkner E H	2324	Fernandez G B	9047
Elsenberg W V	7305	Enfield G H	1476	Eveleth D F	4779	Faure J	1533	Fernandez G M	7690
Elsenreich L	4223	Engelbreton T O	9596	Eveleth D F	4804	Faure J C A	8712	Fernandez-Cano	1672
Ejsing G	786	Engel F	7307	Eveleth D F	5062	Faustini R	3820	L H	
Ek Dahl W G	764	Engel W	4664	Evenius	5508	Fazl R de	8228	Fernández Ferre	4369
Eksaa O	8331	Engelhard J	5078	Evenius	5509	Fazl-e-Ahmed	7159	R	
El-Afifi A	8558	Engelhard J	6643	Evensen W	7610	Feagin G	10354	Fernández	3972
el-Shafie M A	9594	Engelhardt J H	9769	Everett T H	1791	Feagin G	10355	Quintanilla C	
el-Shafie M A	9595	Engelhardt W	5256	Everist S L	2130	Feagin G	10356	Fernando H E	6478
El-Sokkary	5136	Engelmann	4734	Everson A C	1279	Feagin G	10357	Fernando L	1580
A M		Engineers Joint	2651	Everts A B	3324	Feagin G	10358	Fernando L H	1118
Elagin I N	2763	Council		Ewer T K	5079	Feagin G	10359	Fernando L H	1119
Elagin I N	9205	Water Policy		Ewer T K	5080	Feagin G	6300	Fernando W	5714
Elagin V	1113	Panel		Ewing E C	6569	Fearnough		Fernando W	6413
Elam F L	2650	England C W	7689	Ewy Z	3819	T D		Fernando Z	1120
Elam F L	4133	Engle K	783	Ewy Z	4227	Fearnley C	7874	Fernholm H	1981
Elder L W	7013	Englehorn V A	9658	Eyles D E	5999	Fearnow T	3355	Ferrari E	4031
Eleazer J M	1274	Engler H	4798	Eynden G P A	2132	Feaster C V	1434	Ferrari L	3823
Eleazer J M	1275	Englert	1531	van den		Fedderson H C	7648	Ferreira	20
Elia E d'	2955	English H P	8161	van		Federación	2124	Filho O J	
Elia E d'	3484	English H P	8709	Eyres H T	3637	Nacional de		Ferreira Lima	400
Elia E d'	9285	Engstedt G	1787	Eyting H	943	Cafeteros de		A D	
Elias L J	9988	Enikeev Kh K	1532	Eyster H C	791	Colombia		Ferro R B	2419
Eliot N	6297	Enikeev S G	2483	Eyster W H	2598	Federal Reserve	8484	Ferwerda J D	2876
Eliot N	6298	Ennesch C	9770			Bank of San		Fesler J W	2652
Eliot N	6299	Enning	9922	Fabbri R	3667	Francisco		Feuerborn E	4370
Eliot N	6299	Enos R	1788	Faber F L	7114	Federation of	8680	Few F G	6728
Elizondo G	787	Ensminger L E	2261	Faber F L	8152	Paint and		Fichera A	7611
Elkan E	5629	Ensminger M E	4145	Fabian F W	8162	Varnish Pro-		Fichera A	8714
Elkington W M	4879	Epling C	136	Fabian F W	8246	duction Clubs		Fidler J C	8229
Ellenwood C W	1530	Erasmus C W	1487	Fabre R	8914	Federer K E	3821	Fidler J C	8230
Ellerström S	697	Erdman L W	2323	Fabricatore	792	Federico S	2956	Fiedler J	691
Ellig G	7080	Eremin G P	4116	J A		Fedushin V P	4229	Fieger E A	9064
Elliker P R	7688	Eremin V M	5855	Fagel G	5712	Fedorov M V	2325	Field H I	3824
Elliot E	5124	Erichsen I	7609	Fagerson I S	7202	Fedorov V A	6759	Fielding A M	8191
Elliot F E	9286	Erickson T A	6530	Faggioli D	5713	Fedoseev B V	6686	Fielding H	8003
Elliot L T	7795	Ericson F L	9542	Fahrbach R	7871	Feenstra P	1792	Fife L C	6269
Elliot R	8121	Eriksen S	4799	Fahringer F	9772	Fehn H	9569	Fifield C C	8333
Elliot R L	7869	Eriksen S	10212	Falbushevich	6616	Fehr J C	5023	Fifield C C	8334
Ellis C K	1786	Eriksson K	137	Fair		Fehrln A	7875	Fileni E	9597
Ellis D E	395	Eriksson T	4134	Fair E W	7559	Fehrln A	7876	Filippi N	6103
Ellis D E	410	Erkama J	998	Fairbanks G E	6671	Feichtmeir E F	5327	Fillat A	5035
Ellis E E	1994	Ermolaeva E A	789	Fairchild G B	5843	Feigina B	7521	Filley V W	2370
Ellis L S	9422	Ernst A	1789	Fairfield-Smith	8931	Feinstein L	999	Finch F H	3495
Ellis N K	396	Errico A A d'	4286	H		Féjard R	766	Fincher M G	4230
Ellis N R	4152	Errington B J	4577	Fairing J D	7474	Felcourt E de	9287	Findlay J S	3467
		Erwin A T	1115	Faillon S	5948	Feldman-Muhsam	5630	Findlen H	8134
		Erwin D C	397	Falck R	689	B		Fink F	4666
		Erwin L E	4785		690	Feldmann G	235	Fink L C	9774
						Feldmann U	18	Finkenzeller R	6570
						Fellenberg T von	8075		
						Fellows H C	8334		



Item	Item	Item	Item	Item
Finlayson L H 5715	Florida University 1367	Food and Agriculture Organization of the United Nations 10375	Fox H M 23	Frensel O 7419
Finley A M 401	Bureau of Economic and Business Research 9058	Food and Agriculture Organization of the United Nations 10376	Fox H M 2137	Frensel O 7420
Flori G 5716	Florschütz P A 257	Food and Agriculture Organization of the United Nations 9289	Fox L 795	Frensel O 7421
Flori G 5718	Flower A 5036	Food and Agriculture Organization of the United Nations 9290	Fox M 8568	Frerich 3085
Firbas E 1983	Flück H 2136	Food and Agriculture Organization of the United Nations 4364	Foytik J 8123	Frerich 3407
Firnstahl J P 8231	Fluiter H J de 5719	Food and Agriculture Organization of the United Nations 4228	Fraenkel G 5782	Fresneau M 9065
Firsov P P 2076	Fluiter H J de 5720	Food and Agriculture Organization of the United Nations 4101	Frame J 5205	Freudenberg K 3605
Firsova M K 8163	Fluiter H J de 6106	Food and Agriculture Organization of the United Nations 4104	Framhus O 7670	Freudenberg K 3606
Fischer B M 7500	Flynn L M 7008	Food and Agriculture Organization of the United Nations 1925	Franc de Ferrière P J J 2486	Freudenberg K 3607
Fischer G W 343	Fobes E W 6531	Food and Agriculture Organization of the United Nations 4211	France Direction de la Production Agricole 9099	Freund S 3831
Fischer I 60	Focarile A 5721	Food and Agriculture Organization of the United Nations 9291	France Ministère de l'Agriculture 4536	Freza P 796
Fischer K H 9425	Focarile A 5722	Food and Agriculture Organization of the United Nations 8122	France Ministère de l'Agriculture 6532	Frick E J 4248
Fischer R 1000	Focarile C 2653	Food and Agriculture Organization of the United Nations 3000	France Ministère de l'Agriculture 6532	Fried J F 10153
Fischer W 309	Focken 9776	Food and Agriculture Organization of the United Nations 7878	France Ministère de l'Agriculture 6532	Fried M 2263
Fischer-Schlemm W E 6645	Foged N 236	Food and Agriculture Organization of the United Nations 4632	France Ministère de l'Agriculture 6532	Friedberg F 863
Fischer-Schlemm W E 6783	Fohrman M H 4325	Food and Agriculture Organization of the United Nations 4633	France Ministère de l'Agriculture 6532	Friedensburg F 6977
Fischer-Schlemm W E 6783	Foister C E 403	Food and Agriculture Organization of the United Nations 4634	France Ministère de l'Agriculture 6532	Friedland G 6978
Fiselskil V N 7310	Folks S J 5159	Food and Agriculture Organization of the United Nations 4162	France Ministère de l'Agriculture 6532	Friedland M 4416
Fisher E H 5328	Folks S J 5161	Food and Agriculture Organization of the United Nations 8196	France Ministère de l'Agriculture 6532	Friedman B A 8232
Fisher E H 6301	Folmer N I 2599	Food and Agriculture Organization of the United Nations 9292	France Ministère de l'Agriculture 6532	Friedman L 7780
Fisher E V 5329	Foltinek H 6690	Food and Agriculture Organization of the United Nations 692	France Ministère de l'Agriculture 6532	Friedmann G 2655
Fisher F E 7205	Fondard L 2485	Food and Agriculture Organization of the United Nations 9041	France Ministère de l'Agriculture 6532	Friedrich A 7879
Fisher G J 4231	Fondard L 9116	Food and Agriculture Organization of the United Nations 9082	France Ministère de l'Agriculture 6532	Friend W H 6109
Fisher G M 1793	Fons W L 3638	Food and Agriculture Organization of the United Nations 794	France Ministère de l'Agriculture 6532	Friend W H 8023
Fisher O V 8265	Fonseca J P da 6107	Food and Agriculture Organization of the United Nations 7485	France Ministère de l'Agriculture 6532	Fries N 797
Fisher V J 793	Fonseca J P da 6479	Food and Agriculture Organization of the United Nations 7560	France Ministère de l'Agriculture 6532	Fries R E 24
Fiszer J 6295	Fonseca M M E 8976	Food and Agriculture Organization of the United Nations 4579	France Ministère de l'Agriculture 6532	Fries H 9293
Fiszer J 6414	Fonseca Filho C de A 3049	Food and Agriculture Organization of the United Nations 6480	France Ministère de l'Agriculture 6532	Friesner R C 798
Fiszer J 6415	Font y Solsona J 9172	Food and Agriculture Organization of the United Nations 963	France Ministère de l'Agriculture 6532	Frigerio J C 5038
Fitch F W Jr 2752	Fontanelli E 3826	Food and Agriculture Organization of the United Nations 1001	France Ministère de l'Agriculture 6532	Frigerio J C 5724
Fitelson J 8715	Fontanelli E 4578	Food and Agriculture Organization of the United Nations 7395	France Ministère de l'Agriculture 6532	Friggens P 2656
Fittipaldi S A 4446	Fontanelli E 5073	Food and Agriculture Organization of the United Nations 1794	France Ministère de l'Agriculture 6532	Friggens P 2657
Fitzgerald O A 530	Fonth J M 5236	Food and Agriculture Organization of the United Nations 4800	France Ministère de l'Agriculture 6532	Friggens P 3832
Fitzgerald O A 2191	Food and Agriculture Organization of the United Nations 3677	Food and Agriculture Organization of the United Nations 5344	France Ministère de l'Agriculture 6532	Frigidaire 8818
Fitzgerald O A 6571	Food and Agriculture Organization of the United Nations 7253	Food and Agriculture Organization of the United Nations 9684	France Ministère de l'Agriculture 6532	Div of General Motors 6000
Fitzgerald O A 6571	Food and Agriculture Organization of the United Nations 8916	Food and Agriculture Organization of the United Nations 1280	France Ministère de l'Agriculture 6532	Frings H 6000
Fitzrandolph C T 6974	Food and Agriculture Organization of the United Nations 9288	Food and Agriculture Organization of the United Nations 1795	France Ministère de l'Agriculture 6532	Frings H M K 4667
Fitzwater C O 9775	Food and Agriculture Organization of the United Nations 9322	Food and Agriculture Organization of the United Nations 3827	France Ministère de l'Agriculture 6532	Fritch I 7694
Flx W J 8452	Food and Agriculture Organization of the United Nations 9587	Food and Agriculture Organization of the United Nations 4897	France Ministère de l'Agriculture 6532	Fritz E 3639
Fjeldalden J 5330	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 4898	France Ministère de l'Agriculture 6532	Fritz R F 5858
Fjeldalden J 5331	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 8817	France Ministère de l'Agriculture 6532	Fritz R F 5859
Flacomio E 21	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 6729	France Ministère de l'Agriculture 6532	Fritz W 5869
Flacomio E 2134	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 1281	France Ministère de l'Agriculture 6532	Fritzsche K 5334
Flacomio E 2135	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 7081	France Ministère de l'Agriculture 6532	Frizzi G 5860
Flachs K 624	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 4135	France Ministère de l'Agriculture 6532	Frizzi G 6001
Flanagan J E 6617	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 22	France Ministère de l'Agriculture 6532	Fröhlichman S 5082
Flanders S E 5511	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 7158	France Ministère de l'Agriculture 6532	Fröhlich H G 7880
Flanders S E 6104	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 7864	France Ministère de l'Agriculture 6532	Fröier K 1196
Fleck E E 5332	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5181	France Ministère de l'Agriculture 6532	Frolov P A 2489
Fleis B M 5235	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 9042	France Ministère de l'Agriculture 6532	Frolov P A 2489
Fleischman F F 7691	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 3560	France Ministère de l'Agriculture 6532	Frölov P A 2489
Jr 4989	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 9426	France Ministère de l'Agriculture 6532	Frölov P A 2489
Fleming G 10387	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Fleming R 7417	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Fletcher A L 402	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Fletcher D G 6302	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Fletcher H M 7877	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Fletcher M V 10145	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Fletcher P W 2204	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Fletcher W P 8904	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Fletcher W P 8915	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Flik H M 310	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Fliat W E 3973	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Flock R A 6105	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Flora C C 7692	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Flora C C 7693	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Flora J H 8815	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Florent 4232	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Florent 4233	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Florent A 3925	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Flores A M A 1984	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Florida Citrus Commission 8164	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489
Florida State Marketing Bur 8289	Food and Agriculture Organization of the United Nations 9788	Food and Agriculture Organization of the United Nations 5333	France Ministère de l'Agriculture 6532	Frölov P A 2489



	Item		Item		Item		Item		Item
Fullerton A W	2957	Gambrell F L	6111	Gear R D	9927	Gibbs A J	6113	Glukhov A I	1986
Fullilove W T	9427	Gannon E T	5341	Geddes H J	6619	Gibbs L C	2495	Glynn L L	4582
Fullilove W T	9428	Gams H	26	Geddes W F	8336	Giblin M	7621	Gmelin W	8572
Fullilove W T	9431	Gandel'man T S S	404	Gedroyć M	3669	Gibshman M	7696	Gmelin W	9432
Fullton Z M K	9654	Gandra J F	9925	Gee A J	4169	Gibson J M	8920	Gnagy M J	7487
Jr		Gankevich K M	5513	Gee A J	4170	Gibson W B	7141	Gobis L	8980
Fulton D	9173	Gannon N	5981	Gee C W	2768	Giesecke F	3724	Goble F C	4437
Fulton H R	312	Gapen K M	1445	Gee G	8916	Gieseking J E	2291	Godbille M	3925
Fulton R W	505	Gapen K M	9386	Gee H	10099	Gigante R	800	Goddard E D	4593
Fulton Z M K	9653	Gapen K M	10127	Geertsema M	9928	Gil Fortún F	4803	Goddard J H	1801
Jr		Gapen K M	10264	Geete E	3051	Gil León J L	8821	Goddard R	5514
Fumelli A	1121	Garassini L A	7422	Geffroy H C	8337	Gilbert F C	7884	Goded L	1435
Funchess M J	9242	Garaudeaux J	2444	Gehrke C W	7486	Gilbert I H	5996	Godefroy B	8918
Funk Brothers	1122	Garber R J	426	Geib A F	6061	Gilkey H M	1799	Godefroy G H	560
Seed Co		Garber R J	1283	Geigy R	4802	Gilkey H M	1985	Godfrey G H	561
Fuqua O	9661	Garbutt R J	3787	Gelgy R	6482	Gill C B	3144	Godina G	3836
Furman D P	5631	Garces O C	314	Gelinder C F	6693	Gill J B	5822	Godnev E D	3214
Furneaux B	2420	Garcia Badell	9174	Gel'man N S	1003	Gillese J P	9453	Godnev E D	3222
Furner Sir H	8570	J G		Gel'man N S	1028	Gillespie F L	8166	Godnev E D	3254
Furrer J D	6811	Garcia Badell	10291	Gel'man V	6694	Gillieaux P	6444	Godoy J C	4511
Fussell G E	6618	J G		Gel'man V	9430	Gillies J	7195	Goeser P A	8652
Fussell G E	6922	Garcia de	4736	Gemerer P van	6787	Gilmore J U	6114	Goidanich A	6200
Fussell G E	10289	Paredes A B		Gemerer P van	8126	Gilmour J D	3087	Goksel N	380
Fussell G E	10290	Garcia Grimalt	3574	Gemmeke	5128	Gilpatrick	384	Gold A H	531
Fussell J	5124	J M		Gendre	2659	J D		Goldberg M	5345
Fussell K R	6822	Garcia Isidro M	9598	Gengoux P	3834	Gilpin G L	8224	Goldberg M	5346
Future Farm-	9923	Garcia Mendez	8977	Génin G	7695	Gils G E van	8917	Gol'de IÜ V	8499
ers of Ameri-		J B		Gennari G	2769	Glmeno J A	9570	Gol'dfel'd S	6788
ca		Jard L E	2767	Gentilli J	27	Gingles R	6840	Goldin A	1307
Future Farm-	9924	Gardener E H	1489	George L V	1284	Giolitti G	4447	Goldman L	941
ers of Ameri-		Gardener J	6692	Gerasimov M A	1673	Giordano B	8978	Goldsborough	8128
ca		Gardenhire J H	2491	Gerber I	10090	Giorgini G	1123	G H	
Fuzibayashi M	3382	Gardiner J E	5342	Gerberich J B	3304	Glorgini G	4522	Goldsby A I	4804
		Gardner J L	2209	Gerbrandt G	3086	Glorigis P de	6979	Goldschmidt H	8339
		Gardner K B	9926	Gerdemann	406	Giovanni B	6115	Goldschmidt	2496
		Gardner P	6920	J W		Girardo O	2770	W B	
		Gardner R	2519	Gerdes F L	7883	Girard O	3876	Goldsmit M T	7885
		Gardner M W	335	Gericke A M	4668	Girard O	4586	Golomazov I A	1286
		Gardner M W	405	Gericke S	28	Giraud A	3485	Golovina V IA	5054
		Gareau G	4824	Gericke S	2493	Giraud E	5727	Golubev G	6789
		Garland J	6956	Gerimonte A E	3408	Giraud E	9043	Golubev P	3409
		Garlock F L	9100	Gerlings J H J	579	Giraudon	8233	Golubinskij S S	3223
		Garnatz G	8614	Germany Terri-	9667	Giroud P	5005	Gómez P	9296
		Garnatz F H	4371	tory under Al-		Gischig L C	3534	Gómez	9929
		Garner H V	2492	lled Occupation		Gitlin H M	6904	Ramirez C A	
		Garner R J	3723	Russian Zone		Giulianelli E	6306	Gommell W	6783
		Garrett E	5380	Deutsche Wirt-		Giuliani R	4372	Gomutputra C	3725
		Garrett-Jones C	5861	schafts-kommis-		Giuliani R	4581	Gonashvili Sh	7488
		Garrido M	4900	sion		Glustini G	4034	Gonçalves P A	1124
		Garrington E	2138	Gerock E	10361	Gizycki F von	8716	Gonçalves P A	10388
		Garriss H R	395	Gerosa G	3835	Glabau C A	8338	Gonchar A I	1287
		Garth R	10162	Gerrard F	8639	Glabau C A	8822	Goncharenko	6672
		Gaschen H	5296	Gerretsen F C	2877	Gladenko I N	5344	F T	
		Gassner F X	3833	Gerritsen C J	1619	Gladkij F S	8979	Gonik A A	3410
		Gastambide-	5083	Gerritsen J D	315	Gladyshevskij	3253	Gonzalez A E	2266
		Odier M		Gersdorff W A	5862	M K		Gonzalez E	1802
		Gates D E	5343	Gersdorff W A	5863	Glaser L S	8024	Gonzalez E	2139
		Gatti O O	7314	Gershtein L A	1004	Glasgow R B	9431	González	3837
		Gattorta G	2264	Gersons L	8165	Glashoff J	8571	Cubillo J	
		Gaudy C A	8638	Gerstel D U	694	Glass L S	9295	Gonzalez	3938
		Gaufin D M	5068	Gersstell R	10214	Glasscock R S	4132	Cubillo J	
		Gauhe A	5756	Gessel S P	2494	Glasscock R S	4137	González	9781
		Gaul	2601	Getty J	4777	Glasscock R S	4138	Rebollo A	
		Gäumann E	3468	Ghani M A	6081	Glasscock R S	4139	González	4901
		Gaumet R	7315	Ghatge N D	8677	Glasscock R S	5159	Silva E J	
		Gauss W	8335	Ghesquière J	5726	Glasscock R S	5160	González Tafur	5347
		Gauss W	9294	Ghesquière J	5864	Glasscock R S		O B	
		Gauss H	91	Ghesquière J	6112	Glebov M A	5161	Gooch J W	6957
		Gaussen H	799	Ghesquière J	6196	Glässer K	8595	Good R	92
		Cavriellit H	1058	Ghesquière J	6197	Glavind G	1800	Goodacre W A	5515
		Gavrilov K A	3345	Ghidini G M	6198	Glazebrook J	1491	Goodale T	7639
		Gavrilov N V	1618	Ghidini G M	6199	Glebov M A	6760	Goodall G E	9531
		Gay C W	4033	Ghislén P L	1285	Gleichauf R	4669	Goodey T	562
		Gayot G	4219	Giannotti O	5385	Glen H A	8127	Goodloe P M	3609
		Gayot G	5182	Giannotti O	5761	Glenney W C	3787	Goodrich H E	8129
		Gayot G	5183	Giban J	10215	Glock W S	801	Goodrich H E	8167
				Gibbons N E	8819	Gloniagin V	2958	Goodwin E M	7316
						Gloor H	5865	Goodwin K	4670
						Glover H	2771	Goodwin-Wilson	2267
						Glotova T V	2265	R	
						Gloyer S W	8717	Goor	2660
								G A W van de	







	<u>Item</u>		<u>Item</u>		<u>Item</u>		<u>Item</u>		<u>Item</u>
Gwin J M	8828	Hall N S	2584	Hard W L	4451	Hart R	8192	Hayes K W	8921
Gwin J M	8829	Hall R F	3454	Hardin J C	1493	Hart S	3178	Hayes R O	6005
Györfy I	631	Hall R S	1293	Hardin L J	2281	Hartard Ebert M	8291	Haynes R D	8667
Gyrisco G G	5351	Hall S A	5352	Harding H P	4251	Hartard Ebert M	8725	Hayse Mrs W	7702
Gzyrfan M S	806	Hall T E	8346	Harding P L	812	Härtel O	813	Hayutha	4914
		Hall W D	9709	Harding P L	1582	Härtel O	3126	Hayward J W	3729
Haak P J	8642	Hallaue	4193	Hardy D E	5871	Hartley C	320	Hazanoff A	2960
Haan A de	7492	Hallbeck R E	9002	Hardy E	8349	Hartley C	512	Hazen E L	2329
Haan H de	696	Hallé M	4374	Hardy F	2500	Hartley L F	7895	Headley R D	2379
Haan I de	212	Hallecker	3177	Hardy G H	5872	Hartmann A R	8438	Heady E O	2773
Haan I de	807	Hallecker	10377	Hardy G H	5873	Hartmann B	6877	Heady R	4144
Haan-Homans	9919	Halleman A	2081	Hardy J	1811	Hartsing T F	8334	Heagy A B	2083
L N S de		Haller A	5238	Hardy S K	2141	Hartsough G R	4516	Heal R E	1007
Haarer A E	2080	Hallqvist C	7701	Hardy W H	4911	Hartsuijker K	10219	Heald W R	2662
Haarer A E	2879	Halls E E	5164	Hardy W J	4037	Hartung A M	4636	Healton L H	2229
Haarer A E	8722	Halm E E	7143	Hare F K	4037	Hartwig E E	1438	Hearn L T	9710
Haas R	8985	Halm E T	4909	Hare J H	3018	Harvey C	1298	Hearne C C	9789
Haas F A	410	Halpin H	8662	Härer L	698	Harvey C	1299	Heath B	8236
Habbu V S	9571	Halpin J G	3728	Hareubent A	2082	Harvey G R	6983	Heathcote H T	7896
Habib P C	9300	Halpin J G	4738	Haring F	5146	Harvey G R	9154	Heatley N G	38
Habu A	5734	Halvorson H O	8596	Harker D H	2671	Harvey J M	414	Heaton W C	5358
Hachenberg F	3088	Ham W E	4145	Harkness D A E	7424	Harvey N P	1813	Hebert L P	2056
Hack W H	6487	Hamblin S F	1809	Harler C R	7320	Harwood P D	4810	Hebert T T	711
Hackett D P	808	Hamel K A	7217	Harlow R F	9990	Hary P (Hijo)	6878	Hebner P G	2843
Haddington	2959	Hamid S A	10432	Harman R E	1535	Haseman J F	2270	Hecht O	6006
Lord		Hamilton A M	7393	Harmel L	7649	Haseman L	5355	Heck G E	3506
Hadfield W V	1291	Hamilton C C	5353	Harmon C F	9515	Hashimoto Y	3617	Heck W W	815
Hadiwidjaja T	411	Hamilton C C	5354	Harnach R	3945	Hashmi Z A	9787	Heckl R	6845
Hadley N S	7782	Hamilton R A	2359	Harney W	5523	Haskell G	1127	Hecquet A	4493
Hadorn E	5868	Hamilton W E	9140	Haro M	4912	Haskins G	1536	Hector J M	534
Hadorn E	5569	Hamilton W E	9147	Harper G W	6308	Hassan A	5136	Heddon O K	6791
Hadorn H	7319	Hammon W M	6066	Harper G W	6309	Hassel L V	3559	Hedin L	581
Hadorn H	8080	Hammond J	4036	Harper R	7124	Hassenkamp W	3176	Hedlin R	1128
Hadorn H	8830	Hammer C L	811	Harper R	7613	Hastings M	1992	Hedstrom H	4242
Haenseler C M	319	Hampel G	8347	Harper W G	2379	Hata T	2328	Heffernan H	9210
Hafell J M	8723	Hampshire Down	5042	Harradine F F	2375	Hatard Ebert M	10022	Heghe van	4038
Hafenrichter	1292	Sheep Breeders' Association		Harradine F F	2406	Hatch D S	9788	Heghe van	4375
A L		Hampton R N	2661	Harradine F F	2406	Hatch M H	5736	Heiberg H H H	2932
Hafez M	5870	Hamrinf E	9348	Harrar J G	1093	Hatcher J T	2721	Held F J	3439
Hafner F H	3727	Hamrum C L	6000	Harrington B J	9437	Hatlinghus S S	3127	Heideman K K	9790
Hagan R M	809	Hanau	7542	Harrington B J	9438	Hatzfeld G H	8501	Helling A	555
Hagedoorn A L	1477	Hance O J	1990	Harrington B J	9439	Hauge M	1494	Heilmann A	3177
Hagedoorn A L	10218	Hanchey R H	1835	Harrington B J	9440	Haurowitz F	7015	Heim	9119
Hagen E G	6959	Handley R	832	Harrington R F	8597	Hausen J	5356	Heim M	6574
Hagen J F	7892	Hanegraaff C F	9600	Harrington W O	8235	Hausen J	5356	Heim R	415
Hagerup O	810	Hänel-Bockel-kathen G	6893	Harris A J	9654	Hausendorff E	3089	Heim R	10296
Hagerup O	6488	Hanger F	1810	Harris E B	8724	Hauser W	314	Heimberger W	3607
Haget A	5735	Hanif A	7894	Harris GA	1415	Haushofer H	9441	Heimburger J J	9303
Haggard G W	6923	Hanna A D	6095	Harris H L	1295	Hausner F	1621	Heim M A	1421
Haggett G	6307	Hanna A D	6117	Harris H M	6310	Hausner F	1814	Heine	8598
Haggqvist G	5007	Hanna C M	9436	Harris J	1812	Hauver W E Jr	8193	Heinemann P	582
Hahn J L	3411	Hannaford	4910	Harris K F	3383	Haviland W E	9442	Heinemann W W	4145
Hahn-Butry J	4537	C A S		Harris K L	5262	Hawkes A D	150	Heinrich K	3440
Hainsworth R M	8073	Hannah J A	9786	Harris K L	7012	Hawkes A D	151	Heinrichs D H	1300
Haise H R	2206	Hannon R C	7210	Harris K L	7494	Hawkes A D	216	Heinz H J	5976
Hatslip M P	1808	Hansell J	2499	Harris L E	3799	Hawkes A D	1815	Heinz H J Co	8237
Hakansson A	697	Hansen A	3931	Harris M	7978	Hawkes A D	1815	Heinz L	8986
Hakansson H	10021	Hansen A M	7877	Harris R H	8350	Hawkey K J G	4913	Heinzel O	3713
Hakansson R	3017	Hansen H N	414	Harris R S	1991	Hawkins C N	5737	Heisig C P	9545
Hakansson R	9784	Hansen H N	507	Harris R S	6981	Hawkins J C	6648	Heltshu D C	6575
Haken W von	8920	Hansen H N	989	Harris R S	7030	Hawkins R S	10410	Heltz K	9601
Halberstadt M	7641	Hansen H W	5522	Harris W B	413	Hawks R L	5357	Helz R A	7321
Hale M	4906	Hansen K	6573	Harrison A	7134	Hawks S N	2060	Helberg E	7016
Hale M	4907	Hansen M F	4583	Harrison A P Jr	4809	Haws B A	5524	Helbig K	9304
Hale M	4908	Hansen M F	4614	Harrison C M	1296	Haworth-Booth	1816	Held R B	9931
Hale Carpenter	5260	Hansen M F	5086	Harrison C M	2646	M		Heldron M	6879
G D		Hansen P A	4809	Harrison J D B	2910	Hawthorne J R	8832	Heller F	7322
Hale Carpenter	5261	Hanson D	6534	Harrison J D B	2910	Hawthorn-thwaite E	7564	Heller H	8726
G D		Hanson E W	412	Harrison J W H	580	Hay R	1677	Helliwell E H	7897
Hall C J	1675	Hanson H C	1294	Harrison S	7013	Hay R	1817	Helmboldt C F	4255
Hall C J	1676	Hanson H L	8831	Harron R V	7083	Hay R	1818	Helsel W G	8081
Hall C S	7217	Hanson R P	4808	Hars E	3901	Hay T	3438	Helson V A	816
Hall C W B	1620	Hanzawa M	3561	Hars E	5210	Haycock A H		Hemingway R F	2961
Hall D M	9301	Hanzawa M	3608	Harshfield G S	4046	Hayes J B	9443	Hempel A	5263
Hall E K	4143	Haque M U	1006	Hart F L	7014	Hayes J F	8333	Hemphill D D	5738
Hall G	3364	Hara H	149	Hart M L t	1297	Hayes J F	8334	Hemphill P	8201
Hall H H	8358	Harada H	654	Hart M L t	1310	Hayes K M	8927	Hemsley J A	4739
Hall H W	9785	Harbaugh F G	1041	Hart M L t	2501				



Item	Item	Item	Item	Item	Item
Henares H G 6576	Hertrich E 6621	Hilditch T P 8693	Hofer M 7568	Hooper O 9683	
Henderson B W 4146	Hertzog M 8455	Hilger R 4674	Hoff G 2505	Hoops O W A 5087	
Jr	Hervas A 3053	Hilger R 4675	Hoff G 2778	Hoover C D 2275	
Henderson D C 4915	Hervens R 10023	Hilger R 4811	Hoff P R 2661	Hoover M D 2208	
Henderson G 9444	Hervey A 1034	Hilger R 5526	Hoffecker E 8334	Hope E B 3732	
Henderson J M 6038	Herz H 7425	Hilkenbäumer F 1623	Hoffman A 5405	Hope F L 4523	
Henderson R H 8162	Herz H 7426	Hill A R 6204	Hoffman W G 4676	Hope R 1302	
Henderson R L 6007	Herzer F H 7565	Hill C B 4041	Hoffmann A 5637	Hopf L 8354	
Hendrickson A H 1720	Heslop Harrison 153	Hill C H 8597	Hoffmann E 8502	Hopf L 8355	
Hendrickson A H 2663	J W	Hill G B 6733	Hofford H M 1301	Hopf L 8356	
Hendrickson B H 2774	Heslop Harrison 6314	Hill K W 2665	Hoffpaul C L 822	Hopkins D 8952	
Hendrix C H 8727	J W	Hill L 9791	Hoffpaul C L 7957	Hopkins D P 2867	
Hendrix J W 416	Heslop Harrison 6316	Hill R E 5406	Hoffpaul C L 8765	Hopkins G E 7902	
Hendrix J W 535	J W	Hill R E 6376	Hofmann 4193	Hopkins G H E 6492	
Henglein F A 8082	Heslop Harrison 6317	Hill S 6880	Hofmaster R N 5638	Hopkins G H E 6493	
Hénin S 2202	J W	Hillestad O 1130	Hofmaster R N 6318	Hopkins H T 823	
Hénin S 2271	Heslop I R P 6312	Hillig F 7496	Hofsten C G van 5363	Hoppe R 3849	
Hénin S 2775	Hillig F 6313	Hillig F 8833	Hogan J T 7901	Hoppe R 3850	
Henisch G 5024	Hess A D 5994	Hilty H 3846	Hogan K G 2356	Hoppenstedt 2911	
Henk H J 3470	Hess E 4244	Himmelfarb D 7900	Hojendahl K 2210	Hopwood T 10389	
Hennaux 3730	Hess E 7323	Hinchcliff K 6869	Hojendahl K 2211	Horak W 8988	
Henner J 817	Hess H 6846	Hindriks J 5129	Holas B 40	Horioka K 3610	
Hennig 5739	Hess K 7898	Hine M K 9792	Holben F J 2554	Horlacher L J 9793	
Hennig B 1993	Hess O 10024	Hinkle W B 8106	Holdaway C W 7692	Horn L H 4154	
Hennig W 5874	Hess S M 7038	Hinkle W B 8107	Holdaway C W 7693	Horn L H Jr 4149	
Hennigar P T 7084	Hesseltine W R 4376	Hinsman F G 5298	Holdaway F G 6281	Hornburg P 9307	
Henriksen H A 3178	Hester J B 2376	Hinschberger P 5635	Holdaway F G 6319	Horne B C 10299	
Henriksson A 4147	Hester J B 2502	Hinshaw J E 8834	Holden E D 1131	Horne FR 8357	
Henriot 1678	Heuberger J 9120	Hinton C W 5876	Holder R C 3731	Horne M K Jr 7903	
Henriques E 4243	Heuss R 8352	Hinton C W 5970	Hole F D 2377	Hornbrook 3308	
Henriques E 4364	Hewitt W B 321	Hinton H E 5877	Holland F G 9645	Hornsby H 6894	
Henschel A 10093	Hewitt W B 453	Hinton H E 6490	Holland L J 41	Horrington J 7164	
Hensill G S 5740	Hewlett M A 317	Hipólito O 4812	Holland R F 7691	Horsfall R A 2666	
Henry A M 8083	Heydt G 7543	Hirai S 3425	Hollande A 6485	Horst J A ter 2506	
Henry G 4916	Heymann- 818	Hirashima Y 6236	Hollende A 6485	Horst M 9308	
Henry J 7703	Herschberg L 819	Hirnle Z 4245	Hollenberg A H 6796	Horton J M 25	
Hepburn G A 5359	Heymann- 819	Hiroki Y 3256	Hollingsworth 5822	Horton M B 8831	
Hepburn J M 4673	Herschberg L 819	Hirsch A 4813	H S	Horwitz W 7498	
Hepding L 5360	Heyn A N J 7899	Hirsch D E 7566	Holm G C 4246	Horwitz W 7499	
Hepler J R 1994	Heyroth F F 5306	Hirsch D E 7653	Holm P 3931	Hosch 6761	
Hepple L M 9686	Heywood E 9305	Hirschberg E 1009	Holm W K 7569	Hosford J 6960	
Herbette F 8922	Hibbard A D 2503	Hirschmann R 7324	Holman L E 8729	Hosley B 5527	
Herbsthofer F 6577	Hibben R C 7427	Hirschmann R 7615	Holman R L 6734	Hosterman E R 8661	
Hereford Herd 4039	Hibbett B 7614	Hirst E L 1010	Holmes D H 7497	Hothum G 8671	
Book Society	Hibbs E T 6350	Hirst E L 7850	Holmes E 5364	Hotz E 7326	
Hergueta 5239	Hibbs J W 4290	Hirst E L 8073	Holmes J 8641	Hough A F 3257	
Navas L	Hibbs J W 10190	Hisauchi K 155	Holmes J R 4247	Hough L 8989	
Herklotz A 10297	Hibon E 154	Hisauchi K 1823	Holmes J Y 9648	Houghton E E 7265	
Herlihy E M 9643	Hickenlooper 2777	Hitchner L S 7125	Holmes K E 7325	Houghton E E 7266	
Herman H A 4276	B B	Hixson E 5362	Holmes R H 4042	Houillier E 9121	
Herman H A 4300	Hickey D G 7085	Hixson E 5406	Holmes R S 2298	Houillier F 9211	
Herman L H 6792	Hickin N E 6489	Hixson E 5878	Holmsgaard E 3180	Houston F G 1011	
Hermann F J 152	Hicks J S 4918	Hjelm L 9306	Holmström S 6579	Houston J M 2667	
Hermansen N K 3091	Hidaka H 3070	Hlynka I 8353	Hokobut W 3848	Hout F van 6847	
Hernandez 6311	Hidalgo 7017	Hoag W G 9932	Hölscher H 8028	Hovey A G 8730	
Vidaurreta M	Granados A	Hoare C H 3847	Holstein Friesian 4148	Howald O 9687	
Hernández 1129	Hide J C 2207	Hobart A L 7241	Association of 6796	Howard C G 9794	
Xolocotzi E	Hiele T van 8238	Hobart S G 2962	America	Howard I A 7500	
Hernando E A 7704	Hierholzer O 5361	Hobbie E 8728	Off of Produc- 383	Howard W E 10220	
Hernndon F E 6793	Hieronymus 1821	Hobbs B C 7126	tion Records	Howe D K 7570	
Herold K 5525	A M	Hobbs J A 2504	Holton C S 4991	Howe R W 5742	
Herr F 1622	Hight T 6578	Hochholzer H 2194	Holtzinger J E 10249	Howe W L 6320	
Herre H 1819	Higgins F H 6649	Höchstetter 6795	Holz K 6786	Howe W L 6321	
Herreid E O 7495	Higgins F H 6650	Hockensmith R D 2814	Hong-Bom K 7162	Howell D E 1414	
Herrera de la 4917	Higgins F H 6794	Hockensmith R D 9887	Hönicke K 3146	Howell H B 1303	
Torre A	Higgins J M 3365	Hockett R C 1822	Honig F W 1495	Hoves H 4922	
Herrera Suárez 258	Higgins V 4040	Hodde W 7955	Hood E G 7428	Howie G W 9309	
T	Higley P I 820	Hodge C R 9446	Hood K 7163	Howie J 4043	
Herrera Suárez 474	Higo J 3179	Hodges J A 821	Hood N E 3503	Hoy J D 9447	
T	Higo J 3256	Hodgson R W 1583	Hoogendoorn J 4814	Hradil 699	
Herrick A C 1820	Higuchi J 2328	Hodgson R W 1584	Hoogendoorn J 4919	Hruschka H W 8194	
Herrick J F Jr 8276	Higuchi T 2328	Hodson A C 6271	Hoogendoorn J 4920	Hruška K 5185	
Herrington R E 2776	Hilbert F L 3562	Hoehne F C 68	Hoogendoorn J 4921	Hseung Y 2378	
Herrmann H 2664	Hilbert F L 3563	Hoehne F C 1824	Hoogewerff H 10165	Hsu H L 8731	
Herrmann K 1008	Hilbert F L 8640	Hoekstra P 3976	Hook A van 8995	Hu S M K 6008	
Herter G 39	Hildebrandt A C 508	Hoerlein B F 4452	Hoon R C 6491	Hubbard C L B 4494	
Herter G 224		Hofer H 7567	Hooper A T 7705	Hubbard E R 7571	
Hertig M 5875					



	Item		Item		Item		Item		Item
Hubbard J E	8358	Hurwitz S	1058	Imlay F	9799	Inter-Regional	8505	Iterson G van	10221
Hubbard J L	1197	Hurwitz S	1307	inagaki K	5744	Livestock Pro-		Jr	
Hubbard J R Jr	1198	Husain S	8361	India Dept of	8992	duction and		Itle G	632
Hubbard L	8935	Husby M	3734	Agriculture		Marketing		Ito E	827
Hubbard M	42	Hush H	8573	Directorate of		Conference		Ito Y	715
Hubbell D S	2209	Husman C N	5648	Economics and		International	10026	Iudanov I M	701
Hubbell D S	2226	Husson C	2301	Statistics		Apple Associa-		IUnovidov A P	828
Huber A	9933	Hutcheson T B	9795	India Dept of Ag-	5368	tion		IUrkevich I D	2146
Huber M L	8930	Hutchings L M	5186	riculture		International	43	IUrkevich I D	2147
Hubert M	1679	Hutchings L M	5187	Directorate of		Congress of		Ivanoff S S	1133
Hubfk R	3845	Hutchings S S	5064	Plant Protec-		Botany		Ivanov A	6698
Huckel P	7904	Hutchings W H L	6987	tine and Storage		International	7907	Ivanov L A	10304
Huckenpahler	3181	Hutchinson C B	9796	India Dept of	10025	Cotton Advisory		Ivanov M F	5130
B J		Hutchinson J	1308	Commercial		Committee		Ivanov N M	3258
Huckett H C	5879	Hutchinson J	2423	Intelligence and		International	1310	Ivanov S M	829
Huddleson I F	4249	Hutchinson J	9448	Statistics		Grassland Con-		Ivanova B I	829
Hudelson R R	9212	Hutchinson K T	6924	India Directo-	7255	gress	9594	Ivanova Z V	5369
Hudson J	7905	Hutchinson K T	7430	rate of Eco-		Land Tenure		Ives M	7213
Huerta O R	10157	Hutchinson K T	9934	nomics and		Seminar		Ives P T	5881
Huff C G	6068	Hutchison C B	3852	Statistics		International	9595	Ivy E E	5439
Huffman R E	2668	Hutchison C S	7212	Indian Central	1199	Land Tenure		Iwade I	830
Huggins H C	6322	Hutchison C S	9797	Cotton Commit-		Seminar		Iwamura M	2331
Hughes	6205	Hutt F B	4670	tee	7985	International	7908	Iwamura M	3212
Hughes C E	2330	Hutt F B	4677	Indian Central		Wool Secre-		Iwata H	3657
Hughes C G	1456	Hutt F B	4923	Cotton Commit-		tariat		Iwata Z	843
Hughes D L	3851	Huttar J C	8937	tee		Invrea F	6207	Iwema S	3736
Hughes G C	5036	Hutton J	4678	Technological		Iofe N Sh	4924	Izeda H	4740
Hughes G K	992	Hutton J P	4574	Laboratory	7327	Ioffe R K	826		
Hughes J H	5266	Hutton K E	417	Indian Coffee		Ioganzen B G	10301		
Hughes P C	8732	Hyde E O C	924	Board	2143	Iowa Crop and	7257	Jaap R G	4679
Hughes R E	583	Hyde E O C	2085	Indian Tea		Livestock		Jablonski C F	7018
Hughes S J	259	Hyde G E	6323	Association		Reporting Serv	8838	Jacini G	3564
Huglin P	1660	Hyder E A	8953	Scientific Dept		Iowa Crop and		Jack J S	1624
Hugo W S	5043	Hyland K E Jr	5639	Tocklai Ex-		Livestock Re-		Jacks G V	2195
Huisman H J	7706	Hyler J E	3441	perimental		proting Serv	6985	Jacks G V	2781
Huisman M H	3733	Hyler J E	3442	Station	3134	Iowa Dept of		Jackson C H N	5882
Huisman T H	4637	Hyler J E	3443	Ineson F A	3356	Agriculture		Jackson D	8787
Huitema H	1304	Hyler J E	3444	Ingham A G	1826	Dairy and Food		Jackson H S	260
Hukui H	3432	Hyler J E	3507	Ingwersen W	1995	Div	2780	Jackson L B	8650
Hulburt W C	6677	Hyman J & Co	5365	Iniguez		Ipuca Aguerre		Jackson M L	2257
Hull A C Jr	1315	Hynam C A S	2779	Garcia J	2837	J	9603	Jackson M L	2273
Hull D	6695	Hynds C E	8547	Innes R F	3611	Iraci A	7165	Jackson N	1311
Hull F H	1433	Hyre F M	6535	Inose O	3325	Iragorri R C A	7258	Jackson N	7616
Hulme A C	802			Inoue K	5745	Iraq Principal		Jackson T H E	6264
Human J F	6673			Inoue Y	3471	Bur of Statis-		Jacob W C	2213
Humann J	4417	Iablokov V	9798	Inouye M	2144	tics	8707	Jacoboni N	831
Hume D L	7086	Iablonski V E	6766	Inouye Y		Ireland L	6622	Jacoboni N	1680
Hummel M	8239	Iachan A	8769	Institut des		Irving R	7785	Jacobs J	8648
Humphreys G	9998	Iagovkin A F	4150	Recherches		Irwin H S		Jacobs M B	8733
Humphreys M	7533	Iakimov A A	8991	sur le Caout-		Irwin W F	3853	Jacobsen D H	7642
Humphriss E	7707	Iakovlev A F	4639	chouc en	9269	Isaacs R L Jr	2376	Jacobsen H	156
Hünlich R	7906	Iakovlev A A	5743	Indochine		Isaacson C M	5529	Jacobson L	832
Hunt H M	6751	Iakovlev B	3182	Institute for the		Isaev S G	5188	Jacobson M	8438
Hunt K E	6984	Iakovlev M I	700	Study of Geogra		Isaev S I	10302	Jacobson N L	4151
Hunt M L	10300	Iakovlev P N	4250	Problems		Isaev S I	10303	Jacoby T	2510
Hunt R	9044	Iakushev V I	5528	University of		Isajev F	3735	Jacques-Félix	44
Hunter B	4638	Iakushkin I V	2508	Georgia	9602	Isamukhamedov	2963	H	
Hunter G J E	7708	Iaremenko P	2272	Institute of		M	3911	Jaffe W	1537
Hunter G J E	7709	Iarkov S P	8456	Farm Brokers	9310	Isbir S	3912	Jaffé W G	10166
Hunter H	8359	Ielpo J B	6118	Institute of		Isbir S	2602	Jahn H	261
Hunter M B	10091	Iglinsky W Jr	1059	International	9788	Isenberg F M	9311	Jahncke	5088
Hunter M C	4819	Ignacio P J	1060	Finance		Isenber G	6986	Jakobsen J M	2210
Huntington H	8836	Iino S	825	Inter-American		Ishaque H S M	2509	Jakobsen J M	2211
Huntley E	2142	Ii'inskiy A I	5366	Institute of	9281	Ishida H	6102	Jamalain E A	322
Huntley M	1825	Ii'inskiy A I	5367	Sciences		Ishihara T	6119	James E L B	5530
Huppert	2507	Iijima K	6324	Inter-American	9896	Ishihara T	5746	James H B	9497
Huq M M	4859	Illinois College	9145	Institute of		Ishii S	6441	James H B	9498
Hurd A	6696	of Agriculture		Agricultural	9896	Ishikawa H	3612	James L E	157
Hurd A	7429	Illinois Dept of	7783	Sciences		Isleib J R	9122	James M F	5165
Hurd L M	10111	Agriculture		Inter-American	9966	Isley F E	9711	James M S	2379
Hurd P D Jr	6206	Div of Foods		Institute of		Isley R T	9800	James W S	5370
Hurlburt R W	1305	and Dairies		Agricultural	2145	Israel Dept of	2964	James W T	4434
Hurlbut H S	6009	Illner F	9213	Sciences		Forests	7431	Jameson H R	4777
Hurlbut L W	6697	Ii'm'farv M M	4539	Inter-American		Italy Ministero	4540	Janchen E	95
Hurst F	1306	Ilon B	3384	Institute of		dell'Agricoltura		Janchen E	158
Hurst H	5980	Ilvessalo Y	3002	Agricultural		e delle Foreste		Jancke O	5640
Hurt B C Jr	1133	Imahori K	237	Sciences		Deposito		Jandolo E	9935
		Imlay F	8642	Technical		Stalloni di		Janér C O	9312
				Cacao Com-		Reggio Emilia		Janes R L	5983
				mittee					



Item	Item	Item	Item	Item	Item
Jang R 8087	Jeppson L R 5641	Jones B M 5642	Jungkunz R 8930	Kashimura D 3183	
Janis A 3054	Jessness O B 9450	Jones B S 10092	Junkins S C 2365	Kashintsev S 4047	
Janiszewski J 5189	Jesser M J 5641	Jones C 2912	Justo E 4927	Kashutin V N 6581	
Janjua N A 5984	Jewitt T N 1200	Jones C R 7134		Kas'fanov F 1134	
Jansen E F 8087	Jex W F C 2511	Jones E B 7544		Kas'fanov F 3346	
Jansen J 4815	Jgolen G 7279	Jones E B 7651	Kaarde I A 4256	Kasprzak E 3860	
Jansen J 4816	Jiménez de 9688	Jones F R 6752	Kác V 8244	Kastrukoff M S 3226	
Janssens A 5747	López G 3090	Jones G P 6013	Kadita S 3426	Kates K C 5091	
Janssens A 5748	Jindra J 2782	Jones I D 7229	Kadita S 3508	Katkov B P 1324	
Janssens E 5749	Jobberns G 2782	Jones J C 5751	Kadita S 3858	Katò R 597	
Janssonius H H 159	Joelson J 9451	Jones J H 4152	Kagan I S 7214	Kato S 3382	
Janssonius H H 160	Joglar 7055	Jones J H 4158	Kagis I 3092	Kaufmann W 7516	
Janssonius H H 633	Rodríguez F 7087	Jones J K N 7850	Kahila S 3565	Kaurichev I S 2272	
Janvry J C de 8734	Johannesburg 7087	Jones J K N 8073	Kahlenberg O J 8841	Kaussari M 6121	
Japan Dept of 9313	Produce Mar- ket	Jones J M 1317	Kajitch M 1478	Kawada M 3147	
Agriculture and Forestry Research Sect	Johannsen O 7910	Jones J M 4152	Kalacikov A T 2276	Kawase K 3608	
Jaramillo 9801	Johndrew O F Jr 8839	Jones J P 2332	Kalinenko I T 1436	Kayo T 269	
Alzate J 1681	Johns C K 7676	Jones L A 9100	Kallsvaart C 2670	Kay K 5375	
Jardine F A L 1681	Johnsen P 1314	Jones L A 9100	Kallbrunner H 3367	Kayser E 6799	
Jardine W 7710	Johnson A R 1045	Jones L M 3856	Kallio K M 1320	Kayser G 9123	
Jaretzky R 1012	Johnson B 4418	Jones L S 2281	Kalmar R 1061	Kazanfsev P 7503	
Jarnagin R A 6848	Johnson B C 5165	Jones L S 6173	Kalmar Läns. 10222	Kaz'min G T 1625	
Jarrett G 1312	Johnson B E 7038	Jones L W 5372	Södra Hushåll- ningssällskap	Kaznin M 2933	
Jarrett G 6735	Johnson C W 6474	Jones M P 5373	Kalshoven L G E 5374	Kearl C D 9537	
Jarrett I G 3854	Johnson E 6623	Jones R E 4891	Kalugin M I 1321	Keating F E 4152	
Jarvis C S 2086	Johnson E A 4680	Jones T A D 8643	Kalugin M I 1322	Kedde D L 6961	
Jarvis D C 10167	Johnson E L 4741	Jones T C 3857	Kamal S 7019	Keefe T J 4791	
Jarvis D C 10168	Johnson E W 1828	Jones T L 2512	Kamamoto H 901	Keegan H L 6066	
Jaškowski L 4218	Johnson F 420	Jones U S 2275	Kamamoto H 902	Keener G G 5994	
Jaškowski L 5163	Johnson F P 7911	Jones W 46	Kamenicky K 636	Keener P D 538	
Jasper D E 3855	Johnson H A 1133	Jones W W 751	Kamer J H 10169	Keeney A H 4819	
Jasspon W H 8735	Johnson H G 10027	Jong P de 323	Kamer von 6987	Keep J M 4459	
Jaswant Singh 6010	Johnson H W 3793	Jong S de 324	Koophandel en Fabrieken voor Zuid- Holland	Keestra F 7617	
Jauch C 418	Johnson J A 8393	Jong S H de 5044	Kamińska A 3859	Keestra F 7711	
Jauffret L 3670	Johnson J D 6580	Jonge 2669	Kamlah 3412	Kehr H 1325	
Jaumes L 8362	Johnson J L 6798	Jooste P E F 4742	Kammerer E L 1830	Kehren L 8739	
Jaureguiberry S 419	Johnson L E 1414	Jordan A T 1319	Kammerer E L 1831	Keilling J 7712	
Jayewickreme S H 6011	Johnson L E 8457	Jordan G L 9736	Kamp H J 5752	Keirstead C H 8785	
Jean H 5380	Johnson L R 1829	Jordan H E K 6494	Kamp J V 5531	Keissen L P 4928	
Jean-Mariet M 9802	Johnson L W 8375	Jordan H E K 6495	Kamp J V 5531	Keitt G W 372	
Jeberin H 3737	Johnson M 7786	Jordan H E K 6495	Kamp J V 5531	Keitt G W 1018	
Jeberin H 6797	Johnson M A 635	Jordan H E K 6495	Kamp J V 5531	Kelarev M P 1682	
Jeffries C D 2244	Johnson P A 2783	Jordan H E K 6495	Kamp J V 5531	Kelley A F 6947	
Jeffries C D 2274	Johnson P C 7572	Jordan H E K 6495	Kamp J V 5531	Keller A H 6699	
Jékiel N 4252	Johnson P T 6012	Jordan H E K 6495	Kamp J V 5531	Keller C O 161	
Jelenc F 223	Johnson R K 6762	Jordan H E K 6495	Kamp J V 5531	Keller H 6419	
Jelenc F 225	Johnson R N 8240	Jordan H E K 6495	Kamp J V 5531	Keller I W 3093	
Jellison W L 5089	Johnson S E 9646	Jordan H E K 6495	Kamp J V 5531	Keller J 3368	
Jelmoni E 6445	Johnson V W 9647	Jordan H E K 6495	Kamp J V 5531	Keller J C 8740	
Jelmoni E 7909	Johnson W A 2730	Jordan H E K 6495	Kamp J V 5531	Keller K R 1013	
Jenkin T J 1313	Johnson W D 8940	Jordan H E K 6495	Kamp J V 5531	Keller W 1326	
Jenkins A E 250	Johnson W M 1315	Jordan H E K 6495	Kamp J V 5531	Keller W 2672	
Jenkins B W 9314	Johnston B R 736	Jordan H E K 6495	Kamp J V 5531	Keller W 5533	
Jenkins D H 1827	Johnston H L 9803	Jordan H E K 6495	Kamp J V 5531	Kelley A P 836	
Jenkins F 8292	Johnston H W 7217	Jordan H E K 6495	Kamp J V 5531	Kelley G W 4583	
Jenkins L 5371	Johnston J R 1077	Jordan H E K 6495	Kamp J V 5531	Kelley G W 5086	
Jenkins L 6325	Johnston L 9804	Jordan H E K 6495	Kamp J V 5531	Kelley L T 7030	
Jenni E 4378	Johnston T R 9805	Jordan H E K 6495	Kamp J V 5531	Kelley O J 2206	
Jennings J 4925	Johnstone W F 7089	Jordan H E K 6495	Kamp J V 5531	Kelley O J 2968	
Jennings N 9226	Joiner C R 7502	Jordan H E K 6495	Kamp J V 5531	Kelley R B 4379	
Jennings S 4453	Joint Committee 10404	Jordan H E K 6495	Kamp J V 5531	Kellogg C E 2380	
Jenny J 4454	on Training for Government	Jordan H E K 6495	Kamp J V 5531	Kellogg C E 2859	
Jensch G 9604	Serv of the Asso- ciation of Land- Grant Colleges and Universities and the U S Dept of Agriculture	Jordan H E K 6495	Kamp J V 5531	Kellogg C E 9453	
Jensen C 7501		Jordan H E K 6495	Kamp J V 5531	Kelly A W Jr 3326	
Jensen D D 536		Jordan H E K 6495	Kamp J V 5531	Kelly P L 4380	
Jensen D D 537		Jordan H E K 6495	Kamp J V 5531	Kelly R A 8201	
Jensen H L 7259		Jordan H E K 6495	Kamp J V 5531	Kelly W H 2970	
Jensen H M 7432		Jordan H E K 6495	Kamp J V 5531	Kelman L K 9401	
Jensen P B 634		Jordan H E K 6495	Kamp J V 5531	Kelsheimer E G 6420	
Jensen P B 833		Jordan H E K 6495	Kamp J V 5531	Kelsick R E 1457	
Jensen P B 834		Jordan H E K 6495	Kamp J V 5531	Kelsick R E 2514	
Jensen R 2074		Jordan H E K 6495	Kamp J V 5531	Kelway C 1832	
Jensen W 3536		Jordan H E K 6495	Kamp J V 5531	Kemmerer A R 4765	
Jensma F 8993		Jordan H E K 6495	Kamp J V 5531	Kemp W S 1833	
		Jordan H E K 6495	Kamp J V 5531	Kempe J E 6328	
		Jordan H E K 6495	Kamp J V 5531	Kempster H L 8944	
		Jordan H E K 6495	Kamp J V 5531	Kemphorne O 4151	



	Item		Item		Item		Item		Item
Kenaga E E	5376	Kidwell J F	4048	Kitzmiller J B	6015	Kobel F	5537	Koroleff A	3128
Kenan W R	4048	Kiefer A	7575	Kitzmiller K V	5306	Koblet R	1330	Korolev A	7509
Kendall C E	8923	Kiehl E J	2515	Kivlin V E	9807	Kobusiewicz T	5192	Korolev A	7510
Kendall J R	7265	Kiehl E R	8574	Klaas	5191	Kobuski C E	163	Korsakova A	7521
Kendall J R	7266	Kiel Versuchs-	7713	Klackle R L	1613	Koch	1498	Kortleven J	2880
Kendall R G	2673	anstalt für		Klamer P H W	10029	Koch C R	5031	Korunov M M	3328
Kendrick J B Jr	336	Milchwirtschaft		Klang I I	1836	Koch H P	8924	Koseki T	3413
Kennard D C	4743	Kiely T B		Klang N	8423	Kocher S	6582	Kosikov K V	705
Kennard D C	4929		423	Klapp E	1329	Kocholaty R	8169	Kosswig C	5890
Kennedy L	4992	Kiessling C	8994	Klauditz	3589	Kodanev I M	1015	Koštanský K	5197
Kennedy W K	1327	Kikuchi S	3261	Kleber W	7328	Koehler B	425	Kostarev G K	5539
Kennedy W K	7794	Kikuth W	3861	Klein A K	7020	Koehn R C	8367	Koster J T	164
Kenney C H	8506	Kilby F A	5342	Klein A K	7021	Koenig M L G	1023	Kostin B V	7915
Kenney C H	8644	Killinger G B	1834	Klein H K E	4496	Koenig M L G	1024	Kostfuchenko V	8507
Kent-Jones D W	8364	Kilmartin E J	8995	Klenzade Pro-	7714	Koenig P	9045	Kostfuk N T	7304
Kent or Romney	5046	Kilpatrick M D	7040	ducts		Koeppner R	6881	Kostoff D	1332
Marsh Sheep-		Kimball F W	7546	Kliwer I O	4228	Koepsell H J	838	Kotitschke G	8716
Breeders'		Kimball J H	6014	Klimesch J	5257	Koerner A C	1838	Kotov V T	3866
Association		Kimball M H	1721	Klimov V I	2913	Koffsky N M	9141	Kotschwar A	3019
Kenya Dept of	10224	Kimble F	7576	Klimstra W D	6209	Kofranek A M	1839	Kott S A	2089
Agriculture		Kimble G	10391	Kline A	7166	Kogan S	6719	Kotukov G N	1138
Kenyon C	4820	Kimbrough W D	1835	Kline A B	7167	Kogstad K J	6651	Kovache A	5380
Kepner R A	6943	Kime J A	7056	Kline A B	7168	Kogutov D S	3184	Kovalin D T	3262
Keppel G E	8845	Kime J A	7913	Kline A B	7169	Köhler E	539	Kovax G G	6126
Keränen J	10390	Kimmins D E	6496	Kline A B	9148	Köhler H J	4537	Koyama R	843
Kercho M R	8276	Kimmins D E	6497	Kline A B	9317	Kohls G M	5089	Koyama T	6333
Kerd G J M	438	Kimmins D E	6498	Kline A B	9936	Kohls R L	3741	Koyama Y	49
van der		Kimmins D E	6499	Kline O L	7022	Kohls R L	8946	Koyasu S	2328
Kerimov G	7504	Kinashi K	3149	Kline O L	7023	Kohnke H	2424	Kozhanchikov I V	6334
Kerle W D	1135	King A S	1303	Klingebiel A A	2242	Kohnke H	2679	Kozhin N I	3150
Kernkamp H C H	5190	King B	4495	Klinger B	2074	Kohr L A	7577	Kozlovskii M I	8954
Kerr W E	5534	King C R	4681	Klinkovitzky S	1996	Kolde S	3445	Kraft M E	4314
Kerr W E	5535	King E J	1497	Klinkovitzky S	1997	Kolde S	3509	Kraft M E	4318
Kerr W E	6208	King G H	1137	Klintworth H	2603	Kolde S	3510	Kraft R	3605
Kersting	325	King G H	1328	Kliffchareva M V	637	Kolchin A I	3348	Kraft R	3607
Kersting	5754	King H	5377	Kloiber O	9606	Koldanov V A	2965	Krahmert R	4821
Kesler E M	4257	King H M	832	Klomprens W	811	Köll G	3614	Krahmert R	5106
Kesler E M	7505	King J O L	7506	Klöpping H L	438	Kölle H	8132	Kramarov I I	3186
Kessler F B	1186			Klostermeyer	6332	Koller R	3865	Kramer A	8170
Kessler F B	4187	King K W	4512	E C		Kolosova A V	1331	Kramer C	1627
Kettle D S	5885	King N	7507	Kloth W	9456	Kolosváry G	5644	Kramer R E	7779
Keune	9454	King N	7508	Kluge T O	8203	Koltermann	2088	Krantz E B	4542
Keune	10028	King R L	6422	Kluger M J	9547	Komarov N S	6583	Krantz F A	8201
Keune O	9546	King R L	5886	Klugow B	3327	Komazaki H	3561	Krapivner L M	4822
Keune O	7573	King V W	5886	Klute A	2213	Kondo I N	839	Krasnopeev M Z	5540
Keune O	7574	Kinget R	4381	Klychnikov V M	2852	Kondo Y	2942	Krasov V M	5193
Keyers G	2381	Kingma F J	3862	Kment A	3739	Kondrat'ev M	7329	Kratzer F H	4744
Keyo H A	3537	King's College	9532	Kment A	3864	Kondrat'ev M	6665	Kraus F J	3867
Keys A	10093	Farm Econom-		Knapp A	262	Konen J C	8742	Krause W	584
Keyser J S	10225	ics Br		Knapp J G	9937	König F	2517	Krauss G	7330
Keyworth W G	2148	King's College	3539	Knauer W	1998	Konfushkov N	1276	Krauss W E	4384
		Farm Econom-		Knickerbocker	10227	Konfushkov N S	1396	Krauss W E	10190
		ics Br		M E		Konopel'ko K G	8085	Kravchenko S F	6584
Khalifa A	6122	Kingscote A A	3863	Knight B C J G	2343	Konoplev N A	1586	Kraybill H R	8508
Khalifa A	6329	Kingsland A M	2674	Knight D A	9446	Konstantinov	840	Kraybill H R	8707
Khalifa A	6421	Kingsland A M	9455	Knight E P	8366	N M		Krebs K	3868
Khalturin S S	3977	Kingsolver C H	345	Knight F P	1837	Koontz L L	6736	Krehan H	8575
Khalturin V	6824	Kingston R S T	3641	Knight L	2516	Koopstra H	6900	Krehl W A	10080
Khan A H	1202	Kirby H	6500	Knipling E F	5379	Koot Y van	841	Kreitlow B W	9806
Khan A R	704	Kirby O B	6330	Knipling E F	5643	Koot Y van	1683	Kreitlow K W	426
Khan A R	1136	Kirby R H	7914	Knipling E F	5983	Koplin F	8368	Kretschmer K F	7331
Khan S	1136	Kirby R S	343	Knipling E F	5987	Kopparbergs	10228	Kreveld A van	7511
Khanna A L	647	Kircher W H	424	Knipling E F	5988	Läns Hushäll-		Kribben F J	844
Khemchandani	2345	Kiriakoff S G	6331	Knipling E F	5989	ningssällskap		Krickl M	2000
H T		Kirkham D	2203	Knipling E F	5989	Koppel C van	9318	Krider J L	3978
Khodos I A	5536	Kirkpatrick	8103	Knoett C	7618	Koppenfels von	2914	Kridler J L	5165
Khomkalov A S	6911	M E		Knoett C B	4257	Koppikar V B	3185	Kriebel M	6585
Khomutetskaf	7304	Kirkpatrick M G	10226	Knoop C E	7505	Kordé K B	48	Kriebel M	6802
M B		Kirkwood J	5240	Knopff	4050	Kordon R I A	1626	Krieg H	5755
Khotin A A	837	Kirschfeld P	3347	Knott J E	1999	Korea (Repub-	6989	Krieger F	1333
Khrapenko K I	3148	Kirste A	1062	Knowles T	4931	lic) Ministry		Kriegsmann T	9938
Khrapov I A	6548	Kirsten G	8741	Knowles T E	4682	of Agriculture		Kriesel H C	7433
Khrustovson N I	3227	Kisel'kov S	4382	Knowles T E	4932	and Forestry		Krings E	8509
Khrolkova V G	7332	Kishimoto S	3566	Knowlton C H	162	Korepanova G I A	4745	Krishnamurti B	6127
Khudov V G	422	Kisser J	3614	Knowlton G F	6123	Korfiakov F M	5538	Kristiansson I	8369
Khundanov L E	7545	Kitchen G B	8996	Knudsen A	3094	Korfiakov S I	842	Kroboth C	4993
Klang C	2087	Kitchin-Kerr	8202	Knudsen H	3740	Kormilev N A	6124	Krog H	5812
Kibe M M	1506	G E		Knudsen L F	7499	Kormilev N A	6125	Krollpfeiffer H	9155
Kidd E E	4930	Kitselman C H	5378	Kobayasi Y	263	Körnlein M	3875	Krombein K V	6210
Kidd F	8245			Kobayasi Y	638	Korobov V A	6901	Krone P R	2675
						Sorogod T T	4933	Kross J I	8133



Item		Item		Item		Item		Item	
Krueger W C	6536	Kvasnikov B V	428	Lane R D	3156	Lawhon G J Jr	4461	Lemons E	6130
Kruger H	5194	Kvasnikov E I	7332	Laneau R	7334	Lawrence C S	7241	Lemos P	2788
Kruger J C	2785	Kvščala B A.	540	Laney W	9809	Lawrence M	1843	Lempka A	7881
Kruger K	9712	Kyger F A	3689	Lang K	4261	Lawrence N S	1023	Lempke B J	6338
Kruijk P A	2001			Lang R L	1239	Lawrence N S	1024	Lempke B J	6339
Kruisbrink A M	1139	Laake E W	5892	Langdon R F N	264	Laws W D	2215	Lenert A A	4266
Kruk H	7715	Laake E W	5893	Langdon R F N	265	Lawson F A	5760	Lendle L	5384
Krum J K	8246	Laan E van der	1499	Lange M	266	Lawson F R	6167	Lenfant J	1540
Krupenikov I A	1684	Laan P A	6336	Lange W	7024	Lay K K	167	Lengerer E	8376
Krusekopf H H	2378	van der		Lange W E	2521	Lazarev A	6803	Leningrad Vete-	3877
Krüssmann	1840	Labriego J	1203	Langeler H	1842	Lazareva A G	707	rinarnyi	
Kryczko M	3104	Labuschagne A	5241	Langer E	814	Lazarus M	3874	Institut	
Kube	4258	Lachaud J	326	Langford W R	1334	Lazur G L	1063	Lenkelt W	3746
Kubliškafā M A	427	LaClair J B	10229	Langham R F	4262	Leach L D	542	LeNoir E	9811
Kubo T	3626	Lacourcière H	1685	Langlet E	10030	Leader T A	4052	Lentz	6652
Kubota S	3477	Lacourcière H	4385	Langman I K	10305	Leagans J P	9810	Leonard C D	847
Kučera P	2196	Lackmann H	9319	Lanham U N	6212	Leager M C	9082	Leonard W H	1079
Kuchar K	639	Ladeiro J M	5757	Lanfk J	3735	Leamer R W	2662	Leone G	9572
Kuckuck H	706	Ladejinsky W I	6930	Lanina A V	4051	Lease E J	8375	Leone I A	750
Kucyniak J	226	Ladewig J E	2786	Lannoy A	7918	Lebars H	4477	Leopold A S	585
Kucyniak J	227	Laemmert H W	6016	Lansade	429	Lebedev M P	3377	Lepage E	15
Kuehn	9179	Jr		Lansade	429	Lebègue A	642	Lepage E	169
Kuenen D J	6211	Laemmert H W	6017	Lantz E M	10163	Leben C	1018	Lepage H S	5385
Kugenev P	7512	Jr		Lapage G	3871	Lebreton F	2002	Lepage H S	5761
Kühl R	5891	La Face F	8743	Lapage G	4263	Lecat P	1019	Lepawsky A	2677
Kühn C	8370	Laffitte J C	2966	Lapazaran	2676	Lechauve P	8744	Lepesme P	5762
Kühn J	4259	Lafon J	7333	Beristain J		Leckie H K	7090	Lepesme P	5763
Kuhn L	5381	LaFond A	2214	Lapi E	2149	Leclerc M	4053	Lepine P	4824
Kuhn R	5756	Laforet M	9458	Rapidus S S	4585	Leclercq M	5895	Lepine P	5198
Kühnau J	3371	Lagaillarde J	5196	Lapko A	9516	Lecomte R	6587	Lepper H A	7335
Kühne H	8247	Lagaussie F de	6700	Laplante G M	9991	LeCompte G C	5132	Leredde C	91
Kuhne N	8622	Lagaussie F de	9940	Lapolla L	4264	Lecomte J	4994	Leredde C	267
Kuile J H ter	2518	Lagermalm G	6337	Lapshin M	5237	Lecomte J	5543	Le Riche F L H	8249
Kuiper J W	4934	Lagermalm G	7914	Largent R D	5031	Le Coq F	9668	Le Roi D	4825
Kuitert L C	6167	Lagrone W F	1204	Larkins R M	3427	Lecoyer M	1629	Leroy A	7434
Kufun G M	4543	Lahoz V	4823	Larmour R K	8366	Lederle Labo-	4386	Leroy A	7435
Kula S	4683	Laibach E	5758	La Rosa C	10031	ratories		Leroy M A	1845
Kulakov E V	2272	Laibach F	844	Larrea A	1686	Ledesma N R	1844	Leschner	3057
Kulash W M	6335	Lajdlaw H C	8372	Larsen A	6395	Ledingham R J	479	Leslie A P	2915
Kulczycki J	3869	Lakov V	7917	Larsen A B	3793	Lee H A	2787	Lesniak D S	3264
Kulke E	6586	Lal M B	4260	Larsen A B	3972	Lee H J	5065	Lespérance R	1336
Kumm H W	6016	Lal R	6128	Larsen H C	9100	Lee R L Jr	7998	Lestaing J	8251
Kumm H W	6017	Lal S B	8086	Larson A L	8346	Leechman D	2150	Le Testu G	53
Kummer von	4544	Laland S	8373	Larson J	464	Leeds Univer-	9460	Létourneau F	9321
Küng H	9939	Laloux R	582	Larson J	1602	sity		Leukel R W	430
Kunkel R	2519	Laloux R	1444	Larson J D	1458	Dept of Agri-		Leupold U	643
Kunkle L E	8510	Laloux R	1444	Larson J S	7114	culture		Leuver P	7619
Kunz H	165	LaMar G A	5159	Larson R H	541	Economics		Lévada A	6446
Kunze F M	5419	Lamarque	166	Larson W E	2277	Sect		Leveck H	4154
Künzel M	1140	Lamb G N	3615	Larsson N G	10412	Leenheer L de	2382	Levenbook L	5896
Kuperman F M	1141	Lamb G W	9941	Larthe R	8171	Leenheer L de	2383	Levenbook L	5897
Kuperstein A	3870	Lamb I H	5131	Larue P	8029	Leeper H M	8937	Léveque P F	1722
Kupka E	640	Lamb K P	5759	Larue P	10032	Leeper P W	1197	Leverton R M	10095
Kurganova M I	970	Lamb M W	10094	Lascrain y	2967	Lees A D	5382	Levine M	848
Kurin N V	3385	Lambeth V N	845	Oslo A		Lees C B	2151	Levine N D	4826
Kurjana R	4796	Lamborn E W	7651	Lash E	3873	Lefebvre J	4054	Levoshin V K	1687
Kurosasa A	49	Lamborn E W	9563	Lát J	5197	Lefort	10033	Levy G A	5090
Kurose S	204	Lamborn E W	96	Latham B	3020	Legendre G	4153	Levy E B	210
Kuroyanagi S	3640	Lamerson V	4460	Latham G H	5542	Le Genissel-	168	Levy E B	1337
Kurtze H	4584	Lamont H G	8293	Latif A	6129	Homolle		Levy F	7144
Kurtze H	5195	La Mont T E	7170	Latting E T	4640	Leghis L M	3744	Levy W J	3558
Kusaka M	2520	Lamour P	3188	Lattner E J	6763	Legrand J J	5645	Lewallen L L	5898
Kuschke B M	6882	Lamprecht H	1017	Laud D S	7215	Lehker G	1476	Lewandowski M	5199
Kushner Kh F	4745	Lancaster C R	1017	Lauer K	7919	Lehmann H	9320	Lewis A B	9322
Küster E	641	Lancaster E B	1841	Lauerbach H	9125	Lehmann S	5544	Lewis D	1541
Kutish F A	9457	Lancaster M	3743	Laug E P	5419	Leiboff R O	3745	Lewis G	4462
Kutish L J	3742	Lancaster R J	9124	Laumonier R	1628	Leibundgut H	2830	Lewis L H	8672
Kutish L J	7806	Land and Agri-		Lauray J	10170	Leigh D	8250	Lewis R A	7336
Kuzin A M	1016	cultural Bank		Laurie	9066	Leigh J N	4879	Lewis T H	4420
Kuz'min V	4935	of Southern		Lautenschlager	50	Leighton A	7716	Lewis W A	2216
Kuz'min V P	1142	Rhodesia		Lavezzini A	1538	Leighty W J	2384	Leyendecker C E	2226
Kuznets G M	8104	Land Settlement	9459	Lavezzini A	1539	Lein A	1144	Leyer H	8599
Kuznetsov A	3979	Association		Lavezzini V	1143	Lekkerkerker	6949	Leyvraz H	327
Kuznetsov B A	8645	Landauer W	5047	Lavezzini V	1335	P J		Lezhava V V	868
Kuznetsov D V	3386	Landbeck F	5541	Lavezzini V	8374	Le Maistre W G	5518	Lezhepekov S A	2003
Kuznetsov S E	3187	Landbouw-	9548	Lavezzini V	8248	Leman V M	846	Lherbat H	7337
Kuznetsov S E	3263	Economisch		Lavollay J	51	Lembke A	3875	Liámin A I	7338
Kvaal L	9808	Instituut		Layrenko E M	52	Lemetayer E	4586	Libby C E	3538
		Landolfi J M	8078	Layrenko E M	52	Le Minor S	4806	Libby H E	9462
		Lane J	5945	Layrent'ev P A	4265	Lemmon A B	5383	Libes R	1630
		Lane J E	6537						



	Item		Item		Item		Item		Item
Libowitzky A	1946	Llorens M A	3671	Lowe B	7231	Lynd J Q	2280	McDuffie W C	5995
Library Association	9323	Lloyd J R	1269	Lowegren G	3023	Lyness R N	5405	MacEachron P A	8383
County Libraries Sect		Lloyd N C	6342	Löwenfeld R	9026	Lynn H P	6624	Macedo J N	5646
Liebel L N	8745	Lloyd R	6737	Lower E S	8513	Lyon H L	8997	McElvare R R	6343
Lieberman F V	5568	Lloyd W J	3129	Lowit J C	8514	Lyon R O	5229	McEvoy E T	2524
Liebermann J	6423	Lloyd-Thomas W	4746	Lowrey G W	2522	Lyon Centre National de	330	MacEwan G	10413
Liebermann J	6424	Lobanov G A	953	Lowry B	4587	Défense Contre la Grêle		M'Ewen E	6594
Liebermann J	6425	Loch R	8378	Lowry R K	8623	Lyons T	5773	McFarland F E	1849
Lieftinck M A	6501	Lochry H R	7747	Lowstuter A B	7114	Lyons W H	9713	McFarlane J R	8998
Lieftinck M A	6502	Lockenvitz K	6850	Loy H W Jr	8152	Lyons W H	9713	McGaha M E	8135
Liegeois F	3878	Locsin C L	1459	Loy H W Jr	7025	Lysenko T D	1064	McGee W R	4583
Liener I E	8377	Logan J A	7241	Loza V M	7026	Lysgaard C P	2211	McGillivray K D	1588
Lienhart E	4267	Logee J L	2185	Lozovoy A A	2972	Lyssand P	1500	McGillivray D I	1010
Lienhart R	4421	Loginova N V	5048	Lozovoy A A	3265			McGirr J L	7134
Lightsey O	3369	Logman H	4685	Lubbers R	5545			McGivern J	8646
Lijsten R	1631	Lohr H	6653	Lubrano U	8515	Maas J	7925	McGovran E R	5394
Lilles J L	10230	Löllichon M	6588	Luca Y de	5793	Maass A A	2681	McGregor E A	5649
Lillard R G	54	Lomas J	8379	Lucas B F	3130	McAdams J H	8849	McGregor J K	4829
Lilly J H	6340	Lomax J W	5999	Lucas J A W	238	McAllister B	9817	McGregor R L	218
Lilly J H	6341	Lomax J W	5999	Lucas S W	6926	McAlpin D M	858	McGregor W G	2004
Lima A D F	431	Lombard P M	6154	Lucas S W	9814	Macan T T	6020	McGurk J L	9549
Lima F O	5993	Loncin M	7216	Lucas W C	4687	McArdle A A	4688	Machado A V	4269
Limasset P	328	Lond V	1339	Lucas W C	4936	McArdle A A	4937	Machado A V	5200
Lind A	9942	London P	9608	Luce W A	855	McArdle R E	5647	McHardy L J	9648
Lindgren C C	708	London Royal College of	3879	Luchi M	1145	McArthur R A	2975	McHenry S L	6625
Linden L van der	5386	Veterinary Surgeons		Ludckner H graf	6772	McBeth C W	3534	MacIlraith J J	4748
Linder P J	872			Lüdecke	1460	McCabe B C	7171	McIlraith W J	859
Lindgren E	4545	Long J	4677	Ludvigsen F P	3095	McCabe E T	999	McIlvaine E H	1413
Lindgren I	2968	Long M C	7040	Ludvig G F	6019	McCabe S B	2385	McIlvaine E H	1414
Lindner A F	8548	Long W G	381	Ludwick R W	7795	McCall W W	2523	Macindoe R H F	4270
Lindquist A W	6018	Longmore T W	9573	Ludwick T M	4016	McCall W W	2860	MacIntire W H	2281
Lindquist B	3021	Lonnquist J H	710	Luetkemeier	2679	McCalla T M	2335	MacIntire W H	2282
Lindsay C	9755	Loombe C A	3380	O W	4817	McCarthy D	4056	McIntosh D C	9819
Lindström J R	8511	Looney Z M	7997	Luginbuhl E	5764	McCartney G T	7241	McIntyre A C	3357
Line Weaver H	8087	Looper M M	10171	Lukash I I	7547	McCay C M	4434	McIntyre A C	3497
Line Weaver H	8831	Lopes H de S	5646	Luke H A	3189	McClain E B	7436	McIntyre A C	3590
Lingard H T	9100	Lopez-Aranda A E	9156	Luk'ianov A K	3266	McClay T A	3137	McIver J	10364
Linke-Crawford E	7920	Lopez Arias A	5049	Luk'ianov B N	2935	McClean C M	7718	McIver W L	6951
Linser H	849	Lopez	6589	Luk'ianov N	7717	McClellan J C	3024	McKay A W	8136
Linser H	2090	González J		Luk'ianov P I	3748	McCleskey C S	5547	Mackay Mrs D	3980
Lionberger H F	9812	López Laborda J	4747	Lull H W	2680	McClure W W	9818	Mackay J W	8955
Lions F	850	López Llanes L	2678	Lumry R	943	McCollum W H	4795	McKaye B	9649
Lipes V E	1338	López	9690	Luna Ercilla C A	1587	McCollum W H	4795	McKee I	10308
Lipio A V	6868	Villamil H		Luna Ercilla C A	7922	McComb A L	8925	McKee J E	5548
Lipka W	3428	Lopyrin A I	5048	Lund R G	7923	McCone W	2237	McKenney G R	1850
Lipka W	3429	Lord D	2969	Lund S	239	McCord H	4046	McKennon F	10227
Lipnicki J	4268	Lorenz F W	8947	Lundblad K	7924	McCord H	7789	MacKenzie A J	2263
Lippmann K	9463	Lorenz O A	1999	Lundegårdh H	2279	McCord M P	10362	MacKenzie C D	3763
Lips H J	8746	Lorkiewicz Z	3980	Lundegårdh H	856	McCormack A V	2789	MacKenzie P K	7437
Lips H J	8747	Lorkiewicz Z	4595	Lundie A E	857	McCormick C J	9984	MacKenzie W	9216
Lisichkin S I	3376	Lositskij K B	3228	Lunding F J	5546	McCormick C J	9325	Mackerras I M	5900
Lisfütina N I	709	Lott E J	2934	Lundstad A	8516	McCormick C J	9326	McKinley C	9714
Lissner W	9607	Louisiana Dept of Agriculture and Immigration	7788	Lung P H	1848	McCormick C J	9326	McKinley E	7217
Littauer F	432	Louisiana Dept of Education		Lung P H	6154	McCormick C J	9326	McKinney J	2426
Littauer F	433	Institutional On-Farm Training		Lung P H	6154	McCormick C J	9326	McKinney J	6721
Little C C	10034	Louisiana Dept of Education	9813	Lung P H	6154	McCormick C J	9326	McKintosh D L	8600
Little P A	4927	Forestry Commission	2970	Lung P H	6154	McCormick C J	9326	McKintosh H	6991
Littlejohn A I	5092	Lousse A	3747	Lung P H	6154	McCormick C J	9326	McKlin H P	4689
Littlejohn A I	5093	Loustalot A J	854	Lung P H	6154	McCormick C J	9326	McKnight T	2336
Litton G W	5133	Louvel M	3022	Lung P H	6154	McCormick C J	9326	McLane S	1501
Litton G W	8512	Love H C	9446	Lung P H	6154	McCormick C J	9326	McLaren J P	6066
Litvin G	6447	Love R M	644	Lung P H	6154	McCormick C J	9326	McLarty H R	860
Litvinenko A	2581	Loveland J E	8948	Lung P H	6154	McCormick C J	9326	McLay M H	4271
Litwiller E M	8252	Lovelock B	1847	Lung P H	6154	McCormick C J	9326	MacLean A A	2525
Lubashenko S A	4517	Loving F W	10307	Lung P H	6154	McCormick C J	9326	MacLean A J	2004
Livens J	2217	Lövmo J E	2971	Lung P H	6154	McCormick C J	9326	MacLean A J	2526
Livet L	4684	Low A S	1205	Lung P H	6154	McCormick C J	9326	MacLean A J	2820
Livingston A L	3699	Low A S	7921	Lung P H	6154	McCormick C J	9326	McLean E O	2283
Livingston G A	851	Löw I	5756	Lung P H	6154	McCormick C J	9326	McLean G K	3591
Livingston K W	2923	Low P F	2278	Lung P H	6154	McCormick C J	9326	McLean N A	435
Livshits L	6804			Lung P H	6154	McCormick C J	9326	McLees J A	3329
Llyanage D V	299			Lung P H	6154	McCormick C J	9326	McLeod D	9650
Llyanage D V	852			Lung P H	6154	McCormick C J	9326	McLeod D	9932
Ljones B	10306			Lung P H	6154	McCormick C J	9326	McLeod R A	621
				Lung P H	6154	McCormick C J	9326	McLernon J	9550
				Lung P H	6154	McCormick C J	9326	McLure J H	7993
				Lung P H	6154	McCormick C J	9326	McMahon G	10096
				Lung P H	6154	McCormick C J	9326	McMahon M L	10035
				Lung P H	6154	McCormick C J	9326	McMahon P R	7926
				Lung P H	6154	McCormick C J	9326	MacMillan D M L	4057



Item	Item	Item	Item	Item	Item
McMillan G 7438	Malcolm J P 1147	Manunta C 6131	Martin J 4156	Matsui Y 3060	
MacMillan W G 7927	Malcolmson J D 7145	Manunta C 6132	Martin J A 1437	Matsui Y 3151	
McMillen W 9327	Maldonado A 2285	Many H G 7921	Martin J P 2529	Matsumoto T 3152	
McMullen L 7341	Maletto F 4059	Manzano M 7146	Martin L S 7241	Matsumoto T 3644	
McMurtrie D H 3609	Maleture G 8384	Manzini P 9181	Martin P 7652	Matsumoto Y 3193	
McNall F J 8850	Malezieux R 9180	Manzini P 9182	Martin P T 7928	Matsushita T 3154	
McNally A M 7030	Malfatto P 7343	Mapes J M 4389	Martin R 1343	Mattano L A 4249	
McNally E 8137	Mallani C 1148	Mapp L C 7578	Martin R 6539	Matthes W F 8458	
McNally E H 8868	Mallani C 1149	Mappelbeck J 10235	Martin R 6656	Matthews C A 4325	
McNally J A 3387	Malik A M 9328	Maqsood M 5096	Martin R 6703	Matthews J W 1502	
McNally M 6538	Malinovskii A V 3025	Marangoni L 3592	Martin S W 9824	Matthews R E F 541	
MacNeill N 6503	Malinovskii B A 1065	Maranhão Z C 5766	Martin S W 9692	Mattingly P F 6025	
MacNeill N 6504	Malinvaud E 8204	Marbach W 8386	Martin W G 2976	Mattson W R 2936	
McNulty G 2682	Malkina R I 7304	Marc B 439	Martin W H 7720	Mattoso I V 8072	
McNulty G 2683	Mallamaire A 5388	March R B 5901	Martin W J 7993	Matvienko M I 1692	
McNulty G 5549	Malmöhus Läns 9946	Marchán F 3764	Martin W M 7223	Maughan G H 8388	
McPhee J A 9820	Hushällnings-sällskap	Marchán F J 4171	Martin W R Jr 8139	Maumené A 10310	
McQueeney C R 586	Malmöhus Läns 10233	Marchenko F D 1150	Martin W W 4062	Maurer H 5783	
McQuilkin W E 332	Skogs- och Betesvårds-förening	Marchesi J M 2686	Martin 7721	Maurer K J 1723	
MacRae T F 10097	Malone C M 3749	Marchettano E 6852	Alonso M 6021	Mauri N 5393	
McReynolds 4387	Malphrus L D 8138	Marchi V 1151	Martínez A 6024	Mauthe J L 1854	
Macri G 4463	Malss W 2091	Marchionatto J B 5390	Martínez A 2010	Maw W A 4721	
McRoberts L H 7027	Malta Collector of Customs and Superintendent of Ports 10036	Marcilla 1690	Martínez F A 3058	Maw W A 4791	
Macself A J 1851	Maltais J B 6085	Marcilla 7790	Martínez M 5392	Maxwell E G 3061	
McSpadden W B 4058	Maltby L M 10098	Marcq J 4060	Martínez R 2688	Maxwell J L 3559	
MacViccar R M 1341	Mal'tsev K 6702	Marenkov M N 2008	Martínez 8140	May A E 10311	
McWhorter F P 436	Mal'tsev K 9465	Marescalchi A 7345	Martini I 4831	May A W S 5923	
McWhorter F P 543	Mal'tsev M P 3190	Mariano E 2009	Martinie J D 3593	Maycock S A 9466	
Macy I G 10116	Maluck P 9822	Marias J 9691	de la 2008	Mayer 4274	
Madec P 2005	Mamay S H 57	Marín Martínez A 4588	Martins A V 4580	Mayer E H 7347	
Madigan J J 8601	Manchester University 9551	Marinet 2687	Martins C M A 3594	Mayer E L 5394	
Madras 2684	Manchester University 9551	Marini G M 4273	Martins M M 2881	Mayer M 4391	
Presidency Public Works Dept	Manchester University 9551	Marinucci M 9330	Martinson D C 2218	Mayéras R 1632	
Madsen H F 5387	Manchester University 9551	Markhof G M 7220	Martinval R 7346	Mayfield F D 2691	
Maekawa F 645	Manchester University 9552	Markin M I 1691	Maruyama M 3382	Maymone B 3750	
Maercks H 5765	Manchester University 9552	Markos B G 6022	Masani N J 3498	Maynard L A 10142	
Maes E E 9821	Agricultural Economics Dept	Markowicz E 7221	Mashinskaf L P 3267	Mayoral J E 9000	
Maestro Paló F 7342	Economics Dept	Marks E N 6023	Mashkina A F 4390	Mayoral Reinat A 9948	
Maffre R 9609	Economics Dept	Marks K 6655	Masi L 6213	Maywald F 8749	
Magalhães O de 5650	Economics Dept	Markstein D 6591	Maškova J 865	Mazur M A 3194	
Magee C J 544	Economics Dept	Marloth R H 862	Mason E E 8851	Mazurak A P 2219	
Magee R A 1013	Economics Dept	Marlow H W 4830	Mason J J 8141	Mazzeno L W Jr 7957	
Magie R O 333	Economics Dept	Marnef L 5902	Mass D 1344	Mazzini C A 4833	
Magie R O 437	Economics Dept	Marnett L F 8387	Mass D 1345	Mazzocchi 9331	
Magie R O 1952	Economics Dept	Maron N 7029	Massacesi A 1152	Alemanni N 9610	
Magliano A 3881	Economics Dept	Marquardt H 3192	Massey A B 97	Alemanni N 7866	
Magnin G de 10392	Economics Dept	Marr R 1853	Massey L M 343	Meadows B 5160	
Magnusov D S 1689	Economics Dept	Marsal J 9157	Massieu H G 10157	Meadows G B 5160	
Maguire B 171	Economics Dept	Marsden S J 4690	Massino V B 4157	Means R H 4154	
Mahadevan C 10309	Economics Dept	Marsh J C S 6344	Massironi G 3672	Means U M 2323	
Maher C 2790	Economics Dept	Marshall C E 2287	Massot R 6806	Meany J A 7723	
Maher R 6654	Economics Dept	Marshall D S 5351	Masterman J 5550	Meara M L 8720	
Maheu C F 3511	Economics Dept	Marshall F R 9553	Masterston F H 8852	Medawara M R 1021	
Mahood I 3003	Economics Dept	Marshall Sir G A K 5767	Matagrín A 8748	Medeiros 4275	
Maiden A M 8939	Economics Dept	Marshall Sir G A K 5768	Matejka F W 8927	L T N S de 7173	
Maille M 991	Economics Dept	Marshall J 8031	Matela A G 9325	Medici G 9332	
Mais R 2604	Economics Dept	Marshall L M 863	Matelsky I 8259	Medici M 5551	
Maltan D 7091	Economics Dept	Marshall L M 7439	Matejka F W 8927	Medici M 5552	
Makarova A G 1342	Economics Dept	Marshall R M 2338	Matela A G 9325	Medici M 5553	
Makarova A I 2152	Economics Dept	Marshall W R Jr 7222	Matelsky I 8259	Medici M 5554	
Makhlin E A 6701	Economics Dept	Marshall W R Jr 7222	Matejka F W 8927	Medici M 5554	
Mäki A 9085	Economics Dept	Marshall W R Jr 7222	Matela A G 9325	Medina G 6214	
Makings S M 9464	Economics Dept	Marshall W R Jr 7222	Matelsky I 8259	Medinefs V D 866	
Makoed L E 6805	Economics Dept	Marshall W R Jr 7222	Matejka F W 8927	Medvedev P F 2154	
Makoveev P G 3415	Economics Dept	Marshall W R Jr 7222	Matela A G 9325	Meek W E 1206	
Makridin-Chesnokov A I 9507	Economics Dept	Marshall W R Jr 7222	Matelsky I 8259	Meek W E 6765	
Maku T 3642	Economics Dept	Marshall W R Jr 7222	Matejka F W 8927	Meel C J van 9001	
Malakhov I P 4388	Economics Dept	Marshall W R Jr 7222	Matela A G 9325	Meesters C F T 3026	
Malavasi L 4546	Economics Dept	Marshall W R Jr 7222	Matelsky I 8259	Meewis A 2220	
Malavolta E 2284	Economics Dept	Marshall W R Jr 7222	Matejka F W 8927	Mehl P 8853	
Malaya Dept of Statistics 7260	Economics Dept	Marshall W R Jr 7222	Matela A G 9325	Mehlich A 2257	
Registrar of Malayan Statistics	Economics Dept	Marshall W R Jr 7222	Matelsky I 8259	Mehlich A 2288	
	Economics Dept	Marshall W R Jr 7222	Matejka F W 8927	Mehra P N 647	
	Economics Dept	Marshall W R Jr 7222	Matela A G 9325	Mehring A L 2894	
	Economics Dept	Marshall W R Jr 7222	Matelsky I 8259	Mehta D R S 2869	
	Economics Dept	Marshall W R Jr 7222	Matejka F W 8927	Mehurin R M 8545	
	Economics Dept	Marshall W R Jr 7222	Matela A G 9325	Meidell A 3539	
	Economics Dept	Marshall W R Jr 7222	Matelsky I 8259	Meierson R F 1153	
	Economics Dept	Marshall W R Jr 7222	Matejka F W 8927	Meijer W 228	



Item	Item	Item	Item	Item
Meljer W 648	Merrill E D 99	Midgley A R 2882	Ming P E 9669	Moine G 1937
Meikeljohn G 6066	Merrill L P 1346	Midorikawa T 2520	Minguzzi L 1693	Moiseev N F 6809
Meikle R D 173	Merrill R M 6659	Midtliid S 4064	Minguzzi L 1857	Mokower R U 8088
Meikle W L 6657	Mertens W 6593	Midtliid S 5138	Minguzzi L 2012	Molander E G 6891
Meilland F 1855	Mesa Carrión F 5904	Midwest Barley Improvement Association 1156	Minin D 3269	Molano 8753
Meiners 4497	Meschter E E 8172	Mighell R L 8809	Minochi T 6215	Campuzano J A 2221
Meinhold W 7174	Meshalova A D 5396	Miglicovsky B B 4835	Minor C O 3153	Molchanov A A 176
Meiser J A Jr 7724	Mesnler P 2532	Migita N 3617	Minshall W H 816	Moldenke H N 8957
Meissner F E 6592	Mesnil L P 5905	Migliano M F 4464	Minsk Bela-ruskaja Akademiia Navuk Instytut Lesa 3099	Molenaar A 7579
Mejfa J M 9517	Messenger K 5397	Migilevich M 7726	Minut J 7441	Molfino J F 2158
Mejla Franco R 2155	Messerschmidt 4063	Mikailov M A 4465	Minutillo C 3309	Molina A S 4592
Melander A L 5903	Messieri A 4590	Mikailov M A 1207	Minz G 441	Mollins J 7354
Melander Y 5013	Mestre Artigas C 7350	Mikeš J 1542	Minz G 442	Moll F 3446
Melin E 867	Mesu F P 9334	Mikheev K T 9218	Minz G 443	Moll F 3472
Meller S 2011	Metcalf R L 5398	Mikheev S D 3416	Miquel y Cuscd J 9127	Molland R 9219
Mello E M 2791	Metcalf R L 5901	Mikkelsen V M 58	Mira G 9339	Möller E F 7517
Mello M J de 4597	Metcalf Z P 6134	Mikkelsen V M 587	Mira Izquierdo L 10037	Moller A E 1463
Mello M T de 3884	Meeter J W 3131	Mikklessen J C 1856	Mira Izquierdo L 10038	Moloney J F 8754
Melo E M de 2531	Métivier S 8390	6508	Miranda F 4836	Molotkov P I 3620
Melton A A 4158	Métlitskii L V 1036	8391	Mirantz M 3590	Monachino J 1025
Melvin A 4498	Metz F 9335	9337	Mironov F E 3195	Monaci M 1158
Memória J M P 3885	Metz H 10116	Mirzayan H 6082	Mironovich I K 3270	Moncrief J B 4188
Memphis (Tennessee) Merchants Exchange Clearing Association 8750	Meunier P L 7984	Mirzoián A I 2013	Mirzoián A I 2013	Moncrief T E 4938
Menagarishvili A D 868	Meurling M 9828	Mishanec W 694	Mishin G M 4547	Moncrieff R W 6346
Mendes C T 2156	Meuszyński S 5201	Mishanec W 694	Mishin G M 4547	Moncrieff R W 7932
Mendes C T 2157	Mexico 1129	Mishanec W 694	Mishin G M 4547	Money L L 651
Mendes C T 2388	Mexico (City) 9336	Mishanec W 694	Mishin G M 4547	Monfore K E 8394
Mendes C T 9651	Biblioteca Benjamin Franklin 9336	Mishanec W 694	Mishin G M 4547	Monin A 1543
Mendiola N B 1462	Meyer A 3751	Mishanec W 694	Mishin G M 4547	Monod C 8755
Mendiola N B 1503	Meyer A B 2927	Mishanec W 694	Mishin G M 4547	Monod T 177
Mendoza Instituto de Investigaciones Económicas y Tecnológicas 1717	Meyer C H 8346	Mishanec W 694	Mishin G M 4547	Monod T 5771
Menezes F G T 8695	Meyer E 4277	Mishanec W 694	Mishin G M 4547	Monot G 2014
Menezes O B de 1154	Meyer E 4591	Mishanec W 694	Mishin G M 4547	Monot G 2015
Menezes R B de 9949	Meyer F 6807	Mishanec W 694	Mishin G M 4547	Monroe C F 4383
Menezes R B de 9950	Meyer F 6808	Mishanec W 694	Mishin G M 4547	Monroe C F 9554
Menezes Júnior J B F de 7348	Meyer M C 5651	Mishanec W 694	Mishin G M 4547	Monroe J A 8253
Mengebier 7725	Meyer W 869	Mishanec W 694	Mishin G M 4547	Monselise S P 373
Menger A 9389	Meyer W G 7351	Mishanec W 694	Mishin G M 4547	Monselise S P 1592
Menis Y 6674	Meyer-Wegelin H 3097	Mishanec W 694	Mishin G M 4547	Monsen K J 7643
Mennicke U 4223	Meyerink W E 3268	Mishanec W 694	Mishin G M 4547	Monserrat J 7355
Menon H B 1590	Meys M Q v d 1711	Mishanec W 694	Mishin G M 4547	Monserrat J 7356
Menon M A U 6026	Mezenfsev V 10236	Mishanec W 694	Mishin G M 4547	Montagna W 5014
Menon M S 9126	Mezerik A G 6928	Mishanec W 694	Mishin G M 4547	Montagne R 9612
Menzies J D 440	Mézy J 6660	Mishanec W 694	Mishin G M 4547	Montagne R 9613
Menzies J D 545	Mézy J 6675	Mishanec W 694	Mishin G M 4547	Montagne R 9614
Mercer E H 7929	Mezzetti A 268	Mishanec W 694	Mishin G M 4547	Montali M 4938
Mercier E 9826	Mezzetti A 504	Mishanec W 694	Mishin G M 4547	Montana Hereford Association 4066
Mercier J 9217	Miagkov N V 1155	Mishanec W 694	Mishin G M 4547	Montanari V 2694
Mercier N 5147	Miagkova O 5148	Mishanec W 694	Mishin G M 4547	Montanari V 2695
Mercier N 9518	Michálek J 4834	Mishanec W 694	Mishin G M 4547	Montanari V 8035
Mercier P 3911	Michel G 7029	Mishanec W 694	Mishin G M 4547	Montanari V 8395
Mercier P 3912	Michelbacher A E 335	Mishanec W 694	Mishin G M 4547	Montanari V 9086
Merck & Co 9105	Michelbacher A E 6135	Mishanec W 694	Mishin G M 4547	Monte T de 5772
Meredith W O S 7349	Michelbacher A E 6136	Mishanec W 694	Mishin G M 4547	Monteiro M 4500
Merendi A 9611	Michelbacher A E 6345	Mishanec W 694	Mishin G M 4547	Montenegro 874
Merewether 3616	Michelmores R J 2792	Mishanec W 694	Mishin G M 4547	Montero F 9574
Merfield A G 1504	Michigan Dept of Conservation 3330	Mishanec W 694	Mishin G M 4547	Montero 3981
Mergen 9827	Michikawa K 2328	Mishanec W 694	Mishin G M 4547	Fernandez A 4067
Merikallio E 2916	Michot P 7440	Mishanec W 694	Mishin G M 4547	Montgomery G A 1544
Merilan C P 4276	Mickelsen O 10093	Mishanec W 694	Mishin G M 4547	Montgomery 7261
Méritens 8033	Mickevicz M J 7352	Mishanec W 694	Mishin G M 4547	Montgomery R A 7997
P de B de 9333	Micks D W 6027	Mishanec W 694	Mishin G M 4547	Monti V B 6738
P de B de 9333	Middelburg H A 2533	Mishanec W 694	Mishin G M 4547	Montmagny C 3673
Merksenschlager F 5395	Middlekauff W W 335	Mishanec W 694	Mishin G M 4547	Monzini A 2353
Merker E 5770	Middlekauff W W 6135	Mishanec W 694	Mishin G M 4547	Moodie C D 2662
Merkulov M D 6658	Middlekauff W W 6136	Mishanec W 694	Mishin G M 4547	Moody G S 6661
Merlin M 2692	Middlekauff W W 6345	Mishanec W 694	Mishin G M 4547	Mookerjea D 2793
Merrick E 9567	Middlemiss E 6540	Mishanec W 694	Mishin G M 4547	Moolani M K 9340
	Middleton G K 711	Mishanec W 694	Mishin G M 4547	Moore A C 4939
	Middleton J T 336	Mishanec W 694	Mishin G M 4547	Moore A C 4940
	Middleton K R 1200	Mishanec W 694	Mishin G M 4547	Moore A C 4941
		Mishanec W 694	Mishin G M 4547	Moore A C 6626
		Mishanec W 694	Mishin G M 4547	Moore A C 9555
		Mishanec W 694	Mishin G M 4547	Moore A T 7933



	<u>Item</u>		<u>Item</u>		<u>Item</u>		<u>Item</u>		<u>Item</u>
Moore D	3558	Morrill E L	4559	Muhrer M E	5203	Musgrave A J	8550	National Farm	8802
Moore E N	4839	Morrinsville	7580	Muijzenberg	8142	Musgrave A L	4392	Chemurgic	
Moore G L	1545	Co-operative		E W B van den		Musgrave R B	7794	Council	
Moore G R	3886	Dairy Co		Mukerji S	6216	Musser R H	2796	Research Div	
Moore H I	6739	Morris C L	399	Mukherjee S	8756	Musshake A	3596	National German	4424
Moore I	6662	Morris F C	6704	Mukula J	8257	Muto I	7938	Shorthaired	
Moore J S	4749	Morris G F	4548	Mulder	7729	Muto N	918	Pointer Dog	
Moore J S	8858	Morris H E	446	Mulder E G	876	Muzik T J	854	Club	
Moore L	9930	Morris H E	1448	Mulder H	1861	Myer D S	9342	National	1159
Moore L	9931	Morris L	4750	Mulder H	1862	Myers H F	4347	Institute of	
Moore L	9993	Morris M G	5912	Muldoan A	7581	Myers K L	9835	Agricultural	
Moore L A	4159	Morris N J	8396	Mulford T	4943	Myers T R	4280	Botany	
Moore M H	444	Morris T B	8859	Mulhern T D	6060	Myers W I	9988	National Joint	8397
Moore M H	445	Morrison C	3888	Mulholland W B	2536	Myers W I	9129	Industrial	
Moore NS	10142	Morrison E M	9563	Mullen H H	1593	Myers W J	3541	Council for the	
Moore R D	7792	Morrison G A	772	Mullen H H	8036	Myers W M	1283	Flour Milling	
Moore R E	10378	Morrison J	4160	Mullen L A	1292	Myers W M	1357	Industry	
Moore S	9002	Morrison J F	1026	Müller	1352	Myers W M	1358	National Lumber	3496
Moore S A	4690	Morse B C	2428	Müller A S	447	Myers W M	1640	Manufacturers	
Moorhead G R	3235	Morse R E	8254	Müller E	877	Myhre A S		Association	
Moorhouse S	4423	Morse T D	10415	Müller F P	5774			Statistical Div	
Moorjani M N	10100	Morse W C	4279	Müller G	5775			National Poultry	8964
Moorjani M N	10172	Morse W J	1438	Müller G	5776			Butter & Egg	
Moorjani M N	10172	Morthland J F	8960	Müller G	5777			Association	
Moorjani M N	10172	Mortland M M	2291	Müller G	9715			National Re-	10416
Moorjani M N	10172	Mortensen L	4942	Müller K	3890			search Council	
Moorjani M N	10172	Morton A D	1356	Müller O A	3567			of the Philip-	
Moorjani M N	10172	Morton C V	219	Müller W E	9670			pines	
Moorjani M N	10172	Morton I D	4593	Müller-Len-	3754			National Soy-	8757
Moorjani M N	10172	Morton R K	7518	hartz				bean Proces-	
Moorjani M N	10172	Mortenson E W	6065	Müller-Stoll	878			sors Associa-	
Moorjani M N	10172	Mörtvedt L	9221	W R				tion	
Moorjani M N	10172	Mosby H S	3358	Müller-Thomas	3101			National Taiwan	9641
Moorjani M N	10172	Möschl W	179	Müller-Ufing	5913			University	
Moorjani M N	10172	Möschl W W	2292	Mullie G	8673			Naßvin A V	8258
Moorjani M N	10172	Moscona A	6427	Mullin H A	3331			Natrass E F	8647
Moorjani M N	10172	Moser A M	10146	Mullin J	1353			Naudé S M	5408
Moorjani M N	10172	Moser R E Jr	8827	Mulvany L	10147			Naugle J D	9469
Moorjani M N	10172	Mosig A	2159	Muma M H	5405			Naval Stores	3579
Moorjani M N	10172	Moskalefs V I	6676	Muma M H	5406			Review	
Moorjani M N	10172	Moskey H E	3889	Muma M H	5378			Navas Romano	7358
Moorjani M N	10172	Moskey H E	7793	Mumford D C	8953			E	
Moorjani M N	10172	Moskovets S N	510	Mumford H W	8037			Navarro C O	9344
Moorjani M N	10172	Mossel D A A	6993	Jr				Navarro G	2019
Moorjani M N	10172	Mostert J F T	9341	Munder H	7357			Navarro S J	2537
Moorjani M N	10172	Mota F	9003	Mundie E W	2795			Naves Y R	8758
Moorjani M N	10172	Motheral J R	9660	Muniz A I	4648			Naylor A W	883
Moorjani M N	10172	Moulds F R	3004	Munns E N	2680			Naylor S	1864
Moorjani M N	10172	Moule G R	7935	Munoz Marin	9834			Nearing G G	1865
Moorjani M N	10172	Moulton R W	2843	I M de				Neathy K W	10417
Moorjani M N	10172	Moura V	9575	Munro J	1863			Nederlands	7941
Moorjani M N	10172	Mouriquand G	10173	Munro J A	1354			Vlasinstituit	
Moorjani M N	10172	Mouriquand G	10174	Munroe E	6348			Nederlandsche	9954
Moorjani M N	10172	Mouton G	3100	Munroe E G	6349			Heldemaat-	
Moorjani M N	10172	Mowat E L	3229	Munsell H E	6981			schaplij	
Moorjani M N	10172	Moxhon H	7936	Munsell H E	7030			Neef J C de	8930
Moorjani M N	10172	Mozambique	10039	Munshi R A	9160			Nègre E	7359
Moorjani M N	10172	República Tec-		Müntzing A	713			Nègre E	7360
Moorjani M N	10172	nica de Estatís-		Murai S	3196			Negre R	588
Moorjani M N	10172	tica		Murash I	2016			Negróni P	60
Moorjani M N	10172	Mozhaeva L V	875	Murata K	8977			Neher D D	2222
Moorjani M N	10172	Moyer E Z	10116	Murata T	3595			Nehra T	270
Moorjani M N	10172	Moynlhan I W	4840	Murgatroyd J H	5653			Neill W T	5681
Moorjani M N	10172	Mozzi U	2429	Murkeek A E	1634			Neishtadt M I	2884
Moorjani M N	10172	Mozzi U	10393	Murphy A H	1355			Neiswander C R	6350
Moorjani M N	10172	Mrak E M	8255	Murphy D D	879			Neiswander R B	5655
Moorjani M N	10172	Mrak E M	8256	Murphy E W	9987			Neiswander R B	5665
Moorjani M N	10172	Mrak E M	8264	Murphy E W	9101			Neiswander R B	6138
Moorjani M N	10172	Muan P	9468	Murphy J H	5204			Neiswander R B	6351
Moorjani M N	10172	Mucci G	4068	Murphy R G	2661			Nekrasova T P	3198
Moorjani M N	10172	Mückenhausen E	2198	Murray D S	7937			Neller J R	2870
Moorjani M N	10172	Mudiappahpillai	6994	Murray R V	7225			Nelson A L	2605
Moorjani M N	10172	J C		Murray W D	5982			Nelson A W	6541
Moorjani M N	10172	Mudra A	706	Murray W G	9503			Nelson C B	7621
Moorjani M N	10172	Mueggler W F	1351	Murtfeldt L W	3540			Nelson E S	2962
Moorjani M N	10172	Mueller H	10175	Murthy H B N	8432			Nelson J	8259
Moorjani M N	10172	Mueller R A	8861	Murti V N	10040			Nelson J B	7094
Moorjani M N	10172	Muello A C	1439	Murton T A	1356			Nelson J M	7730
Moorjani M N	10172	Mügge	9833	Musfeldt I W	4840			Nelson P E Jr	10148
Moorjani M N	10172	Muggil	7443	Musgrave A J	5560			Nelson R	343
Moorjani M N	10172	Muhammad S	2535					Nelson T C	2538
Moorjani M N	10172							Nelson T C	3359



	Item		Item		Item		Item		Item
Nelson W L	2584	New South Wales	5656	Nichols A	2797	Norman T	8865	Nye E E	2160
Nelson W L	8619	Dept of Agri-		Nicholson H	1160	Normand J	3597	Nye S S	4468
Nepveu P	6352	culture		Nicholson J F	7031	Normand K	4396	Nyholm I	2093
Neri G	9615	Entomological		Nickel D	7546	Noronha H de	182	Nyland G	453
Nerovny D	9222	Br		Nickel R	3962	Norris L C	4753	Nys L	3756
Nes A R van	8522	New South Wales	5779	Nickell L G	885	Norris M J	2491	Nys P F de	2294
Nesheim R O	5165	Dept of Agricul-		Nickell P	6825	Norris P K	7944		
Ness A R	4069	ture		Nickels C B	5780	Norris P T	9956	Oakley C I	8617
Nesswetha H	2937	Entomological		Nickels C B	6355	Norris R E	340	Oakley M	7032
Nesterenko I S	2092	Br		Nickerson D	7995	Norske	2918	Obaton M	887
Nestor Ricaldoni	1027	New York Agri-	7194	Nickerson J	10042	Skogselskap		Obenshain S S	2292
J		cultural College		Nicol J	4468	North J	4842	Obolenski K	9223
Netboy A	9708	New York Agri-	8106	Nicol L	3876	North M O	4944	O'Brien H R	8401
Netherlands	9089	cultural College		Nicol L	4586	North American	10240	O'Byrne J C	9633
Centraal Plan-		cultural College		Nicolay H K	3985	Wildlife Con-		O'Byrne W	3310
bur				Nicollni J C	339	ference		Ocfemia G O	547
Netherlands Con-	0041	New York Agri-	8149	Nicollni J C	452	North Carolina	9497	Ochoa A E	2540
trole Bur		cultural College		Nicoll D	10103	Agricultural		O'Connor R	9474
voor Tuinbouw-				Nieboer J	4692	College		O'Connor R T	8765
producten				Niederfrank E J	9722	Dept of Agri-		Ødelien M	2847
Nettleton A	9937	New York Agri-	8842	Nielsen B F	1866	cultural Eco-		Ødelien M	2385
Netupskaja S V	3580	cultural College		Nielsen E T	5915	nomics		Oderkirk G C	10241
Neubacher F	61	New York Agri-	9226	Nielsen J	4284	North Carolina	9498	Odintsova E N	7362
Neubert A M	8272	culture College		Nielsen L	8932	Agricultural		Odland M L	2602
Neuhaus-Lennep	4466	New York Agri-	9267	Niemann J	9090	College		Odland T E	1066
Neumann	3271	cultural College		Nieschlag	10419	Dept of Agri-		Odland T E	2541
Neumann A L	5165			Nieschlag F	2539	cultural Eco-		Odium G	4071
Neumann G	2020	New York	8398	Nieuhoff	4549	nomics		Odium G	4072
Neumann H J	3891	Certified Seed		Nieuhoff G A R	4641	North-Lewis D	4070	Oertel E	5547
Neumann K A	4283	Growers' Co-		Nigam S S	7972	Northern Ireland	10420	Off International	3894
Neussle A C	2981	operative		Nightall E W	4762	Agricultural		des Epizooties	
Neuzil E	7524	New York Dept	7226	Nightingale G	7030	Research Insti-		Off Interna-	7363
Nevada Board	5134	of Agriculture		Nikitenko G F	714	tute		tional	
of Sheep		and Markets		Nikitin P D	3230	Northern Rho-	9473	du Vin	
Commissioners		New York Dept	7771	Niklas	2863	desla Dept of		O'Flaherty F	8648
Neves B	181	of Agriculture		Niklitschek A	1867	Surveys and		O'Flaherty F	8649
Neves B	2917	and Markets		Niklitschek A	1868	Land		O'Flaherty F	8650
Nénot A	7491	New York Dept	7796	Niklitschek A	1869	Norton C E	7150	Ogata K	62
Nevzorov N V	3028	of Agriculture		Niklitschek A	1870	Norton C L	4146	Ogata S	3646
New Jersey Dept	10238	and Markets		Niklitschek A	1871	Norton L B	5926	Ogg W	9346
of Agriculture		Bur of Food		Nikolaev A	1871	Norton L J	9091	Ogg Sir W	2199
New Mexico	7795	Control		Nikolaev P V	7731	Norton L J	9130	Ogg W E	7176
Feed and Fer-		New York Dept	7797	Nikolaiczuk N	9004	Norway Land-	9838	Ogg Sir W G	2838
tilizer Control		of Agriculture		Nikolaiczuk N	4721	bruksdirek-		Ogilvie D D	3895
Off		and Markets		Nikolaiczuk N	4751	tøren		Ogilvy W S	7033
New South Wales	423	Bur of Food		Nikol'ski V L	4752	Nosatovskii A I	886	Ogorodov N V	3231
Dept of		Control		Nilsson F	3272	Noskov A I	4576	Øgrim M E	10149
Agriculture		New York State	7654	Nilsson N E	3755	Nottingham Uni-	9556	Ohara J	3647
New South Wales	448	Temporary		Nilsson P E	5149	versity		O'Hare G A	8759
Dept of Agricul-		Commission on		Nilsson-	2341	School of Agri-		Ohashi H	271
ture		Agriculture		Leissner G	8956	culture		Ohio Agricul-	9347
New South Wales	449			Leissner G	3471	Dept of Agri-		tural Produc-	
Dept of Agricul-		New Zealand	8674	Nishimoto K	7227	cultural Eco-		tion Adjust-	
ture		Dept of Agri-		Nishimura S	7227	nomics		ment Com-	
New South Wales	9470	culture		Nissen H J	7148	Nottle J L	8400	mittee	
Dept of Agricul-		New Zealand	3982	Nissen H J	7149	Nourry O	4425	Ohio Dept of	10242
ture		Dept of Agri-		Nitchals R M	10184	Nova Scotia	1361	Agriculture	
New South Wales	450	culture		Nixon R W	1594	Dept of Agr-		Ohio State	8818
Dept of Agricul-		Animal Re-		Nixon W M	1359	culture and		University	
ture		search Div		Nixon W M	1360	Marketing		Ohio State Uni-	9231
New South Wales		New Zealand	7942	Nixon W M	2798	Field Crop		versity	
Dept of Agricul-		Wool Board		Nižnánsky F	3892	Serv		Dept of Agri-	
ture		Newald E	8459	Noakes H L	9955	Novák J	522	cultural Eco-	
Div of Science		Newald E	10312	Noble M	1872	Novak P S	3199	nomics and	
Serv		Newell G	7147	Noble W	2864	Novak P S	3200	Rural Sociology	
New South Wales	451	Newell P F	3983	Noble W A	5205	Novikov I A	9507		
Dept of Agricul-		Newell P F	3984	Noble W R	10313	Novikova L S	3893	Ohkawa K	9348
ture		Newell P F	9523	Nobrega P	4841	Novikova L S	4517	Okada Y	888
New South Wales	546	Newhall A G	2834	Nodder C R	7943	Novitskii V A	3345	Okamoto K	3512
Dept of Agricul-		Newman A S	2293	Nogina A I A	1695	Nowell R I	9131	Okamoto K	3655
ture		Newman J P	4467	Noguchi A	230	Nozhenko S E	3201	Okay S	6428
Div of Science		Newman L H	6353	Nogueira-Neto P	5561	Nüesch H	6356	Okazaki A	3648
Serv		Newman L H	6354	Nohara Y	715	Nugent G R H	8866	O'Kelly J F	1208
New South Wales	884	Newman R W	7519	Nollhan H	9471	Nugent T J	341	Okey R	8239
Dept of Agricul-		Newton J H	5657	Noirfallise A	589	Numberg M	5781	Oklahoma Agri-	8346
ture		Newton R C	2362	Nolfi K	10104	Nuñez A	1362	cultural and	
Div of Science		Newton R G	8931	Norden C	4594	Nutrition	10105	Mechanical	
Serv		Newton W	338	Nordhagen R	10314	Foundation		College	
New South Wales	5409	Neylon T J	4501	Nordin E	3102	Nutting G C	8187		
Dept of Agricul-		Nezhentsev I I	7361	Nordin P	8399	Nutting W L	6475	Okahira Y	3425
ture		Niblett M	5914	Nordloh P C	5166	Nuzhdin A S	5562		
Entomological		Nicholas G A	4691	Norman B	7732	Nybb K	2978		
Br		Nicholls E A	10102			Nybom N	716		



	Item		Item		Item		Item		Item
Okohira Y	3649	O'Reilley L J	10043	Pacaud A	5918	Parker W	8143	Payne L F	7786
Olberg A	3062	Orfei Z	5208	Pacchierotti F	1162	Parker-Rhodes	273	Pavva Carbajal	7011
Olberg G	653	Orlandi R	5209	Pace J E	4138	A F		C	
Olberg G	6217	Orlova L	7583	Pacific Dairy &	7444	Parkin F P	8760	Pearce J A	7035
Olbrycht T	3674	Orlova T G	892	Poultry Asso-		Parks D L	9846	Pearce-Gervis	4948
Olcese M R	3896	Orlowski P	2161	ciation		Parks L W	8461	L	
Oldham C H	1696	Ormiston F I	4426	Packchanian A	5411	Parks R R	6706	Pearson A M	4137
Oldham C H	2021	Ormond F	9841	Packman D J	9226	Parks R R	6707	Pearson A M	4138
Oleson G O	1363	Ormrod A N	3897	Pacit J	6359	Parks T H	6362	Pearson A M	4139
Oleson G O	1364	Orr C Jr	7858	Paddock F B	5563	Parlagreco A	9617	Pearson A M	5159
Oleson J J	4827	Orr K	7204	Padgett J R	1595	Parmenter L	5920	Pearson A M	5160
Olivares	5206	Orr N	7229	Pádua G de	2542	Parnas J	3904	Pearson A M	5161
Cabrera J		Orr-Ewing A L	3311	Paetzmann H	8675	Parnas J	4595	Pearson A M	8651
Olive J P	3675	Orsenigo M	455	Paganessi G B	3514	Parnas J	8551	Pearson C C	4228
Olive J P	5167	Orsi S	2025	Paganí A	9616	Parnell E D	8870	Pearson H S	6907
Oliveira J V de	5916	Orta B	3911	Paganí L	8403	Parnell I W	5097	Pearson I A	8039
Oliver P A	2716	Orta B	3912	Page G O	1874	Parodi A S	4604	Pearson R W	2261
Olivier L	4073	Orth A	9006	Page N R	2543	Parrish C F	8859	Peat D W	3545
Olmstead L B	2218	Ortiz	9557	Paguia R L	9008	Parry H B	4469	Peatt E S W	3905
Olmstead P D	9839	Maldonado R J		Pahaut P	2399	Parshutin G V	4596	Pech J	5567
Olofsson N E	5207	Osawa K	3457	Pahigian N	8786	Parsons A T	7520	Pechanec J F	1252
Olsen L	4161	Osborn A	1873	Palkin D M	6141	Parsons F L	9351	Pechartscheck	7951
Olsen L	9524	Osborne C	7584	Paille R	3901	Parsons H	7585	K	
Olsen M W	4843	Osburn J O	8731	Paille R	3902	Parvin D W	7177	Pechnik E	8040
Olsen O W	4518	Osinski J	3898	Paille R	5210	Parvin F W	1367	Pechnik E	8072
Olsen J W	5098	Os'kin A	1365	Painter R H	6399	Parvin F W	4394	Pechnik E	8094
Olsen S E	137	Os'kin A	9224	Paiva O M	4286	Parvin F W	8038	Pechnik E	10182
Olson C Jr	4285	Oskotskafa S	4935	Pak D N	4074	Parvin F W	8525	Peck R B	1370
Olson C D	8867	Osmolovskafa	5410	Pak K P	2606	Pascoe T A	3473	Pécrot A	2386
Olson R A	2522	V I		Pakistan Science	9349	Pašek J P V	6361	Pedersen A	1371
Olson R V	989	Osnifskafa E A	428	Conference		Pasfield G	6218	Pedersen A H	7644
Olson R V	2254	Ospina B S	7365	Pal B N	8502	Pasfield G	6219	Pedersen K	10247
Olsson A	2022	Ostankovich V F	5705	Palafax A L	4945	Pashov T V	5211	Pedersen M W	1068
Olsson N	8402	Østby-Deglum, H	9225	Palanti G B	4946	Pasquier R	5783	Pedersen M W	5568
Olsson T	10316	Østergaard J	10317	Palanti G B	7548	Passebon L	4947	Pedro E R	3029
Olthoff B H	2023	Østergren S	4509	Pallaske	5100	Passmann B	3005	Peel R A	6855
Oltmann W	890	Osterloh Mrs B	9842	Palmade	6597	Pasteels J	6505	Peele F E	4754
O'Mahony E	5917	Ostreikovskii	1161	Palmer A B	6542	Pasto J K	9659	Peele F E	4949
O'Mara R M	8577	M M		Palmer C M	64	Pastorini F M	2700	Peele T C	2223
O'Meara J E	9957	Ostrovskii N I	993	Palmer E L	2094	Patel G A	2026	Peer K C	6758
Omer-Cooper J	6139	O'Sullivan P J	4844	Palmer E L	10245	Patel J S K	7947	Peet L J	7231
Omura S	6450	Osvald C V	521	Palmer P	2698	Patel P J	3527	Peeters J	9848
Onaka F	654	Osvald C V	522	Palmer-Jones T	5564	Paterson D	4075	Peevy F A	3216
O'Neil F W	3538	Osvald C V	523	Palmer-Jones T	8452	Paterson R	3757	Pegg S E	4395
O'Neil J H	7196	Osvald H	63	Paldi J	456	Patrick R	244	Peglion V	10318
O'Neill J B	8578	Oswald J W	542	Palti J	457	Patrizi S	5784	Pegreff J G	5101
Ongaro D	7228	Ota M	3650	Palti J	894	Patron A	8248	Pehrson J	9352
Ongaro D	7364	Otago Daily	9693	Pan American	9350	Patrone G	3103	Peikert F W	6740
Onishchenko A I	2024	Times and		Union		Patry M	2845	Peixoto C F	8262
Onofrio P	8579	Witness		Div of Agri-		Pafs B M	5344	Pelczar M J Jr	407
Ontario Agri-	9940	Newspapers		culture and		Patt Y	895	Peli	4287
cultural Col-		Co		Conservation		Patte W E	3544	Peli	4288
lege and Ex-		Othaix W J	5099	Panfilova T S	458	Patterson A N	7948	Pellegrin F	114
perimental		Othmer D F	7095	Panisset M	3903	Patterson J D	459	Pellegrin F	185
Farm		Otremba E	9652	Panfukov D N	3274	Patterson P	9847	Pellegrin F	6150
Ontario Dept of	7262	Otte A W	8868	Panfukov D N	6598	Patterson R E	1067	Pellegrino J	4162
Agriculture		Otte E A	9843	Panneberg P	2544	Patterson W I	7034	Pelletier J R	8762
Statistics Br		Otten C J	7114	Pannenberg	9845	Patteson G W	9653	K	
Oosten A van	6140	Ottke R C	1029	Panshin A J	3458	Patteson G W	9654	Pellett K	10319
Ooststroom	183	Ottmann G	5426	Pant N C	5782	Patton S	7622	Pellett K	10045
S J van		Ouden P den	184	Pantanelli E	1366	Patyra S	5004	Pelshenke P F	2392
Oparin A I	1028	Oudin A	2193	Panych N T	5412	Paul A B	7230	Pendleton R L	1030
Oparin A I	10243	Ouellet A	3676	Paoletti V	8404	Paul H	7949	Penfold A R	4289
Oparin A I	10244	Ouellet A	8580	Paolo M	8460	Paul W R C	1368	Penha A M	10248
Opera Nazionale	9337	Ouellet A	8581	Papazian H P	65	Paula R D de G	8761	Penkava J	9475
per i Combat-		Ovchinnikov P	3899	Papazian H P	66	Paulhus N G	8892	Penn R J	7564
tenti		Overend W G	9373	Papin J	7445	Paulsen H A	899	Pennington	2273
Oplt J	1635	Overstreet R	832	Paranjpe V M	10044	Jr		M E K	
Oppenheimer	342	Overton C F	9693	Pardey W N	6257	Pavan M	6220	Pennington R P	3402
H R		Owen D F	6357	Pardi L	6360	Pavan M	10246	N L	8122
Oppenheimer	655	Owen J E	6358	Parihar D B	3622	Pavez Saa D	1164	Penny N M	5922
H R		Owens W A	3900	Parish H J	4652	Pavez Saa D	1369	Pennypacker M	7096
Oppenheimer	891	Owtram I H	5168	Parisinios J	10421	Pavgi M S	486	Penrose G L	4163
H R		Ozenda P	272	Park J	4643	Pavitt H A	3389	Péquignot R	2886
Oppenheimer J	2697	Ozhiganov I D	1507	Park O W	5565	Pavlikhin N	5169	Peralta Bergna	3906
Opsahl W	3273	Ozolin G P	473	Parker A H	5919	Pavlov E F	5020	H D	
Oravec C	3892	Ozolin G P	3280	Parker H A	3155	Pavlov I F	5921	Perclval E G V	1010
Orbea M	5243	Paal S	4445	Parker J H	1163	Pavlov-Grishin	7356	Perclval E G V	7850
Orcutt E P	5066	Paarlberg D	8869	Parker J R	6429	SI		Perdeck A C	274
		Pabon H E	9007	Parker J S	2699	Pay T W F	4470	Perdrix J	4806
		Pabst	4642	Parker K F	100	Payette A	2027	Peredo Reyes	2393
				Parker R L	5566	Payne C J	7950	E	



	Item		Item		Item		Item		Item
Pereira C	4597	Peterson M L	2672	Pierce W C	6627	Plank H K	5418	Porter J E	5266
Pereira C	5658	Peterson S F	2314	Pieris N A	1209	Plank H K	5785	Portères R	193
Pereira J M	8405	Petiot M P	4598	Pierre M	7368	Plassche	9851	Portères R	591
Pereira M de	8144	Pettitlaurent V	9949	Pignal S	463	A W van de		Porterfield J G	1441
L S		Peto H B	2029	Pigulevskiy G V	3580	Plasse J B van de	8238	Portier G	5349
Pereira S	1069	Petrak F	275	Pilcher C E	2370	Plastridge W N	4225	Portman R	6032
Pereira S	3349	Petrakhilev I	3350	Pilcher H L	10142	Plate R	9409	Portman R W	5389
Perekhod V I	2979	Petrakhilev I M	1546	Pilet P E	896	Plath E	7501	Porto C	9357
Perel' A	6788	Petri C	9850	Pilgrim A F	5085	Platonova E M	2205	Portugal Junta	3029
Perenc A	3907	Petricci V E	900	Pilgrim A J	464	Platt C S	4756	das Missões	
Perennec P	2005	Petrochenko E I	1031	Pilgrim A J	465	Platt F L	10321	Geográficas	
Peres E	3599	Petrov N P	1959	Pilgrim A J	511	Platt K B	9489	de Investiga-	
Pereyra	4076	Petrov S	6708	Pilgrim A J	1603	Platzer H B	3392	ções Coloniais	
Iraola R L		Petrov T K	6543	Pilgrim A J	5417	Platzer H B	3417	Colôquios	
Pérez G R	3406	Petry C O	4248	Pilgrim A J	8090	Plaxico J S	8871	Portugal Junta	8042
Perez J	4950	Pette J W	7624	Pilgrim A J	3911	Plaza M	6448	Nacional das	
Pérez Abreu L	1372	Pettersson G	1981	Pillet J	3912	Plíce M J	2545	Frutas	
Pérez Gambet	5413	Pettersson N	598	Pillet J	3912	Ploper J	2030	Portugal Junta	8144
C M		Pettinari C	460	Pillsbury A F	2224	Poblete Troncoso	9852	Nacional das	
Pérez Moreno	2028	Petty H B	6362	Pillsbury A F	2706	M		Frutas	
J M		Peyer E	5660	Pillsbury R W	241	Podoprigrora G A	1597	Possingham E	1549
Perkins A T	2295	Peyronnet R	1596	Pimentel D	5926	Poe W D	7097	Possompès B	5928
Perkins B G	6896	Peyton G W	1875	Pimentel F	8041	Poehlman J M	345	Possompès B	5929
Perkins F A	5923	Pfadt R E	5846	Pimshtein A S	3391	Poenicke W	1548	Post J J	1627
Perkins L E	3908	Pfaff G	4599	Pinardi V	4078	Poffenberger	6551	Post J J	10394
Perkitny T	3104	Pfeifer-Scheff	5016	Pinches H E	6599	P R		Post J J	10395
Perminova A P	3705	I M		Pihero M	9490	Poffenberger	9162	Post K	897
Pernu L O	6856	Pfeiffer R	1168	Pingale S V	8407	P R		Post K	901
Perotti R M	4845	Pfister R	5269	Pingrey H B	9142	Pogofsan S A	718	Post K	902
Perotti R M	5659	Pfilmlin P	9343	Pinheiro P V	6857	Pogrebniak P S	3202	Post R E	3410
Perrier de la	186	Phaff H J	8264	Pinkiewicz E	4600	Pohjakallio O	467	Posthumus G	7525
Bathie H		Phillip A	5925	Pinkney C C	6355	Pofasov N P	2243	Postremov G	2799
Perrier de la	187	Phillip B	6337	Pino N	5015	Pojärvi I	3760	Potapov A A	898
Bathie H		Phillip B	7916	Pihon J C	3678	Pojärvi I	3761	Potapov A I	4398
Perrier de la	188	Phillipponneau M	8049	Pinto-Lopes J	466	Poirot P L	3354	Pote H W	7589
Bathie H		Philippot R	2189	Piovano P G	103	Pokorný J	590	Potomac Grange	7098
Perrier de la	190	Philipson W R	164	Piper G B	5135	Pol P H van de	6143	No 1 Patrons	
Bathie H		Phillips C E	4165	Piper P E	7733	Polak M F	4789	of Husbandry	
Perry L M	191	Phillips G A	1876	Piper P F	4782	Poleschuk P M	2163	Potomac Grange	7099
Perry R	5050	Phillips G A R	1877	Piper W E	2701	Polhemus M S	5569	No 1 Patrons	
Perry R L	8263	Phillips H	7587	Piper W E	8145	Poliakova M G	5927	of Husbandry	
Perry R L	8264	Phillips H	9476	Piquemal G	1440	Polis B D	7522	Potresova M A	1374
Perry T D	3447	Phillips P H	3759	Piquer G	1547	Polis B D	7523	Potter B J	3854
Perry W J	6028	Phillips R	8582	Piras M	3913	Poliivka J B	5786	Potter E F	984
Persal D P	7623	Phillips R A	8583	Pires A	4601	Pollanetz	1724	Potter J M S	1637
Persell R M	8763	Phillips R M	2095	Pirie H	4727	Pollanetz	1878	Potter N A	802
Personius C J	10091	Phillips R W	1373	Pirie N W	518	Pollard E F	8763	Potter N A	1014
Persson A R	1508	Phillips R W	3677	Pirie N W	519	Pollax A	3556	Potter W D	2624
Perševa A N	2887	Phillips R W	9322	Pirone P P	10250	Pollock R C	10176	Potts R C	1298
Peruchon J	3758	Phillips W R	8265	Pisarev E	7446	Polo Gómez G	4397	Potts R C	1299
Perur N G	4164	Philpott M W	8903	Pisarev V E	1167	Polonovski M	7524	Potts R C	2360
Peryam D R	7036	Philpott M W	8931	Piskur M M	8764	Pol'skiy M N	2317	Potts R C	2565
Peryam D R	7057	Placco R	1166	Pistor W J	2096	Polunin L N	3132	Potvin A	3063
Pesce G	9161	Piana G	6944	Pitman W A	9408	Pomerene W H	6904	Potvin J B	4079
Pesce de	3909	Plard-Douchez	461	Pitner J B	2534	Pomeroy B S	4846	Potyra T	5212
Fagonde A		Y		Pitot A	656	Pomeroy B S	4847	Pou J W	4080
Peshkov I A	3275	Piatkovskii I I	7367	Pittioni B	6221	Ponchet J	429	Poulsen E F	2607
Pesman M W	717	Piatnifskii S S	3276	Pittsburgh Uni-	10106	Ponomarev D I	6548	Poulsen E N	2394
Pestal E	3390	Pibarot R	8934	versity		Ponomareva S I	2342	Poulton F C J	8933
Petelina N N	1165	Picard A J	1077	Mellon Insti-		Pons W A Jr	8765	Poulton G V	5571
Peters B G	566	Picazo E Jr	9526	tute of Indus-		Ponsignon A	4954	Poultry	4955
Peters H	5924	Pichi-Sermolli	101	trial Research		Ponte E del	5978	Association of	
Peters K	2162	R		Heinz Nutri-		Ponte E del	6030	Gt Brit	
Peters R F	6053	Pichler F	462	tional Research		Ponte E del	6031	Pounden W D	4290
Peters R H	6029	Pichon	192	Div		Pooley N	9355	Pounden W D	4291
Petersen N	4755	Pichugina N	7521	Pivovarova M.	3312	Pope A L	5067	Pouriet J	3277
Petersen N	4951	Picken J C Jr	3910	Piwowarczyk S	4471	Popham R A	657	Poux J	3914
Petersen N	5170	Pickett J	4952	Piza S de T	10107	Popken	8527	Povina A	9695
Petersen N	5244	Pickett J	7588	Piza Junior	6430	Poplavskiy F S	1697	Powell S	726
Petersen N	7586	Piegsa E	4997	S de T		Popov G	6432	Powell-Owen W	4956
Petersen R K	2706	Piekarski G	10249	Piza Junior	6431	Popov V	9356	Powers P O	8766
Petersen W E	4396	Pielou D P	5265	S de T		Popov V V	719	Powers P O	8767
Peterson A C	4451	Pielou D P	5416	Piza Junior	10320	Popovskala E M	1032	Powers W L	10396
Peterson A G	5414	Pieniążek J	3860	S de T		Popow W	5570	Poynor R R	6664
Peterson A G	5415	Piepho H	6363	Placidi L	3953	Poppins A J	2702	Pozdena L	1070
Peterson A G	6142	Pierce A E	4251	Plaisance G	2980	Porres C A	4757	Pozdena L	2546
Peterson G T	7196	Pierce C W	7655	Plaisance G	3105	Porsche G	7952	Prabhaker Rao	6144
Peterson J B	1079	Pierce W C	6355	Plang M	9694	Portal	9853	V	
				Plank G M	4953	Porteous H	8196	Prabhaker Rao	6145
				van der		Porter A R	4166	V	
								Prabhaker Rao	6146



Item	Item	Item	Item	Item	Item
Prabhu P N 1033	Puerto Rico 7656	Ragazzi G 2431	Rawson A 4957	Reitemeier R F 2298	
Praeger R L 102	Comisión Es- 10322	Ragazzi G 2703	Ray G 8772	Reiter F M 7959	
Praeger R L 10322	pecial Nom- 10322	Ragazzi G 5423	Ray G S 7265	Reiter R 7373	
Prager S 9716	brado para 9716	Raggi C A 6908	Ray G S 7266	Reitstötter J 8790	
Prakash M 2938	Estudiar la 2938	Ragless G B 1725	Raymond M 194	Rekova IU 5675	
Prasad S 1033	Situación de 1033	Ragless G B 1726	Rayski C 5097	Remeslo V N 2227	
Pratas J 346	Precios de la 346	Ragsdale A C 4167	Razafimahery 166	Remussi C 7960	
Pratolongo U 2547	Leche 2547	Ragsdale J M 9413	Razous P 3430	Remy P A 5664	
Pratolongo U 7369	Puerto Rico 10251	Rahman K A 5572	Rea H E 2550	Renard 2901	
Pratolongo U 7370	Dept de Agri- 7370	Raimo H F 4758	Rea H E 2933	Reneuve H 2902	
Pratt E R 3133	cultura y 3133	Rainey R C 5932	Rea H E 5677	Renne R R 1380	
Pratt O E 9009	Comercio 9009	Rainwater C F 5439	Reagan F B 9402	Rennella E 3928	
Prebluda H J 3762	Pukhtinskiy IU E 1550	Rainwater C F 6118	Rebiffé H 8414	Rentschler H 7283	
Prego A J 2608	Pullinger E J 4293	Raja P S K 9960	Rebour H 1553	Rentschler H 7375	
Prebrazhen- 3203	Pulp and Paper 3546	Rajendram S 6034	Rebour H 2705	Renz F 2889	
skii A V 3204	Research Insti- 7590	Rake A 1699	Rebour H 10046	Repetto N 9962	
Preobrazhen- 3204	tute of Canada 9958	Rakhov A I 4602	Recasens L de 7372	Reserve Bank of 9963	
skii A V 347	Pundlik D A 9359	Rakhtenko I N 905	Rechenhth C A 1377	India 7233	
Presley J T 9358	Purdue University 9359	Ralavera Boto 4294	Rechenhth C A 1378	Agricultural 7526	
Presianni N 4726	Agricultural 2296	Raleigh G J 2297	Rechenhth C A 1379	Credit Dept 1635	
Preston A R 1698	Economics Dept 2430	Ramachandra 6074	Rechinger 195	Reshetov A V 3388	
Preston J F 9477	Puri A N 2296	Rao T 5933	Rector H 8152	Resuggan J C L 7233	
Preuschen G 2548	Purnell W F 2430	Ramazanov D F 5933	Redlinger L M 6365	Resuggan J C L 7526	
Prevot P 4292	Purvis E R 790	Ramig R E 906	Reed A D 9528	Retovskiy R 1635	
Prewett L P 7232	Purvis G H 6600	Ramirez J C 9011	Reed F D 4958	Rettie J C 3134	
Price F E 10323	Pusch I 8552	Ramon G 3916	Reed H 8584	Reubelt V 8134	
Price H L 9854	Pussard M R 5931	Ramsay J A 6035	Reed J S 6952	Reuszer H W 910	
Price W T 5419	Pustoshkin I I 3107	Ramsbottom J M 8603	Reed J S 6953	Reuther C G 9763	
Prickett C S 276	Pustovoit A F 5422	Ramsbottom 8652	Reed O E 4083	Reuter F H 7234	
Pridham T G 7734	Pustyglin M A 6709	Ramsey R 6858	Reed O E 7735	Reutt G 9361	
Pries E C 4601	Puttock A G 1509	Ramsower H C 9856	Reenber C E 137	Revert 2707	
Prieto C 4601	Puyana 2900	Rancourt E de 3031	Rees D M 6066	Reyes G M 2854	
Prihoda A 468	Valderrama A 1638	Randall C G 907	Reese G 909	Reynard 1962	
Prihoda A 469	Puzei S M 5421	Randell C G 7955	Reeve R C 2706	Reynolds D 9879	
Priampol'skiy 2031	Pyenon L 5421	Randolph L F 1129	Reeves R E 7957	Reynolds H 8224	
P K 2549	Pyke M 10108	Randolph W L 7956	Reeves W C 6036	Reynolds L W 6883	
Prilufskiy A V 3418	Pyke M 10109	Raney W A 2225	Reeves W C 6037	Reynolds M 3917	
Prince F S 1375	Pyle R 10324	Ranganathan 2919	Reeves W C 6066	Reynolds P A 6930	
Prince Edward 2032	Qazilbash N A 2164	Rangel N M 5200	Regamey P 9619	Reynolds R D 3332	
Island Dept of 7037	Quackenbush 7037	Raney W A 9961	Reger J S 2706	Reyntens N 4168	
Agriculture 7625	F W 7625	Rao A L S 8653	Reginster P 592	Rheinheimer O 5576	
Potato Pro- 3232	Quadri P 7625	Rao B H V D 4296	Regional Post- 9696	Rhind D 2552	
motional Com- 904	Quatte J 3232	Rao C N B 8691	Conference 3547	Rhind D 2903	
mittee 3030	Quastler H 904	Rao S N 5934	Workshop for 10017	Rhoades D G 1563	
Principi M M 6507	Quattrocchi G 3030	Raoul W 8770	Librarians and 7798	Rhoades H E 4347	
Principi P 2395	Quebec Bur des 7264	Raper J R 908	Rural Sociolo- 9619	Rhodes F M 10047	
Pring G H 1879	Statistiques 9478	Raper K B 276	gists 9619	Rhone L 7798	
Pringle A V 7953	Quebec Dept of 9478	Raper K B 659	Register U D 10177	Riabinin V P 3108	
Prints fa I 5420	Lands and 9478	Rascio V J D 8553	Regnier R 5424	Riäbfsef I 2708	
Priouzeau M 4221	Forests 9478	Raski D J 558	Rehn J W H 5267	Ribbads C R 5577	
Priouzeau M L 4221	Quebec Serv of 9959	Rasmussen M P 8106	Rehn J W H 5935	Ribeiro J A 7737	
Pritchard A 5930	Rural Economy 9959	Rasmussen M P 8107	Rehn J W H 6038	Ribeiro J A 7738	
Pritchard A E 6147	Div of Coopera- 9959	Rastegar 4297	Rice E E 6601	Ribeiro P de A 8604	
Procter C 2831	tion 9959	Rath 1551	Rice E E 16153	Ricciarelli U 8528	
Procter C 2832	Queensland Cane 9010	Rathbone R B 6642	Rice E E 2248	Rice E E 8654	
Procter C 6988	Grower's As- 9010	Rathjens C 10252	Rice H M 8045	Rice E E 16153	
Proctor C 1880	sociation 9010	Rathman G A 5102	Rice W S 8045	Rice E E 16153	
Proctor C M 220	Querier O 6364	Ratnikov V 3986	Rich S 548	Richard F 2553	
Proctor G R 3106	Quesada A 4849	Rau K G 4298	Richard F 2553	Richard G 6509	
Prodan M 3106	Quesvedo C V 1376	Rauf U A 8771	Richard G 6509	Richard J 1480	
Proebsting E L 903	Quig J B 7954	Rauscher K 1984	Richard J 1480	Richard O 8873	
Pronin D T 983	Quintana M L 4648	Rautavaara T 2888	Richards A H 3431	Richards A H 3431	
Proom H 2343	Quinto F P de 8972	Rautenberg H J 5574	Richards A W 5268	Richards B D 2709	
Prost E 3915	Quralshi B B 5797	Ravanzo R R 2704	Richards B D 2709	Richards B L 549	
Proto M 2982	Qureshi M H 8091	Raven C P 4082	Richards B L 549	Richards B L 550	
Proto M 8043			Richards B L 550	Richards D B 3651	
Proulx J R 4081	Raab J 9227		Richards D B 3651	Richards L A 2228	
Proulx J R 4848	Rabak F 7371		Richards L A 2228	Richards L A 2229	
Prozorova V A 5245	Rabak W 7152		Richards L A 2229	Richards L G 10398	
Pruess A F 6033	Rabideau G S 967		Richards L G 10398	Richards L G 10399	
Prunet P 7263	Radchek M 9479		Richards M C 471	Richards M C 551	
Prunty M C Jr 8768	Radford C D 5661		Richards M C 551	Richards M C 1994	
Przesmycki F 6508	Radford C D 5662		Richards M C 1994	Richards P 7448	
Pubols B H 8044	Radford W C 9855		Richards P 7448	Richards P 7449	
Puddle C E 1881	Radir R 9399		Richards P 7449	Richards P W 593	
Puddle F C 1882	Radtkie 6741				
Puddle F C 1883	Raeder C E 6897				
Puerto Rico Bur 10423	Rafique C M 8092				
of the Budget 10423	Rafols W de 2865				
Div of Statistics 10423					



	Item		Item		Item		Item		Item
Richards R E	8529	Riordan M	9697	Rocchetti G	3765	Ron Pedrique A	472	Royal Jersey	4091
Richardson A	6366	Rios B B	2555	Roch E	6040	Roncera F	5791	Agricultural	
Richardson C	4644	Riou M	8934	Rocha C L da	3766	Rook J A F	7469	and Horticultural Society	
Richardson C H	6367	Ripa O	7962	Roche D	3033	Rooney H A	5434	Agricultural	
Richardson E	1886	Ripley P O	3763	Roche M D	3333	Roos M J	3921	Dept	
Richardson H P	9155	Ririe D A	2556	Rock R C	8117	Roos M J	4694	Royal Jersey	4092
Richardson M A	4299	Risbec J	5427	Rockle W A	2805	Roos M J	4695	Agricultural	
Richardson T C	4084	Risbec J	5789	Rodale R	2844	Roos M J	4696	and Horticultural Society	
Richarz H	9362	Risbec J	6223	Roddick P M	9228	Roos M J	4697	Agricultural	
Richens R H	10253	Rishell C A	3488	Roddy W T	8650	Roos M J	4855	Dept	
Richer A C	2554	Risher F W	8974	Rodenwold Z F	10126	Roos M J	8876		
Richmond R G	10274	Risi J	3600	Rodin I I	4085	Roos M J	10254	Roza M	3922
Richmond T R	1210	Rislakki V	3918	Rodón J M	7740	Roos W	7394	Rozanov A	7742
Richter K	9588	Rispoli J A	3883	Rodrian	5431	Root E R	10329	Rozanov G I	1560
Rickard J A	5425	Risso A J	8530	Rodrigues L L	7963	Root H H	5581	Rozzi U	4399
Rickett H W	196	Ritchie E	992	Rodriguez A	2558	Roots	4473	Rozzi U	4961
Ricketts V L	4472	Ritter K	7267	Rodriguez J G	5432	Ros Mariné M	9621	Rubber Research Institute of Malaya	8936
Riddell G E	9964	Ritter K	9416	Rodriguez J G	5665	Rosas E	4856		
Riddell W H	10178	Ritter P	7739	Rodriguez J I	6628	Rose	9858		
Riecken F F	2402	Rfu Vulart J M	3032	Rodriguez Chaves L	8093	Rose A L	9531		
Rieder	7376	Rivera Brenes L	3764	Rodriguez Espinoza L	4959	Rose H T	4474	Rubin B A	1036
Riegel G T	6222	Rivera Brenes L	4171	Rodriguez L A	2712	Rose J E	9965	Rubtsov A	3281
Riegel G T	6510	Rivera Brenes L	4172	Rodriguez Z M	2396	Rose M F	1071	Rubtsov A M	3282
Riemschneider R	5426	Rivero J M del	2033	Rodzina N T	1554	Rose P D	7965	Rudd R W	8539
Riester W F	2710	Rivero J M del	5428	Roekens F	1837	Roseau E	2714	Rude C S	6149
Riet J	4759	Rivero J M del	5429	Roelofs E T	4086	Rosella E	5792	Rudnick A W	7743
Rietsema C	1511	Rivero J M del	5430	Roemer T	1464	Rosella E	5792	Rudnitskii A L	7382
Rietti R	9620	Rivero P C	10328	Roepke W J	4851	Rosenbeerg H	5582	Rudolf P O	3205
Rietz R C	3459	Rivero E	2711	Roepke W J	4852	Rosenberg M M	8877	Rudnev D F	5436
Rietz R C	3460	Riveros J E	1701	Roepke W J	4853	Rosene H F	662	Rudy C	2034
Rigdon H P	3233	Riveros J E	7377	Roesch P K	4827	Rosene H F	913	Rüeger A	6678
Riggs J K	4169	Rives E A	9417	Roever W E	1671	Rosillo M A	5793	Ruehe H A	7528
Riggs J K	4170	Rivnay E	5936	Rof Codina J	1381	Rosillo M A	5793	Ruehe H A	7549
Rigney H W	10327	Rizet G	720	Rof Codina J	9857	Rosin S	5269	Ruehe H A	7627
Rijsewijk J van	6962	Rizvi S W H	5103	Roff C R	5580	Ross E S	5270	Ruehe H A	7744
Riley E	8046	Rizzini C T	661	Rogalev G T	6629	Ross H H	6511	Ruemele T	2166
Rimeslätten H	4513	Roa E	2804	Rogent I	9576	Ross J E Jr	7966	Rufin G	9482
Rindfleisch-Seyfarth M	4850	Roark D B	4300	Roger	7380	Ross O E	7741	Rufin G	9698
Rinehart J C	2871	Robbins W J	1034	Rogers C M	67	Rossi G	8625	Rufin M	4303
Rings R W	5798	Robbins W R	3170	Rogers E F	1007	Rossi L	4551	Rugiero H R	4604
Rinoldi L	7961	Robert A	5790	Rogers W	7241	Rossi P	4857	Ruggles E W	6545
Rio Grande do Sul Secretaria de Estado dos Negócios da Agricultura Indústria e Comércio	644	Robertis A de	6433	Rogers W P	3874	Rossi R P	7591	Ruigómez	9068
Rio Grande do Sul Secretaria de Estado dos Negócios da Agricultura Indústria e Comércio	1513	Roberts A	9183	Rogoff W M	5938	Rossi R P	8605	Ruiz Alarco F E	3064
Rio Grande do Sul Secretaria de Estado dos Negócios da Agricultura Indústria e Comércio	1579	Roberts B G	4693	Rogoff W M	6148	Rostiter F J	10049	Ruiz Castro A	6224
Rio Grande do Sul Secretaria de Estado dos Negócios da Agricultura Indústria e Comércio	2289	Roberts E J	3987	Rohde E S	2165	Rostenbach W	4302	Ruiz de Assin A	7790
Rio Grande do Sul Secretaria de Estado dos Negócios da Agricultura Indústria e Comércio	8076	Roberts F J	5937	Rohlf J A	4173	Rostovtsev N F	9532	Ruiz Ferron J	9859
Rio Grande do Sul Secretaria de Estado dos Negócios da Agricultura Indústria e Comércio	8262	Roberts H D	3434	Rohlf J A	8419	Roth C	3601	Ruiz Martinez C	4304
		Roberts J E	2550	Rohlfes	4087	Roth E C	2990		
		Roberts J E	2833	Rohmer	9013	Roth H	4475	Ruiz Ornoz M	474
		Roberts K C	8935	Rohwer R A	9480	Roth L M	5794	Rummell L L	2906
		Roberts L W	1935	Rolig	10048	Rothenbuhler W C	5569	Runge S	4305
		Roberts N	6544	Ballesteros J	3767			Runkel R O H	3602
		Roberts W L	4514	Rolig Miro J	4088	Rothfels K H	6434	Runov V I	914
		Robertson A	3679	Roisin E	5666	Rothgeb B E	8334	Rupert J A	1093
		Robin M	4550	Roisin E	4301	Rottensten K	4090	Rupp R G	4174
		Robin V	3919	Rojas	3920	Rotzel H	8878	Rupp R G	6743
		Robinson A D	10179	Maldonado C A	2363	Rougeot P C	6369	Rupp R G	8422
		Robinson A G	8155	Rokhova A G	9102	Roulin G	7527	Ruppel R F	6100
		Robinson A R	10116	Rola N A	7964	Rouse R D	2300	Rusanov F N	1889
		Robinson C G	9418	Roley R	7933	Roussiaux P	7621	Rusch H P	1009
		Robinson C R	4211	Rolfes	4089	Roussiaux P	8420	Rusiashvili I L	5795
		Robinson D W	6368	Rollins M L	2983	Roussy L	9133	Rusoff L L	4175
		Robinson E	5578	Rollinson D H L	5617	Roux E	3462	Russ J Jr	8533
		Robinson E C	6039	Rolsted M	911	Roux H	2301	Russell E	6041
		Robinson F A	5579	Romanelli V	1382	Rovest P	10050	Russell J S	2807
		Robinson G G	6152	Romanini A	1702	Rovest P	8773	Russell K L	9860
		Robinson H	7450	Romanini A	2559	Rovskii V M	473	Russell K N	9483
		Robinson H E	4760	Romanini A	2713	Rovskii V M	3280	Russell M	1385
		Robinson J B D	2557	Romanini A	3279	Rowe B J Z	9626	Russell M	1639
		Robinson R A	7379	Römer R R	4960	Rowe J A	5435	Russell M B	4698
		Robinson R R	2183	Römer R R	6630	Rowe J E	6963	Russell M B	2230
		Robinson T C M	426	Römer R R	8975	Rowe J Z	9559	Russell W A	3500
		Robinson W F	6602	Romig G	5433	Rowley	7179	Russwurm	6370
		Robinson W O	8147	Romijn C	4854	Rowntree L	1888	A D A	
		Robinson W T	2299	Romney V E	600	Rowsell J	1384	Ruthe H	3923
		Robison W L	5132	Romo G C	2534			Rüther H	3515
		Robson D	5171	Romon H	9481			Rutherford D M	5437
		Robson H H	3330					Rutherford J	2574
		Rocasolano C	8					Rutledge M M	10116
			1169						



	Item		Item		Item		Item
Rutter A J	571	Salvador	4503	Satonaka S	3561	Schery R W	1891
Ruttikay V	4502	A R N		Satyan T S	9701	Scheys G	2398
Ryan D W S	9484	Salvador	9699	Satyanarayana	10100	Scheys G	2399
Ryan R W	1890	Guandique J		M C		Scheys G	2400
Ryberg M E	3581	Salvatierra S	9700	Sauchelli V	2855	Schiavetti V	2715
Ryder H	2097	Salzmann	7385	Sauer H F G	5956	Schickele R	7183
Ryerson G E	6663	Samarakis B A	8047	Saugé G	5219	Schickele R	9625
Ryl E	10051	Samollovich G G	3284	Sauge G	5220	Schillein F	9969
Ryser W	9485	Samokhvalenko	4157	Sauger L	1442	Schieren J	4561
Ryzhkov V L	552	S K		Saunderson M H	1387	Schiermann	3682
		Samol'fanov I R	2808	Saur H	3234	Schiethart L J	9626
		Sampaio J	242	Sauter E	7748	Schindler E R	3370
		Sampaio R S	7968	Savage D A	1413	Schindler H	663
Sa V de	7745	Sampler J	8585	Savage D A	1414	Schindler H	1512
Saaltink G J	310	Samsonov N	7746	Savage Z	7268	Schindler U	3419
Saba M	3924	Samsonov N A	3501	Savatier R	9623	Schipstra K	921
Sabarich F	4858	Samuels G	2403	Savatier R	9624	Schlamb K F	4862
Saboda V	6665	Samuelson E	3034	Savchenko A I	3285	Schlesinger W	8937
Sabrosky L K	9900	San Miguel J	4860	Save-the-Red-	2984	Schleusener	2641
Sacay F M	9047	Sanchez-	915	woods League		P E	
Saccas A	415	Marroquin A		Savi P	3681	Schlev G	8464
Sacco P	3680	Sanchez-Pizjuan	5172	Saville G	7100	Schlier O	9717
Sacco P	5104	y Bonson		Saville G	7101	Schlotzhauer E	8294
Sackston W E	475	Sancho J	9014	Savino E	3928	Schmelzer L	5441
Saco Lanfranco	9622	Sandegren E	8423	Savory H J	69	Schmid E	5150
P		Sanders E	4249	Savory H J	919	Schmid F	2985
Sadeh D	5583	Sanders G P	7747	Savvides A	6753	Schmid G	8051
Sadler H A	5584	Sanders H G	4401	Sawada M	3652	Schmid K	9048
Saeftel	6859	Sanderson M	916	Sawafuji M	2397	Schmidt H	6512
Saeger H de	5438	Sandford B	2035	Sawyer K F	6435	Schmidt H D	8052
Saeland J	5051	Sandford B	8048	Sax K	920	Schmidt H N	3334
Saenko N F	7383	Sandifer T N	7181	Sax K	10330	Schmidt H W	5941
Saenz A C	4604	Sandrud L	8463	Saxeby E	9229	Schmidt K	4607
Saeta V A	3065	Sandstedt H	4606	Scade J	8050	Schmidt N O	9015
Safronov I P	3283	Sandvig E D	197	Scalles A L	5439	Schmidt R	3683
Saha N C	7967	Sangers W J	8049	Scanlan J J	4962	Schmidt S	3931
Sahlstedt A V	3925	Sanikidze A O	1703	Scaramuzzi G	763	Schmidt T	477
Saller R I	6225	Sano H	2328	Scarborough	4998	Schmitt V	8656
Saillard R	5213	Sano S	3569	H J		Schmittle S C	4826
Sainsbury G F	8266	Sansing B	9363	Scarchuk J	1975	Schmitz H	5942
St Francis Xavier	9966	Santiago Luque	3927	Scarseth G D	2364	Schmoker E A	4524
University		J M		Scartascini G A	2302	Schmukl J	8053
Antigonish Nova		Santo Domingo	10255	Scasso J M	1172	Schneider B H	4176
Scotia		Cámara Oficial		Scasso J M	1555	Schneider G	7750
Extension Dept		de Comercio		Scattolin L L	7451	Schneider	5384
St. Johnston	7384	Agricultura e		Schaak G B van	175	H H	
J H		Industria		Schaal A A	7130	Schneider-	5586
Ste-Marie C E	8267	Santos Biloni J	2168	Schaeffer H C	7800	Orelli O	
St-Pierre A	4093	Santos E	10180	Schaeffer A	3109	Schneirla T	6227
St-Pierre A	4400	Sanz de Corta-	917	Schäfer W	5440	Schnug M	6931
Saint-Priest P	8655	zar C		Schäfer W	10045	Schnur G L	3156
Saint-Quentin M	3768	São José A S	1171	Schaffer H	7102	Schnyder	4193
Saint-Quentin M	4306	Sao Paulo Dept	9967	Schaffer H	8618	Schober R	3067
Saint-Quentin M	9069	de Assistência		Schalk A	1704	Schoen L M	4504
Saito K	4605	ao Cooperati-		Schallenberger	2921	Schoenichen W	3068
Saito Y	3066	vismo		K		Scholten J A	6891
Saito Y	3432	Sao Paulo Dept	9968	Schaller C W	1132	Scholz H F	2586
Sakakibara A	3568	de Assistência		Schalm O W	4307	Schomer M	2169
Sakamoto H I	9054	ao Cooperati-		Schang P J	3929	Schönberg F	7628
Sakamoto Y	3647	vismo		Schang P J	5214	Schönberg F	8606
Sakata K	3474	Sao Paulo Sec-	68	Schaper G	5105	Schönbrunner J	8269
Salam M A	4859	retaria de		Schaps T	4552	Schönherr H	3371
Salanga L	7180	Agricultura		Schär E	8268	Schoof H F	5943
Salces F	4645	Instituto de		Scharif G	476	Schoof H F	5944
Saldaña Dávila	9007	Botânica		Scharrer K	3930	Schoonens J G	10181
F		Sappa F	103	Schatz A S	1599	Schoop G	3932
Saleh W	8960	Sara M	5939	Schaub I O	9486	Schopflocher R	1388
Salem O A	9861	Saraza Ortiz R	4861	Schaus R	4402	Schopmeyer C S	3582
Salerni E	10379	Sarkar P K	8602	Schedl K E	3313	Schopp R	5298
Salerno G	3926	Sarlin P	3475	Schedl K E	5796	Schotman J W	5587
Salkeld E H	5560	Sarraillet J M	3623	Scheer C D	9134	Schrader F M	7103
Salkeld E H	5585	Sasaki T	2920	Scheer K	7749	Schrader O H Jr	3516
Sallans B J	479	Saskatchewan	10256	Scheff G J	5016	Schrader O H	3517
Salminen V I	7129	Dept of Agri-		Scheffer T C	3473	Jr	
Salom Calafell J	2167	culture		Schellenberg A	7386	Schrank A R	922
Salonen A	467	Sasse B E	6043	Schember V E	1298	Schreiber A A	5442
Salt R W	5271	Sasser J R	1386	Schenck H E	7182	Schreiber G	6150
Salt Lake City	6042	Satchell G H	5940	Schenk M	4314	Schreiber H	8054
Mosquito		Sather G	6066	Schenk M	4318	Schreier O	594
Abatement		Sato K	3510	Schenk P J	6226	Schreier O	5443
District		Sato M M	198	Schepartz A I	8774		
		Sato Y	918	Schery	175		



Item	Item	Item	Item	Item
Scott L B 5144	Serfaty A 5667	Shenafelt R D 5801	Sieck K A 6711	Sipila M 6826
Scott L B 5799	Sergeev N 4404	Shepherd E 7629	Stiegel S M 932	Sipkes C J 353
Scott L B 6371	Sergeev S S 1705	Shepherd J B 1421	Siegrist J J 4312	Siqueira N de 7390
Scott L E 2037	Sergeev V Z 1174	Shepherd R E 1895	Sieh J M 9972	Siqueira R de 8040
Scott L W 7933	Sergeev V Z 1389	Shepherd R E 1896	Siemer Q A 7801	Siqueira R de 8094
Scott N J 6898	Sergent E 6045	Sherbakoff C D 351	Sierra Leone 10052	Siqueira R de 10114
Scott R C 7059	Serov I I 3289	Sherburne O L 6257	Siev D 933	Sirri A 1176
Scott R C 8166	Serpierti A 9628	Sherer S J 9070	Sievers A 9365	Sirri A 4405
Scott-Watson 4403	Serra A 4309	Sherman M A 5595	Sievers H 3479	Sirry I 5136
Sir J A	Serra G 9490	Sherman W A 3549	Siewertsen C 7453	Sisakian N M 1028
Scoville O J 9586	Serra Horta M 3476	Sherwood R C 8328	Sigmund P N 4999	Sisley J P 8777
Scroggs A 3420	Serrats 9364	Shestakov V E 1175	Sijtsma P 9184	Sitterley J H 9231
Scruggs C G 3770	Serle L 4963	Shevchenko F P 352	Sikes R K 5622	Sivertz G 9863
Scruggs C G 8881	Sertoli A 4094	Shevchenko F P 927	Sikes R K 5990	Sizikova T S 8971
Scruggs F H 8289	Servelle M 4477	Shevchuk T N 2038	Sikkel D 3006	Sizov I A 1213
Scurti J 478	Sessa L 7973	Shewan J M 9071	Silberschmidt K 934	Sjetne E 8059
Scurti J 513	Sethi S C 8775	Shewell-Cooper 1897	Silker R E 7791	Sjollema B 1395
Seals W F 7184	Sevastopulo D G 6373	Shewell-Cooper 1898	Silva A G da 4478	Sjostedt P 7391
Searles A Jr 7592	Severin H C 5445	Shewell-Cooper 2039	Silva W 10114	Skanes Fröod-lingstörning 1073
Searls E N 8882	Severson G M 764	Shewell-Cooper 2040	Silva Espejo R 10053	Skarpeid A 1900
Sears O H 2334	Severson H 4178	Shewell-Cooper 8270	Silveira A de C 1513	Skerrett E J 5447
Sears P B 10332	Severson H 9135	Shewell-Cooper 8270	Silveira A de C 8058	Skilbeck D 9864
Seay W A 2561	Serville H 3935	Shewell-Cooper 8270	Silvela 8427	Skinner A F 2786
Seckman M C 1893	Sfondrini G 4310	Shibamoto T 3477	Tordesillas F 8427	Skinner A S 10093
Secor G E 7040	Shaben L 10111	Shibata N 2562	Simakina V A 935	Skiver C E 8428
Secord A C 3787	Shade W E 5592	Shideler R K 4347	Siméon S 2444	Skifarenko T F 937
Sednitsky M 4761	Shafer N E 6811	Shields B E 4311	Simerl L H 9386	Skoczeń I 3937
Seed A 3372	Shah S M I 1481	Shilkov A A 4965	Simes J J H 3624	Skrlabin K K 3938
Seefeldt F C 7104	Shaikh A M 2345	Shillinger J E 6513	Simintzis G 4317	Skvortsov M 7752
Seeger K C 4687	Shaksel' E G 1706	Shillito J F 5947	Simintzis G 5948	Slaats M 1074
Seeger K C 4863	Shalamov P G 9016	Shimichev A 1192	Simintzis G 5948	Slack N S 2779
Seeger K C 4936	Shall' G M 8958	Shimizu T 3478	Simkover H G 5901	Slagle A B 7976
Seeley J G 1894	Shands W A 6154	Shingler G P 3583	Simmen J S 10113	Slagle A B 2098
Seeley R C 925	Shanor L 606	Shinn E H 2936	Simmonds P M 479	Slanetz L W 4316
Seelig R A 1641	Shantz H L 595	Shippy B L 1899	Simmonds S 1029	Slate G L 1557
Seely C D 9489	Shapira S 2170	Shirai Y 3069	Simmons C W 3111	Slate G L 2609
Segev M 4177	Shapiro I 5800	Shiraishi A 3206	Simmons P 5452	Slate L E 8149
Segler G 6710	Shapkin P A 1390	Shirley R L 928	Simmons W M 8560	Slater W R 2716
Seguy J 272	Shapkin P A 4700	Shishikin E A 1212	Simon B 6622	Sleesman J P 5448
Selche H 7969	Shaposhnikov A N 6155	Shive W 1046	Simon H J 1012	Slefánin G I 5053
Seifert 3110	Shapovalov A A 3290	Shkabara A S 1392	Simon J 4314	Slifer E H 6436
Seller J 6372	Sharar S 4095	Shkhvatsabafa G 6812	Simon J 4318	Slijper E J 3976
Seltzer 2948	Sharkey J B 7096	Shkol'nik M I A 929	Simon R H 2262	Sloan F A 4096
Seltzer 8056	Sharma M L 7974	Shkol'nik R I A 1016	Simoncini E 8658	Slocum G G 7042
Seltzer 8173	Sharma R C 8285	Shkorpai' K K 1707	Simonen M 3393	Slogteren E van 554
Sekera 2344	Sharp P F 10112	Shleiger L I 7388	Simons K S 3936	Slontmski P P 938
Selby H C 1642	Sharville E G 1476	Shifalkhto S 1950	Simonneau P 2564	Slope-Hettinger 2809
Sellinger A 1982	Shaw C L 8057	Shmigol E I 6911	Simonnet H 4477	Soil Conserva- tion District
Selishchenskaya A A 10400	Shaw (E A) & Co 1211	Shmukler H W 7522	Simonov I N 73	Sluis N 10054
Selivanov P A 3421	Shaw F 5945	Shmukler H W 7523	Simonov S N 1393	Small Pig Keep-ers Council 8659
Sell H M 811	Shaw F 5946	Shorland F B 7531	Simonova M N 1708	Small T 567
Sell H M 8285	Shaw FR 5593	Short D 8174	Simonsen E 10093	Smart A B 5240
Sell O E 3771	Shaw G E 5215	Shortt H E 6046	Simonsen R W 2401	Smedt A de 2610
Sellers W F 6152	Shaw H 7975	Shoshan A 3988	Simonson E 4505	Smelov S P 1396
Selman R W 8387	Shaw J 3448	Shteinberg D M 5272	Simpson E M 6154	Smillie D M 7630
Selman R W 8424	Shaw J 4964	Shu P 7041	Simpson G W 939	Smirnov A P 4179
Selter G L 8425	Shaw R B 4762	Shuja J D 7452	Simpson K 9629	Smirnov A S 2987
Seltmann A 5891	Shaw RR 10259	Shumakov V S 3214	Simpson T M 9891	Smirnov B M 8959
Seltzer E 7222	Shaw WB 4251	Shumanov E A 6156	Sincock R L 9619	Smirnov L F 5054
Seltzer R E 8148	Shawver C B 5159	Shuttleworth W W 6813	Sine L 9629	Smirnov- Ugrumov D V 4085
Semb G 2305	Shay F M 9655	Sfare R K 4256	Singh B 9619	Smirnova V A 552
Semikhnenko P G 3288	Shchepot'ev F L 926	Sibbitt L D 8351	Singh B 9619	Smit B 5949
Semushkin N R 4608	Shcherbakova 4517	Sibly P M 1047	Singh S 4315	Smit B 6157
Sen A C 6153	Shcherbina P S 5594	Sica S J 7389	Singh S 5572	Smit F G A M 6514
Sen B 3604	Shchetnev M I 4553	Sichel I 2306	Singleton G 8271	Smith A C 74
Sen D L 7970	Shchibria A A 1391	Siddall M 4650	Singleton H P 4145	Smith A C 4429
Sen D L 7971	Shchuchkin N V 6666	Sideris C P 930	Singleton WS 8776	Smith A C 4430
Sen P 6044	Shedd C K 6744	Sidky M M 5668	Singleton WS 8793	Smith A D 5068
Sen Gupta S R 7972	Sheehy E J 3772	Sidorenko A T 2986	Singsen E P 4763	Smith A L 354
Senn E 5591	Sheldon F R 3548	Sidorin M I 931	Sinha A B N 9974	Smith A M 939
Senni L 3035	Sheldon V L 1037	Sidorov K 5446	Sinisalo J 1394	Smith A S 8778
Sens 8883	Shelton F A 2376	Sidoruk I S 72	Sinskaya E N 936	Smith C E 1835
Senze A 3934	Shelton J R 8906	Siebenga J 2041	Sipe H 3335	Smith C L 6515
Senze A 4308	Shelton J R 8978	Siebert W 3607		Smith C S 1397
Serafinowicz H 3960				
Sérandour P 7185				
Sérandour P 8426				
Serbulov A 6679				



Item	Item	Item	Item	Item	Item
Smith C S 5055	Snyder R D 4506	South Australia 9577	Spillsbury C C 8787	Staskiewicz G 3940	
Smith C W 1901	Snyder T E 10333	Dept of Lands	Spindler F 9431	Staskiewicz G 4322	
Smith D 940	Snyder W C 989	Land Develop-	Spindler L A 8597	State-Federal 7270	
Smith D A 3857	Snyman P S 8885	ment Executive	Spinks J W T 2479	Crop and	
Smith D H 2320	Sobek B 4097	Southern J H 9660	Spinks J W T 8399	Livestock Re-	
Smith E 2250	Sobek V 4097	Southern Rho-	Spisni D 3939	porting Serv	
Smith E A 6047	Sobels J C 277	desia Land	Spithost G 1401	Statuti M 1710	
Smith E A 6059	Sobiech T 4610	Settlement	Spitzer R R 3774	Stauffer J M 3336	
Smith E J 1643	Sobolev F S 10340	Board	Splitter E J 5108	Stauss W 6604	
Smith E L 3773	Sobrero L A 6546	Southwick L 355	Sprague D C 7802	Stead F M 6056	
Smith F 8092	Sobrero L R 6951	Souza W W C de 2173	Sprague D C 6860	Stearn W T 1906	
Smith F B 2349	Social Science 9720	Souza Junior 2892	Sprague D C 6861	Stearns M G 2174	
Smith F F 5323	Research	J O de 10182	Sprague R 480	Stebbins G L Jr 1402	
Smith F R 8095	Council	Souza-Luz H de 1400	Spratt N T Jr 4964	Stebbins M E 1034	
Smith F V 9518	Sociedad Agrí-	N 10056	Spring F S 8096	Steel J D 4481	
Smith G 2717	cola y Gana-	Sovani N V 5598	Springer M E 2405	Steel W O 5805	
Smith G 9366	dera 8429	Soveschchanie po	Sproston T 343	Steele J G 2814	
Smith G 9367	Sociedad Ga-	Pchelovodstvu	Spurling M B 944	Steele J G 9644	
Smith G D 2402	nadera Mur-	pri Vsesofuznoi	Spurlock A H 9523	Steele W G 1076	
Smith G E 6048	cielago 4099	Akademii Sel'-	Squibb R L 3775	Steenis 116	
Smith G F 6049	Società Italiana	skokhoz'iaistven-	Srb A M 986	C G G J van	
Smith G H 6882	per il Progresso	nykh Nauk	Sreenivas L 2738	Steenland A 481	
Smith G L 6269	della Zootecnica	imeni V I Lenina	Sroka K H 1178	Steensberg V 3776	
Smith H 1902	Soden A L 8939	Spadari J J 8780	Staalduine D van 1683	Stefaniak W 4611	
Smith H G 5596	Soder K E 9430	Spaendonck 10057	Stableforth 4319	Stefański W 3941	
Smith H H 666	Soest W van 9492	B J M van	A W 4320	Steffen J 5192	
Smith H H 688	Sofroniuk L P 9017	Spain Delegación 7392	Stableforth A W 4320	Stegmann G 3518	
Smith H P 1206	Sohier R 4313	Peninsular para	Stace T W 8660	Steigerwaldt E F 3162	
Smith H P 1214	Sohier R 4317	Café de las	Stacey W A 2718	Steinbach F G 4482	
Smith H P 1215	Sohn A W 3625	Cámaras Ofi-	Stadelmann R 1039	Steinberg A W 7999	
Smith H V 2379	Soika A G 6158	ciales Agríco-	Stadhouders P J 1514	Steiner E T 8661	
Smith H V 2611	Soine O C 2183	las de Guínea	Stadhouders P J 9560	Steiner G 568	
Smith J 9975	Sokolov G 7930	Spain Dirección 10058	Staffe A 4967	Steinhardt R G 8662	
Smith J B 1066	Sokolovskaja 5000	General de	Staffe A 7631	Jr	
Smith J C 2360	I 1066	Aduanas	Staffe A 5670	Steining A 3614	
Smith J C 2491	Solano R 5597	Sección de Es-	Staffe E M 6159	Steklova M M 929	
Smith J C 2565	Solari F 5803	tadística	Stafford E M 6160	Stelfox A W 200	
Smith J D 2327	Solaroli G 6667	Spain Junta 5056	Staffe H H 6055	Stelfox A W 6229	
Smith J R 3351	Soldani R 1177	Provincial de	Stahl C F 5451	Stelly M 2421	
Smith J W 9965	Solheim W G 278	Fomento Pe-	Stahl C F 5804	Stepanov K M 482	
Smith J W G 8617	Sollman G 8960	cuario de Cui-	Stahn E 5057	Stepanov L I 2815	
Smith K D 1903	Sollongco I P 9867	dad Real 9369	Stahr A 2893	Stephens C 4323	
Smith K G V 5669	Solis J A 4479	Spain Mapa	Stahr A 3292	Stephens M S 10171	
Smith L 2042	Sollberger W 7454	Agronómica	Stakheiko F G 3292	Stephenson A 5599	
Smith L 2043	Solleder 6899	Nacional 1672	Stakhurskii M 9868	Stephenson A 6547	
Smith L 7866	Solleder W 2891	Spain Ministerio	Stakman E C 412	Stephenson H C 3942	
Smith L M 5670	Sollers H 6055	de Agricultura	Stalder F 3567	Stephenson R E 2346	
Smith L W 2810	Söllner R 667	Serv de Capa-	Staley T W 7803	Stephenson W A 4160	
Smith M B 10082	Solnfsev Z Ia 2922	citación y Pro-	Staley T W 9136	Sterling C 945	
Smith M H 8103	Solodkii M 4966	paganda 1686	Stall C W 7455	Stern A I 4483	
Smith R A 6194	Solov'eva A I 473	Spain Ministerio	Stallcup O T 4321	Sternberg J 7532	
Smith R C 5449	Someran E C C 6050	de Agricultura	Stallcup O T 4406	Steshkin V I 3394	
Smith R C 5450	van 6051	Serv de Capa-	Stallings J H 2612	Stetson J 4431	
Smith R E 4609	Somers E C C 6051	citación y Pro-	Stallings J H 2912	Stetson J 4507	
Smith R J 8175	van 6051	paganda 7722	Stamm A J 3627	Stetson J 6862	
Smith R M 2403	Somers J A 7977	Spain Ministerio	Stamm A J 3653	Steubing 3352	
Smith R S 2307	Somers G C 1904	de Agricultura	Stammer W C 7043	Steudel W 555	
Smith R T 7550	Somes H A 3235	Serv de Capa-	Stammers R R 6814	Steven H M 3353	
Smith R T 7593	Sommerkamp 9493	citación y Pro-	Stamper E R 2100	Stevens H 7480	
Smith S E 7201	Sompolinsky D 4519	paganda 7962	Standard Rate	Stevens J 3207	
Smith T H 2171	Sonnemann T 10055	Speakman J B 7962	and Data Serv	Stevens T D 2923	
Smith W R 6765	Sonnenblick 941	Speck M L 7754	Stanford K C 199	Stevenson A W 9371	
Smith W S 5069	B P 7978	Spee M 10126	Stanislawski D 9719	Stevenson E W 1403	
Smits C 1398	Sookne A M 7978	Speer 3036	Stap R J 8774	Stevenson J H F 6863	
Smitt A 75	Sooter C A 6052	Speer J 2988	Stannard A L 4271	Stevenson L T 3550	
Smock R M 748	Soper H R 1075	Speer M 6374	Stapleton C C 2813	Stevenson T M 3763	
Smock R M 8272	Sorensen S O 8779	Speese B M 117	Stapleton H N 10402	Stevenson V 1907	
Smolk J 2911	Sørensen T 10334	Speiser H 9495	Stare F J 10083	Stevenson V W 1908	
Smolk L 2233	Soria G E 4480	Spencer E Y 8399	Stare F J 10183	Steward F C 946	
Smythe C A 8984	Sorli M 9368	Spencer G R 4314	Stark J 8096	Steward F C 10335	
Snacken F 2404	Sörlin A 1905	Spencer G R 4318	Starkoff I 5671	Steward J H 9720	
Sneddo J 9491	Soraa Pineda 2172	Sperbeck T M 6054	Starkoff O 5671	Stewart F R 4554	
Snegovskii I F 6764	J M 1038	Spero J S 9976	Starnes H T 5610	Stewart G I 3337	
Snell L 8607	Sosa A 1038	Speieker M 2308	Stasheva M P 7979	Stewart H A 5151	
Snell N S 3699	Sosa-Bourdouil 942	Speieker M 3157		Stewart J 2816	
Snetov I I 6602	G 2566	Spielman H W 9370		Stewart J S H 9869	
Snider A J 9966	Sousa A T de 596	Spier R 1216		Stewart M 10260	
Snider H J 1399	Sousa E de 9494	Spiers C H 8554		Stewart N 8176	
Snyder J C 1709	South Australia	Spikes J D 943		Stewart N 8192	
	Dept of Lands				



	Item		Item		Item		Item		Item
Stewart W A	2970	Stromberg L K	2394	Suwan L	4971	Talbert T J	1712	Tedrow J C F	2971
Steyermark J A	1909	Strommer J	7105	Suzuki T	597	Talbur W F	8215	Tegtmeyer M	5001
Stickle R L	2971	Strømsøe B	3236	Suzuki Y	3654	Talbur W F	8216	Teissier G	5911
Stickney F S	2452	Stroyan H L G	6162	Svagr Z	7456	Tallarico G	953	Teleimanov N K	1560
Stierlin A	6437	Stroyan H L G	6163	Svanberg C	952	Tallarico G	3777	Tempany Sir H	2569
Stiles C F	6376	Stroyan H L G	6379	Svedberg H	7644	Tallarico G	5109	Temple L	6680
Stiles W	947	Stroyan H L G	6516	Svedelius N	10336	Tallarico G	7235	Temple V	6381
Stillwell M	1910	Strunz H	9185	Svenska Smör-	7632	Tallarico G	10185	Templeton G S	5017
Stine O C	3472	Strunz H	9186	provningarna		Tallarico L A	10186	Templeton G S	5025
Stine O C	3486	Strunz H	9187	Svensson K A	6815	Talley F B	2614	Templeton W H	7134
Stirling W F	2567	Strunz H	9188	Sventenius	201	Tallman K L	5394	Tenhet J N	5455
Stiver E N	1977	Strunz H	9189	E R S	9978	Talwar K N	6491	Tennberg F	2570
Stoa T E	483	Stryszak A	4520	Sveriges Lant-		Tames C	2309	Tenney R I	7378
Stockwell J A	6889	Strzelecki B	4484	bruksförbund		Tanabe H	3512	Tentoni R	7594
Stodart J A	9561	Stuart M	1041	Swabey C	2989	Tanagel' G D	1913	Teodosijev K	3090
Stoddard L A	1263	Stuart N W	1911	Swales W E	3422	Tandon R N	7972	Tepper E Z	2348
Stoddard L A	1404	Stubbs E L	4865	Swaminathan M	4866	Tandon M P	954	Terekhov P F	2008
Stoffels A	3158	Stuckey W E	6549	Swamy B G L	8432	Tanganyika Dept	2919	Terman G L	2365
Stoffels E H J	2175	Studier H	9465	Swanson C L W	651	of Agriculture		Termohlen W D	8987
Stohr E	9070	Stueckel A	4701	Swardt S J de	1079	Tanganyika Dept	9500	Termohlen W D	8997
Stokdijk W	1711	Stunz D I	4810	Swartwout H G	3562	of Lands and		Terrill R L	8782
Stoker H	9972	Sturkie D G	1443	Swartwout H G	5454	Mines		Terruzzi F	4328
Stokey A G	668	Sturm J J	2613	Swartz V W	7036	Tangren W E	1406	Terry C W	2101
Stoll K	949	Suarez Nelson	4324	Swayer W J	7633	Tarala G N	1558	Terry M E	8074
Stoltenberg K J	7990	M		Sweden Kom-	10060	Taranchuk M L	955	Terry R	6557
Stolze	356	Subrahmanyam	9977	merskollegium		Tarantola C	7755	Tertiär	77
Stomberg P J	8150	K		Sweden Svin-	5152	Tarantola M	963	Tesch A	4407
Stone E L Jr	949	Subrahmanyam	8432	stamkontrollen		Tarantola M	964	Tesch J	2177
Stone K H	76	V		Sweet R D	2101	Tarantola M	1042	Testa J	7393
Stone M W	5806	Subrahmanyam V	8691	Swellingrebel	5983	Tarasov V V	3112	Testa J	10061
Stone P C	5950	Subrahmanyam	10100	N H		Tardieu-Blot	203	Testa J	10062
Stone P C	6376	V		Swellingrebel	6058	Tarelli A E	4100	Testoni R	5173
Stoner W N	484	Subrahmanyam	10172	N H		Tarkow H	3627	TERNIK D M	8608
Stopiglia A V	4464	V		Swerts E	8197	Tarrant R F	3208	Tetley J H	5110
Storace L	6377	Subramanian R	6057	Swett W W	4325	Tasker C	5600	Tettamanzi A	1467
Storace L	6378	Suchalkina M I	2432	Swift C E	3396	Tate M T	9994	Texas Univer-	3719
Storch W von	4968	Sudre J	5058	Swift J C	7217	Tate S	3657	sity	
Storch W von	4969	Sugahara T	3152	Swift J E	1466	Tatum E L	1002	Institute of	
Storie R E	2406	Sugahara T	3644	Swinnerton A A	2176	Tatum E L	1029	Latin-American	
Störmer H	2347	Sugano M	3519	Switzerland	9093	Tauc L	956	Studies	
Stornes A	9373	Sugarcan In-	1465	Volkswirt-		Tauc L	957	Texas Univer-	10261
Storvick C A	7044	vestigation		schaftsdept		Täufel K	7131	sity	
Storvick C A	10184	Committee		Swoboda W	9671	Täufel K	8097	Institute of	
Stothard F S	9873	Trinidad		Sychev L E	3385	Tayadze P G	958	Latin-American	
Stout G L	357	Sugihara H	3426	Sykes W E	2924	Tavernetti A A	8060	Studies	
Stout G L	985	Sugiura G	3618	Sylvain R	2990	Tavernier R	2407	Thailand Dept	2392
Stover D E	4832	Sugiyama H	8555	Syman-	9499	Tavildarova T F	4032	of Agriculture	
Stoves J L	7981	Suissa G	1644	Uveeler L		Taylor E L	3945	Thaler H	7394
Stowe E J	10433	Suivre A	1645	Syria Extension	3924	Taylor F J	959	Thatcher M W	7186
Stowe E J	10434	Sukhenko A IA	950	Serv	8862	Taylor F J	1914	Thebis R	6316
Strachan C C	8209	Sukhin L	9496	Syria Extension	9952	Taylor G H	9875	Thelmer O F	8433
Strachan C C	8273	Suleyman M	1481	Serv	9953	Taylor G M	1915	Thels E R	8662
Stradt G H	3338	Sullivan W	9531	Syria Exten-		Taylor G M	1916	Therman E	669
Strahler A N	2234	Sulman F G	4485	sion Serv		Taylor G M	2101	Thiel E	6932
Straight M	9374	Sulzbacher W L	8556	Szafarski J	3859	Taylor G S	2212	Thielmann K	3113
Strand E	1179	Sulzlee C	2917	Szafran A	3943	Taylor H L	10093	Thielmann K	3396
Strandee E J	8652	Sumitomo S	5909	Szichobalowa N P	3938	Taylor H M	9876	Thiersch J B	5165
Straneo S L	5807	Sumner R J	708	Szkolnik M	569	Taylor H R	9501	Thiery G	4221
Strasheim A	1040	Supreme Com-	2405	Szumowski P	4326	Taylor J	8198	Thieulin G	7491
Strasheim A	10425	mander for the		Szuperski T	4486	Taylor J G	6380	Thimann K V	809
Stratford	1405	Allied Powers		Szyfres D	3944	Taylor J S	4327	Thimann K V	1043
Grassland		Natural Re-		Szymanek J	7982	Taylor L F	5951	Thiney L H	9631
Research In-		sources Sect		Szymkiewicz B	3159	Taylor M E	2481	Thirion C	2236
stitute		Supreme Com-	2920			Taylor M E	3007	Thirumalachar	486
Research Sta		mander for the				Taylor M E	10337	M J	
Straunard R	4612	Allied Powers		Tabor G	1912	Taylor P R	9190	Thomas Mrs A	1917
Strauss	6984	Natural Re-		Taccari I A	2991	Taylor R H	2235	Thomas B	7804
Strauss	10115	sources Sect		Tagawa M	202	Taylor S A	8781	Thomas B F	7533
Strauss A	2568	Suprunenko N	3293	Tagorda Q T	9047	Taylor W L	8986	Thomas D G	1918
Strauss A R	5908	Surinam Alge-	10059	Takagi T	7983	Taylor W R	960	Thomas G C	6995
Strawinski K	6161	meen Bur voor		Takakuta K	49	Tazoe H	2350	Thomas G E	567
Street A G	9232	de Statistiek		Takami H	3395	Tchan Y T	4487	Thomas G P	487
Street R C	4646	Suslov A F	951	Takashima T	3520	Tchouvakhine P V	5810	Thomas G W	6165
Streets R B	485	Susmel L	3570	Takashima T	3626	Tchouvakhine P V	6164	Thomas H T	5952
Streicher E	9375	Sutherland A K	4844	Takeda S	2433	Teagle W	7106	Thomas H T	5953
Streit J	1978	Sutherland J G	9497	Takehana I	3294	Teare D W	6864	Thomas I M	6063
Strekalova L I	6548	Sutherland J G	9498	Takhtaulov S	2918	Teatini D	9018	Thomas J I	6009
Strel'kov P M	3135	Sutherland S S	9874	Talatin N A	1560			Thomas J R	2293
Stricker M H	5610	Sutton J	4970	Talbert T J	358			Thomas M D	8288
Strickland L F	5725	Suvarnakich K	10150	Talbert T J	1646				



Item	Item	Item	Item	Item	Item	Item
Thomas N F 10403	Tindall C 5137	Toth S J 847	TSinfsevic E P 6449	Umstätter H 8790		
Thomas Sir R 2719	Tinto J C 3480	Tottenham C E 5913	Tsifsyn S D 8411	Underwood B 9978		
Thomas R J 7984	Tirado T A 1217	Totzek 8609	Tsuchiya A 49	Underwood E J 7179		
Thomas R U 10116	Tischler G 9495	Toulet L 3603	Tsukamura M 78	Underwood J C 8098		
Thomas S B 7533	Tisdale C R 9877	Towell W E 2927	TSvetkova K 5605	Underwood P C 4325		
Thomas W D Jr 488	Tisdale S L 2311	Towell W E 3360	Tucker L O 6632	Union of South 7457		
Thomas W P 9563	Tishchenko A 962	Townend P P 7989	Tuffin H R 8275	Africa Dairy 6606		
Thomasow J 7534	Tishchenko A V 1468	Townsend A C 6359	Tull 6517	Industry Control Board 3070		
Thompson F C 961	Tissot A N 6167	Townsend P S 9505	Tulloch G S 3070	Union of South 9233		
Thompson J C 4180	Titard A 2005	Toxopeus L J 6382	Tumagari T 9233	Africa Dept of Agriculture 8933		
Thompson J F 946	Titone F 3947	Toyama S 204	Tunnicliffe M E 8933	Union of South 4183		
Thompson J H 9564	Titus H 1559	Toyama S 3070	Tuomainen L 4183	Africa Dept of Agriculture 3551		
Thompson J J 4867	Tfardenev A P 1409	Toyama S 3655	Tuovinen A 3551	Union of South 3314		
Thompson L A 1600	Tixler P 2470	Trach J 2314	Türcke 3314	Union of South 670		
Thompson L M 2310	Tixler P 8909	Tracy P H 7536	Turianskii G F 670	Africa Dept of Agriculture 6169		
Thompson P 1407	Tkachenko F A 1969	Tracy P H 7634	Turica A 6169	Turk K L 4101		
Thompson V E 7535	Tkachenko M 6712	Tracy P H 7757	Turk K L 7805	Union of South 2280		
Thompson W L 5456	Tobacco Insect Conference 5460	Tracy P H 7758	Turk L M 2280	Africa Tobacco Industry Control Board 2045		
Thompson W R 1408	Toback L 4330	Trainer L 10127	Turlapova A 36	U S S R Soviet 2822		
Thompson W S 9672	Toberman J P 6890	Tramontano T 5601	Turmel J M 37	Ministrov 9983		
Thomsen H 7756	Tobias C H 10179	Trampler K 9721	Turmel J M 47	Unión Terri- torial de Co- operativas del Campo Sevilla 5606		
Thomsen M 5812	Tobias J 7536	Trautmann H 2366	Turmel J M 205	United Fresh 9236		
Thomson A G 5457	Tobin J 7060	Travassos L 6383	Turmel J M 6633	Fruit and Vegetable Association 9381		
Thomson D M 4251	Tobler F 2571	Travers S J 2103	Turnbull D 4651	United Nations Economic and Social Council 9382		
Thomson G H 5246	Todd A C 4583	Traversi B A 339	Turnbull W H 5606	Economic Com- mission for Asia and the Far East 9382		
Thomson G W 2237	Todd A C 4614	Travis B V 5461	Turner A H 6384	United Nations Secretariat 9573		
Thomson J 8434	Todd A C 5086	Trawinski A 3948	Turner C W 6384	Secretary General 9144		
Thomson J R 2102	Todd A R 995	Treat R L 3949	Turner C W 7019	United Nations Statistical Off 7063		
Thomson R K 8061	Todd F E 5568	Treillard M 4531	Turner G E 8152	U S Bur of the Census 8438		
Thomson R K 10063	Todd H P 7987	Trellard M 6067	Turner H J 6385	U S Bur of Mines 1926		
Thomson R M 8435	Todd J H 7988	Tremblay F T 7595	Turner J N 5814	U S Civil Aero- nautics Admin 7109		
Thoon J J E 1919	Todd V 5673	Trendtel 2992	Turner L L 9981	House Com- mittee on Agr 7990		
van den Thoorn J J E 1920	Todhunter E N 10117	Trenk F B 5462	Turner R C 2820	U S Congress 9050		
van den Thoorn J J E 5458	Tögel V 1922	Trentin A 6817	Turnill L 4703	U S Congress 9634		
Thorla L 7985	Tögel V 1923	Treskunova S 3237	Turnill L 4973	House Com- mittee on Agr 7990		
Thorn W C 1921	Tokyo National Research Institute of Agriculture 1044	Tret'akov N A 4972	Turquois J 835	U S Congress 9050		
Thornber W 3489	Tolbert N E 1044	Tret'akov N P 4181	Tuschhoff O 6607	U S Congress 9050		
Thorne D W 2720	Toledo A A de 5956	Tretsven J O 2104	Tushingham H W 6170	U S Congress 9050		
Thorne G 559	Tolle C D 7045	Trevett M F 2573	Tuthill L D 6170	U S Congress 9050		
Thorne J P 2720	Tollenaar F D 6993	Trew E W Jr 1411	Tuyama T 206	U S Congress 9050		
Thorne M D 2238	Tollet R 5957	Trigg R S 9377	Tyler W E 7229	U S Congress 9050		
Thornton D 2819	Tollet R 5958	Trigg R S 10264	Tynes R A 6933	U S Congress 9050		
Thornton G D 2349	Tollet R 5959	Trimberger G W 4182	Tysser H F 8178	U S Congress 9050		
Thoroughbred Bloodlines 4555	Tollet R 5959	Trimble A P 10118	Tysser H F 8205	U S Congress 9050		
Thorp W T S 3946	Tolley C H 9504	Trimble A P 10119		U S Congress 9050		
Thorpe J E 9632	Tolmachev I A 10339	Trimble A P 10120	Ubbels P 4716	U S Congress 9050		
Throckmorton R I 1180	Tolman B 1469	Trinchieri G 360	Uchda A B 6608	U S Congress 9050		
Thuillot M L 7136	Tolman B 1470	Trip J 2044	Uganda Dept of Agriculture 10427	U S Congress 9050		
Thullbery H A 5672	Tolman B 2572	Troesch C B 7030	Uganda Gover- nor 9379	U S Congress 9050		
Thurman D C 6064	Tolman B 6713	Trogon W O 2574	Ugarte 2312	U S Congress 9050		
Jr Thurman D C 6065	Tolner J 1410	Troitskii V M 7046	Laiseca J 4521	U S Congress 9050		
Thurman E B 6012	Tolochenko I A 8949	Trojani G 8436	Ugorski L 5018	U S Congress 9050		
Thursby I S 8274	Tolstonog I A 3295	Tröndelag 9980	Ugorski L 5018	U S Congress 9050		
Thurston A H 7986	Tolstov V K 6605	Myrselskap 361	Uhland R E 2239	U S Congress 9050		
Thurston S K Jr 9979	Tombesi L 963	Trotter A 489	Uhlen R 9380	U S Congress 9050		
Tiberio M 3750	Tombesi L 964	Trotter A 489	Uhlir P 2821	U S Congress 9050		
Ticó L 2615	Tombesi L 965	Trouillon J 6438	Uhlir P 3354	U S Congress 9050		
Tigertt W D 6066	Tombesi L 966	Trow-Smith R 6818	Uhlir J 9163	U S Congress 9050		
Tiegs O W 5459	Tombesi L 7395	Trufanov A V 10187	Uhlir J 9164	U S Congress 9050		
Tiemann H D 3462	Tomey A 4702	Trufant R A 8177	Uhlir J 9234	U S Congress 9050		
Tierstein V 4613	Tomey A 6865	Trujillo M S 9378	Uitewaal A J A 1924	U S Congress 9050		
Tilden J W 5954	Tomhave A E 4687	Trullinger R W 10426	Ulin R 6996	U S Congress 9050		
Tilkin F 6166	Tomhave A E 4936	Trulson G 5247	Ullal R R 1506	U S Congress 9050		
Till M R 359	Toole E H 823	Truog E 2408	Ullmann E 4333	U S Congress 9050		
Tillander T 3114	Torkelson D E 4615	Truog E 2443	Ullrich K 4488	U S Congress 9050		
Timmons J F 9502	Toro E del 3764	Truog E 2561	Ullstrup A J 362	U S Congress 9050		
Timmons J F 9503	Torp A 6866	Truog E 2576	Ulmann M 7047	U S Congress 9050		
Timmons J F 9633	Torre E J 4833	Tsao T H 967	Ulmer R C 9019	U S Congress 9050		
Timofeev V P 10338	Torrens Pastor A 5216	Tsao T H 1045	Ulrich J 8596	U S Congress 9050		
Timon-David J 5955	Torres A A 4331	Tschechne G 5603	Ulrich J 2409	U S Congress 9050		
Tindall C 4329	Torres Filho A 9376	Tschermak- Woess E 968	Ulrich W 7596	U S Congress 9050		
	Torrice M R A 6169	Tschiritsch 9191	Ultée A J 2178	U S Congress 9050		
	Tortorelli L A 2991	Tschumi P 5604	Umhaugh K 7107	U S Congress 9050		
	Tostlebe A S 9100	TSebril M P 721	Umhaugh R E 1412	U S Congress 9050		
	Toth A 663	TSebril M P 1713	Umeya Y 6450	U S Congress 9050		







	Item		Item		Item		Item		Item
Wageningen	2997	Ward R E	4185	Weber G F	343	West of Scotland	5240		Item
Bosbouwproef-		Ward R W	6867	Weber H	676	Agricultural		Wickard C R	6954
station T N O		Ward T L	8793	Weber J	9021	College		Wickard C R	6955
Wager J V K	3163	Ward W H	1936	Webster C B	1359	West Q M	9996	Wickard C R	9997
Wager V A	493	Warden M L	4556	Webster W	4339	Westcott C	366	Widder F	106
Wagner H B	3584	Wardlaw C W	674	Wechter F J	8778	Western Beet	9023	Widdifield R B	1185
Wagner J	3630	Wardner C A	2434	Weck	3115	Sugar Pro-		Wiebosch W A	722
Wagner J B	3523	Wardrop A B	675	Weddell B W	6396	ducers		Więcko E	3116
Wagner J B	3524	Wardrop G	6717	Wedgeworth S L	1133	Consumer		Wiedemann	3297
Wagner J R	8280	Ware L M	2730	Weekers E	4712	Serv Dept		Wiedemann G	8697
Wagner M W	9394	Waring C E	2946	Wegelin	4193	Western Grower	7117	Wiegand E H	8284
Wagner R E	1421	Warne L G G	2052	Wegenek E	6136	and Shipper		Wielen H G W	9893
Wagnon H K	211	Warner H A	8067	Wehrle L P	10342	Western States	9024	van der	
Wahl R	9053	Warner R M	978	Wei W P	5005	Machine Co		Wiener F	6552
Wahlenberg W G	3211	Warner R M	1602	Weibel R O	2183	Western States	9025	Wiener W T G	1424
Waibel C W	561	Warner R M	1603	Weidenmüller H	4618	Machine Co		Wiggers de	7239
Waibel L	9581	Warner R M	2583	Weidner C H	4984	Westhues M	4619	Vries J V	
Wain R L	925	Warner R M	5818	Weidner H	5471	Westinghouse	6940	Wiggins L F	9009
Wain R L	974	Warner R M	8186	Weidner K	5002	Electric &		Wiggins L F	9027
Walte R	7538	Warren B C S	6393	Weigel R	5968	Manufacturing		Wiggins L F	9028
Wake W C	8939	Warren B C S	6394	Weiglin P	10343	Co		Wiggins L F	9029
Wakefield H S	7658	Warren C C	8896	Weihing R M	4188	Weston E E	3283	Wigglesworth	5274
Wakeham H	8000	Warren C C	8897	Weinman C J	5472	Weston W A R D	495	V B	
Wakeland C	6440	Warren D C	4660	Weinman C J	6376	Westralian Farm-9975		Wightman R	4111
Wakeley R E	9724	Warren G L	9984	Weishaar L J	9510	ers Co-operative		Wildakas W	1185
Wakellin J H	8000	Warren S W	9549	Weiss A	2731	Westveld R H	3493	Wijeratne M S	7133
Wakely S	6392	Wartars M	5965	Weiss E F	9022	Wet G J de	5181	Wijers R W	4112
Wakeman T J	6754	Wasani S G	7636	Weiss F	365	Wexelsen H	1423	Wiklund O	9030
Walde W L	7241	Washburn F M	4710	Weiss F	9397	Weyer F	5676	Wilbur D A	6398
Walder W O	7132	Washburn R G	10190	Weiss G S	9404	Weygand F	9026	Wilbur D A	6399
Walford Lloyd E	5249	Waszkow E	5221	Weiss H B	5273	Whaley W G	967	Wilcox A N	1651
Walker Mrs A W	1933	Wasserthal-	8541	Weiss M C	1445	Whaley W G	1045	Wilcox E B	10137
Walker C E	8152	Zuccari E von		Weiss M G	1447	Wheeler B M	5969	Wilcox J C	2733
Walker E D	2430	Watanabe C	6234	Weiss W	7499	Wheeler D H	8794	Wilcox L V	2721
Walker G F	2313	Watanabe J	4980	Weissenböck K	980	Whetham E H	7116	Wilcox R S	2585
Walker J C	343	Watanabe K	2920	Weissenrieder	4340	Whetstone R R	2299	Wild P	8446
Walker J C	541	Watanabe Y	3512	F K		Whinery J S	8445	Wilde S A	983
Walker J F	3433	Watanabe Y	4711	Welch C D	2584	Whippy A A	6397	Wilde S A	2245
Walker J R	5964	Watanabe Y	4981	Welch F J	9095	Whitaker R	7461	Wilde S A	2314
Walker K M	2729	Watarl S	4982	Welch H	2106	White A N	5473	Wilde S A	2895
Walker M W	6939	Waterhouse D F	5366	Welch H	4189	White A N	6109	Wilder R M	10192
Walker W P	6551	Waters E A	9891	Wellensiek S J	8068	White E	8586	Wildman H E	213
Walkom A B	83	Waterschoot H F	1516	Weller L E	212	White E A	4620	Wiley E W	6886
Wall G M	9890	Watkins J V	1937	Wells C B	8285	White E D	8108	Wilhelm S	497
Wall J F	4555	Watrous G H Jr	6746	Wells E W	7763	White G F	2732	Wilhelmy O Jr	10142
Wall N J	9104	Watrous R C	2182	Wells Mrs E W	1939	White G O	2927	Wilkins	5174
Wallace J H	244	Watson C J	3763	Wells H D	281	White J	7238	Wikie J B	7049
Wallace M E	4795	Watson D P	979	Wells J B	1940	White J C	7691	Wilkins A H	3342
Wallace M E	9100	Watson Sir J A	10191	Wells J S	981	White J C D	7538	Wilkins P C	7218
Wallace M E	9844	Watson J R Jr	2244	Wells J S	1517	White J M	367	Wilkins P C	7219
Wallace N	9627	Watson W L	1938	Wells O V	9398	White J M	496	Wilkins R A	6076
Wallace R T	1007	Watt C W	9662	Wells O V	9399	White J W	9512	Wilkins S J	4714
Wallace W D	8001	Watt R D	9396	Wells S D	3553	White L M	7040	Willaman J J	5394
Wallace W D	8066	Watts B M	8701	Wells S M	10093	White L W	2896	Willems A E R	4113
Wallace W D	10069	Watts L F	2925	Welsh Hound	4433	White M	8898	Willems R	4341
Wallen V R	2004	Watzl O	5819	Association		White M E	9892	Willems R	4342
Wallentin M	4525	Watzl O	5967	Wely A J M van	7272	White V	8542	Willemsse G S	4114
Walmsley A	1934	Wauthoz V	2926	Wenck	8069	Whitehead G B	6139	Willenberg S	4343
Walsh M C	7000	Way G S	9657	Wendt von	3754	Whitehead H R	7679	Willerton J F	9566
Walsh T	2582	Way M J	6395	Wene G P	5473	Whitehead H R	7709	Willey N B	4158
Walter H H	4510	Wayrynen R	943	Wenger G	9511	Whitehurst J P	8795	Williams C	9704
Walther A	4109	Weatherby C A	221	Wenniger W F M	2184	Whitel T E	4713	Williams C B	6172
Walton L	4154	Weatherby H	3239	de B		Whitlock H W	2410	Williams D H	7716
Waltz A	9395	Weatherby H	3373	Wenzl H	8281	Whitlock J P	8899	Williams E W	7240
Walz A J	335	Weathers L G	557	Wergeland N	3315	Whitman H M	2185	Williams F A	9636
Wamble A C	8002	Weaver C R	5470	Werne B	9236	Whitman W C	1294	Williams G D	10138
Wanderstock J J	8619	Weaver L E	4983	Werner F	5111	Whitney H S	8346	Williams H E	524
Wandi H	1935	Weaver R	9333	Werner G M	7808	Whitt C D	2270	Williams H H	10142
Wang H	4338	Weaver R	8334	Werner H O	8201	Whitten J H	4481	Williams J F	8003
Wang T L	2350	Webb A H	863	Wessom J van	6682	Whittenberger	8187	Williams J F	9031
Wann F B	975	Webb B H	7761	West C	1014	R T		Williams J R	1942
Wann F B	976	Webb C R	7762	West C	8245	Whittig L D	2273	Williams K	7400
Warburton A A	9703	Webb Mrs E R	9467	West C J	3554	Whittinghill M	5876	Williams K A	8796
Ward A L	4184	Webb G	1422	West G	494	Whittinghill M	5970	Williams K T	984
Ward A L	8791	Webb M	8373	West H I	8154	Whitthill M	5970	Williams L O	7030
Ward A L	8792	Weber	4110	West O	3073	Whyte R O	105	Williams R D	3343
Ward G M	977	Weber A	5019			Wibberley G P	9096	Williams R J	1046
Ward H H	8444	Weber A D	4186					Williams T	8447
Ward J D U	3072	Weber A D	4187					Williams T E	1425
Ward J D U	3139	Weber A L	7539					Williamson C O	6622



	Item		Item		Item		Item		Item
Willis P S	7001	Wittmann H	7750	Wright A H	1584	Yoshimura M	3573	Zeiner H M	1947
Willis P S	7189	Wittwer S H	8285	Wright A J	2928	Yoshioka K	3074	Zelenskaf N I	1428
Willis P S	7241	Wittwer W	7766	Wright C E	2940	Young C M	10142	Zeller R	4624
Willis S J	2107	Witz R L	6900	Wright C W	8449	Young E C	4350	Zelter S Z	3783
Wills W J	8597	Witz R L	6956	Wright F B	6941	Young E P	6402	Zembrano C	7243
Willson B	6820	Witzigmann L	4489	Wright G W	3434	Young F B	4248	Zemiri H	5061
Willson A R	403	Woelke A	9519	Wright J	3435	Young H C	343	Zemlaniiskii	2827
Wilson B R	6400	Wohlfahrt	3160	Wright J E	2187	Young H C	5822	L T	
Wilson C D	8662	Wohlzogen F X	3864	Wright J E	986	Young H C Jr	6111	Zentgraf E	3213
Wilson C L	677	Wojciechowski E	6508	Wright J E	3481	Young H J	5678	Zentler A P	8010
Wilson C S	5971	Wolcott G N	6523	Wright J M	5476	Young H J	8668	Zentmyer G A	924
Wilson E	7909	Wolf D	6695	Wright J M	6401	Young H P	7659	Zentmyer G A	989
Wilson E Jr	8152	Wolf G	5972	Wright N	4348	Young H Y	930	Zeuger H	9725
Wilson E E	985	Wolfanger L A	2411	Wright P H	8468	Young L A	10362	Zhdanov A P	1187
Wilson E F	8543	Wolfe C D	4115	Wu B	4986	Young M D	5986	Zhelezniak P G	2897
Wilson F	2108	Wolfe H R	6173	Wulz O	2929	Young M D	5999	Zhelitkova T A	3300
Wilson F S	5070	Wolfe J W	2734	Wurde mann A	8469	Young O C	9074	Zhizhina R G	9032
Wilson G B	726	Wolfe J W	5475	Wursten J L	1427	Young O W	6079	Zhorikov E A	2588
Wilson G S	7637	Wolfe T K	10271	Wurzschmitt B	7242	Young V H	370	Zhuk I A M	6718
Wilson J	1943	Wolff E	4872	Wyant Z N	4614	Youngberg C T	2586	Zhuk I A M	6719
Wilson J B	7050	Wolff H	7473	Wyatt C E	2384	Youngkin S G	8101	Zhukov A B	3214
Wilson J B	7051	Wolff H	7838	Wyatt G A	10231	Yuasa K	5477	Zhukov A B	3240
Wilson J G	2778	Wolff P	6901	Wyatt O E P	1945	Yuki Y	107	Zhukov I V	2998
Wilson J G	4344	Wolfram M L	8967	Wybiral M	1000	Yusef H M	987	Zhukovski A V	5973
Wilson J M	5060	Wolf J	8868	Wye College	9073	Yust H R	5478	Ziegler R J	8470
Wilson M L	7002	Wollny H G	9513	Dept of Hop		Zacha V	678	Zietzschmann O	3962
Wilson M L	9894	Wolters F A	2550	Research		Zadura J	4490	Zikowsky F	5612
Wilson M L	10270	Wolters F A	2833	Wygodzinsky P	6176	Zadura J	4623	Zillhardt	9098
Wilson P P	9998	Womack R B	4557	Wygodzinsky P	6177	Zadura J	4873	Zilly R N	1429
Wilson S G	4345	Wood E	4985	Wygodzinsky P	6178	Zadura J	5222	Zim H S	1948
Wilson S G	5677	Wood G B	8900	Wyllie J	9097	Zafren S I A	3782	Zimina A S	4987
Wilson S V	10139	Wood J A	1471	Wyman D	1946	Zagorodnev S F	2735	Zimmerman C	7638
Wilson S V	10140	Wood J G	1047	Wyzyński J	4349	Zahn H	8008	Zimmerman-	3286
Wilson S V	10141	Wood K L	1011	Xandri	7401	Zahradka L	7465	Griess S	
Wilson W	10193	Wood L B	2351	Tagüena J M		Zaitsev A I	3397	Zimmerman-	10345
Wilson W J	7462	Wood S F	6174	Xavier A de M	4812	Zaitseva N D	2054	Griess S	
Wilson W K	5026	Wood S E	2435	Yakowitz M G	8100	Zakharov N I	1649	Zimmermann H	9166
Wilson W R	4346	Wood W E	1944	Yamahata K	3298	Zakharov V S	6548	Zinecker E	2436
Wilster G H	7403	Wood W W	6175	Yamamoto T	3656	Zakharov V S	6548	Zinno Y	715
Wilster G H	7764	Wood-Baker C S	860	Yamasaki T	6441	Zakharzhevskii	1186	Zlpi B	6820
Wiltchek G	9138	Woodbridge	860	Yamawaki S	6786	Zaki O A	8558	Zitzewitz W	2437
Winans W E	8620	C G		Yamaya K	2246	Zaki Abdel	9009	Zivnaska J A	3344
Winfield L G	9544	Woodcock D	5447	Yamazaki T	3212	Motaal H E	5020	Znamenskiy N N	7402
Winegarden H M	8831	Woodhouse	1258	Yanagawa R	830	Zaks M G	3316	Zocchi R	6237
Wingard S A	368	W W Jr	3572	Yang H P	9936	Zalenskiy N E	3398	Zocchi R	6238
Winkler B	498	Woodroff D	8667	Yang H Y	8284	Zalesny N	3398	Zolnierczyk S	4568
Winkler H	1426	Woodroof J G	6667	Yaniv S	1307	Zamarin E A	2736	Zolotukhin A T	6725
Winkler W O	7052	Woodruff C M	2315	Yarick B E	6945	Zamiatina V B	2316	Zonshtein L I A	1430
Winkler W O	8099	Woods D E	7003	Yarwood C E	405	Zander E	5611	Zöttli H	599
Winlund E S	3521	Woods G T	4347	Yarwood C E	499	Zangheri P	108	Zottner G	4617
Winn H	8906	Woods G T	5184	Yarwood C E	500	Zangheri S	5479	Zubarev G A	6705
Winn W E	7463	Woods J E	85	Yarwood C E	501	Zanini E	1605	Zubrilin A A	3784
Winslow N S	4808	Woodson	175	Yasumatsu K	6235	Zanini E	2109	Zucchini M	1188
Winston J R	1604	Woodson W D	10344	Yasumatsu K	6236	Zannoni I	2587	Zucchini M	3991
Winter J C	7117	Woodworth H C	9637	Yates W W	6018	Zannoni I	9639	Zuckerman B H	8901
Winteringham	7134	Woody A H	6077	Yates W W	6078	Zanoni G	988	Zuliński T	4625
F P W		Wooley W C	6828	Yazawa K	3657	Zanotti M	7466	Zuliński T	4873
Winters H F	2186	Woolley F K	3400	Yeaman A F	8007	Zarefskiy A F	1161	Züllig E	7118
Winters L M	3685	Woolsey L D	8611	Yeary E A	3781	Zarnowski E	5112	Zuluaga P A	1717
Winters R K	3164	Wooster H A Jr	10106	Ylimäki A	502	Zarubin A	3299	Zulueta J de	6080
Winterthur	7765	Wooten O B Jr	6765	Yohe R S	9638	Zauer L M	245	Zulueta M M de	7190
H C E		Wootton S	4647	Yokota T	3631	Zavagli V	4351	Zumft F	5680
Wisconsin Dept	7810	Work P	2053	Yonekura M	3256	Zavattari E	10381	Zumft F	5974
of Agriculture		Wormli B	6611	Yonezawa Y	3619	Zavesin I S	5679	Zumft F	5975
Wise G H	4151	Wöstman B	9448	Yorke C	5027	Zbofil J	5113	Zumft F	5976
Wise S G A	8666	Woyciechowska	4622	Yorke C	5027	Zebrowski S	3961	Zumft F	5976
Wisniewski T	4621	S		Yoshida K	10070	Zecha E	371	Zweede M A	8287
Wiss O	7053	Wray D L	5821	Yoshida M	3655	Zehngraff P J	2930	Zweifelh	8188
Witherup S	5306	Wren W G	8931			Zeller	7767	Zwengel	3785
Wittig W L	8928	Wright A	369					Zwet A J van	6403
Wittmann H	7464	Wright A H	821					Zwijnenberg M G	4715
								Zwintzsch M	5480















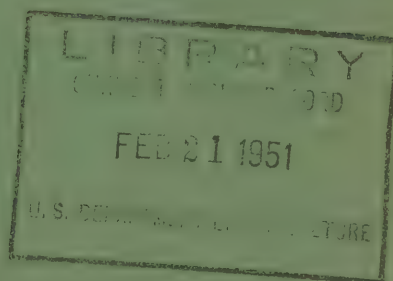




# BIBLIOGRAPHY OF AGRICULTURE



U.S. DEPARTMENT  
OF AGRICULTURE  
LIBRARY





The subject index for volume 15 of the Bibliography of Agriculture will appear as number 12 of volume 15, the issue of December 1951.

Abbreviations used in this publication are from the United States Department of Agriculture Bibliographical Bulletin 12, List of Serials Currently Received in the Library of the United States Department of Agriculture, November 1, 1949. June 1950.

Call numbers following the citations are those of the United States Department of Agriculture Library. Please use them when requesting publications on loan from the Library.

Except for printed publications of the Department of Agriculture which are usually available in limited supply for free distribution, the publications listed herein are not available for free distribution from the Department. However, photoprint or microfilm copies of any publication listed may be obtained from the Library. Copying charges for each periodical article or book are:

**MICROFILMS:**

\$1.00 for each 50 pages or fraction thereof from a single article or book.

**PHOTOPRINTS:**

\$1.00 for each 10 pages or fraction thereof from a single article or book.

**ALL CHARGES ARE CASH WITH ORDER.** (Only Federal agencies are exempt.)

Enclose payment in cash, library coupon, check, or money order drawn to the Treasurer of the United States.

**LIBRARY COUPONS**—United States Department of Agriculture Library coupons valued at \$1.00 each may be ordered in any quantity.

The printing of this publication has been approved by the Director of the Bureau of the Budget. (Jan. 11, 1950).



UNITED STATES DEPARTMENT OF AGRICULTURE

LIBRARY

BIBLIOGRAPHY OF AGRICULTURE

Vol. 15

February 1951  
Items 10435-18163

No. 2

CONTENTS

	Item		Item		Item
Plant Science	10435-12147	Soil Management	12234	Seasoning, Conditioning and	
Systematic and Geographic		Soil Fertility	12271	Finishing	12905
Botany	10510	Tilth and Tillage	12371	Wood Preservation and Damage	
Spermatophytes	10524	Drainage, Irrigation, Water			12922
Pteridophytes	10576	Supply, etc.	12388	Forest Products	12931
Bryophytes	10580	Erosion and Control	12457	Lumber and Rough Products	
Algae	10585	Sanitation	12522		12936
Fungi and Lichens	10599	Materials for Soil Improvement		Building Construction	12941
Pathology	10619		12527	Veneers, Plywood and	
Fungus Diseases	10712	Primary Materials	12528	Adhesives	12944
Bacterial Diseases	10827	Secondary and Minor Element		Furniture	12967
Virus Diseases	10836	Materials	12533	Containers	12968
Nematodes	10874	Mixed Fertilizers and Fertilizer		Pulp and Paper	12973
Ecology	10898	Technology	12534	Chemical Products and	
Morphology, Anatomy, and		Fertilizer Statistics	12538	Distillates	13010
Cytology	10932	Mineral Soil Amendments	12557	Naval Stores	13018
Genetics	10993	Manures and Composts	12559	Other Forest Products	13025
Physiology	11023	Forestry	12583-13075	Wood Technology	13047
Biochemistry	11181	General	12583	Properties and Structure	13059
Field Crops	11220	Education	12600	Animal Industry	13076-14575
Cereals	11256	Policies, Programs, Administra-		Breeds and Breeding	13076
Fiber Crops	11356	tion	12607	Feeds and Feeding	13096
Forage and Grasses	11379	Legislation and Taxation	12657	Veterinary Medicine	13196
Oil Crops	11503	Description and Resources	12660	Miscellaneous	13269
Sugar Crops	11524	Individual Genera	12690	Cattle	13304
Tobacco	11546	Forest Management and Finance		Breeds and Breeding	13304
Horticultural Crops	11555		12701	Feeds and Feeding	13448
Fruits	11598	Farm Woodlands	12725	Veterinary Medicine	13539
Citrus and Subtropical	11639	Mensuration	12737	Miscellaneous	13636
Deciduous	11664	Aerial Surveying and Photog-		Dogs and Cats	13712
Small	11718	raphy	12746	Breeds and Breeding	13712
Nuts	11767	Silviculture	12747	Feeds and Feeding	13748
Shade Trees and Ornamental		Silvicultural Practices	12772	Veterinary Medicine	13749
Plants	11777	Seeding and Planting	12780	Miscellaneous	13776
Vegetables	11950	Forest Protection and Damage		Fur Animals - Pen Raised	13794
Weeds and Poisonous Plants	12033		12809	Breeds and Breeding	13794
Miscellaneous	12092	Fire	12816	Feeds and Feeding	13802
Soils and Fertilizers	12148-12582	Forest Influences	12823	Veterinary Medicine	13807
Soil Science	12148	Miscellaneous Forest Uses	12833	Miscellaneous	13813
Soil Physics	12159	Forest Industries	12835	Horses and Mules	13822
Soil Chemistry	12168	Lumbering	12847	Breeds and Breeding	13822
Soil Biology	12188	Lumbering Equipment	12853	Veterinary Medicine	13855
Soil-Plant-Animal Relation-		Logging	12867	Miscellaneous	13886
ships	12210	Sawmills	12874	Laboratory Animals, Small	13909
Soil Genesis, Formation, Classi-		Processing and Woodworking		Breeds and Breeding	13909
fication, and Mapping	12222		12893	Miscellaneous	13912

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.  
\$6.00 per year, domestic; \$8.00 per year, foreign. Single copies vary in price.



	Item		Item		Item
Poultry	13916	Walls and Fences	15603	Seeds	17048
Breeds and Breeding	13916	Utilities	15610	Sugar and Sirups	17072
Feeds and Feeding	14002	Electricity and Electrification		Tobacco	17130
Veterinary Medicine	14102		15610	Miscellaneous	17142
Miscellaneous	14205	Heating, Lighting, and Radiation	15630	Agricultural Economics and Rural	
Rabbits	14328		15630	Sociology	17157-17954
Breeds and Breeding	14328	Power Plants, Motors and		Agricultural Finance	17172
Feeds and Feeding	14336	Engines	15634	Credit	17176
Veterinary Medicine	14337	Sewage and Waste Disposal	15639	Income	17216
Miscellaneous	14346	Telephones	15641	Inflation	17222
Sheep and Goats	14353	Water Supply	15643	Insurance	17223
Breeds and Breeding	14353	Agricultural Products: Processing,		Taxation	17249
Feeds and Feeding	14373	Distribution, and Statistics	15647-	Agricultural Labor and Wages	
Veterinary Medicine	14398		17156		17276
Miscellaneous	14419	Analysis and Composition	15662	Agriculture - Situation, Policies,	
Swine	14443	Consumption, etc.	15684	and Programs	17346
Breeds and Breeding	14443	Distribution, etc.	15688	Subsidies	17426
Feeds and Feeding	14457	Grading, etc.	15746	Cost and Standard of Living	17479
Veterinary Medicine	14525	Packing and Packaging	15759	Farm Management and Land	
Miscellaneous	14559	Prices, etc.	15764	Economics	17480
Entomology	14576-15251	Processing and Storage	15786	Bookkeeping and Records	17553
General - Economic	14585	Statistics	15821	Costs and Returns	17556
Apiculture and Apis Mellifera		Beverages and Condiments	15837	Land Settlement and Colonization	
	14697	Dairy Products	15910		17595
Arachnida, etc.	14858	Analysis and Composition	15988	Land Tenure	17617
Coleoptera	14889	Consumption, etc.	16012	Land Utilization	17691
Diptera	14956	Distribution, etc.	16017	Land Values, etc.	17701
Culicidae	15003	Grading, etc.	16060	Population	17705
Hemiptera	15010	Packing and Packaging	16082	Rural Social Organization	17716
Hymenoptera	15070	Prices, etc.	16088	Human Ecology	17723
Lepidoptera	15100	Processing and Storage	16101	Institutions	17733
Orthoptera	15203	Statistics	16175	Leadership	17835
Sericulture and the Silkworm	15219	Feed and Forage Crops	16181	Rural Organizations and	
Smaller Orders	15224	Fibers and Textiles	16216	Movements	17837
Agricultural Engineering	15252-	Fruits, Vegetables, and Nuts	16340	Rural Social Psychology	17896
	15646	Analysis and Composition	16380	Trade, Foreign and International	
General and Miscellaneous	15252	Consumption, etc.	16396		17899
Machines and Equipment	15270	Distribution, etc.	16405	Food and Human Nutrition	17955-
Animal Husbandry	15344	Grading, etc.	16437		18028
Cultivation and Tillage	15375	Packing and Packaging	16453	Food Habits	18004
Fertilizer and Seed Distributors		Prices, etc.	16458	Nutritive and Vitamin Content	
	15391	Processing and Storage	16462		18008
Harvesting	15401	Statistics	16534	Miscellaneous	18029-18163
Land Clearing Equipment	15433	Grain and Grain Products	16541	History and Biography	18076
Processing Equipment Used on		Honey and Beeswax	16661	Home Management	18109
the Farm	15435	Livestock and Livestock Products		International Relations	18123
Repair, Maintenance, and Con-			16677	Meteorology	18128
struction	15462	Analysis and Composition	16722	Research	18139
Spraying and Dusting	15468	Consumption, etc.	16732	Statistics	18160
Vehicles	15477	Distribution, etc.	16734	U. S. D. A. Publications	p. 167
Structures and Rural Housing	15519	Grading, etc.	16754	State Agr. Expt. Sta. Publications	
Animal Shelters and Service		Packing and Packaging	16774		p. 172
Buildings	15532	Prices, etc.	16775	State Agr. Ext. Serv. Publications	
Farmhouses and Farmsteads		Processing and Storage	16780		p. 174
	15578	Statistics	16840	Food and Agr. Organ. of the U. N.	
Greenhouses and Plant Service		Oils and Oilseeds	16843		p. 176
Buildings	15585	Poultry and Poultry Products	16913	AUTHOR INDEX	p. 177
Materials and Methods	15587	Rubber and Rubber Substitutes			
Storage Structures	15593		17025		

## CORRECTION

Through error the joint author for items 35022, 59442, and 80939 of V. 14, 1950 was omitted. The author entry to the three items should read Cox, H. and Roberts, E.

The printing of this publication has been approved by the Director of the Bureau of the Budget. (Jan. 11, 1950)



## PLANT SCIENCE

## GENERAL

- 10435 ALLRED, W. J. Wyoming's state tree. *Wyo. Wild Life* 14(9):10-13, 36-37. Oct. 1950. 412.9 W993 Cottonwood.
- 10436 ANLIKER, J. Die Inseln von Brissago, der botanische Garten der Südschweiz. *Deut. Baumsch.* 2:247 253. Oct. 1, 1950. 80 D486
- 10437 ARESES VIDAL, R. Contribución al conocimiento de las plantas exóticas cultivadas en España. *Montes* 34:459-468. July/Aug. 1950. 99.8 M763
- 10438 ARNOLD, C. A. Megaspores from the Michigan coal basin. *Michigan. U. Mus. Paleontol. Contrib.* 8:59-111. 1950. 402.1 Ar6M
- 10439 BHAT, N. R. Crop weather studies as an aid to the breeding and introduction of crop plants. *Poona Agr. Col. Mag.* 41:45-49. June 1950. 22 P79
- 10440 BLAGOVESHCHENSKIĬ, E. N. Natural conditions of Eastern Predunguz'e. (In Russian.) In Pavlovskii, E. N., and I'lin, M. M., eds. *Pustyni SSSR i ikh osvoenie*, p. 179-183. Moskva, Akademii Nauk SSSR, 1950. 409 P282
- Vegetation.
- 10441 BLANCHARD, L. E. Balance in nature. *Cactus & Succulent J.* 22:134-139. Sept./Oct. 1950. 451 C11
- 10442 BOTANICAL SOCIETY OF THE BRITISH ISLES. Year book, 1950 (including distributor's report, 1948, 1949). *Arbroath*, 1950. 104 p. 451 B658Y
- 10443 BOYNTON, D. Arboretum in Honduras. *Cornell Plantations* 7:13-14. Autumn 1950. 409.6 C812
- 10444 BROCKMAN, C. F. Washington's stone woodpile. *Amer. Forests* 56(12):26, 28, 41. Dec. 1950. 99.8 F762
- Petrified Ginkgo trees.
- 10445 BROWNELL, L. W. Fruits of some common wild plants. *Nature Mag.* 43:420-424. Oct. 1950. 409.6 N214
- Photographs.
- 10446 CERCOS, A. P. Antibiotico dinr. 49-1 (fungocina) producido por *Bacillus subtilis* con actividad sobre hongos patogenos de animales y vegetales. Argentina. *Inst. de Fitotecnica P. Tec.* 36, 13 p. 1950. 464.9 Ar324B
- 10447 CHEVALIER, A. L'amiral J. Dumont d'Urville et ses découvertes scientifiques spécialement en Océanie et dans les terres australes. Paris. Acad. des Sci. *Compt. Rend.* 231:805-808. Oct. 23, 1950. 505 P21
- 10448 CHEVALIER, A. La décadence des sols et de la végétation en Afrique Occidentale Française et la protection de la nature. *Rev. Internat. de Bot. Appl. d'Agr. Trop.* 30:349-353. July/Aug. 1950. 26 R323
- 10449 COLLINS, S. It's closer than you think. *N. Y. Bot. Gard. J.* 51:268-273. Nov. 1950. 451 N48J
- Areas with native vegetation.
- 10450 CONSTANTINI, M. Arboles en la trayectoria del Libertador. *Bolsa de Com., Rosario. Rev.* 38(928): 15-17. Sept. 15, 1950. 287 R71
- 10451 CRANE, M. B. The origin and improvement of cultivated plants. *Roy. Hort. Soc. J.* 75:427-435. (To be cont.) Nov. 1950. 84 L84J
- 10452 DUDDINGTON, C. L. Carnivorous fungi. *Discovery* 11:291-294. Sept. 1950. 472 D63
- 10453 DUPUY, A. Considérations sur le jardin botanique de Clermont-Ferrand. *Rev. des Sci. Nat. d'Auvergne (n.s.)* 15:83-88. 1949. 410 R327
- 10454 FISH, G. R. A method for obtaining bacteria-free cultures of a marine flagellate and *Enteromorpha intestinalis* using penicillin. Göteborg. Bot. Trädgård. *Meddel.* (1948) 18:81-89. 1950. 451 G712
- 10455 FRYE, E. M. Random notes from a car window. *Amer. Rock Gard. Soc. B.* 8:89-90. Sept./Oct. 1950. 81 Am342
- Desert vegetation.
- 10456 GIBBS, R. D. Botany, an evolutionary approach. Philadelphia, Blakiston, 1950. 554 p. 463 G352
- 10457 GILBERT, G. E. Studies concerning the vertical distribution of ragweed pollen and *Alternaria* spores in the Columbus, Ohio, atmosphere. (Abs.) *Ecol. Soc. Amer. B.* 31:52. Sept. 1950. 410.9 Ec7
- 10458 GILL, E. D., and BAKER, A. A. Fossil plants in basalt at Maribyrnong, Victoria. *Victorian Nat.* 87: 123-129. Ref. Oct. 1950. 410 V66
- 10459 GOLITSYN, S. V. A few words on shkerivani. (In Russian.) *Bot. Zhur.* 35:192-193. Mar./Apr. 1950. 451 R923
- Mountain shrub in Adzharia.
- 10460 GOTTSALL, R. Y., and others. Antibacterial substances in seed plants [*Aloe vera* and *Menispermum canadense*] active against tubercle bacilli. *Amer. Rev. Tuberc.* 62:475-480. Ref. Nov. 1950. 448.8 Am32
- J. C. Jennings, L. E. Weller, C. T. Redemann, E. H. Lucas, and H. M. Sell, joint authors.
- 10461 GREEN, S. In sand and storm. (In Swedish.) *Trädgårdstidningen* 22(10):10-12. Oct. 1950. 80 T67
- Vegetation on the west coast of Sweden.
- 10462 HANSEN, H. P. Postglacial forests along the Alaska Highway in British Columbia. *Amer. Phil. Soc. Proc.* 94:411-421. Oct. 19, 1950. 500 P533
- 10463 HARRISON, C. M. How we get new plants; the U. S. D. A. conducts thorough trials of all foreign plants to determine their adaptability and use in American agriculture. *Hoard's Dairyman* 95:782-783. Nov. 10, 1950. 44.8 H65
- 10464 HEYWOOD, V. H. Plant collecting in the mountains of Andalucia. I. *Roy. Hort. Soc. J.* 75:444-452. Nov. 1950. 84 L84J
- 10465 HILLIER, J. Electron microscopy of micro-organisms and viruses. *Annu. Rev. Microbiol.* 4:1-20. Ref. 1950. 448.3 An72
- 10466 HILTON, R. J. An arboretum for Edmonton. *West. Canad. Soc. Hort. Rpt. Proc.* 6:57. 1950. 82 W522
- 10467 HOFER, K. Fluoreszenzmikroskopie und zellphysiologie. *Naturw. Ver. f. Steiermark. Mitt.* 77/78: 164-166. 1949. 510 G79
- In botany.
- 10468 HOPKINS, J. S. Differential flotation and deposition of coniferous and deciduous tree pollen. *Ecology* 31:633-641. Ref. Oct. 1950. 410 Ec7
- 10469 JACOB, K., and JACOB, C. A preliminary account of the structure of the cuticles of *Dicroidium* (Thinnfeldia) Fronds from the Mesozoic of Australia. *Natl. Inst. Sci. India. Proc.* 16:101-126. Ref. Mar./Apr. 1950. 513 N212
- 10470 JEFFORDS, D. B. Death masks in Lava; a forest is preserved by the same hand that destroyed it. *Nat. Hist.* 59:420-421. Nov. 1950. 500 N483J
- 10471 KIAER, H. F. Fortegnelse over meddelelser om Grønland [List of reports on Greenland]. København, Reitzels, 1950. 74 p. 502 C792B
- Includes vegetation.
- 10472 KORDE, K. B. On the morphology of Siphonales of the Carboniferous period in Northern Ural. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:569-571. July 21, 1950. 511 P444A
- Uraloporella n.g.
- 10473 LEANDRI, J. Quelques aspects de la végétation et de la protection de la nature en Corse. *Terre et la Vie* 97:138-158. July/Sept. 1950. 410.9 P21
- 10474 LECLERCQ, S. Note préliminaire sur le Rhacophyton zygopteroides nov. sp. Leclercq. Brussels. Acad. Roy. de Belge. B. de la Cl. des Sci. 36:77-91. Ref. 1950. 504 B83B
- 10475 LIND, E. M. The history and vegetation of some Cheshire meres. *Manchester Lit. & Phil. Soc. Mem. & Proc.* (1948/49) 90:17-36. 1950. 501 M31M
- 10476 LIVEROVSKIĬ, I. U. A. Priroda fuzhnoi poloviny sovetskogo Dal'nego Vostoka; fiziko-geograficheskaia kharakteristika [Nature of the southern half of Soviet Far East; physico-geographical description]. Moskva, Gos. Izd-vo Geogr. Lit-ry, 1949. 379 p. (Akademii Nauk. Institut Geografii. Priroda SSSR) 331 L75
- 10477 LÜDI, W. Beitrag zur kenntnis der Salix- und Artemisia-pollen. *Geobot. Forschinst. Rübel. Zürich. Ber.* 1949:101-109. 1950. 451 Z83Be
- 10478 LÜDI, W. Paul Müllers pollendiagramme von Weierbach, Luzern. *Geobot. Forschinst. Rübel. Zürich. Ber.* 1949:94-101. 1950. 451 Z83Be
- 10479 MARZELL, H. Hexenkräuter. *Orion* 5:686-689. Sept. 1950. 474 Or4
- 10480 MÜLLER, P. Pollenanalytische untersuchungen in eiszeitlichen ablagerungen bei Weierbach (Kt. Luzern). *Geobot. Forschinst. Rübel. Zürich. Ber.* 1949: 67-94. 1950. 451 Z83Be
- 10481 MÜLLER-STOLL, W. R. Bemerkungen zur quantitativen pollenanalyse tertiärer ablagerungen. *Planta* 38:209-212. Ref. 1950. 450 P693



- 10492 NEGRONI, P. Estudios sobre la penicillina. VI. Obtención de una buena película del *Penicillium notatum* en los medios líquidos. Argentina. Inst. Bact. Malbrán. Rev. (1945-48)13:128-132. Ref. 1950. 448.3 Ar3 English summary.
- 10493 OGATA, K., NAKAZAWA, K., and OUCHI, N. Studies on Actinomycetes and its antibiotic produced by Actinomycetes. IV-V, VII. (In Japanese.) J. Antibiotics 3: 435-439, 440-444, 517-523. Ref. June-July 1950. 396.8 J824 English summary.
- IV, On the mat formation of A-809 strain and its antibiotic, by K. Ogata, and K. Nakazawa; V, Dextromycin, a new antibiotic produced by Actinomycetes, by K. Ogata; VII, On the isolation of special antiphlebotomy factor from an Actinomycetes in a crystalline form, by N. Ouchi.
- 10494 PETROV, M. P. Problems in botanical investigation of deserts of Middle Asia in connection with their agricultural utilization. (In Russian.) In Pavlovskii, E. N., and I'lin, M. M. eds. Pustyni SSSR i ikh osvoenie, p.77-104. Ref. Moskva, Akademiia Nauk SSSR, 1950. 409 P282
- 10495 PETROV, M. P. Problems in the study and utilization of vegetation of Turkmenistan deserts. (In Russian.) In Pavlovskii, E. N., and I'lin, M. M., eds. Pustyni SSSR i ikh osvoenie, p.140-152. Ref. Moskva, Akademiia Nauk SSSR, 1950. 409 P282
- 10496 PIRES, M. A. Brief considerations on the principal factors in the destruction of Madeira flora. I. (In Portuguese.) Frutas da Madeira 10:41-42. Aug.1950. 286.83 F9422 Conservation.
- 10497 PIVETEAU, J. Images de mondes disparus. Nature [Paris] 3186:303-306. (To be cont.) Oct.1950. 473 N21
- 10498 RINGUELET, E. J. Apuntes sobre la vegetación de las dunas litorales de Monte Hermoso. La Plata. U. Nac. Facul. de Agron. Rev. 27:97-112. Ref. Dec. 1949. 9 R32 English summary.
- 10499 ROSS-CRAIG, S. Drawings of British plants. IV. London, Bell, 1950. 26 plates. 458 R73
- 10490 SARLET, H. Note sur l'actinomycine produite par *Streptomyces* S 67. Enzymologia 14:49-50. June 15, 1950. 390.08 En9 English summary.
- 10491 SCHWICKERATH, M. Fossiles und rezentes haselvorkommen im Hohen Venn und Vennrand. Decheniana 104:95-97. 1950. 509 B64
- 10492 SHEFTEL, I. M. Nikitskii' [Botanical] Garden-greenhouse of U.S.S.R. (In Russian.) Priroda 39(8):90-95. Aug.1950. 410 P933
- 10493 SINGAPORE. BOTANIC GARDENS DEPT. Annual report for 1949. Singapore, 1950. 6 p. 451 St8
- 10494 SOUSA, A. T. DE. Argel Botanical Garden. (In Portuguese.) Frutas da Madeira 10:65, 68-69. Nov.1950. 286.83 F9422
- 10495 STACH, E. Vom werden der kohle. Orion 5: 698-703. Sept.1950. 474 Or4
- 10496 STEVENS, O. A. How seeds and fruits are scattered. N. Dak. Outdoors 13(4):8-9. Oct.1950. 412.9 N815
- 10497 STIPANICIC, P. N., and MENÉNDEZ, C. A. Contribución al conocimiento de la flora fosil de Barreal, Provincia de San Juan, v. I. Buenos Aires, 1949. 32 p. Ref. 402.1 St5
- 10498 SUESSENGUTH, K. The flora of Australia as a measure of the antiquity of the angiosperms. Pacific Sci. 4:287-308. Ref. Oct.1950. 475 P11
- 10499 TALLARICO, G. The Ionian forest. (In Italian.) Ital. Agr. 87:613-616. Oct.1950. 16 It1 Vegetation in Calabria.
- 10500 THIERGART, F. Kohlige erhaltungszustände einiger flügelloser koniferenpollen im Tertiär. Planta 38:205-208. 1950. 450 P693
- 10501 VARMA, C. P. A new genus of calcareous alga (Dasycladaceae) from the Ranikot beds (Palaeocene) of the Punjab Salt Range. Curr. Sci. 19:207-208. July 1950. 475 Sci23
- 10502 VRIES, V. DE. Pseudorelicts of Vlieland. (In Dutch.) Levende Nat. 53:141-146. Aug.1950. 410 L57 Vegetation.
- 10503 WALSH, T. J. The botanic gardens, Glasnevin, Dublin, Ireland. Arboretum B. 13(3):4-7, 31. Fall 1950. 451 Ar1
- 10504 WELTEN, M. Die alpwiederodung im pollen-diagramm. Geobot. Forschinst. Rübel. Zürich. Ber. 1948: 57-67. 1950. 451 Z83Be
- 10505 WELTEN, M. Beobachtungen über den rezenten pollenniederschlag in alpinen vegetation. Geobot. Forschinst. Rübel. Zürich. Ber. 1949:48-57. 1950. 451 Z83Be
- 10506 WICHERS, J. W. De plantenwereld in een notepad [The plant world in a nutshell]. Baarn, Drukkerij Hollandia, 1950? 281 p. [Notedop-Ser.] 463 W633
- 10507 WIDDER, F. Ginkgo und telomtheorie. Naturw. Ver. f. Steiermark. Mitt. 77/78:181-183. 1949. 510 G79
- 10508 WILLIS, J. H. A botanical retrospect (F.N.C.V., 1880-1950). Victorian Nat. 67:65-70. Aug.1950. 410 V66 Field Naturalists Club of Victoria.
- 10509 ZALENSKI, O. V. Ways of utilizing the high mountain areas of Pamir for plant cultivation. (In Russian.) In Pavlovskii, E. N., and I'lin, M. M., eds. Pustyni SSSR i ikh osvoenie, p.153-178. Ref. Moskva, Akademiia Nauk SSSR, 1950. 409 P282

## SYSTEMATIC AND GEOGRAPHIC BOTANY

## General

- 10510 BAKER, W. H. Plant records from Curry County, Oregon. L. West. Bot. 6:82-84. Oct.30, 1950. 450 L47
- 10511 BARBOUR, R. W., and BARBOUR, B. L. Notes on the plants of Harlan County, Kentucky. Castanea 15: 125. Sept.1950. 450 So82
- 10512 BOLOS Y VAYREDA, A. DE. Vegetación de las comarcas barcelonenses. Barcelona, 1950. 579 p. (Instituto Español de Estudios Mediterráneos. Publicaciones sobre Botánica) 459.9 B632
- 10513 HÄRD, F. Some novelties for Värmland's flora. IV. (In Swedish.) Göteborg. Bot. Trädgård. Meddel. (1948)18:25-28. 1950. 451 G712
- 10514 HORN, H. Tristicha, Najas, and Sirodotia in Liberia. Göteborg. Bot. Trädgård. Meddel. (1948)18:185-197. Ref. 1950. 451 G712
- 10515 JONES, G. N. Flora of Illinois. Ed. 2. Amer. Midland Nat. Monog. 5, 368 p. 1950. 500 Am3
- 10516 KNOWLTON, C. H. Flora of Rocky Woods Reservation, Medfield, Massachusetts. Medfield, 1949. 11 p. 455.29 K76
- 10517 KOEGELER, K. Mittelmeer-flora in Graz. Naturw. Ver. f. Steiermark. Mitt. 77/78:93-100. 1949. 510 G79
- 10518 LONG, G. La flore et la vegetation des domes montagneux du Centre Tunisien. B. Econ. et Social de la Tunisie 43:17-23. Aug.1950. 280.8 B874
- 10519 MACBRIDE, J. F. Flora of Peru. Field Mus. Nat. Hist. Chicago. Bot. Ser. 13:781-999. Nov.17, 1950. 500 C432B
- 10520 MCGREGOR, R. L., and HERR, W. H. Kansas plants new to Kansas herbaria. V. Kans. Acad. Sci. Trans. 53:365-369. Sept.1950. 500 K13T
- 10521 MARIE, R., and MONOD, T. Etudes sur la flore et la végétation du Tibesti. Inst. Franç. d'Afrique Noire. Mém. 8, 140 p. Ref. 1950. 515 D14M
- 10522 RINGUELET, E. J. El sistema engleriano y los sistemas posteriores en la enseñanza de la sistemática. La Plata. U. Nac. Facul. de Agron. Lab. de Bot. B. 2: 2. June 1950. 451 L312
- 10523 SKOTTSBERG, C. Apuntes sobre la flora y vegetación de Frai Jorge (Coquimbo, Chile). Göteborg. Bot. Trädgård. Meddel. (1948)18:91-184. Ref. 1950. 451 G712

## Spermatophytes

- 10524 ALLARD, H. A. Two species of *Rubus* new for Massachusetts. Castanea 15:124-125. Sept.1950. 450 So82
- 10525 BACKEBERG, C. New plant descriptions. Cactus & Succulent J. Gt. Brit. 12:81. Oct.1950. 450 C113
- 10526 BUXBAUM, F. Polyphyletic origin of the genus *Mammillaria*. Cactus & Succulent J. Gt. Brit. 12: 76-78. Oct.1950. 450 C113
- 10527 CUATRECASAS, J. New and noteworthy Colombian trees. Yale U. School Forestry. Trop. Woods 96:37-47. Sept.1, 1950. 99.08 Y1Tr
- New species in: *Sacoglottis*, *Vantanea*, *Quina*, *Ouratea*, and *Elvatia*.



- 10528 DIEHL, W. W., and FOSBERG, F. R. Taxus in Piedmont Virginia. *Castanea* 15:129-131. Sept.1950. 450 So82
- 10529 DUNN, H. A. Orchids of Panama, *Mormodes ignea*. Amer. Orchid Soc. B. 19:607. Nov.1950. 80 Am329
- 10530 FOLQUE, N. A. P. DE B. Contributions for a study of the genus *Trifolium* in Portugal. (In Portuguese.) *Melhoramento* 1(2):11-120. Ref. 1949. 105.7 M48
- 10531 GENTRY, H. C. Studies in the genus *Dalea*. *Madroño* 10:225-250. Oct.1950. 450 M26
- 10532 GOSSWEILER, J. Exotic flora of Angola. (In Portuguese.) *Agron. Angolana* 3:143-167. (Concl.) 1950. 24 Ag83  
English summary.
- 10533 GULLLAUMIN, A. *Plantae neocaledonicae* a C. Skottsberg a. 1949 lectae. (96<sup>e</sup> contribution à la flore de la Nouvelle-Calédonie.). Göteborg. Bot. Trädgård. Meddel. (1948)18:247-265. 1950. 451 G712  
Includes new species in: *Platyspermation* n.g., *Syzygium*, *Tapeinosperma*, *Planchonella*, *Parsonia*, *Dendrobium*, and *Lyperanthus*.
- 10534 HALL, H. A collecting trip from Kirstenbosch to Little Namaqualand. III. Natl. Cactus & Succulent J. 5: 47-48. (Concl.) Sept.1950. 450 N21
- 10535 HAWKES, A. D. Major genera of cultivated orchids. VII. Amer. Orchid Soc. B. 19:606-607. Nov. 1950. 80 Am329
- 10536 HOWELL, J. T. *Juncus capitatus* in California L. West. Bot. 6:88. Oct.30,1950. 450 L47
- 10537 HOWELL, J. T. Studies in California *Aplopappus*. L. West. Bot. 6:84-88. Oct.30,1950. 450 L47
- 10538 HOWELL, J. T. Variations in *Eriogonum spergulinum*. L. West. Bot. 6:75-81. Oct.30,1950. 450 L47
- 10539 JACQUES-FELIX, H. Notes sur les graminées d'Afrique tropicale. II. Les Arundinellées. Rev. Internatl. de Bot. Appl. d'Agr. Trop. 30:418-424. July/Aug. 1950. 26 R323
- 10540 JANCHEN, E. Das system der koniferen. Österr. Akad. der Wiss. Math.-Natwiss. Kl. Sitzber. Abt. 1. 158:155-262. 1949. 510 V67
- 10541 KEARNEY, T. H. A plant [Gayoides crispum] new to California. L. West. Bot. 6:81. Oct.30,1950. 450 L47
- 10542 LARSEN, E. L., ed. Pehr Kalm's description of the North American mulberry tree. Agr. Hist. 24: 221-227. Oct.1950. 30.9 Ag8
- 10543 LEANDRI, J. Des confères de la flore tertiaire retrouvés vivants en Chine. Terre et la Vie 97 159-160. July/Sept.1950. 410.9 P21  
Metasequoia.
- 10544 LEROY, J. F. Note sur le noyers (*Carya* et *Annemocarya*) sauvages d'Indochine. Rev. Internatl. de Bot. Appl. d'Agr. Trop. 30:425-428. July/Aug.1950. 26 R323
- 10545 LEWTON, F. L. Notes on some wild flowers of central Florida. Fla. Nat. 23:114-118. Oct.1950. 413.9 F66F
- 10546 LI, H. L. Studies in the Scrophulariaceae of Taiwan. Taiwan Mus. Q. J. 3:55-80. June 1950. 513 T133
- 10547 LOOMIS, H. F. The bell-flowered *Amorpha-phallus*. Natl. Hort. Mag. 29:168-170. Oct.1950. 80 N216
- 10548 MAGUIRE, B. *Lesquerella* collected by H. D. Ripley and R. C. Barneby. L. West. Bot. 6:73-75. Oct. 30,1950. 450 L47
- 10549 MARTINEZ CROVETTO, R. Las malezas de los cespedes en la Capital Federal y alrededores. Argentina. Dir. Gen. de Invest. Agr. Rev. de Invest. Agr. 4:1-45. Ref. Jan.1950. 9 R329  
Argentina.
- 10550 MIÈGE, J. Caractères du *Dioscorea minutiflora* Engl. Rev. Internatl. de Bot. Appl. d'Agr. Trop. 30: 428-432. July/Aug.1950. 26 R323
- 10551 MULLER, K. K. Native buckwheats, *Eriogonum* species. Santa Barbara Bot. Gard. L. 1:65-72. Sept.1950. 451 Sa5
- 10552 PEATTIE, D. C. A natural history of trees of eastern and Central North America. Boston, Houghton Mifflin, 1950. 606 p. 454 P32
- 10553 PECK, M. E., and OWNBEY, M. A new species of *Polygonum* from Oregon. *Madroño* 10:250-251. Oct. 1950. 450 M26
- 10554 PERRIER DE LA BATHIE, H. Une nouvelle vanille de Madagascar. Rev. Internatl. de Bot. Appl. d'Agr. Trop. 30:435-436. July/Aug.1950. 26 R323  
*Vanilla coursii*.
- 10555 PICHON, M. Classification des Apocynacées: XXXI, le fruit des genres *Thevetia* et *Ahoval*. Paris Mus. Natl. d'Hist. Nat. B. (ser.2)22:291-294. Mar.1950. 410.9 P213
- 10556 PLATT, R. B. Two Mid-Appalachian violets. *Castanea* 15:126-129. Sept.1950. 450 So82
- 10557 POOLE, A. L. Studies of New Zealand *Nothofagus*. I. Roy. Soc. New Zeal. Trans. & Proc. 78:363-380. Ref. Aug.1950. 514 W46
- 10558 RABÉCHAULT, H., and LOURD, J. Le chanvre-ortie (*Laportea canadensis* L. Gaud). Coton et Fibres Trop. 5:121-136. (To be cont.) Ref. Sept.1950. 73.8 C82
- 10559 SCHAEFFER, R. L. The vascular flora of Northampton County, Pennsylvania. Philadelphia, 1949. 702 p. Ref. 455.36 Schl  
Thesis - University of Pennsylvania.
- 10560 ST. JOHN, H. The subgenera of *Dubautia* (Compositae): Hawaiian Plant Studies. 18. Pacific Sci. 4:339-345. Ref. Oct.1950. 475 P11
- 10561 SCHWEINFURTH, C. A new *Brassia* from Mexico. *Ceiba* 1:178-180. Oct.31,1950. 475 C32
- 10562 SKOTTSBERG, C. The genus *Chitropetalum* Adr. Juss. in Chile. Göteborg. Bot. Trädgård. Meddel. (1948)18:29-79. Ref. 1950. 451 G712
- 10563 SMALL, J. A. *Carex kobomugi* Chwi at Island Beach, New Jersey. (Abs.) Ecol. Soc. Amer. B. 31:53. Sept.1950. 410.9 Ec7
- 10564 STANDLEY, P. C. El ciprés [Cupressus] centroamericano. *Ceiba* 1:180-185. Oct.31,1950. 475 C32
- 10565 STANDLEY, P. C., and WILLIAMS, L. O. *Plantae centrali-americanae*. I. *Ceiba* 1:141-170. Oct. 31,1950. 475 C32  
New species in: *Piper*, *Rubus*, *Lonchocarpus*, *Stylosanthes*, *Acalypha*, *Croton*, *Euphorbia*, *Ilex*, *Maytenus*, *Serjania*, *Begonia*, *Calyptanthus*, *Clethra*, *Forestiera*, *Ipomoea*, *Bacopa*, *Aphelandra*, *Borreria*, *Hoffmannia*, and *Zexmenia*.
- 10566 STENZKE, K. *Scirpus silvaticus*, eine "gewässerbildende" pflanze der deutschen flora. Forsch. u. Fortschr. 26:47-48. Feb.1950. 474 F772
- 10567 SWALLEN, J. R. Some introduced forage grasses of the genus *Andropogon* and related species. Tex. Res. Found. Contrib. 1:15-19. 1950. 451 T312
- 10568 SWALLEN, J. R., and ROGLER, G. A. The status of crested wheatgrass. Agron. J. 42:571. Nov. 1950. 4 Am34P  
*Agropyron cristatum* and *A. desertorum*.
- 10569 TAKHTADZHIAN, A. L. Phylogenetic principles of systems of higher plants. (In Russian.) Bot. Zhur. 35:113-139. Ref. Mar./Apr.1950. 451 R923
- 10570 WALKER, A. Sur quelques plantes aquatiques du Gabon. Rev. Internatl. de Bot. Appl. d'Agr. Trop. 30: 439-440. July/Aug.1950. 26 R323
- 10571 WATERMAN, W. G. Habitats of *Cypripedium reginae* Walt. in north central Michigan. Amer. Orchid Soc. B. 19:588-594. Nov.1950. 80 Am329
- 10572 WHERRY, E. T. *Saxifraga* Plateau stonecrop: *Sedum pulchellum*. Amer. Rock Gard. Soc. B. 8:86. Sept./Oct.1950. 81 Am342
- 10573 WILLIAMS, L. O. New and noteworthy orchids from Mexico and Central America. *Ceiba* 1:185-190. Oct.31,1950. 475 C32  
Includes new species in: *Cranichis* and *Malaxis*.
- 10574 WIMMER, E. Two new varieties of *Centropogon* from Colombia. Wash. Acad. Sci. J. 40:354. Nov.15, 1950. 500 W276J
- 10575 ZIESENHENNE, R. *Begonia francistii* Zies. *Begonian* 17:219-220. Oct.1950. 96.511 B39

## Pteridophytes

- 10576 COPELAND, E. B. *Asplenaceae* and *Blechnaceae* of New Guinea. Philippine J. Sci. 78:207-229. June 1949. 475 P53  
Includes new species in *Asplenium*.
- 10577 LENOIR, J. L'équisétologie. Rev. Trimest. Canad. 36:247-259. Ref. Autumn 1950. 470 R32



- 10578 SHAVER, J. M. The hayscented fern [Dennstaedtia punctilobula] in Tennessee. Tenn. Acad. Sci. J. 25:288-292. (To be cont.) Oct. 1950. 500 T25A
- 10579 SHAVER, J. M. Tennessee ferns of the Wood-sia group. Tenn. Acad. Sci. J. 25:274-286. Ref. Oct. 1950. 500 T25A

### Bryophytes

- 10580 BARTRAM, E. B. Mosses collected by Dr. John Eriksson during the Swedish "Albatross" Expedition 1947-48. Göteborg. Bot. Trädgård. Meddel. (1948)18: 267-273. 1950. 451 G712
- 10581 FINLAYSON, M. K. Some aspects of the life history of the liverwort *Symphyogyna hymenophyllum* (Hook.) M. et N. Roy. Soc. New Zeal. Trans. & Proc. 78: 280-290. Ref. Aug. 1950. 514 W46
- 10582 LADYZHENSKAYA, K. L. Laboratory culture of Bryophyta. (In Russian.) Priroda 39(8):38-43. Aug. 1950. 410 P933
- 10583 LAVEN, L. *Plagiochila punctata* Tayl. Decheniana 104:101-102. 1950. 509 B64
- 10584 THYSSSEN, P. *Microlejeunea ulicina* (Taylor) Evans neu für die Rheinprovinz. Decheniana 104:99-100. 1950. 509 B64

### Algae

- 10585 ALEEM, A. A. Littoral diatoms from the eastern Mediterranean. Göteborg. Bot. Trädgård. Meddel. (1948)18:309-325. Ref. 1950. 451 G712
- 10586 ALEEM, A. A. Some Cyanophyceae from the eastern Mediterranean. Göteborg. Bot. Trädgård. Meddel. (1948)18:303-307. 1950. 451 G712
- 10587 ALEEM, A. A. Some new records of marine algae from the Mediterranean sea. Göteborg. Bot. Trädgård. Meddel. (1948)18:275-288. Ref. 1950. 451 G712
- 10588 BØRGENSEN, F. On the genus *Titanophora* (J. Ag.) Feldm. and description of a new species. Dansk Bot. Arkiv. 13(4), 8 p. 1949. 450 D23
- 10589 CLEVE-EULER, A. Littoral diatoms from Tristan da Cunha. Norwegian Sci. Exped. Tristan da Cunha 1937-1938. Results 18, 30 p. Ref. 1949. 409 N83
- 10590 HORN, H. Studies in the series pluricellulatae of *Nitella* with special reference to the American species. Göteborg. Bot. Trädgård. Meddel. (1948)18:199-212. 1950. 451 G712
- 10591 KING, J. W. Studies on algal epiphytes. Science 112:596-597. Ref. Nov. 17, 1950. 470 Sci2
- 10592 KUHN, H. Das netzplankton einiger seen im kanton Zürich von 1946-1950. Geobot. Forschinst. Rübel. Zürich. Ber. 1949:39-47. Ref. 1950. 451 Z83Be
- 10593 LUND, S. Marine algae new to the Danish waters. (In Danish.) Bot. Tidsskr. 48:231-253. Ref. 1949. 450 B654
- English summary.
- 10594 TAYLOR, W. R. Reproduction of *Dudresnaya crassa* Howe. Biol. B. 99:272-284. Ref. Oct. 1950. 442.8 B52
- 10595 WAWRIK, F. Neue algen aus den grundwasser-weltern bei Klenberg-Gaming, N.-Ö. Österr. Bot. Z. 96: 1-4. 1949. 450 Os7
- New species in: *Dinobryum* and *Spirotaenia*.
- 10596 WENNBERG, T. A couple of algae from the Swedish west coast. (In Swedish.) Göteborg. Bot. Trädgård. Meddel. (1948)18:289-292. 1950. 451 G712
- Himanthalia elongata* and *Codium fragile*.
- 10597 WENNBERG, T. The distribution of certain marine algae on the Norwegian west coast. Göteborg. Bot. Trädgård. Meddel. (1948)18:293-302. Ref. 1950. 451 G712
- 10598 WHITFORD, L. A. Some fresh-water algae from Mississippi. Castanea 15:117-123. Ref. Sept. 1950. 450 So82

### Fungi (Including Lichens)

- 10599 ABBAYES, H. DES., and MOTYKA, J. Lichens récoltés en Guinée française et en Côte d'Ivoire. Inst. Franç. d'Afrique Noire. B. 12:601-610. July 1950. 515 D14
- 10600 ALEEM, A. A. The occurrence of *Eurychasma dicksonii* (Wright) Magnus in England and Sweden. Göteborg. Bot. Trädgård. Meddel. (1948)18:239-245. 1950. 451 G712

- 10601 AMES, L. M. New species of cellulose decomposing fungi. II. Mycologia 42:642-645. Sept./Oct. 1950. 450 M99
- New species in *Chaetomium*.
- 10602 CENTRAALBUREAU VOOR SCHIMMELCULTURES, BAARN, HOLLAND. List of cultures, 1950. n.p., 1950. 144 p. 451 Am8
- 10603 DIGLIO, A. P. L. Los Mixomicetos. Cien. e Invest. 6:435-439. Ref. Oct. 1950. 475 C482
- 10604 EMERSON, R. Current trends of experimental research on the aquatic Phycomycetes. Annu. Rev. Microbiol. 4:169-200. Ref. 1950. 448.3 An72
- 10605 ENGEL, F. Pilzwanderungen; eine pilzkunde für jedermann. Dresden; Dresdener Verlagsgesellschaft, 1949. 82 p. 462.5 En3
- 10606 FREZZI, M. J. Las especies de "Phytophthora" en la Argentina. Argentina. Dir. Gen. de Invest. Agr. Rev. de Invest. Agr. 4:47-133. Ref. Jan. 1950. 9 R329
- 10607 HOU, D. A new species of *Ganoderma* from Taiwan. Taiwan Mus. Q. J. 3:101-104. June 1950. 513 T133
- 10608 JANKE, A. Zur frage der bakterien-systematik. Österr. Bot. Z. 96:25-55. Ref. 1949. 450 Os7
- 10609 JOHANSEN, G. The Danish species of the *Discomycet* genus *Pezizula*. Dansk Bot. Arkiv. 13(3), 26 p. Ref. 1949. 450 D23
- 10610 LING, L. Studies in the genus *Contractia*. II. *C. axicola* and related species. Mycologia 42:644-653. Sept./Oct. 1950. 450 M99
- 10611 MAGNUSSON, A. H. Lichens from Uruguay. Göteborg. Bot. Trädgård. Meddel. (1948)18:213-237. 1950. 451 G712
- Includes new species in: *Sphinctrina*, *Pertusaria*, *Le-canora*, *Caloplaca*, *Buellia*, and *Diploschistes*.
- 10612 MIX, A. J., and MCGREGOR, R. L. Notes on Kansas fungi, 1949. Kans. Acad. Sci. Trans. 53:340-343. Sept. 1950. 500 K13T
- 10613 MULLER, A. S., and CHUPP, C. *Cercospora* in Guatemala. Ceiba 1:171-178. Oct. 31, 1950. 475 C32
- 10614 ROCKWOOD, L. P. Entomogenous fungi of the family Entomophthoraceae in the Pacific Northwest. J. Econ. Ent. 43:704-707. Oct. 1950. 421 J822
- 10615 SANDSTEDE, H. Bemerkungen zu meinen "Flechten des nordwestdeutschen tieflandes und der deutschen nordseeinseln." Mus. f. Nat.- u. Handelsk. Veröffentlich. Reihe A 1:5-40. 1949. 509 B752
- 10616 SAVILE, D. B. O. A new rust [*Puccinia connersii*] on *Deschampsia*. Mycologia 42:663-667. Sept./Oct. 1950. 450 M99
- 10617 STEVENSON, J. A., and ROGERS, D. P. Mycological nomenclature at the 7th International Botanical Congress. Plant Dis. Rptr. 34:327-333. Nov. 15, 1950. 1.9 P69P
- 10618 ZIEGLER, A. W. A new *Achlya* from Florida. Mycologia 42:658-662. Sept./Oct. 1950. 450 M99

### PATHOLOGY

#### General

- 10619 ATKINSON, J. D., and others. Tomato diseases and pests in New Zealand and their control. New Zeal. Dept. Sci. & Indus. Res. Inform. Ser. 2, 112 p. 1949. 464.9 N48
- R. M. Brien, E. E. Chamberlain, W. Cottler, H. Jacks, W. D. Reid, and G. G. Taylor, joint authors.
- 10620 BECKER, H. Untersuchungen über das mikro klima einiger blattgallen. Anz. f. Schädlingsk. 23:129-131. Sept. 1950. 421 An9
- 10621 BERAN, F. Die vegetationsperiode geht zu ende, der kampf gegen obstbaumschädlinge beginnt. Pflanzenarzt 3(10):1-3. Oct. 1, 1950. 464.9 P482
- 10622 BLAIR, I. D., and MORRISON, L. Wheat diseases and insect pests. New Zeal. Dept. Sci. & Indus. Res. Inform. Ser. 3, 59 p. Ref. 1949. 464.9 N48
- 10623 BLOM, A. Attention fruit growers. (In Dutch.) Betuws Tuinbouwl. 8(13):2. Sept. 2, 1950. 80 R464
- Diseases and pests of fruit.
- 10624 BOYD, O. C. Some noteworthy diseases of vegetable crops in Massachusetts this year. Plant Dis. Rptr. 34:339-340. Nov. 15, 1950. 1.9 P69P



- 10625 BRAUN, H. Die aufgaben der forschung bei der bekämpfung von krankheiten und schädlingen. Kartoffelbau 1:14-15. June 1950. 75.8 K145
- 10626 CANADA DEPT. OF AGRICULTURE. SCIENCE SERV. DIV. OF BOTANY AND PLANT PATHOLOGY. Twenty-ninth annual report of the Canadian plant disease survey, 1949, compiled by I. L. Connors and D. B. O. Savile. Ottawa, 1950. 114 p. 464.9 C16S
- 10627 CHARNAY, P. Sécheresse, brunissage. Révell Agr. 59:324-325. Nov. 1, 1950. 14 R322
- Grapes.
- 10628 CHEREWICK, W. J. Barley diseases, Manitoba, in 1949. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:17. 1949. 59.9 C169
- 10629 DADANT, R. Premier principe de lutte contre les maladies de la pomme de terre. Rev. Agr. de la Nouvelle-Calédonie (n.s.)1(5/6):7-8. May/June 1950. 25 R322
- 10630 DARPOUX, H., and FAIVRE-AMIOT, A. Recherches sur les antagonismes microbiens et sur les substances antibiotiques; essais d'application dans la lutte contre les maladies des plantes. Rev. de Path. Veg. et d'Ent. Agr. de France 29:102-114. Ref. Jan./June 1950. 464.9 S01
- 10631 DAVIS, S. H. A recap of a few New Jersey tree problems in 1950. Shade Tree 23(8):1-3. Aug. 1950. 99.8 Sh1
- Diseases.
- 10632 DECKEN, J. G. VON DER. Sind die krähen schädlich? Deut. Landwirt. Presse 73(19):7. Sept. 9, 1950. 18 D482
- 10633 EADIE, W. R. New techniques in control of orchard mice. N. Y. (Cornell) Agr. Expt. Sta. B. 856, 16 p. Aug. 1950. 100 N48C
- 10634 EMERSON, F. H. Diseases of currants in New York State and their control. Farm Res. [N. Y. State Sta.] 16(4):15. Oct. 1950. 100 N48A
- 10635 FABER, W. Wann bekämpfen wir am besten die feldmäuse? Pflanzenarzt 3(10):3-4. Oct. 1, 1950. 464.9 P482
- 10636 FEENSTRA, P. Winter spraying. I. (In Dutch.) Volkstuin 33:102. Sept. 1950. 80 V88
- Fruit trees.
- 10637 FERGUSON, W. Vegetable research and problems. West. Canad. Soc. Hort. Rpt. Proc. 6:21-26. 1950. 82 W522
- Includes diseases.
- 10638 FLOR, H. H. The flax disease situation in the Northern States. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:84-88. 1949. 59.9 C169
- 10639 FOISTER, C. E. International aspects of plant quarantine. Scot. Agr. 30:111-114. Autumn 1950. 10 Sco82So
- 10640 FRIGERIO, J. C. Parásitos que atacan al zapallo. Pampa Argentina 23(274):6. Sept. 1950. 9 P19
- Diseases and pests.
- 10641 FRY, H. S. Science for spuds; an outline of Canada's national potato breeding program designed to create new varieties resistant to serious potato diseases. Country Guide 69(10):8,48-49. Oct. 1950. 7 G76
- 10642 GABOTTO, L. Difficult international agreements for the protection of cultivated plants. (In Italian.) Colt. e Gior. Vinc. Ital. 96:265-266. Oct. 15, 1950. 16 C72
- Plant disease control.
- 10643 GATES, C. M., and SOULE, M. J., JR. A survey of diseases lethal to Tahiti (Persian) limes in Dade County, Florida. (Sum.) Plant Dis. Rptr. 34:397-399. Dec. 15, 1950. 1.9 P69P
- 10644 GEIT, P. VAN. Guérissons nos plantes! Au verger. B. Hort. (n.s.):5:238-240. Aug. 1, 1950. 80 B872
- 10645 GIGANTE, R. Preliminary studies on non-parasitic silverleaf of peaches in Ravenna Province during 1949 and 1950. (In Italian.) Riv. di Fruttic. 12:183-196. Ref. Oct. 1950. 80 R52
- English summary.
- 10646 GIGGARD, E., COX, C. E., and KRAMER, A. Effect of spray schedule on tomato product quality. Food Packer 31(13):46-48. Dec. 1950. 286.83 C165
- Spraying for disease control.
- 10647 GILPATRICK, J. D., and BUSCH, L. V. Pea diseases in southwestern Ontario in 1949 and 1950. Plant Dis. Rptr. 34:340. Nov. 15, 1950. 1.9 P69P
- 10648 GLASS, E. H. Parathion injury to apples. Farm Res. [N. Y. State Sta.] 16(4):6. Oct. 1950. 100 N48A
- 10649 GOHEEN, A. C. Cranberry field rots. Amer. Cranberry Growers' Assoc. Proc. Annu. Conv. 81:14-17. 1950. 81 Am35C
- 10650 HANSING, E. D., and others. Kansas phytopathological notes: 1949. Kans. Acad. Sci. Trans. 53:344-354. Sept. 1950. 500 K13T
- L. E. Melchers, H. Fellows, and C. O. Johnston, joint authors.
- 10651 HASSEBRAUK, K., and LANGENBUCH, R. Krankheiten und schädlinge des spargels. Biol. Bundesanst. Braunschweig. Flugbl. H 6, 12 p. July 1950.
- 10652 HENRY, A. W. Situation regarding barley diseases in Alberta. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:20-22. 1949. 59.9 C169
- 10653 HEPTING, G. H., and JEMISON, G. M. A cure for littleleaf disease? Soil rehabilitation may offer a permanent solution for controlling littleleaf, worst forest plague of the South since the chestnut blight. Amer. Forests 56(11):20-22, 30. Nov. 1950. 99.8 F762
- 10654 HOWATT, J. L. Potato disease control in the Maritime Provinces. Canad. Seed Growers' Assoc. Annu. Rpt. 1949/50:32-36. 1950. 61.9 C16
- 10655 HUGHES, C. G. Testing sugar cane varieties for resistance to disease. Queensland Bur. Sugar Expt. Stas. Cane Growers' Q. B. 14:16-19. July 1, 1950. 65.9 Q3C
- 10656 HUNTER, A. W. S., and WHITE, F. H. Breeding for disease-resistance in Canada. III. Horticultural crops and tobacco. Empire J. Expt. Agr. 18:218-228. Ref. July 1950. 10 Em7
- 10657 INGELSTRÖM, E. Växtdoktorn; handledning i kampen mot trädgårdens sjukdomar och skadedjur [The plant doctor; guide in the fight against garden diseases and pests]. Ed. 3., rev. Stockholm, Saxon & Lindström, 1950. 254 p. 464.4 In4
- 10658 KATARKI, H. V., and KULKARNY, H. L. Control of field rats and bandicoots. Poona Agr. Col. Mag. 41:49-51. June 1950. 23 P79
- In the protection of field crops.
- 10659 KERSTING. Die wichtigsten knollenfäulen der kartoffeln. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1413. Oct. 12, 1950. 18 L2346
- 10660 KIENZLE, R. A. The nature of plant diseases. Atlantic Co. Vocat. B. 25, i.e. 30:1-2. Oct. 1950. 6 At62
- 10661 KOCH, L. W., and BERKELEY, G. H. Diseases of tobacco in Canada. Canada Dept. Agr. Farmers' B. 85, rev., 38 p. Oct. 1950. 7 C16F
- 10662 KORTEN. Die wühlmausbekämpfung in der baumschule. Deut. Baumsch. 2:183-185. Aug. 1, 1950. 80 D486
- 10663 LANGE, P. Überbrückung von wunden bei obstbäumen. Gartenjahr 5:101-102. July 1950. 80 G1932
- 10664 LAVALLEE, P. Le caroubier, ses maladies et leur traitement. Colon Franc. de Tunisie 60(2170):1, 4. (Concl.) Nov. 4, 1950. 24 C712
- 10665 LOTT, T. B. Some further observations on small bitter cherry. Sci. Agr. 30:444-446. Oct. 1950. 7 Sci2
- 10666 MCCLELLAN, W. D., and STUART, N. W. Effect of nitrogen fertilizer on severity of glad diseases Florists Exch. 115(24):18, 62. Dec. 9, 1950. 80 F666
- 10667 MCNEW, G. L., MCCALLAN, S. E. A., and MILLER, P. R. The control of fruit & vegetable diseases; a survey of the severity of fruit & vegetable diseases in the United States and the chemicals recommended for their control. I-III. Canning Trade 73(20):7-10; (21):6-8; (22):13-14, 16, 23-24. Dec. 4-18, 1950. 286.83 T67
- 10668 MARTIN, J. P. Effect of soil fungi on germination of sweet orange seeds and development of the young seedlings. Soil Sci. Soc. Amer. Proc. 1949(14):184-188. Ref. 1950. 56.9 So3
- 10669 MIDDLETON, J. T., KENDRICK, J. B., JR., and SCHWALM, H. W. Smog in the south coastal area; injury to herbaceous plants in the affected area found to be result of air pollution by gases and aerosols. Calif. Agr. [Calif. Sta.] 4(11):7-10. Nov. 1950. 100 C12Cag
- 10670 MILLER, P. R., and O'BRIEN, M. The plant disease warning service in 1950. Plant Dis. Rptr. Sup. 197:559-572. Nov. 15, 1950. 1.9 P69P
- 10671 MONASTERO, S. Défense des plantes et du produit. (In Italian.) Cong. Internat. de l'Agrumicult. Méditer. Actes 1:23-35. Dec. 1949. 93.33 C762
- French summary.



- 10672 MONCEAU, G. Traitements et économie. Révell Agr. 59:308. Oct.15,1950. 14 R322  
Fruit.
- 10673 MOSEMAN, J. G., and HEBERT, T. T. Small grain diseases in North Carolina in 1949-50. Plant Dis. Rptr. 34:392-394. Dec.15,1950. 1.9 P69P
- 10674 MOSTERT, T. Use and treatment of seed potatoes. Farming So. Africa 25:302. Sept.1950. 24 So842
- 10675 NEWMAN, L. H. Plant galls and their causes. Nat. Lover 7:379-382. Sept.1950. 410 N218
- 10676 NOORDAM, D. Some diseases of carnations. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:703-716. Ref. Aug./Sept.1950. 86 N384  
English summary.
- 10677 OORT, A. J. P. Enige aspecten van de phytopathologie [Some aspects of phytopathology]. Wageningen, Veenman & Zonen, 1949. 19 p. 464 Oo8
- 10678 PARRIS, G. K. Control of mice in watermelon fields. Fla. Agr. Expt. Sta. C. S-17,4 p. July 1950. 00 F66C1
- 10679 PASINETTI, L. Les maladies des plantes et des fruits des agrumes et méthodes de défense. (In Italian.) Cong. Internatl. de l'Agrumicult. Méditer. Actes 1:37-59. Dec.1949. 93.33 C762  
French summary.
- 10680 PATRONE, I. M. Tratamientos sanitarios en viticultura. Uruguay. Dir. de Agron. P. 101.16 p. 1950. 9.9 Ur84
- 10681 PFEIFER, S. Die landwirtschaftliche Bedeutung der saatkraute. Anz. f. Schädlingsk. 23:132-135. Sept. 1950. 421 An9
- 10682 PONT, A. Les bouillies pour atomiseurs. Terre d'Oc 32:405-408. Sept.1950. 14 Ar5
- 10683 LES PRINCIPAUX ennemis de la chicorée witloof. Rev. de l'Agr. 3:832-842. Aug.1950. 13 R322  
English summary.  
Diseases and pests.
- 10684 RAMSFJELL, T. Diseases of Begonia. (In Norwegian.) Gartneryrket 40:699-702. Oct.7,1950. 80 G1938
- 10685 RAMSFJELL, T. Diseases of garden carnations. (In Norwegian.) Gartneryrket 40:667-670. Sept. 23,1950. 80 G1938
- 10686 ROANE, C. W. Observations on corn diseases in Virginia from 1947 to 1950. Plant Dis. Rptr. 34:394-396. Dec.15,1950. 1.9 P69P
- 10687 ROMANOV, A. A. On injuries to trunks of trees in the shelterbelt plantations. (In Russian.) Priroda 39(5):52-54. May 1950. 410 P933  
Caused by accumulation of snow and its slow melting in the spring.
- 10688 ROSELLA, E. Le court-noué sur les vignes mal alimentées. Révell Agr. 59:275-276. Sept.15,1950. 14 R322
- 10689 RUDORF, W. Methods and results of breeding resistant strains of potatoes. IV. Amer. Potato J. 27:332-339. Ref. Sept.1950. 75.8 P842
- 10690 RUI, D. Summary of the Florence Plant Pathology Congress. (In Italian.) Informatore Agr. 6(20):4. Nov.1,1950. 281.8 In32
- 10691 RUSSELL, R. C. Situation regarding diseases of barley in the Province of Saskatchewan. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:18-19. 1949. 59.9 C169
- 10692 SACKSTON, W. E. The flax disease situation in western Canada. Canada. Nat. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:89-91. 1949. 59.9 C169
- 10693 SALAS, C. A. Necesitamos organizar la sanidad de los cultivos para asegurar nuestra producción. Res 18:25165-25166. Sept.5,1950. 286.85 R31
- 10694 SCARAMUZZI, G. Some light on "concentric spotting" of tobacco leaves. (In Italian.) Tabacco 54: 252-259. Ref. Aug.1950. 69.8 T115
- 10695 SCHAEFER, E. E. Plant diseases and fungicides. Farming So. Africa 25:254. Aug.1950. 20 So842
- 10696 SCHENK, P. J. Some currant diseases. (In Dutch.) Groenten en Fruit 6:207. Sept.21,1950. 80 G89
- 10697 SCHENK, P. J. Storm and the trees. (In Flemish.) Cult. en Handel 16:600-603. Oct.1950. 80 C892  
Injuries.
- 10698 SHEALS, J. G. Observations on blindness in oats. Ann. Appl. Biol. 37:397-406. Ref. Sept.1950. 442.8 An72  
Includes investigation of injury by thrips and Oscinella frit.
- 10699 SIMMONS, P., FISHER, C. K., and WARNER, R. M. Experiments in fig spoilage control. Calif. Fig Inst. Proc. Annu. Res. Conf. 3:3-4. 1949. 93.44 C122P  
Spraying the trees.
- 10700 STEVENS, N. E., ELLIS, H. R., and STEVENS, R. B. Wasting and recovery of Zosteria marina on the Atlantic Coast of the United States. Plant Dis. Rptr. 34: 357-362. Ref. Dec.15,1950. 1.9 P69P
- 10701 STRONG, F. C. Leaf diseases of some shade trees. Trees 10(6):10,16-18. Sept./Oct.1950. 99.8 W52
- 10702 THOMAS, C. A. Notes on diseases of some special crops in 1950. Plant Dis. Rptr. 34:391-392. Dec.15,1950. 1.9 P69P  
Safflower, castorbeans, mint, and sesame.
- 10703 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine officials of the States, Territories, District of Columbia, Canada, and Mexico. Washington, 1950. 4 p. 1.987 D2P692
- 10704 VERBRUGGEN, A. Some important celery diseases and their control. (In Flemish.) Cult. en Handel 16:484-485. Aug.1950. 80 C892
- 10705 VERMA, G. S. Tip pulp of the mango fruit. Cur. Sci. 19:246. Aug.1950. 475 Sci23
- 10706 WALKER, J. C. Plant pathology. Ed. 1. New York, McGraw-Hill, 1950. 699 p. Ref. (McGraw-Hill P. Agr. Sci.) 464 W15
- 10707 WEINDLING, R., KATZNELSON, H., and BEALE, H. P. Antibiosis in relation to plant diseases. Annu. Rev. Microbiol. 4:247-260. Ref. 1950. 448.3 An72
- 10708 WENZL, H. Untersuchungen über die absterbeerscheinungen an marille (Prunus armeniaca). Pflanzenschutzberichte 4:187-200. Ref. June 1950. 464.9 P48  
English summary.
- 10709 WENZL, H. Weitere untersuchungen über die sternfleckenkrankheit der marille (Prunus armeniaca). Pflanzenschutzberichte 4:180-186. June 1950. 464.9 P48  
English summary.
- 10710 WESTON, W. A. R. D. Diseases of cereals: seed- and air-borne. Inst. Corn & Agr. Merchants. J. 2: 152-157. Autumn 1950. 10 In7  
Includes discussion.
- 10711 WESTON, W. A. R. D. Diseases of corn crops in 1951. Kent Farmers' J. 68:156. Sept.1950. 10 K41  
Also in Essex Farmers' J. 29(7):23-24. Sept.1950. 10 Es72

#### Diseases Caused by Fungi

- 10712 ABRAHAMSON, P. E. R. Stem rust. Gleaner 4(9):5. Sept.1950. 6 G472
- 10713 ALEEM, A. A. Phycomycètes marins parasites de Diatomées et d'Algues. Paris. Acad. des Sci. Compt. Rend. 231:713-715. Oct.9,1950. 505 P21
- 10714 ANKUDINOV, A. M. Causes for damping-off of seedlings in forest nurseries and measures for their control. (In Russian.) Lesn. Khoz. 3(5):26-30. May 1950. 99.8 L562  
Fusarium and Alternaria.
- 10715 ARSEN'EVA, M. V. Phoma lingam on root crops and cabbage. (In Russian.) Sad i Ogorod 1950(8): 24-25. Aug.1950. 80 Sa13
- 10716 BAKER, K. F., DIMOCK, A. W., and DAVIS, L. H. Ramularia cyclaminicola Trel., the cause of Cyclamen stunt disease. Phytopathology 40:1027-1034. Ref. Nov.1950. 464.8 P56
- 10717 BAKER, K. F., and DAVIS, L. H. Some diseases of ornamental plants in California caused by species of Alternaria and Stemphylium. Plant Dis. Rptr. 34:403-413. Ref. Dec.15,1950. 1.9 P69P
- 10718 BALDACCI, E., and MALFATTO, P. Control of downy mildew. (In Italian.) Colt. e Gior. Vint. Ital. 96:204-205. July 31,1950. 16 C72  
Grapes.
- 10719 BALDWIN, M. M. Sulfur in fungicides. Indus. & Engin. Chem. 42:2227-2230. Ref. Nov.1950. 381 J825
- 10720 BENNETT, R. R., and NUSBAUM, C. J. Black-shank and Granville wilt-resistant varieties. Prog. Farmer, Carolinas-Va. Ed. 65(11):26,142. Nov.1950. 6 P945  
Tobacco.



- 10721 BLUMER, S., and KUNDERT, J. Methoden der biologischen laborprüfung von kupferpräparaten. *Phytopath. Z.* 17:161-199. Ref. Sept.1950. 464.8 P562 English summary.
- 10722 BOER, W. DEN. Powdery mildew [*Uncinula necator*] on grapes. (In Dutch.) *Groenten en Fruit* 6: 99. Aug.17,1950. 80 G89
- 10723 BRENTZEL, W. E. Stem rust [*Puccinia graminis*] on wheat in North Dakota. *Plant Dis. Rptr.* 34:340-341. Nov.15,1950. 1.9 P69P
- 10724 BURCHFIELD, H. P., and MCNEW, G. L. Mechanism of particle size effects of fungicides on plant protection. Boyce Thompson Inst. Contrib. 16:131-161. Ref. July/Sept.1950. 451 B69
- 10725 CALLBECK, L. C. Further studies on copper sulphate-lime ratios in Bordeaux mixture. *Amer. Potato J.* 27:327-331. Ref. Sept.1950. 75.8 P842
- 10726 CHEREWICK, W. J., and POPP, W. A modification of Moore's method of inoculating wheat and barley with loose smut. *Phytopathology* 40:1054-1056. Nov.1950. 464.8 P56
- 10727 CHEVAUGEON, J. Maladies cryptogamiques du manioc en Côte d'Ivoire. I. *Rev. de Path. Veg. et d'Ent. Agr. de France* 29:3-9. Ref. Jan./June 1950. 464.9 Sol
- 10728 COLE, J. R. Articularia on pecan in Texas. *Plant Dis. Rptr.* 34:414. Dec.15,1950. 1.9 P69P
- 10729 COLE, J. R. Bordeaux mixture alone or Bordeaux mixture followed by ziram may be used to control pecan scab [*Cladosporium effusum*]. *Soeast. Pecan Growers Assoc. Proc.* 43:8-12,14. 1950. 94.69 G29
- 10730 CRONSHEY, J. F. H. The treatment of seed with chemical seed dressings. *Plant Protect. Overseas Rev.* 1(4):17-20. Sept.1950. 464.8 P69
- 10731 CUMMINS, G. B., and LING, L. An index of the plant rusts recorded for continental China and Manchuria. *Plant Dis. Rptr. Sup.* 196:520-556. Nov.15,1950. 1.9 P69P
- 10732 CUNNINGHAM, G. H. Certification of therapeutants. *Orchardist New Zeal.* 23(7,sup.),2 p. Aug.7, 1950. 80 Or19
- 10733 A DE JONG, P. Report on the preliminary experiments on the control of blister blight on tea in bearing. *Planters' Chron.* 45:478-483. Sept.15,1950. 22 P693
- 10734 DIMOND, A. E. Internal medicine for ailing plants. *Crops & Soils* 3(2):16-17,29. Nov.1950. 6 W55
- 10735 DREES, H. Ist die krautfläuselspritzung der kartoffeln rentabel? *Kartoffelbau* 1:33-34. July 1950. 75.8 K145
- 10736 DUBROVA, G. B. Effect of garlic phytoncides on molds. (In Russian.) *Mikrobiologiya* 19:229-234. May/June 1950. 448.3 M582
- 10737 ELEFThERIOU, V. Stem rust of cereals. *Countryman [Nicosia]* 4(9):10-11. Sept.1950. 25 C83
- 10738 ELLIS, D. E. *Ascochyta* blight of okra in western North Carolina. *Phytopathology* 40:1056-1058. Nov.1950. 464.8 P56
- 10739 FAHMY, T. Quelques observations sur l'oïdium de la vigne en Egypte. *Feuilles Agr.* 8:49-53. Jan./Mar.1950. 24 F43
- 10740 FISCHER, W. Analyse von pflanzenschutzmitteln. III. Dinitro-rhodan-benzol, dinitro-trichlor-benzol, trinitro-trichlor-benzol und tetranitro-carbazol. *Z. f. Analyt. Chem.* 131:192-198. 1950. 384 Z3 Insecticides and fungicides.
- 10741 FONT, R. Le traitement des semences. *Colon Franç. de Tunisie* 60(2167):3. Oct.14,1950. 24 C712 Grain.
- 10742 GARRETT, S. D. Take-all laughs at leaflets. *Farmers Wk. [London]* 33(21):51,53. Nov.24,1950. 10 F2226 Control of take-all of barley and wheat.
- 10743 GATTANI, M. L. Induced lysis in the germination of the uredospores of the wheat rusts. *Cur. Sci.* 19: 217-218. July 1950. 475 Sci23
- 10744 GAYFORD, G. W. Control fungous diseases in the spring. *Victoria. Dept. Agr. J.* 48:367-369. Aug. 1950. 23 V667 Fruit tree diseases.
- 10745 GILPATRICK, J. D., and BUSCH, L. V. Studies on the pathogenicity of different isolates of *Ascochyta blight* Lf. *Plant Dis. Rptr.* 34:383-387. Dec.15,1950. 1.9 P69P
- 10746 GODFREY, G. H. Powdery mildew control. *Seed World* 67(8):41. Oct.20,1950. 61.8 Se52 On cantaloups.
- 10747 GOIDANICH, G., and TOGLIANI, F. Silver leaf disease [*Stereum purpureum*] of peaches. (In Italian.) *Glor. di Agr.* 60:301. Sept.24,1950. 16 It1G
- 10748 GOKHALE, V. P. A new biotype of race 15 of *Puccinia graminis tritici*. *Cur. Sci.* 19:214-215. July 1950. 475 Sci23
- 10749 HAFIZ, A. Apple and pear scab. *Punjab Fruit J.* 14(47):29-32. Jan.1950. 80 P862
- 10750 HALLEMANS, A. Again the fruit tree canker [*Nectria galligena*] in our orchard. (In Flemish.) *Cult. en Handel* 16:810-812. Oct.1950. 80 C892
- 10751 HANSBROUGH, J. R. Oak wilt (*Chalara quercina* Henry). *Tree Pest L.* 55,4 p. June 1950. 423.9 M38
- 10752 HASSEBRAUK, K. Die getreideroste. *Biol. Bundesanst. Braunschweig. Flugbl.* D 5,5 p. June 1950. 464.9 B833
- 10753 HIMMELFREUNDPOINTNER, K. Die schorffkrankheit der obstbäume. *Pflug* 3:168-169. Aug.1950. 19 P48 Fusicladium.
- 10754 HOFFERBERT, W. Das einmaleins gegen kraut- und knollenfäule. *Kartoffelbau* 1:35. July 1950. 75.8 K145
- 10755 HOOKER, W. J., and KENT, G. C. Sulfur and certain soil amendments for potato scab control in the peat soils of northern Iowa. *Amer. Potato J.* 27:343-365. Ref. Oct.1950. 75.8 P842
- 10756 HUGHES, C. G. Downy mildew disease in North Queensland. *Queensland Bur. Sugar Expt. Stas. Cane Growers' Q. B.* 14:39-44. July 1,1950. 85.9 Q3C
- 10757 HURFORD, A. W. Our Dutch elm disease control program. *Conn. Woodlands* 15:38-39. Sept.1950. 99.8 C76
- 10758 IBRAGIMOV, G. R. New disease of red pepper and measures for its control. (In Russian.) *Sad i Ogorod* 1950(8):26. Aug.1950. 80 Sa13 Colletotrichum multisetosum.
- 10759 JENKINS, A. E., and JEHLE, R. A. Sphaceloma viburni destructive to snowball [*Viburnum opulus roseum*] in Maryland. *Plant Dis. Rptr.* 34:350-351. Nov. 15,1950. 1.9 P69P
- 10760 JONES, F. R. Susceptibility of alfalfa plants to *Colletotrichum trifolii*. *Plant Dis. Rptr.* 34:344. Nov. 15,1950. 1.9 P69P
- 10761 KATWIJK, W. VAN. Canker of fruit trees. (In Dutch.) *Boer en Tuinder* 4(196):5. Oct.21,1950. 12 B632
- 10762 KATWIJK, W. VAN. Control of silver leaf disease requires attention. (In Dutch.) *Boer en Tuinder* 4(194):4. Oct.7,1950. 12 B632 *Stereum purpureum* on fruit and other crops.
- 10763 KERSTING. Kohlhernie—im feld überall verbreitet. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A: 1343-1344. Sept.28,1950. 18 L2346
- 10764 KLECZKOWSKA, J. A study of phage-resistant mutants of *Rhizobium trifolii*. *J. Gen. Microbiol.* 4: 298-310. Ref. Sept.1950. 448.3 J823
- 10765 KLOTZ, L. J. Brown rot gummosis [*Phytophthora*] of citrus. *Calif. Citrog.* 36:48,67-68. Dec.1950. 80 C125
- 10766 KLOTZ, L. J. Report on mal secco disease. *Calif. Citrog.* 36:74-75. Dec.1950. 80 C125 Sicily.
- 10767 KOZLOVA, V. I. Gray mold of kok-saghyz heads and conditions for its development. (In Russian.) *Mikrobiologiya* 19:246-255. Ref. May/June 1950. 448.3 M582 Botrytis cinerea.
- 10768 KUCHLY, J. Warum saatgutbeize? *Bas-Rhin Agr.* 5:504. Oct.14,1950. 14 B29
- 10769 LACY, R. C. Tuberculina sp. parasitic on *Puccinia butleri*. *Cur. Sci.* 19:247. Aug.1950. 475 Sci23
- 10770 LARGE, J. R., and PHILLIPS, A. M. Spray experiments for control of pecan scab [*Cladosporium effusum*] in Florida in 1949. *Soeast. Pecan Growers Assoc. Proc.* 43:14-16,18-26. 1950. 94.69 G29
- 10771 LESSER, M. A. Mildew products. *Soap & Sanit. Chem.* 26(10):110-113,139,141. Ref. Oct.1950. 307.8 So12 Fungicides.



- 10772 LEUKEL, R. W. Tests of seed treatments on Sorghum seed in 1950. *Plant Dis. Rptr.* 34:342-343. Nov.15,1950. 1.9 P69P
- 10773 LYLE, J. A. Description of two important oat diseases in Alabama. *Ala. Agr. Expt. Sta. Prog. Rpt. Ser. 11(sup.)*, 2 p. Sept.1950. 100 AL1M  
Crown rust and Helminthosporium blight.
- 10774 LYON, A. V. Dormant sprays. *Austral. Dried Fruits News* 25(10):12. July 1950. 286.83 Au72  
For fungus and pest control.
- 10775 LYON, A. V. Organism of black spot. *Austral. Dried Fruits News* 25(11):10. Sept.1950. 286.83 Au72  
Anthracnose of grapes.
- 10776 MACLEAN, N. A., and BAKER, K. F. Powdery mildew on outdoor snapdragons in California. *Plant Dis. Rptr.* 34:346. Nov.15,1950. 1.9 P69P
- 10777 MACLEAN, N. A. Septoria leaf spot; control of disease on Esther Read daisies [Chrysanthemum morifolium] in California. *Florists' Rev.* 107(2765):35. Nov. 23,1950. 80 W41
- 10778 MCNEW, G. L., and BURCHFIELD, H. P. Particle size in relation to the fungitoxicity of dichloronaphthoquinone. *Boyce Thompson Inst. Contrib.* 18:163-175. Ref. July/Sept.1950. 451 B69
- 10779 MAHMUD, K. A. Cercospora leaf-spot on Schrebera swietenoides Roxb. *Cur. Sci.* 19:292-293. Sept.1950. 475 Sci23  
*C. schreberae*, n. sp.
- 10780 MAZZEI PATRONE, I. Peronospora de la vid. Uruguay. *Min. de Ganad. y Agr. B. Inform.* 341:11. Oct.5, 1950. 9.9 G15B
- 10781 MILBRATH, D. G. Camellia flower rot [Sclerotinia camelliae] control. In Southern California Camellia Society. Horticultural Research Committee. Camellia research, p.72-73. Pasadena, 1950. 97.31 So822
- 10782 MILISSAVLJEVITCH, D. Recherches sur la durée de la période d'incubation du Plasmodium viticola (B et C) Berlese et De Toni. (In Croatian.) Yugoslavia. *Min. Poljoprivrede. Radovi Poljoprivrednih Naučno-Istraživačkih Ustanova* 1:175-198. Ref. 1949. 21.5 Y93  
French summary.
- 10783 MILLER, P. R. Fungicide test results made known. *Agr. Chem.* 5(11):57,59,79,81. Nov.1950. 381 Ag8
- 10784 MOOI, J. C. Fusarium rot or dry rot of potatoes. (In Dutch.) *Landbk. Tijdschr.* 62:712-724. Sept.1950. 105.2 Or3
- 10785 MORERA, V. Elaboración de compuestos fungicidas y bactericidas utilizando desechos vegetales. *Indus. y Quím.* 12:116-120,137. Ref. June 1950. 385 In28  
Chiefly furfural.
- 10786 NIKLAS, O. Lohnt sich die bekämpfung der kartoffelkrautfäule? *Kartoffelbau* 1:34. July 1950. 75.8 K145
- 10787 PETRUSHOVA, N. I. measures for the control of Fusarium on planting stock [in fruit] nurseries. (In Russian.) *Sad i Ogorod* 1950(8):76-77. Aug.1950. 80 Sa13
- 10788 POCHON, J., and others. Etude sérologique des Rhizobium application au problème de la "compétition" entre souches. *Inst. Pasteur Ann.* 79:757-762. Nov.1950. 448.3 An75  
P. Manil, Y. T. Tchan, C. Bonnier, and M. A. Chalvignac, joint authors.
- 10789 RAMAKRISHNAN, T. S., and SRINIVASAN, K. V. Two grass smuts. *Cur.Sci.* 19:216-217. July 1950. 475 Sci23  
*Entyloma dactylidis* on *Dactylis glomerata* and *Ustilago tritici* on *Tragus biflorus*.
- 10790 RAMSEY, G. B., and SMITH, M. A. Ceratostomella paradoxa Dade on banana. *Plant Dis. Rptr.* 34:396-397. Dec.15,1950. 1.9 P69P
- 10791 RANKIN, W. H. Dutch elm disease. *Trees* 10(6):11,20. Sept./Oct.1950. 99.8 W52
- 10792 RAPIN, J. Contrôle des produits destinés à la lutte contre la carie du froment (*Tilletia tritici*). *Rev. Romande d'Agr., de Vitic. et d'Arbor.* 6:65-66. Sept. 1950. 17 J82A
- 10793 ROTH, E. R. Cankers and decay of oak associated with *Irpex mollis*. *Plant Dis. Rptr.* 34:347-348. Nov.15,1950. 1.9 P69P
- 10794 RUGGERI, G. Défense et reconstitution des plantations d'agrumes frappées par le mal sec [*Deuterophoma tracheiphila*] - expérimentation dans l'agrumiculture. (In Italian.) *Cong. Internatl. de l'Agrumicult. Méditer.* Actes 1:69-83. Dec.1949. 93.33 C762  
French summary.
- 10795 SCHENK, P. J. Gardener, take notice of the silver leaf [*Stereum purpureum*] disease. (In Dutch.) *Vakbl. v. de Bloemisterij* 5:318-319. Sept.29,1950. 80 V22  
On fruit.
- 10796 SCHULTZ, H. Untersuchungen über die rolle von *Pythium*-arten als erregers der fuskrankheit der lupine II. *Phytopath. Z.* 17:200-214. Ref. Sept.1950. 464.8 P562
- 10797 SCHULZE, B. Untersuchungen über die virulenz der für die prüfung der pilzwidrigen wirkung nach dem "klötzchen-verfahren" benutzten normstämme. *Phytopath. Z.* 17:215-217. Sept.1950. 464.8 P562
- 10798 SERVI, G. Control of wheat caries and fungus-damaged grains (report on some cultural tests). (In Italian.) *Agr. Tosc.* 5:369-372. Oct.1950. 16 Ag827
- 10799 SHAFFER, T., and LIMING, O. N. Ceratostomella ulmi types in relation to development and identification of perithecia. *Phytopathology* 40:1035-1042. Nov.1950. 464.8 P56
- 10800 SIEBENEICK, H. Kraut- und braunfäule, die schrecken des kartoffelbaues! *Kartoffelwirtschaft* 3:322. Aug.11,1950. 286.83 K14
- 10801 SPRAGUE, R. Diseases of cereals and grasses in North America (fungi, except smuts and rusts). New York, Ronald Press Co., 1950. 538 p. Ref. 462.17 Sp7
- 10802 SPRAGUE, R., and HORD, H. H. V. The re-appearance of silver leaf [*Stereum purpureum*] in the apple orchards of Washington State. *Plant Dis. Rptr.* 34:414. Dec.15,1950. 1.9 P69P
- 10803 STAKMAN, E. C. New races of stem rust break out. *Minn. Farm & Home Sci. [Minn. Sta.]* 8:7,15. Oct.1950. 100 M668
- 10804 STOVER, R. H. Black rootrot [*Thielaviopsis basicola*] of tobacco in Ontario and factors relating to its control. *Plant Dis. Rptr.* 34:387-391. Dec.15,1950. 1.9 P69P
- 10805 SUMMARY of regional tests of cotton seed treatments, 1949. *Plant Dis. Rptr.* 34:334-337. Nov.15, 1950. 1.9 P69P
- 10806 SWINGLE, R. U. Report on research on the Dutch elm disease. *Arborist's News* 15:113-114. Oct. 1950. 99.8 Ar14
- 10807 THIZEAU, P. Un parasite des bies qui doit disparaître. *Défense Agr. de la Beauce et du Perche* 47:378. Oct.14,1950. 14 D38  
*Tilletia tritici*.
- 10808 TIMS, E. C. Onion and shallot downy mildew in Louisiana. *Plant Dis. Rptr.* 34:380-382. Dec.15,1950. 1.9 P69P
- 10809 TISDALE, W. H., and FLENNER, A. L. Derivatives of dithiocarbamic acid as fungicides. (Abs.) *Du Pont de Nemours, E. I. & Co., Agr. News Let.* 18:101. 103. Nov./Dec.1950. 6 D92
- 10810 TOMPKINS, C. M., and MIDDLETON, J. T. Etiology and control of poinsettia root and stem rot caused by *Pythium* spp. and *Rhizoctonia solani*. *Hilgardia* 20:171-182. Ref. Sept.1950. 100 C12H
- 10811 TURCEK, J. Does the pied-woodpecker control or distribute the moniliosis [*Monilia cinerea*] (In Czech.) *Ochrana Rostlin* 23:159-165. 1950. 464.8 Oc3  
English summary.
- 10812 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Give your white pine [*Pinus strobus*] a chance. Control blister rust. U. S. D. A. PA-138,8 p. Oct.1950. 1 Ag84PO
- 10813 VALLEJO, N. El cultivo de la papa en la Costa Central y la acción de *Phytophthora infestans*. *Rev. Agropecuaria del Perú* 1(2):47-48. Apr./June 1950. 9.8 R322
- 10814 VASUDEVA, R. S., and IYENGAR, M. R. S. Control of loose smut of barley. *Cur. Sci.* 19:218-219. July 1950. 475 Sci23
- 10815 VENKATARAYAN, S. V. Root disease or anabe roga of arecanut and coconut palms. *Mysore Agr. Calendar* 1949/50:25-27. 1949. 34.2 M99  
Caused by *Ganoderma lucidum*.



10816 VIENNOT-BOURGIN, G. La mort des boutons de pivoine; Sphaeropsis paeoniae, champignon parasite nouveau pour la France. Rev. de Path. Veg. et d'Ent. Agr. de France 29:21-25. Jan./June 1950. 464.9 Sol

10817 VILMORIN, R. DE. Traitement pratique des charbons internes des céréales. Rev. Agr. de l'Afrique du Nord 48:649-650. Sept.1,1950. 80 R326

Ustilago nuda.

10818 WADLOW, T. J. Let the farmers know. Farmers Wk. [London] 33(15):53,55. Oct.13,1950. 10 F2226

Prevention of take all and eye-spot of cereal crops.

10819 WARDLAW, C. W. Armillaria root and trunk rot of oil palms in the Belgian Congo. Trop. Agr. [Trinidad] 27:95-97. Apr./June 1950. 26 T754

10820 WHITEHEAD, M. D., and HOLT, E. C. Cercospora leaf spot [Cercospora festucae] of tall fescue an smooth brome. Phytopathology 40:1023-1026. Nov.1950. 464.8 P56

10821 WICHMANN. Die brennfleckenkrankheit der bohnen und erbsen. Gartenjahr 5:43. Mar.1950. 80 G1932

10822 WINTERS, H. F. Preventing damping-off in Cinchona seedbeds. Trop. Agr. [Trinidad] 27:123-126. Apr./June 1950. 26 T754

10823 YOUNG, P. A. First epidemic of tomato late blight in central east Texas. Plant Dis. Rptr. 34:338-339. Nov.15,1950. 1.9 P69P

10824 ZACHA, V. Notices to the infection of wheat grains with Penicillium. (In Czech.) Ochrana Rostlin 23:165-168. 1950. 464.8 Oc3

English summary.

10825 ZAK, B. Observations on Cronartium strobilinum in Georgia. Plant Dis. Rptr. 34:349. Nov.15,1950. 1.9 P69P

On Pinus caribaea.

10826 ZOGG, H. Über mischinfektionen bei fusserkrankheiten des getreides. Schweiz. Z. f. Allg. Path. u. Bakt. 13:574-579. 1950. 448.8 Sch9

#### Diseases Caused by Bacteria

10827 BEECHER, F. S., and DOOLITTLE, S. P. Control of angular leaf spot of cucumber with a copper fungicide. Plant Dis. Rptr. 34:383. Dec.15,1950. 1.9 P69P

Pseudomonas lachrymans.

10828 BEECHER, F. S., and DOOLITTLE, S. P. Dissemination of angular leaf spot [Pseudomonas lachrymans] of cucumber. Plant Dis. Rptr. 34:382-383. Dec. 15,1950. 1.9 P69P

10829 BONDE, R. Factors affecting potato blackleg and seed-piece decay. Maine. Agr. Expt. Sta. B. 482, 31 p. Ref. May 1950. 100 M28S

10830 BRAUN, A. C., and MOREL, G. A comparison of normal, habituated, and crown-gall tumor tissue implants in the European grape. Amer. J. Bot. 37:499-501. Ref. July 1950. 450 Am36

10831 BRAUN, A. C. A tumor-inducing bacterium isolated from Euonymus galls. Phytopathology 40:1058-1060. Nov.1950. 464.8 P56

10832 DE ROPP, R. S. Plant tumors and cancer. N. Y. Bot. Gard. J. 51:215-219. Sept.1950. 451 N48J

10833 KOCH, L. W. A bacterial soft rot of Gladiolus. Sci. Agr. 30:483-487. Nov.1950. 7 Sci2

10834 SHVORNEVA, A. M. Bacterial disease of watermelon. (In Russian.) Sad i Ogorod 1950(8):77-78. Aug.1950. 80 Sa13

10835 SMITH, W. L., JR. Pathogenic differences manifested by Erwinia atroseptica and Erwinia carotovora. Phytopathology 40:1011-1017. Nov.1950. 464.8 P56

#### Viruses and Virus Diseases

10836 ADSUAR, J. Studies on virus diseases of papaya (Carica papaya) in Puerto Rico. I-III. Puerto Rico U. J. Agr. 31:248-264. Ref. July 1947, pub.1950. 8 P832J

I, Transmission of papaya mosaic; II, Transmission of papaya mosaic by green citrus aphid (Aphis spiraeicola Patch); III, Property studies of papaya mosaic virus.

10837 BAKER, R. Chemicals found unsuitable for carnation virus control. South. Florist & Nurseryman 63(30):26-28. Oct.20,1950. 80 So86

10838 BERKELEY, G. H. Mild rugose mosaic of sweet cherry. Phytopathology 40:992-998. Nov.1950. 464.8 P56

10839 BRIERLEY, P., and SMITH, F. F. Some vectors, hosts, and properties of Dahlia mosaic virus. Plant Dis. Rptr. 34:363-370. Dec.15,1950. 1.9 P69P

10840 CAIN, J. C., and PARKER, K. G. Cherry yellows; extra feeding with nitrogen in spring will help trees to keep ahead of this incurable virus. Canad. Grower 73(11):6. Nov.20,1950. 80 C16

10841 CAPOOR, S. P., and VARMA, P. M. A new virus disease of Dolichos lablab. Cur. Sci. 19:248-249. Aug.1950. 475 Sci23

10842 CENTENERA, V. A cure for kadang-kadang. Agr. & Indus. Life 12(9):13. Sept.1950. 25 Ag8

A virus disease of coconut in the Philippines.

10843 CORNUET, P., MARTIN, C., and LIMASSET, P. Extraction du virus de la mosaïque du Dahlia (Marmor dahliae Holmes) à partir de Dahlias infectés et obtention de son antisérum. Paris. Acad. des Sci. Compt. Rend. 231:913-914. Oct.30,1950. 505 P21

10844 COSTA, A. S., GRANT, T. J., and MOREIRA, S. Relatives of tristeza; a possible relation between tristeza and the stem-pitting disease of grapefruit in Africa. Citrus Leaves 30(11):12-13,35,38. Nov.1950. 80 C492

10845 ESSER, J. Neue, bisher zu wenig bekannte gefahren im pflanzenbau. Saatgut-Wirtsch. 2:200-201. (To be cont.) Sept.1950. 61.8 Sa1

Virus diseases.

10846 FENNE, S. B., and ROWELL, J. O. Alfalfa yellows in Virginia. Plant Dis. Rptr. 34:344-345. Nov. 15,1950. 1.9 P69P

10847 GENDRON, Y., and LIMASSET, P. Titrages sérologiques du virus de la jaunisse de la betterave (Corium betae Holmes) dans les organes aériens de betteraves industrielles et de porte-graines infectés. Paris. Acad. des Sci. Compt. Rend. 231:792-793. Oct. 16,1950. 505 P21

10848 GRÜNEBERG, J. Die vergilbungskrankheit der zuckerrüben. Landbote 4(40):4. Oct.7,1950. 18 L2336

Also in Deut. Landwirt. Presse 73(21):5. Oct.7,1950. 18 D482

10849 KASSANIS, B. Heat inactivation of leaf-roll virus in potato tubers. Ann. Appl. Biol. 37:339-341. Ref. Sept.1950. 442.8 An72

10850 KRISTENSEN, H. R. Virus diseases of stone fruit trees. (In Danish.) Gart.-Tid. 66:423-424. Sept. 20,1950. 80 G192

10851 MCCLEAN, A. P. D. Virus infections of citrus in South Africa. Farming So. Africa 25:261-262,289-296. Aug.-Sept.1950. 24 So842

10852 MILBRATH, J. A. Latent ringspot virus of cherries reduces growth of nursery trees. Plant Dis. Rptr. 34:374-375. Dec.15,1950. 1.9 P69P

10853 MUNGER, C. A. Two new mosaic-resistant cucumbers. Farm Res. [N. Y. State Sta.] 16(4):13. Oct. 1950. 100 N48A

10854 OSWALD, J. W. A strain of the alfalfa-mosaic virus causing vine and tuber necrosis in potato. Phytopathology 40:973-991. Ref. Nov.1950. 464.8 P56

10855 PIRIE, N. W. Britain studies many virus diseases in plants. Pacific Coast Nurseryman 9(11):15,39. Nov.1950. 80 P116

10856 QUANJER, H. M., and THUNG, T. H. International Committee on Nomenclature and Classification of Plant Viruses. (In Dutch.) Tijdschr. over Plantenziekt 56:286-287. July/Aug.1950. 464.8 T44

English summary.

10857 RAPHAEL, T. D. Berry fruits—British stock certification. Tasmanian J. Agr. 21:168-176. (To be cont.) Aug.1950. 23 T182T

Control of virus and fungus diseases.

10858 RAYCHAUDHURI, S. P., and PATHANIAN, P. S. A mosaic disease of Crotalaria mucronata Desv. (C. striata DC). Cur. Sci. 19:213. July 1950. 475 Sci23

10859 RAZVIAZKINA, G. M. On the spreading of big bud virus in nature. (In Russian.) Mikrobiologiya 19: 256-259. May/June 1950. 448.3 M582

Hyalesthes obsoletus as vector in tomato experiment.

10860 ROBERTS, F. M. The infection of plants by viruses through roots. Ann. Appl. Biol. 37:385-396. Ref. Sept.1950. 442.8 An72

Experiments with tomato plants.



- 10861 SCHENK, P. J. Virus diseases of strawberries. (In Flemish.) *Cult. en Handel* 16:607-608. Oct. 1950. 80 C892
- 10862 SCHWING, E. A. Curly top damage controlled in spite of record hopper [*Eutettix tenellus*] outbreak. *Spreckels Sugar Beet B.* 14:38-39. Sept./Oct. 1950. 66.8 Sp7
- 10863 SEVERIN, H. H. P., and TOMPKINS, C. M. Aphid transmission of severe-mosaic virus of annual stock. *Hilgardia* 20:93-108. Aug. 1950. 100 C12H
- 10864 SEVERIN, H. H. P. Multiple viruses of tomato inducing fruit malformation and leaf symptoms. *Hilgardia* 20:109-136. Aug. 1950. 100 C12H
- 10865 SEVERIN, H. H. P. Symptoms of the celery-calico virus on tomato plants. *Hilgardia* 20:137-145. Aug. 1950. 100 C12H
- 10866 STAHMANN, M. A., HAGEDORN, D. J., and BURGER, W. C. The electron micrograph of the Wisconsin pea-streak virus. *Phytopathology* 40:999-1006. Nov. 1950. 464.8 P56
- 10867 STONER, W. N., and HOGAN, W. D. A report of graywall or internal browning of tomato in south Florida. *Plant Dis. Rptr.* 34:379-380. Dec. 15, 1950. 1.9 P69P
- 10868 SWINGLE, R. U., and BRETZ, T. W. Zonate canker, a virus disease of American elm. *Phytopathology* 40:1018-1022. Nov. 1950. 464.8 P56
- 10869 THIEL, J. Virus diseases. (In Flemish.) *Cult. en Handel* 16:605-607. Oct. 1950. 80 C892
- Of greenhouse plants.
- 10870 THOMAS, H. R., and ZAUMEYER, W. J. Inheritance of symptom expression of pod mottle virus. *Phytopathology* 40:1007-1010. Nov. 1950. 464.9 P56
- On beans.
- 10871 TOURJE, E. C. Virus transmission through grafting. In *Southern California Camellia Society. Horticultural Research Committee. Camellia research*, p. 68-71. Pasadena, 1950. 97.31 So822
- 10872 WEIMER, J. L. Two virus diseases of blue lupine. *Plant Dis. Rptr.* 34:376-378. Dec. 15, 1950. 1.9 P69P
- 10873 ZINK, F. W., and DAVIS, G. N. Cantaloupe mosaic as affected by nitrogen fertilization. *Plant Dis. Rptr.* 34:371-373. Dec. 15, 1950. 1.9 P69P
- Diseases Caused by Nematodes**
- 10874 BARSEWISCH, E. VON. Auf leisen sohlen, Hannoversche Land- u. Forstwrt. Ztg. 103:848. Sept. 23, 1950. 18 H194
- Heterodera rostochiensis* on potatoes.
- 10875 EDWARDS, E. E. Experiments with D-D mixture against root-knot eelworm, *Heterodera marioni* (Cornu). *J. Helminthol.* 24:123-136. 1950. 436.8 J82
- 10876 FELDMESSER, J., and FASSULIOTIS, G. Reactions of the golden nematode of potatoes, *Heterodera rostochiensis* Wollenweber, to controlled temperatures and to attempted control measures. *Wash. Acad. Sci. J.* 40:355-361. Ref. Nov. 15, 1950. 500 W276J
- 10877 GISIGER, L., and SCHENKER, P. Fehler der fruchtfolge rächen sich! *Grüne* 78:1145-1153. Oct. 20, 1950. 17 Sch9
- Chiefly on nematode diseases of sugar beets.
- 10878 GODFREY, G. H., and WAIBEL, C. W. The citrus nematode in the Lower Rio Grande Valley. *Tex. Farming & Citric.* 27(4):5. Oct. 1950. 80 T31
- 10879 HEMER, M. Achtet auf den kartoffelnematoden! *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A: 1241. Sept. 7, 1950. 18 L2346
- 10880 IASHCHUK, A. P., and TERESHCHENKO, E. F. Control of stem nematode in potatoes. (In Russian.) *Sad i Ogorod* 1950(8):32-34. Aug. 1950. 80 Sa13
- 10881 JONES, F. G. W. Observations on the beet eelworm [*Heterodera schachtli*] and other cyst-forming species of *Heterodera*. *Ann. Appl. Biol.* 37:407-440. Ref. Sept. 1950. 442.8 An72
- 10882 LINDHARDT, K. Attack by nematodes on violets, anemones, and lilies. (In Danish.) *Gart.-Tid.* 66:468-469. Oct. 18, 1950. 80 G192
- 10883 LUBATTI, O. F., and BLACKITH, R. E. Fumigation of agricultural products. II. Susceptibility of seed potatoes to the vapour of methyl bromide. *J. Sci. Food & Agr.* 1:240-244. Aug. 1950. 382 So12
- For control of *Heterodera rostochiensis*.
- 10884 MARTIN, G. C. Combined eelworm and weed control. *Rhodesian Farmer* 4(8):29. Sept. 13, 1950. 24 R347
- 10885 MORENO, A. F. La anguilulosis en la horticultura. *Charla Rur.* 144:28-29, 56. Oct. 1950. 9 C37
- Heterodera marioni*.
- 10886 NEETHLING, L. J. Experiments in controlling eelworm by means of fumigation. *Rhodesian Farmer* 4(8):24. Sept. 13, 1950. 24 R347
- 10887 OWENS, J. V. Sting nematode found hostile toward Virginia peanuts. *Peanut J. & Nut World* 30:31. Nov. 1950. 77.8 P313
- 10888 PETERS, B. G. Controlling potato root eelworm. *Brit. Farmer* 28:11. Oct. 31, 1950. 281.8 B77
- Also in *Farming [Norwich]* 4:338-341. Nov. 1950. 10 F2236
- 10889 RASKI, D. J. Sugar-beet nematode control. *Spreckels Sugar Beet B.* 14:34, 40. Sept./Oct. 1950. 66.8 Sp7
- 10890 RUYLS, C. L. W. Nematodes on potatoes. (In Dutch.) *Volkstuin* 33:97. Sept. 1950. 80 V88
- 10891 SACHS, H. Zur wirkung von E 605f auf blattlächen [*Aphelenchoides oleisistis*]. *Anz. f. Schädlingsk.* 23:117-118. Aug. 1950. 421 An9
- 10892 SCARSETH, G. D. Let's declare war on nematodes! *Nation's Agr.* 25(11):9, 16. Dec. 1950. 280.82 B89
- 10893 SHEWELL-COOPER, W. E. Preparing for Phlox; eelworm is the enemy, and infected weeds must be eradicated. *Field* 198:751. Oct. 28, 1950. 10 F45
- 10894 SOUTHEY, J. F., and STANILAND, L. N. Observations and experiments on stem eelworm, *Ditylenchus dipsaci* (Kühn, 1857) Filipjev, 1936, with special reference to weed hosts. *J. Helminthol.* 24:145-154. 1950. 436.8 J82
- 10895 STAPLEY, J. H. Parathion kills *Chrysanthemum* eelworm. *Grower [London]* 34:935. Nov. 5, 1950. 286.83 M34
- Aphelenchoides ritzemabosi*.
- 10896 TARJON, A. C. Parathion—its action against the meadow nematode [*Paratylenchus* spp.]. *Agr. Chem.* 5(12):32-34, 95, 97. Ref. Dec. 1950. 381 Ag8
- 10897 WRIGHT, G. P. Sugar beet nematode in the Salinas District. *Spreckels Sugar Beet B.* 14:35, 40. Sept./Oct. 1950. 66.8 Sp7

## ECOLOGY

- 10898 ARCHBALD, D. The effect of quadrat size and quadrat method on apparent plant dispersion. (Abs.) *Ecol. Soc. Amer. B.* 31:52. Sept. 1950. 410.9 Ec7
- 10899 ARTZ, L. A bit of the flora in and around an old iron furnace. *Castanea* 15:131-134. Sept. 1950. 450 So82
- 10900 BUELL, M. F., and CANTLON, J. E. A study of two communities of the New Jersey pine barrens and a comparison of methods. *Ecology* 31:567-586. Ref. Oct. 1950. 410 Ec7
- 10901 CAIN, S. A. Irish bogs. (Abs.) *Ecol. Soc. Amer. B.* 31:56-57. Sept. 1950. 410.9 Ec7
- 10902 COSANDEY, F. Protégeons nos tourbières. *Schweiz. Naturf. Gesell. Verhandl.* 129:12-23. 1949. 508 B452
- 10903 COUPLAND, R. T. Ecology of mixed prairie in Canada. *Ecol. Monog.* 20:271-315. Ref. Oct. 1950. 410 Ec72
- 10904 DAVIS, C. C., and WILLIAMS, R. H. Brackish water plankton of mangrove areas in southern Florida. *Ecology* 31:519-531. Ref. Oct. 1950. 410 Ec7
- 10905 EMBERGER, L., MANGENOT, G., and MIÈGE, J. Caractères analytiques et synthétiques des associations de la forêt équatoriale de Côte d'Ivoire. *Paris. Acad. des Sci. Compt. Rend.* 231:812-814. Oct. 23, 1950. 505 P21
- 10906 EMBERGER, L., MANGENOT, G., and MIÈGE, J. Existence d'associations végétales typiques dans la forêt dense équatoriale. *Paris. Acad. des Sci. Compt. Rend.* 231:640-642. Oct. 2, 1950. 505 P21
- 10907 ERMILOV, G. B. On intra-specific interrelations of plants. (In Russian.) In *Shibanov, A. A., comp. Sbornik statei po voprosam Mithurinskoj biologii*, p. 166-180. Moskva, Ministerstvo Prosveshcheniia RSFSR, 1950. 442 Sh6S



- 10908 FOSBERG, F. R. Ecological notes on the Upper Amazon. *Ecology* 31:650-653. Oct. 1950. 410 Ec7  
Chiefly plants.
- 10909 GEOBOTANISCHE FORSCHUNGSINSTITUT RÜBEL, ZÜRICH. Bericht über das Jahr 1949, by E. Rübel and W. Lüdt. Zürich, 1950. 117 p. 451 Z83Be
- 10910 HANDEL-MAZZETTI, H., FREIHERR VON. Zur floristischen erforschung von Tirol und Vorarlberg. *Österr. Bot. Z.* 96:83-108. 1949. 450 Os7
- 10911 HANSON, H. C. Comparison of certain plant communities in Alaska with similar communities in Norway. (Abs.) *Ecol. Soc. Amer. B.* 31:54. Sept. 1950. 410.9 Ec7
- 10912 HANSON, H. C. Utilization of plant-animal resources in northwestern Alaska: an ecological interpretation. (Abs.) *Ecol. Soc. Amer. B.* 31:55. Sept. 1950. 410.9 Ec7
- 10913 HANSON, H. C. Vegetation and soil profiles in some solifluction and mound areas in Alaska. *Ecology* 31:606-630. Ref. Oct. 1950. 410 Ec7
- 10914 HARVILL, A. M. The logical approach to distributional problems of cryptogamic plants. (Abs.) *Ecol. Soc. Amer. B.* 31:57-58. Sept. 1950. 410.9 Ec7
- 10915 HAYWARD, C. L. Ecological studies in alpine communities of the Uinta Mountains, Utah. (Abs.) *Ecol. Soc. Amer. B.* 31:53. Sept. 1950. 410.9 Ec7
- 10916 HOWARD, R. A. Vegetation of the Bimini Island group, Bahamas, B. W. I. *Ecol. Monog.* 20:317-349. Oct. 1950. 410 Ec72
- 10917 IL'IN, M. M. Nature of the desert plant (eremophyte) in the light of plant science study of deserts. (In Russian.) In Pavlovskii, E. N., and Il'in, M. M., eds. *Pustyni SSSR i ikh osvoenie*, p. 56-76. Ref. Moskva, Akademika Nauk SSSR, 1950. 409 P282
- 10918 JENKINS, D. W. Northern extension of the maple-basswood forest during the xerothermic period. (Abs.) *Ecol. Soc. Amer. B.* 31:53-54. Sept. 1950. 410.9 Ec7
- 10919 LEOPOLD, A. S. Vegetation zones of Mexico. *Ecology* 31:507-518. Ref. Oct. 1950. 410 Ec7
- 10920 LIPPERT, R. D., and HOPKINS, H. H. Study of viable seeds in various habitats in mixed prairie. *Kans. Acad. Sci. Trans.* 53:355-364. Ref. Sept. 1950. 500 K13T
- 10921 MCGREGOR, R. L., and VOLLE, L. D. First year invasion of plants on the exposed bed of Lake Fegan, Woodson County, Kansas. *Kans. Acad. Sci. Trans.* 53:372-377. Sept. 1950. 500 K13T
- 10922 MCINTOSH, R. P., and CURTIS, J. T. The upland hardwoods continuum of southwestern Wisconsin. (Abs.) *Ecol. Soc. Amer. B.* 31:56. Sept. 1950. 410.9 Ec7
- 10923 ODUM, E. P. Bird populations of the Highlands (North Carolina) Plateau in relation to plant succession and avian invasion. *Ecology* 31:587-605. Ref. Oct. 1950. 410 Ec7
- 10924 PENFOUND, W. T., and KELTING, R. W. Some effects of winter burning on a moderately grazed pasture. *Ecology* 31:554-560. Ref. Oct. 1950. 410 Ec7
- 10925 POTZGER, J. E., and POTZGER, M. E. Secondary succession in an Illinoisian tillplain habitat in Versailles State Park, Indiana. (Abs.) *Ecol. Soc. Amer. B.* 31:45-46. Sept. 1950. 410.9 Ec7
- 10926 PURI, G. S., and GUPTA, A. C. The calcium content of the foliage of sal [*Shorea robusta*] and its common associates in the Dun Valley. *Indian Bot. Soc. J.* 29:139-144. Ref. Aug. 1950. 450 J821
- 10927 RAGONESE, A. Metodos de estudio de la vegetación; escuelas europeas y americana. La Plata. U. Nac. Facul. de Agron. Lab. de Bot. B. 2:1. June 1950. 451 L312
- 10928 RICE, E. L. The effects of mulches on succession in a plowed prairie and an abandoned field. (Abs.) *Ecol. Soc. Amer. B.* 31:57. Sept. 1950. 410.9 Ec7
- 10929 SCHMID, E. Zur vegetationsanalyse numidischer eichenwälder. *Geobot. Forschinst. Rübel. Zürich. Ber.* 1949:23-39. 1950. 451 Z83Be
- 10930 SHANKS, R. E., and NORRIS, F. H. Microclimatic variation in a small valley in eastern Tennessee. *Ecology* 31:532-539. Ref. Oct. 1950. 410 Ec7
- 10931 WOOD, R. D. Stability and zonation of Characeae. *Ecology* 31:642-647. Oct. 1950. 410 Ec7

## MORPHOLOGY, ANATOMY, AND CYTOLOGY

- 10932 AGRAWAL, J. S. The embryo sac of *Fritillaria liliacea*. *Natl. Inst. Sci. India. Proc.* 16:87-92. Ref. Mar./Apr. 1950. 513 N212
- 10933 AL'SMIK, P. I. Classification of potato varieties in selection according to morpho-biological characteristics. (In Russian.) *Agrobiologia* 1950(4):100-109. July/Aug. 1950. 20 Ag822
- 10934 ARTIUSHENKO, Z. T. Morpho-anatomical analysis of the seed and fruit of tea. (In Russian.) *Priroda* 39(6):76-78. June 1950. 410 P933
- 10935 BALDINI, E. The biology of the pepper plant. (In Italian.) *Ital. Agr.* 87:628-637. Ref. Oct. 1950. 16 It1
- 10936 BANNAN, M. W. The frequency of anticlinal divisions in fusiform cambial cells of *Chamaecyparis*. *Amer. J. Bot.* 37:511-519. Ref. July 1950. 450 Am36
- 10937 BAUM, H. Die einheitliche bauplan der angiospermengynozoen und die homologie ihrer fertilen abschnitte. *Österr. Bot. Z.* 96:64-82. Ref. 1949. 450 Os7
- 10938 BHARDWAJ, D. C. Studies in Indian Anthocerotaceae. I. The morphology of *Anthoceros crispulus* (Mont.) Douin. *Indian Bot. Soc. J.* 29:145-163. Ref. Aug. 1950. 450 J821
- 10939 BONNER, J. T. Observations on polarity in the slime mold *Dictyostelium discoideum*. *Biol. B.* 99:143-151. Ref. Oct. 1950. 442.8 B52
- 10940 BROWN, S. W. Spurious secondary association and asymmetric spindles in a *Luzula* [campestris]. *Cytologia* 15:259-268. Ref. Aug. 1950. 442.8 C99
- 10941 BUGNON, F. Sur l'existence du mode apotrope de dorsiventralité dans les rameaux végétatifs de l'orme champêtre (*Ulmus campestris* L.). *Paris. Acad. des Sci. Compt. Rend.* 231:982-984. Nov. 6, 1950. 505 P21
- 10942 BUXBAUM, F. Vorläufer des kakteen-habitus bei den Phytolaccaceen. *Österr. Bot. Z.* 96:5-14. 1949. 450 Os7
- 10943 CAVE, M. S., and CONSTANCE, L. Chromosome numbers in the Hydrophyllaceae. IV. *Calif. U. P. Bot.* 23:363-381. Feb. 1950. 500 C125B
- 10944 CHADEFAUD, M. Les cellules nageuses des algues dans l'embranchement des Chlorophycées. *Paris. Acad. des Sci. Compt. Rend.* 231:988-990. Nov. 6, 1950. 505 P21
- 10945 CHADEFAUD, M. Les cellules nageuses des algues dans l'embranchement des Chromophycées. *Paris. Acad. des Sci. Compt. Rend.* 231:788-790. Oct. 16, 1950. 505 P21
- 10946 CHAKRAVERTI, D. N. Anomalous secondary growth in some roots of *Hydrocotyle asiatica* Linnaeus. *Philippine J. Sci.* 78:291-298. Ref. Sept. 1949. 475 P53
- 10947 CHANDRASEKHARAN, S. N., SUNDARAJ, D. D., and RAMANATHAN, K. Three styled *Oryza*. *Cur. Sci.* 19:291-292. Sept. 1950. 475 Sc123
- 10948 CRÉTÉ, P. Embryologie des Scrofulariaceae. Développement de l'albumen chez les *Nemesia*. *Paris. Acad. des Sci. Compt. Rend.* 231:711-713. Oct. 9, 1950. 505 P21
- 10949 DOWDING, E. S. Histoplasma and Brazilian Blastomyces. *Mycologia* 42:668-679. Ref. Sept./Oct. 1950. 450 M99
- 10950 EHRENDORFER, F. Zur phylogenie der gattung *Galium*. I. *Österr. Bot. Z.* 96:109-138. Ref. 1949. 450 Os7
- 10951 ELLENGOR, A. E., and SVETOZAROVA, V. V. Fertilization process in Angiospermae. (In Russian.) *Akad. Nauk SSSR. Izv. Ser. Biol.* 1950(3):20-42. Ref. May/June 1950. 511 Sa2B
- 10952 FEDOROV, A. A. Anomalies in some Compositae and their importance in understanding the formation of inflorescences. (In Russian.) *Bot. Zhur.* 35:148-161. Ref. Mar./Apr. 1950. 451 R923
- 10953 FISCHER, W. Doppelplize. *Kosmos* 46:466. Oct. 1950. 474 K842
- 10954 GARRIGUES, R. Sur un type particulier de noyau trouvé dans les hyménoptéroécidies. *Paris. Acad. des Sci. Compt. Rend.* 231:984-986. Nov. 6, 1950. 505 P21
- 10955 GETTLER, L. Das kopulationsverhalten von *Mougeotia polymorpha* n. sp. und die azygotenbildung von *Spirogyra dimorpha* n. sp. *Österr. Bot. Z.* 96:15-24. 1949. 450 Os7



- 10956 GESSNER, F. Die stomatoden des Victoria-blattes. *Planta* 38:123-131. Ref. 1950. 450 P693
- 10957 GOLYSHEVA, M. G. Morphology of the development of the fungus, *Eremothecium ashbyi*. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:585-587. July 21, 1950. 511 P444A
- 10958 GOVINDASWAMI, S. Doubling of chromosomes in the root tips of *Musa*. *Cur. Sci.* 19:255. Aug. 1950. 475 Sci23
- 10959 HESS, R. W. Classification of wood parenchyma in dicotyledons. *Yale U. School Forestry. Trop. Woods* 96:1-20. Ref. Sept. 1, 1950. 99.08 Y1Tr
- 10960 HETZER, W. A., and VOLLE, L. D. Stomatal counts of Kansas species in certain genera of the Compositae. *Kans. Acad. Sci. Trans.* 53:370-371. Sept. 1950. 500 K13T
- 10961 IAKOVLEV, M. S. On the structure of the pericarp integuments in rice (*Oryza sativa*). (In Russian.) *Bot. Zhur.* 35:162-170. Ref. Mar./Apr. 1950. 451 R923
- 10962 KAIENBURG, A. L. Zur kenntnis der pollenplastiden und der pollenschlauchleitung bei einigen Oenotheraceen. *Planta* 38:377-430. Ref. 1950. 450 P693
- 10963 KOELLREUTER, J. Morphologie und biologie von *Rhabdospira ramealis* (Desm. et Rob.) Sacc. *Phytopath. Z.* 17:129-160. Ref. Sept. 1950. 464.8 P562
- 10964 KRAUSE, W. Über keimung und jugendwachstum im Hinblick auf die entwicklung der pflanzendecke. II. *Planta* 38:132-156. Ref. 1950. 450 P693
- 10965 KRISHNASWAMY, N., RAMAN, V. S., and NAIR, N. H. An autotetraploid in the pearl millet. *Cur. Sci.* 19:252-253. Aug. 1950. 475 Sci23
- 10966 LURIE, H. I. Pathogenic *Sporotricha*; their carbohydrate reactions. *Mycologia* 42:624-641. Ref. Sept./Oct. 1950. 450 M99
- 10967 LUTRI, I. Autosterility in the olive. (In Italian.) *Glor. di Agr.* 60:319. Oct. 8, 1950. 16 It1G
- 10968 MAHESHWARI, P., and NARAYANASWAMI, S. Parthenogenetic development of the egg in *Spiranthes australis* Lindl. *Cur. Sci.* 19:249-250. Aug. 1950. 475 Sci23
- 10969 MARINUCCI, M. Inflorescence of olive. (In Italian.) *Ital. Agr.* 87:521-524. Sept. 1950. 16 It1
- 10970 MMEUR, G. Présence de poils glanduleux et homologues du scutellum et de la feuille chez les Graminées. *Paris. Acad. des Sci. Compt. Rend.* 231:666-668. Oct. 2, 1950. 505 P21
- 10971 MITRA, G. C. Developmental studies. A comparative account of the origin, development and morphology of the stipules of *Artocarpus integrifolia* L., *Ficus religiosa* L. and *Ficus elastica* Roxb. *Natl. Inst. Sci. India. Proc.* 16:157-168. Ref. May/June 1950. 513 N212
- 10972 MORIYA, A. Contributions to the cytology of the genus *Saccharum*. IV. Studies of chromosomes in wild *Saccharum* species in Formosa. *Cytologia* 15:237-254. Ref. Aug. 1950. 442.8 C99
- 10973 MÜLLER-TIBURTIUS, K. H. Einführung in die botanik. III. Die wurzel. *Deut. Baumsch.* 2:196-197. Aug. 1, 1950. 80 D486
- 10974 MURTHY, M. H. S. A preliminary note on the karyotype of *Launaea nudicaulis* Less. *Cur. Sci.* 19:254-255. Aug. 1950. 475 Sci23
- 10975 ORBEA, J. R. Carácterés anatómicos en raíces de "*Taraxacum kok-saghyz*" y su relación con el rendimiento en caucho. *La Plata. U. Nac. Facul. de Agron. Rev.* 27:53-78. Ref. Dec. 1949. 9 R32
- English summary.
- 10976 PATTERSON, E. B., LONGLEY, M. O., and ROBERTSON, D. S. Chromosome numbers in cultivated Camellias. In Southern California Camellia Society. Horticultural Research Committee. Camellia research, p. 64-67. Pasadena, 1950. 97.31 S822
- 10977 PEREAU-LEROY, P. Observations sur le pollen des agrumes. *Fruits d'Outre Mer* 5:290-293. Aug./Sept. 1950. 80 F9492
- 10978 RAO, C. V. Contributions to the embryology of Sterculiaceae. II. *Waltheria indica* Linn. *Indian Bot. Soc. J.* 29:163-176. Ref. Aug. 1950. 450 J821
- 10979 RAPER, J. R. Sexual hormones in *Achlya*. VI. The hormones of the A-complex. *Natl. Acad. Sci. Proc.* 36:524-533. Oct. 1950. 500 N21P
- 10980 RAUH, W. Zur symmetrie der blüte. *Kosmos* 46:454-458. Oct. 1950. 474 K842
- 10981 ROSTOVTSSEVA, Z. P. In regard to structure of the spike in millet. (In Russian.) *Agrobiologiya* 1950 (4):155-156. July/Aug. 1950. 20 Ag822
- 10982 SHIELDS, L. M. Leaf xeromorphy as related to physiological and structural influences. *Bot. Rev.* 16:399-447. Ref. Oct. 1950. 450 B6527
- 10983 SOUÈGES, R. Embryogénie des Papilionacées. Développement de l'embryon chez le *Phaseolus vulgaris* L. *Paris. Acad. des Sci. Compt. Rend.* 231:637-640. Oct. 2, 1950. 505 P21
- 10984 SUBRAMANYAM, K. Development of embryo sac and endosperm in *Stylidium tenellum* Swartz. *Cur. Sci.* 19:294. Sept. 1950. 475 Sci23
- 10985 SUITA, N. A histochemical determination of the nature of the "droplets" in the generative cell in vivo. *Cytologia* 15:269-280. Ref. Aug. 1950. 442.8 C99
- Observations on *Narcissus tazetta*.
- 10986 TABAIN, F. Contribution à l'étude des propriétés morphologiques et biologiques de nos figuiers. (In Croatian.) *Yugoslavia. Min. Poljoprivrede. Radovi Poljoprivrednih Naučno-Istraživačkih Ustanova* 1:124-156. 1949. 21.5 Y93
- French summary.
- 10987 TROLL, W. Über die gestaltung der kotyledonen von *Tilia* und *Lepidium sativum*. *Planta* 38:12-35. Ref. 1950. 450 P693
- 10988 TSCHERMAK-WOESS, E. Diploides *Taraxacum vulgare* in Wien und Niederösterreich. *Osterr. Bot. Z.* 96:56-63. Ref. 1949. 450 Os7
- 10989 WEBER, H. Über das wachstum des rhizoms von *Butomus umbellatus* L. *Planta* 38:196-204. Ref. 1950. 450 P693
- 10990 WILDEMAN, E. DE. Les liquides laticifomes des Guttiféracées (supplément). Bruxelles, Palais des Académies, 1949. 79 p. (Académie Royale de Belgique. Classe des Sciences. Mémoires. Collection in-8°. t. 23, fasc. 7) 463.29 W64
- 10991 WULFF, H. D. Ölgehalt und chromosomenzahl des nordamerikanischen kalmus (*Acorus calamus* L.). *Arch. der Pharm.* 283:155-161. 1950. 396.8 Ar2A
- 10992 YOUNGKEN, H. W., and SIMONIAN, V. H. A study of the seeds of *Strophanthus sarmentosus* and some related species of *Strophanthus*. *Amer. Pharm. Assoc. J. Sci. Ed.* 39:615-620. Ref. Nov. 1950. 396.9 Am33J

## GENETICS

- 10993 BAKHTEEV, F. KH., and DAREVSKAIA, E. M. Botanical description of  $F_1$  hybrid (*Hordelymus zizini* Bacht. et Dar.) obtained from crossing barley with *Elymus*. (In Russian.) *Bot. Zhur.* 35:188-191. Mar./Apr. 1950. 451 R923
- 10994 BALASUBRAHMANYAN, R. The association of size and colour in gram (*Cicer arietinum* L.). *Cur. Sci.* 19:246-247. Aug. 1950. 475 Sci23
- 10995 BANCROFT, W. D. Heredity and environment. IV. *J. Phys. & Colloid Chem.* 54:1269-1277. Dec. 1950. 381 J822
- With particular reference to plants.
- 10996 BAUMGARTEN, O. Steigerung der produktivität durch anwendung der methode Mitschurin. *Deut. Landwirt.-Gesell. Mitt.* 3:261-263. Aug. 1950. 18 D48M1
- 10997 BOERGER, A. Las discusiones contemporáneas sobre la "nueva" genética vegetal soviética. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 339:13-14; 340:11, 19; 341:10. Sept. 21-Oct. 5, 1950. 9.9 G15B
- 10998 CARLES, J. L'hétérosis. *Rev. Gén. des Sci. Pures et Appl.* 57:137-142. 1950. 473 R324
- In plants.
- 10999 CLAYTON, E. E. Male sterile tobacco. *J. Hered.* 41:171-175. July 1950. 442.8 Am3
- 11000 CRANE, M. B. Hybrid vigour and its uses. *Grower [London]* 34:987-989. Nov. 11, 1950. 286.83 M34
- Plants.
- 11001 DYHRENFURTH, K., and RÜBENSAM, E. Die Mitschurin-Lysenko-forschung in Mecklenburg. *Deut. Landwirt.-Gesell. Mitt.* 3:292-293. Aug. 1950. 18 D48M1
- 11002 ENIKEEV, KH. K. Michurinite methods for developing new varieties of fruit and berry plants. (In Russian.) In Shibanov, A. A., comp. *Sbornik statei po voprosam Michurinskoi biologii*, p. 180-192. Moskva, Ministerstvo Prosveshcheniya RSFSR, 1950. 442 Sh63



- 11003 HAAN, H. DE. Effect of the development of genetics on our plant breeding since 1900. (In Dutch.) *Nieuwe Veldbode* 16:764. Aug. 31, 1950. 12 V542N
- 11004 KARAPETIAN, V. K. Changing hard wheat into soft. (In Russian.) In Shibanov, A. A., comp. *Sbornik statei po voprosam Michurinskoi biologii*, p. 146-166. Moskva, Ministerstvo Prosveshcheniia RSFSR, 1950. 442 Sh6S
- 11005 KHMELEV, B. I. Grafting cereals by the method of embryo transplantation. (In Russian.) *Agrobiologiya* 1950(4):126-132. July/Aug. 1950. 20 Ag822
- 11006 KRESS, H. Mitschurin-Lysenko-arbeiten in der saatzucht Gültow-Güstrow (Mecklenburg). Deut. Landwirt.-Gesell. Mitt. 3:270-273. Aug. 1950. 18 D48M1
- 11007 LATTIN, G. DE. Über die letalität eines anthocyan-gens bei der rebe. *Naturwissenschaften* 37: 428-429. Sept. 15, 1950. 474 N213
- 11008 LIASHCHENKO, I. F., and ESMONT, A. M. Controlled variability of plant organisms with shaken heredity. (In Russian.) *Akad. Nauk SSSR. Izv. Ser. Biol.* 1950(4):44-56. July/Aug. 1950. 511 Sa2B  
Experiments with winter wheat.
- 11009 MARIOTA-TRIAS, F. A study of the effect of six qualitative character pairs on yield and component characters in the F<sub>2</sub> of a cross between two varieties of barley. *Puerto Rico U. J. Agr.* 31:227-247. Ref. July 1947, pub. 1950. 8 P832J
- 11010 MARTSENITSINA, K. K. Development of various forms of wild oats from cultivated oats. (In Russian.) *Agrobiologiya* 1950(4):60-64. July/Aug. 1950. 20 Ag822
- 11011 MENEZES, O. B. Genetics and sex of the papaya plant. (In Portuguese.) *Rev. Agron. [Pôrto Alegre]* 14:83-84. Apr./June 1950. 9.2 R325
- 11012 MIKHAÏLOVA, L. V. Conversion of cabbage into turnip. (In Russian.) *Agrobiologiya* 1950(4):38-44. July/Aug. 1950. 20 Ag822
- 11013 MOES, A. Les modifications des disjonctions mendéliennes. *B. Hort. (n.s.)* 5:247-249. Sept. 1, 1950. 80 B873
- 11014 OWNBEY, M. Natural hybridization and amphiploidy in the genus *Tragopogon*. *Amer. J. Bot.* 37:487-499. Ref. July 1950. 450 Am36
- 11015 RIZET, G., and SICHLER, G. Sur le démasquage du génotype des souches s<sup>s</sup> de *Podospora anserina*. *Paris. Acad. des Sci. Compt. Rend.* 231:719-721. Oct. 9, 1950. 505 P21
- 11016 SCHMIDT, M. Zur mentormethode. Deut. Landwirt.-Gesell. Mitt. 3:273-275. Aug. 1950. 18 D48M1  
Genetics according to the theories of Michurin and Lysenko.
- 11017 SCOTTISH SOCIETY FOR RESEARCH IN PLANT-BREEDING. Report, annual general meeting, 27th July 1950. Edinburgh, 1950. 55 p. 10 Sco86
- 11018 SEGAL, J. Les théories de Mitchourine, Lysenko et le mécanisme de l'hérédité. *Indus. Agr. et Aliment.* 67:347-356. Ref. Aug./Oct. 1950. 383 As7  
English summary.
- 11019 TATUM, E. L., and PERKINS, D. D. Genetics of microorganisms. *Annu. Rev. Microbiol.* 4:129-150. Ref. 1950. 448.3 An72
- 11020 VALE, M. M. DO. Plant breeding in Angola. (In Portuguese.) *Agron. Angolana* 3:17-25. 1950. 24 Ag83  
English summary.
- 11021 WANDEL, G. Vegetative hybridisierung. Deut. Landwirt.-Gesell. Mitt. 3:268-270. Aug. 1950. 18 D48M1
- 11022 ZARUBAYLO, T. A. Michurinskoe uchenie v selektsii i semenovodstve kul'turnykh rastenii [Michurin's teaching in selection and seed production of cultivated plants]. Leningrad, 1950. 37 p. 463.6 Z1  
Library has English translation no. 6384.
- 11026 ANDERSEN, S., and HERMANSEN, J. Effect of hormone derivatives on cultivated plants. II. Spraying of cereals with 2,4-D and 4K-2M at different dates. *Denmark. Vet.-og Landbohøjsk. Arsskr.* 1950:141-203. Ref. 104 D41A
- 11027 ANISHCHENKO, N. F., and VOLODARSKII, N. I. Changes in the content of dry matter in tobacco leaves during vegetation. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:589-592. Ref. July 21, 1950. 511 P444A
- 11028 ARONOFF, S. The absorption spectra of chlorophyll and related compounds. *Chem. Rev.* 47:175-195. Ref. Oct. 1950. 381 C425
- 11029 BADIN, E. J., and CALVIN, M. The path of carbon in photosynthesis. IX. Oak Ridge, Tenn., 1950. 20 p. (U. S. Atomic Energy Comm. UCRL-591)  
463.34 B14  
Also in *Amer. Chem. Soc. J.* 72:5266-5270. Nov. 1950. 381 Am33J
- 11030 BALLATORE, J. P. Contribution à l'étude de quelques stimulants hormonaux pour l'enracinement de boutures. *Fruits et Primeurs de l'Afrique du Nord. Ed. Marocaine* 20:305-308. Oct. 1950. 80 F9482
- 11031 BEAUCHAMP, C. E. Effects of 2,4-D on sugar content of sugar cane. *Sugar J.* 13(6):20-28, 30. (Concl.) Nov. 1950. 65.8 Su391
- 11032 BEILMANN, A. P. The bee in botany. *Mo. Bot. Gard. B.* 38:155-158. Nov. 1950. 451 M69B
- 11033 BILLINGS, W. D., and MORRIS, D. J. Reflection of visible and infrared radiation from leaves of different ecological groups. (Abs.) *Ecol. Soc. Amer. B.* 31:53. Sept. 1950. 410.9 Ec7
- 11034 BLAIR, B. O. Recent results of basic physiological studies of mesquite in the Southwest. *West. Weed Control Conf. Proc.* 12:104-113. 1950. 79.9 W52
- 11035 BLUMER, S., and KUNDERT, J. Über die aneurin-heterotrophie bei *Cylindrosporium padi* Karsten. *Schweiz. Z. f. Allg. Path. u. Bakt.* 13:580-586. 1950. 448.8 Sch9
- 11036 BOGEN, H. J. Kritische untersuchungen über permeabilitätsreihen. *Planta* 38:65-90. Ref. 1950. 450 P693
- 11037 BONNER, J. Climate and flowering of the Camellia. In *Southern California Camellia Society. Horticultural Research Committee. Camellia research*, p. 41-44. Pasadena, 1950. 97.31 So822
- 11038 BONNER, J., and HONDA, S. Effect of varying pH on growth of Camellia. In *Southern California Camellia Society. Horticultural Research Committee. Camellia research*, p. 25-27. Pasadena, 1950. 97.31 So822
- 11039 BONNER, J., and HONDA, S. Experiments on Camellia nutrition. In *Southern California Camellia Society. Horticultural Research Committee. Camellia research*, p. 15-21. Pasadena, 1950. 97.31 So822
- 11040 BONNER, J., and HONDA, S. Experiments on the metabolism of Camellia flowers in storage. In *Southern California Camellia Society. Horticultural Research Committee. Camellia research*, p. 48-54. Pasadena, 1950. 97.31 So822
- 11041 BONNER, J. Flower bud initiation and flower opening of the Camellia. In *Southern California Camellia Society. Horticultural Research Committee. Camellia research*, p. 34-40. Pasadena, 1950. 97.31 So822
- 11042 BONNER, J. The relation of organic matter to the growth of Camellia. In *Southern California Camellia Society. Horticultural Research Committee. Camellia research*, p. 22-24. Pasadena, 1950. 97.31 So822
- 11043 BONNET, J., and COPPENS, R. L'absorption des éléments nutritifs par le houblon. *Ann. de Gembloux* 56:193-200. Fourth Q. 1950. 13 G28
- 11044 BORZI, Z. Granulation in citrus fruit. (In Italian.) *Cong. Internat. de l'Agrumicult. Méditer.* Actes 1:61-67. Dec. 1949. 93.33 C762
- 11045 BOSSO, J. A. Comportamiento fenológico constante termica de siete lino oleaginosos en La Plata. *La Plata. U. Nac. Facul. de Agron. Rev.* 27:47-51. Dec. 1949. 9 R32
- 11046 BOVAY, E. Die mangelkrankheiten der obst-bäume in den Niederlanden. *Schweiz. Landwirt. Monatsh.* 28:325-342. Oct. 20, 1950. 17 Sch93
- 11047 BRAUER, I. Experimentelle untersuchungen an wurzelspitzenmitosen von *Vicia faba*. III. Einfluss der temperatur. *Planta* 38:91-118. Ref. 1950. 450 P693
- 11048 CANTINO, E. C. Nutrition and phylogeny in the water molds. *Q. Rev. Biol.* 25:269-277. Ref. Sept. 1950. 442.8 Q2

## PHYSIOLOGY

- 11023 AHMAD, S., and MUSAHIB-UD-DIN. Fruit bud differentiation studies in sour lime (*Citrus aurantifolia*) in the Punjab. *Punjab Fruit J.* 14(47):16. Jan. 1950. 80 P62
- 11024 AKHROMEÏKO, A. I. Role of mycorrhizas in the life of the forest. (In Russian.) *Lesn. Khoz.* 3(5):18-24. May 1950. 99.8 L562
- 11025 AMERICAN CHLOROPHYLL. Chlorophyll in 1950, by W. H. Eddy. Lake Worth, Fla., 1950. 32 p. 463.34 Am33



- 11049 CARLSON, M. C. Nodal adventitious roots in willow stems of different ages. *Amer. J. Bot.* 37:555-561. Ref. July 1950. 450 Am36
- 11050 CASTAGNOL, E. M., CHAVANCY, A., and BILLAUX, P. Étude des floraisons et fructifications des *Aleurites montana* et *fordii*. *Inst. des Rech. Agron. de l'Indochine. Arch.* 3,30 p. 1950. 22.5 Sa22
- 11051 CASTAGNOL, E. M. Influence du mouvement des solutions de sol sur le développement des plantes. *Inst. des Rech. Agron. de l'Indochine. Arch.* 2,25 p. 1950. 22.5 Sa22
- 11052 CECCARELLI, V. Significance of chemical analysis in determining damage to vegetation by emanations of industrial plants. (In Italian.) *Chim. e l'Indus.* 32:388-391. Aug. 1950. 385 G43
- 11053 CHAMPION, J. Les phytohormones et leurs applications. *Terre Maroc.* 24:357-369. (Concl.) Sept. 1950. 24 T44
- 11054 CHAO, T. T. Soil magnesium and its relationships to plant growth. (In Chinese.) *Taiwan Sugar J. Q.* 3:157-175. Ref. Aug. 1950. 65.8 T13  
English summary.
- 11055 CHAUGULE, B. A. Drought resistance in plants. *Poona Agr. Col. Mag.* 41:5-19. Ref. June 1950. 22 P79
- 11056 CHILEAN IODINE EDUCATIONAL BUR. Iodine and plant life; annotated bibliography, 1813-1949, with review of the literature. London, 1950. 114 p. 241.75 C43
- 11057 CHOWDHURY, H. P., and KAMAL, M. Effect of  $\beta$ -indol-3-acetic acid, phenoxy acetic acid and  $\beta$ -naphthoxy acetic acid on growth of *Alternaria tenuis*. *Cur. Sci.* 19:247-248. Aug. 1950. 475 Sci23
- 11058 CLAGUE-TAYLOR, M. Ultra-violet rays and Cacti. *Natl. Cactus & Succulent J.* 5:45. Sept. 1950. 450 N21
- 11059 COHEN, G. Injuries caused to plants by preparations of D-2,4 and agrozone. *Hassadeh* 30:592-593. July 1950. 26 H27  
In Hebrew.
- 11060 COOMBE, B. G. Artificial parthenocarpy in grape vines. *Austral. Inst. Agr. Sci. J.* 16:69-70. June 1950. 23 Au74
- 11061 CRAFTS, A. S. The physiology of weed control. *West. Weed Control Conf. Proc.* 12:61-68. 1950. 79.9 W52
- 11062 CRAFTS, A. S., CURRIER, H. B., and DAY, E. E. Response of several crop plants and weeds to maleic hydrazide. *Hilgardia* 20:57-80. July 1950. 100 C12H
- 11063 CURINI-GALLETTI, A. Preharvest drop of olives. (In Italian.) *Glor. di Agr.* 60:301. Sept. 24, 1950. 16 ItIG
- 11064 DADYKIN, V. P. Biological characteristics of plants of cold soils. (In Russian.) *Priroda* 39(5):21-29. May 1950. 410 P933  
Includes study of roots of potatoes, oats and barley.
- 11065 DAVIDSON, F. F. The effects of auxins on the growth of marine algae. *Amer. J. Bot.* 37:502-510. July 1950. 450 Am36
- 11066 DULANEY, E. L., and GRUTTER, F. H. A note on the culture of *Dipodascus uninucleatus* in defined media. *Mycologia* 42:654-657. Sept./Oct. 1950. 450 M99
- 11067 DUNN, D. B. "Smog" as a selective agent in speciation in *Lupinus*. (Abs.) *Ecol. Soc. Amer. B.* 31:58. Sept. 1950. 410.9 Ec7
- 11068 EAMES, A. J. Persistence of 2,4-D in plant tissues. *Science* 112:601-602. Nov. 17, 1950. 470 Sci2
- 11069 ELGABALY, M. M. Le potassium dans les sols et son rôle dans la nutrition des plantes. *Feuilles Agr.* 8:41-48. Jan./Mar. 1950. 24 F43
- 11070 ERICKSON, L. C., and BRANNAMAN, B. L. 2,4-D for preharvest drop of Washington Navel oranges. *Calif. Citrog.* 38:47,59-62. Dec. 1950. 80 C125
- 11071 FAGER, E. W., and ROSENBERG, J. L. Phosphoglyceric acid in photosynthesis. *Science* 112:617-618. Nov. 24, 1950. 470 Sci2  
*Scenedesmus obliquus* used in the experiment.
- 11072 FERRI, M. G., and CAMARGO, L. V. DE. Influence of growth substances on the movement of the pulvini of the primary leaves of bean plants. *Acad. Bras. de Cien. An.* 22:161-170. Ref. 1950. 516 R473A
- 11073 FLINT, E. A. The structure and development of the cotton fibre. *Cambridge Phil. Soc. Biol. Rev.* 25:414-434. Ref. Oct. 1950. 442.9 C14
- 11074 FRENCH, B. O. Tests with hormone sprays for control of pre-harvest drop in Pullars' cling peaches. *Agr. Gaz. N. S. Wales* 61:461-462. Sept. 1, 1950. 23 N472
- 11075 FRENKEL, A., GAFFRON, H., and BATTLEY, E. H. Photosynthesis and photoreduction by the blue green alga, *Synechococcus elongatus*. *Näg. Biol. B.* 99:157-162. Ref. Oct. 1950. 442.8 B52
- 11076 FUCHS. Zu den mangelkrankheiten bei pflanzen und tieren. *Landwirtsbl. Weser-Ems* 97:789-790. Sept. 21, 1950. 18 L2345
- 11077 FULTS, J. L., and others. Stabilization and intensification of red skin color in Red McClure potatoes by use of the sodium salt of 2,4-dichloro-phenoxyacetic acid. *Amer. Potato J.* 27:377-395. Ref. Nov. 1950. 75.8 P482  
L. A. Schaal, N. Landblom, and M. G. Payne, joint authors.
- 11078 GAUMANN, E., and JAAG, O. Bodenbewohnende algen als wuchsstoffspender für bodenbewohnende pflanzenpathogene pilze. *Phytopath. Z.* 17:218-228. Sept. 1950. 464.8 P562
- 11079 GAUMANN, E., NAEF-ROTH, S., and REUSSER, P. Über die inaktivierung von lycopersin durch streptogenin. *Phytopath. Z.* 17:229-232. Ref. Sept. 1950. 464.8 P562
- 11080 GELLERMAN, I. A. M. Effect of decomposition products of organic matter on root nutrition of plants. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:593-596. July 21, 1950. 511 P444A  
Experiments with oats.
- 11081 GHOSH, B. N. Physiological studies on the effect of colchicine on rice. II. *Natl. Inst. Sci. India. Proc.* 16:135-145. Ref. May/June 1950. 513 N212
- 11082 GIBSON, P. B., BRINK, R. A., and STAHMANN, M. A. The mutagenic action of mustard gas on *Zea mays*. *J. Hered.* 41:232-238. Sept. 1950. 442.8 Am3
- 11083 GILMORE, A. E. A technique for embryo culture of peaches. *Hilgardia* 20:147-170. Ref. Sept. 1950. 100 C12H
- 11084 GLERUM, J. A., and PLASSE, J. B. V. D. The scald problem. (In Dutch.) *Fruitteelt* 40:761. Oct. 5, 1950. 86 N28  
Apples and pears.
- 11085 GLUBRECHT, H. Quantitative messungen in bestrahlten pflanzenzellen. (Sum.) *Angew. Chem.* 62:412. Sept. 7, 1950. 384 Z33
- 11086 GORIS, A. Influence comparée de l'acide indole-acétique et du lait de coco sur les réserves glucidiques de souches de tissu de carotte. *Paris. Acad. des Sci. Compt. Rend.* 231:870-872. Oct. 23, 1950. 505 P21
- 11087 GORTON, G. R. Fumigation tests on *Camellia* scions. In Southern California *Camellia* Society. Horticultural Research Committee. *Camellia research*, p. 74-75. Pasadena, 1950. 97.31 S822
- 11088 HARDING, P. L. The effect of oil and of parathion sprays on the quality of early oranges. *Citrus Indus.* 31(11):12. Nov. 1950. 80 C49
- 11089 HARRIS, W. B. Growth responses with chlorophenoxyacetic acids in Smyrna figs. *Austral. Inst. Agr. Sci. J.* 16:71-72. June 1950. 23 Au74
- 11090 HARTMANN, H. T. Olive flower-bud formation; nutrients essential to tree during March and April when flower-buds are forming tests show. *Calif. Agr. [Calif. Sta.]* 4(11):4-5, 16. Nov. 1950. 100 C12Cag
- 11091 HEIMANN, M. Einfluss periodischer beleuchtung auf die gattungsrythmik. (Untersuchungen an *Kalanchoë blossfeldiana*.) *Planta* 38:157-195. Ref. 1950. 450 P693
- 11092 HEWITT, E. J. Foliar diagnosis and plant nutrient requirements. *World Crops* 2:455-459. Ref. Nov. 1950. 281.8 W892
- 11093 HOFFPAUIR, C. L. Germination and free fatty acids in seed stock lots of cottonseed. *Cotton Digest* 23(7):28. Nov. 4, 1950. 286.82 C822
- 11094 IUNOVDOV, A. P. Biology of pine [*Pinus*]. (In Russian.) *Iesn. Khoz.* 3(5):31-33. May 1950. 99.8 L562
- 11095 IVANOV, L. A., SILINA, A. A., and TSEL'NIKER, I. U. L. Rapid method of weighing [plants] for determining transpiration under natural conditions. (In Russian.) *Bot. Zhur.* 35:171-185. Ref. Mar./Apr. 1950. 451 R923
- 11096 JACOBS, W. P. Control of elongation in the bean hypocotyl by the ability of the hypocotyl tip to transport auxin. *Amer. J. Bot.* 37:551-555. Ref. July 1950. 450 Am36



- 11097 JACQUIOT, C. Contribution à l'étude des facteurs déterminant le cycle d'activité du cambium chez quelques arbres forestiers. *Rev. Forest. Franç.* 1950:605-610. Ref. Nov.1950. 99.8 R329
- 11098 KALINKEVICH, A. F. Reasons for the dying off of clovers. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:1259-1261. Aug.21,1950. 511 P444A
- Nutrition deficiency.
- 11099 KAPLAN, R. Phytodynamische auslösung von mutationen in den sporen von *Penicillium notatum*. *Planta* 38:1-11. Ref. 1950. 450 P693
- 11100 KEENER, P. D. Mycoflora of buds. I. Results of cultures from non-irradiated materials of certain woody plants. *Amer. J. Bot.* 37:520-527. Ref. July 1950. 450 Am36
- 11101 KISSER, J. Grundlagen und wesen der erdlosen pflanzenkultur (hydroponik). *Lebensmittel u. Konserv.* 1950(5):3-5. May 1950. 389.8 L492
- 11102 KNOOP, F. Tissue testing; a quick, easy way has been developed to test growing plants in time to do something about it. *Farm Q.* 5(4):60-61,90-92. Winter 1951. 6 F22995
- Testing for mineral deficiencies.
- 11103 KONOVALOV, I. N. Growth peculiarities of some southern plants in connection with their acclimatization. (In Russian.) *Priroda* 39(5):56-57. Ref. May 1950. 410 P933
- Observations on Persian walnut chiefly.
- 11104 KRAMER, P. J. The relation of environment and physiology to tree growth. *Arborist's News* 15:107-111. Sept.1950. 99.8 Ar14
- 11105 KRETVOICH, V. L., and others. Investigation of *Euonymus verrucosus* seed germination. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:527-530. July 21,1950. 511 P444A
- T. I. Smirnova, A. A. Bundel', and S. S. Pechnikova, joint authors.
- 11106 KRUZILIN, A. S., and ZAURALOV, O. A. Transpiration in heat resistant cabbage varieties. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:1295-1296. Aug.21, 1950. 511 P444A
- 11107 KUNNING, H. Untersuchungen über die wirkstoffregulation der kambiumtätigkeit. *Planta* 38:36-64. Ref. 1950. 450 P693
- 11108 LAKSHMIKANTA, S. R., and GOVINDARAJAN, S. V. Sensitivity of patchouli [*Pogastemon patchouli*] to manganese deficiency in soils. *Cur. Sci.* 19:280-281. Sept.1950. 475 Sci23
- 11109 LAMMERTS, W. E. The effect of continuous light, high nutrient level and temperature on flowering of *Camellia* hybrids. In *Southern California Camellia Society. Horticultural Research Committee. Camellia research*, p.31-33. Pasadena,1950. 97.31 So822
- 11110 LANSKAJA, L. A., and SIVKOV, S. I. Relationship between the rates of development of marine diatom cultures and amounts of radiation. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:581-584. July 21,1950. 511 P444A
- 11111 LAWRENCE, D. B., and HULBERT, L. Growth stimulation of adjacent plants by lupine and alder on recent glacier deposits in southeastern Alaska. (Abs.) *Ecol. Soc. Amer. B.* 31:58. Sept.1950. 410.9 Ec7
- 11112 LEBEDEV, D. V. Culture of excised tomatoes. (In Russian.) *Priroda* 39(6):78-79. June 1950. 410 P933
- 11113 LEBEDEV, D. V. Mycorrhiza and the absorption of radioactive phosphorus. (In Russian.) *Priroda* 39(6):79-80. June 1950. 410 P933
- Experiments with *Pinus taeda* and *P. resinosa*.
- 11114 LEE, A. E. The influence of various sugars on the growth in culture of intact seedlings and isolated seedling organs. *Amer. J. Bot.* 37:528-533. Ref. July 1950. 450 Am36
- 11115 LEONT'EV, V. L. Unusual blooming of *Daphne mezereum*. (In Russian.) *Priroda* 39(6):78. June 1950. 410 P933
- 11116 LYSENKO, T. D. *Iarovizatsiia farovol pshe-nitsy, fakhmenia i ovsy* [Yarovization of spring wheat, barley and oats]. Minsk,Gos. Izd-vo BSSR,1950. 19 p. 463.36 L991
- 11117 MACINTIRE, W. H., and others. Fluorine content of red clover after applications of hydrofluoric acid on two soils. (Abs.) *Amer. Fert. & Allied Chem.* 113(7):28. Sept.30,1950. 57.8 Am3
- S. H. Winterberg, L. B. Clements, L. J. Hardin, and L. S. Jones, joint authors.
- 11118 MAGROU, J., and MARIAT, F. Action des sucres et des vitamines sur le mode de végétation du *Poa annua* L. en culture aseptique. *Paris. Acad. des Sci. Compt. Rend.* 231:742-744. Oct.16,1950. 505 P21
- 11119 MANTON, I. The spiral structure of chromosomes. *Cambridge Phil. Soc. Biol. Rev.* 25:486-508. Ref. Oct.1950. 442.9 C14
- Plants.
- 11120 MARSDEN, D. H. Dry weather and tree troubles in Massachusetts. *Plant Dis. Rptr.* 34:400-401. Dec.15,1950. 1.9 P69P
- 11121 MATTHEWS, G. D. Tree fruits. *West. Canad. Soc. Hort. Rpt. Proc.* 6:34-37. 1950. 82 W522
- Effect of temperature on winter hardiness.
- 11122 MAUME, L., and DULAC, J. Sur quelques principes de biochimie et leur application à l'estimation de la valeur alimentaire d'un milieu cultivé pour une plante donnée. *Paris. Acad. des Sci. Compt. Rend.* 231:915-916. Oct.30,1950. 505 P21
- 11123 MOEWUS, F. Über die physiologischen und biochemischen Grundlagen der selbststerilität bei *For-sythia*. *Forsch. u. Fortschr.* 26:101-102. Apr.1950. 474 F772
- 11124 MONTFORT, C., and HAHN, H. Atmung und assimilation als dynamische kennzeichen abgestufter trockenresistenz bei farnen und höheren pflanzen. *Planta* 38:503-515. 1950. 450 P693
- 11125 MONTFORT, C. Beziehungen zwischen der mächtigkeit des cuticularen haufilters und der relativen depression des chlorophyllspiegels in stark besonnenen gewebe. *Planta* 38:499-502. 1950. 450 P693
- 11126 MONTFORT, C., and KRESS-RICHTER, I. Reversible photochemische chlorophyllzerstörungen in besonnenen laubblättern von aureiformen und ihre beziehungen zu strahlungsklima und erbgut. *Planta* 38:516-521. Ref. 1950. 450 P693
- 11127 MONTFORT, C. Zur frage der atmungssteigerung grüner laubblätter durch ultraviolettreiche strahlung. *Planta* 38:119-122. 1950. 450 P693
- 11128 MORGEN, A. Wie kann man das wachstum der pflanzen kontrollieren? *Umschau* 50:592-593. Oct.1, 1950. 474 Um7
- 11129 NARAYANASWAMI, S. The occurrence of a velamen and mycorrhiza in the subterranean roots of the orchid *Spiranthes australis* Lindl. *Cur. Sci.* 19:250-251. Aug.1950. 475 Sci23
- 11130 NELSON, K. S. Gardenia bud drop. *Florists Rev.* 107(2766):28. Nov.30,1950. 80 W41
- 11131 NICKELL, L. G., and BURKHOLDER, P. R. Atypical growth of plants. II. Growth in vitro of virus tumors of *Rumex* in relation to temperature, pH, and various sources of nitrogen, carbon, and sulfur. *Amer. J. Bot.* 37:538-547. Ref. July 1950. 450 Am36
- 11132 NIKITIN, A. A. Trace elements put the "finger" on plant health; use seeds as storage vaults. *South. Seedsman* 13(11):13,52,62. Nov.1950. 61.8 So8
- 11133 NYSTERAKIS, F. Filamentation des cellules néoformées sur des fragments de tiges l'*Aucuba japonica* cultivés in vitro. *Paris. Acad. des Sci. Compt. Rend.* 231:986-988. Nov.6,1950. 505 P21
- 11134 OFFE, H. A. Neue pflanzenwuchs- und hemmstoffe. (Abs.) *Angew. Chem.* 62:453. Oct.7,1950. 384 Z33
- 11135 PAGE, R. M. Observations on keratin digestion by *Microsporum gypsum*. *Mycologia* 42:591-602. Ref. Sept./Oct.1950. 450 M99
- 11136 PANELLA, A. Preliminary observations on the use of 2,4-D as growth regulator after topping of tobacco. (In Italian.) *Tabacco* 54:243-251. Aug.1950. 69.8 T115
- 11137 PARKER, M. W., BORTHWICK, H. A., and RAPPLEYE, L. E. Photoperiodic responses of poinsettia. *Florists' Exch.* 115(20):11,49-50. Nov.11,1950. 80 F666
- 11138 PECHENITSINA, A. M. Role of carbohydrates in conversions of nitrogenous substances in higher plants. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:597-600. July 21,1950. 511 P444A
- Experiments with onions and potatoes.
- 11139 PECHENITSINA, A. M. Sterile [water] cultures of higher plants under conditions of heterotrophic nutrition. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:1297-1300. Ref. Aug.21,1950. 511 P444A
- Experiments with buckwheat and radish sprouts.



- 11140 PETERS, B. The influence of some inorganic ions on the growth of *Enteromorpha intestinalis*. Göteborg. Bot. Trädgård. Meddel. (1948)18:1-14. Ref. 1950. 451 G712
- 11141 PETRUCCI, D. Studies on the effect of vernalization on the metabolism of *Triticum vulgare*. (In Italian.) Accad. Naz. dei Lincei. Cl. di Sci. Fis. Mat. e Nat. Atti. Rend. 6:742-747. June 1949. 507 R66
- 11142 PICHLER, F. Untersuchungen über magnesiumstaubschäden an pflanzen im laboratorium. Pflanzenschutzberichte 4:169-179. June 1950. 464.9 P48  
English summary.  
Industrial fumes.
- 11143 PICKETT, R. C. Effects of an azobenzene product on sorghums. Agron. J. 42:574-575. Nov.1950. 4 Am34P
- 11144 PIRSON, A., and SEIDEL, F. Zell- und stoffwechselphysiologische untersuchungen an der wurzel von *Lemna minor* L. unter besonderer berücksichtigung von kalium- und kalziummangel. Planta 38:431-473. Ref. 1950. 450 P693
- 11145 POWERS, W. J. Flowers. Atlantic Co. Vocat. B. 25, i.e.30(3):3-4. Dec.1950. 6 At62  
Transpiration and photosynthesis.
- 11146 RAVEUX, R. Conditions physiologiques pour la production d'éthanol par *Sterigmatocystis nigra*. Paris. Acad. des Sci. Compt. Rend. 231:729-731. Oct.9, 1950. 505 P21
- 11147 RAVEUX, R. Influence des oligoéléments sur la production d'éthanol par *Sterigmatocystis nigra* et *Aspergillus flavus*. Paris. Acad. des Sci. Compt. Rend. 231:1006-1008. Nov.8,1950. 505 P21
- 11148 RYAN, F. J. Signification des mutants pour l'étude du métabolisme de la fermentation. Schweiz. Z. f. Allg. Path. u. Bakt. 13:653-671. Ref. 1950. 448.8 Sch9  
Neurospora used in the study.
- 11149 SAH, P. P. T., and DUFRENOY, J. Suppression du gradient physiologique des boutures sous l'influence de la cétone dibenzylque de la thiosemicarbazone. Paris. Acad. des Sci. Compt. Rend. 231:665-666. Oct.2, 1950. 505 P21  
Experiments with grapes.
- 11150 SCHMEHL, W. R., PEECH, M., and BRADFIELD, R. Causes of poor growth of plants on acid soils and beneficial effects of liming. I. Evaluation of factors responsible for acid-soil injury. Soil Sci. 70:393-410. Ref. Nov.1950. 56.8 So3
- 11151 SCIAIONI, R. H., and ZENTMYER, G. A. Control of chlorosis in heather. Plant Dis. Rptr. 34:402. Dec.15,1950. 1.9 P69P  
Erica.
- 11152 SKAZKIN, F. D. Teoriia stadiynogo razvitiia rastenii Akademika T. D. Lysenko [Academician T. D. Lysenko's theory of phasic development of plants]. Moskva, Akademiia Pedagogicheskikh Nauk RSFSR, 1950. 73 p. (Pedagogicheskaiia Biblioteka Uchitelii) 463.3 Sk1T
- 11153 SKINNER, H. T. How your plants behave in sunlight and shade. Horticulture 28:376-377. Oct.1950. 80 H787
- 11154 SMOL'IANINOVA, N. K. On change in raspberry varieties. (In Russian.) Sad i Ogorod 1950(8):53-56. Aug.1950. 80 Sa13  
Possibly due to a degenerative disease.
- 11155 SRB, A. M., FINCHAM, J. R. S., and BONNER, D. Evidence from gene mutations in *Neurospora* for close metabolic relationships among ornithine, proline, and  $\alpha$ -amino- $\delta$ -hydroxy valeric acid. Amer. J. Bot. 37: 533-538. Ref. July 1950. 450 Am36
- 11156 STEINBERG, R. A. Flowering responses of a variety of *Nicotiana rustica* to organic compounds in aseptic culture. Amer. J. Bot. 37:547-551. Ref. July 1950. 450 Am36
- 11157 STEVENSON, F. J., and EDMUNDSON, W. C. Storage of potato seeds. Amer. Potato J. 27:408-411. Nov.1950. 75.8 P482
- 11158 STILES, W. An introduction to the principles of plant physiology. Ed. 2, rev. London, Methuen, 1950. 701 p. 463.3 St5
- 11159 STOY, O. Deficiency diseases of fruit trees. (In Swedish.) Sveriges Pomol. För. Fruktodlaren 1950: 145-148. 86 Sv2F
- 11160 STRELL, M. Neue arbeiten auf dem chlorophyllgebiet. (Abs.) Angew. Chem. 62:452. Oct.7,1950. 384 Z33
- 11161 STROGONOV, B. P. Growth stimulators as a measure for control of preharvest drop of apples and pears. (In Russian.) Akad. Nauk SSSR. Dok. 73:601-604. Ref. July 21,1950. 511 P444A
- 11162 SUBRAMANYAM, K. Anthesis in *Cajanus indicus* Spreng. Cur. Sci. 19:215. July 1950. 475 Sci23
- 11163 TAMM, E. Über beziehungen zwischen witterungsverlauf und ertragsleistung bei landwirtschaftlichen kulturpflanzen im land Brandenburg. Z. f. Acker- u. Pflanzenbau 92:450-465. Sept.1950. 18 J825
- 11164 THOMAS, M. D., HENDRICKS, R. H., and HILL, G. R. Sulfur metabolism of plants; effects of sulfur dioxide on vegetation. Indus. & Engin. Chem. 42:2231-2235. Ref. Nov.1950. 381 J825
- 11165 THOMPSON, F. C., CRIPPS, E. G., and BURGESS, A. H. The effect of soil acidity on growth of hops; some observations on manganese toxicity and induced iron deficiency. Wye Col. Dept. Hop Res. Rpt. 1949:43-47. May 1950. 70.9 W972
- 11166 THOMSON, B. F. Mysteries of the plant world. (Condensed.) Sci. Digest 29:83-86. Jan.1951. 470 Sci27  
Plant hormones.
- 11167 TIZIO, R. Acción del ácido 2,4-diclorofenoxiacético sobre los procesos de maduración de bananas bajo diferentes períodos de exposición a luz y oscuridad. La Plata. U. Nac. Facul. de Agron. Lab. de Bot. B. 1:1. Apr. 1950. 451 L312
- 11168 TREIBS, A. Synthetische arbeiten auf dem chlorophyllgebiet. (Abs.) Angew. Chem. 62:452. Oct.7,1950. 384 Z33
- 11169 VENKATARAMNAM, L., and SATYANARAYAN-MURTHY, K. Some reactions induced by 2, 3, 5 triiodobenzoic acid on chillies—*Capsicum annum* L. Cur. Sci. 19:253-254. Aug.1950. 475 Sci23
- 11170 VERVELDE, G. J. Loss of dry matter in the seed of grains during the ripening and after-ripening period. (In Dutch.) Landbk. Tijdschr. 62:628-636. Ref. Aug.1950. 105.2 Or3  
English summary.
- 11171 VLIET, M. VAN DER. Splitting of tomatoes. (In Dutch.) Boer en Tuinder 4(191):4. Sept.16,1950. 12 B632
- 11172 WADE, G. C. Potato fire blight. Tasmanian J. Agr. 21:211-215. Aug.1950. 23 T182T  
A nutrition deficiency.
- 11173 WATSON, D. J. Inflammability of cereal crops in relation to water-content. Empire J. Expt. Agr. 18:150-162. July 1950. 10 Em7
- 11174 WILLSON, A. E. Volumetric determination of calcium and magnesium in leaf tissue. Analyst. Chem. 22: 1571-1572. Dec.1950. 381 J825A
- 11175 WILSON, G. B. Cytological effects of some antibiotics. J. Hered. 41:227-231. Ref. Sept.1950. 442.8 Am3  
Effects on onion root tip.
- 11176 WINTER, G. Symbiose und parasitismus im pflanzenreich. Kosmos 46:442-447. Oct.1950. 474 K842
- 11177 WYKES, G. R. Nectar secretion researches. Australas. Beekeeper 52:67-68. Aug.15,1950. 424.8 Au72
- 11178 WYMAN, D. Fruiting habits of certain ornamental plants. Arnoldia 10:81-85. Dec.8,1950. 451 Ar6Ba
- 11179 YOUNG, D. W., and FISHER, C. E. Factors affecting the absorption and translocation of herbicides in mesquite (*Prosopis juliflora*). West. Weed Control Conf. Proc. 12:41-48. 1950. 79.9 W52
- 11180 ZIEGLER, H. Inversion phototropischer reaktionen. Planta 38:474-498. Ref. 1950. 450 P693

## BIOCHEMISTRY

- 11181 ANDRÉ, É., and DELAVEAU, P. Recherches chimiques sur la composition des essences de colza. Paris. Acad. des Sci. Compt. Rend. 231:872-874. Oct.23, 1950. 505 P21
- 11182 ANHEUSER-BUSCH. Yeast in biochemical research; the nucleic acids and nucleoproteins. Anheuser-Busch. Dried Yeasts & Derivatives Dept. Yeast 1(4), 20 p. Ref. Sept.1950. 390.09 An4



- 11183 ARONOFF, S., and VERNON, L. P. Metabolism of soybean leaves. I. The sequence of formation of the soluble carbohydrates during photosynthesis. Arch. Biochem. 28:424-439. Ref. Oct.1950. 381 Ar2  
Tests with radioactive carbon dioxide.
- 11194 BANDLOW, G. Neurospora-mutanten als biochemische teste. Forsch. u. Fortschr. 25:265-267. Nov.1949. 474 F772
- 11185 BARRON, E. S. G., and others. The metabolism of potato slices. Arch. Biochem. 28:377-398. Ref. Oct.1950. 381 Ar2  
G. K. K. Link, R. M. Klein, and B. E. Michel, joint authors.
- 11186 BHASIN, M. M., GUPTA, A. S., and AGGARWAL, J. S. Chemical examination of the seeds of Cucumis utilisissimus Roxb. J. Sci. & Indus. Res. 9B:230-234. Ref. Sept.1950. 475 J82
- 11187 BOEKENOGEN, H. A. The carotene content of the fruit of Momordica cochinchinensis Spreng. Philippine J. Sci. 78:299-300. Sept.1949. 475 P53
- 11188 BUZOVER, F. I. A. Effect of potassium on invertase activity in potato leaves. (In Russian.) Akad. Nauk SSSR. Dok. 73:1291-1293. Ref. Aug.21,1950. 511 P444A
- 11189 COKER, J. N. The properties of some lichen and fungus pigments. Urbana, 1950. 7 p. 463.2 C66  
Abstract of thesis - University of Illinois.
- 11190 DAGLISH, C. The determination and occurrence of a hydrojuglone glucoside in the walnut. Biochem. J. 47:458-462. Oct.1950. 382 B52
- 11191 DAGLISH, C. The identification of the 'apparent vitamin C' of the walnut (Juglans regia) with hydrojuglone glucoside. Biochem. J. 47:462-466. Oct.1950. 382 B52
- 11192 DAGLISH, C. The isolation and identification of a hydrojuglone glycoside occurring in the walnut. Biochem. J. 47:452-457. Ref. Oct.1950. 382 B52
- 11193 DEDONDER, R., and BUVRY, C. Les glucides du topinambour. III. Données sur leur synthèse biologique. Paris. Acad. des Sci. Compt. Rend. 231:790-792. Oct.16, 1950. 505 P21
- 11194 DEVIÁTNIN, V. A. On parent substances for biosynthesis of ascorbic acid in plants. (In Russian.) Biokhimič 15:325-329. July/Aug.1950. 385 B523
- 11195 DZHEMUKHADZE, K. M. Effect of growth conditions of tea plant on tannin content in green leaves. (In Russian.) Akad. Nauk SSSR. Izv. Ser. Biol. 1950(3):58-68. Ref. May/June 1950. 511 Sa2B
- 11196 FOX, A. S., and GRAY, W. D. Immunogenetic and biochemical studies of Neurospora crassa: differences in tyrosinase activity between mating types of strain 15300 (albino-2). Natl. Acad. Sci. Proc. 36:538-546. Ref. Oct.1950. 500 N21P
- 11197 GOOD, N., HEILBRONNER, R., and MITCHELL, H. K.  $\epsilon$ -hydroxynorleucine as a substitute for lysine for Neurospora. Arch. Biochem. 28:464-465. Oct.1950. 381 Ar2
- 11198 GOVINDARAJAN, V. S., and SREENIVASAYA, M. A papyrographic study of the nonprotein nitrogen of mangoes (Mangifera indica Linn.). Cur. Sci. 19:234-236. Aug.1950. 475 Sc123
- 11199 HALL, M. T. Nature's paints and palette. Cranbrook Inst. Sci. News Let. 20:28-30. Nov.1950. 410.9 C85N  
Plant pigments.
- 11200 HAMET, R. Les alcaloïdes du Mitragna speciosa Korthals. Ann. Pharm. Franç. 8:482-490. June 1950. 396.8 An7
- 11201 HOBSON, P. N., WHELAN, W. J., and PEAT, S. A 'de-branching' enzyme in bean and potato. Biochem. J. 47:xxxix. Oct.1950. 382 B52
- 11202 KLEEFELD, C. Gedanken zur pektinbestimmung. Zucker 3:345-347. Aug.15,1950. 65.8 Z82  
In plants.
- 11203 KOLESNIKOV, P. A. On some oxidation-reduction reactions in a suspension of chloroplasts and chlorophyll granules. (In Russian.) Akad. Nauk SSSR. Izv. Ser. Biol. 1950(4):87-99. Ref. July/Aug.1950. 511 Sa2B
- 11204 KRASNOVSKIĬ, A. A., and BRIN, G. P. Reactions of a photo-reduced form of chlorophyll. (In Russian.) Akad. Nauk SSSR. Dok. 73:1239-1242. Ref. Aug.21,1950. 511 P444A
- 11205 LINDEBERG, G. Phenol oxidases of the cultivated mushroom Psalliota bispora f. albida. Nature [London] 166:739. Oct.28,1950. 472 N21
- 11206 MASSIEU H., G., and others. Contenido en aminoácidos indispensables en algunas semillas mexicanas. Ciencia 10:142-144. Ref. Aug.5,1950. 475 C48  
English summary.  
J. Guzman G., R. O. Cravito, J. Calvo de la Torre, joint authors.
- 11207 MAVLIÁNOV, I. M. Ascorbic acid in the leaves and berries of Samarkand oasis grapes. (In Russian.) Priroda 39(6):70-72. June 1950. 410 P933
- 11208 MEYER, E. Über den wuchsstoff-hemmstoffgehalt gesunder und abbaukranker kartoffelknollen. Planta 38:213-232. Ref. 1950. 450 P693
- 11209 MILLER, L. P. Formation of metal sulfides through the activities of sulfate-reducing bacteria. Boyce Thompson Inst. Contrib. 16:85-89. July/Sept.1950. 451 B69
- 11210 MILLER, L. P. Tolerance of sulfate-reducing bacteria to hydrogen sulfide. Boyce Thompson Inst. Contrib. 16:73-83. July/Sept.1950. 451 B69
- 11211 PICKETT, R. C. Variability of crude protein and carotene contents and their relations with other characters in bromegrass, Bromus inermis Leyss. Agron. J. 42:550-554. Nov.1950. 4 Am34P
- 11212 PORTER, H. K. The inhibition of plant phosphorylases by  $\alpha$ -amylase and the detection of phosphorylase in barley. Biochem. J. 47:476-482. Ref. Oct.1950. 382 B52
- 11213 SANNIE, C. Sur la composition d'une algue des fles Kerguelen Macrocyctis pyrifera(L.) AG. Paris. Acad. des Sci. Compt. Rend. 231:874-876. Oct.23,1950. 505 P21
- 11214 SOKOLOV, V. S. Some problems on the alkaloid content in plants. (In Russian.) Bot. Zhur. 35:206-207. Mar./Apr.1950. 451 R923
- 11215 SOSA-BOURDOUIL, C. Nouvelles remarques sur la composition du pollen chez quelques Renonculacées. Paris. Acad. des Sci. Compt. Rend. 231:990-992. Nov.6,1950. 505 P21
- 11216 TRACEY, M. V. Cellulase from leaves and roots of tobacco. Biochem. J. 47:431-433. Oct.1950. 382 B52
- 11217 UTKIN, L. M. Homogentistic acid in metabolism of molds. (In Russian.) Biokhimič 15:330-333. Ref. July/Aug.1950. 385 B523  
Experiments with Aspergillus and Penicillium strains.
- 11218 VERNON, L. P., and ARONOFF, S. Metabolism of soybean leaves. II. Amino acids formed during short-term photosynthesis. Arch. Biochem. 29:179-186. Nov.1950. 381 Ar2
- 11219 VLASŮK, P. A., and KLIMOVITŠKAĬA, Z. M. Dynamics of carbohydrates, nitrogenous substances and enzymatic activity in connection with conditions of plant nutrition in the [sugar] beet grass-field crop rotation. (In Russian.) Akad. Nauk SSSR. Izv. Ser. Biol. 1950(3):43-57. Ref. May/June 1950. 511 Sa2B

## FIELD CROPS

Includes articles on general agronomy and on crop varieties, breeding, cultural practices, and yield.

## General

- 11220 BAIRD, E. W. The commercial production of green manure seed in the Cairns hinterland. Queensland Agr. J. 71:143-153. Sept.1950. 23 Q33  
Legume varieties.
- 11221 BOGUSLAWSKI, E. VON. Zur auswertung von sortenversuchen und ähnlichen versuchsfagen. Z. f. Acker- u. Pflanzenbau 92:397-415. Sept.1950. 18 J825
- 11222 BUSHINSKIĬ, V. P., ed. V. R. Vil'iams; izbranye sochineniia [V. R. Vil'iams; selected works]. Ed. 2. Moskva, Moskovskii Rabochii, 1950. 459 p. 33.31 B96  
Agronomy.
- 11223 CHEKHOVSKIĬ, A., and MAL'ŤSEV, A. In the steppe. (In Russian.) Molod. Kolkhoz. 17(7):16-21. July 1950. 110 M73  
Effect of crop rotation system of agriculture on crop yields at Stalin Kolkhoz in Salsk Steppe.
- 11224 DEISSMANN, W. Wie soll ich säen und düngen? Berlin, Parey, 1950. 124 p. 64 D362  
Field crops.
- 11225 FLÜCKIGER, E. Erfahrungen im anbau und mit der verfütterung von ackerbohnen. Grüne 78:998-1001. Sept.8,1950. 17 Sch9



- 11226 FRANZ, G. Die fruchtfolge als helfer. Deut. Landwirt. Presse 73(19):4. Sept. 9, 1950. 18 D482
- 11227 FRASER, J. G. C. Survey of progress in the improvement of elite and foundation seed stocks. Canad. Seed Growers' Assoc. Annu. Rpt. 1949/50:20-24. 1950. 61.9 C16
- 11228 GAUL. Winterzwischenfutter bringt sichere erträge. Bad. Landwirt. Wchnbl. 117:563. Aug. 19, 1950. 18 B142
- 11229 GROKHOVSKIY, M. I. Introduction of grass-field crop rotation system of agriculture in Malin District, Moscow Region. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 11:71-73. 1949. 20 M857
- 11230 HOPKINS, J. S. Autumn cropping. Worcester-shire Agr. Chron. 18:297,299,301,303. Aug./Oct. 1950. 10 W892
- Field crop cultivation and varieties.
- 11231 HORNE, F. R. Better seeds: better crops. Inst. Corn & Agr. Merchants. J. 2:177-185. Autumn 1950. 10 In7
- Includes discussion.
- 11232 INGLIS, H. A. Seed crops for the new South. Crops & Soils 3(2):20-22. Nov. 1950. 6 W55
- 11233 KANSAS CROP IMPROVEMENT ASSOCIATION. Kansas certified seed directory. Manhattan, Kans., 1950. 96 p. 61.9 K132
- Field crops.
- 11234 KOBE. Fruchtfolge für grünlandarme rüben-bauwirtschaften. Hannoversche Land- u. Forstwirt. Ztg. 103:797. Sept. 9, 1950. 18 H194
- 11235 KONEV, V. N. Osnovy kuz'turtekhniki [Prin-ciples of agronomy]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 380 p. (Uchebniki i Uchebnye Posobiya dlya Sel'skokhoziaistvennykh Tekhnikumov) 33.31 K836
- 11236 LYSENKO, T. D. Ob agronomicheskomo uchenii V. R. Vil'iamsa [On the agronomical teaching of V. R. Vil'iams]. Moskva, Pravda, 1950. 33.31 L990
- 11237 MEIMBERG, P. Saatgutvermehrung. Landwirt. Informdienst. 1950(6/7):1-3. 18 L2312
- Germany.
- 11238 MEYER, K. Zur frage der leistung und des ausbaus unseres sortenversuchswesens. Z. f. Acker- u. Pflanzenbau 92:416-430. Sept. 1950. 18 J825
- Germany.
- 11239 MILLOT, P. Les sciences agronomiques existent-elles? Cahiers des Ingén. Agron. 6:7-9. Second Q. 1950. 14 C112
- 11240 MINNESOTA CROP IMPROVEMENT ASSOCIA-TION. Fall seed directory, 1950. n.p., 1950. 47 p. 61.9 M66F
- 11241 MYSORE. DEPT. OF AGRICULTURE. BOTANICAL SECT. A brief note on some of the im-proved varieties of farm crops. Mysore Agr. Calendar 1949/50:46-51. 1949. 34.2 M99
- 11242 NOVSKOV, F. V. Opyt vvedeniia i osvoeniia travopol'nykh sevooborotov v kolkhozakh Voronezhskoi oblasti [Practices in introducing and adapting grass-field crop rotations on the collective farms in Voronezh Re-gion]. Voronezh, Voronezhskoe Obl. Kn-vo, 1950. 86 p. 33.31 N853
- 11243 OLTHOFF, B. H. Danger of cross pollination of Brassica. (In Dutch.) Zaadbelangen 4:433-434. July 31, 1950. 61.8 Z1
- 11244 PEDERSEN, A. Cultivation in Denmark of beets rich in dry matter. Food & Agr. 3:141-143. July/Sept. 1950. 389.8 F7326
- 11245 PINI, P. L. Agronomy problems in land re-form in central Italy. (In Italian.) Humus 6(8):3-6. Aug. 1950. 16 H88
- 11246 PRAKSIN, S. S. Obraztsovo provesti vesenniy sev [Exemplary performance of spring sowing]. Moskva Moskovskii Rabochii, 1950. 54 p. 64 P88
- Field crops.
- 11247 ROSENSTIEL, K. VON. Ist saatgutwechsel noch zeitgemäss? Deut. Landwirt. Presse 73(19):2. Sept. 9, 1950. 18 D482
- 11248 SHAW, B. T. Crop research, today and to-morrow. Crops & Soils 3(2):7-9, 29. Nov. 1950. 6 W55
- 11249 SNIDER, H. J. Legumes—a "must" in rota-tion. Hoard's Dairymen 95:794. Nov. 10, 1950. 44.8 H65
- 11250 STIVER, E. N., COLLIER, J. W., and JOHNS-TON, J. R. Crop variety tests at the Blackland Experi-ment Station, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1281, 6 p. Oct. 6, 1950. 100T31P
- 11251 VIL'JAMS, V. R. Otravopol'noi sisteme zemledeliia [On the crop rotation system of agriculture]. Barnaul, Altaiskoe Kraevoe Izd-vo, 1950. 54 p. (Biblio-techka Michurinska) 33.31 V710
- 11252 VITKEVICH, V. I. On shading one row of plants by another. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 11:86-96. 1949. 20 M857
- Effect of direction of planting on yields of field crops.
- 11253 WEISE, F. Über die möglichkeiten einer leistungssteigerung des futterbaues in heidebetrieben. Z. f. Acker- u. Pflanzenbau 92:466-497. Ref. Sept. 1950. 18 J825
- 11254 WISHART, J. Field trials. II. The analysis of covariance. Commonwealth Bur. Plant Breeding & Genet. Tech. Commun. 15, 35 p. May 1950. 64.9 C73
- 11255 ZEINER, W. Einengung der eiweisslücke. Deut. Landwirt. Presse 73(20):6-7. Sept. 23, 1950. 18 D482
- Culture of various legumes.

## Cereals

- 11256 ADAIR, C. R., and CRALLEY, E. M. 1949 rice yield and disease control tests. Ark. Agr. Expt. Sta. Rpt. Ser. 15, 20 p. Feb. 1950. 100 Ar42R
- 11257 ARBOUR, M. B. Hogs and hybrid corn. Prog. Farmer, Miss.-Ark.-La. Ed. 65(11):16, 139. Nov. 1950. 6 So81
- 11258 ARGUETA, J. M. Aumente su producción de arroz sembrando la variedad Fortuna. Cent. Nac. de Agron. C. Agr. 10, 4 p. June 1950. 8 Sa54C
- 11259 ATKINS, I. M., and COFFMAN, F. A. Four golden grains make 1950-51 debut. South. Seedsman 13(11):16-17, 49, 57. Nov. 1950. 61.8 So8
- Mustang, Arlington, and Atlantic oats, and Quana wheat.
- 11260 AUFHAMMER, G. Über die verbreitung von braugerstensorten in Bayern. Brauwelt 1950:865-869. Oct. 12, 1950. 390.8 B732
- 11261 BALIURA, V. Hybrid seeds of corn. (In Russian.) Kolkhoz. Proizvodstvo 10(6):25-26. June 1950. 281.8 K83
- 11262 BARRAU, J., and BOURGEOIS, J. Le blé en Nouvelle-Calédonie. Rev. Agr. de la Nouvelle-Calédonie (n.s.):15-8. Jan./Feb. 1950. 25 R322
- Culture.
- 11263 BERGE, O. I. Beating the straw problem efficiently. Ontario Milk Prod. 26:121, 123. Oct. 1950. 44.8 On8
- Harvesting and threshing.
- 11264 BLACKLEY, R. Catch crops [England] and champion barley; methods which have won "F. and S." trophy two years running. Farmer & Stock-Breeder 64:2875. Nov. 14, 1950. 10 F228
- 11265 BOHMONT, D. W. Cody, a new oat for Wyo-ming. Wyo. Agr. Expt. Sta. B. 301, 3 p. Sept. 1950. 100 W99
- 11266 BOWMAN, C. F. What's back of good hybrid seed corn. Hoosier Farmer 35(12):5, 19. Dec. 1950. 280.82 H76
- 11267 BRAGATO, P. For the cultivation of grain. (In Italian.) Agr. del Polesine 2:129-131. Sept. 1950. 16 Ag8222
- 11268 BROOKS, O. L. Corn production in North Georgia. Ga. Agr. Expt. Sta. B. 264, 35 p. June 1950. 100 G29S
- Georgia Mountain Experiment Station and the Tennessee Valley Authority cooperating.
- 11269 BURLEY, R. H. Combine Kafir 44-14, a money-maker sorghum. South. Seedsman 13(11):26, 65. Nov. 1950. 61.8 So8
- 11270 BUYS, A. C. Inspection of hybrid corn. (In Dutch.) Landbk. Tijdschr. 62:761-764. Sept. 1950. 105.2 Or3
- 11271 CAMPI, L. Hybrid American corns. (In Ital-ian.) Campagna Milan. 1950(12):2. June 30, 1950. 16 C153
- 11272 CANADA. NATIONAL BARLEY AND OIL SEEDS COMMITTEE. Proceedings of the sixteenth annual meeting, February 24th and 25th, 1949. Winnipeg, 1949. 112 p. 59.9 C169
- 11273 CANDIOLI, P. Le coltivazioni da seme nel Veronese i frumento [Growing wheat seed in Italy]. Verona, Bettinelli, 1949. 15 p. 59.26 C162



- 11274 CLAVER, F. K., and SIVORI, E. Estudio termo-fotoperiodico de 3 variedades de trigo. La Plata. U. Nac. Facul. de Agron. Lab. de Bot. B. 1:1. Apr.1950. 451 L312
- 11275 CLÉMENT, F. P. Le maïs hybride s'impose. Agr. Prat. 114:502-503. Nov.1950. 14 J82
- 11276 COWAN, P. R. Accomplishments to date in barley breeding. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:36-37. 1949. 59.9 C169
- 11277 DENISOV, P. V. Luchshie sorta zernovykh kul'tur dlia Leningradskoi oblasti po rezul'tatam sortoispytaniia za 1938-1948 gg [Best varieties of grain crops for Leningrad Region]. Leningrad, Leningradskoe Gazetno-zhurnal'noe i Knizhnoe Izd-vo, 1950. 127 p. 59 D41
- 11278 DERTEANO U., C. El cultivo del maíz en el Perú. Vida Agr. [Lima] 27:633-634. Aug.1950. 9.8 V66
- 11279 DURME, J. VAN. L'amélioration de nos orges. Petit J. du Brasseur 58:872-874. Nov.10,1950. 390.8 P44  
Breeding.
- 11280 ECKHOFF, G. Ratschläge zum anbau von wintergerste. Hannoversche Land- u. Forstwirt. Ztg. 103:793-794. Sept.9,1950. 18 H194
- 11281 EVANS, J. H. A "thumbnail" sketch of dominion-provincial conference, 1948. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:14-16. 1949. 59.9 C169
- 11282 FABBRI, A. Experimental contributions for the estimation of hail damages. (In Italian.) Riv. di Estimo Agr. e Genio Rur. 13:389-402. Aug.1950. 281.8 R522  
To wheat.
- 11283 FERWERDA, F. P. Breeding methods aimed to increase yield and force maturity of corn. (In Dutch.) Landbk. Tijdschr. 62:754-760. Sept.1950. 105.2 Or3
- 11284 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. DIV. OF AGRICULTURE. Hybrid maize in Europe. Food & Agr. 3:138-140. July/Sept.1950. 389.8 F7326
- 11285 FULLBERG, F. Weshalb vermehrte verwendung von hochzuchtsaatgut? Hannoversche Land- u. Forstwirt. Ztg. 103:793. Sept.9,1950. 18 H194  
Grain.
- 11286 GALLETTI, A. C. Grain varieties and sowing. (In Italian.) Terra [Firenze] 61(40):3. Oct.1,1950. 16 T274
- 11287 GARRETT, S. D. Some problems of intensive cereal cultivation. Inst. Corn & Agr. Merchants. J. 2: 147-151. Autumn 1950. 10 In7
- 11288 GIGLIOLI, L. New varieties of oats tested. (In Italian.) Agr. Tosc. 5:418. Nov.1950. 16 Ag827
- 11289 GIORGINI, G. New wheat breeds: "Rondine." (In Italian.) Gior. di Agr. 60:310. Oct.1,1950. 16 It1G
- 11290 GORDIENKO, M. Über den anbau des winterweizens im frühjahr. Deut. Landwirt.-Gesell. Mitt. 3: 282. Aug.1950. 18 D48M1
- 11291 GOSI, L. Old and new varieties of wheat for the new season. (In Italian.) Terra e Sole 98:343-345. Oct.1950. 16 T273  
Similar title in Spiga 6(9):2. Sept.1950. 16 Sp4
- 11292 GREANEY, F. J. Variety trends in barley and flax. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:98-101. 1949. 59.9 C169
- 11293 GRIN', A. Positive results of winter wheat sowing on stubble under conditions of Siberia. (In Russian.) Sovet. Agron. 8(8):94. Aug.1950. 20 So84
- 11294 HARDY, E. A. Barley threshing. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:48-50. 1949. 59.9 C169
- 11295 HARING. Herbstsaat und saatgutwechsel. Württemb. Wechnbl. f. Landwirt. 117:904-905. Sept.30, 1950. 18 W96  
Grain varieties.
- 11296 HARRINGTON, J. B. Accomplishments to date in barley breeding at the University of Saskatchewan. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:32-34. 1949. 59.9 C169
- 11297 HARRISON, T. J. The National Barley and Oil Seeds Committee in retrospect. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:3-8. 1949. 59.9 C169
- 11298 HELGASON, S. B. Manitoba - accomplishments in barley breeding. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:31-32. 1949. 59.9 C169
- 11299 HOFMEYER, J. D. J. Application of male sterility in the production of hybrid maize. Farming So. Africa 25:281,296. Sept.1950. 24 So842
- 11300 HUNGERFORD, D. The Australian rice harvest. World Crops 2:498-501. Dec.1950. 281.8 W892  
Chiefly cultivation.
- 11301 HUNTER, H. Variations in some hybrid varieties of cereals. Inst. Corn & Agr. Merchants. J. 2: 186-199. Autumn 1950. 10 In7  
Includes discussion.
- 11302 HUSSON, J. Réflexions sur un champ d'orge partiellement versé. Bas-Rhin Agr. 5:473,536-537. Sept.30,Nov.4,1950. 14 B29
- 11303 IAKUBTSINER, M. M. New habitat of wild wheat [Triticum araraticum Jakubz.] in U.S.S.R. (In Russian.) Bot. Zhur. 35:191-192. Ref. Mar./Apr.1950. 451 R923
- 11304 JANSSEN, R. W. Winter wheat varieties. (In Dutch.) Boer en Tuinder 4(193):15. Sept.30,1950. 12 B632
- 11305 JAUMES, L. Les blés durs, une production à étudier. Bouches du Rhône Agr. 23(1035):1-2. Oct.2, 1950. 14 B662
- 11306 JECKELL, F. L. The brewing industry and barley improvement. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:53-57. 1949. 59.9 C169
- 11307 JONES, J. W., DAVIS, L. L., and WILLIAMS, A. H. Rice culture in California. U. S. D. A. Farmers' B. 2022,32 p. Sept.1950. 1 Ag84F  
Supersedes Farmers' Bulletin 1240.
- 11308 KIRSTE. Die neue getreidesortenliste. Deut. Landwirt. Presse 73(20):7-8. Sept.23,1950. 18 D482
- 11309 KOOPMAN, C. Harvesting and drying of the new corn crop. (In Dutch.) Zeeuwisch Landbbl. 38(2038): 4-5. Sept.29,1950. 12 Z2
- 11310 KRALIN, P. Ripening peculiarities and time for grain harvesting in the eastern districts. (In Russian.) Kolkhoz. Proizvodstvo 10(7):19-20. July 1950. 281.8 K83
- 11311 KUZNETSOV, V. S., and TIMIRIAZEVA, K. A. Sowing winter rye with cross-pollinated seeds. (In Russian.) Sovet. Agron. 8(8):89-92. Aug.1950. 20 So84
- 11312 LAUMONT, P. Quelles variétés de céréales devez-vous semer? Rev. Agr. de l'Afrique du Nord 48: 723-731. Oct.6,1950. 80 R326  
Also in Tribune Agr. (n.s.)43:(791):1. Oct.15,1950. 24 T732
- 11313 LODS, E. A. The status of barley breeding in Quebec. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:23-25. 1949. 59.9 C169
- 11314 MCCALLA, A. G. Accomplishments to date in barley breeding in Alberta. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:34-35. 1949. 59.9 C169
- 11315 MCGREGOR, W. G. Flax variety picture in Canada. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:76-79. 1949. 59.9 C169
- 11316 MCROSTIE, G. P. Accomplishments in barley breeding in Ontario. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:25-31. 1949. 59.9 C169
- 11317 MAIDANIK, A. P. Chumiza [Foxtail millet]. Moskva, Moskovskii Rabochii, 1950. 23 p. 59.27 M28
- 11318 MARCHIORI, A. Grain varieties to select for the next season. (In Italian.) Informatore Agr. 6:143-144. Sept.15,1950. 281.8 In32
- 11319 MAYER, R., JONARD, P., and FOSSEUX, G. DE. Essais de blé d'automne dans la Région Parisienne, la Normandie et le Nord de la France. France. Min. de l'Agr. B. Tech. d'Inform. 53:623-638. Oct.1950. 14 F844B
- 11320 MENEZES, O. B. DE. The farmer cannot create hybrid corn. (In Portuguese.) Rev. Agron. [Pôrto Alegre] 14:106. Apr./June 1950. 9.2 R325
- 11321 MEULEN, J. G. J. VAN DER. Rice. (In Dutch.) Chron. Nat. 106:248-252. June 1950. 514 B31  
Indonesia.
- 11322 MIDDLETON, G. K., and HEBERT, T. T. Atlas wheat. N. C. Agr. Expt. Sta. Spec. C. 8,8 p. Sept. 1950. 100 N81Sp
- 11323 MIDDLETON, G. K., and HEBERT, T. T. Colonial barley. N. C. Agr. Expt. Sta. Spec. C. 9,8 p. May 1950. 100 N81Sp
- 11324 MURRAY, D. B. A uniformity trial with swamp rice. Trop. Agr. [Trinidad] 27:105-107. Apr./June 1950. 26 T754



- 11325 MYSORE. DEPT. OF AGRICULTURE. Summer ragi campaign. Mysore Agr. Calendar 1949/50:6-8. 1949. 34.2 M99
- Culture.
- 11326 NAZARENKO, A. D. Semenovodstvo zernovykh kul'tur [Seed production of cereals]. Tula, Obl. Knizhnoe Izd-vo, 1949. 31 p. (Bibliotekha Kolkhoznika) 59 N23
- 11327 NICCOLI, E. Rice culture in Tripolitania. (In Italian.) Libia Agr. 1950(13):1. Oct. 29, 1950. 24 L61
- 11328 OZERNYI, M. E. Moĭ opyt vyrashchivaniya vysokikh urozhayev kukuruzy [My practices in growing high yields of corn]. Dnepropetrovsk, 1950. 29 p. 59.22 Oz3
- 11329 PAGLIARI, G. Rules for the cultivation of hybrid corn. (In Italian.) Rinasclta Agr. 5(12):2. Apr. 15, 1950. 281.8 R47
- 11330 PAINE, K. E. Eastern States hybrids are making friends. East. States Coop. 26(12):15. Dec. 1950. 280.28 Ea7
- Corn.
- 11331 PAMMER, F. Sortenwahl bei wintergetreide. Pflug 3:204-206. Oct. 1950. 19 P48
- 11332 PODSHIVALOV, F. A. Agrotehnika grechikhi [Cultural practices for buckwheat]. Smolensk, Smolenskoe Obl. Gos. Izd-vo, 1950. 23 p. 59.27 P75
- 11333 POLDERMAN, B. Possibilities for corn culture in the Netherlands. (In Dutch.) Landbk. Tijdschr. 62:740-753. Sept. 1950. 105.2 Or3
- 11334 PORTIANKO, V. F. Yarovization of corn. (In Russian.) Priroda 39(8):63-66. Aug. 1950. 410 P933
- 11335 POSTNIKOV, V. F. Agrotehnika farovykh zernovykh kul'tur v nechernozemnoi polose [Cultural practices for spring cereals [wheat, barley and oats] in the non-black soil area]. Moskva, Goz. Izd-vo Selkhoz Lit-ry, 1949. 110 p. 59 P84
- 11336 ROGERS, J. S. New [corn] hybrids spur Texas acreage. South. Seedsman 13(11):18, 51, 54. Nov. 1950. 61.8 So8
- Similar title in Tex. Livestock J. 9(11):6. Nov. 1950. 49 T29
- 11337 ROSA, M. DE. Hybrid corn. (In Italian.) Gior. di Agr. 60:333. Oct. 22, 1950. 16 It1G
- 11338 ROSSI, U. Behavior of grain varieties cultivated in the Modena plain. (In Italian.) Campagnolo 5(9):1-3. Sept. 1950. 16 C15
- 11339 SALA ROCA, E. De genética triguera: puede España producir suficiente trigo? Ceres [Valladolid] 14(172):10-11, 13-15. Oct. 1, 1950. 15 C33
- 11340 SALA ROCA, E. La recolección y venta del trigo de la cosecha de 1950. Cult. Mod. 33:328-329. Sept. 1950. 15 C89
- Spain.
- 11341 SALAMOV, A. B. New data on corn pollination. (In Russian.) Agrobiologiya 1950(4):110-118. July/Aug. 1950. 20 Ag822
- 11342 SNIDER, H. J. Corn is a superior crop. Better Crops Plant Food 34(9):12-13, 43. Nov. 1950. 6 B46
- 11343 SNIDER, H. J. Some facts about hybrid corn. Org. Farmer 2(4):16-18. Nov. 1950. 57.8 Or3
- 11344 SOLOV'EV, G. M. Buckwheat pollination by honeybees. (In Russian.) Pchelovodstvo 27:267-271. May 1950. 424.8 P295
- 11345 SØRENSEN, J. E. Rye. (In Danish.) Dansk Landbr. 69:436-437. Aug. 24, 1950. 280.28 V91
- 11346 A STRAW worth grabbing. Org. Farmer 2(4):15, 51-52. Nov. 1950. 57.8 Or3
- Broomcorn.
- 11347 SUVOROV, N. S. Zernovedenie [Science of grain] Moskva, Gos. Izd-vo Tekhn. i Ekon. Lit-ry po Voprosam Zagotovok, 1950. 214 p. 59 Su8
- 11348 SVENSON, J. Neuere erfahrungen auf dem gebiet der bestimmung der keimfähigkeit des getreides. Müllerrel 3:663-664. Oct. 14, 1950. 298.8 M91
- 11349 THOMPSON, E. G. Winter oats and barley. Farming [Norwich] 4:345-348. Nov. 1950. 10 F2236
- Varieties grown in England.
- 11350 TILT, J. Malting barley; varieties and quality. Tasmanian J. Agr. 21:177-183. Aug. 1950. 23 T182T
- 11351 VIGIL, C. C. El maíz, fabuloso tesoro. Rev. Ganad. [Habana] 10(11):35-36. (To be cont.) Nov. 1950. 49 R321
- 11352 VSESOIŪZNAIA KOMMUNISTICHESKAIA PARTIYA (BOL'SHEVIKOV) MOSKOVSKII KOMITET. Agrotehnika vyrashchivaniya kukuruzy v kolkhozhakh Moskovskoi oblasti [Cultural practices for growing corn on collective farms in Moscow Region]. Moskva? Moskovskii Rabochii, 1950. 18 p. 59.22 V963
- 11353 WILSHAW, R. G. H. Agronomic and breeding research on rice, oil-palms, and cacao in Malaya. I. Rice. Empire J. Expt. Agr. 18:227-232. July 1950. 10 Em7
- 11354 YOHE, R. Are we as good as we think we are? Here are average per acre grain yields in European areas. Prairie Farmer, Gen. Ed. 122(20):5, 50. Oct. 21, 1950. 6 P883
- 11355 YOUNG, N. Present position and future outlook of the National Barley and Oil Seeds Committee. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:9-14. 1949. 59.9 C169
- Fiber Crops
- 11356 BARNHART, F. Cotton. Ed. 3. Caruthersville, Mo., 1950. 370 p. Ref. 72 B26
- 11357 CHALMIN, M. Questions d'actualités sur le sisal. Rev. Internat. des Prod. Colon. 25:171, 173, 175-176. Oct. 1950. 286.8 R326
- Culture.
- 11358 CULBERTSON, J. O. Flax variety picture in the United States. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:79-83. 1949. 59.9 C169
- 11359 DEMPSEY, J. M., SEALE, C. C., and GANGSTAD, E. O. Ramie, promising new fiber crop. Crops & Soils 3(2):14-15, 31. Nov. 1950. 6 W55
- 11360 ENE DE PIRO, M. Les plantes grasses: les "agaves." Réveil Agr. 59:262-263. Sept. 1, 1950. 14 R322
- Varieties.
- 11361 FOWLEY, H. D. La industrialización del sisal. Hacienda 45(11):37-38. Nov. 1950. 6 H11
- Culture and processing.
- 11362 FREDERIKSEN, P. S. Some fall thoughts on the coming flax crop. (In Danish.) Dansk Landbr. 69:469-470. Sept. 14, 1950. 280.28 V91
- 11363 HAARER, A. E. Revival of English flax growing. Cordage World & Indus. Textiles 32(372):16-17. Oct. 1950. 73.8 C813
- 11364 KHADILKAR, T. R. Graphical representation of Khandesh cotton breeding work done during 1921 to 1948. Poona Agr. Col. Mag. 41:54-56. June 1950. 22 P79
- 11365 LAMAS, P. J. A. Resultados de las experiencias con lino realizadas en la Estación Experimental Nacional de Colonia Mascias. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(12):2-11. June 1950. 9 Ar35
- Cultural.
- 11366 LHUILLIER, J. Le coton en A. O. F. [Afrique Occidentale Française] les possibilités de production et le programme des recherches envisagées par l'I.R.C.T. [Institut de Recherches du Coton et des Textiles Exotiques]. Coton et Fibres Trop. 5:107-120. Sept. 1950. 73.8 C82
- 11367 LODEN, H. W., LEWIS, C. F., and RICHMOND, T. R. The effects of time and method of pollination on seed set in American upland cotton. Agron. J. 42:560-564. Ref. Nov. 1950. 4 Am34P
- 11368 LOMBARD, P. Les recherches agronomiques concernant la culture du coton à l'Office du Niger. I. L'amélioration de la plante. Coton et Fibres Trop. 5:95-105. Sept. 1950. 73.8 C82
- 11369 MCCURDY, E. V. Experiments on flax rotation. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:92-94. 1949. 59.9 C169
- 11370 MCGREGOR, W. G. Flax breeding on Dominion Experimental Farms. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:70-72. 1949. 59.9 C169
- 11371 MARTIN, R. Cotton farmer must now be a chemist, too, if he expects to stay in business. Farmer-Stockman 53(11):13, 19. Nov. 1950. 6 Ok45
- Chemical weed and insect control and the use of chemicals in cotton defoliation.
- 11372 OJEDA ORTEGA, D. El cultivo del algodón y la fertilidad de los suelos regionales. Agr. Lagunero 4(44):18-22. Sept./Oct. 1950. 8 Ag824



- 11373 ORESHKIN, P. N. Vozdelyvanie kenafa v raionakh oroshaemogo zemledeliia Groznenskoi oblasti. [Kenaf culture in the districts of irrigated agriculture in Grozny Region]. Grozny, Obl. Knizhnoe Izd-vo, 1950. 32 p. 73.2 Or32
- 11374 PARDO PASCUAL, M. Estudio comparativo de cinco variedades de lino procedentes de la estación de mejora de plantas de Wageningen, Holanda. Spain. Inst. Nac. de Invest. Agron. B. 10(22):49-73. June 1950. 105.6 Sp14  
English summary.
- 11375 RAGAZZI, G. Harvesting and preparation of hemp for retting. (In Italian.) Humus 6(8):15-18. Aug. 1950. 16 H88
- 11376 SOCIETE D'ENTREPRISES COMMERCIALES EN EGYPT. SERV. AGRONOMIQUE. La culture du coton en Egypte. Alexandrie, 1950. 152 p. 72 So14
- 11377 SOKOLOV, K. K. Kak poluchit' vysokie urozhai khlopchatnika v nepolnykh raionakh [How to obtain high yields of cotton in the non-irrigated districts]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 47 p. 72 So3
- 11378 VIERDICH, W. Die flachsernte. Hannoversche Land- u. Forstwirt. Ztg. 103:690,693. Aug. 5, 1950. 18 H194

#### Forage Crops and Grasses

- 11379 AHLGREN, H. L., and BURCALOW, F. V. Bromegrass [Bromus] and alfalfa for hay, pasture or silage. Wis. Agr. Col. Ext. C. 344, rev., 12 p. June 1950. 275.29 W75C
- 11380 ANDRONNIKOV, T. N. 5.11 centners of clover seed per hectare. (In Russian.) Pchelovodstvo 27:343. June 1950. 424.8 P295
- 11381 BAILEY, R. Y. Tall fescue in the Southeast. Better Crops Plant Food 34(9):6-11, 39-41. Nov. 1950. 6 B46
- 11382 BARNES, O. K., and NELSON, A. L. Dryland pastures for the Great Plains. Wyo. Agr. Expt. Sta. B. 302, 30 p. Oct. 1950. 100 W99
- 11383 BECKMAN, H. J. New acres for the West. West. Livestock J. 28(64):36, 69-71. Nov. 15, 1950. 6 F2278  
Reclamation of brush-covered land in California for grazing.
- 11384 BEETLE, A. A., comp. An introductory bibliography of range management in Wyoming. Wyo. Range Managt. 27, 12 p. Sept. 1950. 60.19 W99
- 11385 BELL, R. Spring grass in the fall. Hoard's Dairymen 95:913. Dec. 25, 1950. 44.8 H65  
Pasture management.
- 11386 BENAVIDEZ, C. C. El cultivo de la alfalfa en la Provincia de Mendoza. Vinos, Viñas y Frutas 45:135-136, 138-139, 141-144, 146. (Cont.) Aug. 1950. 9 Ag89
- 11387 BENTLEY, J. R., and TALBOT, M. W. Seeding burns—value of proper improved range management cited. West. Livestock J. 28(64):60-61. Nov. 15, 1950. 6 F2278
- 11388 BERNARD, P. La luzerne dans les assolements. Monit. Agr. 3(135):2. Nov. 12, 1950. 14 M744
- 11389 BEVARD, G. E. Alfalfa seed specialists. West. Farm Life 52(22):5. Nov. 15, 1950. 6 R153  
Alfalfa seed production, Utah.
- 11390 BLEAK, A. T., and PHILLIPS, T. A. Seedling stands from airplane broadcasting of pelleted and unpelleted seed in southeastern Utah. U. S. Forest Serv. Intermountain Forest & Range Expt. Sta. Res. Paper 22, 14 p. Ref. Aug. 1950. 1.9622 I2R31  
Grass plants in national forest range land.
- 11391 BLOHBERGER, J. Die bewirtschaftung der wiesen. Burgenländische Bauernbündler 3(19):8-9. Oct. 10, 1950. 19 B91
- 11392 BOIVIN, T. E. Vers un système rationnel l'herbage à la ferme expérimentale de Lennoxville. Terre de Chez Nous 22(37):4, 23. Nov. 8, 1950. 7 T27
- 11393 BOLLATI, O. Vigna sinensis in seed culture. (In Italian.) Campagna Milan. 1950(7):2. Apr. 15, 1950. 18 C153
- 11394 BORGES, J. F. B. A few aspects of the forage problem in Angola. (In Portuguese.) Agron. Angolana 3:39-44. 1950. 24 Ag83  
English summary.
- 11395 BOTHMER, H. J. VON. Die dauerweide als lebendiges ganzes. Landwirt. Wehnbl. f. Westfalen u. Lippe 107 A:1377. Oct. 5, 1950. 18 L2346
- 11396 BREAKSELL, E. J. Subterranean clover. Milk Bd. J. 1:472, 474-475. Sept. 15, 1950. 44.8 M5934
- 11397 BROOKS, O. L., and MCKINNEY, W. H. Progress report on the utilization of perennial grazing, Ladino clover and tall fescue [Festuca elatior]. Ga. Agr. Expt. Sta. Mimeog. Ser. 26, 3 p. Aug. 1950. 100 G29M  
Georgia Mountain Experiment Station cooperating.
- 11398 CHAMPEVAL. Sur un essai de semis à la volée de luzernes arborescentes, en plein champ. Volx des Colons 32(1575):1. Sept. 25, 1950. 24 V85  
Also in Blé et le Vin 27(1154):1. Oct. 1/15, 1950. 14 B61
- 11399 CLARK, H. Crimson clover successful in East Texas. East Tex. 25(3):7, 15. Dec. 1950. 6 Ea73
- 11400 COUDERC, V. Evolution des prairies graminées-luzerne. Terre d'Oc 32:447-449. Oct. 1950. 14 Ar5
- 11401 CROSMAN, R. The world's vanishing grasslands; grazing lands wear out because of too much stock on too few acres. Family Herald & Wk. Star 81(44):7. Nov. 2, 1950. 7 F21
- 11402 DELUCQ. Semis de vesces de Cerdagne. Terre d'Oc 32:409-410. Sept. 1950. 14 Ar5
- 11403 DURHAM, S. B. Pastures in Oklahoma. Okla. Agr. Col. Ext. C. 482, 19 p. n.d. 275.29 Ok41C
- 11404 ELAM, F. L. Brush burning pays off! West. Livestock J. 28(59):52-53, 66-68. Oct. 15, 1950. 6 F2278  
Controlled burning in converting the land back to pasture for cattle.
- 11405 ELLIS, M. G. Pastures on the prairies. Family Herald & Wk. Star 81(40):3, 14. Oct. 5, 1950. 7 F21  
Community pastures in Manitoba and Saskatchewan under the Prairie Farm Rehabilitation Act.
- 11406 ELSUKOV, M., and GROMOVA, L. Annual ryegrass—a valuable forage crop. (In Russian.) Kolkhoz. Proizvodstvo 10(6):40-41. June 1950. 281.8 K83  
Chiefly culture.
- 11407 ENGLE, R. H. Don't be satisfied with average yields. Hoard's Dairymen 95:914. Dec. 25, 1950. 44.8 H65  
In grassland farming.
- 11408 FAAS. Behandlung der wiesen und weiden im herbst. Allgäuer Bauernbl. 18:650. Nov. 2, 1950. 18 AL53
- 11409 FEDOTOV, V. S. Cultivation problems of slightly alkaloid lupine and serradella. (In Russian.) Sovet. Agron. 8(8):50-59. Aug. 1950. 20 So84
- 11410 FERNANDEZ-QUINTANILLA, C. Hacia un mayor rendimiento de nuestra pradería. Agricultura [Madrid] 19:468-470. Oct. 1950. 15 Ag84
- 11411 FORBES, R. H. Regrassing—many Northwest farms switch over to grass and livestock production. West. Livestock J. 28(59):99-103. Oct. 15, 1950. 6 F2278
- 11412 FOSTER, R. Six months of spring pasture. Capper's Farmer 61(12):14, 60. Dec. 1950. 6 M693
- 11413 FOX, L. Gulf Coast [Texas] pastures; dairy operators and beef cattle raisers profit from improved permanent pastures and supplemental grazing. Humble Farm Family 7(5):3-6. Oct. 1950. 6 F233
- 11414 FUGA, A. Winter or hairy vetch. (In Russian.) Sovet. Agron. 8(8):45-49. Aug. 1950. 20 So84  
Culture chiefly.
- 11415 GAMMON, N., JR., and others. First-year yields from Louisiana white clover-Dallis grass [Paspalum dilatatum] pasture plots on Carnegie and Tifton fine sandy loams. Fla. Agr. Expt. Sta. C. S-19, 5 p. Sept. 1950. 100 F66C1  
H. W. Lundy, J. R. Neller, and R. A. Carrigan, joint authors.
- 11416 GARNER, F. H. Long leys in the fens [East Anglia]. Gt. Brit. Min. Agr. Agriculture 57:301-304. Oct. 1950. 10 G79J
- 11417 GAUL. Wann ist grünland durch pflegemassnahmen, wann durch umbruch zu verbessern? Bad. Landwirt. Wehnbl. 117:668-669. Sept. 30, 1950. 18 W96
- 11418 GILARDI, R., L. Cultivos asociados de plantas forrajeras. Lima, 1950? 4 p. 60 G372
- 11419 GRABER, L. F. A century of alfalfa culture in America. Agron. J. 42:525-533. Nov. 1950. 4 Am34P
- 11420 GRAY, R. S. Reseeding crimson clover. Farm Q. 5(4):42-45, 104, 106-107. Winter 1951. 6 F22995



- 11421 GRINSTED, R. The cultivation of lucerne. *Gr. Brit. Min. Agr. Agriculture* 57:304-307. Oct.1950. 10 G79J
- 11422 HAFENRICHTER, A. L., MULLEN, L. A., and BROWN, R. L. Grasses and legumes for the Pacific Northwest. *Seed World* 67(8):18,20,24. Oct.20,1950. 61.8 Se52
- 11423 HARRISON, C. M. Creek bottom pastures. *Hoard's Dairyman* 95:881. Dec.10,1950. 44.8 H65 Management.
- 11424 HART, M. L., and VRIES, D. M. DE. La prairie et l'exploitation de la prairie aux Pays-Bas. *France. Min. de l'Agr. B. Tech. d'Inform.* 52:547-551. Sept.1950. 14 F844B
- 11425 HEICK, F. Harvesting ripe lupine. (In Danish.) *Dansk Landbr.* 69:416. Aug.10,1950. 280.28 V91
- 11426 HEINRICHS, D. H. Alfalfa that creeps. *Country Guide* 69(10):11,31. Oct.1950. 7 G76
- 11427 HENNING, P. D. The culture and utilization of dryland lucerne in the winter-rainfall area of South Africa. *Brit. Agr. B.* 3:93-97. Summer 1950. 10 B776
- 11428 HODGES, E. M., and JONES, D. W. Torpedo grass [*Panicum repens*]. *Fla. Agr. Expt. Sta. C. S-14*, 4 p. June 1950. 100 F66Ci
- 11429 HORTON, C. R. Deferred grazing—Irrigated pastures need growth period. *West. Livestock J.* 28(59):130,134,137,140. Oct.15,1950. 6 F2278
- 11430 HURST, F. Pastures for Louisiana hills and valleys. *Prog. Farmer, Miss.-Ark.-La. Ed.* 65(11):22, 141. Nov.1950. 6 So81
- 11431 HUSEMANN, Die marschversuchswirtschaften und ihre betriebswirtschaftliche zielsetzung. *Hannoversche Land- u. Forstwirt. Ztg.* 103:772-773. Sept.2,1950. 18 H194
- Pastures.
- 11432 JOHNSTONE-WALLACE, D. B. Grass and the grazing animal: a study of plant and beast. 1. Chemistry of the sward. *Farmers Wk. [London]* 33(20):46-47,49. Nov.17,1950. 10 F2226
- Pasture management.
- 11433 JORIS. Grünlandpflege und -düngung im Herbst. *Hannoversche Land- u. Forstwirt. Ztg.* 103:689. Aug.5, 1950. 18 H194
- 11434 KALENICH, E. S. Rational methods for harvesting alfalfa for hay. (In Russian.) *Sovet. Zootekh.* 5 (8):68-72. Aug.1950. 49 So822
- 11435 KAUTER, A. Weidewirtschaft und weidetechnik. *Schweiz. Bauer* 104(128):1. Nov.3,1950. 17 Sch95
- 11436 KAZANSKIĬ, V. A., KARASEV, I. I., and BROZGUL', M. M. Sevooboroty zhivotnovodcheskikh sovkhov [Crop rotations on livestock-raising state farms]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 228 p. 60.1 K18
- 11437 KENNEDY, C. Over 900 Angus breeders plus lush pastures spell out prosperity for Bluegrass State. *Ky. Farmer* 86(11):4-5,7. Nov.1950. 6 F2237
- Chiefly grass land management.
- 11438 KLOBUKOVA-ALISOVA, E. N. Vidy dikikh klevorov Bashkirskoi ASSR [Wild clover species of Bashkir ASSR]. *Ufa, Bashgosizdat*, 1950. 50 p. 452.3 K692
- 11439 KOBLET, R. Culture du trèfle violet et du trèfle hybride en régions élevées (Importance de la variété et de la provenance des graines). *Rev. Romande d'Agr., de Vitic. et d'Arbor.* 6:73-75. Oct.1950. 17 J82A
- 11440 KOCH, F. Lucerne growing at Wilkawatt. *So. Austral. Dept. Agr. J.* 54:34-35. Aug.1950. 23 So84
- 11441 KOMAROV, I. Grow white clover seeds. (In Russian.) *Pchelovodstvo* 27:341-342. June 1950. 424.8 P295
- 11442 KONING, H. Culture of English ryegrass. (In Dutch.) *Netherlands. Landbouwlichtingsdienst. Maandbl.* 7:347-355. Aug.1950. 12 N383M
- 11443 KOZLOVSKIĬ, A. I. Kormovye korneplody v lesostepnoi zone Zapadnoi Sibiri [Forage rootcrops in the forest-steppe zone of Western Siberia]. *Novosibirsk, Novosibirskoe Obl. Gos. Izd-vo*, 1949. 194 p. 60.4 K84
- 11444 LARIN, I. V., ed. Kormovye rasteniia senoskov i pastbishch SSSR [Forage plants of the meadows and pastures of U. S. S. R.], v. 1. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 687 p. 60 L32Ko
- 11445 LIEBENBERG, L. C. C. The place of *Setaria* grasses in agriculture. *Farming So. Africa* 25:249-253, 257. Aug.1950. 24 So842
- 11446 LOWERY, J. C. The "makings" of good pasture. *Prog. Farmer, Ga.-Ala.-Fla. Ed.* 65(11):17. Nov.1950. 6 P945G
- 11447 LUBENETS, P. A. Importance of local wild-growing grasses in Northern Caucasus for the adaptation of grass-field crop rotation in Kuban Area. (In Russian.) *Sovet. Agron.* 8(8):60-71. Aug.1950. 20 So84
- 11448 MCVICKAR, M. H. New pastures for old, a story in pictures. *Fert. Rev.* 25(4):10-11. Oct./Dec.1950. 57.8 F414
- 11449 MCVICKAR, M. H. Pasture programs need your attention. *Com. Fert.* 81(5):28,30,53-54. Nov.1950. 57.8 C73
- 11450 MAKSIMENKO, N. V. Zelenyi konveier [Continuous supply of green feed]. *Kursk, Kurskaia Prayda*, 1950. 91 p. 60 M282
- 11451 MARSCHALL, F. Die naturwiesenbestände Nordwestdeutschlands. *Schweiz. Landwirt. Monatsh.* 28: 342-348. Oct.20,1950. 17 Sch93
- 11452 MEIJERS, P. G. The culture of alfalfa. I-III. (In Dutch.) *Gelders Landtbl.* 13(42):4;(43):5;(44):11. Oct.28-Nov.11,1950. 12 G282
- 11453 MITROFANOV, A. S. Vika farovaia [Spring vetch]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 77 p. 60.3 M71
- 11454 MOOLMAN, J. Z. System that has been used for 80 years. (In Afrikaans.) *Wolboer* 37:3-4,48. Aug. 1950. 45.8 W83
- Burning over grasslands.
- 11455 MOROZOVA, O. I. Problems in the study and utilization of desert pastures in Middle Asia. (In Russian.) In Pavlovskii, E. N., and Ilin, M. M., eds. *Pustyni SSSR i ikh osvoenie*, p.105-125. Ref. Moskva, Akademika Nauk SSSR, 1950. 409 P282
- 11456 MOSCOW. VSESOIŪZNYĬ NAUCHNO-ISSLEDOVATELSKIĬ INSTITUT KORMOV. Klevor krasnyi [Red clover]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 376 p. 60.3 M852
- 11457 MOSOLOV, V. P. Mnogoletnie travy [Perennial leguminous plants and grasses]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 181 p. 60 M853
- 11458 MOSTERT, J. W. C. Woolly finger grass [*Digitaria pentzi*] as a pasture crop. *Farming So. Africa* 25:259-260. Aug.1950. 24 So842
- 11459 MYREN, D. This family finds it pays to farm with just grass. *Dairyland News* 20(11):6. Nov.1950. 280.28 W752
- 11460 NATIONAAL CENTRUM VOOR GRASLAND-EN GROENVOEDERONDERZOEK (BELGIUM). Verslag over 1949 [Report for 1949 of the National Center for Grassland and Green Fodder Research]. *Melle* 71950. 31 p. 60.9 C33
- 11461 NAZAROV, V. S., PIVOVAROV, P. N., and MARATKANOV, A. S. 4 centners of clover seeds per hectare. (In Russian.) *Pchelovodstvo* 27:370-371. June 1950. 424.8 P295
- Pollination by honeybees.
- 11462 NEUMANN, F. Achtet auf saubere rübenblatternte. *Molk.-Ztg.* 4(40)(sup.:Unser Milchvieh Ausg. A 2(10):5-6.). Oct.5,1950. 44.8 M735
- 11463 NICHOLSON, R. Beef bonuses from idle land. *West. Live Stock* 36(4):14-15,107. Nov.1950. 49 W523
- Experiments in reseeding wornout, abandoned land in Oklahoma with weeping lovegrass.
- 11464 NIXON, W. M. Grasses of the western Gulf States. *Org. Farmer* 2(4):38-41,64. Nov.1950. 57.8 Or3
- 11465 NIXON, W. M. KR bluestem [*Andropogon*], good for most of Texas. *Prog. Farmer, Tex. Ed.* 65(11): 24,141. Nov.1950. 6 T311
- 11466 NOLIN, W. T. Louisiana Improved White; it's evergreen; a new clover that reseeds, gives hot season pasture and rivals Ladino in growth. *South. Seedsman* 13(11):15,55. Nov.1950. 61.8 So8
- 11467 PLŪSHCH, A. V. Experiment in growing high yields of red clover seeds. (In Russian.) *Pchelovodstvo* 27:275-276. May 1950. 424.8 P295
- 11468 PLUMMER, A. P., and FENLEY, J. M. Seasonal periods for planting grasses in the subalpine zone of central Utah. *U. S. Forest Serv. Intermountain Forest & Range Expt. Sta. Res. Paper* 18,12 p. Feb.1950. 1.9622 I2R31
- 11469 POTTS, R. C. Greener pastures. *Tex. Livestock J.* 9(11):7,62. Nov.1950. 49 T29



- 11470 PURSER, R. Substitute for alfalfa; birdsfoot trefoil [*Lotus corniculatus*] has done well as a legume hay and pasture crop for some farmers who are unable to grow alfalfa because of poor soil conditions. *Family Herald & Wk. Star* 81(44):5,14. Nov.2,1950. 7 F21
- 11471 QUEIROZ, J. DE B. R. Forage plants in the Hulla Plateau. (In Portuguese.) *Agron. Angolana* 3:45-58. 1950. 24 Ag83.  
English summary.
- 11472 REEVES, F. Grass; Flat Top Ranch shows the way to better pastures with practical methods. *Cattleman* 37(7):21-24,48-50. Dec.1950. 49 C29
- 11473 RICHARSON, J. D. The necessity for pasture improvement. *Milk Bd. J.* 1:481-483. Sept.15,1950. 44.8 M5934
- 11474 ROARK, C. L. Grassland farming is paying off. *South. Planter* 111(11):16-17. Nov.1950. 6 So89
- 11475 ROMOLOTTI, A. Bermudagrass, forage plant for arid soils. (In Italian.) *Ital. Agr.* 87:573-574. Sept. 1950. 16 It1
- 11476 SALAEV, I. A. Verblifuzh'ia kolfuchka i eš lapol'zovanie [Alhagi and its utilization]. *Ashkhabad, Turkmenskii Filial Akademii Nauk SSSR*, 1949. 75 p. 60.3 Sa3  
Chiefly as forage crop.
- 11477 SAMOKHVALENKO, S. K. Agrotehnika kor-movol' sveyki na polnykh zemliakh Uzbekistana [Cultural practices for forage beets on the irrigated lands of Uzbekistan]. *Tashkent, AN UzSSR*, 1950. 33 p. 60.4 Sa4
- 11478 SCHÜTZHOLD, G. Die kurztagsweide—ein mittel zur erhöhung der veredlungsleistung und zur senkung der erzeugungskosten. *Landwirtbl. Weser-Ems* 97:788-789. Sept.21,1950. 18 L2345
- 11479 SERGEEV, P. A. Increasing resistance [to weather conditions] and productivity of red clover in the field crop rotations. (In Russian.) *Sovet. Agron.* 8(8):72-82. Aug.1950. 20 So84  
Cultural methods chiefly.
- 11480 SMIRNOV, I. S., and SOROKOUMOV, P. P. Care of forage crops. (In Russian.) *Sotsialist. Zhivotno-vod.* 12(6):8-11. June 1950. 49 So71  
Chiefly on root-crop culture.
- 11481 SNIDER, H. J. Grow full acres of legumes and grasses. *Hoard's Dairyman* 95:882. Dec.10,1950. 44.8 H65
- 11482 SØRENSEN, J. E. Winter vetch-rye. (In Danish.) *Dansk Landbr.* 69:424. Aug.17,1950. 280.28 V91
- 11483 STANTON, H. R. Atkinson's 10-to-1 pasture program; it won him the Green Pastures Contest. *N. J. Farm. & Gard.* 21(11):14-15,58. Nov.1950. 6 G162
- 11484 STEBBINS, G. L., JR. New grasses—drouth-resistant strains developed for dry range. *West. Livestock J.* 28(59):105-107,109. Oct. 15,1950. 6 F2278
- 11485 STUBBS, J. R. Forage crop growing and utilization. *Gt. Brit. Min. Agr. Agriculture* 57:316-319. Oct.1950. 10 G79J  
Includes a guide to winter grazing crops.
- 11486 SVECHNIKOV, I. V., and BRIUKHOV, G. I. Kormovye kul'tury Sverdlovskoi oblasti [Forage crops of Sverdlovsk Region]. *Sverdlovsk, Sverdlovskoe Obl. Gos. Izd-vo*, 1950. 178 p. 60 Sv2
- 11487 TELFORD, E., and CHILDERS, N. F. Le kudzu tropical (*Pueraria phaseloides*) à Puerto-Rico. *Madagascar. Insp. Gén. des Serv. Agr. B. Agr.* 3(23):22-23. May 1950. 25 M26
- 11488 TERPSTRA, A. Pastures in the autumn. (In Dutch.) *Overijsselsch Landtbl.* 32(1576):12. Oct.28,1950. 12 Ov2
- 11489 THOMPSON, W. R. Every good pasture needs a good manager. *Prog. Farmer, Miss.-Ark.-La.* Ed. 65 (11):17. Nov.1950. 6 So81
- 11490 TOLNER, J. Soil improvement and green feed production. II. (In Dutch.) *Plattelands-Post* 6(43): 6. Nov.4,1950. 12 P69  
Nitrogen fertilization.
- 11491 TORY, K. S. Buffalo Park Grazing Ass'n. community pasture. *Canad. Cattleman* 13(11):23. Nov. 1950. 49 C16
- 11492 TRABAUER, F. Die genossenschaftsweide in Ödt an der Wild. *Landwirtschaft* 1950:262-263. Sept. 1950. 19 L235
- 11493 TURVEY, K. Improving pasture in 15-inch rainfall country. *Adelaide Stock & Sta. J.* 45(2338):6,46-47. Sept.6,1950. 23 Ad3
- 11494 VOISIN, A. Rotation des herbages. *B. du HBN* (n.s.):8-17. Aug.1950. 43.8 R11
- 11495 WALL, P. F. Winter pasture problem. *Farmer & Countryman* 39(38):9-10. Sept.15,1950. 24 F227
- 11496 WALPOLE, L. J. Cliff Neafus solves his problems. *Sowest. Crop & Stock* 4(11):22-23. Nov.1950. 6 So8942  
Range management in New Mexico.
- 11497 WARMKE, H. E. "Mayaguez hairless"—a mutant of tropical kudzu. *Agron. J.* 42:571-573. Nov. 1950. 4 Am34P
- 11498 WEISS, M. G., and MUKERJI, S. K. Effects of planting method and nitrogen fertilization on relative performance of orchardgrass strains. *Agron. J.* 42:555-559. Nov.1950. 4 Am34P
- 11499 WILLIAMS, H. R., and HODSON, E. A. Arkansas—the land of green opportunity. *Livestock Wk.* 4(51):10-11,39-41. Oct.26,1950. 49 L753  
Pasture management.
- 11500 ZUBAREV, A. Summer planting of alfalfa and sainfoin. (In Russian.) *Kolkhoz. Proizvodstvo* 10(7):23-24. July 1950. 281.8 K83
- 11501 ZURN, F. "Wechselgrünland und neuansaaten" oder "feldfutterbau und dauergrünland?" *Pflug* 3:175-177. Sept.1950. 19 P48  
Austria.
- 11502 ZURN, F. Wie legt man eine schweineweide an? *Kärntner Bauer* 100:332-333. Sept.15,1950. 19 K14

## Oil Crops

- 11503 BUCHINGER, A. Versuchsergebnisse und erfahrungen im ölfruchtbaue. *Pflug* 3:179-182. Sept.1950. 19 P48  
Austria.
- 11504 BUTLER, E. Stephenville, peanut growers' experiment station. *Prog. Farmer, Tex. Ed.* 65(11):15, 134,136. Nov.1950. 6 T311  
West Cross Timbers Experiment Station near Stephenville, Texas.
- 11505 CANO, J. M., and CARDOZA, J. Variedades de ajonjolí para El Salvador. *Cent. Nac. de Agron. C. Agr.* 9,4 p. June 1950. 8 Sa54C
- 11506 COLLISTER, E. H. Ancient sesame approaches fulfillment as new oilseed crop for southern agriculture. *Cotton Gin & Oil Mill Press* 51(25):9-10. Dec.9,1950. 304.8 C822  
Research in sesame culture.
- 11507 CULBERTSON, J. O. Objectives and progress in flax breeding in the United States. *Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg.* 16:73-76. 1949. 59.9 C169
- 11508 DEBELYĀ, A. S. Vozdelyvanie podsolnechnika na silos v Latvii SSR [Cultivation of sunflower for silage in Latvian SSR]. *Riga, Latgosisdat*, 1950. 43 p. (Biblioteka Kolkhoznika) 77 D35
- 11509 EVERY row an outside row; two rows of soybeans and two of corn, alternated, will yield 15 to 20 per cent more corn per acre. *Farm Q.* 5(4):58-59,88,90. Winter 1951. 6 F22995
- 11510 FRIEDERICH, J. C. Weed control, breeding, seed forming and occurrence of some parasitic fungi on oil flax. (In Dutch.) *Landbk. Tijdschr.* 62:731-739. Sept.1950. 105.2 Or3
- 11511 KLESTRUP-HANSEN, F. Rape. (In Danish.) *Dansk Landbr.* 69:479-480. Sept.21,1950. 280.28 V91
- 11512 KNOWELS, P. F. Experience with safflower in California. *Calif. Farm Bur. Mon., North. Ed.* 31(11): 15. Nov.1,1950. 275.293 California  
Culture and varieties.
- 11513 KOFOED, A. D. Rape. (In Danish.) *Dansk Landbr.* 69:445-446. Aug.31,1950. 280.28 V91
- 11514 KOVALENKO, A. Mustard in Stalingrad Region. (In Russian.) *Sovet. Agron.* 8(8):87-89. Aug. 1950. 20 So84  
Culture.
- 11515 KRUGER. Liho-raps und sein anbau. *Hannoversche Land- u. Forstwirt. Ztg.* 103:693. Aug.5,1950. 18 H194
- 11516 NETHERLANDS. RIJKSINSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Winterkoolzaad, 1950 [Winter rape, 1950]. *Netherlands. Rinst. v. Rassenonderz. van Landbougewassen. Ber. over Rassenkeuze* 86,2 p. Aug.1950. 64.9 W12



- 11517 ROBINSON, D. H. Del huerto de un consulado. *Hacienda* 45(12):32-33. Dec.1950. 6 H11  
Tung nut culture in Argentina and Paraguay.
- 11518 SIMON, B. G. Maslichnye kul'tury Ukrainsof SSR (po dannym gosudarstvennykh sortouchastkov za 1938-1947 gg.) [Oil crops of Ukrainian SSR (from data of State variety plots for 1938-1947)]. Stanislav, "Prikarpat'skafa Pravda", 1949. 295 p. 77 S15
- 11519 SUZUKI, C. Natane to rakkasei zoshu-ho. [Improved crop of rape-seed and peanut]. Tokyo, Maruzen, 1950. 319 p. 64 Su9
- 11520 SYLVEST, J. H. Rape culture. (In Danish.) *Dansk Landbr.* 69:519-520. Oct.12,1950. 280.28 V91
- 11521 TEXAS. AGRICULTURAL EXPERIMENT STATION. A handbook of peanut growing in the Southwest. Tex. Agr. Expt. Sta. B. 727,31 p. Nov.1950. 100 T31S  
Oklahoma Agricultural Experiment Station cooperating, and issued as Bulletin B-361 of that Station.
- 11522 WEBER, C. R. It's here, the Blackhawk, an early maturing, erect variety fitted to seven Cornbelt states. *Soybean Digest* 11:18-19. Nov.1950. 60.38 So9  
Also in Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:67-69. Nov.1950. 275.28 Io94
- 11523 WEISS, M. G., and others. Variability of agronomic and seed compositional characters in soybeans, as influenced by variety and time of planting. U. S. D. A. Tech. B. 1017,39 p. Ref. Sept.1950. 1 Ag84Te  
C. R. Weber, L. F. Williams, and A. H. Probst, joint authors.
- 11539 MAIER, E. A. "What is the answer" an appraisal of varieties. *Sugar J.* 13(6):14-15,19. Nov. 1950. 65.8 Su391  
Sugarcane.
- 11540 MEL'NIK, M. K. The progressive [agronomical] practices of Kamennaf Steppe—on the [sugar] beet state farms. (In Russian.) *Sakh. Promysh.* 24(8): 43-45. Aug.1950. 65.8 Sa2
- 11541 ORTH, A. Die frische zuckerrübe als futtermittel. *Württemb. Wehnl. f. Landwirt.* 117:906-907. Sept.30,1950. 18 W96
- 11542 ROXAS, M. L., and others. The Reynoso (Java) system of sugar cane culture and soil conservation. *Soil Sci. Soc. Philippines. J.* 2:184-190. Third Q. 1950. 56.9 So35  
S. B. Oliveros, A. Q. Briones, and P. E. Enrtle, joint authors.
- 11543 SHEMIÁKINA, A. F. Effect of sugar beet seed quality on yields of roots. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriázeva. Dok.* 11:101-102. 1949. 20 M857
- 11544 SUN, V. G. The causes of the decrease of the available sugar percentage in the cane harvested from the Central Coastal Plain in Taiwan and some suggestions of recovering it. (In Chinese.) *Taiwan Sugar J. Q.* 3:134-156. Ref. Aug.1950. 65.8 T13  
English summary.
- 11545 SVEHOLM, B. Method of thinning sugar beets. (In Swedish.) *Forsk.- och Försöksresultat* 2:30-32. May 31,1950. 20 F77

### Sugar Crops

- 11524 AMARGÓS, J. L. El tratamiento de los retoños de la caña. *Tierra Libre* (ser.2)14(11):12-15. Nov. 1950. 8 T443
- 11525 BEAUCHAMP, C. E. La riqueza potencial del azúcar de caña. *Tierra Libre* (ser.2)14(7):10-13. July 1950. 8 T443  
Culture and processing.
- 11526 BREWBAKER, H. E. Single-germ beet seed a commercial possibility. *Through Leaves* 38(4):29-31. July/Aug.1950. 66.8 T41
- 11527 BRITISH WEST INDIES SUGAR TECHNOLOGISTS. Proceedings of the 1949 meeting, held at the Mill Reef Club, Exchange Bay, Antigua, September/October, 1949. Trinidad, 1949. 134 p. 65.9 B775
- 11528 THE CLIMATES and sugarcane cultivation in Szechwen Basin. (In Chinese.) *Taiwan Sugar J. Q.* 3:206-224. Aug.1950. 65.8 T13
- 11529 FLAMINI, B. Further observations on mono-germ beet seeds. (In Italian.) *Indus. Sac. Ital.* 43:193-198. Ref. July/Aug.1950. 65.8 In23
- 11530 GÜNTHER, E. Erfahrungen über die keimkraft von rübensamen. F. O. Licht. Internatl. Zuckerber. Zwischenber. 89(18):1-4. Sept.22,1950. 286.3659 L61
- 11531 HES, J. W. Java contributions to the physiology of the sugarcane. (In Dutch.) *Chron. Nat.* 106:285-288. Ref. June 1950. 514 B31
- 11532 HILLS, F. J. Factors affecting sugar yields in the woodland area. *Spreckels Sugar Beet B.* 14:42-45. Nov./Dec.1950. 66.8 Sp7
- 11533 JOHNSON, R. T. The role of plant breeding in sugar beet production. *Spreckels Sugar Beet B.* 14:45-46,48. Nov./Dec.1950. 66.8 Sp7
- 11534 KONINGSBERGER, V. J. Sugarcane. (In Dutch.) *Chron. Nat.* 106:252-254. June 1950. 514 B31  
Research in Indonesia.
- 11535 LEENHEER, L. DE, and SIMON, M. La production relative en betterave sucrière de différents types de polders marins en 1949. *Inst. Belge pour l'Amélior. de la Betterave.* P. 18:129-143. July/Aug.1950. 66.9 In7  
English summary.
- 11536 LI, H. W., CHENG, C. F., and LEUNG, T. C. Genetical analysis from the hybrids obtained in crossing POJ 2725 and *M[iscanthus] japonicus*. (In Chinese.) *Taiwan Sugar J. Q.* 3:88-109. Aug.1950. 65.8 T13  
English summary.
- 11537 LIMA, P. O. Field cultivation of sugarcane. (In Portuguese.) *Soc. Rur. Brasil. Rev.* 30(357):46-47. Aug.1950. 9.2 B733
- 11538 LÜDECKE, H. Beobachtungen während der diesjährigen wachstumszeit der rüben und die daraus zu ziehenden schlussfolgerungen. F. O. Licht. Internatl. Zuckerber. Ber. 89:97-99. Sept.15,1950. 66.8 L61A

### Tobacco

- 11546 CLOUGH, R. How to grow tobacco in your own garden. London, Ricardo, 1950? 4 p. 69 C62
- 11547 ELEAZER, J. M. The South's new tobacco. *Farm Q.* 5(4):48-49,128-130. Winter 1951. 6 F22995
- 11548 FISCHER, L. Schicksal der tabakpflanzung Batschenga in Kamerun. *Süddeut. Tabakztg.* 60(41):3. Oct.13,1950. 286.89 Su2
- 11549 HOME tobacco craft; garden operations month by month, curing and manufacturing. Dunmow, Essex, Tilty Abbey P., 1950. 48 p. (Smoker Annu, 1950) 69 H75
- 11550 HUNT, R. Double trouble for tobacco. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 65(11):18,145. Nov.1950. 6 P945K  
Culture and varieties.
- 11551 KING, G. H. Making every year a good tobacco year. *Prog. Farmer, Ga.-Ala.-Fla. Ed.* 65(11):18. Nov. 1950. 6 P945G
- 11552 MILTON, R. H. Next year's [tobacco] plant bed. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 65(11):24,145. Nov.1950. 6 P945K
- 11553 SCHWEIZER, J. Tobacco. (In Dutch.) *Chron. Nat.* 106:254-258. June 1950. 514 B31  
Culture and research in Indonesia.
- 11554 TEREKHOV, V. 51 centners of *Nicotiana rustica* per hectare. (In Russian.) *Kolkhoz. Proizvodstvo* 10(7):44. July 1950. 281.8 K83

### HORTICULTURAL CROPS

#### General

- 11555 AMERICAN ASSOCIATION OF NURSERYMEN. American standard for nursery stock. Washington, D. C., Amer. Standards Assoc., 1949. 22 p. 334 Am34
- 11556 AMERICAN ASSOCIATION OF NURSERYMEN. Proceedings of the seventy-fifth annual convention, July 16-20, 1950, Washington, D. C. n.p., 1950. 187 p. 81 Am3P
- 11557 BOTTING, H. L. Christchurch Boys' and Girls' Horticultural Society. Lincoln Col. Rur. Educ. B. 5:113-115. Aug.1950. 109 C162
- 11558 CAWTHRON INSTITUTE. Annual report, 1949-50. Nelson, N.Z., 1950. 46 p. 330.9 C31
- 11559 CONSERVATIVE POLITICAL CENTRE, LONDON. Conservative policy for British horticulture; a re-statement. London, 1950. 14 p. (P. 68) 281.390 C76
- 11560 COUTINHO, M. Notes on the care and preservation of gardens. (In Portuguese.) *Seleç. Agr.* 5(53):14-16, (To be cont.) Sept.1950. 9.2 Se4
- 11561 CRISP, B. Every gardener's good companion. n.p., Gulliver Books, 1950? 128 p. 90.52 C86



- 11562 FILLMORE, R. H. Amateurs should experiment with autumn propagation. *Horticulture* 28:372. Oct. 1950. 80 H787
- 11563 GARDENER, E. H. Horticulture in England and its future development. (In Dutch.) *Groenten en Fruit* 6:149. Aug. 31, 1950. 80 G89
- 11564 GLAZEBROOK, J. H. Plant propagation. 5. Budding. *Lincoln Col. Rur. Educ. B.* 5:142-146. Oct. 1950. 109 C162
- 11565 GUIAUCHAIN, P. Pour bien planter un arbre. *Algeria. Insp. Gén. et Dir. de l'Agr. Doc. et Renseign. Agr. B.* 161,6 p. 1950. 24 AL34
- 11566 HASTINGS, W. R. All-America changes and new sources. *South. Seedsman* 13(11):20,24. Nov. 1950. 61.8 So8
- 11567 HAWORTH-BOOTH, M. Garden climates and soils. *Country Life [London]* 108:1608. Nov. 10, 1950. 80 C83
- 11568 HERZOG, J. Die transpiration und der transpirationsstrom in beziehung zu gärtnerischen arbeiten. *Gartenbauwirtschaft [Wien]* 1950:169-170. July 25, 1950. 80 G1936
- 11569 HONIG, F. W. The state of horticultural study on January 1, 1950. (In Dutch.) *Netherlands. Dir van de Tuinbouw. Meded.* 13:385-390. July 1950. 86 N384
- 11570 HOYT, A. S. Some ways in which the work of the Bureau of Entomology and Plant Quarantine affects the nurserymen. *Amer. Assoc. Nurserymen Proc.* 75:121-128. 1950. 81 Am3P
- 11571 HUNKIN, J. W. Ninety years a gardener: Captain W. S. C. Pinwill of Trehane. *Roy. Hort. Soc. J.* 75:326-331. Aug. 1950. 84 L84J
- 11572 JENSEN, J. V. Garden colonies in Denmark. *Copenhagen, Danske Selskab, 1949.* 52 p. (Denmark Print and Pictures) 90.31 J45Ae
- 11573 JOUGAN, E. Comment abriter les cultures des vents violents ou froids. *Acclimatation* 77:252. Nov. 25, 1950. 14 Ac2
- 11574 KEMPERMAN, H. T. Lower horticultural school or horticultural courses. (In Dutch.) *Betuw. Tuinbouwbl.* 8(14):6-7. Sept. 16, 1950. 80 B464
- 11575 LAWRENCE, W. J. C. Down the drain or into the bank. *Grower [London]* 34:1047-1048. Nov. 18, 1950. 286.83 M34
- Horticultural methods
- 11576 MACCARESE. Notes on planting methods. (In Italian.) *Agr. Bresciana* 3(44):2,4. Nov. 1, 1950. 16 Ag89
- Fruit trees and ornamentals.
- 11577 MATHIEU, T. F. Experiences in summer transplanting of trees. *Arborist's News* 15:114-121. Oct. 1950. 99.8 Ar14
- 11578 MEILLAND, F. The protection of the commercialization of new roses. (In Flemish.) *Cult. en Handel* 16:597-599. Oct. 1950. 80 C892
- 11579 NATIONAL ALLOTMENTS AND GARDENS SOCIETY. Annual report for the year 1949-50; accounts and balance sheet for the year ended 31st December, 1949. *London, 1950.* 18 p. 282.9 N214
- 11580 NATIONAL ALLOTMENTS & GARDENS SOCIETY. 1951 allotment holders' and gardeners' pocket companion. *London, 1950.* 40 p. 282.9 N214A
- 11581 NEWSHAM, J. C. The horticultural notebook. Ed. 4, rev. by W. E. Shewell-Cooper. *London, Tech. Press, 1950.* 418 p. 90.02 N47
- 11582 NICOLAISEN, N., and MACHERAUCH, O. Garten ABC; ein wegweiser für die anlage und bewirtschaftung eines selbstversorger-gartens. München, Bayerischer Landwirtschaftsverlag, 1950. 79 p. 90.3 N54
- 11583 ORTIZ, G. Breve reseña sobre horticultura. *Paraguay. Min. de Econ. Cart. Agropecuaria* 138/140: 5-14. Apr./June 1950. 9.7 Ec72
- 11584 SHEWELL-COOPER, W. E. The complete gardener. *London, Collins, 1950.* 734 p. 90.1 Sh52C
- 11585 SHEWELL-COOPER, W. E. Gardening for profit; the private gardener must be prepared to make radical changes. *Field* 196:307. Aug. 19, 1950. 10 F45
- 11586 SHEWELL-COOPER, W. E. Horticultural advice. *Estate Mag.* 50:408-410. Oct. 1950. 10 Es8
- 11587 SHEWELL-COOPER, W. E. Horticulture in Austria; new ideas from the University of Vienna. *Field* 196:643. Oct. 14, 1950. 10 F45
- 11588 SMIRNOV, V. S. Experimental work on the school plot. (In Russian.) In Shibano, A. A., comp. *Sbornik statei po voprosam Michurinskoi biologii*, p. 210-216. Moskva, Ministerstvo Prosveshcheniia RSFSR, 1950. 442 Sh6S
- 11589 SÖRLIN, A. Trädgårdsbotanik; praktisk handledning för amatörer och yrkesmän [Garden botany; practical guide for amateurs and professionals]. Stockholm, Natur Och Kultur, 1950. 322 p. 459.1 So6
- 11590 SWIM, H. C. The importance of research in the nursery industry. (Excerpts.) *Pacific Coast Nurseryman* 9(9):23,48-50. Sept. 1950. 80 P116
- Chiefly fruit.
- 11591 U. S. EXTENSION SERV. Extension work in horticulture. *Washington, 1950.* 9 p. 1.913 P3H27
- 11592 VILA HERNANDEZ, C. F. Campaña de fomento horticola. *Rev. Agropecuaria del Perú* 1(2):48-49. Apr./June 1950. 9.8 R322
- 11593 VINCENT, S. La protection des plantes contre l'hiver. *Foyer Rur. [Montreal]* 10(2):7. Nov. 1950. 7 F83
- 11594 WALL, G. M. A look at British orcharding. *Family Herald & Wk. Star* 81(45):6. Nov. 9, 1950. 7 F21
- 11595 WESTERN CANADIAN SOCIETY OF HORTICULTURE. Report of proceedings of the sixth annual meeting, Winnipeg, Manitoba, February 23-25, 1950. n.p., 1950. 86 p. 82 W522
- 11596 WIGHT, J. Panel: labor saving devices in nursery stock production. *Amer. Assoc. Nurserymen Proc.* 75:96-106. 1950. 81 Am3P
- 11597 YEAGER, A. F. Breeding improved horticultural plants. II. Fruits, nuts, and ornamentals. *N. H. Agr. Expt. Sta. B.* 383,16 p. June 1950. 100 N45
- Fruits--General
- 11598 ACERETE, A., and JIMENEZ, L. Frutas y frutales. *Agricultura [Madrid]* 19:462-465. Oct. 1950. 15 Ag84
- 11599 ALEKSANDROV, F. A., and GEZHOVSKAIA, O. A. Fruit growers—Michurinites of Gorkii Region. (In Russian.) *Sad i Ogorod* 1950(8):62-63. Aug. 1950. 80 Sa13
- 11600 AUBERT, P. Arbres tiges ou demi-tiges? *Rev. Romande d'Agr., de Vitic. et d'Arbor.* 6:70. Sept. 1950. 17 J82A
- 11601 AUBERT, P. Faut-il planter des arbres greffés ou des sujets porte-greffes à écussonner sur place? *Rev. Romande d'Agr., de Vitic. et d'Arbor.* 6:68-69. Sept. 1950. 17 J82A
- 11602 AUWERA, G. VAN DER. The exhibition of hothouse fruit at Jezus-Eik (Overijse). (In Flemish.) *Tuinbouwberichten* 14:135-136. Sept. 15, 1950. 80 T817
- 11603 BEILMANN, A. P. Fruit growing for the home orchard. *Mo. Bot. Gard. B.* 38:132-137. Sept. 1950. 451 M69B
- 11604 BEVILACQUA, I. Fruit culture: considerations and directives. (In Italian.) *Campagnolo* 5(9):1-2. Sept. 1950. 16 C15
- 11605 BRANZANTI, E. C. On new fruit plantings. (In Italian.) *Riv. di Fruttic.* 12:235-238. Oct. 1950. 80 R52
- 11606 CHANASYK, V. Tree fruit trials at Beaver Lodge. *West. Canad. Soc. Hort. Rpt. Proc.* 6:39-41. 1950. 82 W522
- 11607 CHERNIAEV, I. P. Tavlinka—the apple of mountaineers [in Northern Caucasus]. (In Russian.) *Sad i Ogorod* 1950(8):75. Aug. 1950. 80 Sa13
- 11608 EVANS, W. D. The Cooperative Fruit-Breeding Program. *West. Canad. Soc. Hort. Rpt. Proc.* 6:29-30. 1950. 82 W522
- 11609 GANDHI, S. R. Effect of buttress grafting on growth and development of orchard trees. *Poona Agr. Col. Mag.* 41:23-44. June 1950. 22 P79
- 11610 GLERUM, J. A. Harvesting and storage. (In Dutch.) *Fruitteelt* 40:618. Aug. 17, 1950. 86 N28
- Fruit.
- 11611 HOBLYN, T. N. Research on fruit tree rootstocks. *Brit. Agr. B.* 3:103-111. Ref. Summer 1950. 10 B776
- 11612 HUME, W. G. The renovation and grubbing of old orchards. *Worcestershire Agr. Chron.* 18:305, 307, 309, 311, 313, 315, 317. Aug./Oct. 1950. 10 W892
- 11613 JOUGAN, E. Courants d'air et plantations fruitières. *Acclimatation* 77:231. Oct. 28, 1950. 14 Ac2



- 11614 JOUGAN, E. L'orientation de la greffe et des tailles de formation. *Acclimatation* 77:262. Dec.9,1950. 14 Ac2  
Fruit.
- 11615 JOUGAN, E. Pour bien conserver les fruits. *Acclimatation* 77:199. Sept.16,1950. 14 Ac2  
Harvesting times for different varieties.
- 11616 KALKMAN, P. Fruit harvesting. (In Dutch.) *Fructiteelt* 40:611-612. Aug.17,1950. 86 N28
- 11617 LARSEN, G. H. La pépinière fruitière. *Algéria. Insp. Gén. et Dir. de l'Agr. Doc. et Renseign. Agr.* 5. 82,39 p. Dec.1949. 24 AL34
- 11618 LAVEZZINI, A. Fruit culture in Parma. (In Italian.) *Avvenire Agr.* 58:230-238. Oct.1950. 16 Av9
- 11619 LEGHIS, L. M. Le verger de l'amateur. *Paysan* 26(394):12-13. Oct.1950. 14 P29
- 11620 LESLIE, W. R. Cooperative Fruit-Breeding Project. *West. Canad. Soc. Hort. Rpt. Proc.* 6:28-29. 1950. 82 W522
- 11621 LOEWEL, Die neuesten ergebnisse auf dem gebiete des obstbaues. *Hannoversche Land- u. Forst-wirt. Ztg.* 103:769,794-796. Sept.2-9,1950. 18 H194
- 11622 LUNDIN, Y. Fruktodling [Fruit culture]. *Kristianstad, LT:s Korrespondensskola*, 1950. 164 p. 93.27 L97
- 11623 MAGNESS, J. R. New fruits and their regional adaptability. *Amer. Assoc. Nurserymen Proc.* 75:76-81. 1950. 81 Am3P
- 11624 MATTUSCHKA, T. Kärntner obstbaumschüler auf lehrfahrt in die Steiermark. *Kärntner Bauer* 100. 336,338. Sept.15,1950. 19 K14
- 11625 MOCHALOV, V. Z. On bud-grafting [of fruit trees]. (In Russian.) *Sad i Ogorod* 1950(8):45-47. Aug. 1950. 80 Sa13
- 11626 NILSSON-LEISSNER, G. Observation on the problem of fruit pollination. (In Swedish.) *Sveriges Pomol. För. Fruktdiaren* 1950:154-155. 86 Sv2F  
Artificial pollination.
- 11627 NONNECKE, I. L. Fruit breeding. *West. Canad. Soc. Hort. Rpt. Proc.* 6:30-32a. 1950. 82 W522
- 11628 ODINTSOV, V. A. Peredovoĭ opyt plodovo-godnykh pitomnikov [Leading practices in fruit and berry nurseries]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 135 p. 93.28 Od3
- 11629 PATTERSON, C. F. Fruit development at the University of Saskatchewan. *West. Canad. Soc. Hort. Rpt. Proc.* 6:37-39. 1950. 82 W522
- 11630 POSTAL, D. Criteria of the Fruit Culture Commission. (In Italian.) *Agr. Trent.* 4(7):1-2. Apr.1, 1950. 16 Ag8263
- 11631 ROSAND, J. Le choix des variétés. *Révell Agr.* 59:261. Sept.1,1950. 14 R322  
Fruit.
- 11632 ROSAND, J. Les variétés précoces. *Révell Agr.* 59:294. Oct.1,1950. 14 R322  
Fruit.
- 11633 SHEWELL-COOPER, W. E. Modern fruit growing; good grass and constant mowing are the new order. *Field* 196:597. Oct.7,1950. 10 F45
- 11634 SILORET, G. Surface portante, surface foliaire et activité foliaire. *France. Min. de l'Agr. B. Tech. d'Inform.* 53:641-646. Oct.1950. 14 F844B  
Method of comparing yields of fruit trees.
- 11635 TRAWENJ, F. J. Feldschutzstreifen der Feldfrucht-MTS Demin. *Nat. u. Nahr.* 4(13/14):4-6. July 1950. 80 N218  
U. S. S. R.
- 11636 TRENORDEN, L. My observations of orchards in parts of Victoria and N.S.W., and some comparisons with our own [South Australia]. *Grower [Adelaide]* 5(3): 32,35. Sept.1950. 80 G912
- 11637 VALENTINO, C. An important current problem in Trentina fruit culture. (In Italian.) *Agr. Trent.* 4 (5):1. Mar.1,1950. 16 Ag8263  
Varieties.
- 11638 WILKINSON, B. R. Fruit breeding at Morden. *West. Canad. Soc. Hort. Rpt. Proc.* 6:33-34. 1950. 82 W522
- 11640 CAMERON, A. E. Frost prevention investigations. *Austral. Dried Fruits News* 25(10):11. July 1950. 286.83 Au72  
Citrus.
- 11641 CAMERON, A. E. Question of alternate cropping. *Orchardist New Zeal.* 23(7):31-32. Aug.7,1950. 80 Or19  
Valencia oranges.
- 11642 CAMERON, A. E. Wind machines; Victorian Central Association contributes to cost of improved type for frost control. *Citrus News* 26:132. Sept.1950. 80 C494
- 11643 EVREINOFF, V. A. Le litchi. *Fruits d'Outre Mer* 5:325-333. Oct.1950. 80 F9492
- 11644 FEDOROV, M. A. Experiment in olive propagation. (In Russian.) *Sad i Ogorod* 1950(8):64-67. Aug. 1950. 80 Sa13
- 11645 GILARDI, C. A. El cultivo del naranjo. *Lima, 1950?* 11 p. 93.331 G37
- 11646 HARMANN, H. P. Ensayos de incisión en los olivos al objeto de determinar la mejor época y método para obtener su fruto. *Siembra [Madrid]* 6(8/9):44-45. Aug./Sept.1950. 15 S11
- 11647 JOHNSTON, J. C. Orange fruit size; five-year study of small fruit size covered 429 groves in six counties. *Calif. Agr. [Calif. Sta.]* 4(11):12. Nov.1950. 100 C12Cag
- 11648 LUCIE-SMITH, M. N. Some notes on the avocado. *Agr. Soc. Trinidad & Tobago. Proc.* 50:201-208. June 1950. 8 T73  
Culture.
- 11649 MURRAY, D. B. Coconut growing in Trinidad & Tobago. *Agr. Soc. Trinidad & Tobago. Proc.* 50:193-200. June 1950. 8 T73
- 11650 NAUDÉ, C. J., and MALAN, E. F. Propagation of citrus. *Farming So. Africa* 25:277-280,301. Sept.1950. 24 So842
- 11651 NESTERENKO, G. A., and STREBKOV, A. Granat [Pomegranate]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1949. 54 p. 93.49 N37
- 11652 NESTERENKO, G. A., and STREBKOV, A. D. Inzhir [The fig]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1949. 83 p. 93.44 N37
- 11653 NIAZ ALI, C. Pruning of sweet orange (Malt) trees in the Punjab. *Punjab Fruit J.* 14(47):7-10. Jan.1950. 80 P962
- 11654 PARRINI, U. Cultivation of citrus in Tripolitania. (In Italian.) *Libia Agr.* 11:1-2. Oct.1,1950. 24 L61
- 11655 PRATT, R. M. New field work in citrus research. *Citrus Indus.* 31(11):8. Nov.1950. 80 C49  
Florida.
- 11656 REBOUR, H. Les agrumes en Afrique du Nord Ed. 3. *Alger, Union des Syndicates des Producteurs d'Agrumes*, 1950. 502 p. 93.33 R24A
- 11657 RENAUD, M. Memorandum du moniteur de taille. *Algérie. Insp. Gén. et Dir. de l'Agr. Doc. et Renseign. Agr. B.* 160,32 p. 1950. 24 AL34  
Citrus.
- 11658 RUTHERFORD, D. M. Behind the scenes at Sespe. *Calif. Citrog.* 36:76-77,80-81. Dec.1950. 80 C125  
Orange growing in Ventura County.
- 11659 RYBIN, V. A. Sposob ukoreneniia sazhentsev fitrusovykh kul'tur [Method for rooting cuttings of citrus]. *Simferopol', Krymizdat*, 1950. 21 p. 93.33 R96
- 11660 SLOAN, G. D. Some observations on grove practices. *Citrus Mag.* 13(3):23. Nov.1950. 80 C498
- 11661 TAMMES, P. M. L. Coconuts. (In Dutch.) *Chron. Nat.* 106:265-267. June 1950. 514 B31  
Culture in Indonesia.
- 11662 TINDALE, G. B. Storage experiments: poorer keeping properties of Navels and Valencias from trees on Citronelle stock. *Citrus News* 26:134-135,137. Sept. 1950. 80 C494
- 11663 ZANOTTI, L. The German markets require seedless oranges. (In Italian.) *Terra e Sole* 98:327-329. Oct.1950. 16 T273  
Italian varieties.

## Fruits--Citrus and Subtropical

- 11639 ARMSTRONG, P. S. Heating citrus orchards. *Fruit & Veg. Rev.* 12(8):20. Nov.1950. 80 C1224

## Fruits--Deciduous

- 11664 ANDRESEN, A. Apfelsorten [Apple varieties]. *Stuttgart, Kosmos*, 1950. 103 p. 93.31 An2



- 11665 BRECEY, J. Voici un choix de pommes de table précoces. *Monit. Agr.* 3(131):18. Oct.15,1950. 14 M744
- 11666 BRECEY, J. Voici un choix de pommes de table tardives. *Monit. Agr.* 3(135):4. Nov.12,1950. 14 M744
- 11667 BROOKE, J. Outdoor peaches do well as bushes. (Sum.) *Grower [London]* 34:933,935. Nov.5, 1950. 286.83 M34
- 11668 CANDIOLI, P. Winter pruning of apple trees. (In Italian.) *Informatore Agr.* 6:142. Sept.15,1950. 281.8 In32
- 11669 CANDIOLI, P. Winter pruning of cherries and minor fruit species. (In Italian.) *Informatore Agr.* 6:151. Oct.1,1950. 281.8 In32
- 11670 CARLONE, R. The use of plant hormones to prevent premature fruit drop. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:232-234. Sept.15,1950. 16 C72 Apples.
- 11671 CHANDLER, N. Dwarf fruit trees. *Org. Gard.* 17(5):52-53. Nov.1950. 56.8 Or3
- 11672 CRINS, W. H. The profusion of fruit on apple and pear trees in 1949. (In Dutch.) *Fruiteelt* 40:616-617. Aug.17,1950. 86 N28
- 11673 CURTIS, C. H. Hugh Ronalds and his apples. *Gard. Chron.* 128:140. Sept.30,1950. 80 G182
- 11674 DEBOR, H. W. Mehr qualit tsobst durch lichte kronen. *Gartenjahr* 5:36-37. Mar.1950. 80 G1932
- 11675 DEBOR, H. W.  berwachungsschnitt oder auslichten? *Gartenjahr* 5:67-68. May 1950. 80 G1932
- 11676 GERRITSEN, C. Is summer pruning necessary? (In Dutch.) *Volkstuin* 33:99. Sept.1950. 80 V88 Fruit.
- 11677 HERINGA, J. N., and BOEKE, J. E. Give me a red one rather! (In Dutch.) *Fruiteelt* 40:615. Aug.17, 1950. 86 N28 Apples.
- 11678 HORN, W. Standardware auch im obstbau! *Gartenjahr* 5:38-39. Mar.1950. 80 G1932
- 11679 HORN, W. Das umpfropfen  lterer obstb ume bedeutet sortenvereinheitlichung und leistungssteigerung im obstbau. *Gartenjahr* 5:54-56. Apr.1950. 80 G1932
- 11680 HUBBARD, W. W. A review of eighty years in New Brunswick apple orchards. *Marit. Farmer & Co-op. Dairyman* 56(3):3,41-42. Nov.7,1950. 7 C77
- 11681 JOHANSSON, E. Measures for improving quality in apple growing. (In Swedish.) *Sveriges Pomol. F r Fruktdiaren* 1950:157-160. 86 Sv2F
- 11682 JOHANSSON, E. Sort- och grundstamf rs k med  pple II vid Alnarp [Variety and rootstock trial in apples II at Alnarp]. *Alnarps. Lantbr.-Mejeri- och Tr dg rdsinst. Staf. Tr dg rdsf rs k. Meddel.* 59,10 p. 1950. 86 AL64 English summary.
- 11683 JOUGAN, E. La forme en Vou croisillon, joliet pratique. *Acclimatation* 77:216. Oct.7,1950. 14 Ac2 Apples and pears.
- 11684 JOUGAN, E. Quels poiriers cultiver   hautes tiges? *Acclimatation* 77:242,247. Nov.11-18,1950. 14 Ac2
- 11685 KEMMER, E. Grunds tzliches zur kronengestaltung im obstbau. *Gartenjahr* 5:99-100. July 1950. 80 G1932
- 11686 LANGE, P. Die apfelsorte "Anhalter." *Gartenjahr* 5:68-69. May 1950. 80 G1932
- 11687 LOUVAIN, P. La culture du pommier en Provence. *R veil Agr.* 59:262. Sept.1,1950. 14 R322
- 11688 LOUVAIN, P. Le pommier dans le Midi. *R veil Agr.* 59:294-295. Oct.1,1950. 14 R322
- 11689 MCGILLIVRAY, K. D. Contour planting on Central Coast citrus orchards. *Agr. Gaz. N. S. Wales* 61:457-460,462. (Concl.) Sept.1,1950. 23 N472
- 11690 MANARESI, A. Observations on the stocks used for grafting fruit trees in Emilia and Romagna. 1. Apricot. (In Italian.) *Riv. di Fruttic.* 12:169-182. Ref. Oct.1950. 80 R52 English summary.
- 11691 MAURER, K. J. A 2 - eine neue frostresistente apfel-unterlage. *Gartenjahr* 5:100-101. July 1950. 80 G1932
- 11692 MEISSNER, K. Durch einfache schnittmethoden zum naturgem ssen kronenbau. *Gartenjahr* 5:83-84. June 1950. 80 G1932
- 11693 MEISSNER, K. Grundlagen des kronenbaues und kronenschnittes. *Gartenjahr* 5:51-52. Apr.1950. 80 G1932
- 11694 OBERHAUSER. Das obstgut Talhof. *Gartenjahr* 5:40. Mar.1950. 80 G1932
- 11695 POSTAL, D. Mantuan Rose and Caldaro Rose. (In Italian.) *Ital. Agr.* 87:617-618. Oct.1950. 16 It1 Apple varieties.
- 11696 REIMER, C. The apple rootstock A 2. (In Norwegian.) *Gartneryrket* 40:717-718. Oct.14,1950. 80 G1938
- 11697 RICCI, A. A superior early peach: Madame Kira Evreinoff. (In Italian.) *Riv. di Fruttic.* 12:239-242. Oct.1950. 80 R52
- 11698 ROACH, F. A. True stocks for plums. *Nurseryman & Seedsman* 111:1032-1033. Oct.19,1950. 80 N933
- 11699 ROACH, F. A. Vigorous apple stocks. *Nurseryman & Seedsman* 111:656-657. Sept.14,1950. 80 N933
- 11700 SANNIKOV, V. S. Effect of rootstocks on quality of plums. (In Russian.) *Sad i Ogorod* 1950(8):47-50. Aug.1950. 80 Sa13
- 11701 SCHMIDT, H. Vogelkirschen als kirschenunterlagen. *Gartenjahr* 5:103. July 1950. 80 G1932
- 11702 SCHULZ, F. Das ausd nnen des fruchtsatzes. Ed. 2. Berlin. U. Inst. f. Obstbau. *Merkbl.* 11, 13 p. May 1950. 93.6 B45
- 11703 SHAH, S. M. I. Influence of the number of trees per plot on the precision of peach yield trials. *Punjab Fruit J.* 14(47):17-22. Jan.1950. 80 P962
- 11704 SHITT, P. G. Abrikos; biologicheskie osnovy i puti postroeniya peredovoi agrotekhniki [Apricots; biological principles and methods of planning the latest cultural practices]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 70 p. 93.39 Sh6
- 11705 SMITH, C. F. Name this apple. *Country Life [London]* 108:1687. Nov.17,1950. 80 C83
- 11706 SOUSA, J. S. I. DE. Fruit cultural matters of the day: the culture of apples. (In Portuguese.) *Chacaras e Quintais* 82:442-444. Oct.15,1950. 9.2 C34
- 11707 STR TVEIT, M. Selection of fruit tree varieties for West Norway. (In Norwegian.) *Kolonihagen* 20:107-109. Sept.1950. 80 K83
- 11708 SURMORIN. Comment doit-on recoler les pommes? *Rustica* 23:809. Sept.24,1950. 14 R92
- 11709 TARASENKO, M. T. Some peculiarities of [apple] seedlings of Michurinit varieties in the second generation. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. Timir zeva. Dok.* 11:232-240. 1949. 20 M857
- 11710 U. S. PATENT OFF. Plant patents. 3 Nos. 1950. 156.65 P69 Contents: 966. Vetter, J. Peach tree. 2 p., 1 col. pl. July 18; 972. Metzger, L. Apple tree. 1 p., 1 col. pl. Aug. 15; 974. Anderson, F. W. Nectarine tree. 2 p., 1 col. pl. Aug. 22.
- 11711 VISSER, J. Fruit harvesting. (In Dutch.) *Betuws Tuinbouwl.* 8(13):3-4. Sept.2,1950. 80 B464
- 11712 WALRAVENS, V. Arboriculture fruiti re au jardin fruitier. *B. Hort. (n.s.)* 5:236-238. Aug.1,1950. 80 B872
- 11713 WELS. Die nachbehandlung umpfropfter b ume w hrend des sommers. *Gartenjahr* 5:102-103. July 1950. 80 G1932
- 11714 WILKINSON, B. R. Rootstocks for prairie tree fruits. *West. Canad. Soc. Hort. Rpt. Proc.* 6:41-44. 1950. 82 W522
- 11715 WRIGHT, P. H. From northern proving grounds, hardy Canadian apples. *Horticulture* 28:367. Oct.1950. 80 H787
- 11716 ZHAVORONKOV, P. A. New cold-resistant apple varieties for Southern Ural. (In Russian.) *Agrobiologiya* 1950(4):94-99. July/Aug.1950. 20 Ag822
- 11717 ZHAVORONKOV, P. A. Zimostofkie fabloni i grushi na Urale [Frost resistant apples and pears in the Ural Region]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 198 p. 93.28 Z62

## Fruits--Small

- 11718 AMERICAN CRANBERRY GROWERS' ASSOCIATION. Proceedings of the eighty-first annual convention, Pemberton, New Jersey, August 31, 1950. n.p., 1950. 23 p. 81 Am35C



- 11719 BAUER, W. Kleine rebsortenkunde. Österr. Weinztg. 5:182,190,196-197. (Cont.) Sept.10-30,1950. 390.8 Os7
- 11720 BEIJERINCK, W., and PELKWIJK, A. J. TER. The most important brambles in the Drenthe district. (In Dutch.) (To be cont.) Levende Nat. 53:167-172. Sept.1950. 410 L57
- 11721 BINSTADT, Winzer, legt rebschnittgärten an Landbote 4(38):3. Sept.23,1950. 18 L2336 Germany.
- 11722 BITTNER, C. S., and NICHOLS, L. P. Growing small fruits for home use. Pa. State Col. Agr. Ext. C. 368,12 p. Oct.1950. 275.29 P38C
- 11723 BRYNTSEVA, M. A. Rodnoi strane [For our country]. Simferopol', Krymizdat, 1949. 47 p. 95.4 B84 Grape culture.
- 11724 CANADA DEPT. OF AGRICULTURE. Strawberry growing. Canada Dept. Agr. C. 184,14 p. Aug. 1950. 7 C16C
- 11725 CLAVE, H. Multiples et originales conduites de la vigne en Italie. Rustica 23:895. Oct.22,1950. 14 R92
- 11726 COUILLENS. Voyage d'études viticoles. Terre d'Oc 32:388-394. Sept.1950. 14 Ar5
- 11727 COULONDRE, E. Rapport de synthèse des meilleurs hybrides. Réveil Agr. 59:307-308. Oct.15, 1950. 14 R322 Grapes.
- 11728 COULONDRE, E. Rapport et considérations sur les gelées. Réveil Agr. 59:292-293. Oct.1,1950. 14 R322 In grape culture.
- 11729 DALMASSO, G. New Russian grape stocks. (In Italian.) Ital. Agr. 87:543-544. Sept.1950. 16 It1
- 11730 DOEHLERT, C. A. Cranberry picking methods and costs per barrel. Amer. Cranberry Growers' Assoc. Proc. Annu. Conv. 81:6-10. 1950. 81 Am35C
- 11731 DUKHANIN, K. S. Vinograd v Moskovskoy oblasti [Grapes in Moscow Region]. Moskva, Moskovskiy Rabochiy, 1950. 76 p. 95.4 D88
- 11732 GALIBERT, A. Les meilleures hybrides muscats pour la table. Réveil Agr. 59:273-274. Sept.15, 1950. 14 R322
- 11733 GILS, C. A. M. A. VAN. The fruit set of Jucunda. (In Dutch.) Boer en Tuinder 4(188):4. Aug.26, 1950. 12 B632 Strawberries.
- 11734 GROENEVELD, C. Care of newly planted strawberries. (In Dutch.) Betuws Tuinbouwbl. 8(13):5. Sept.2,1950. 80 B464
- 11735 GRUZDOV, S. F., and SMOL'YANINOVA, N. K. Malina i ezhevika [Raspberries and dewberries]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 199 p. 94.25 G29
- 11736 HALL, C. J. 1850's find growers troubled with "the rot" and insects. Cranberries 15(7):13-17. (Cont.) Nov.1950. 80 C852
- 11737 JEANSON, P. La plantation du vignoble. Monit. Agr. 3(133):7. Oct.29,1950. 14 M744
- 11738 KORCHAGINA, V. Razvodite michurinskiy vinograd i novye sorta [Cultivate Michurinites grapes and new berry varieties]. Moskva, Ministerstvo Prosveshcheniya RSFSR, 1950. 47 p. 95.4 K84
- 11739 KUZNETSOV, V. G. Vinogradarstvo v Krasnodarskom krae [Grape culture in Krasnodar Region]. Ed. 2, rev. Krasnodar, Kraevoe Kn-vo, 1950. 93 p. 95.4 K96
- 11740 LJONES, B. Maturity and harvesting season for strawberries. (In Norwegian.) Gartneryrket 40:654-655. Sept.16,1950. 80 G1938
- 11741 LUK'YANOV, A. D. Gathering the grape harvest on collective farms. (In Russian.) Sad i Ogorod 1950(8):68-70. Aug.1950. 80 Sa13
- 11742 MACHERAUCH, O. Kritik der erdbeersorten. Deut. Baumsch. 2:190-193. Aug.1,1950. 80 D486
- 11743 MILLER, A. J. Cranberries are in season. Fruit & Veg. Rev. 12(8):11. Nov.1950. 80 C1224
- 11744 MISPIRETA, C. A. Propagación de la vid por el sistema de injertación. Rev. Agropecuaria del Perú 1(2):33-40. Apr./June 1950. 9.8 R322
- 11745 MORETTI, A. A grape culture practice that is not always useful. (In Italian.) Humus 6(8):27-29. Aug.1950. 16 H88 Pruning.
- 11746 MORROW, E. B., and DARROW, G. M. The Murphy and Wolcott blueberry varieties. N. C. Agr. Expt. Sta. Spec. C. 10,7 p. June 1950. 100 N81Sp
- 11747 NIGHTINGALE, A. E. Grapes. Atlantic Co. Vocat. B. 25,i.e.30(3):2-3. (To be cont.) Dec.1950. 6 At62 Varieties and culture.
- 11748 NIVEN, L. A. What's new about muscadine grapes. Prog. Farmer, Tex. Ed. 65(11):80-81. Nov.1950. 6 T311
- 11749 NYHLÉN, Å. Försök med jordgubbar vid Nyckelby under åren 1944-1948 [Strawberry experiments at Nyckelby during the years 1944-1948]. Alnärps. Lantbr.-Mejeri- och Trädgårdst. Stat. Trädgårdsförsök. Meddel. 57,18 p. 1950. 86 AL64 English summary.
- 11750 OLMO, H. P. Giant-berry grapes; principles of genetics employed to propagate varieties producing berries of larger size. Blue Anchor 27(4):13,36. Nov. 1950. 286.83 B62
- 11751 OVERCASH, J. P., WALTON, L., and HURT, B. C. Muscadine varieties are compared; several prove well adapted for State. Miss. Farm Res. [Miss. Sta.] 13(10):1,5. Oct.1950. 100 M69M1
- 11752 RAPHAEL, T. D. Berry fruit culture. Fruit World & Mkt. Grower 51(9):27,29. (To be cont.) Sept.11, 1950. 80 F948
- 11753 RAWSON, G. Strawberry culture. Tasmanian Fruitgrower & Farmer 27(323):29,31. July 31,1950. 23 T185
- 11754 ROEVER, W. E. New early strawberry, Tennessee, can make 382 crates per acre. South. Seedsman 13(11):50. Nov.1950. 61.8 So8
- 11755 RUBIN, S. M. To increase the output of grape planting stock. (In Russian.) Sad i Ogorod 1950(8):70-74. Aug.1950. 80 Sa13
- 11756 SCHMIDT, H. Ertragssteigerung bei erdbeeren durch auslese von besträgern. Gartenjahr 5:85-86. June 1950. 80 G1932
- 11757 SCHMIDT, H. Sachgemässe beerenobsternte. Gartenjahr 5:87-88. June 1950. 80 G1932
- 11758 SHEREMET, I. A. Propagation of currants. (In Russian.) Sad i Ogorod 1950(8):50-52. Aug.1950. 80 Sa13
- 11759 SPOOR, P. A. The coming harvest of greenhouse grapes. (In Dutch.) Fruitteelt 40:613-614. Aug.17, 1950. 86 N28
- 11760 STAADUINE, D. VAN. Muscat grape from Alexandria.VIII. (In Dutch.) Groenten en Fruit 6:198. Sept.21,1950. 80 G89
- 11761 STATUTI, M. Grapes grown alone or in conjunction with other crops in mountain areas. (In Italian.) Campagnolo 5(9):4. Sept.1950. 16 C15
- 11762 STATUTI, M. A propos of the Sorbarese. (In Italian.) Campagnolo 5(11):4. Nov.1950. 16 C15 Grape variety.
- 11763 TRECCANI, C. P. Paraffin with low melting point in attaching the scion to the grape stock. (In Italian.) Riv. di Fruttic. 12:226-234. Oct.1950. 80 R52 English summary.
- 11764 VATTERONI, F. Pruning trellised grapes. (In Italian.) Agr. Tosc. 5:419. Nov.1950. 16 Ag827
- 11765 WELLINGTON, R. French hybrids, new grape possibilities. Farm Res. [N. Y. State Sta.] 16(4):14. Oct. 1950. 100 N48A
- 11766 ZALADNOVA, A. P. Effect of pruning shoots on cold resistance of raspberry. (In Russian.) Sad i Ogorod 1950(8):76. Aug.1950. 80 Sa13

## Nuts

- 11767 BUSH, R. Late walnut varieties suit our climate best. Grower [London] 34:1054-1055,1057. Nov.18,1950. 286.83 M34
- 11768 CRANE, H. L. The problems of irregular crops and low nut quality in pecan production. Soeast. Pecan Growers Assoc. Proc. 43:40-42,44-46,48-49,52-53. 1950. 94.69 G29 Includes discussion.
- 11769 CROCE, F. M. Poda del avellano. Pampa Argentina 23(274):12. Sept.1950. 9 P19
- 11770 EVREINOFF, V. A. Sur l'introduction de Corylus heterophylla ou noisetier de Sibérie dans l'arboriculture française. Terre d'Oc 32:456-459. Oct. 1950. 14 Ar5



11771 HUNTER, J. H. Some interrelationships of cultural practices, fertilization, and the production of quality pecan nuts. Southeast. Pecan Growers Assoc. Proc. 43:78-80, 82-83, 85-86. 1950. 94.69 G29

11772 KALMYKOV, S. S. Some new data on Vavilov's almond tree, *Amygdalus vavilovii* M. Pop. (In Russian.) Bot. Zhur. 35:186-188. Ref. Mar./Apr.1950. 451 R923

11773 MACDANIELS, L. H. Better nut trees for Northeastern farms. Amer. Agr. 147:621, 626. Nov.18, 1950. 6 Am3

Varieties and culture.

11774 SEIBERT, R. J. A black walnut [*Juglans neotropica*] for Central America. Ceiba 1:190-192. Oct.31, 1950. 475 C32

11775 SORBER, D. G., and KIMBALL, M. H. Use of ethylene in harvesting the Persian walnut (*Juglans regia*) in California. U. S. D. A. Tech. B. 996, 80 p. Ref. Aug.1950. 1 Ag84Te

11776 SOUTHEASTERN PECAN GROWERS ASSOCIATION. Proceedings of the 43rd annual convention, held at Radium Springs, February 15th, and 16th, 1950, Albany, Georgia. Albany, Georgia, 1950. 100 p. 94.69 G29

#### Shade Trees and Ornamental Plants

11777 ACKERMAN, W. Success with house plants. Org. Gard. 17(5):36-37. Nov.1950. 56.8 Or3

11778 AFRICAN VIOLET SOCIETY OF AMERICA. Proposed by-laws to be voted on at the regular annual meeting, May 13, 1950. n.p., 1950? 12 p. 96.06 Af8P

11779 ALLEN, H. T. Ornamental trees and shrubs. West. Canad. Soc. Hort. Rpt. Proc. 6:54-56. 1950. 82 W522

11780 ANDERSON, A. W. The coming of the flowers. London, Williams and Norgate, 1950. 267 p. 90.51 An2

11781 ATZE, F. N. Dahlia growing. So. Austral. Dept. Agr. J. 54:47-48. Aug.1950. 23 So84

11782 BABB, MRS. E. M. Gentian notes from Maine. Amer. Rock Gard. Soc. B. 8:81-82. Sept./Oct.1950. 81 Am342

11783 BARTRUM, D. Ornamental vines. Estate Mag 50:405. Oct.1950. 10 Es8

11784 BATCHELLER, O. A. Varietal rooting experiments. In Southern California Camellia Society. Horticultural Research Committee. Camellia research, p.14. Pasadena, 1950. 97.31 So822

11785 BAYNES, A. Plants for beginners. 2. Succulents. I. Natl. Cactus & Succulent J. 5:39-40. Sept.1950. 450 N21

11786 BENGTTSSON-HELLGREN, A. Climbers in the shade. (In Swedish.) Trädgårdstidningen 22(10):18-19, 29. Oct.1950. 80 T67

11787 BERTHOLDT, W. Influences of "hard" and "soft" water on aquarium plants. Aquarium J. 21:230-232. Nov.1950. 414.8 Aq3

11788 BERTRAND, A. *Opuntia clavarioides* Pfeiffer. Cactus [Paris] 25:81-82. Sept.15, 1950. 450 C114

11789 BOLIN, L., and POST, L. O. A. VON. *Floran i färg* [Flowers in color]. Stockholm, Geber, 1950. 211 p. 459.1 B63

Includes list of Swedish plant names.

11790 BOUCHARD, M. A. Des fleurs qui ne se flétrissent pas. Foyer Rural. [Montreal] 10(2):12-13, 16. Nov.1950. 7 F83

11791 BOWERS, C. G. Misconceptions concerning Cunningham's white Rhododendron. Natl. Hort. Mag. 29:171-176. Oct.1950. 80 N216

11792 BOYER, J. Les Cactacées dans leur pays: le *Carnegiea gigantea* dans le désert fleuri. Cactus [Paris] 25:67-70. Sept.15, 1950. 450 C114

11793 BYLES, R. S. Some notes on the genus *Sedum* Linn. (Crassulaceae). Natl. Cactus & Succulent J. 5:49-50. Sept.1950. 450 N21

11794 CANATSEY, E. D. City trees. Purdue U. Engln. Ext. Dept. Ext. Ser. 71:143-147. 1950. 290.9 P972

11795 CHADWICK, L. C. The best in *Taxus*. Amer. Assoc. Nurserymen Proc. 75:68-73. 1950. 81 Am3P

11796 CHAMPION, F. C. The genus *Sempervivum*. Natl. Cactus & Succulent J. 5:44-45. Sept.1950. 450 N21

11797 CHAN. Opportunities in foliage plants. Canad. Florist 45(22):8-10. Nov.15, 1950. 80 C163

11798 CHEGWIDDEN, M. Small and lovely. Calif. Hort. Soc. J. 11:155-159. Oct.1950. 81 C1293

Gardens. 11799 CHEVALIER, C. Les plantes bulbeuses en appartement. B. Hort. (n.s.):5:256-258, 270. Sept.1, 1950 80 B873

11800 CHRISTY, C. M. Some case histories in color Calif. Hort. Soc. J. 11:150-154. Oct.1950. 81 C1293

Landscape gardening.

11801 CLAIRMONT, J. H. A horticultural hobby. Camellia Rev. 12:17. Oct.1950. 97.31 So82

11802 COLLARD, J. Floriculture en plein air. B. Hort. (n.s.):5:232-234. Aug.1, 1950. 80 B872

11803 COOK, D. Container culture of Camellias. Camellian 1:36-37, 61. Sept.1950. 97.31 C14

11804 COURT, F. M. Cacti and winter watering. Natl. Cactus & Succulent J. 5:40. Sept.1950. 450 N21

11805 CUCALON TEJEIRO, E. Cultivo de la borraja del Moncayo. Cult. Mod. 33:337-338. Sept.1950. 15 C89

*Borago officinalis*.

11806 CURSON, N. W. Notes on feeding of orchids. Amer. Orchid Soc. B. 19:603. Nov.1950. 80 Am329

11807 DAVIS, B. A. Azaleas, camellias, gardenias. Meridian, Miss., Hope Haven Gard. 1950. 114 p. 97.31 D29

11808 DAVIS, M. B. Impressive new ornamentals. West. Canad. Soc. Hort. Rpt. Proc. 6:46-48. 1950 82 W522

11809 DECKER, J. S. Dahlias which we ought to plant! (In Portuguese.) Chacaras e Quintais 82:455-458. Oct.15, 1950. 9.2 C34

11810 DELWORTH, C. Snapdragon culture. Florists' Rev. 107(2765):27-29. Nov.23, 1950. 80 W41

11811 DENGLE, H. W. Maybe you can grow holly [lex]. Farm J. 74(12):40, 119. Dec.1950. 6 F2213

11812 DORT, H. W. VAN. Plants with variegated leaves. (In Dutch.) Vakbl. v. de Bloemistertij 5:261. Aug.18, 1950. 80 V22

11813 EMSWELLER, S. L. Development of new ornamental plants at the USDA Horticultural Research Center. Amer. Assoc. Nurserymen Proc. 75:73-76. 1950. 81 Am3P

11814 ENÉ DE PIRO, M. Les erythrines. Révell Agr. 59:279-280. Sept.15, 1950. 14 R322

11815 ERDMAN, R. P. Classification and recognition of Camellias. Camellia Rev. 12:11, 22. Oct.1950. 97.31 So82

11816 EVERETT, T. H. Cornus kousa, a summer-flowering flowering dogwood. N. Y. Bot. Gard. J. 51:205-210. Sept.1950. 451 N48J

11817 EYSTER, W. H. Organic window gardening. Org. Gard. 17(5):54-57. (To be cont.) Nov.1950. 56.8 Or3

11818 FAIRLEY, E. H. Ornamental evergreens; how to use evergreens in home landscaping. Org. Gard. 17(5):16-17. Nov.1950. 56.8 Or3

11819 FAVINGER, J. Bright shrubs answer winter needs. Outdoor Ind. 17(12):6-7, 19. Dec.1950. 279.8 Ou82

Broad-leaved evergreens.

11820 FISCHER, C. W., JR. Cutflowers, long-term storage possible. South. Florist & Nurseryman 63(34):34-38. Nov.17, 1950. 80 So86

11821 FLYNN, T. P. Orchids abroad. Amer. Orchid Soc. B. 19:612-617. (To be cont.) Nov.1950. 80 Am329

11822 FOGG, H. G. W. This is bulb planting time. Allot & Gard. 85:3, 10-12. Sept.1950. 80 N217

11823 FOX, H. M. A few savories [Satureia]. Natl. Hort. Mag. 29:147-157. Oct.1950. 80 N216

11824 FROST, E. H. Why not heather. Amer. Rock Gard. Soc. B. 8:76-80. Sept./Oct.1950. 81 Am342

Calluna and Erica.

11825 GASSETT, A. C. Planting of live oaks [*Quercus virginiana*] successful at Dallas. Parks & Recreation 33:369. Nov.1950. 99.8 P23

11826 GLISSMAN, H. G. Establishing and maintaining turf. Arborist's News 15:122-127. Oct.1950. 99.8 Ar14

11827 HACKER, W. Des nachbars baum in meinem garten. Gartenjahr 5:88. June 1950. 80 G1932

11828 HAMILTON, M. C. Chrysanthemums. Calif. Gard. 41(3):14. Autumn 1950. 80 C127



- 11829 HANSEN, D. Rexes thrive in Nebraska. *Ben-gonian* 17:237. Nov.1950. 96.511 B39
- 11830 HARDY, J. Importance of hygiene in the propa-gating house; carnations need cleanliness. *Nurseryman & Seedsman* 111:956-958. Oct.12,1950. 80 N933
- 11831 HARKNESS, B. Hardiness records of woody plants at Rochester, New York. *N. Y. Bot. Gard. J.* 51: 210-214,219. Sept.1950. 451 N48J
- 11832 HARP, H. F. Rose breeding. *West. Canad. Soc. Hort. Rpt. Proc.* 6:53-54. 1950. 82 W522
- 11833 HARRIS, J. Landscaping church grounds. *N. C. Agr. Col. Ext. C.* 357,8 p. Nov.1950. 375.29 N811
- 11834 HASTIE, C. N., JR. Prepare soil and plant early for better results. *Camellian* 1:38,63. Sept.1950. 97.31 C14
- 11835 HAWORTH-BOOTH, M. Permanent garden planting. *Country Life* [London] 108:1686-1687. Nov.17, 1950. 80 C83
- 11836 HAYWARD, W. The lily [*Gloriosa rothschildi*-ana] that climbs. *Horticulture* 28:370,386. Oct.1950. 80 H787
- 11837 HIERONYMUS, A. M. A lot for living. *Hawaii Farm & Home* 13(10):46-47,55. Oct.1950. 25 H3191
- Flowering trees that can be used in Hawaii.
- 11838 HOAK, C. M. Christmas sweet peas; how to grow sweet peas outdoors for Christmas in California. *Org. Gard.* 17(5):20-21. Nov.1950. 56.8 Or3
- 11839 HOTTES, A. C. Ruellias. *Calif. Gard.* 41(3): 15. Autumn 1950. 80 C127
- 11840 HOUGHTON, K. S. Winter protection for *Chrysanthemums*. *Horticulture* 28:375. Oct.1950. 80 H787
- 11841 HOYT, R. S. Proven plants for beach areas. *Calif. Gard.* 41(3):9-10. Autumn 1950. 80 C127
- 11842 HUME, H. H. Camellia species. *Camellian* 1:34. Sept.1950. 97.31 C14
- 11843 HUNT, A. A. For six months of continuous bloom, color, and variety, consider Camellias. *Prog. Farmer, Tex. Ed.* 65(11):100,120. Nov.1950. 6 T311
- 11844 ILSINK, L. Climbing plants and vines. I-III. (In Dutch.) *Vakbl. v. de Bloemisterij* 5:262,270,278. Aug.18-Sept.1,1950. 80 V22
- 11845 JERABEK, C. I. Some Eucalyptus varieties. *Calif. Gard.* 41(3):8-9. Autumn 1950. 80 C127
- 11846 JOUGAN, E. Faut-il cultiver les rosiers en pots? *Acclimatation* 77:227. Oct.21,1950. 14 Ac2
- 11847 JOUGAN, E. Orangers et Camellias sont-ils disparus des jardins? *Acclimatation* 77:235. Nov.4,1950 14 Ac2
- France.
- 11848 JOUGAN, E. La plantation des rosiers. *Acclimatation* 77:257. Dec.2,1950. 14 Ac2
- 11849 KAMMERER, E. L. Twelve good berried shrubs for the Mid-West. *Morton Arboretum B. Pop. Inform.* 25:31-34. Aug.1950. 99.9 M84
- 11850 KLINGAMAN, H. E. Multiflora rose. *N. Y. State Conserv.* 5(2):11. Oct./Nov.1950. 279.8 N48
- Culture.
- 11851 KLOUGART, A. Dahlia exhibition in the Garden Society's garden. (In Danish.) *Gart.-Tid.* 66: 419-420. Sept.20,1950. 80 G192
- 11852 KORBOBO, R. P. The use of American holly in the landscape. *Holly Soc. Amer. B.* 4:15-18. Oct.26, 1950. 97.31 H72
- 11853 KROMDIJK, G. The forcing of *Prunus triloba*; Dutch method. (In Dutch.) *Cult. en Handel* 16:604-605. Oct.1950. 80 C892
- 11854 KROMDIJK, G. Kalanchoe. (In Dutch.) *Vakbl. v. de Bloemisterij* 5:268. Aug.25,1950. 80 V22
- 11855 KROMDIJK, G. Seeding of annual summer flowers in the fall. (In Flemish.) *Cult. en Handel* 16:478-480. Aug.1950. 80 C892
- Under glass.
- 11856 KROMDIJK, G. What one can do with ornamen-tal bulbs. (In Flemish.) *Cult. en Handel* 16:594-596. Oct.1950. 80 C892
- 11857 LAEKEN, A. VAN. Culture of American car-nations. (In Flemish.) *Cult. en Handel* 16:481-483. (Concl.) Aug.1950. 80 C892
- 11858 LAMMERTS, W. E. Camellia pollination and hybridization. In *Southern California Camellia Society. Horticultural Research Committee. Camellia research*, p.55-63. Pasadena,1950. 97.31 So822
- 11859 LAMMERTS, W. E. The use of embryo culture in germination of Camellia seeds. In *Southern California Camellia Society. Horticultural Research Committee. Camellia research*, p.7-8. Pasadena,1950. 97.31 So822
- 11860 LANGE, P. Der spelerling [*Sorbus domestica*]. *Gartenjahr* 5:84. June 1950. 80 C1932
- 11861 LEECH, N. B. Summer garden thoughts from the Big Valley. *Calif. Hort. Soc. J.* 11:169-171. Oct.1950 81 C1293
- 11862 LIBOWITSKY, A. Blütensträucher, die mehr angepflanzt werden sollen. *Gartenbauwirtschaft* [Wien] 1950:152-153. July 10,1950. 80 G1936
- 11863 LINES, O. The value of stud plants in breeding. *Amer. Orchid Soc. B.* 19:608-609. Nov.1950. 80 Am329
- 11864 LIPPITT, M. A. African violets. *Calif. Gard.* 41(3):3-4. Autumn 1950. 80 C127
- 11865 LOGAN, N. H. Lily culture for pots and garden. *Calif. Hort. Soc. J.* 11:141-145. Oct.1950. 81 C1293
- 11866 MCCLINTOCK, E. Studies in California orna-mental plants. 2. The small-flowered Fuchsias. *Calif. Hort. Soc. J.* 11:135-140. Oct.1950. 81 C1293
- 11867 MCCLINTON, K. M. The place of flowers in home decoration. *Calif. Gard.* 41(3):11-12. Autumn 1950. 80 C127
- 11868 MCCORD, H. G. Buy your Camellias from reliable sources. *Camellian* 1:48. Sept.1950. 97.31 C14
- 11869 MCKENNA, P. J. Bittersweet. *Ohio Conserv. B.* 14(11):19. Nov.1950. 279.9 Oh330
- 11870 MARBURY, S. L. A sure way to root Camellia cuttings. *Camellian* 1:46. Sept.1950. 97.31 C14
- 11871 MATTHEWS, V. D. Reticulata blooms in Darlington County [South Carolina]. *Camellian* 1:45. Sept.1950. 97.31 C14
- 11872 MEALING, H. G., and MEALING, MRS. H. G. Methods of producing new Camellias. *Camellian* 1:39,60-61. Sept.1950. 97.31 C14
- 11873 MELLES, A. B. Catalpa trees in Gray's Inn Gardens. *Gard. Chron.* 128:150. Oct.9,1950. 80 G162
- 11874 MENNINGER, E. A. Frangipani [*Plumeria*], a tree of Tropical America. *N. Y. Bot. Gard. J.* 51:265-268. Nov.1950. 451 N48J
- 11875 MENNINGER, E. C. *Cochlospermum*. *Natl. Hort. Mag.* 29:157-161. Ref. Oct.1950. 80 N216
- 11876 MIALLET, A. La culture de l'oeillet dans les Alpes-Maritimes. *France. Min. de l'Agr. B. Tech. d'Indorm.* 52:575-594;53:655-672. (Cont.) Sept.-Oct. 1950. 14 F844B
- 11877 MILLING, C. J. Ten common mistakes in growing Camellias. *Camellian* 1:52-53. Sept.1950. 97.31 C14
- 11878 MITCHELL, S. B. Leaning on my hoe. *Calif. Hort. Soc. J.* 11:160-162. Oct.1950. 81 C1293
- Annuals for small gardens.
- 11879 MOLDENKE, H. N. Gentians of North America: lovely and fascinating. *Horticulture* 28:371,386. Oct. 1950. 80 H787
- 11880 MOTT, W. P., JR. Our growing street tree problem. *Trees* 10(6):13,22. Sept./Oct.1950. 99.8 W52
- 11881 MULDER, A. Flower bulbs. (In Dutch.) *Volkstuin* 33:101-102. Sept.1950. 80 V88
- 11882 MULDER, H. Cattleya and its culture. (In Dutch.) *Vakbl. v. de Bloemisterij* 5:269,277. (Cont.) Aug.25-Sept.1,1950. 80 V22
- 11883 MULLIGAN, B. O. The Pacific dogwood (*Cornus nuttallii*). *Natl. Hort. Mag.* 29:164-167. Oct. 1950. 80 N216
- 11884 MUNN, M. T. A twenty year lawn experiment. *Farm Res.* [N. Y. State Sta.] 16(4):10. Oct.1950. 100 N48A
- 11885 MUSSER, H. B. Turf management; a publica-tion of the United States Golf Association. New York, McGraw-Hill,1950. 354 p. 97.6 M97
- 11886 NEARING, G. G. The Guyencourt Rhododen-drons. *Amer. Rock Gard. Soc. B.* 8:82-84. Sept./Oct. 1950. 81 Am342
- 11887 NONNECKE, L. L. Herbaceous perennials. *West. Canad. Soc. Hort. Rpt. Proc.* 6:56-57. 1950. 82 W522
- 11888 NUBOURGH, Y. La maison et son cadre: le jardin. II. *B. Hort. (n.s.)* 5:250-253. Sept.1,1950. 80 B873
- 11889 NUCCIO, J. Hints on disbudding. *Camellia Rev.* 12:15. Oct.1950. 97.31 So82



- 11890 ODELL, J. H. *Gladiolus* variety outlook. *Horticulture* 28:366. Oct.1950. 80 H787
- 11891 OTAGURO, W. H. Honolulu Orchid Society Show. *Amer. Orchid Soc. B.* 19:598-602. Nov.1950. 80 Am329
- 11892 PARKER, M. W., STUART, N. W., and BORTHWICK, H. A. Tulips under light; experiments in forcing tulips under artificial light. *Florists Rev.* 107(2766):31-32. Nov.30,1950. 80 W41  
Similar title in *Florists' Exch.* 115(23):11. Dec.2,1950. 80 F666
- 11893 PATTERSON, C. F. Breeding ornamentals at the University of Saskatchewan. *West. Canad. Soc. Hort. Rpt. Proc.* 6:48-50. 1950. 82 W522
- 11894 PEER, R. Creating new varieties. *Camellian* 1:42-43. Sept.1950. 97.31 C14
- 11895 PENDER, L. D., JR. *Reticulata* in Raleigh, N. C. *Camellia Rev.* 12:9-10,23. Oct.1950. 97.31 So82
- 11896 PERIS Y PEREZ, P. *La Begonia rex*. *Cult. Mod.* 33:340-342. Sept.1950. 15 C89
- 11897 PETERSON, B. Plants grown in Halland's gardens in the 17th century. (In Swedish.) *Göteborg. Bot. Trädgård. Meddel.* (1948)18:15-23. 1950. 451 G712
- 11898 POOLE, B. H. *Carnation culture*. *Hawaii Farm & Home* 13(9):35-36. Sept.1950. 25 H3191
- 11899 PRING, G. H. Hardiness of *Magnolia grandiflora* in the St. Louis area. *Mo. Bot. Gard. B.* 38:160-164. Nov.1950. 451 M69B
- 11900 PRING, G. H. A hardy Japanese bamboo (*Sasa palmata*). *Mo. Bot. Gard. B.* 38:165-167. Nov.1950. 451 M69B
- 11901 PUCCINI, G. Trip to Belgium and Holland. I-II. (In Italian.) *Terra [Firenze]* 61(42):3;(43):3. Oct.15-22,1950. 16 T274  
Title varies.  
The 12th flower show in Gent.
- 11902 PURDY, E. C. Try *Calochortus* this year. *Horticulture* 28:368,388. Oct.1950. 80 H787
- 11903 RASMUSSEN, A. O., KIRBY, R. S., and PEPER, J. O. *Dahlias*. *Pa. State Col. Agr. Ext. L.* 141, 4 p. Sept.1950. 275.29 P38L
- 11904 RASMUSSEN, A. O., KIRBY, R. S., and PEPER, J. O. *Gladiolus*. *Pa. State Col. Agr. Ext. L.* 138, 4 p. Sept.1950. 275.29 P38L
- 11905 RASMUSSEN, A. O., KIRBY, R. S., and PEPER, J. O. *Hardy Chrysanthemums*. *Pa. State Col. Agr. Ext. L.* 140, 4 p. Sept.1950. 275.29 P38L
- 11906 RASMUSSEN, A. O., KIRBY, R. S., and PEPER, J. O. *Hybrid Delphinium*. *Pa. State Col. Agr. Ext. L.* 137, 4 p. Sept.1950. 275.29 P38L
- 11907 RASMUSSEN, A. O., KIRBY, R. S., and PEPER, J. O. *Peonies*. *Pa. State Col. Agr. Ext. L.* 139, 4 p. Sept.1950. 275.29 P38L
- 11908 RASMUSSEN, A. O. Some interesting perennials for the home grounds. *Pa. State Col. Agr. Ext. C.* 370,16 p. Oct.1950. 275.29 P38C
- 11909 REAMS, W. M., JR. Some data on aquarium plants at low temperatures. *Aquarium J.* 21:205. Oct.1950. 414.8 Aq3
- 11910 REINELT, F. Twenty years of breeding tuberous *Begonias*. *Begonian* 17:240-243. (To be cont.) Nov.1950. 96.511 B39
- 11911 REUTERSWÄRD, G. Individuality characterizes the English garden. (In Swedish.) *Trädgårdstidningen* 22(10):16-17. (Cont.) Oct.1950. 80 T67
- 11912 RIX, M. M. Vicissitudes of a landscape garden. *Country Life [London]* 108:1490-1491. Nov.3,1950. 80 C83
- 11913 ROAN, H. M. *Kleinia tomentosa*. *Natl. Cactus & Succulent J.* 5:46. Sept.1950. 450 N21
- 11914 ROBERTS, E. Good news for African violet fanciers. *Begonian* 17:233-234. Nov.1950. 96.511 B39
- 11915 ROSE, F. H. Afield with a plant collector. *Amer. Rock Gard. Soc. B.* 8:87-89. Sept./Oct.1950. 81 Am342  
Wildflowers.
- 11916 RUCKER, N. S. Designing the small garden. *Calif. Hort. Soc. J.* 11:146-149. Oct.1950. 81 C1293
- 11917 RUSSELL, J. L. Winter care of summer bulbs. *Horticulture* 28:364,388. Oct.1950. 80 H787
- 11918 SANDS, M. The gardens of Hampton Court; four centuries of English history and gardening. London, Evans,1950. 247 p. 90.51 Sa5
- 11919 SARGENT, M. H. Use wild herbs for flavor and fragrance. *Horticulture* 28:365,387. Oct.1950. 80 H787
- 11920 SAWADA, G. Hold your horses. *Camellian* 1:48,56. Sept.1950. 97.31 C14  
Camellia breeding.
- 11921 SAWYER, M. T. Inverewe: a garden in the North West Highlands. *Roy. Hort. Soc. J.* 75:436-444. Nov.1950. 84 L84J
- 11922 SAX, K. Dwarf trees. *Arnoldia* 10:73-79. Nov.10,1950. 451 Ar6Ba
- 11923 SCHERY, R. W. Ornamental fruits for autumn and winter. *Mo. Bot. Gard. B.* 38:119-132. Sept.1950. 451 M69B
- 11924 SCOTT, E., and SCOTT, A. H. *Chrysanthemum aristocrats*. *N. Y. Bot. Gard. J.* 51:276-277. Nov.1950. 451 N48J
- 11925 SHARP, E. L. Japanese Anemones. *Horticulture* 28:369,388. Oct.1950. 80 H787
- 11926 SHERRARD, D. Note on *Cornus nuttallii*. *Natl. Hort. Mag.* 29:162-164. Oct.1950. 80 N216
- 11927 SHEWELL-COOPER, W. E. Making the most of lilacs. *Field* 196:555. Sept.30,1950. 10 F45
- 11928 SHEWELL-COOPER, W. E. Seasonal borders. *Co-op. Home Mag.* 55(11):10. Nov.1950. 280.28 W563
- 11929 SITWELL, SIR G. R. On the making of a gardens. London,Dropmore Press,1949. 113 p. 98 S18
- 11930 SOUTHERN CALIFORNIA CAMELLIA SOCIETY. HORTICULTURAL RESEARCH COMMITTEE. *Camellia research*. Pasadena,1950. 75 p. 97.31 So822
- 11931 SPRING, J. W., JR. Earlier blooms with pre-cooled bulbs. Under Glass 4(6):1-2. Nov./Dec.1950. 80 Un2
- 11932 STAUTEMAS, E. Last care of *Chrysanthemum*. (In Flemish.) *Tuinbouwberichten* 14:137-138. Sept.15, 1950. 80 T817
- 11933 STEVENSON, V. W. Cyclamen like to keep in touch. *Grower [London]* 34:943,945. Nov.5,1950. 286.83 M34
- 11934 STIRLING, W. F. Boiling water keeps Iceland poppies fresh. *Grower [London]* 34:1059. Nov.18,1950. 286.83 M34
- 11935 TEGTMEIER, A. If you want lots of yellow bloom try evening primroses. *Horticulture* 28:373,389. Oct.1950. 80 H787
- 11936 THACHER, MRS. A. B. A plea for the cultivation of English hollies [*Ilex aquifolium*]. *N. Y. Bot. Gard. J.* 51:261-264. Nov.1950. 451 N48J
- 11937 THOMAS, J. For your "hall of Ivy." *Begonian* 17:235-236. Nov.1950. 96.511 B39  
Hedera.
- 11938 TOURJE, E. C. Camellia seed culture. In *Southern California Camellia Society. Horticultural Research Committee. Camellia research*, p.9-13. Pasadena,1950. 97.31 So822
- 11939 TULINTSEV, V. G. *Dekorativnoe sadovodstvo [Landscape gardening]*. Moskva,Gos. Izd-vo Selkhoz Lit-ry,1950. 432 p. (Uchebniki i Uchebnye Posobija Dlia Sel'skokhoziaistvennykh Tekhnikumov) 98 T82
- 11940 U. S. PATENT OFF. Plant patents. 22 Nos. 1950. 156.65 P69  
Contents: 964. Spandikow, W. L. Rose plant. 1 p., 1 col. pl. July 18; 965. Muller, E. Dogwood plant. 1 p., 1 col. pl. July 18; 973. Vink, J. de. Rose plant. 2 p., 1 col. pl. Aug. 15; 975. Boerner, E. S. Rose plant. 2 p., 1 col. pl. Aug. 29; 976. Vink, J. de. Rose plant. 2 p., 1 col. pl. Aug. 29; 977. Meiland, F. Rose plant. 2 p., 1 col. pl. Aug. 29; 978. Boerner, E. S. Rose plant. 2 p., 1 col. pl. Sept. 5; 979. Burgoyne, P. J. Ivy plant. 1 p., 1 col. pl. Sept. 5; 981. Reid, J. P. Pelargonium plant. 2 p., 1 col. pl. Sept. 26; 982. Blaser, J. A. *Dracaena* plant. 1 p., 1 col. pl. Oct. 10; 983. Swim, H. C. Rose plant. 3 p., 1 col. pl. Oct. 24; 984. Swim, H. C. Rose plant. 3 p., 1 col. pl. Oct. 24; 985. Swim, H. C. Rose plant. 3 p., 1 col. pl. Oct. 24; 986. Howard, F. H. Rose plant. 1 p., 1 col. pl. Nov. 7; 987. Prushek, E. *Chrysanthemum* plant. 2 p., 1 col. pl. Nov. 7; 988. DePetris, V. R. *Chrysanthemum* plant. 1 p., 1 col. pl. Nov. 21; 989. McLellan, R. I. *Gardenia* plant. 2 p., 1 col. pl. Nov. 21; 990. Bohne, H. F. *Philodendron* plant. 1 p., 1 col. pl. Nov. 21; 991. Verschuren, H. A. M. Rose plant. 2 p., 1 col. pl. Nov. 21; 992. Boerner, E. S. Rose plant. 2 p., 1 col. pl. Nov. 28; 994. Swim, H. C. Rose plant. 3 p., 1 col. pl. Nov. 28; 996. Howard, F. H. Rose plant. 2 p., 1 col. pl. Dec. 5.



- 11941 UOTA, M., and SMOCK, R. M. Autumnal coloration. *Cornell Plantations* 7:6-7. Autumn 1950. 409.6 C812
- 11942 VINCENT, S. Une plante séduisante: la violette africaine. *Foyer Rur.* [Montréal] 10(3):3. Dec. 1950. 7 F83
- 11943 WALKER, J. Steps involved in developing hardy dwarf evergreens. *West. Canad. Soc. Hort. Rpt. Proc.* 6:50-52. 1950. 82 W522
- 11944 WALMSLEY, L. A. Tropical foliage plants. *Calif. Gard.* 41(3):13-14. Autumn 1950. 80 C127  
In landscape gardening.
- 11945 WALMSLEY, M. H. Crinums for our gardens. *Org. Gard.* 17(5):22-24, 57. Nov. 1950. 56.8 Or3
- 11946 WILSON, A. Bamboos. *Calif. Hort. Soc. J.* 11:163-168. Oct. 1950. 81 C1293  
*Dendrocalamus*, *Bambusa*, and *Phyllostachys*.
- 11947 WISTER, J. C. Planting shrubs this autumn? Try some lilac species. *Horticulture* 28:374-375. Oct. 1950. 80 H787
- 11948 WRIGHT, J. W. Holly hybridizing techniques. *Holly Soc. Amer. B.* 4:3-13. Oct. 26, 1950. 97.31 H72
- 11949 WYMAN, D. Be careful with these colored foliage shrubs. *Horticulture* 28:377, 385. Oct. 1950. 80 H787
- Vegetable and Truck Crops (Including Potatoes)**
- 11950 ABITBOL, J. Condiciones de suelo y clima para el cultivo de la papa. *Soc. Rur. Argentina. An.* 84 (7):44-45, 72. July 1950. 9 S01
- 11951 AGAPOV, S. P. Post-harvest drying of seed plants in the field and post-harvest ripening of table root-crop seeds. (In Russian.) *Sad i Ogorod* 1950(8):13-14. Aug. 1950. 80 S413  
For improvement of germination.
- 11952 ALLEN, H. T. Potato seedling and variety trials. *West. Canad. Soc. Hort. Rpt. Proc.* 6:10-13. 1950. 82 W522
- 11953 ANDERSEN, E. T. Report to Western Canadian Society of Horticulture. *West. Canad. Soc. Hort. Rpt. Proc.* 6:8-10. 1950. 82 W522  
Manitoba Potato Breeding Program.
- 11954 ANDRIBET, P. Le choix des variétés de pommes de terre. *Agr. Charentais* 5(19):1-2. Oct. 15, 1950. 14 Ag825
- 11955 ARCHIMOWITSCH, K. Cultivo y selección del tomate. *Siembra* [Madrid] 6(8/9):9-13. Aug./Sept. 1950. 15 S11
- 11956 ASTREGO, J. J. Culture of witloof. (In Dutch.) *Boer en Tuinder* 4(196):4. Oct. 21, 1950. 12 B632
- 11957 BANDEIRA, A. T. Indicaciones prácticas para el cultivo del garbanzo. *Uruguay. Inst. Nac. de Colon. B.* 1(6):5-7. Aug. 1950. 282.29 Ur8
- 11958 BERGSMAN, J. Culture of Brassica plants. (In Dutch.) *Volkstuin* 33:103. Sept. 1950. 80 V88
- 11959 BLESS, G. Culture of Brussels sprouts. (In Dutch.) *Boer en Tuinder* 4(200):4. Nov. 18, 1950. 12 B632
- 11960 BLIN, H. Multiplication et culture de la rubarbe. *Acclimatation* 77:220. Oct. 14, 1950. 14 Ac2
- 11961 BLOM, G. Sowing of salad; end of October is the best time. (In Dutch.) *Boer en Tuinder* 4(196):4. Oct. 21, 1950. 12 B632
- 11962 BOUHELIER, R. Principes généraux de la culture de la tomate au Maroc. *Inform. Marocaine* 507:1, 3. Sept. 30, 1950. 281.8 In3
- 11963 BROADBENT, L. The microclimate of the potato crop. *Roy. Met. Soc. [London], Q. J.* 76:439-454. Oct. 1950. 340.9 R81
- 11964 BRUNE, W. Observations on compatability in the genus *Brassica*. (In Portuguese.) *Rev. Ceres* 8:158-172. Ref. July/Dec. 1949. 9.2 C332  
English summary.
- 11965 BRUN-MÖLLER, P. Early and late cauliflower. (In Danish.) *Haven* 50:115-116. Sept. 1950. 80 H29
- 11966 CAMPBELL, J. A. Earliness, yield of 17 cabbage varieties tested. *Miss. Farm Res. [Miss. Sta.]* 13(10):1, 6. Oct. 1950. 100 M69M1
- 11967 CHANASYK, V. Tomato breeding at Beaverlodge. *West. Canad. Soc. Hort. Rpt. Proc.* 6:14-16. 1950. 82 W522
- 11968 CHIZHOV, S. T. Effect of conditions for cultivating vegetable seed plants on yields and quality of seeds. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 11:217-224. 1949. 20 M857
- 11969 COBBLEDICK, A. L. Potato growing in conjunction with market gardening. *So. Austral. Dept. Agr. J.* 54:32-33. Aug. 1950. 23 So84
- 11970 COSTANTINO, G. Seed potato cultivation in Sila. (In Italian.) *Agr. Ital.* 1:551-554. Nov. 1, 1950. 16 Ag822  
English summary.
- 11971 DERMER, Neue gemüsesorten. *Gartenjahr* 5:89. June 1950. 80 G1932
- 11972 DUNLAP, W. H. Eastern States report some great potato yields. *East. States Coop.* 26(12):5-6. Dec. 1950. 280.28 Ea7
- 11973 FLACCOMIO, E. Edible and poisonous mushrooms. (In Italian.) *Agr. Ital.* 1(15):II. Sept. 15, 1950. 16 Ag822
- 11974 GABELMAN, W. H. Hybrid vegetables. *Wis. Hort.* 51:59. Nov. 1950. 80 W752
- 11975 GEYER, H. Die pflanzguterzeugung im Bundesgebiet. *Kartoffelbau* 1:11-12. June 1950. 75.8 K145
- 11976 GFRÖRER, E. Die pflanzkartoffelvermehrung in Württemberg und Hohenzollern. *Z. f. Acker- u. Pflanzenbau* 92:498-524. Ref. Sept. 1950. 18 J825
- 11977 GRIESBECK, A. Die kartoffelzüchtung als grundlage des kartoffelbaues. *Kartoffelbau* 1:7-9. June 1950. 75.8 K145
- 11978 GUEYDON, L. Comment améliorer son jardin potager. *Réveil Agr.* 59:308-309. Oct. 15, 1950. 14 R322
- 11979 HOFFERBER, W. Sorgfältige bereinigung der pflanzkartoffelbestände sichert den erfolg. *Kartoffelbau* 1:12. June 1950. 75.8 K145
- 11980 HOME GROWN THRESHED PEAS JOINT COMMITTEE. Sixth annual report, 1949-50. London, 1950. 21 p. 60.39 H75
- 11981 HÖPPNER, E. Das sortenamt als mittler zwischen züchtung und praxis. *Kartoffelbau* 1:9-10. June 1950. 75.8 K145
- 11982 HORNBY, C. A. Vegetable improvement at Summerland, B. C. *West. Canad. Soc. Hort. Rpt. Proc.* 6:17-19. 1950. 82 W522
- 11983 INCH, R. The place of chou moellier in Mid-Canterbury farming. *New Zeal. J. Agr.* 81:225-226. Sept. 1950. 23 N48J
- 11984 INIGUEZ GARCIA, J. El cultivo de las coles: col de milan. *Tierra* [México] 5:666-668, 689. Dec. 1950. 8 T445
- 11985 ITIE, G. Como cultivar el melón. *Tierra* [México] 5:657-659, 694-695. (To be cont.) Dec. 1950. 8 T445
- 11986 IVANISHIN, A. I. Ovoshchnye kul'tury v otkrytom grunte Irkutskoi oblasti [Vegetable crops in the open ground in Irkutsk Region]. *Irkutsk, Irkutskoe Obl. Gos. Izd-vo*, 1950. 135 p. 91 Iv1
- 11987 JANSSEN, L. Potato degeneration; it is bad to grow potatoes on the same land for three years. (In Dutch.) *Boer en Tuinder* 4(195):3. Oct. 14, 1950. 12 B632
- 11988 JENNINGS, O. Winter vegetables; sun's heat can be utilized in winter. *Org. Gard.* 17(5):41. Nov. 1950. 56.8 Or3
- 11989 JESSEN, L. S. How to grow your own lettuce. *Hawaii Farm & Home* 13(10):48-49. Oct. 1950. 25 H3191
- 11990 JONES, R. Mechanization has brought about man-size changes in this business of mushroom farming. *Ford Farming* 3(4):5-6. Fall 1950. 58.8 F752
- 11991 KALMAR, R. Cultivo y protección del garbanzo. *Bolsa de Com., Rosario. Rev.* 38(930):3-5. Oct. 15, 1950. 287 R71
- 11992 KERSTING. Zur gewinnung gesunder bohnen-saat. *Landwirt. Wechnbl. f. Westfalen u. Lippe* 107A:1412. Oct. 12, 1950. 18 L2346
- 11993 KILPATRICK, D. T., and EDWARDS, G. R. Brussels sprouts as a market crop. *So. Austral. Dept. Agr. J.* 54:14-18. Aug. 1950. 23 So84  
Culture.
- 11994 KRICKL, M. Radies: kritische beurteilung vom standpunkt des verbrauchers und des züchters. *Gartenbauwirtschaft* [Wien] 1950:164-165. (Concl.) July 25, 1950. 80 G1936



- 11995 KRUYK, P. A., and BLOOIS, J. DE. The tomato plant after the harvest. (In Dutch.) Groenten en Fruit 6:179. Sept.14,1950. 80 G89
- 11996 KUMMER, H. Verbesserung der keimfähigkeit von feldsalatsamen durch beizung. Saatgut-Wirtsch. 2:207-208. Sept.1950. 61.8 Sa1
- 11997 LAMM, R., TOMETORP, G., and HINTZE, S. Klassificerande sort- och stamförsök med köksväxter 1945-1949 [Classifying variety trials with vegetables in 1945-1949]. Alnarp. Lantbr.-Mejeri- och Trädgårdsinst. Stat. Trädgårdsförsök. Meddel. 58,46 p. Ref. 1950. 86 AL64  
English summary.
- 11998 LEBERTON, F. Pommes de terre: les variétés commerciales. VI-VIII. Fructidor (n.s.)16(30):7;(31):7;(32):7. Oct.25-Nov.5,1950. 286.83 F9423
- 11999 LORENZ, O. A. Air and soil temperatures in potato fields, Kern County, California, during spring and early summer. Amer. Potato J. 27:396-407. Ref. Nov. 1950. 75.8 P482
- 12000 LUBOUSKI, N. P. Kul'tura zemlfanoj grushi (topinambura) v Donbasse [Jerusalem artichoke culture in Donbas]. Stalino, Stalinsloe Obl. Izd-vo,1950. 31 p. (Bibliotekha Kolkhoznika) 91.36 L96
- 12001 MARTLAND, J. J. Mushrooms for profit. Poultry Farmer [London] 123(3196):10;(3198):14. Nov.3-17,1950. 47.8 F312
- 12002 MOLLEMANS, H. Nos légumes en plein air. B. Hort. (n.s.)5:234-236. Aug.1,1950. 80 B872
- 12003 MORRISON, G. Vegetables for American gardens. Seed World 67(10):14-15. Nov.17,1950. 61.8 Se52
- 12004 MUELLO, A. C. El tú-tía [Solanum sisymbriifolium], portainjerto del tomate. Pampa Argentina 23 (274):18. Sept.1950. 9 P19  
Also in Bolsa de Com., Rosario. Rev. 38(930):25-26. Oct.15,1950. 287 R71
- 12005 MUSIL, A. F. Identification of Brassicas by seedling growth or later vegetative stages. U. S. D. A. C. 857,26 p. Sept.1950. 1 Ag84C
- 12006 NEMCHIN, F. I. Agrotehnika i semenovodstvo kartofelja v Moldavii [Cultural practices and seed production of potatoes in Moldavia]. Kishinev, Gos. Izd-vo Moldavii,1950. 90 p. 75 N34
- 12007 NONNECKE, I. L. Tomato breeding. West. Canad. Soc. Hort. Rpt. Proc. 6:13-14. 1950. 82 W522
- 12008 ONISHCHENKO, A. I. On depth of potato roots expansion. (In Russian.) Agrobiologija 1950(4):157-161. July/Aug.1950. 20 Ag822
- 12009 OSIPOV, K. Letnie posadki kartofelja [Summer plantings of potatoes]. Penza, Penzenskoe Obl. Izd-vo, 1950. 27 p. 75 Os42
- 12010 PANOV, M. A. Shampin'ony [Fairy-ring mushrooms [Psalliota]]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 44 p. 91.7 P198  
Chiefly culture.
- 12011 PARRINI, U. Cultivation of asparagus in Tripolitania. (In Italian.) Libia Agr. 1950(13):3. Oct.29, 1950. 24 L61
- 12012 PLINKA, A. D. Post-harvest ripening of onion seeds. (In Russian.) Sad i Ogorod 1950(8):17-21. Aug. 1950. 80 Sa13
- 12013 POLLARD, R. D. Onion growing. So. Austral. Dept. Agr. J. 54:38-39. Aug.1950. 23 So84
- 12014 POPOVA, E. M. Post-harvest ripening of cabbage seed stocks. (In Russian.) Sad i Ogorod 1950(8):15-17. Aug.1950. 80 Sa13
- 12015 RAIDT, W. Gesundere pflanzkartoffel durch frührodung. Deut. Landwirt.-Gesell. Mitt. 3:277-280. Aug.1950. 18 D48M1
- 12016 REINECKE, V. Watermelons and sweet melons (Spanspek). Farming So. Africa 25:282,287. Sept.1950. 24 So842
- 12017 SAENZ FETY, G. El cultivo del tomate. Rev. Nac. de Agr. [Bogotá] 44(544):16-17. Aug.1950. 9.4 R32
- 12018 SAGALOVICH, E. N., and GESKINA, E. ĪA. To improve production of selected seed of vegetable and melon crops. (In Russian.) Sad i Ogorod 1950(8):21-24. Aug.1950. 80 Sa13
- 12019 SCHROETER, R. Kartoffelzucht und pflanzkartoffelbau in Bayern. Hannoversche Land- u. Forst-wirt. Ztg. 103:737. Aug.19,1950. 18 H194
- 12020 SCHULZE. Die kartoffel in den Vereinigten Staaten. Kartoffelbau 1:37-40. July 1950. 75.8 K145
- 12021 SCOTLAND.DEPT. OF AGRICULTURE. Key to potato trials and collections at East Craigs, 1950. Edinburgh,1950. 48 p. 75.9 Sco3
- 12022 SCOTLAND.DEPT. OF AGRICULTURE. Register of potato crops certified 1950. Edinburgh,1950. 236 p. 75.9 Sco3R
- 12023 SEELIG, R. A. Fruit & vegetable history. tomatoes. Fruit & Veg. Rev. 12(8):15,18-19. Nov.1950. 80 C1224
- 12024 SHARP, F. H. Muck and mixed cropping make a market garden grow. Grower [London] 34:1104-1105. Nov.25,1950. 286.83 M34
- 12025 SHEWELL-COOPER, W. E. Getting the best from rhubarb. Field 196:887. Nov.18,1950. 10 F45
- 12026 SIEBENEICK, H. Praktische sortenkunde; ein unentbehrliches hilfsmittel für anbau, absatz und verbrauch. Kartoffelwirtschaft 3:399. Oct.6,1950. 286.83 K14  
Germany.
- 12027 STAHR, A. Coldhouse winter-gardening. Org. Gard. 17(5):18-19. Nov.1950. 56.8 Or3  
Vegetables.
- 12028 STEYSKAL, F. Nochmals zur frage der kohlrabizüchtung. Gartenbauwirtschaft [Wien] 17:198-199. Sept.10,1950. 80 G1936
- 12029 USHAKOVA, E. I. Post-harvest ripening [in the fields] of vegetable seed stocks. (In Russian.) Sad i Ogorod 1950(8):12-13. Aug.1950. 80 Sa13
- 12030 WANDEL, G. Züchtung, anbau und verwertung von topinambur. Deut. Landwirt.-Gesell. Mitt. 3:282-289. Aug.1950. 18 D48M1
- 12031 WICHMANN. Die schrägpflanzung der tomate. Ein mittel zur ertragssteigerung und reifebeschleunigung Gartenjahr 5:71. May 1950. 80 G1932
- 12032 ZHIGLINSKAJA, E. A. Jerusalem artichoke as a silage crop in the non-black earth area. (In Russian.) Sovet. Agron. 8(7):79-84. July 1950. 20 So84  
Culture chiefly.

## WEEDS AND POISONOUS PLANTS

- 12033 ALLRED, B. W. Southwestern trees and shrubs; poison ivy. Sheep & Goat Raiser 31(2):14. Nov. 1950. 45.8 Sh3  
Includes poison sumac.
- 12034 ANGELL, G. N. What! Sheep control tansy [Tanacetum]? Oreg. Farmer 73:861,872. Dec.7,1950. 6 Or32  
Pasturing sheep on tansy, a control measure in Lincoln County, Oregon.
- 12035 ARLE, H. F. The effect of aromatic solvents and other aquatic herbicides on crop plants and animals. West. Weed Control Conf. Proc. 12:58-60. 1950. 79.9 W52
- 12036 BALCOM, R., and others. Weed control on Federal lands. West. Weed Control Conf. Proc. 12:7-36. 1950. 79.9 W52  
Reports from ten Federal agencies by W. J. Endersbee, A. C. Martin, E. L. Flory, K. B. Platt, B. H. Fraser, J. J. Maletic, C. K. Pearce, H. E. Schwan, E. G. Grest, W. E. Shatwell, W. D. Ellison, J. R. Douglas.
- 12037 BALL, W. S. Regulatory phase of weed control. West. Weed Control. Conf. Proc. 12:122-125. 1950. 79.9 W52  
California.
- 12038 BALOG, P. P. Los métodos modernos para la destrucción de las malezas. Bolsa de Com., Rosario. Rev. 38(928):3-5. Sept.15,1950. 287 R71
- 12039 BELGIUM. SERV. DES CONSEILLERS D'HORTICULTURE DE L'ÉTAT. La lutte contre les mauvaises herbes chez les carottes; rapport sur les essais démonstratifs avec le Shell W., un désherbant sélectif, sur des carottes (Daucus carota). Rev. de l'Agr. 3:843-845. Aug.1950. 13 R322
- 12040 BIKKER, A. Control of tufted hairgrass [Deschampsia caespitosa]. (In Dutch.) Netherlands. Landbouwlichtingsdienst. Maandbl. 7:355-359. Aug. 1950. 12 N383M
- 12041 DARROW, R. A. Controlling brush with chemicals. Tex. Livestock J. 9(11):8,31,57-58. Nov. 1950. 49 T29
- 12042 DONA DALLE ROSE, A. Cuscuta in sugar beets. (In Italian.) Agr. del Polesine 2:132-134. Sept. 1950. 16 Ag8222



- 12043 ERICKSON, L. C. A summary on the control of annual weeds in potatoes and beans with selective herbicides in the western region. West. Weed Control Conf. Proc. 12:95-102. 1950. 79.9 W52
- 12044 FERTIG, S. N. 2,4-D for control of yellow rocket [*Hesperis*] and mustard [*Brassica*]. Farm Res. [N. Y. State Sta.] 16(4):11. Oct.1950. 100 N48A
- 12045 GAYL. Ist die latsche ein alpunkraut? Auf der Alpe 1950:73. Oct.1950. 18 Au3  
Pinus mugo pumillo.
- 12046 GENOVESE, M. DEL. Rumices. (In Italian.) Campagna Milan. 1950(7):2-3. Apr.15,1950. 16 C153  
Rumex acetosella and Rumex crispus.
- 12047 GLOSSARY of modern herbicide terminology. Agr. Chem. 5(12):35-37. Dec.1950. 381 Ag8
- 12048 GREEN, K. R. T.C.A.—a promising new weedicide for grass control. Agr. Gaz. N. S. Wales 61: 455-456. Sept.1,1950. 23 N472
- 12049 HALLEMANS, A. On the usefulness of chemical selective herbicides in orchards. (In Flemish.) Cult. en Handel 16:491-492. Aug.1950. 80 C892
- 12050 HEFER, S. V. The control of witchweed [*Striga lutea*]. Farming So. Africa 25:263-265. Aug.1950. 24 S0842
- 12051 HEISER, C. B., JR. Weeds are here to stay! Horticulture 28:363. Oct.1950. 80 H787
- 12052 HERVEY, D. F. Brush control in the Rocky Mountain West. West. Weed Control Conf. Proc. 12:48-51. 1950. 79.9 W52
- 12053 HITCHCOCK, A. E., and others. Growth and reproduction of water hyacinth [*Eichhornia crassipes*] and alligator weed [*Alternanthera philoxeroides*] and their control by means of 2,4-D. Boyce Thompson Inst. Contrib. 16:91-130. July/Sept.1950. 451 B69  
P. W. Zimmerman, H. Kirkpatrick, Jr., and T. T. Earle, joint authors.
- 12054 HODGSON, J. M. Control of emergent aquatic weeds. West. Weed Control Conf. Proc. 12:52-55. Ref. 1950. 79.9 W52
- 12055 HOLLEY, R. W., and BOYLE, F. P. Studying 2,4-D with radioactive tracers. Farm Res. [N. Y. State Sta.] 16(4):2. Oct.1950. 100 N48A
- 12056 HÜLSSE, O. Das wesentliche in der unkrautbekämpfung. Hannoversche Land- u. Forstwirt. Ztg. 103: 733. Aug.19,1950. 18 H194
- 12057 IVINS, J. D. Weeds in relation to the establishment of the ley. Brit. Grassland Soc. J. 5:237-242. Sept.1950. 60.19 B773
- 12058 KAZAKEVICH, L. I., and SMIRNOV, B. M. Kak ochistit' polia ot sorniakov [How to clear off weeds from fields]. Saratov, Saratovskoe Obl. Gos. Izd-vo, 1950. 115 p. 79 K182
- 12059 LAFKIN, W. E. The theory and practice of crab grass control. White Plains, N. Y., Golf and Lawn Supply Corp., 1949? 11 l. 78 L13
- 12060 MCCULLY, W. G. Preventing the spread of Macartney rose over grazing lands. Coastal Cattleman 16(8):16-17. Oct.1950. 43.8 C63
- 12061 MALETIC, J. T. A helpful tool in purchasing herbicides: weed control calculations. Agr. Chem. 5(11): 38-39, 41, 82. Nov.1950. 381 Ag8
- 12062 MILTON, R. H. Weed control in tobacco plant beds. Ky. Farmer 86(10):13, 22. Oct.1950. 6 F2237
- 12063 MORAN, W. T. Introductory remarks to control of aquatic weeds. West. Weed Control Conf. Proc. 12:51. 1950. 79.9 W52
- 12064 NELSON, R. T. 2,4-D as aid to fall preparation in controlling volunteer alfalfa. Through Leaves 38(4):27-28. July/Aug.1950. 66.8 T41  
In sugar beet fields.
- 12065 PAINE, K. E. Those uninvited guests in your seedlings. East. States Coop. 26(12):8. Dec.1950. 280.28 Ea7
- 12066 PEARSON, A. Experiment in control of skeleton weed [*Chondrilla*]; effect of long-term pasture. Agr. Gaz. N. S. Wales 61:425-427. Aug.1,1950. 23 N472
- 12067 PETERSEN, H. I. Experiments with chemical preparations against weeds in spring grain and stubble fields. (In Danish.) Tidsskr. f. Planteavl 53:678-708. 1950. 11 T439  
English summary.
- 12068 PETERSEN, H. I. Fall treatment of stubble fields. (In Danish.) Dansk Landbr. 69:445. Aug.31,1950. 280.28 V91  
Chiefly on weed control.
- 12069 PIACCO, R. Good results with weed killers. (In Italian.) Gior. di Agr. 60:343. Oct.29,1950. 16 It1G
- 12070 PIACCO, R. Judicious application of weed killers in rice fields. (In Italian.) Colt. e Gior. Vinic. Ital. 96:266-267. Oct.15,1950. 16 C72
- 12071 PRYOR, M. R. Weed control. West. Weed Control Conf. Proc. 12:125-127. 1950. 79.9 W52
- 12072 QUISENBERRY, K. S. Weed control research, Bureau of Plant Industry Soils, and Agricultural Engineering. West. Weed Control Conf. Proc. 12:3-7. 1950. 79.9 W52
- 12073 ROBBINS, W. W. Control of annual weeds in orchards and vineyards. West. Weed Control Conf. Proc. 12:102-103. 1950. 79.9 W52
- 12074 ROBBINS, W. W. Instruction in weeds and weed control in eleven Western States and Hawaii. West. Weed Control Conf. Proc. 12:119-121. 1950. 79.9 W52
- 12075 ROUX, E. R. Output can be much greater; effective weed control. (In Afrikaans.) Landbouweekblad 32(1633):8-9. Nov.1,1950. 24 L232  
Use of growth inhibitors.
- 12076 SCHERRET. Verunkrautete gute wiesenböden. Hannoversche Land- u. Forstwirt. Ztg. 103:710. Aug.12, 1950. 18 H194
- 12077 SCHLEMMER, H. F. 75 million acres get a new lease on life; airplane spraying with 2,4,5-T promises to halt the invasion of Southwest range country by thorny, water-hungry mesquite [*Prosopis*]. Country Gent. 120(11):34, 102-104. Nov.1950. 6 C833
- 12078 SHEWELL-COOPER, W. E. War against weeds; continuous hoeing can be as effective as anything. Field 196:839. Nov.11,1950. 10 F45
- 12079 SEELY, C. I. Soil sterilants for perennial weed control. West. Weed Control Conf. Proc. 12:69-71. 1950. 79.9 W52
- 12080 SPERRY, O. E. The effects of 2, 4-D on bitterweed [*Actinea odorata*] seed formation and germination. Tex. Agr. Expt. Sta. Prog. Rpt. 1279, 3 p. Sept.27, 1950. 100 T31P
- 12081 TEMPLEMAN, W. G., and HALLIDAY, D. J. Field experiments in selective weed control by plant-growth regulators. II. The effect of plant-growth regulators upon cereal crops. Empire J. Expt. Agr. 18:169-176. Ref. July 1950. 10 Em7
- 12082 THORNTON, B. J., and BOHMONT, D. W. Use of growth-regulating compounds in controlling perennial weeds. West. Weed Control Conf. Proc. 12:76-89. 1950. 79.9 W52
- 12083 THURSTON, J. M. The wild oat [*Avena fatua*] problem. Farming [Norwich] 4:332-334, 341. Nov.1950. 10 F2236
- 12084 TINGEY, D. C., and TIMMONS, F. L. Control of perennial weeds by cultural methods alone and combined with chemical treatments. West. Weed Control Conf. Proc. 12:72-75. Ref. 1950. 79.9 W52
- 12085 VALLANCE, L. G. The use of pre-emergence and contact sprays for weed control. Queensland Bur. Sugar Expt. Stas. Cane Growers' Q. B. 14:4-10. July 1, 1950. 65.9 Q3C
- 12086 VITTOU, M. T., and PATTERSON, M. E. Granular cyanamide controls weeds in peas. Farm Res. [N. Y. State Sta.] 16(4):8-9. Oct.1950. 100 N48A
- 12087 WARDEN, R. L. Control of annual weeds in small grain by the use of selective herbicides. West. Weed Control Conf. Proc. 12:90-94. 1950. 79.9 W52
- 12088 WESTERN WEED CONFERENCE. Proceedings, 12th annual conference, Denver, Colorado, January 30, 31 and February 1, 1950. n.p., 1950. 140 p. 79.9 W52
- 12089 WOOD, H. E. Up to date on chemical weed control in barley and oil seeds. Canada. Natl. Barley & Oil Seeds Com. Proc. Annu. Mtg. 16:105-107. 1949. 59.9 C169
- 12090 WYMAN, D. Killing woody plants with chemicals. Arnold Arboretum. B. Pop. Inform. 10:61-71. Nov. 1950. 451 Ar6Ba
- 12091 YOST, T. F. State organization for weed control. West. Weed Control Conf. Proc. 12:113-118. 1950. 79.9 W52



# MISCELLANEOUS ECONOMIC PLANTS

(Drug, Dye, Rubber, Etc.)

- 12092 ACUNA PACHECO, C. Sistemas racionales de poda del té. Rev. Agropecuaria del Perú 1(2):50-54. Apr./June 1950. 9.8 R322
- 12093 AUGUSTO B., H. El Departamento de Junín como zona quínera. Rev. Agropecuaria del Perú 1(2):57-58. Apr./June 1950. 9.8 R322
- 12094 BALZRUUD, K. Buckthorn. (In Norwegian.) Birøkteren 66:131-132. Sept. 1950. 424.8 B53  
As honey plant.
- 12095 BARRAU, J. Une plante médicinale de la Nouvelle-Calédonie, *Duboisia myoporoides* R. Br. Rev. Agr. de la Nouvelle-Calédonie (n.s.) 1(7/8):13-14. July/Aug. 1950. 25 R322
- 12096 BELT, J. B. M. VAN DEN. The Dutch bee pasture. (In Dutch.) Maandschr. v. Bijenteelt 52:158-159, 168-169, 186-187. Oct.-Dec. 1950. 424.9 V58
- 12097 BLUM, G. Die Bedeutung der tropischen Nutzpflanzen. (Abs.) Soc. Fribourg. des Sci. Nat. B. Compt. Rend. (1947/49) 39:34. 1950. 508 F89
- 12098 BOMPARD, P. Los grandes remedios vegetales. México, Divulgación, 1949? 139 p. 396 B633As
- 12099 BOUQUET, A., and KERHARO, J. Les végétaux condiments de l'Afrique du Nord dans l'alimentation, la thérapeutique et la magie. Acta Trop. 7:237-274. (To be cont.) 1950. 475 Ac8  
English summary.
- 12100 BOURIQUET, G. La transplantation des jeunes vanilliers issus de semis asymptomatiques. Madagascar. Insp. Gén. des Serv. Agr. B. Agr. 3(23):12-15. May 1950. 25 M26
- 12101 BOWMAN, G. F. Centro Interamericano del Cacao. Inter-Amer. Tech. Conf. Cacao. Actas 2:51-53. 1949. 68.39 In8As
- 12102 BUZINOV, P. A. Honey plants yielding essential oil. (In Russian.) Pchelovodstvo 27:340-341. June 1950. 424.8 P295
- 12103 CAMP, T. Out of the honeycomb. So. African Bee J. 25(4):21. Sept./Oct. 1950. 424.8 So82  
Honey plants.
- 12104 CHIKALOV, P. M. Improvement of seeding characteristics of coriander seeds. (In Russian.) Agrobiologiya 1950(4):119-125. July/Aug. 1950. 20 Ag822  
Germination chiefly.
- 12105 CRAMER, P. J. S. Coffee. (In Dutch.) Chron. Nat. 106:260-264. June 1950. 514 B31  
Culture and research in Indonesia.
- 12106 CRAMER, P. J. S. Rubber. (In Dutch.) Chron. Nat. 106:270-275. Ref. June 1950. 514 B31  
Culture and breeding in Indonesia.
- 12107 DIVAK, A. Kolhoznye khmelevody [Collective farm hopgrowers]. Penza, Penzenskoe Obl. Izd-vo, 1950. 49 p. 70 D64
- 12108 EBES, K. Cacao. (In Dutch.) Chron. Nat. 106:264-265. June 1950. 514 B31  
Culture and research in Indonesia.
- 12109 EBES, K., and VERHAAR, G. Cinchona. (In Dutch.) Chron. Nat. 106:267-270. June 1950. 514 B31  
Culture in Indonesia.
- 12110 EMDEN, J. H. VAN. Tea. (In Dutch.) Chron. Nat. 106:258-260. June 1950. 514 B31  
Culture and research in Indonesia.
- 12111 EVREINOFF, V. A. Le cornouiller (*Cornus mas* Linné) espèce fruitière et technique pour terrains pauvres. Terre d'Oc 32:401-403. Sept. 1950. 14 Ar5
- 12112 GIORGINI, G. Fullers teasel. (In Italian.) Gior. di Agr. 60:302. Sept. 24, 1950. 16 It1G  
*Dipsacus fullonum*.
- 12113 GLUKHOV, M. M. vazheneishie medonosnye rasteniya i sposoby ikh razvedeniya [Most important honey-bearing plants and methods for their cultivation]. Ed. 5, rev. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 624 p. 424 G522
- 12114 HAGEMAN, R. H., and PAGAN, C. The effect of ridging on ease of harvest, root distribution, and toxic constituents of *Derris elliptica*. Trop. Agr. [Trinidad] 27:98-104. Apr./June 1950. 26 T754
- 12115 HARLER, C. R. Pruning procedure in Assam over the past hundred years. Planters' Chron. 45:461-464. Sept. 1, 1950. 22 P693  
From the Tea and Rubber Mail, June 1, 1950.
- 12116 HATAKOSHI, S. Yakuyo shokubutsu saibai chosetho. [Recipe and method of cultivation of medicinal plant]. Tokyo, Nogyo Shoin, 1950. 304 p. 71 H28
- 12117 HOED, F., and ELSOCHT, P. Essai d'introduction de la culture du houblon au Congo Belge. B. Agr. du Congo Belge 41:705-714. Sept. 1950. 24 K83
- 12118 HOFMANN, H. Pharmakologische betrachtungen über Panax ginseng. Forsch. u. Fortschr. 26:128-130. Ref. May 1950. 474 F772
- 12119 HORN, E. F. More about coffee in Pará. Brazilian Business 30(10):31-32. Oct. 1950. 286.8 B732  
Culture and breeding.
- 12120 INTER-AMERICAN TECHNICAL CONFERENCE ON CACAO. 2, TURRIALBA, 1949. Actas. Turrialba, Instituto Interamericano de Ciencias Agrícolas. 1949. 54 p. 68.39 In8As
- 12121 JACOBS, D. L. Economic potential of a new aquatic liverwort [Riccia]. (Abs.) Ecol. Soc. Amer. B. 31:57. Sept. 1950. 410.9 Ec7
- 12122 JUÁREZ, T. Un árbol maravilloso. Siembra [Madrid] 6(8/9):14-17. Aug./Sept. 1950. 15 S11  
Cinchona history.
- 12123 KVARATSKHELIA, T. K., and others. Chaevodstvo [Tea culture]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 366 p. (Uchebnykh i uchebnye posobiya dlya vysshikh sel'skokhozyaystvennykh uchebnykh zavedeniy) 68.1 K97  
T. A. Akulova, G. P. Kantarifa, and A. D. Menagarishvili, joint authors.
- 12124 LEIRA, A. R. Camphor. (In Portuguese.) Seleg. Agr. 5(53):63-64. Sept. 1950. 9.2 Se4  
Sources.
- 12125 LESSER PREUS, R. Preparación de almácigos en aserrín. Rev. Nac. de Agr. [Bogotá] 44(544):19-20. Aug. 1950. 9.4 R32  
Describes results of an experiment with *Hevea* germination.
- 12126 MENDES, J. E. T. Interplanting in coffee. (In Portuguese.) São Paulo Supt. dos Serv. do Café. B. 25:498-504. July 1950. 68.29 Sa63
- 12127 MOLFINO, J. F. Plantas medicinales cucurbitaceas. Chacra 20(239):74-75. Oct. 1950. 9 C34  
Argentina.
- 12128 OROBCHENKO, V. P. Winter rape. (In Russian.) Pchelovodstvo 27:265-267. May 1950. 424.8 P295  
As honey plant.
- 12129 ORTIZ GARMENDIA, J. El culén, Papilionacea chilena. Campesino [Santiago] 82(9):18-19. Sept. 1950. 9.3 So12  
*Psoralea glandulosa* as drug plant.
- 12130 PANOVA, M. A. Tarragon [Artemisia dracuncul]. (In Russian.) Sad i Ogorod 1950(8):78. Aug. 1950. 80 Sa13
- 12131 PESSANHA, M. V. T., and FRAGATA JUNIOR, A. A. *Hevea braziliensis* as a rubber yielding tree in Estação Agrícola Central (Cazengo). (In Portuguese.) Agron. Angolana 3:59-71. 1950. 24 Ag83  
English summary.
- 12132 PETROV, E. M. Greater attention to mountain ash [Sorbus]. (In Russian.) Sad i Ogorod 1950(8):56-59. Aug. 1950. 80 Sa13
- 12133 PONCIN, L. Le cacaoyer à Tafo (Gold Coast): une visite au "West African Cocoa Research Institute" W.A.C.R.I. B. Agr. du Congo Belge 41:677-704. Sept. 1950. 24 K83
- 12134 PORTOLANO, N. Pinching in prickly pear culture. (In Italian.) Ital. Agr. 87:558-560. Sept. 1950. 16 It1
- 12135 ROKHLIN, S. Harvesting of kok-saghyz roots. (In Russian.) Kolhoz. Proizvodstvo 10(7):21-22. July 1950. 281.8 K83
- 12136 ROUSSEAU, A. L'aleurite à Madagascar (les plantations du Lac Itasy). Cahiers des Ingén. Agron. 6:21-25. Second Q. 1950. 14 C112
- 12137 RUBBER RESEARCH INSTITUTE OF MALAYA Note on backward replantings. Rubber Res. Inst. Malaya. C. 31,4 p. June 1950. 78.9 R824C
- 12138 SANIF, S. Medicinal herbs. Econ. Rev. Indonesia 4:54-55. Apr./June 1950. 280.8 Ec725
- 12139 SCHACTLIVY, A. K. Blackberry mountainash [Sorbus]. (In Russian.) Sad i Ogorod 1950(8):59-61. Aug. 1950. 80 Sa13



- 12140 SCHOOREL, A. F. Agricultural basis for pruning and picking Assam tea. (In Dutch.) Arch. v. de Theecult. 16:127-281. Ref. Jan.1950. 68.18 Ea72 English summary.
- 12141 SCHUBERT, F. Trachtverbesserung! Imkerfreund 5:203-204. Nov.1950. 424.8 Im43 Honey plants.
- 12142 SHAPIRO, D. K. Zagotovka lekarstvennykh rastenii proizrastayushchikh v Belorussii [Procurement of medicinal plants growing in White Russia.] Minsk, Gos. Izd-vo BSSR, 1950. 133 p. 71 Sh22
- 12143 SOUZA, A. H. DE. Douradinha of the fields (Palicourea rigida H.B.K., Rubiaceae); its use in beverages. (In Portuguese.) Rev. da Flora Med. 16:451-468. Ref. Nov.1949. 71.8 R32
- 12144 TESTA, J. Coffee plantings in northern Paraná. (In Portuguese.) São Paulo Supt. dos Serv. do Café. B. 25:506-510. July 1950. 68.29 Sa63
- 12145 WILJES, H. G. DE. The sagopalm. Econ. Rev. Indonesia 4:98-99. July/Sept.1950. 280.8 Ec725
- 12146 WILKINSON, R. Our country's natural resources. 1. Seaweed story. Health & Soil 1950:11-13. Summer/Autumn 1950. 56.8 H34
- 12147 XABREGAS, J. Thevetia nerifolia Juss. as an oleaginous plant. (In Portuguese.) Agron. Angolana 3: 121-132. Ref. 1950. 24 Ag83 English summary.
- 12160 CHEPIL, W. S. Methods of estimating apparent density of discrete soil grains and aggregates. Soil Sci. 70:351-362. Nov.1950. 56.8 So3
- 12161 DAY, P. R. Physical basis of particle size analysis by the hydrometer method. Soil Sci. 70:363-374. Nov.1950. 56.8 So3
- 12162 DEACON, E. L. The measurement and recording of the heat flux into the soil. Roy. Met. Soc. [London], Q. J. 76:479-483. Oct.1950. 340.9 R81
- 12163 DELOFFRE, G. Caractères morphologiques de la dégradation de la structure des sols de la région de Dunkerque; sols inondés à l'eau de mer. Paris. Acad. des Sci. Compt. Rend. 231:992-994. Nov.6,1950. 505 P21
- 12164 GOODMAN, D. L. Color tests for clay. Reclam. Era 36:219-220. Nov.1950. 156.84 R24
- 12165 LABUNSKIĬ, I. M. Veliko-Anadol forest and the "dead horizon". (In Russian.) Agrobiologiya 1950(4): 138-142. July/Aug.1950. 20 Ag822 Soil moisture analysis chiefly.
- 12166 MCKIBBEN, G. E., and others. Soil moisture availability in irrigated and nonirrigated pastures. Agron. J. 42:565-570. Nov.1950. 4 Am34P L. E. Gard, C. A. Van Doren, and R. F. Fuelleman, joint authors.
- 12167 PETERSEN, H. The tensiometer; an instrument for measuring soil moisture. (In Danish.) Gart.-Tid. 66:459-460. Oct.11,1950. 80 G192

## Soil Chemistry and Mineralogy

## SOILS AND FERTILIZERS

## SOIL SCIENCE

- 12148 ARENA, A. El suelo agrícola en el planeamiento de los recursos naturales argentinos. II. Cien. e Invest. 6:397-408. Ref. Sept.1950. 475 C482
- 12149 BAREN, F. A. VAN. The history of the development of soil science in Indonesia. (In Dutch.) Chron. Nat. 106:231-245. Ref. June 1950. 514 B31
- 12150 BRUGLÈRE, J. M. Étude pédologique des sols de la Station I.R.C.T. [Institut de Recherches du Coton et des Textiles Exotique] de Kolokope (Togo). Coton et Fibres Trop. 5:137-142. Sept.1950. 73.8 C82
- 12151 GORBUNOV, N. I. Methods for splitting soils and clays into fractions for roentgenographic and thermographic study. (In Russian.) Pochvovedenie 1950:431-435. 57.8 P34
- 12152 HAUSSMANN, G. L'evoluzione del terreno e l'agricoltura [Evolution of the soil and agriculture]. Torino? 1950. 432 p. 33.19 H29
- 12153 KOVDA, V. A. Study and problems of investigation of desert soils in Middle Asia. (In Russian.) In Pavlovskii, E. N., and I'lin, M. M., eds. Pustyni SSSR i ikh osvoenie, p.44-55. Ref. Moskva, Akademiia Nauk SSSR, 1950. 409 P282
- 12154 LARSON, J. D. Soil science begins an epoch. Chemurg. Digest 9(12):4-6. Dec.1950. 381 N213Na
- 12155 LOZET, J. Emploi d'un carnet de notes pour la prospection pédologique. B. Agr. du Congo Belge 41: 663-673. Sept.1950. 24 K83
- 12156 LYND, J. Q. Soil monolith displays. Agron. J. 42:574. Nov.1950. 4 Am34P
- 12157 MEER, K. V. D. Some soil science problems in connection with drainage of sea clay polders. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 61:333-335. Aug.1950. 12 N282
- 12158 PAVLOVSKIĬ, E. N., and I'LIN, M. M. eds. Pustyni SSSR i ikh osvoenie (rezul'taty Soveshchaniia po izucheniiu i osvoeniiu pustyn', sostoiavshegosia 25-29 febralia 1948 g.) [Deserts of U. S. S. R. and their utilization (results of the Conference Feb. 25-29, 1948 on the study and utilization of deserts)]. Moskva, Akademiia Nauk SSSR, 1950. 189 p. 409 P282
- 12168 BARRAU, J. Methodes simples d'appréciation de la valeur d'un sol. Rev. de la Nouvelle-Calédonie (n.s.) 1(5/6):9-10. May/June 1950. 25 R322 Soil analysis.
- 12169 BERGSMA, J. Soil analysis. (In Dutch.) Volkstuin 33:104. Sept.1950. 80 V88
- 12170 BERNIKOV, V. V. Pochvenno-gruntovoe obosnovanie lesomelliorativnykh rabot na igue Omskoĭ oblasti [Soil and ground analysis for improvement by afforestation in the South of Omsk Region]. Omsk, Omskoe Obl. Gos. Izd-vo, 1950. 30 p. 58.26 B45
- 12171 BOWER, C. A. Fixation of ammonium in difficultly exchangeable form under moist conditions by some soils of semiarid regions. Soil Sci. 70:375-383. Ref. Nov.1950. 56.8 So3
- 12172 CHATTERJEE, B. Nature of clay minerals present in Sakrand soll. Indian Chem. Soc. J. 27:268-270. June 1950. 385 In27
- 12173 DORPH-PETERSEN, K. Variations in the acidity and the content of available phosphate, potassium and manganese in a sandy soil during four years. (In Danish.) Tidsskr. f. Planteavl 53:650-677. Ref. 1950. 11 T439 English summary.
- 12174 EASTOE, J. E., and POLLARD, A. G. A modified phenoldisulphonic acid method for determining nitrates in soil extracts etc. J. Sci. Food & Agr. 1:266-269. Ref. Sept.1950. 382 So12
- 12175 EGGLER, J. Pflanzenwelt und bodensäure. Naturw. Ver. f. Steiermark. Mitt. 77/78:21-60. Ref. 1949. 510 G79
- 12176 FAT'IANOV, A. S. Some data on humic substances in illuvial horizons of Chernozem soils of the forest-steppe. (In Russian.) Pochvovedenie 1950:428-430. 57.8 P34
- 12177 FLORY, D. Soils lab [Kansas] runs many tests; helps farmers raise yields. Kans. Agr. Student 27: 11,22. Oct.1950. 276.8 K13
- 12178 MARKOVSKIĬ, A. G. Diagnosis of phosphate regime of the soil with the aid of the chemical and vegetation methods. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. Im. K. A. Timiriazeva. Dok. 11:172-179. 1949. 20 M857
- 12179 MOLFINO, R. H. La variabilidad de la reacción de un suelo en La Plata durante el septenio 1940-1946 y el problema del numero de muestras. La Plata. U. Nac. Facul. de Agron. Rev. 27:1-45. Ref. Dec.1949. 9 R32 English summary.
- 12180 NÚEZ CARRUANA, J. DE LA. Manual práctico de análisis químico de tierra. Agrotecnia 4:73-81. July/Aug.1950. 8 Ag825

## Soil Physics

- 12159 BRACHT, J. Über die wärmeleitfähigkeit des erdbodens und des schnees und den wärmeumsatz im erdboden. Berlin, Akademie-Verlag, 1949. p.147-225. 334 B722 Inaug. -Diss. -Leipzig.



- 12181 NYS, P. F. DE. Rapid soil analysis. (In Flemish.) *Cult. en Handel* 16:497-499. Aug.1950. 80 C892
- 12182 PATHAK, A. N., MUKERJI, S. K., and SHRIKHANDE, J. G. Phosphate fixation in alluvial soils. *Cur. Sci.* 19:290-291. Sept.1950. 475 Sci23
- 12183 READ, H. For the land's sake; in Illinois, a soil test results in an exact fertilizer prescription for the land and a very close estimate of the increased yields it will bring. *Farm Q.* 5(4):50-53,131-137. Winter 1951. 6 F22995
- 12184 RECENT work on the chemical determination of readily soluble phosphorus in soil. 2. *Soils & Fert.* 13:315-322. Ref. Oct.1950. 241 Im7Sf
- 12185 SERVICI DE RONDINI, M. A. Evaluación del nitrogeno orgánico en suelos por Kjeldahl sin destilación. Argentina. *Dir. Gen. de Invest. Agr. Rev. de Invest. Agr.* 3:309-318. Oct.1949. 9 R329
- 12186 SHIKHOVA-VODOVOZOVA, M. V. Saline soil groups of the northern districts in Voronezh Region. (In Russian.) *Pochvovedenie* 1950:530-541. Ref. Sept.1950. 57.8 P34
- 12187 WILLIAMS, E. G. Phosphate fixation and availability. *J. Sci. Food & Agr.* 1:244-248. Aug.1950. 382 Sol2
- In soils.

### Soil Biology

- 12188 ALBRECHT, W. A. The science of microbiology and its connection with wise soil management. *Power Farming Austral. & New Zeal.* 59(8):41,43,45. Aug.1950. 58.8 P87
- 12189 BOGOPOL'SKIĬ, M. D. Root system of grasses—biological factor in self-cleaning of soils. (In Russian.) *Priroda* 39(8):66-68. Aug.1950. 410 P933
- 12190 BRUIN, P. Supplying organic matter to the Dutch soil and research on how this can be improved. (In Dutch.) *Landbk. Tijdschr.* 62:611-619. Aug.1950. 105.2 Or3
- Soil biology.
- 12191 CANEVER, R. B. Should we harness our worms? *Health & Soil* 1950:8-10. Summer/Autumn 1950. 56.8 H34
- 12192 CELINO, M. S. Tap the nitrogen reserve of the air. *Soil Sci. Soc. Philippines. J.* 2:196-198. Third Q.1950. 56.9 So35
- Nitrogen fixation by bacteria.
- 12193 CHRISTENSEN, J. J. Microorganisms go to war in the soil. *Minn. Farm & Home Sci. [Minn. Sta.]* 8: 5-6. Oct.1950. 100 M668
- 12194 COLDWELL, B. B., and DELONG, W. A. Studies of the composition of deciduous forest tree leaves before and after partial decomposition. *Sci. Agr.* 30:456-466. Ref. Nov.1950. 7 Sci2
- 12195 DONOVAN, B. The production of antibiotics in the soil. *Health & Soil* 1950:33-34. Summer/Autumn 1950. 56.8 H34
- 12196 FEDOROV, M. V. Effect of high molecular combinations of nitrogen on atmospheric nitrogen fixation by *Azotobacter* [agile]. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 11:150-153. 1949. 20 M857
- 12197 FRANZ, H. Die biologischen Grundlagen der Bodenfruchtbarkeit. *Naturw. Ver. f. Steiermark. Mit.* 77/78:151-152. 1949. 510 G79
- 12198 JENSEN, H. L. The occurrence of *Azotobacter* in cultivated soils of Denmark. (In Danish.) *Tidsskr. f. Planteavl* 53:622-649. Ref. 1950. 11 T439
- English summary.
- 12199 KARRAKER, P. E., BORTHER, C. E., and FERGUS, E. N. Nitrogen balance in lysimeters as affected by growing Kentucky bluegrass and certain legumes separately and together. *Ky. Agr. Expt. Sta. B.* 557,16 p. Sept.1950. 100 K41
- 12200 KUBIENA, W. Wesen und Formen der Humusbildung. *Naturw. Ver. f. Steiermark. Mitt.* 77/78:173-174. 1949. 510 G79
- 12201 MARSHALL, R. M. Soil—a living mass. II. *Tex. Livestock J.* 9(9):6. Sept.1950. 49 T29
- 12202 MISHUSTINA, V. K. Change in position of cardinal temperature points in geographic races of *Bacillus mycoides* [from Sierozem soil.] effected by culturing conditions. (In Russian.) *Mikrobiologiya* 19: 226-228. Ref. May/June 1950. 448.3 M582

- 12203 PEERLKAMP, P. K. The influence of organic matter on soil structure and wind erosion. (In Dutch.) *Landbk. Tijdschr.* 62:594-611. Ref. Aug.1950. 105.2 Or3
- English summary.
- 12204 POPE, E. Earthworms and soil-building in Australia. *Austral. Mus. Mag.* 10:89-94. Sept.15,1950. 475 Au7
- 12205 RANSOM, J. E. The worm that turns increases crop yields & enriches poor soils. *Better Farms* 10(4): 5,12. Oct.1950. 6 B462
- 12206 ROSOVSKAĬA, V. S., and GUDKOVA, T. V. Methods for quantitative estimation of microorganisms antagonistic to other organisms producing antibiotics in the soil. (In Russian.) *Mikrobiologiya* 19:235-238. May/June 1950. 448.3 M582
- 12207 SCHÖNBACH. Grundsätzliches sur biologischen bodensanierung, zur vorwaldidee und ihrer verwirklichung. *Deut. Landwirt. Gesell. Arb. (n.s.)* 5:193-204. 1949. 18 D48
- 12208 SMETS, E. The natural balance of tilled soils. (In Flemish.) *Cult. en Handel* 16:499-500. Aug.1950. 80 C892
- 12209 SUBRAMONEY, N. A new species of *Azotobacter* isolated from the acid peats (Karl soils) of Travancore-Cochin. *Cur. Sci.* 19:279. Sept.1950. 475 Sci23

### Soil-Plant-Animal Relationships

- 12210 ALBRECHT, W. A. Cows are capable soil chemists. *Org. Farmer* 2(3):46-48. Oct.1950. 57.8 Or3
- 12211 ALBRECHT, W. A. Diseases as deficiencies via the soil. *Amer. Acad. Appl. Nutr. Mon. Newslet. J.* 3(9):3-5. Sept.1950. 389.9 Am352
- 12212 BLAKE, A. A. Incidence of cavities related to health of soil. *Org. Farmer* 2(3):48. Oct.1950. 57.8 Or3
- From the Dental World.
- 12213 COOK, C. A. For land's sake. *Amer. Acad. Appl. Nutr. Mon. Newslet. J.* 3(9):5-6. Sept.1950. 389.9 Am352
- Effects of soils upon health.
- 12214 FLETCHER, P. Soils and nutrition. *Amer. Acad. Appl. Nutr. Mon. Newslet. J.* 3(9):9-10. Sept. 1950. 389.9 Am352
- 12215 FORSTER, H. C. Soil fertility and the interaction of soil with plant and animal. *Austral. Inst. Agr. Sci. J.* 16:44-52. Ref. June 1950. 23 Au74
- 12216 GLASS, B. Our life-sustaining land. *Tex. J. Sci.* 2:287-295. Sept.30,1950. 470 T31
- 12217 HENNER, G. Parallelen in pflanzenbau und tierzucht. *Deut. Landwirt. Presse* 73(20):5. Sept.23,1950. 18 D482
- Effect of soils upon plants and animals.
- 12218 MAHONEY, C. H. Do chemical fertilizers adversely affect nutritive value of fruits and vegetables? 1. *Food Packer* 31(13):21,30,32,34. Dec.1950. 286.8 C165
- 12219 MATRONE, G., and others. Effects of phosphate fertilization on the nutritive value of the soybean plant. (Abs.) *J. Anim. Sci.* 9:675. Nov.1950. 49 J82
- F. H. Smith, J. A. Weybrew, V. B. Weldon, W. J. Petersor and W. W. Woodhouse, joint authors.
- 12220 SCHIMKE, J. Betrachtungen über die futterpflanze als vermittlerin zwischen tier und boden. *Deut. Tierärztl. Wchnschr.* 57:211-212. (Concl.) Ref. July 1, 1950. 41.8 D482
- 12221 TALLARICO, G. "Sick" plants and health-producing vegetables. (In Italian.) *Glor. di Agr.* 60:319. Oct.8,1950. 16 It1G
- Effects of fertilizers on nutritive value.

### Soil Genesis, Formation, Classification, and Mapping

- 12222 FEHRENBACHER, J. B., SMITH, R. S., and ODELL, R. T. Christian County soils. Ill. Agr. Expt. Sta. *Soil Rpt.* 73,62 p. Aug.1950. 100 IL6So
- 12223 GERASIMOV, I. P. Academician L. I. Prasolov's works on cartography of world soils and their importance. (In Russian.) *Pochvovedenie* 1950:394-399. Ref. 57.8 P34
- 12224 IARKOV, S. P. Works on construction of soil map of U.S.S.R. for higher institutions of learning. (In Russian.) *Pochvovedenie* 1950:418-422. 57.8 P34
- 12225 KRAVTSOV, A. I. Zonality of ground waters and soil geographic zones. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 11:196-198. 1949. 20 M857



- 12226 KRISHNA, P. G., and PERUMAL, S. Formation of quagmires (phodas) in soils of the Nizamsagar Project Area, Hyderabad State, India. *Soil Sci.* 70:335-344. Nov.1950. 56.8 So3
- 12227 PERU. DIRECCIÓN GENERAL DE AGRICULTURA. DIV. DE AGROLOGÍA, SUELOS Y ABONOS. Estudio agrológico del Valle del Mantaro. *Rev. Agropecuaria del Perú* 1(2):23-25. Apr./June 1950. 9.8 R322
- 12228 PETROV, B. F. Brief survey of soils of Asia. (In Russian.) *Pochvovedenie* 1950:407-417. Ref. 57.8 P34
- 12229 PRINCIPI, P. The agricultural lands of Liguria. XIII. (In Italian.) *Ital. Agr.* 87:621-627. Oct. 1950. 16 It1
- 12230 ROMERO, I. A. The soils of Adtuyon, Maragmag, Bukidnon Province. *Soil Sci. Soc. Philippines. J.* 2:191-195. Third Q.1950. 56.9 So35
- 12231 ROSELL, D. Z. The score card method of land classification and valuation. *Soil Sci. Soc. Philippines. J.* 2:173-180. Ref. Third Q.1950. 56.9 So35
- 12232 ROZOV, N. N. Soil survey maps of European U.S.S.R. and their importance for development of soil geography. (In Russian.) *Pochvovedenie* 1950:400-406. 57.8 P34
- 12233 TSVETKOV, M. A. First cartographic data on soils of European Russia. (In Russian.) *Pochvovedenie* 1950:423-427. 57.8 P34

## SOIL MANAGEMENT

- 12234 ARMSTRONG, J. Erosion builds farm. *Idaho Farmer* 68:759. Oct.19,1950. 6 G282  
Reclaiming swamp land with controlled erosion.
- 12235 BARTON, S. H. New organic husbandry in Europe. *Amer. Acad. Appl. Nutr. Mon. Newslet. J.* 3(9):3-8. Sept.1950. 389.9 Am352
- 12236 BOWMAN, F. T. Advances in fruit-soil management. *Austral. Inst. Agr. Sci. J.* 16:65-68. June 1950. 23 Au74
- 12237 BUTLER, E. Making good land better. *Prog. Farmer, Tex. Ed.* 65(11):18. Nov.1950. 6 T311
- 12238 CALZECCHI-ONESTI, A. Meditations on four illustrations of great educational value. (In Italian.) *Glor. di Agr.* 60:349. Nov.5,1950. 16 It1G  
Pictures illustrating dry farming method.
- 12239 CHAMPLIN, M. J. Flax doesn't cut yield of following crops; tests indicate weeds to blame for reduction of grains planted in later years. *Saskatchewan Farmer* 41(21):10. Nov.2,1950. 7 Sa74
- 12240 DOUGALL, B. M. The effects of open-cast coal mining on agricultural land. *J. Sci. Food & Agr.* 1:225-229. Aug.1950. 382 So12  
England.
- 12241 FEDOROVICH, B. A. Fundamental results and problems in the study of deserts in connection with the problem of their utilization and transformation. (In Russian.) In Pavlovskii, E. N., and I'lin, M. M., eds. *Pustyni SSSR i ikh osvoenie*, p.14-43. Ref. Moskva, Akademika Nauk SSSR, 1950. 409 P282
- 12242 INDIA. INFORMATION SERV., WASHINGTON, D. C. Land reclamation. Washington, 1950. 4 p. 54 In2
- 12243 KAPNER, S. H. Food and people. 3. More food from the same soil. *Agr. & Indus. Life* 12(10):8-9. Oct.1950. 25 Ag8  
Philippine Republic.
- 12244 LAING, R. T. Open pit mining. *Pa. Forests & Waters* 2:100-101,113-114. Sept./Oct.1950. 99.8 P38  
Land reclamation.
- 12245 LAMB, J., JR., CARLETON, E. A., and FREE, G. R. Effect of past management and erosion of soil on fertilizer efficiency. *Soil Sci.* 70:385-392. Ref. Nov. 1950. 56.8 So3
- 12246 MARTIN, R. S. Soil conditioning. *Camellia Rev.* 12:7-8. Oct.1950. 97.31 So82
- 12247 MIDDOUR, J. C. Reclamation of strip mined areas. *Pa. Forests & Waters* 2:98-99,110-111. Sept./Oct.1950. 99.8 P38
- 12248 PEARSON, H. E. Controlling soil salinity in Camellia culture. In Southern California Camellia Society. Horticultural Research Committee. *Camellia research*, p.28-30. Pasadena, 1950. 97.31 So822
- 12249 PIRZADA, A. R. Effect of various rabi treatments on the yield of paddy crop. (Abs.) *Co-op. & Mktg. Rev.* 4:242. July 1950. 280.28 C78243  
Following versus planting *Lathyrus sativus* and *Cicer arietinum* for winter crops.
- 12250 RÜBENSAM, E. Wiljams, der Mitschurin in der bodenkunde. *Deut. Landwirt.-Gesell. Mitt.* 3:276-277. Aug.1950. 18 D48M1
- 12251 SPIRHZANZL, J. New era inaugurated in the history of land improvement technique. *Interagra* 4:282-256. 1950. 28 In825
- 12252 STAHR, A. More profit without chemicals. *Org. Farmer* 2(3):10-11. Oct.1950. 57.8 Or3
- 12253 STEPHENSON, R. E. Saving soil proves richly rewarding in many ways. *Better Fruit* 45(5):17-21. Nov. 1950. 80 B46
- 12254 TEMPANY, SIR H. A. Shifting cultivation in tropical regions. *Brit. Agr. B.* 3:112-114. Summer 1950. 10 B776
- 12255 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Chautauqua County, Kansas. Manhattan, 1950. 22 p. 1.96 L22Ph
- 12256 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Clay County, Kansas. Manhattan, 1950. 23 p. 1.96 L22Ph
- 12257 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Greenwood County, Kansas. Manhattan, 1950. 19 p. 1.96 L22Ph
- 12258 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Harvey County, Kansas. Manhattan, 1950. 25 p. 1.96 L22Ph
- 12259 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Johnson County, Kansas. Manhattan, 1950. 18 p. 1.96 L22Ph
- 12260 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Lincoln County, Kansas. Manhattan, 1950. 23 p. 1.96 L22Ph
- 12261 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Riley County, Kansas. Manhattan, 1950. 20 p. 1.96 L22Ph
- 12262 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Rush County, Kansas. Manhattan, 1950. 19 p. 1.96 L22Ph
- 12263 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Thomas County, Kansas. Manhattan, 1950. 16 p. 1.96 L22Ph
- 12264 VER STEEG, G. Water conservation plan for Des Moines watershed. *Iowa State Watersheds B.* 1(6):7. Oct.1950. 290.8 Io9
- 12265 WASHINGTON. AGRICULTURAL EXPERIMENT STATION. Soil, water, and crop management investigations in the Columbia Basin Project. *Wash. Agr. Expt. Sta. B.* 520,75 p. Nov.1950. 100 W27E  
U. S. Department of Agriculture cooperating.
- 12266 WHITLOCK, R. Restoration of the land; a report on conditions and cultivation after opencast mining [Great Britain]. *Field* 196:772-775. Nov.4,1950. 10 F45
- 12267 WITTICH, W. Die bodenkundlichen Grundlagen des Syker mellorationsverfahrens. *Allg. Forstz.* 5:401-404. Sept.27,1950. 99.8 AL52
- 12268 WOOD, W. E. Crops after opencast. *Farmers Wk.* [London] 33(7):45,47-48. Aug.18,1950. 10 F2226  
Opencast coal mining and the loss of agricultural land in Britain.
- 12269 WURSTER. Bodenbearbeitung durch chemische mittel. *Deut. Landwirt. Gesell. Arb.* (n.s.) 5:188-192. 1949. 18 D48
- 12270 YOHE, R. Get more from fewer acres. *Prairie Farmer, Gen. Ed.* 122(21):5,46. Nov.4,1950. 6 P883  
Soil improvement.



## Soil Fertility

- 12271 ABDULLAEV, A. G. Legumes for green manure in the orchards of Azerbaidzhan. (In Russian.) Sad i Ogorod 1950(8):42-45. Aug. 1950. 80 Sa13
- 12272 ALBRECHT, W. A. Why roots grow deep. Farm Q. 5(4):66-67, 108. Winter 1951. 6 F22995  
Effect of soil fertility on root growth.
- 12273 ALDRICH, S. Does your lime show? Amer. Agr. 147:593, 605. Nov. 4, 1950. 6 Am3
- 12274 BALEV, P. M. Effect of tillage, plants and fertilizers on humus content and on other properties of the soil. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 11:58-62. 1949. 20 M857
- 12275 BATTISTELLI, E. Grain cultivation. (In Italian.) Cron. Econ. 89:19-21. Sept. 15, 1950. 280.8 C882  
Fertilization in Italy.
- 12276 BEAR, F. E. Food and fertilizer. Com. Fert. 81(5):24-25, 46, 48-49, 51. Nov. 1950. 57.8 C73
- 12277 BEAUCHAMP, C. E. Nutrición y abonado de las plantas económicas. II. Cons. Interamer. de Com. y Prod. Cuest. Agr. 6, 43 p. 1950. 281.9 C7662
- 12278 BECKER-DILLINGEN, H. Die düngefibel für den bauern und gartenfreund. München, Bayerischer Landwirtschaftsverlag, 1950. 164 p. 57 B382
- 12279 BELL, R. W. Legumes can help you, give them a chance. Sugar Beet J. 16:11-14. Nov./Dec. 1950. 66.8 Su38
- 12280 BENTZ, F. L., JR., and STABLER, S. P. What do you know about liming? Md. Farmer 34(10):2, 27, 30. Oct. 1950. 6 M362
- 12281 BERNARD, P. Il faut équilibrer la fumure du blé. Monit. Agr. 3(133):1-2. Oct. 29, 1950. 14 M744
- 12282 BERTOLINI, New directions in the fertilization of fruit trees. (In Italian.) Agr. Bresclana 3(43):2, 4. Oct. 25, 1950. 16 Ag89
- 12283 BLÜMKE, Die stickstoffdüngung im herbst. Deut. Landwirt. Presse 73(21):4-5. Oct. 7, 1950. 18 D482
- 12284 BÖSENBERG, T. Über kalkdüngemittel. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1414. Oct. 12, 1950. 18 L2346
- 12285 BOULD, C. Plant foods: conversion is more important than the total supply. Grower [London] 34: 1050-1051. Nov. 18, 1950. 286.83 M34
- 12286 BROMFIELD, L. A farmer looks at fertilizer. Natl. Fert. Assoc. [Pam.] 152:15-21. 1950? 57.9 N212P
- 12287 BRÜNE, F. Nochmals: wirtschaftlichkeit der stickstoffdüngung auf hochmoorweiden. Deut. Landwirt. Presse 73(21):8. Oct. 7, 1950. 18 D482
- 12288 BUZINOV, P. A. Fertilizers for sugar beets in the south-eastern districts. (In Russian.) Sakh. Promysh. 24(7):39-41. July 1950. 65.8 Sa2
- 12289 CATALINA, L. Agotamiento de los suelos. Cult. Mod. 33:338. Sept. 1950. 15 C89
- 12290 CHAPRON, C. Apres les journées du phosphate; les carences nées de la pénurie sont-elles définitivement conjurées? Unité Paysanne 5(255):1, 6. Oct. 14, 1950. 14 Un3
- 12291 CURCIO, M. Fertilizing tobacco. (In Italian.) Tabacco 54:268-272. Aug. 1950. 69.8 T115
- 12292 DOEHLERT, C. A. Distributing fertilizer by airplane. Cranberries 15(7):6-8, 12. Nov. 1950. 80 C852
- 12293 DROSDOFF, M., and LAGASSE, F. S. Which soils are suited to tung production. Amer. Tung News 1(11):3, 16-17. Sept. 1950. 307.8 Am33
- 12294 DUCHAUFOR, P. L'humus forestier et les facteurs de sa décomposition. For. Forest. Franç. 1950: 479-488. Sept. 1950. 99.8 R329
- 12295 DUNNEWALD, T. J. Improving native hay meadows in Wyoming. Wyo. Agr. Expt. Sta. C. 38, 20 p. Ref. Oct. 1950. 100 W99
- 12296 EGOROV, V. E. Effect of continuous use of crop rotations and fertilizers on yields of crops and properties of the soil. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 11:45-57. 1949. 20 M857
- 12297 ELBERS, H. Saatenstand und kalkzustand des bodens. Hannoversche Land- u. Forstwirt. Ztg. 103:751. Aug. 26, 1950. 18 H194
- 12298 ENGLE, R. H. Know plant roots, it will pay you well. Fert. Rev. 25(4):8-9, 14. Oct./Dec. 1950. 57.8 F414
- 12299 EYSTER, W. H. What plants eat. Org. Farmer 2(4):42-45. Nov. 1950. 57.8 Or3
- 12300 FELBER, W. Herbsdüngung der wintersaat—schon jetzt aktuell. Hannoversche Land- u. Forstwirt. Ztg. 103:713. Aug. 12, 1950. 18 H194
- 12301 FERGUSON, M. H., and GRAU, F. V. What about liquid fertilizers? USGA Journal 3(6):29-30. Nov. 1950. 60.18 Un32
- 12302 FERRAZ, C. B. Time of fertilizer application. (In Portuguese.) Soc. Rur. Brasil. Rev. 30(357):54-56. Aug. 1950. 9.2 B733
- 12303 FIEDLER, Der verfall der kulturböden. Deut. Landwirt. Presse 73(21):3. Oct. 7, 1950. 18 D482
- 12304 FONDARD, L. Essais d'engrais sur pomme de terre. Réveil Agr. 59:259-260. Sept. 1, 1950. 14 R322
- 12305 FONDARD, L. La verse des céréales. Réveil Agr. 59:323-324. Nov. 1, 1950. 14 R322  
Fertilizers.
- 12306 FROMM, K. Tests show nitrogen is key to bromegrass seed, forage. Kans. Agr. Student 27:10, 28. Oct. 1950. 276.8 K13
- 12307 GARATTONI, E. Proper fertilization. (In Italian.) Spezia Agr. 5(10):1. Oct. 1, 1950. 16 Sp3
- 12308 GERICKE, S. Düngungsfragen im zuckerrübenbau. Zucker 3:341-345. (Cont.) Aug. 15, 1950. 65.8 Z82
- 12309 GERTLER, A. Späte kopfdüngung mit "grünkorn." Hannoversche Land- u. Forstwirt. Ztg. 103:773. Sept. 2, 1950. 18 H194
- 12310 GÉZE, B. L'étude des sols dans ses rapports avec la viticulture. Prog. Agr. et Vitic. 1950:268-273. Oct. 22/29, 1950. 14 P94
- 12311 GLITZ, H. Wirtschaftlichkeit der stickstoffdüngung auf hochmoorweiden. Deut. Landwirt. Presse 73(19):6. Sept. 9, 1950. 18 D482
- 12312 GOSS, A. S. The meaning of fertilizers to Grange members. Natl. Fert. Assoc. [Pam.] 152:27-28. 1950? 57.9 N212P
- 12313 GREGOR, J. W., WATSON, P. J., and CONNELL, W. D. The moorland farm: using permanent grass for a special purpose. Scot. Agr. 30:102-106. Autumn 1950. 10 Sco82So  
Productiveness of treated permanent pasture.
- 12314 HEYELMANN, F. Ernährung und fruchtbarkeit beim obstbaum. Gartenjahr 5:35, 52-54. Mar.-Apr. 1950. 80 G1932
- 12315 KALLBRUNNER, H. Woran kranken unsere bergbauernwirtschaften? Kärntner Bauer 100:331-332. Sept. 15, 1950. 19 K14  
Soil fertility and fertilizers.
- 12316 KAWA, A. Probleme der kalkdüngung. Hannoversche Land- u. Forstwirt. Ztg. 103:769-770. Sept. 2, 1950. 18 H194
- 12317 KLINE, A. B. The meaning of fertilizers to members of the American Farm Bureau Federation. Natl. Fert. Assoc. [Pam.] 152:25-26. 1950? 57.9 N212P
- 12318 KURSCHEN, C. Fertilization of mountain pastures. II. (In Italian.) Agr. Trent. 4(4):3. Feb. 15, 1950. 16 Ag8263
- 12319 LAGERROTH, S. Don't burn the straw, re-store it to the soil. (In Swedish.) Försök och Forsk. 7: 71. Sept. 1950. 11 F77
- 12320 LINDAU, F. Zur herbstdüngung: camaphos und camaphoska. Allgäuer Bauernbl. 18:622. Oct. 19, 1950. 18 AL53  
Lime-magnesium-phosphate and lime-magnesium-phosphate-potash fertilizers.
- 12321 MCFADDEN, A. J. The meaning of fertilizers to cooperative members. Natl. Fert. Assoc. [Pam.] 152: 29. 1950? 57.9 N212P  
National Council of Farmer Cooperatives.
- 12322 MACINTIRE, W. H., and others. Fertilizer evaluation of certain phosphorus, phosphorous, and phosphoric materials by means of pot cultures. Agron. J. 42: 543-549. Nov. 1950. 4 Am34P  
S. H. Winterberg, L. J. Hardin, A. J. Sterges, and L. B. Clements, joint authors.
- 12323 MANRESA XAMENA, J. Abonado. Balearic Isl. Diputación Prov. B. de Agr. 72:6. Sept. 1950. 15 B19
- 12324 MARFORI, R. T., VILLANUEVA, I. E., and SAMANIEGO, R. A critical study of the fertilizer requirements of lowland rice and some Philippine soil types. Soil Sci. Soc. Philippines. J. 2:155-172. Ref. Third Q. 1950. 56.9 So35



- 12325 MATAGRIN, A. Valeur comparée des phosphates comme fertilisants, d'après de récentes expériences françaises, danoises et américaines. *Terre d'Oc* 32: 459-462. Oct. 1950. 14 Ar5
- 12326 MAURON, P. La fertilité du sol. *Prog. Agr. et Vitic.* 1950:276-278. Oct. 22/29, 1950. 14 P94
- 12327 MEDNIS, Ī. Feeding plants by aerial spraying. (In Russian.) *Kolkhoz. Proizvodstvo* 10(6):42. June 1950. 281.8 K83
- 12328 MEER, K. V. D. Yields of some apple varieties in connection with the soil profile. (In Dutch.) *Nederland. Heidemaatsch. Tijdschr.* 61:292-295. Oct. 1950. 12 N282
- 12329 MIEGE, E. L'enrichissement du sol en humus. *Inform. Marocaine* 507:1-2. Sept. 30, 1950. 281.8 In3
- 12330 MORETTI, A. Investigations on nitrogen fertilization of peaches. (In Italian.) *Riv. di Fruttic.* 12: 197-225. Ref. (Cont.) Oct. 1950. 80 R52
- English summary.
- 12331 NELSON, E. M. Oregon growers discover good cover crops assist. *Goodfruit Grower* 3(12):5. Sept. 7, 1950. 80 C61
- 12332 NEUGEBAUER, V. Possibility of a agricultural exploitation of Banat's sodium Solonchaks soils. (In Serbian.) *Yugoslavia. Min. Poljoprivrede. Radovi Poljoprivrednih Naučno-Istraživačkih Ustanova* 1:53-58. 1949. 21.5 Y93
- English summary.
- 12333 NEW CALEDONIA. SERV. DE L'AGRICULTURE. Utilisation des engrais chimiques. *Rev. Agr. de la Nouvelle-Calédonie (n.s.)* 1(7/8):11-13. July/Aug. 1950. 25 R322
- 12334 NIKLAS. Steigerung des düngeraufwandes ist notwendig! *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A: 1235. Sept. 7, 1950. 18 L2346
- 12335 NISSEN, O., MEYER, H. A., and RICHER, A. C. Trends and variations in yields from the Jordan Fertility Plots. *Pa. Agr. Expt. Sta. B.* 533, 18 p. Oct. 1950. 100 P381
- Effect of fertilizers on grain and hay.
- 12336 ORLOV, I. Izvestkovanie pochv (po materialam kolkhozov i opytnykh stantsiy Smolenskoi oblasti) [Liming of soils (according to data of collective farms and experiment stations in Smolensk Region)]. *Smolensk, Smolenskoe Obl. Gos. Izd-vo*, 1950. 34 p. 57.1 Or5
- 12337 PEREZ GARCIA, M. Alerta a la conciencia agricola de Hispano América. *Agr. Costarricense* 7:357, 359-361. Sept./Oct. 1950. 8 Ag895
- Mismanagement and consequent deterioration of soil.
- 12338 PERRIER, M. Comment fumer la vigne. *Voix des Colons* 32(1576):3. Oct. 2, 1950. 24 V85
- 12339 PINEDA, C. C. Farmers and fertilizers. *Soil Sci. Soc. Philippines. J.* 2:199-200. Third Q. 1950. 56.9 So35
- 12340 PLANT, W. Soil fertility. *Fert. Feed. Stuffs & Farm Supplies J.* 36:601-604. Oct. 4, 1950. 57.8 F413
- 12341 POULSEN, J. F. On criterions for the nitrogen effect of manure. (In Danish.) *Tidsskr. f. Planteavl* 53: 557-621. Ref. 1950. 11 T439
- 12342 PRUMMEL, J. Drill applications of fertilizers (In Dutch.) *Landbk. Tijdschr.* 62:620-627. Aug. 1950. 105.2 Or3
- English summary.
- 12343 RAO, H. G. G., and GOVINDARAJAN, S. V. Increased yields of ragi through zinc salt fertilization. *Cur. Sci.* 19:242. Aug. 1950. 475 Sci23
- 12344 REITERER, M. Bodenuntersuchungen helfen richtig düngen. *Kärntner Bauer* 100:333-334. Sept. 15, 1950. 19 K14
- 12345 RENDIG, V. V., MARTIN, W. E., and SMITH, F. F. Pasture forage—fertilization affects composition of forage on phosphorus-deficient soils. *West. Livestock J.* 28(64):56-58. Nov. 15, 1950. 6 F2278
- 12346 RIVEROS, J. E. Como debe abonarse con guano el viñedo. *Vinos, Viñas y Frutas* 45:129-131. Aug. 1950. 9 Ag89
- 12347 RODALE, R. Watch your N-P-K! Nitrogen, phosphorus, and potassium are major plant nutrients taken by plants from the soil. *Org. Gard.* 17(5):42, 58-59. Nov. 1950. 56.8 Or3
- 12348 SCHLUGA, N. Baumscheiben durch freiwilligen arbeitsdienst der schweine. *Osterr. Landtech.* 3:159. June 1950. 58.8 L236
- Pasturing swine in orchards.
- 12349 SEKERA. Die wiederbelebung des bodens. *Deut. Landwirt. Presse* 73(19):1-2. Sept. 9, 1950. 18 D482
- 12350 SHAPAR', M. T. Udobrenie, moshchnoe sredstvo povysheniya urozhaya kartofelya [Fertilizer—effective means for increasing potato yields]. *Irkutsk, Irkutskoe Obl. Gos. Izd-vo*, 1950. 31 p. 75 Sh22
- 12351 SHARPE, R. H., BLACKMON, G. H., and GAMMON, N., JR. Progress report of potash and magnesium fertilization of pecans in Florida. *Soeast. Pecan Growers Assoc. Proc.* 43:86-92, 94, 96-97. 1950. 94.69 G29
- Includes discussion.
- 12352 SHEWELL-COOPER, W. E. Planting roses; a slightly acid soil will produce the best results. *Field* 196: 797. Nov. 4, 1950. 10 F45
- 12353 SNIDER, H. J. Bromegrass-alfalfa needs fertile soil. *Hoards Dairyman* 95:825. Nov. 25, 1950. 44.8 H65
- 12354 STAICU, I. Wel beeinflusst das ackern die fertilitätszustände des bodens und die produktivität einiger kulturpflanzen? *Z. f. Acker- u. Pflanzenbau* 92:431-449. Sept. 1950. 18 J825
- 12355 STATION AGRICOLE DU LAC ALAOTRA. Essais de fumure sur le riz. *Madagascar. Insp. Gén. des Serv. Agr. B. Agr.* 3(23):3-11. May 1950. 25 M26
- 12356 STEPHENSON, R. E. Build up humus in your orchard. *Better Fruit* 45(5):5, 22. Nov. 1950. 80 B46
- 12357 STEWART, A. B. Fertilizers and lime in Scotland. I. Fertilizers and crop production. *Scot. Agr.* 30:107-111. Autumn 1950. 10 Sco82So
- 12358 THIERY, P. Le problème des amendements calcaires tel qu'il se pose en France. *France. Min. de l'Agr. B. Tech. d'inform.* 52:563-569. Sept. 1950. 14 F844B
- 12359 TICO, L. Cómo lograr mayores cosechas. *Cult. Mod.* 33:330. Sept. 1950. 15 C89
- Fertilizing.
- 12360 TRENTIN, A. Fertilization of wheat. (In Italian.) *Agr. del Polesine* 2:135-136. Sept. 1950. 16 Ag8222
- 12361 TREVETT, M. F. Use of fertilizer for Maine blueberries. *Maine. Agr. Expt. Sta. Mimeog. Rpt.* 8, 11 p. Feb. 1950. 100 M28M
- 12362 VIETS, F. G., JR. Effect of rate of nitrogen application upon a Sudan grass green manure crop and its influence upon the yield and nitrogen requirement of potatoes. *Agron. J.* 42:537-542. Nov. 1950. 4 Am34P
- 12363 VOCHELLE, J. L'utilisation directe de l'ammoniac comme engrais. *Nord Agr.* 7(3):2. Nov. 17, 1950. 14 N75
- 12364 VYSHINSKIY, A. M. Effect of granulated fertilizers on yields of grain crops and sugar beets. (In Russian.) *Soviet. Agron.* 8(8):18-25. Aug. 1950. 20 So84
- 12365 WAAGSTROEM. Düngerkalk im waldbau. *Osterr. Forst- u. Holzwirt.* 5:139-140. May 7, 1950. 99.81 Os7
- 12366 WEGER, N. Feuchterer boden und höhere erträge ohne bewässerung! *Gartenjahr* 5:70-71. May 1950. 80 G1932
- Cover crop in orchard.
- 12367 WORSWICK, G. D. Tree symptoms and leaf analysis determine potash needs. *Better Crops Plant Food* 34(9):19-22, 41-43. Nov. 1950. 6 B46
- 12368 WRIGHT, L. E., SCHURMAN, D. C., and ATKINSON, H. J. Soil fertility studies. II. Manure and fertilizers for potatoes at Charlottetown, P.E.I. *Sci. Agr.* 30:447-455. Nov. 1950. 7 Sci2
- 12369 WRIGHT, R. Corn every year? *Farm J.* 74(12):37, 117. Dec. 1950. 6 F2212
- Alfalfa grown with the corn, is turned under just before the corn is planted.
- 12370 YOHE, R. S. Bigger acres; do you know what crops will yield the greatest returns from your soils? *Prairie Farmer, Gen. Ed.* 122(22):5. Nov. 18, 1950. 6 P883
- Soil fertility.

#### Soil Tilth and Tillage

- 12371 AFANAS'EV, G. V. Cultivation of parent material horizon of turyf-Podzolic soils. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 11:165-167. 1949. 20 M857



12372 BRANZKA, A. Wenn der acker reden könnte! Hannoversche Land- u. Forstwirt. Ztg. 103:609. (Concl.) July 1, 1950. 18 H194  
Tillage.

12373 CHIZHEVSKII, M. G., and IAMNIKOV, A. N. System of summer fallow tillage in the Chernozem area. (In Russian.) Sovet. Agron. 8(6):70-76. Ref. June 1950. 20 So84

12374 EYSTER, W. H. Winterize your plants; mulching plants is one of Nature's laws. Org. Gard. 17(5):31-34. Nov. 1950. 56.8 Or3

12375 FITZGERALD, O. A., and HAGEN, C. Sub-surface tillage crusader. Wash. Farmer 75:755. Oct. 19, 1950. 6 R151

12376 HILTON, R. J., and GRIFFEN, R. N. Mulches for vegetable crops. West. Canad. Soc. Hort. Rpt. Proc. 6:19-21. 1950. 82 W522

12377 JONGE, P. DE. The agricultural plowing demonstration in the Wilhelmnapolder. (In Dutch.) Plattelands-Post 6(44):9. Nov. 11, 1950. 12 P69

12378 KRUSE, F. H. Wird das pflügen überflüssig? Hannoversche Land- u. Forstwirt. Ztg. 103:865. Sept. 30, 1950. 18 H194

12379 KUKOLEV, N. I. Povyshenie pochvennogo plodorodija uglubleniem pakhotnogo sloja [Increasing soil fertility by deepening the arable layer]. Krasnodar, Kraevoe Knigoizdatel'stvo, 1950. 88 p. 53 K95

12380 MARTINS, A. J. Harrowing wheat soils and its effects. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:86-89. Apr./June 1950. 9.2 R325

12381 NORDENSKJÖLD, VON. Landeskultur. Hannoversche Land- u. Forstwirt. Ztg. 103:625-626. July 8, 1950. 18 H194

12382 OLSEN, R. Fall treatment of soil. (In Danish.) Dansk Landbr. 69:458-459. Sept. 7, 1950. 280.28 V91

12383 OSTERMILLER, J. V. Fall foundations for spring mechanization. Through Leaves 38(4):6-9. July/Aug. 1950. 66.8 T41

12384 RUBIN, S., and GORBATIUK, D. Depth and time for cultivating soils in orchards. (In Russian.) Sad i Ogorod 1950(8):37-41. Aug. 1950. 80 Sa13

12385 SMITS, C. This and that on fallowing. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 61:328-332. Aug. 1950. 12 N282

12386 SNOW, H. L. Rancho mulcho; a Californian finds that mulching works best on adobe soil. Org. Farmer 2(3):30-31, 61. Oct. 1950. 57.8 Or3

12387 WALKER, W. F. The cultivation of orchard soils. Tasmanian J. Agr. 21:224-226. Aug. 1950. 23 T182T

Also in Fruit World & Mkt. Grower 51(9):5. Sept. 11, 1950. 80 F948

#### Drainage, Irrigation, Water Supply, and Flood Control

12388 ANGERER. Beregnungsanlagen in der praxis. Hannoversche Land- u. Forstwirt. Ztg. 103:841-842. Sept. 23, 1950. 18 H194

12389 BOLLATI, O. Water requirements of corn and irrigation. (In Italian.) Campagna Milan. 1950(14):1-2. July 31, 1950. 16 C153

12390 BRENDLER, R. A. Irrigation water. Calavo News 1950:3. Oct. 31, 1950. 280.28 C12

12391 BRUNINK. Zur entwässerungsfrage. Land-wirtbl. Weser-Ems 97:860-861. Oct. 12, 1950. 18 L2345

12392 BRUNS, V. F. Submersed aquatic weed control in irrigation channels. West. Weed Control Conf. Proc. 12:55-58. 1950. 79.9 W52

12393 CAROLUS, R. L., and SCHLEUSENER, P. E. Q. Would irrigation of acreage east of the Rocky Mountains increase output economically? A. Heavy fertilized crops respond to more water. I. Food Packer 31(11):33. 57. Oct. 1950. 286.83 C165

12394 CERUTTI, V. Coordination of irrigation and hydroelectric utilities. (In Italian.) Campagna Milan. 1950(12):2-3. June 30, 1950. 16 C153

12395 CODE, W. E. How much water with a sprinkler? West. Farm Life 52(21):5. Nov. 1, 1950. 6 R153

12396 CRUMMETT, D. O. California: water in floriculture. South. Florist & Nurseryman 63(35):11-12, 102, 104-106. Nov. 24, 1950. 80 So86

12397 DONEEN, L. D. Analyses of irrigation water. Calif. Agr. [Calif. Sta.] 4(11):6, 14. Nov. 1950. 100 C12Cag

12398 ESTES, N. H. Soil conservation through drainage. Conserv. News 5(16):5. Nov. 9, 1950. 279.8 C768

Mississippi.

12399 FERGUSON, F. L. Solving drainage problems. Farmer's Mag. 47(11):10, 47-49. Nov. 1950. 7 C165

12400 FRANK, B., and NETBOY, A. Water, land, and people. New York, Knopf, 1950. 331 p. 292 F85

12401 FRIEDMANN, G. Gold and silver. (In Italian.) Glor. di Agr. 60:299. Sept. 24, 1950. 16 It1G  
Fertilizer application in irrigation water.

12402 FRIEDMANN, G. Why is overhead irrigation still so little used in Italy? (In Italian.) Agr. Ital. 1 555-557. Nov. 1, 1950. 16 Ag822  
English summary.

12403 GIZARDIN, P. L'irrigation des prairies en hiver. Terre d'Occ. 32:466. Oct. 1950. 14 Ar5

12404 GRINOVERO, C. Diagrams of water requirements in the irrigation districts of northern Italy. (In Italian.) Rlv. di Estimo Agr. e Genio Rur. 13:355-363. Aug. 1950. 281.8 R522

12405 GRINOVERO, C. Irrigation and hydraulic installations; concrete possibilities of coordination. (In Italian.) Ital. Agr. 87:538-542. Sept. 1950. 16 It1

12406 GUIAUCHAIN, P. Pour bien irriguer votre verger. Algeria. Insp. Gén. et Dir. de l'Agr. Doc. et Renseign. Agr. B. 162, 6 p. 1950. 24 AL34

12407 HAASJES, K. H. S. Filling ditches and trenches with subsoil. (In Dutch.) Netherlands. Landbouwrichtingsdienst. Maandbl. 7:359-364. Aug. 1950. 12 N383M  
12408 HARRISON, R. W. Flood control in the Yazoo Mississippi Delta. South. Econ. J. 17:148-158. Ref. Oct. 1950. 280.8 So84

12409 HENDRICKSON, A. H., and VEIHMEYER, F. J. Spread of apricot roots; unirrigated trees apparently obtained moisture from adjacent irrigated plot in experimental orchard at Winters. Blue Anchor 27(4):11. Nov. 1950. 286.83 B62

12410 HOISVEEN, M. W., and BRECHNER, D. L. Sand trap blues. Reclam. Era 36:217-218. Nov. 1950. 156.84 R24

Sand pump to remove silt from desilting chamber used to clean water before it enters the sprinkling system.

12411 HORST, J. A. TER. Drainage. (In Dutch.) Betuws Tuinbouwbl. 8(15):5-6. Oct. 7, 1950. 80 B464  
Of orchards.

12412 HUBBELL, D. S., and GARDNER, J. L. Effects of diverting sediment-laden runoff from arroyos to range and crop lands. U. S. D. A. Tech. B. 1012, 83 p. Ref. Aug. 1950. 1 Ag84Te

New Mexico Agricultural Experiment Station cooperating.

12413 HUSEMANN. Gründung, aufgaben und zusammensetzung der marschversuchsstation. Hannoversche Land- u. Forstwirt. Ztg. 103:711-712. Aug. 12, 1950. 18 H194

12414 HUSEMANN. Örtliche verbreitung, eigenart und landw. bewertung der marschböden. Hannoversche Land- u. Forstwirt. Ztg. 103:692. Aug. 5, 1950. 18 H194

12415 INGLIS, F. R. Artificial rain banishes drought. Family Herald & Wk. Star 81(40):6, 21. Oct. 5, 1950. 7 F21

Sprinkler irrigation system.

12416 IRRIGATION DISTRICTS ASSOCIATION OF CALIFORNIA. WATER ECONOMICS COMMITTEE. Analysis of proposed contract between United States and Orange Cove Irrigation District. Irrig. Dist. Assoc. Calif. Water Econ. Comt. Pam. 14, 30 p. 1950. 292.9 Ir7

12417 IRRIGATION DISTRICTS ASSOCIATION OF CALIFORNIA. WATER ECONOMICS COMMITTEE. Fundamentals of water policy. Irrig. Dist. Assoc. Calif. Water Econ. Comt. Pam. 18, 12 p. 1950. 292.9 Ir7  
Extension of remarks of L. Johnson in the House of Representatives, July 7, 1950.

12418 IRRIGATION DISTRICTS ASSOCIATION OF CALIFORNIA. WATER ECONOMICS COMMITTEE. Whose water? Irrig. Dist. Assoc. Calif. Water Econ. Comt. Pam. 16, 16 p. 1950. 292.9 Ir7

12419 JACKSON, N. Ranchers tame rampaging creek. Colo. Rancher & Farmer 4(21):5. Nov. 11, 1950. 6 C714

12420 JOHNS, D. F. That we may have freedom from floods. Irrig. Dist. Assoc. Calif. Water Econ. Comt. Pam. 15, 12 p. 1950. 292.9 Ir7



- 12421 JONGE, P. DE. Demonstration with drainage machines in South Holland. (In Dutch.) Groninger Landbbl. 28(43):7. Nov.4,1950. 12 G892  
Also in Gelders Landbbl. 13(43):7. Nov.4,1950. 12 G282
- 12422 KENDALL, R. G. Gault clay on the main drain; a 4in layer, well rammed, keeps them in first-class condition. Farmer & Stock-Breeder 64:2953. Nov.21,1950. 10 F228  
Tile drains and method and materials used in covering the pipes.
- 12423 KING, A. S. Irrigation in reverse; good drainage cuts farming costs and makes a deeper soil. Wash. Farmer 75:865,868-869. Dec.7,1950. 6 R151
- 12424 KLEMMME, A. A glimpse of Holland; reclaiming land from under the sea. Mo. Rur. 91(20):11. Oct.28,1950. 6 R8891
- 12425 KREUZ, R. A. Wasser und abwasser. Deut. Landwirt. Presse 73(20):7. Sept.23,1950. 18 D482  
Use for irrigation and fertilizer.
- 12426 LEACH, T. Save crops from drought. Family Herald & Wk. Star 81(47):7,14. Nov.23,1950. 7 F21  
Irrigation in British Columbia.
- 12427 LYON, A. V. Review of Research Advisory Committee [Merbel Research Station]. Austral. Dried Fruits News 25(10):12. July 1950. 286.83 Au72  
Reclamation and drainage.
- 12428 MACGILLIVRAY, J. H. Effect of irrigation on the yield and pungency of onions. Food Technol. 4:489-492. Ref. Dec.1950. 389.8 F7398
- 12429 MALISANI, O. Mountain reclamation in Carnia. (In Italian.) Cam. di Com. Indus. e Agr. del Friuli. B. Uffic. (n.s.)4(8):3-12. Aug.1950. 287 U45  
Includes flood control and reforestation.
- 12430 MANSON, P. W., and ROST, C. O. Farm drainage can increase the size of your farm. Minn. Farm & Home Sci. [Minn. Sta.] 8:12-13. Oct.1950. 100 M668
- 12431 MARTINEZ BULA, F. La técnica rural moderna. Res 18:25167-25172. (To be cont.) Sept.5, 1950. 286.85 R31  
Irrigation.
- 12432 MARTINO, V. DI. Daring example of hill reclamation in the Riviera del Garda. (In Italian.) Agr. Bresciana 3(44):2. Nov.1,1950. 16 Ag89
- 12433 MEEKS, T. O. Reconnaissance of ground-water conditions in the Uncompahgre Valley, Colorado. U. S. Soil Conserv. Serv. Region. B. 112,27 p. Sept.1950. 27 p. 1.9608 R26
- 12434 MORGAN, A. Irrigated pastures in Victoria. Victoria. Dept. Agr. J. 48:362-364. Aug.1950. 23 V66J
- 12435 O'BRIEN, H. R. Surface drainage can double yields; when tile failed to drain their flat land effectively, farmers on hardpan in Ashtabula County, Ohio, perfected an old drainage method with surprising results. Country Gent. 120(11):26-27,71-72. Nov.1950. 6 C833
- 12436 PAMPALONI, E. Irrigation of Campidano di Cagliari by the waters of the Flumendosa. (In Italian.) Agr. Ital. 1:509-514. Oct.15,1950. 16 Ag822  
English summary.
- 12437 PEREZ DE GRACIA, J. J. Acequias y canales. Agricultura [Madrid] 19:471-476. Oct.1950. 15 Ag84
- 12438 PERROT, H. Irrigation and fruit culture. (In Flemish.) Cult. en Handel 16:492-494. Aug.1950. 80 C892
- 12439 PHILLIP, A. G. Irrigation of orange groves. Punjab Fruit J. 14(47):13-15. Jan.1950. 80 P962
- 12440 PREOBRAZHENSKAYA, M. V. Stability of soil moisture reserves in subsoil irrigation. (In Russian.) Pochvovedenie 1950:561-567. Ref. Sept.1950. 57.8 P34
- 12441 RALA, N. Toward the agricultural reconstruction of the South; the program of reclamation and irrigation in the territories of Apulia and Lucania. (In Italian.) Agenzia Romana Note e Inform. Agr. 79:1-3. Nov.22, 1950. 281.8 Ag3
- 12442 RAWLINGS, W. Water conservation and irrigation in N.S.W. Milk Bd. J. 1:462-463. Sept.15,1950. 44.8 M5934
- 12443 RIDRUEJO RUIZ-ZORRILLA, L. Función del Estado en la transformación del secano en regadío. Ed. 2. Madrid,1949. 68 p. 55 R43
- 12444 ROWE, R. Making water behave. West. Farm Life 52(23):5. Dec.1,1950. 6 R153
- 12445 SPURLING, M. B. Irrigation efficiency; low-grade furrow irrigation. So. Austral. Dept. Agr. J. 54: 8-13. (Cont.) Aug.1950. 23 So84
- 12446 SYMON, J. A., and M'INTOSH, T. P. Some aspects of Dutch agriculture; land reclamation. Scot. Agr. 30:86-88. Autumn 1950. 10 Sco82So
- 12447 TATARINOVA, N. K. Mole drainage on meadows of excessively mineral soils in the non-black soil area. (In Russian.) SoSialist. Zhivotnovod. 12(6):15-19. June 1950. 49 So71
- 12448 THERON, J. J. South Africa is drying up. Farmer & Countryman 39(40):6-7. Oct.6,1950. 24 F227  
Water conservation.
- 12449 TONDER, A. J. VAN. The circular plaster reservoir. Farming So. Africa 25:283-287. Sept.1950. 24 So842
- 12450 TSIGIKAL, A. Peat bogs became valuable land. (In Russian.) Kolkhoz. Proizvodstvo 10(7):38. July 1950. 281.8 K83  
Reclamation on Progress Collective Farm in Sumy Region.
- 12451 VARONA, J. Instalaciones de riego. Ceres [Valladolid] 14(172):26-27,29-31. Oct.1,1950. 15 C33
- 12452 VITTUM, M. T. Tomatoes and beans under irrigation. Canad. Grower 73(11):4. Nov.20,1950. 80 C16
- 12453 WALKER, K. M. Irrigation on wheels. West. Dairy J. 7:13,22-23. Nov.1,1950. 44.8 W524
- 12454 WAUTHY, R. L'arrosage et l'irrigation appliqués à la betterave sucrière, en 1948 et 1949. Inst. Belge pour l'Amélior. de la Betterave, p. 18:145-153. July/Aug.1950. 66.9 In7  
English summary.
- 12455 WORK, R. A., and HOUSTON, C. E. Water report; west-wide forecasts of 1950-51 water supplies based on work of the western snow surveys. Reclam. Era 36:210-211,216,218. Nov.1950. 156.84 R24
- 12456 WRIGHT, C. T. Pollution of irrigation waters. Sewage & Indus. Wastes 22:1403-1412. Ref. Nov.1950. 293.8 Se8

#### Erosion and Erosion Control

- 12457 BAKKER, T. Erosion in England. (In Dutch.) Netherlands Landboorlichtingsdienst. Maandbl. 7:404-410. Sept.1950. 12 N383M
- 12458 BASOR, N. Sigulendo el contorno del suelo. Pampa Argentina 23(274):8,30. Sept.1950. 9 P19
- 12459 BASU, J. K., and SREENIWAS, L. Role of vegetation in soil conservation. I. General. Poona Agr. Col. Mag. 41:19-22. June 1950. 22 P79
- 12460 BECKING, B. La terre demande-t-elle nos soins? Rev. Agr. de la Nouvelle-Calédonie (n.s.)1(5/6): 3-4. May/June 1950. 25 R322
- 12461 BENNETT, H. H. How soil conservation has steadily advanced, and what lies ahead. Better Farms 10(5):9,12. Nov.1950. 6 B462
- 12462 BENNETT, H. H. Maintaining soil and water conservation progress. Washington, U. S. Soil Conserv. Serv., 1950. 10 p. 1.96 Ad62  
Address at meeting, West Virginia Soil Conservation Districts Boards of Supervisors, Jackson's Mill, Nov. 15, 1950.
- 12463 BENNETT, H. H. Stilling the dunes [Colorado]. Soil Conserv. 16:106-109. Dec.1950. 1.6 So3S
- 12464 BLANCO M., G. Hombres de la Laguna en el combate a favor del suelo. Agr. Lagunero 4(44):31-33. Sept./Oct.1950. 8 Ag824
- 12465 BRINK, B. W. 1,000 miles by bus to learn Montana's story. Soil Conserv. 16:114-116. Dec.1950. 1.6 So3S  
Soil conservation.
- 12466 BROMFIELD, L. Friends of the land. Columbus,1949? 8 p.-folder. 279.9 F91Fri
- 12467 BRONZOVA, G. I. A. Increasing the fertility of eroded soils. (In Russian.) Les i Step' 2(7):24-28. July 1950. 99.8 L565
- 12468 COUDERC, V. Action de la pluie sur un sol nu défoncé. Terre d'Oc 32:394-396. Sept.1950. 14 Ar5
- 12469 CRAWFORD, A. Contour furrows; conserving moisture on dry Canterbury hill country. New Zeal. Farmer 71(15):3. Sept.15,1950. 23 N464



- 12470 CROFTS, A. R., and ADAMS, J. A., JR. Land-slides and sedimentation in the North Fork of Ogden River, May 1949. U. S. Forest Serv. Intermountain Forest & Range Expt. Sta. Res. Paper 21,4 p. May 1950. 1,962 12R31
- 12471 DEPETRIS, V. R. Our most precious heritage, the soil. Home Acres 37(2):7,11. Sept.1950. 4 W84
- 12472 DICKINSON, H. R. Soil erosion in Tasmania. II. Tasmanian J. Agr. 21:191-201. Aug.1950. 23 T182T
- 12473 EAMES, H. F. The whole family learns about soil conservation. Agr. Leaders' Digest 31(10):20,22. Nov.1950. 275.28 Am3
- 12474 FEDERACIÓN NACIONAL DE CAFETEROS DE COLOMBIA. CAMPAÑA DE DEFENSA Y RESTAURACIÓN DE SUELOS. Defendamos nuestros suelos. Chinchiná, 1950. 40 p. 56.7 F314
- 12475 FEDERAL LAND BANK OF HOUSTON. Green pastures on black land. Houston, Tex., 1950? 16 p. 31.3 F31
- Soil conservation.
- 12476 FORD, D. F. Save your soil. Amer. Farm Youth 16(6):36-37. Nov.1950. 6 Am393
- 12477 FOX, SIR C. Land erosion. Endeavour 9:178-182. Oct.1950. 472 En2
- 12478 FOX, L. Working together gets the job done. Prog. Farmer, Tex. Ed. 65(11):22,136. Nov.1950. 6 T311
- Community cooperation in soil conservation, Brown County, Texas.
- 12479 FRENCH, R. J. Contour furrowing to protect grazing land. So. Austral. Dept. Agr. J. 54:3-7. Aug. 1950. 23 So84
- 12480 FUYA, I. Sabo kogaku genron. [Principle of the engineering for sand-defence]. Tokyo, Chikyu Shuppan, 1949. 186 p. 56.7 F98
- 12481 GROZOV, F. S. Continuous studying of soil conservationists. (In Russian.) Les i Step' 2(7):71-72. July 1950. 99.8 L565
- 12482 HASSENTEUFEL, W. Die grünverbauung von wildbächen. Allg. Forstztg. 61:177-180. Nov.1950. 99.8 AL53
- 12483 HENIN, S. L'érosion & son importance. France. Min. de l'Agr. B. Tech. d'Inform. 50:429-430. June 1950. 14 F844B
- France.
- 12484 HENIN, S., and GOBILLOT, T. L'érosion en France. France. Min. de l'Agr. B. Tech. d'Inform. 50:431-433. June 1950. 14 F844B
- 12485 HENIN, S. Le mécanisme de l'érosion par l'eau. France. Min. de l'Agr. B. Tech. d'Inform. 50:435-460. June 1950. 14 F844B
- 12486 HOCKENSMITH, R. D. Bases científicas para la conservación del suelo en las Américas. Hacienda 45 (12):29-31. Dec.1950. 6 H11
- 12487 HOPPER, E. G. The soil: our greatest treasure. A book about the land you live on. Salisbury, Nat. Resources Bd. South. Rhodesia, 1949. 32 p. 56.7 H774
- Soil conservation.
- 12488 HYLKEMA, B. Wisconsin teachers train in soil conservation. Agr. Educ. Mag. 23:113-114. Nov. 1950. 275.8 Ag8
- 12489 IRVINE, S. Reclaiming the European dust bowls. Family Herald & Wk. Star 81(44):7,9,17. Nov.2, 1950. 7 F21
- 12490 JACKS, G. V. The soil, source of nutrition. (In Portuguese.) Seleç. Agr. 5(53):35-38. Sept.1950. 9.2 Se4
- Conservation.
- 12491 KALLBRUNNER, H. Gehen wir einer ver-  
steppung entgegen? Pflug 3:154-156. Aug.1950. 19 P48 Austria.
- 12492 KISELEV, A. N. Relationship between water and wind erosion. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiríazeva. Dok. 11:63-65. 1949. 20 M857
- 12493 LADEWIG, J. E. Soil conservation in Queens-  
land. 5. Contour banks. Queensland Agr. J. 71:125-147 Sept.1950. 23 Q33
- 12494 LEHMAN, D. J. Conservation districts are seen vital. Farm & Gard. [Watertown, N. Y.] 1950:8. Nov.4,1950. 6 F234
- 12495 LESTER, J. Eastern Montana rolls out green carpet for 1950 conservation tour. Mont. Farmer-Stockman 37(22):8-9. July 15,1950. 6 M764
- 12496 LÓPEZ SAA, E. La erosión de los suelos. Scientia [Valparaíso] 17:73-76. June 1950. 475 Sci25
- 12497 LYSENKO, T. D. K novym uspekham v osushchestvlenii Stalinskogo plana preobrazovanifa prirody [Toward new successes in the realization of the Stalin Plan to change nature]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 21 p. 33.31 L99K
- 12498 MCCLYMONDS, A. E. Nebraska storm proves value of conservation work. Soil Conserv. 16:101-105. Dec.1950. 1.6 So3S
- 12499 MCNAIR, J. Human existence dependent on topsoil and its cultivation; tremendous soil loss annually from wind and water erosion; lands formerly rich and fertile have become barren waste. Marit. Farmer & Co-op. Dairyman 58(3):6. Nov.7,1950. 7 C77
- 12500 MOODY, E. G. The soil—are we users or abusers of the land? So. Austral. Dept. Agr. J. 54:36. Aug.1950. 23 So84
- 12501 MORETTI, A. Gully lands; new directions in their utilization. (In Italian.) Ital. Agr. 87:563-568. Sept.1950. 16 It1
- Poplar planting.
- 12502 PAINTER, D. T. Hillside farming without erosion. South. Planter 111(11):40-41. Nov.1950. 6 So89
- 12503 QUINTEROS, M., AROCENA, E. T., and VERCESI, D. R. La erosión de los suelos. Tambo y Chacra 24(781):4,7-8. Oct.26,1950. 44.8 T15 Uruguay.
- 12504 RIBEREAU, F. L'érosion et la conservation des terres. Colon. Franç. de Tunisie 60(2171):1. Nov.11, 1950. 24 C712
- 12505 ROARK, C. Better farming brings happier living. Soil Conserv. 16:99-100. Dec.1950. 1.6 So3S
- Conservation farming results on a farm in Georgia.
- 12506 RUSSELL, H. S. Wake up—it's time to act. New Eng. Homestead 123(17):7,10,43. Sept.9,1950. 6 N442
- Loam stripping in New England.
- 12507 SIEGFRIED, A. Conservation des sols et philosophie paysanne. Action Forest. et Piscicole 155: 1-2;156:1-2. July/Aug.-Sept.1950. 99.8 Ac8
- 12508 STALLINGS, J. H. Abstracts of recent published material on soil and water conservation. IV. U. S. D. A. PA-143,66 p. Nov.1950. 1 Ag84Pro
- 12509 STEINBACHER, G. Droht die steppe? Orion 5:681-685. Sept.1950. 474 Or4
- In Europe.
- 12510 STEINER, F. D. Constructing bench terraces. Org. Farmer 2(3):28-29. Oct.1950. 57.8 Or3
- 12511 STEWART, W. M. It's different now to bleak 30s. Sowest. Crop & Stock 4(11):9,66. Nov.1950. 6 So8942
- Conservation farming in the Texas Plains.
- 12512 SUNBURY, B. Ohio saves the soil. Nation's Agr. 25(11):13. Dec.1950. 280.82 B89
- 12513 TEMPANY, SIR H. The world problem of erosion; conservation legislation. World Crops 2:512-514. Ref. Dec.1950. 281.8 W892
- 12514 TERRACING. Org. Farmer 2(3):26-28. Oct. 1950. 57.8 Or3
- 12515 THOMAS, R. G. Pyrenees Soil Conservation Competition. Victoria. Dept. Agr. J. 48:337-349. Aug. 1950. 23 V66J
- 12516 THOMSON, L. B. Why didn't the dust blow in '50? Because we've learned a lot in 15 years. Farm & Ranch Rev. 46(10):8-9. Oct.1950. 7 F223
- 12517 TISDALE, C. R. Conservation in New York State. Farmer's Mag. 47(11):9,58-59. Nov.1950. 7 C165
- 12518 TROTTER, I. P. God gave us the soil. (Excerpts.) Town & Country Church 65:4. Nov.1950. 281.28 T66
- 12519 VOLKOV, I. A. Stalin Plan to change nature is transformed into life. (In Russian.) Les i Step' 2(7): 10-15. July 1950. 99.8 L565
- 12520 THE WORLD problem of erosion; two aspects of conservation. World Crops 2:469-473. Nov.1950. 281.8 W892
- Australia and Cyprus.
- 12521 WORTMAN, L. S. Back to pasture. Tex. Live-stock J. 9(11):9,57-58. Nov.1950. 49 T29
- Soil conservation in Oklahoma.



Sanitation

- 12522 ALLEN, M. W., and RASKI, D. J. The effect of soil type on the dispersion of soil fumigants. *Phytopathology* 40:1043-1053. Ref. Nov.1950. 464.8 P56
- 12523 CLAPHAM, P. A. On sterilizing land against poultry parasites. *J. Helminthol.* 24:137-144. 1950. 436.8 J82
- 12524 CLARK, F. E. Changes induced in soil by ethylene oxide sterilization. *Soil Sci.* 70:345-349. Nov. 1950. 56.8 So3
- 12525 PORTER, R. P. Soil sterilization by fumigation. *Pacific Coast Nurseryman* 9(11):17,35. Nov.1950. 80 P116
- 12526 POZDENA, L. Einige grundregeln für die erhaltung der bodengesundheit. *Pflug* 3:151-155. Aug. 1950. 19 P48
- Austria.

MATERIALS FOR SOIL IMPROVEMENT

- 12527 NAEZER, H. W. Tobacco ashes as potash fertilizer. (In Dutch.) *Bergcultures* 19:295-296. Aug. 1,1950. 22.5 B45

Primary Materials

- 12528 FLECK, A. Deposits of potassium salts in north-east Yorkshire. *Fert. Feed. Stuffs & Farm Supplies J.* 36:709-711,713-715. (Cont.) Nov.15,1950. 57.8 F413
- 12529 HILL, W. L. Phosphate fertilizers—their manufacture from phosphate rock without use of sulfuric acid. *Agr. Chem.* 5(12):55,86-86B. Ref. Dec.1950. 381 Ag8
- 12530 SCROGGS, C. L. Plant food pace setters. *News Farmer Coop.* 17(8):9,17-18. Nov.1950. 166.2 N47
- Modern fertilizer plant of the Minnesota Farm Bureau Service Co., St. Paul.
- 12531 THOMSON, J. Makers of fertilizer; here's why the plant foods you use can never be dirt cheap. *Prairie Farmer*, Gen. Ed. 122(21):8. Nov.4,1950. 6 P883
- 12532 WASHINGTON STATE COLLEGE. EXTENSION SERV. Know your fertilizers. Wash. State Col. Ext. C. 160,6 p.-folder. Oct.1950. 275.29 W27C

Secondary and Minor Element Materials

- 12533 BEAR, F. E. The minor element problem. *Better Crops Plant Food* 34(9):14-18,44-45. Nov.1950. 6 B46

Mixed Fertilizers and Fertilizer Technology

- 12534 CROWTHER, E. M. The analysis of phosphate fertilizers. *Chem. & Indus.* 1950:763-766. Dec.2,1950. 382 M31C
- 12535 KLÄRDING, J. Ein beitrage zur frage der erhöhung der zitronensäurelöslichkeit des thomasmehles. *Chem. Tech.* 2:278-285. Ref. Sept.1950. 384 C4283
- 12536 VLASŮK, P. A. Granulation—method for increasing effectiveness of fertilizers. (In Russian.) *Agrobiologičeskij* 1950(4):143-154. July/Aug.1950. 20 Ag822
- Experiments with field crops.
- 12537 WOLF, J. P. M. VAN DER. Advantages and disadvantages of mixed fertilizers. (In Dutch.) *Boer en Tuinder* 4(194):5. Oct.7,1950. 12 B632

Fertilizer Statistics

- 12538 ANGLO-AMERICAN COUNCIL ON PRODUCTIVITY. Superphosphate and compound fertilizers. London,1950. 66 p. (Prod. Team Rpt.) 57.2 An4
- 12539 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Chemical fertilizers. Austral. Bur. Census & Statis. Mfg. Indus. 5,9 p. May 5,1950. 271 Au72Ma
- 12540 CLAPP, G. R. The fertilizer industry and conservation. *Natl. Fert. Assoc. [Pam.]* 152:22-24. 1950? 57.9 N212P
- 12541 DEUTSCHE LANDWIRTSCHAFTS-GESELLSCHAFT, BERLIN. Die handelsdünger und ihre anwendung. Berlin,1949. 15 p. 57.2 D483

- 12542 FERTILIZER use yesterday, today, and tomorrow. *Natl. Fert. Assoc. [Pam.]* 152:30-41. 1950? 57.9 N212P

In the East, by F. E. Bear; In the Midwest, by E. Truog; In the South, by W. E. Colwell; In the West, by W. T. McGeorge.

- 12543 FLORIDA COMMISSIONER OF AGRICULTURE. FERTILIZER STATISTICAL DIV. Summary report of fertilizer materials consumed in Florida for fiscal year July 1, 1949, thru June 30, 1950. Tallahassee,1950. 2 p. 57.9 F66F

- 12544 GOTELLI, R. J. What does nitrogen cost? How to compare costs. *Diamond Walnut News* 32(6):10. Nov. 1950. 94.68 D34

- 12545 GREVE, L. R. Düngemittelverbrauch in Weser-Ems 1949/50. *Landwirtsbl. Weser-Ems* 97:948. Nov.9,1950. 18 L2345

- 12546 HOPKINS, D. P. Fertiliser productivity; Anglo-American differences. *Internatl. Chem. Engin.* 31:463-464. Oct.1950. 382 In8

- 12547 KIRCHER, W. H. From earth and air; sources of nation's fertilizers practically limitless, but storage facilities are not. *Farmer [St. Paul] Gen. Ed.* 68(21):9, 18. Nov.4,1950. 6 F2211

- 12548 LARTHE, R. Une curieuse manière de fixer le prix des engrais. *J. de la France Agr.* 6:1217. Nov.17/23,1950. 14 J829.

- 12549 MCCOLLAM, M. E. Fertilizers in Far Western agriculture. *Com. Fert.* 81(5):33-34,54-55. Nov.1950 57.8 C73

- 12550 NATIONAL FERTILIZER ASSOCIATION. A century of progress with fertilizers. *Natl. Fert. Assoc. [Pam.]* 152,41 p. 1950? 57.9 N212P

- 12551 NIKLAS. Steigerung des düngeraufwandes ist nötig! *Landbote* 4(37):1-2. Sept.16,1950. 18 L2336
- Germany.

- 12552 PALMER, E. £6,000,000 fertilizer bill for S. A. farmers. *Veldtrust* 11(7):2-5. July 1950. 56.8 V54

- 12553 SALTER, R. M. Fertilizers yesterday, today and tomorrow. *Natl. Fert. Assoc. [Pam.]* 152:4-12. 1950? 57.9 N212P

- 12554 STEINKRAUS, H. W. The fertilizer industry and the national economy. *Natl. Fert. Assoc. [Pam.]* 152: 13-14. 1950? 57.9 N212P

- 12555 VECHSLER, M. J. British requirements of potassium may be satisfied by new deposits. *Foreign Trade* 8:773. Nov.4,1950. 286.8 C162

- 12556 WORLD fertilizer consumption. N. F. U. *Inform. Serv.* 5:217-220. Nov.1950. 281.9 N213N
- Europe excluding the U. S. S. R.

Mineral Soil Amendments

- 12557 HALLSWORTH, E. G. Lime. *Westralian Farmers Co-op Gaz.* 19:185,187-188. Sept.1950. 280.28 W522

- 12558 SUESCUN GOMEZ, D. Calizas y mármoles del Departamento del Tolima. *Colombia. U. Nac. Facul. Nac. de Agron. Rev.* 11:140-150. June/Sept.1950. 9.4 C717

Manures and Composts

- 12559 BURMAN, N. P. Compost analysis. *Health & Soil* 1950:14-19. Summer/Autumn 1950. 56.8 H34

- 12560 GREVE. Die herstellung von mehrungsmist (kunstmist). *Landwirtsbl. Weser-Ems* 97:877-878. Oct.19,1950. 18 L2345

- 12561 JORDAN, W. T. The Peruvian guano gospel in the Old South. *Agr. Hist.* 24:211-221. Ref. Oct.1950. 30.98 Ag8

- 12562 JOUGAN, E. L'utilisation des déchets pour la préparation de composts fertilisants. *Acclimatation* 77: 221. Oct.14,1950. 14 Ac2

- 12563 LEHNER, A., and SPRINGER, U. Über den stoffabbau und humusaufbau bei der zersetzung von stroh unter dem einfluss verschiedener N-formen. *Z. f. Pflanzenbau u. Pflanzenschutz* 1:97-118. June 1950. 464.8 P88

- 12564 LLAVERIA B., M. El compost como abonamiento orgánico del terreno y método de fabricación. *Rev. Agropecuaria del Perú* 1(2):21-22. Apr./June 1950. 9.8 R322



- 12565 MENGARISHVILI, A. D. Torf Gruzii i torf-fanye udobreniia dlia subtropicheskikh kul'tur [Peat of Georgian SSR and peat fertilizers for subtropical crops]. Tbilisi, Gosizdat, 1949. 286 p. 57.1 M52
- 12566 MOHALYI, G. Let us save the liquid part of litter for crops. (In Portuguese.) Seleç. Agr. 5(53): 59-60. Sept. 1950. 9.2 Se4
- 12567 NORDGAARD, K. Manure and fall application. (In Danish.) Haven 50:138. Oct. 1950. 80 H29
- 12568 PAPANOS, S., and BROWN, B. A. Care and use of poultry manure. Rur. New-Yorker 100:754-755. Oct. 21, 1950. 6 R88
- 12569 RAJAN, S. V. G. Organic manures; their importance and sources of supply. Mysore Agr. Calendar 1949/50:23-24. 1949. 34.2 M99
- 12570 ROMANINI, A. A few words on urines and their use. (In Italian.) Avvenire Agr. 58:239-240. Oct. 1950. 16 Av9
- Fertilizers.
- 12571 SAINT-QUENTIN, M. Fabrication du fumier artificiel dans la confection des couches chaudes. Rustica 23:873. Oct. 15, 1950. 14 R92
- 12572 SCHULZ, W. G. Liquid manure—tonic for pastures. West. Dairy J. 7:9,51-53. Nov. 1, 1950. 44.8 W524
- 12573 SEIFERT, A. Der kompost in der bäuerlichen wirtschaft. München, Oldenbourg, 1950. 38 p. (Technika, Bücher der Praxis, v. 3) 57.4 Se4
- 12574 SPANN, J. Die verteilung des farnkrautes auf alpen, seine verwendung als streu. Allgäuer Bauernbl. 18:635-636. Oct. 26, 1950. 18 AL53
- In compost preparation.
- 12575 SPRINGER, U. Die verwendung des mülls in gartenbau und landwirtschaft. Z. f. Pflanzenbau u. Pflanzenschutz 1:133-140. June 1950. 46.4 P88
- 12576 TEWES, G. Verwertung von molkerelabwässern für die landwirtschaft. Süddeut. Molk.-Ztg. 71:1293-1296. Sept. 15, 1950. 44.8 Su2
- 12577 VAN CLUTE, J. Bonanza in garbage. Org. Farmer 2(4):28-31. Nov. 1950. 57.8 Or3
- For fertilizer.
- 12578 VILLEGAS, V. Manure of farm animals. Soil Sci. Soc. Philippines. J. 2:181-183. Third Q. 1950. 56.9 So35
- 12579 VLASŮK, P. A., and DOBROTVORSKAIA, K. M. Effectiveness of manures which were prepared by the aerobic and anaerobic methods. (In Russian.) Sovet. Agron. 8(8):7-17. Aug. 1950. 20 So84
- Experiments with field crops.
- 12580 VUUREN, J. P. J. VAN. Fertility from city dustbins and sewers. Veldtrust 11(7):12-13, 31. July 1950. 56.8 V54
- 12581 WELLS, J. S. Sawdust can be valuable. Nurseryman & Seedsman 111:1116-1118. Oct. 26, 1950. 80 N933
- For humus in soil.
- 12582 ZWEMMER, J. J. Use of manure on grass-land. (In Dutch.) Boer en Tuinder 4(188):6. Aug. 26, 1950. 12 B632

## FORESTRY

## GENERAL

- 12583 BAVENDAMM, W. Forst- und holzwirtschaftliche fragen auf dem VII. Internationalen Botanischen Kongress in Stockholm. Holz-Zentbl. 76:1139-1140. Sept. 2, 1950. 99.81 H742
- 12584 BLACK, R. Half century of endeavor. Forest & Outdoors 46(11):14-16. Nov. 1950. 99.8 C16
- Canadian Forestry Association.
- 12585 CONGRES INTERNATIONAL DE SYLVICULTURE, 3, HELSINKI, 1949. General report. Helsinki, 1949. 22 p. 99.9 C76912G
- 12586 DUENAS, S. E. Our forests are improtant. Agr. & Indus. Life 12(9):16. Sept. 1950. 25 Ag8
- Forest conservation in the Philippines.
- 12587 EVANS, C. F. A half century of progress. Amer. Forests 56(12):10-13, 33. Dec. 1950. 99.8 F762
- Society of American Foresters.
- 12588 FORESTRY AND TIMBER UTILIZATION CONFERENCE FOR ASIA AND THE PACIFIC, MYSOORE, 1949. CEYLON DELEGATION. Report. Colombo, Ceylon Govt. Press, 1949. 20 p. (Ceylon. Sessional Paper 13, 1949) 99.9 F76222

- 12589 HANDEL-MAZZETTI. Die forst- und holzwirtschaft in den vereinigten staaten. Österr. Forst- u. Holzwirt. 5:153-155. (To be cont.) May 21, 1950. 99.81 Os7

- 12590 MAHER, T. Avenir et conservation de nos forêts. Forêt et Conserv. 2:924-927, 929-931. Nov. 1950. 99.8 F792
- Quebec.

- 12591 MARTIN, D. M. Foresters, fair. Amer. Forests 56(12):14-15, 36-37, 42. Dec. 1950. 99.8 F762
- Women in forestry.

- 12592 NAKAMURA, K. Ikurin-gaku genron. [Principle of forestry]. Tokyo, Chikyu Shuppan, 1950. 407 p. 99.87 N14

- 12593 NILSSON-TANNER, P. The Forest Town at Jamtli in Östersund. (In Swedish.) Skogen [Stockholm] 37:220-221. Oct. 1, 1950. 99.8 Sk51

- 12594 PERSCH, F. Zur postglazialen wald- und moorentwicklung im Hohen Venn. Decheniana 104:81-93. Ref. 1950. 509 B64

- 12595 PLAISANCE, G. La chasse au hêtre dans le passé. Rev. Forest. Franç. 1950:458-461. Sept. 1950. 99.8 R329

- 12596 STRINDLUND, G. Endowment for future silviculture. (In Swedish.) Skogen [Stockholm] 37:205. Oct. 1, 1950. 99.8 Sk51

- 12597 VAN CAMP, J. L. What is the Canadian Forestry Association? Forest & Outdoors 46(11):10-12. Nov. 1950. 99.8 C16

- 12598 VUORJOKI, Y. The employment situation among foresters 1930-45. (In Finnish.) Metsätaloudelin Aikakauslehti 1950:258-267. Aug. 1950. 99.9 F49
- English summary.

- 12599 WIND, E. J. Forestry in the period 1850-1950. (In Dutch.) Chron. Nat. 106:276-284. June 1950. 514 B31

In Indonesia.

## Education

- 12600 ALVARADO PIER, G. Planta piloto para beneficio de maderas; novedad en la educación técnica de México. B. Forest. 2(23):19-22. Sept. 1950. 99.8 B633

- 12601 BLACK, R. Canada's approach to forestry education. Amer. Forests 56(11):9,35-36. Nov. 1950. 99.8 F762

- 12602 DELISLE, R. Education forestière et assistance technique aux petits propriétaires forestiers, dans la Province de Quebec. II. Forêt et Conserv. 2:889-890, 893-894, 897. Oct. 1950. 99.8 F792

- 12603 HVEDING, A. Instruction in forest accounting and forestry statistics. Skogbruken 25:217-219, 235-237. Sept. 1-15, 1950. 99.8 Sk54

- 12604 ROMERO R., I. Organo de publicidad en materia forestal. B. Forest. 2(24):14-16. Oct. 1950. 99.8 B633

- 12605 SCHAUB, J. Hoosier farm boys learn about forestry. Nation's Agr. 26:15. Jan. 1951. 280.82 B89

- 12606 SOLOV'EV, V. I. Problems and contents of the course in forest management. (In Russian.) Lesn. Khoz. 3(5):70-72. May 1950. 99.8 L562

## Policies, Programs, Administration

- 12607 AUSTRALIA.COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION. DIV. OF FOREST PRODUCTS. Programme of work for the year 1950-1951. South Melbourne, 1950. 66 p. 99.9 Au722

- 12608 BEDARD, A. Some facts relating to forests and forestry in Quebec. Pulp & Paper Mag. Canada 51(12):142-144, 147. Nov. 1950. 302.8 P96

- 12609 BELIAKOV, V. K. Plan was over-fulfilled. (In Russian.) Les i Step' 2(7):81-82. July 1950. 99.8 L565
- Shelterbelt planting by Kalininskaya Forest Conservation Station.

- 12610 BERGWITZ. Fortschrittliches beamtentum. Forstl. Mitt. 3:89. June 20, 1950. 99.8 F7725
- Germany.

- 12611 BLACK, R. Sweden's municipal forests. Amer. Swedish Mon. 44(12):12-13. Dec. 1950. 286.8 Sw3

- 12612 BOMBAY. FOREST DEPT. Annual report for 1946-47, v. 1. Bombay, 1949. 55 p. 99.9 In2Bo

- 12613 BONNIN, A. Rapport moral de la Nouvelle Union Corporative des Résineux sur la campagne 1949-50. Bois et Résineux 32(1536):2-3. Sept. 30, 1950. 99.82 B63



- 12614 **BOUROVOI, V. IA.** Forestry of the People's Republic of Albania. (In Russian.) Lesn. Khoz. 3(5):46-48. May 1950. 99.8 L562
- 12615 **BOUDY, P.** Économie forestière nord-africaine, v. 2, No. 1-2. Paris, 1950. 2 v. 99.7 B66
- 12616 **BURGER, H.** Forstliche grundlagenforschung und forstliche versuchsanstalten. Schweiz. Landwirt. Monatsh. 28:349-352. Oct. 20, 1950. 17 Sch93
- 12617 **COOK, L.** New forests for Ohio. Amer. Forests 56(11):6-8, 31, 34. Nov. 1950. 99.8 F762
- 12618 **DAVIS, L. H.** Twenty years of reforestation submarginal land. N. Y. Agr. Col. Farm Econ. 176:4550-4551. Sept. 1950. 280.8 C812
- 12619 **DAVYDOV, A. V.** Activity of Central Scientific Research Institute of Forestry during 1949. (In Russian.) Lesn. Khoz. 3(5):15-17. May 1950. 99.8 L562
- 12620 **DYSIS, A.** Marruecos: bajo la protección de España se cultiva el wattle. Inform. Com. Españ. (ser. 3) 204:1142-1143. Aug. 1950. 286.8 In3
- 12621 **EBERTS, H.** Einheitsforstamt und forstliche selbstverwaltung. Allg. Forstz. 5:357-363. Aug. 30, 1950. 99.8 AL52  
Germany.
- 12622 **EHWALD, E.** Die holzartenwahl bei grossen aufforstungsvorhaben. Deut. Landwirt. Gesell. Arb. (n.s.) 5:205-211. 1949. 18 D48
- 12623 **EVANS, C. F.** Federal-State cooperation in forestry work. Duke U. Sch. Forestry Lectures 9, 17 p. June 1950. 99.9 D888
- 12624 **EVEREST, D. C.** 75 years of forestry progress as industry sees it. Amer. Forests 56(11):18, 42-43. Nov. 1950. 99.8 F762
- 12625 **GORRIE, R. M.** Dry zone afforestation and agricultural development in Ceylon. Brit. Agr. B. 3:70-75. Summer 1950. 10 B776
- 12626 **GRAUBNER, B.** Freie oder gelenkte holzwirtschaft? Holz-Zentbl. 76:887-888. July 8, 1950. 99.81 H742
- 12627 **HAMBLETON, J.** Ontario guards forest wealth to ensure continuous yield. Canada Lumberman 70(11):28-29, 70. Nov. 1950. 99.81 C16
- 12628 **HENCH, M.** Assistance to private woodland owners. Pa. Forests & Waters 2:105, 117. Sept./Oct. 1950. 99.8 P38  
In Pennsylvania.
- 12629 **INDIA. DEPT. OF AGRICULTURE.** Proceedings of the 2d senior forest officers' conference, Nov. 1946. Simla, 1950. 144 p. 99.9 In28
- 12630 **JENSEN, E.** Principles of land management planning for California national forests. J. Forestry 48:435-438. Sept. 1950. 99.8 F768
- 12631 **KAYLOR, J. F.** State forestry during the past 75 years. Washington, U. S. Forest Serv., 1950. 5 p. 1.962 A2St272  
Address, 75th anniversary of the American Forestry Association, Oct. 9, 1950, Wisconsin.  
Similar title in Amer. Forests 56(11):19, 45. Nov. 1950. 99.8 F762
- 12632 **KIREEV, A. T.** Young transformers of nature. (In Russian.) Les i Step' 2(7):76-78. July 1950. 99.8 L565  
Shelterbelt planting by Communist youth in Chkalov Region.
- 12633 **KIRILLOV, I. T., and BITUTSKII, I. M.** Cadres and work management determine the success of an enterprise. (In Russian.) Les i Step' 2(7):43-47. July 1950. 99.8 L565  
Achievements of Kalachevskaya Forest Conservation Station.
- 12634 **KLAUDITZ, W.** Studienreise nach Schweden. Holz-Zentbl. 76:1031-1032. Aug. 8, 1950. 99.81 H742
- 12635 **LACERDA, D. T. DE.** The dual problem of devastation and reforestation of the Paraná forests. (In Portuguese.) Soc. Rur. Brasil. Rev. 30(357):32-38. Aug. 1950. 9.2 B733
- 12636 **LEIBUNDGUT, H.** Biologische u. wirtschaftliche gesichtspunkte im schweizerischen waldbau. Allg. Forstztg. 61:161-167, 180-183. (To be cont.) Oct.-Nov. 1950. 99.8 AL53
- 12637 **MCARDLE, R. E.** 75 years of forestry progress from the Federal viewpoint. Amer. Forests 56(11):18, 37, 39, 41. Nov. 1950. 99.8 F762
- 12638 **MACKAY, E.** Fundamentos y métodos de la ordenación de montes. Madrid, 1944-49. 2 v. 99.55 M19
- 12639 **MARINKOVIĆ, B.** Quelques avis et propositions sur la question d'amélioration des makis dévastés en Dalmatie. (In Croatian.) Sumarski List 74:259-267. June 1950. 99.8 Su6  
French summary.
- 12640 **MASHKOV, A. E.** Fastovets mechanizers on the leading plots in afforestation. (In Russian.) Les i Step' 2(7):83-86. July 1950. 99.8 L565  
Fulfillment of shelterbelt planting plan by Fastovetskaya Machine-Tractor Station.
- 12641 **MEL'NIKOVA, T. A.** A valuable beginning of the young Communists in Pronskii District [Riazan Region]. (In Russian.) Les i Step' 2(7):87. July 1950. 99.8 L565  
In shelterbelt planting.
- 12642 **PORETSKII, M. A.** State shelterbelts. (In Russian.) Lesn. Khoz. 3(4):28-32. Apr. 1950. 99.8 L562
- 12643 **REINECKE, H.** Jugend in der fachgruppe forstbeamte und angestellte in der gewerkschaft gartenbau, land- und forstwirtschaft. Forstl. Mitt. 3:100, 103. July 5, 1950. 99.8 F7725  
Germany.
- 12644 **ROBERTSON, W. M.** An economic survey of forestry in Kenya and recommendations regarding a Forest Commission. Empire Forestry Rev. 29:227-234. Sept. 1950. 99.8 Em72
- 12645 **ROSAY, J.** La forêt haut-savoyarde; bilan de 90 ans de gestion du Service Forestier. Rev. Forest. Franç. 1950:619-633. Nov. 1950. 99.8 R329
- 12646 **RUPPERT, J.** Bericht des Forstamtes Frankfurt a. M. Forstl. Mitt. 3:105-107, 113, 115, 121-122. July 20-Aug. 20, 1950. 99.8 F7725
- 12647 **SANDERS, P. M.** The Roaring River Tree Farm—an investment in the future. Wash. U. Forest Club Q. 23(3):3-7. Sept. 1950. 99.9 W275Q
- 12648 **SEPEROVICH, I.** State shelterbelt, Voronezh-Rostov. (In Russian.) Lesn. Khoz. 3(5):25. May 1950. 99.8 L562
- 12649 **SHACKLETON, P.** Canada's forest researchers say haphazard exploitation must go! Forest & Outdoors 46(11):18-19. Nov. 1950. 99.8 C16
- 12650 **SMOLENTSEV, G.** Route of youth. (In Russian.) Les i Step' 2(7):79-80. July 1950. 99.8 L565  
Planting of State shelterbelt, Kamyshin-Stalingrad route by young Communists.
- 12651 **STAHL, J.** Die regelung des forstbetriebsdienstes in den interessentenmaldungen. Forstl. Mitt. 3:97-99. July 5, 1950. 99.8 F7725  
Germany.
- 12652 **STOECKELER, J. H.** The work and findings of Northern Lakes Forest Research Center. Timber Prod. Assoc. B. 91:10-13. Oct. 1950. 99.9 T482B
- 12653 **TANGANYIKA FOREST DEPT.** The twenty-eighth annual report, 1948. Dar Es Salaam, 1950. 35 p. 99.8 T15
- 12654 **TINNEY, W. A.** Rapid regeneration in West. Pulp & Paper 24(12):80, 82. Nov. 1950. 302.8 P11
- 12655 **ULRICH-BIEBER, A.** Revierförster und EHT. Forstl. Mitt. 3:129-133. Sept. 5, 1950. 99.8 F7725  
Eidgenössische Technische Hochschule, Switzerland.
- 12656 **WITZGALL, J.** Der wald und die öffentlichkeit. Holz-Zentbl. 76:799. June 22, 1950. 99.81 H742

#### Legislation and Taxation

- 12657 **GT. BRIT. MINISTRY OF TOWN AND COUNTRY PLANNING.** Memorandum on the preservation of trees and woodlands (including model form of tree preservation order). London, H. M. Stationery Off., 1949. 27 p. 99.59 G792
- 12658 **SCHNEIDER, H.** Besteuerung ausserordentlicher waldnutzungen. Hannoversche Land- u. Forstwirt. Ztg. 103:802-803, 821. Sept. 9-16, 1950. 18 H194
- 12659 **STEPANOV, A. A.** In regard to the development of a plan for an All-Union law on forests. (In Russian.) Lesn. Khoz. 3(5):73-74. May 1950. 99.8 L562

#### Forest Description and Resources

- 12660 **AUSTIN, T.** The 7th Scandinavian Forest Congress. Excursion No. 20. Bregetved forest district. (In Norwegian.) Skogbrukeren 25:222-225. Sept. 1, 1950. 99.8 Sk54
- 12661 **BRAATHE, P., and FRYJORDET, T.** The 7th Scandinavian Forest Congress. Excursion No. 5. (In Norwegian.) Skogbrukeren 25:231-234. Sept. 15, 1950. 99.8 Sk54  
Danish forests.



12662 BROWN, R. T. Forests of the central Wisconsin sand plains. (Abs.) Ecol. Soc. Amer. B. 31:56. Sept.1950. 410.9 Ec7

12663 BUCHHOLZ, E. Die forst- und holzwirtschaft Albaniens. Holz-Zentbl. 76:1093. Aug.22,1950. 99.81 H742

12664 BUCHHOLZ, E. Die forst- und holzwirtschaft Bulgariens. Holz-Zentbl. 76:1008. Aug.3,1950. 99.81 H742

12665 BUCHHOLZ, E. Die forst- und holzwirtschaft Jugoslawiens. Holz-Zentbl. 76:1145. Sept.2,1950. 99.81 H742

12666 BUCHHOLZ, E. Die forst- und holzwirtschaft Ungarns. Holz-Zentbl. 76:1081. Aug.19,1950. 99.81 H742

12667 BUCHHOLZ, E. Statistische Übersicht der waldverhältnisse osteuropas mit ausnahme der Sowjetunion. Holz-Zentbl. 76:1050. Aug.12,1950. 99.81 H742

12668 DARBY, H. C. Domesday woodland. Econ. Hist. Rev. (ser.2):3:21-43. Ref. 1950. 277.8 Ec7

12669 EIDMANN, Ergebnisse der bestandesinventur 1948 im ver. wirtschaftsgebiet. Holz-Zentbl. 76:1226, 1228-1229. Sept.19,1950. 99.81 H742 Germany.

12670 ELLIOTT, C. Superior's prolific pines. Amer. Forests 56(12):6-8. Dec.1950. 99.8 F762 Georgia.

12671 ESPEJEL, L. Cual es y qué significa la riqueza forestal de Chiuhahua. B. Forest. 2(24):10-11, 24. (Concl.) Oct.1950. 99.8 B633

12672 FØNUS, K. Inferior conifer material. (In Norwegian.) (To be cont.) Skogbruken 25:205-206, 220-221. Aug.15-Sept.1,1950. 99.8 Sk54 Resources.

12673 FRANCEY, J. La forêt vaudoise hier et aujourd'hui. Forêt 3:226-332. (To be cont.) Sept.1950. 99.8 F7683

12674 GLØRSEN, F. The 7th Scandinavian Forest Congress. Excursions No. 7, 15 and 19. (In Norwegian.) Skogbruken 25:241-244. Oct.1,1950. 99.8 Sk54 Danish forests.

12675 HUGUET, L. La forêt en Guadeloupe; situation actuelle et avenir. Rev. Forest. Franç. 1950:645-658. Nov.1950. 99.8 R329

12676 JOLAIN, R. Le mouvement forestier à l'étranger. Une forêt expérimentale aux Etats-Unis: the Charles Lathrop Pack Demonstration Forest. Rev. Forest. Franç. 1950:472-478. Sept.1950. 99.8 R329

12677 LIMSTROM, G. A. Overburden analyses and strip-mine conditions in mideastern Ohio. U. S. Forest Serv. Cent. States Forest Expt. Sta. Tech. Paper 117, 33 p. Oct.1950. 1.9622 C3T222

12678 LUSSIER, O. Les forêts du Québec. Forêt et Conserv. 2:753-757. (Concl.) July/Aug.1950. 99.8 F792

12679 MCCORMACK, J. F. Forest statistics for Florida, 1949. U. S. Forest Serv. Southeast. Forest Expt. Sta. Forest Survey Release 36,73 p. Oct.1950. 1.9622 A3F76

12680 MAL'TSEV, M. P. Forest crops in Beshtau-zorski mountain forest. (In Russian.) Lesn. Khoz. 3(5):37-42. May 1950. 99.8 L562

12681 MARKOVIĆ, L. About the spreading of the our pine woods and their rational exploitations. (In Serbian.) Sumarski List 74:252-258. Ref. June 1950. 99.8 Su6

12682 MICHELSON, A. Considérations sur les études forestières entreprises par le Comité National du Kivu et sur deux bois d'ébenisterie Fagara aff. Melanorhachis, Hoyle, Mammea sp. Com. Natl. du Kivu. Études Forest. (n.s.)1,47 p. 1950. 99.9 C737

12683 PRINGLE, A. N. The Enugu Pitwood Plantations, Nigeria. Empire Forestry Rev. 29:238-243. Sept. 1950. 99.8 Em72

12684 RENKEN. Waldbauern besuchen die Lüneburger Heide. Landwirtbl. Weser-Ems 97:880. Oct.19, 1950. 18 L2345

12685 SCHREVEL, M., and JANSEN, W. L. Report on the spring excursion to the Belgian Kempen. (In Dutch.) Nederland. Bosbouw-Tijdschr. 22:234-244. Aug.1950. 99.8 N28 Belgian forests.

12686 SENCHUROV, K. T. Forests and lumber industry of Bulgaria. (In Russian.) Lesn. Promysh. 10(5):22-24. May 1950. 99.82 L56

12687 UGGEN, O. From Canada. (In Norwegian.) Skogbruken 25:248-249. Oct.1,1950. 99.8 Sk54 Canadian forests.

12688 U. S. DEPT. OF AGRICULTURE. LIBRARY. The forest resources and industries of the Caribbean area; general status of knowledge as shown by a brief survey of readily available literature, by F. J. Flick. Washington, 1950. 7 p. 1.916 F762

12689 U. S. FOREST SERV. Basic forest statistics for the United States as of January 1945. Washington, 1950. 14 p. 1.962 A2B29

#### Individual Genera and Species

12690 ANTHONY, R. D., and SHERMAN, L. W. Chestnuts [Castanea] again in our time. Pa. Farmer 143:281,310. Nov.11,1950. 6 P383

12691 BRODOVICH, T. M. Pseudotsuga taxifolia among the forest crops in Ukrainian SSR. (In Russian.) Lesn. Khoz. 3(5):43-45. May 1950. 99.8 L562

12692 GERRY, E. Limba (afara, fraké, korina). Terminalia superba Engl. et Diels, family: Combretaceae. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1773,7 p. 1950. 1.9 F761R

12693 JAEGER. Zum pappelanbau 1950/51. Hannoverische Land- u. Forstwirtschaft. Ztg. 103:820. Sept.16,1950. 18 H194

12694 LAMB, A. F. A. Pine forests of British Honduras. Empire Forestry Rev. 29:219-226. Sept.1950. 99.8 Em72

Chiefly Pinus caribaea.

12695 MOROZOV, I. R. Ivy SSSR, ikh ispol'zovanie i primeneniye v zashchitnom lesorazvedenii [Willows of U. S. S. R.; their utilization and adaptation in shelterbelt silviculture]. Moskva, Goslesbumizdat, 1950. 166 p. 99.47 M822

12696 MÜLDER, D. Buchenaushaltung, güteklassen und gebundene preise. Holz-Zentbl. 76:1107,1120-1121. Aug.26-29,1950. 99.81 H742 Germany.

12697 PEATTIE, D. C. Titan of trees. Country Gent. 120(11):32,161-164. Nov.1950. 6 C833 Sequoia sempervirens.

12698 RÄDER, J. Holzversorgung und pappelanbau. Holz-Zentbl. 76:1018. Aug.5,1950. 99.81 H742

12699 RILEGOR, A. M. Cultivo de la mimbrera. Pampa Argentina 23(274):3. Sept.1950. 9 P19

12700 SALDIAS, M. O. La grevillea, un arbol rústico indicado para montes de abrigo. Chacra 20(239):30,88. Oct.1950. 9 C34

#### FOREST MANAGEMENT AND FINANCE

12701 BADRE, L. Un aménagement plus que centenaire; ses enseignements forestiers et économiques. Rev. Forest. Franç. 1950:462-471. Sept.1950. 99.8 R329

12702 BECKING, J. H. Increasing the net income of oak stands. (In Dutch.) (Cont.) Nederland. Bosbouw-Tijdschr. 22:225-234. Ref. Aug.1950. 99.8 N28 English summary.

12703 BRETON, J. A. L'aménagement des boisés. Forêt et Conserv. 2:749-750. July/Aug.1950. 99.8 F792

12704 EHWALD, E. Forstliche standortskartierung. Deut. Landwirt. Gesell. Arb. (n.s.):5:28-54. 1949. 18 D48 Includes discussion.

12705 ENGELBRECHT. Holzschutz im hochbau. Deut. Landwirt. Gesell. Arb. (n.s.):5:323-328. 1949. 18 D48

12706 GOULAO, C. DE A. Appraisal of woodland susceptible of being explored in a small patch of the Malombe forest. (In Portuguese.) Agron. Angolana 3:95-101. 1950. 24 Ag83 English summary.

12707 HESS, E. Le rendement soutenu. Forêt 3:212-214. Aug.1950. 99.8 F7683

12708 JESSEN. Die selbstkosten in der forstwirtschaft. Deut. Landwirt. Gesell. Arb. (n.s.):5:295-315. 1949. 18 D48

12709 KELLER, I. W. Logging: forestry accounting. II. Wood [Chicago] 5(11):28,30. Nov.1950. 99.82 W859

12710 MONNET, G. Pour la sauvegarde et la mise en valeur de la forêt tropicale. Marchés Colon. 6:2585-2587. Nov.4,1950. 286.8 M33

12711 PEPLER, W. A. E. The economics of applied silviculture. Pulp & Paper Mag. Canada 51(11):127-128. Oct.1950. 302.8 P96



12712 PFALZGRAF. Grundgedanken zur forstwirtschaftlichen kalkulation. Deut. Landwirt. Gesell. Arb. (n.s.)5:290-294. 1949. 18 D48

12713 POPOVIĆ, V. The productivity of work in general and especially concerning the exploitation of forests. (In Serbian.) Sumarski List 74:277-288. July/Aug. 1950. 99.8 Su6

12714 RAUSCH. Aktuelle fragen der forstwirtschaft. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1349-1350. Sept.28,1950. 18 L2346

12715 SHIMADA, K. Ringvo boki oyobi shueki hyojon. [Discussion of profits and book-keeping for forestry]. Tokyo, Chikyu Shuppan, 1949. 247 p. 99.57 Sh6

12716 SHIMADA, K. Rinseigaku gaiyo. [Outline of the science of forest management]. Tokyo, Chikyu Shuppan, 1950. 326 p. 99.55 Sh62

12717 SIEBER, J. Arbeitszeit und stundenbarlöhne der forstarbeiter im winterhalbjahr 1949/50 in Bayern. Bayern in Zahlen 4:450-453. Sept.1950. 265 B34

12718 SIEBERT, L. Waldwirtschaft im mittelalterlichen Westfalen. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1428-1429. Oct.12,1950. 18 L2346

12719 STAMM, E. P. Forestry in the U. S. Pacific Northwest. Pulp & Paper Mag. Canada 51(11):143-144, 146,148,150. Oct.1950. 302.8 P96

12720 STOUT, E. So. E. Tex. has Nation's largest tree farm. East Tex. 24(11):8. Aug.1950. 6 Ea73

12721 TAKLE, G. G. Tour notes, Surguja Division. Indian Forester 76:377-382. Sept.1950. 99.8 In2

12722 TURC, L. L'aménagement des bois de sapin de Franche-Comté. Rev. Forest. Franç. 1950:445-457. Sept.1950. 99.8 R329

12723 U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Forestry handbook for the Upper Mississippi Region. Ed. 5. U. S. D. A. Agr. Handb. 13, 101 p. Ref. Sept.1950. 1 Ag84Ah

12724 WILCKENS, H. A. Brauchen wir in der forstwirtschaft eine geldbilanz? Holz-Zentbl. 76:1224. Sept. 19,1950. 99.81 H742

#### Farm Woodlands

12725 BOORD, K. R. Slack season income. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 65(11):136. Nov.1950. 6 P945K

Farm woodland practices.

12726 BORDEN, H. L. Management of farm woodlands. Ky. Farmer 86(10):4. Oct.1950. 6 F2237

12727 COPE, J. A. Fifteen years on fifteen acres; how a New Yorker makes a tiny woodlot pay off. Amer. Forests 56(11):23,30. Nov.1950. 99.8 F762

12728 DESCH, H. E. Woodland economics. Wood [London] 15:409-411. Nov.1950. 99.82 W855

12729 DROST, P. J. Breaking the wind. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 61:300-301. Oct. 1950. 12 N282

12730 FOURNIER, H. Reboisement sur la ferme. Forêt et Conserv. 2:791. July/Aug.1950. 99.8 F792

12731 LANDSTROM, K. S. Farm woodland utilization in the Douglas-fir region. Land Econ. 26:346-353. Nov.1950. 282.8 J82

12732 NELSON, R. P. Lumber, syrup, and a flowing spring. Hoard's Dairyman 95:863. Dec.10,1950. 44.8 H65

Management of a farm woodlot.

12733 O'CONNOR, A. J. There's money in farm forests; co-operative planning to establish plantations and erect sawmills on economic basis; plea for active support by the State. Farmer's Wk. [Bloemfontein] 80:10-11. Sept.27,1950. 24 F225

Reforestation by the small landowner and farmer, South Africa.

12734 PFISTER, R. Zur frage der ertragssteigerung im bauernwald. Württemb. Wchnbl. f. Landwirt. 117:885. Sept.23,1950. 18 W96

12735 QUIGLEY, K. L. Marketing farm woodland products in the Missouri Ozarks. U. S. Forest Serv. Cent. States Forest Expt. Sta. Tech. P. 116,41 p. Sept. 1950. 1.9622 C3T222

12736 VANE, W. M. F. Poplars and profit from waste corners. Country Landowner 1:181-182. Oct.1950. 10 C836

#### Mensuration

12737 AMERICAN LUMBERMAN. Handy lumber calculator. Chicago,1950? 64 p. 99.76 Am3H

12738 BOUDRU, M. Accroissement et délivrance dans la forêt jardinée. Ann. de Gembloux 56:169-179. Fourth Q.1950. 13 G28

12739 BRUCE, D., and SCHUMACHER, F. X. Forest mensuration. Ed. 3. New York, McGraw-Hill, 1950. 483 p. Ref. (Amer. Forestry Ser.) 99.4 B83

12740 CHAMBERLAIN, E. B., and MEYER, H. A. Bark volume in cordwood. Tappi 33:554-555. Nov.1950. 302.8 T162

12741 DEMENT'EV, N. N. Determination of volume of logs and trunks of growing trees. (In Russian.) Lesn. Khoz. 3(5):62-64. May 1950. 99.8 L562

12742 KEEN, E. A. The relascope. Empire Forestry Rev. 29:253-264. Sept.1950. 99.8 Em72

12743 NEFF, L. P. Classifying black spruce [Picea mariana] by tree vigor and dominance can aid the tree marker. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 344,2 p. Oct.1950. 1.9 F7625T

12744 THONET, H. M. Die universal-mess-platte zur waldstange. Österr. Forst- u. Holzwirt. 5:122-123. Apr.21,1950. 99.81 Os7

12745 ZIMMERLE, H. Durchmesserermittlung in 5 m höhe beim stehenden holz der rothuche. Holz-Zentbl. 76: 1162-1163,1179-1190,1182. Sept.7-9,1950. 99.81 H742

#### Aerial Surveying and Photography

12746 HYDE, R. S. Use of aerial photographs in forest management. Pa. Forests & Waters 2:106-107, 118. Sept./Oct.1950. 99.8 P38

#### Silviculture

12747 AREND, J. L., and MONROE, A. F. Growth in two oak [Quercus] woodlots following an improvement cut. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 342,1 p. Oct.1950. 1.9 F7625T

12748 BURDAEV, M. I. Silviculture on saline Chernozems. (In Russian.) Les i Step' 2(7):65-68. July 1950. 99.8 L565

12749 DIETERICH, H., LINDEMANN, F., and SCHLENKER, G. Vermehrung der graupappel. Allg. Forstz. 5:368-369. Aug.30,1950. 99.8 AL52 Germany.

12750 DUMOULIN, J. Dépressage d'un jeune peuplement d'érables. Forêt et Conserv. 2:901-902. Oct.1950. 99.8 F792

Also in Abeille et l'Érable (ser.2)19:118. Oct.1950. 424.8 Ab32

12751 ECHEVERRIA BALLARIN, I. El experimentador y la investigación forestal. Montes 34:489-498. July/Aug.1950. 99.8 M763 Spain.

12752 FERGUSON, J. H. A. Enkele gegevens betreffende de ontwikkeling van gelijkjarige Pinus merkusiopstanden. Some data about the development of even aged stands of Pinus merkusi. Netherlands Indies. Bosbouwproefsta. Rap. 34,20 p. June 1950. 99.9 Ea72R English summary.

12753 GERLINGS, J. H. J. The present foundation for the selection of forest trees. (In Dutch.) Nederland. Bosbouw-Tijdschr. 22:298-307,353-357. (Cont.) Oct.,Dec.1950. 99.8 N28

12754 GORSHECHNIKOV, V., and SOLOV'EV, N. On the introduction of oak into Siberia. (In Russian.) Les i Step' 2(7):88. July 1950. 99.8 L565

12755 GÜNTHER. Anbau der pappel. Deut. Landwirt. Gesell. Arb. (n.s.)5:222-237. 1949. 18 D48

12756 HEIKINHEIMO, O. Forestry research and tree breeding in Finland up to the present time. (In Finnish.) Metsätaloudellinen Aikakauslehti 1950:227-229. Aug.1950. 99.9 F49 English summary, p. 232.

12757 KADISHES, A. I. A. In regard to the development of stands. (In Russian.) Lesn. Khoz. 3(5):86. May 1950. 99.8 L562

12758 KOSTLER, J. Waldbau; grundriss und einföhrung als leitfaden zu vorlesungen über bestandesdiagnose und waldtherapie. Berlin, Parey, 1950. 418 p. 99.45 K842



- 12759 KRAPF, Syke - weg oder ziel? Allg. Forstz. 5:351-352. Aug. 16, 1950. 99.8 AL52
- 12760 MAKHATADZE, L. B. On birch [Betula] cultivation in Armenia. (In Russian.) Lesn. Khoz. 3(5):87-88. May 1950. 99.8 L562
- 12761 METREVELI, P. A. Natural reproduction and main cuttings in the mountain pine forests of eastern Georgia. (In Russian.) Lesn. Khoz. 3(5):58-61. May 1950. 99.8 L562
- 12762 MOLINA RODRIGUEZ, F. Sobre la mejora genética del Pinus pinaster Sol. Montes 34:499-510. Ref. July/Aug. 1950. 99.8 M763
- 12763 MÜLLER, R. Das pappel-markenetikett. Deut. Baumsch. 2:185-187. Aug. 1, 1950. 80 D486
- 12764 PILIPENKO, F. S. Development of species and forms in Eucalyptus. (In Russian.) Agrobiologiya 1950(4):45-59. July/Aug. 1950. 20 Ag822
- 12765 QUEIROZ, J. DE B. R. Experiments with pine tree cultivation in the Huila Plateau. (In Portuguese.) Agron. Angolana 3:111-119. 1950. 24 Ag83  
English summary.
- 12766 SALDANA, C. T. Algunas observaciones sobre el "Procedimiento para la determinación de las existencias normales en montes de clima templado y frío" del Ing. Vicente H. Cedillo. B. Forest. 2(23):5-6, 22. Sept. 1950. 99.8 B633
- 12767 SARVAS, R. Three years of tree breeding work in Finland. (In Finnish.) Metsätaloudellinen Aikakauslehti 1950:229-232. Aug. 1950. 99.9 F49  
English summary.
- 12768 SCHILLING, Wiederaufforstung und schutz der kahlfächen durch bodenflora und vorwaldbegründung. Deut. Landwirt. Gesell. Arb. (n.s.):155-182. 1949. 18 D48  
Includes discussion.
- 12769 SUPRUNENKO, N. D. To practice daily care of forest plantings. (In Russian.) Les i Step' 2(7):57-59. July 1950. 99.8 L565
- 12770 TORRICELLI DÍAZ, E., and MUÑOZ VENEGAS, D. Técnica defectuosa como causa de pérdidas en las plantaciones de pino insignie. Santiago de Chile, 1950. 15 l. 99.47 T63  
Also in Agrario 15(415):23-24, 26. (To be cont.) Aug. 1950. 9.3 Ag85
- 12771 WIBLE, R. C. Scrub oak needs fire to thrive. Pa. Forests & Waters 2:104, 118. Sept./Oct. 1950. 99.8 P38
- ### Silvicultural Practices
- 12772 GRACHEV, A. P. Regulations for principal cuttings in the utilized lowland forests of U.S.S.R. (In Russian.) Lesn. Khoz. 3(5):49-54. May 1950. 99.8 L562
- 12773 JAMES, N. D. G. Growing timber from seed; how felling can help to make a forest self-supporting. Field 196:865-866. Nov. 18, 1950. 10 F45
- 12774 KIENTZ, E. Gruppenwechselwirtschaft. Deut. Landwirt. Gesell. Arb. (n.s.):55-59. 1949. 18 D48  
Includes discussion.
- 12775 KORCHANOV, A. T. Use of machinery in the care of shelterbelts. (In Russian.) Les i Step' 2(7):48-53. July 1950. 99.8 L565
- 12776 KRYMSKOE OBLASTNOE UPRAVLENIE SEL'-SKOGO KHOZIAISTVA. Ukhod za lesnymi polosami [Care of shelterbelts]. Simferopol', Krymizdat, 1950. 48 p. 99.47 K94
- 12777 MÜLLER, H. Die erziehung der waldbestände. 1. Die säuberung der dickungen. Grüne 78:1206-1213. Nov. 3, 1950. 17 Sch9
- 12778 RYZHKOV, S. V. Silvicultural method of concentrated cutting. (In Russian.) Lesn. Khoz. 3(5):55-58. May 1950. 99.8 L562
- 12779 SCHUBERT, G. H. Control of sprouting of tanoak [Lithocarpus densiflora] and madrone [Arbutus menziesii] stumps. U. S. Forest Serv. Calif. Forest & Range Expt. Sta. Forest Res. Note. 74, 2 p. Sept. 15, 1950. 1.9 F7626R
- ### Seedling and Planting
- 12780 ANISIMOV, A. Seed collecting of tree and shrub species. (In Russian.) Kolkhoz. Proizvodstvo 10 (7):24-25. July 1950. 281.8 K83
- 12781 AUFHAMMER, W. Kiefern-naturverjüngung. Allg. Forstz. 5:405-406. Sept. 27, 1950. 99.8 AL52
- 12782 BITTERLICH, W. Versuche mit "pflocksaat." Allg. Forstztg. 61:167-168. Oct. 1950. 99.8 AL53  
For planting tree seeds.
- 12783 BOZRIKOV, V. V. Group sowing of tree belts in the steppes of Zavolz'ye. (In Russian.) Les i Step' 2 (7):60-64. July 1950. 99.8 L565
- 12784 DEITSCHMAN, G. H. Comparative survival and growth of trees planted under three types of overhead cover on strip-mined land in southern Illinois. U. S. Forest Serv. Cent. States Forest Expt. Sta. Note 63, 2 p. Oct. 1950. 1.9 F7625S
- 12785 DEITSCHMAN, G. H. Seedling survival and height growth on graded and ungraded strip-mined land in southern Illinois. U. S. Forest Serv. Cent. States Forest Expt. Sta. Note 62, 2 p. Oct. 1950. 1.9 F7625S
- 12786 DYLLIS, N. V. Seed collecting and cultivation of Larix. (In Russian.) Les i Step' 2(7):33-37. July 1950. 99.8 L565
- 12787 FUFAYEV, A. M. How to refit an ordinary horse-drawn sowing machine for oak seeding by the group method. (In Russian.) Les i Step' 2(7):89-91. July 1950. 99.8 L565
- 12788 GORDON, W. A. Regeneration at high altitudes in Cyprus. Empire Forestry Rev. 29:235-237. Sept. 1950. 99.8 Em72
- 12789 HAGMAN, M. Vegetative propagation of forest trees. (In Finnish.) Metsätaloudellinen Aikakauslehti 1950:240-244. Aug. 1950. 99.9 F49  
English summary.
- 12790 HOUP, R. R. State forest tree nurseries. Pa. Forests & Waters 2:108, 116. Sept./Oct. 1950. 99.8 P38
- 12791 JANSSEN. Warum schlechte anwachsprozente bei aufforstungen? Landwirtbl. Weser-Ems 97:815-816. Sept. 28, 1950. 18 L2345
- 12792 KOVALIN, D. T., and VOEVODA, D. K. Mekhanizatsiya rabot v usloviyakh stepnogo lesorazvedeniya [Mechanization of work under conditions of steppe silviculture]. Moskva, Goslesbumizdat, 1949. 144 p. 58 K847
- 12793 LANGNER, W. Aufgabe und methoden der forstpflanzenzüchtung und ihre beziehungen zur baumschulpraxis. Deut. Baumsch. 2:187-190. Aug. 1, 1950. 80 D486
- 12794 LINDSAY, R. C., and BAISINGER, D. H. Tree seed extraction on the Columbia Tree Farm of Crown Zellerbach Corporation. Wash. U. Forest Club Q. 23(3): 13-18. Sept. 1950. 99.9 W275Q
- 12795 LISIN, S. S. Timely preparation and sowing of tree and shrub seeds with difficult germination. (In Russian.) Les i Step' 2(7):29-32. July 1950. 99.8 L565
- 12796 MANDEL. Gewinnung des forstlichen saates. Deut. Landwirt. Gesell. Arb. (n.s.):5:212-221. 1949. 18 D48
- 12797 MASSY, C. Récoltons et semons nos graines. Forêt 3:203-204. Aug. 1950. 99.8 F7683
- 12798 MOISES, J. Praktische erfahrungen mit saatschutzgittern im forstgarten. Österr. Forst- u. Holzwirt. 5:89-90. Mar. 21, 1950. 99.8 Os7
- 12799 NOVIKOV, A. I. Utilization of SL-4 sowing machines with Glukhovskii's attachment. (In Russian.) Les i Step' 2(7):54-56. July 1950. 99.8 L565  
In sowing Quercus.
- 12800 OGLAEND, I. Forest planting. Planting distance. (In Norwegian.) Skogbrukeren 25:252. Oct. 1, 1950. 99.8 Sk54  
Cost of planting.
- 12801 RUDOLF, P. O. Certifying forest seeds. U. S. Forest Serv. Lake States Forest Expt. Sta. Misc. Rpt. 14, 6 p. Ref. Sept. 1950. 1.9622 L2M68
- 12802 SOLJANKI, I. Gathering and sowing of forest seeds. (In Croatian.) Sumarski List 74:313-320. July/Aug. 1950. 99.8 Su6
- 12803 SOSNIN, L. I. Germination of beech nuts on the snow in the subalpine belt of the Caucasus. (In Russian.) Priroda 39(6):79. June 1950. 410 P933
- 12804 STOECKELER, J. H. How long can conifers be held in spring by cold storage? U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 343, 1 p. Oct. 1950. 1.9 F7625T
- 12805 THIELECKE. Die beschaffung von standortsgerechten samen und pflanzen. Deut. Landwirt. Gesell. Arb. (n.s.):5:19-27. 1949. 18 D48



12806 TROS'KO, I. K. Regeneration in the Juniperus forests. (In Russian.) Lesn. Khoz. 3(5):84-85. May 1950. 99.8 L562

12807 TROUSDELL, K. B. Seed and seedbed requirements to regenerate loblolly pine [Pinus taeda]. U. S. Forest Serv. Southeast. Forest Expt. Sta. Paper 8, 13 p. Nov. 1950. 1.9622 S4St2

12808 VILLEGAS DE LA VEGA, R. Repoblaciones con especies forestales de crecimiento rápido en la zona baja de la Provincia de Santander. Montes 34:477-484. July/Aug. 1950. 99.8 M763

#### Forest Protection and Damage

12809 ANT'SYSHKIN, S. P. On the protection of shelterbelt plantings. (In Russian.) Les i Step' 2(7):92-93. July 1950. 99.8 L565

12810 CHIDO, G. I've seen forest protection grow. Wis. Conserv. B. 15(11):26-28. Nov. 1950. 279.8 W752

12811 HAMM, P. J. Forestry progress in Alabama. Ala. Conserv. 22(4/5):3,26-27. Oct./Nov. 1950. 279.8 AL1

#### Protection.

12812 KIMMEY, J. W. Cull factors for forest-tree species in northwestern California. U. S. Forest Serv. Calif. Forest & Range Expt. Sta. Forest Survey Release 7, 30 p. June 1, 1950. 1.9 F7626F

12813 LUNDBERG, G. Forest injuries by elk and their prevention. I-II. Skogen [Stockholm] 37:185-187, 198, 212-213. Sept. 1-Oct. 1, 1950. 99.8 Sk51.

12814 PUTNAM, J. A., and MCKNIGHT, J. S. Bottomland hardwoods make quick come-back. Delta Council News 11(11):3. Nov. 1950. 280.8 D38

#### Protection.

12815 SULZLÉE, C. Historique des méthodes de construction des ouvrages de protection contre les avalanches. Rev. Forest. Franç. 1950:634-644. Nov. 1950. 99.8 R329

#### Fire

12816 ALLOUARD, P. La lutte contre les incendies de forêts dans les pays tropicaux; examen de l'expérience acquise au Cambodge. Rev. Internat. des Prod. Colon. 25:177-180. (Cont.) Oct. 1950. 286.8 R326

12817 BERGESTAD, F. V. Forest fire—one of the largest lumber consumers in Canada. (In Norwegian.) Skogbrukeren 25:229-230. Sept. 15, 1950. 99.8 Sk54

12818 BÖHNER, P. Lastkraftwagen als waldbrandstifter; eine dringende mahnung an alle fahrzeughalter. Holz-Zentbl. 76:975-976. July 27, 1950. 99.81 H742

12819 DUGELAY, A. Réflexions morales sur les incendies de forêts. Rev. Forest. Franç. 1950:489-496. Sept. 1950. 99.8 R329

12820 JAEGER, W. Wie kann man waldbränden vorbeugen? Hannoversche Land- u. Forstwirtschaft. Ztg. 103: 657, 674-675. (Concl.) July 22-29, 1950. 18 H194

12821 SIMSKIY, A. M. Repairing the fire-protection strips with chemical substances. (In Russian.) Lesn. Khoz. 3(5):69. May 1950. 99.8 L562

Spraying denuded ground with fire-fighting chemicals.

12822 SYLVAIN, R. Pour la défense des forêts des landes de Gascogne. Bois et Sciéries 56:819. Sept. 7, 1950. 99.81 B632

Control of forest fires.

#### Forest Influences

12823 BIALYI, A. M. Soil conditions under tree belts. (In Russian.) Agrobiologiya 1950(4):133-137. July/Aug. 1950. 20 Ag822

#### Forest influences.

12824 BRODBECK, C. Warum pflanzen wir bäume und sträucher an die ufer unserer gewässer? Schweiz. Bienen Ztg. 73:470-472. Oct. 1950. 424.8 Sch9

12825 CÔTE, R. R. Puis-je réparer cette erreur? Forêt et Conserv. 2:937-938. Nov. 1950. 99.8 F792

Lack of windbreak for sugar maples.

12826 DAY, W. R. Forest hygiene. I. The conception of health and the character of the forest in relation to health. Empire Forestry Rev. 29:204-210. Ref. Sept. 1950. 99.8 Em72

12827 DORN, H. Gesteigerte wassererhaltungsarbeiten. Forstl. Mitt. 3:90-91. June 20, 1950. 99.8 F7725

12828 JOVKOVIĆ, B. The first results of the building of the shelter belts in Macedonia. (In Serbian.) Sumarski List 74:221-234. June 1950. 99.8 Su6

12829 KARELIN, T. I. Protective role of coastal willow belts in the control of sand deposits. (In Russian.) Lesn. Khoz. 3(5):82-83. May 1950. 99.8 L562

12830 KIRWALD, E. Forstlicher wasserhaushalt und forstschutz gegen wasserschäden (einschliesslich wildbachverbauung). Stuttgart, Ulmer, 1950. 160 p. 99.36 K63F

12831 VAN CLUTE, J. Trees and agriculture. Org. Farmer 2(3):16-19, 64. Oct. 1950. 57.8 Or3

12832 VOROB'EV, S. A., KONDRAT'EV, P. S., and KULAKOV, E. V. Result of planting field-protecting tree belts in the turf-podzolic zone. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 11:66-70. Sept. 1949. 20 M857

#### Miscellaneous Forest Uses

12833 KOKE, O. Kann man jäger sein und forstmann zugleich? Pirsch 2:648-649. Sept. 1, 1950. 410 P66

12834 MANSFELD, K. Probleme des vogelschutzes im wirtschaftswald. Deut. Landwirt. Gesell. Arb. (n.s.):5: 253-258. 1949. 18 D48

#### FOREST INDUSTRIES

12835 ANDERSON, I. V. Forest products industries of Montana. Mont. State U. Bur. Business & Econ. Res. Mont. Business 2(9):1-4. Sept. 1950. 280.9 M762

12836 CLADY, L. M. New developments in northern hardwood flooring industry. Com. B. 92(4893):10-11. Dec. 2, 1950. 286.8 C736

12837 DOSOUDIL, A. Zur förderung der rationalen holzverwertung. Holz-Zentbl. 76:1225. Sept. 19, 1950. 99.81 H742

Schweizerischer Kongress zur Förderung der Rationalen Holzverwertung.

12838 FRIEDRICH, R. Gute bräuche — schlechte sitten. Holz-Zentbl. 76:1031. Aug. 8, 1950. 99.81 H742

Lumber industry, Germany.

12839 HESS, R. W., and RECORD, M. E. Foreign wood imports. Yale U. School Forestry. Trop. Woods 96: 21-36. Sept. 1, 1950. 99.08 Y1Tr

12840 LIPKA, W. Güte- und kennzeichnungsbestimmungen in der holzindustrie. Holz 4:156-158. Aug. 1950. 99.82 H743

Germany.

12841 POLETIKA, N. V. The importance of statistical analysis in quality control of wood products. Wood Prod. 55(11):20, 22, 24. Nov. 1950. 99.82 W856

12842 REECE, P. O. Britain needs more timber. Brit. Columbia Lumberman 34(11):80-82. Nov. 1950. 99.81 B77

12843 SCHMID, E. Ein wichtiges werbemittel der holzwirtschaft; was jeder von der anzeigenerwerbung wissen soll. Holz-Zentbl. 76:1052, 1080. Aug. 12, 19, 1950. 99.81 H742

12844 TAMESIS, F. The role of the Philippine lumber industry in the economic life and foreign trade of the Philippines. Wash. U. Forest Club Q. 23(3):8-12. Sept. 1950. 99.9 W275Q

12845 TRÜSTEDT, H. Die herkunftsländer der westdeutschen holzeinfuhr. Holz-Zentbl. 76:937, 940. July 20, 1950. 99.81 H742

12846 WEGELT, W. Das krankheitsbild der sägeindustrie; nur ein gesundes verhältnis zwischen rundholz- und schnittholzpreis kann helfen. Holz-Zentbl. 76:1049-1050, 1207-1208. Aug. 12, Sept. 16, 1950. 99.81 H742

#### Lumbering

12847 BRODERICK, R. E. Adequate stumpage a major problem for northeast lumbermen. Com. B. 92(4893):1, 7. Dec. 2, 1950. 286.8 C736

12848 ENGBERG, G. B. Collective bargaining in the lumber industry of the upper Great Lakes States. Agr. Hist. 24:205-211. Ref. Oct. 1950. 30.98 Ag8

12849 HOENE, J. V. Progressive and diversified Minnesota operation. Lumberman 77(12):58, 60, 106. Dec. 1950. 99.81 W52



- 12850 LIDL, O. Schluss mit der bewirtschaftung von rundholz! Allg. Forstz. 5:409-411. Sept.27,1950. 99.8 AL52
- 12851 SEDLMAYR, E. Rundholzmanipulationen in den Karpathen. Holz-Zentbl. 76:1042. Aug.10,1950. 99.81 H742
- 12852 SKURDAL, P. Contests in forestry. (In Norwegian.) Skogbrukeren 25:213-214. Aug.15,1950. 99.8 Sk54
- Chiefly on rules for marking forest trees.

#### Lumbering Equipment

- 12853 DOLGOPOLOV, N. P., and PETROV, P. E. Tractor hauling of whole [felled] trees with tops. (In Russian.) Lesn. Promysh. 10(5):13-14. May 1950. 99.82 L56
- 12854 FORBES, R. H. Hydraulic jacks cut tree wedging time. Wood [Chicago] 5(11):14. Nov.1950. 99.82 W859
- 12855 FRERICH. Einmannarbeit im fällungsbetrieb. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1279-1280. Sept.14,1950. 18 L2346
- 12856 KIRKPATRICK, R. E. Power calculations for chain and cable pulpwood conveyors. Pulp & Paper Mag. Canada 51(11):130,133-135,137. Oct.1950. 302.8 P96
- 12857 KOOLS, J. F. Maintenance of triangular teeth cross-cut-saws. (In Dutch.) Nederland. Bosbouw-Tijdschr. 22:289-297. Oct.1950. 99.8 N28
- English summary.
- 12858 KREKNIN, V. V., and LUK'ANCHIKOV, S. N. Electric winches in hauling whole [felled] trees with tops. (In Russian.) Lesn. Promysh. 10(5):11-13. May 1950. 99.82 L56
- 12859 MCKUSICK, H. A. Portable woodchippers. Conn. Woodlands 15:44-45. Sept.1950. 99.8 C76
- 12860 MCLAREN, C. G., and BURG, M. P. Portable chippers in woods operation. Pulp & Paper Mag. Canada 51(11):140,143. Oct.1950. 302.8 P96
- 12861 MIKHAYLOVA, G. M. Automatic brakes for the narrow-gauge log transporting railroads. (In Russian.) Lesn. Promysh. 10(5):9-11. May 1950. 99.82 L56
- 12862 MILLER, M. S., and RESHETOV, A. V. Re-equipment of flatcars for transporting whole [felled] trees. (In Russian.) Lesn. Promysh. 10(5):15-16. May 1950. 99.82 L56
- 12863 NEUMON, N. I. Log hauling with duplex winches. (In Russian.) Lesn. Promysh. 10(5):7-9. May 1950. 99.82 L56
- 12864 PATSIORA, P. P. Power consumption by the electrified equipment at the logging enterprises. (In Russian.) Lesn. Promysh. 10(5):4-7. May 1950. 99.82 L56
- 12865 PLOW, R. Equipment needs of loggers. Wood [Chicago] 5(12):19,39. Dec.1950. 99.82 W859
- 12866 SACKEL, and NIGGL. Das feilen, ein grundelement forstlicher arbeitstechnik. Forstl. Mitt. 3:101-102. July 5,1950. 99.8 F7725

#### Logging

- 12867 COOK, D. For logging in New York: horse or tractor? N. Y. State Conserv. 5(2):24-25. Oct./Nov. 1950. 279.8 N48
- 12868 ELSÄSSER, A. Der faktor "zeit" bei der holzbringung. Österr. Forst- u. Holzwirt. 5:149-153. May 21,1950. 99.81 Os7
- 12869 JACOB, G. R. Forest waste and its conversion by circular gang-saw mill. Empire Forestry Rev. 29:211-218. Sept.1950. 99.8 Em72
- 12870 LAMOTHE, G. E. Mécanisation forestière. Forêt et Conserv. 2:950-955,957,959-960. (To be cont.) Nov.1950. 99.8 F792
- 12871 MICKAELSSON, G. Logging in Argentinian virgin forests. (In Swedish.) Skogen [Stockholm] 37:196. Sept.1,1950. 99.8 Sk51
- 12872 SAMSET, I. Hogstundersøkelsen i norsk Færøskog. Cutting studies in Norwegian spruce forest. Norske Skogforsøksv. Meddel. 10:399-593. Ref. 1950. 99.9 N833
- English summary.
- 12873 STARČEVIĆ, J. Rationalization of the internal transport. (In Croatian.) Sumarski List 74:242-251. June 1950. 99.8 Su6

#### Sawmills

- 12874 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Sawmilling. Austral. Bur. Census & Statis. Mfg. Indus. 28,8 p. Aug.8,1950. 271 Au72Ma
- 12875 BAUMANN, W. Rückschlagursachen an holz-kreissägen. Holz-Zentbl. 76:1007-1008. Aug.3,1950. 99.81 H742
- 12876 BEYER, F. Genehmigungspflicht für die neuerrichtung von sägewerken? Holz-Zentbl. 76:1099. Aug.24,1950. 99.81 H742
- Germany.
- 12877 EMMERICH, H. Die walzen des vollgatters als ursache des krummschnitts. Holz-Zentbl. 76:1208-1209. Sept.16,1950. 99.81 H742
- 12878 HAFNER, R. Turbinen im sägewerk: der einfluss der turbinenwirkungsgrade auf die wirtschaftlichkeit von wasserkraftanlagen. Holz-Zentbl. 76:911-912. July 15,1950. 99.81 H742
- 12879 HASSELT, W. Akkorn und bearbeitungskosten am vollgatter. Holz-Zentbl. 76:1127. Aug.31,1950. 99.81 H742
- 12880 HONICKE, K. D. Der tod steht auch dabei! Holz-Zentbl. 76:1079. Aug.19,1950. 99.81 H742
- Sawmills.
- 12881 KRAMER, O. Richtige sägewerksplanung. Österr. Forst- u. Holzwirt. 5:119-122,135-138. Apr.21-May 7,1950. 99.81 Os7
- 12882 KRIEGER, H. Die kreissäge und ihre rück-schlagsicherheit. Holz-Zentbl. 76:797-798. June 22,1950. 99.81 H742
- 12883 LEHMANN, C. A. Die finanzielle entwicklung im sägewerk in den ersten beiden DM-jahren. Holz-Zentbl. 76:881. July 8,1950. 99.81 H742
- 12884 LIEBIG. Leistungsmaassstab in der sägeindustrie. Deut. Landwirt. Gesell. Arb. (n.s.):5:329-336. 1949. 18 D48
- 12885 LIPKA, W. Rechenschieber zur ermittlung des überhanges für vollgattersägen. Holz 4:199. Oct. 1950. 99.82 H743
- 12886 MALCOLM, F. B. Custom planing facilities for farm lumber. South. Lumberman 181(2271):52,54-56. Nov.15,1950. 99.81 So82
- 12887 PANKOV, G. Circular sawing of lumber. (In Russian.) Sel'sk. Stroitel' 5(4):10. July/Aug.1950. 296.28 Se4
- 12888 RAZOUS, P. Les rendements quantitatifs et qualitatifs en sciages. Bois et Scieries 56:889-890. (Cont.) Sept.28,1950. 99.81 B632
- 12889 SASSMANNSSCHAUSEN, F. Die kreissäge der zukunft. Holz-Zentbl. 76:919. July 15,1950. 99.81 H742
- 12890 SHIBALOV, V. I., and MILOV, S. G. Mechanized rolling of logs in lumber mills. (In Russian.) Lesn. Promysh. 10(5):20-22. May 1950. 99.82 L56
- 12891 VENTZ. Gatterbau im Stadt-Forstamt Baden-Baden. Allg. Forstz. 5:333-334. Aug.2,1950. 99.8 AL52
- 12892 WATT, W. E. State sawmilling in South Africa. Empire Forestry Rev. 29:265. Sept.1950. 99.8 Em72

#### Processing and Woodworking

- 12893 BEL'SKIY, I. R. Use of increased frequencies for the high-speed wood-working machines. (In Russian.) Lesn. Promysh. 10(5):18-20. May 1950. 99.82 L56
- 12894 BESLER, A. Das dämpfen von rotbuche. Österr. Forst- u. Holzwirt. 5:69-70. Mar.7,1950. 99.81 Os7
- 12895 HEINRICH, K. Das biegen von sperrholz über beheizte formen. Holz 4:197-198. Oct.1950. 99.82 H743
- 12896 HERTNER, W. Le joint à sifflets multiples. Forêt 3:208-211. Aug.1950. 99.8 F7683
- Laminated wood.
- 12897 HYLER, J. E. Some salient features of vertical gang boring machines. I. Wood Prod. 55(9):16-18. Sept.1950. 99.82 W856
- 12898 HYLER, J. E. Woodworking knife and cutter application. IX. South. Lumberman 181(2271):64,66,68, 70. Nov.15,1950. 99.81 So82
- 12899 KORHAMMER. Berechnung des versatzes. Holz 4:200-202. Oct.1950. 99.82 H743
- 12900 PECK, E. C. Bending solid wood to form. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1764,29 p. Aug.1950. 1.9 F761R



- 12901 PERRY, T. D. Cutting technique for wood. VII. Wood Working Digest 52(10):71-72,74-77. (Concl.) Oct.1950. 99.82 W87
- 12902 PERRY, T. D. Research in woodworking reevaluated. 34. Canad. Woodworker 50(8):24,42,51. Aug. 1950. 99.82 C162
- 12903 REHRL, K. Werkzeuge zur holzbearbeitung. Osterr. Landtech. 3:164-167. June 1950. 58.8 L236
- 12904 VOELSKOW, P. Kritische betrachtung über fräswerkzeuge für kopier-oberfräsen. Holz-Zentbl. 76: 997-998. Aug.1,1950. 99.81 H742

#### Seasoning, Conditioning and Finishing

- 12905 BINGHAM, D. How to correct surface defects in plywood finishing. Wood Prod. 55(9):29-30,32. Sept. 1950. 99.82 W856
- 12906 CZEPEK, E. Wärmehzahlen künstlicher holztrocknung. Holz-Zentbl. 76:1215-1216. Sept.16,1950. 99.81 H742
- 12907 DEROGEE, D. Matching gumwood to mahogany with padding stains. Canad. Woodworker 50(8):36. Aug.1950. 99.82 C162
- 12908 EBERT, F. A. Furniertrockenanlagen. Holz 4:191-194. Oct.1950. 99.82 H743
- 12909 EISENMANN, E. Mechanische holztrocknung mit trocken zentrifugen. Holz-Zentbl. 76:1153-1154. Sept.5,1950. 99.81 H742
- 12910 EYRES, H. T. The wearing properties of wood floors. 3. Surface dressing. Wood [London] 15:404-406. Nov.1950. 99.82 W855
- 12911 GIBSON, G. B. Cold check resistance of finishes on wood. Canad. Woodworker 50(10):91-92. Oct.1950. 99.82 C162
- 12912 LOFTUS, C. Cellulose lacquers as applied to wood finishing. Timber News 58:369,372. Sept.1950. 99.81 T482
- 12913 MORAN, T. H. The finishing of Douglas fir plywood. Amer. Paint J. 35(8-C):16-20. Nov.18,1950. 306.8 Am32A
- 12914 PANSHIN, A. J. Lumber dry kilns and their operations. 8. Wood Prod. 55(9):21-22,24. Sept.1950. 99.82 W856
- 12915 SMEATHERS, R. The seasoning of timber. Agr. Soc. Trinidad & Tobago. Proc. 50:129-131. June 1950. 8 T73
- 12916 SMITH, H. H. Further experiments in seasoning California black oak [Quercus kelloggii]. U. S. Forest Serv. Calif. Forest & Range Expt. Sta. Forest Res. Note 75,8 p. Sept.20,1950. 1.9 F7626R
- 12917 STEVENS, W. C. Timber seasoning with some reference to American practice. 2. (Condensed.) Timber News 58:360,363. Sept.1950. 99.81 T482
- 12918 TIEMANN, H. D. The kiln-drying of lumber. 23. South. Lumberman 181(2271):60,62. Nov.15,1950. 99.81 So82
- 12919 TORGESON, O. W., and SMITH, H. H. A furnace-type lumber dry kiln. U. S. Forest Serv. Forest Prod. Lab. Rpt. D1474,rev.,23 p. May 1950. 1.9 F761R
- 12920 TORGESON, O. W. A small house-furnace lumber dry kiln. South. Lumberman 181(2271):41-42,44, 46,48,50. Nov.15,1950. 99.81 So82
- 12921 WILKINSON, G. Moisture pointers. Wood [Chicago] 5(12):12,14. Dec.1950. 99.82 W859
- For kiln-drying lumber.

#### Wood Preservation and Damage

- 12922 BECKER, G. Neue erkenntnisse über fluorverbindungen im holzschutz. Angew. Chem. 62:382-385. Ref. Aug.21,1950. 384 Z33
- 12923 CARR, D. R. Preserving farm timber. New Zeal. Dairy Exporter 26(4):11-14. Oct.1950. 44.8 N484
- 12924 KOLLMANN, F. Holzschutz in Schweden. Holz-Zentbl. 76:963-966. July 25,1950. 99.81 H742
- 12925 KRIEG, W. Holzschutz. Zucker 3:350-354. Aug.15,1950. 65.8 Z82
- 12926 LESSER, M. A. Wood preservatives. Soap & Sanit. Chem. 26(11):114-115,117,119,141. Ref. Nov. 1950. 307.8 So12
- 12927 MCKINNEY, J. Make a post-treating vat from oil drums. Prog. Farmer, Miss.-Ark.-La. Ed. 65(11): 134-135,142. Nov.1950. 6 So81

- 12928 MACLEAN, J. D. Results of experiments on the effectiveness of various preventatives in protecting wood against marine-borer attack. U. S. Forest Serv. Forest Prod. Lab. Rpt. D1773,19 p. June 1950. 1.9 F761R

- 12929 PRETTIE, R. J. Wood preservation. Thunder Bay Timber Oper. Assoc. Log Book 2(3):14-16. Sept./Oct.1950. 99.8 T42

- 12930 STACEY, W. A. Creosoted wood poles in urban lighting systems. Wood Preserv. News 28:110-111, 115-116. Sept.1950. 300.8 W853

#### FOREST PRODUCTS

- 12931 CAMPREDON, J. La défense du bois. Action Forest. et Piscicole 156:3-4;157:2. (To be cont.) Sept.-Oct.1950. 99.8 Ac8

- 12932 DIXON, R. D., and FARIS, E. T. Markets for forest products in central and north Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 22,102 p. June 1950. 100 G29M

- 12933 JENKINS, J. H. Development of forest products research in Canada. Brit. Columbia Lumberman 34(11):41-42,108,110,112-113. Nov.1950. 99.81 B77

- 12934 U. S. FOREST SERV. DIV. OF FOREST ECONOMICS. Materials survey; lumber, railroad ties, veneer and plywood, poles and piles, compiled for the Materials Office, National Security Resources Board. Washington,1950. 253 p. Ref. 1.962 F4M41

- 12935 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Partial list of Government publications of interest to architects, builders, engineers, and retail lumbermen. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1081,19 p. July 1950. 1.9 F761R
- Wood and wood products.

#### Lumber and Rough Products

- 12936 HOFFMAN, H. L., III. The romance of firewood. Amer. Forests 56(12):17,43. Dec.1950. 99.8 F762

- 12937 NEETZEL, J. R., and ENGINE, S. A. What do fence posts cost on an annual basis? U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 341,2 p. Oct.1950. 1.9 F7625T

- 12938 OFF. FORESTIER CENTRAL. L'importation des bois de feu. Forêt 3:214-217. Aug.1950. 99.8 F7683
- Switzerland.

- 12939 ROE, E. I. Sawlogs from a young pine [Pinus] plantation. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 345,1 p. Oct.1950. 1.9 F7625T

- 12940 WASHINGTON (STATE) UNIVERSITY. INSTITUTE OF FOREST PRODUCTS. DEPT. OF CONSERVATION AND DEVELOPMENT. Inventory of unused wood in District 5, 8, 11. Wash. Inst. Forest Prod. B. 2-5,10-12. Ref. 1950. 99.9 W278

#### Building Construction

- 12941 HETTERICH, G. Fussbodendielen im wettbewerb. Holz-Zentbl. 76:928-929. July 18,1950. 99.81 H742

- 12942 MELLERSH, J. Five laminated timber arches for an archway to the festival. Wood [London] 15:398-403. Nov.1950. 99.82 W855

- 12943 WAKEFIELD, W. E. Lamination, an important development in wood utility. Canada Lumberman 70(11): 35,72,92. Nov.1950. 99.81 C16

#### Veneers, Plywood and Adhesives

- 12944 ARMSTRONG, J. B. Softwood plywood: some manufacturing problems. Brit. Columbia Lumberman 34(11):50,96,98,100. Nov.1950. 99.81 B77

- 12945 BAILEY, N. Veneer and plywood. III. Wood Working Digest 52(10):119-120,122. Oct.1950. 99.82 W87

- 12946 BARNES, J. A. New glues help extend world's timber supply. Canad. Woodworker 50(10):86-88,121. Oct.1950. 99.82 C162

- 12947 EICKNER, H. W., and SCHOWALTER, W. E. A study of methods for preparing clad 24S-T3 aluminum-alloy sheet surfaces for adhesive bonding. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1813,14 p. May 1950. 1.9 F761R



- 12948 GRANBERG, W. J. Worker-owned ply plants. Wood [Chicago] 5(12):23,40. Dec.1950. 99.82 W859
- 12949 HOLLAND, F. W. Rapid glue setting and radio frequency heating. Wood [London] 15:426-429. Nov.1950. 99.82 W855
- 12950 HYLER, J. E. Cold pressed plywood. South. Lumberman 181(2270):53-54,56,58. Nov.1,1950. 99.81 So82
- 12951 HYLER, J. E. Gluing equipment should be used for purposes designed. Veneers I Plywood 44(10):32-34. Oct.1950. 99.82 V55
- 12952 IRSCHICK, E. Das "stehvermögen" von sperrplatten. Holz-Zentbl. 76:1017-1018. Aug.5,1950. 99.81 H742
- 12953 KLAUDITZ, W. Verwendung und wirkung von kunstharz-bindemittel bei der herstellung von holzfaser- und holzspanplatten. (Abs.) Angew. Chem. 62:461. Oct.7,1950. 384 Z33
- 12954 KRAEMER, O. Güte- und kennzeichnungsrichtlinien für sperrholz. Holz-Zentbl. 76:1171-1172. Sept.9, 1950. 99.81 H742
- 12955 LIPKA, W. Tischlerplatten mit mittellagen aus buchenholzstäbchen. Holz 4:149-151. Aug.1950. 99.82 H743
- 12956 MILLER, D. G. The manufacture of lumber-core plywood. 1. Timber Canada 11(3):19-21,65-66. Nov. 1950. 99.81 T487
- 12957 MOHAUPT, A. A., and HEEBINK, B. G. Repair of aircraft sandwich constructions. Supplement. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1584-A, 8 p. May 1950. 1.9 F761R
- 12958 OTTINGER, L. Novoply. Chemurg. Digest 9 (12):7-8. Dec.1950. 381 N213Na
- 12959 PARIS. INSTITUT NATIONAL DU BOIS. Les aciers à outils et l'usinage des bois; colles ou contreplaques. Inst. Natl. du Bois Etude Tech. 2,8 p. Jan.1950. 99.9 P21E
- 12960 PERRY, T. D. A modern approach to the old problem of face thickness in plywood. Wood Prod. 55(9):33-36. Sept.1950. 99.82 W856
- Similar title in Canad. Woodworker 50(10):103,130,136. Oct.1950. 99.82 C162
- 12961 PERRY, T. D. Preventing warped lumber and lumber core stock. Wood Prod. 55(11):29-32. Nov.1950. 99.82 W856
- 12962 SAKS, E. V. Veneering department is plywood plant in miniature. Veneers & Plywood 44(10):12-14. Oct.1950. 99.82 V55
- 12963 SCHAUB, B. V. Adhesives meet challenge. Canad. Woodworker 50(10):100. Oct.1950. 99.82 C162
- 12964 WHITTIER, R. J. Building small boats of plywood. I-II. Hunting & Fishing 27(10):38-39; (11):38-40. Oct.-Nov.1950. 410 H922
- 12965 WINLUND, E. S. R. F. In end-gluing and edge-gluing. Wood [Chicago] 5(12):22,42,44. (To be cont.) Dec.1950. 99.82 W859
- 12966 YAVORSKY, J. M. R. F. properties of resin adhesives. Wood [Chicago] 5(11):22-23. Nov.1950. 99.82 W859
- ### Furniture
- 12967 PARRISH, F. T. Utilization through design. Wood [Chicago] 5(11):19,43. Nov.1950. 99.82 W859
- Furniture design as aid to lumber utilization.
- ### Containers
- 12968 FRIEDRICH, K. Güteanforderungen an das werkholz des böttcher- und küferhandwerks. Holz-Zentbl. 76:1140. Sept.2,1950. 99.81 H742
- 12969 GRANT, P. Modern barrel production. Wood [Chicago] 5(12):24-25,40-41. Dec.1950. 99.82 W859
- 12970 GRIFFAULT, P. Étude sur la caisse floridienne. Bois et Scieries 56:817-818,863-865. (Cont.) Sept.7-21,1950. 99.81 B632
- 12971 TASSEAU. Il faut intensifier la propagande en faveur de l'emballage bois. Bois et Scieries 56:910-911. Oct.5,1950. 99.81 B632
- 12972 TAYLOR, C. E. Solid fibre boxes. Fibre Containers 35(11):78. Nov.1950. 286.8 F44
- ### Pulp and Paper
- 12973 AMERICAN PULP AND PAPER MILL SUPER-INTENDENTS ASSOCIATION. Yearbook, thirtieth annual edition, 1949. New York,1950. 421 p. 302.9 Am35
- 12974 BECKLER, W., JR. Kraft pulping. Paper Trade J. 131(22):164-171. Nov.30,1950. 302.8 P196
- 12975 CARLIN, T. J. Kraft pulping. Paper Trade J. 131(22):171-172,174,177-178. Nov.30,1950. 302.8 P196
- 12976 CAULFIELD, J. G. L. Sulfit pulping, general. Paper Trade J. 131(22):125-126,128,130,131. Nov.30, 1950. 302.8 P196
- 12977 DEMERITT, D. B. A brief summary of pulp-wood production in the Northeast. Paper Trade J. 131 (22):108-109. Nov.30,1950. 302.8 P196
- 12978 DOANE, F. P., JR. Building a paper mill to use residual agricultural material. South. Pulp & Paper Mfr. 13(11):16,20. Nov.15,1950. 302.8 So8
- 12979 FOWLER, R. M. The North American pulp and paper industry. Canad. Pulp & Paper Indus. 3(10):10,25. Oct.1950. 302.8 W52
- 12980 GIANNI, E. L'industria della carta dalle origini ad oggi. Milano, Scuola del Libro Della Società Umanitaria, 1949. 46 p. 302 G341
- 12981 HAGGLUND, E. The chemistry of the sulphite pulping process and the evaporation of its waste liquor. Tappi 33:520-527. Oct.1950. 302.8 T162
- 12982 HELVERSEN, F. D. Outstanding material handling practices in the pulp and paper industry on the West Coast. Tappi 33(11):14A,16A,18A,20A,22A,24A,26A, 28A. Nov.1950. 302.8 T162
- 12983 HUME, R. M. Mechanical pulping. Paper Trade J. 131(22):121-122,124-125. Nov.30,1950. 302.8 P196
- 12984 JAESCHKE, A. Die maschinelle einrichtung zur herstellung von leichtbauplatten Holz 4:151-154,194-196. Aug.,Oct.1950. 99.82 H743
- 12985 KELLER, E. L. Effect of bark in the neutral sulphite semichemical pulping of aspen, hickory, and slash pine. Tappi 33:556-560. Ref. Nov.1950. 302.8 T162
- 12986 LIBBY, G. E. High yield pulps from hardwoods. Pulp & Paper Mag. Canada 51(12):125. Nov.1950. 302.8 P96
- 12987 LUNDBERG, A. H. Chlorine dioxide bleaching. Pulp & Paper 24(12):94,96. Nov.1950. 302.8 P11
- 12988 MCGOVERN, J. N. Relations between yield and properties of spruce and aspen sulphite and sulphite semichemical pulps. Tappi 33:486-389. Ref. Oct.1950. 302.8 T162
- Picea mariana and Populus tremuloides.
- 12989 NIVISON, R., JR. The manufacture of mechanical pulp. Paper Trade J. 131(22):115-119,121. Nov.30, 1950. 302.8 P196
- 12990 PARSONS, J. L. Chlorine bleaching of chemical pulp. Paper Trade J. 131(22):216-217,220-222. Nov.30,1950. 302.8 P196
- 12991 PERRY, H. J. Neutral sulfite semichemical pulping process. Paper Trade J. 131(22):152,154,156-157. Nov.30,1950. 302.8 P196
- 12992 PIERCE, L. A. Peroxide bleaching. Paper Trade J. 131(22):203-204,206,208,211. Nov.30,1950. 302.8 P196
- 12993 PRINGLE, J. W., and LAUER, B. E. Pulp and papermaking prospects in western Colorado. Tappi 33 (11):38A,40A,42A. Nov.1950. 302.8 T162
- 12994 RAMIRO, M. P. Suitability of Manila hemp waste for paper making material. I. Pulping of Manila hemp waste by the soda process. Philippine J. Sci. 78: 355-364. Sept.1949. 475 P53
- 12995 REDDEN, C. A. The wood room. Paper Trade J. 131(22):109-112,114. Nov.30,1950. 302.8 P196
- 12996 RENIER, M. Les bambous des plateaux du Kwango, matière première de la pâte à papier. B. Agr. du Congo Belge 41:741-764. Sept.1950. 24 K83
- Bambusa, Gigantochloa and Arundinaria.
- 12997 ROBERTS, F. W. The evolution of the modern recovery unit for soda and sulfate pulp mills. Paper Trade J. 131(22):191-194,196-200,202. Nov.30,1950. 302.8 P196
- 12998 SAPP, J. E. Production and refining of semichemical pulp for .009. Fibre Containers 35(11):63-67. Nov.1950. 286.8 F44
- Includes wood preparation.
- 12999 SCRIBNER, B. W., and others. Resin bonding of hardwood fibers in offset papers. Natl. Bur. Standards J. Res. 45:208-217. Sept.1950. 157.88 J82
- M. B. Shaw, M. J. O'Leary, and J. K. Missimer, joint authors.



13000 SEABRA, L. S. V. DE. Considerações acerca da contribuição das espécies coloniais para a indústria da pasta para papel [Considerations on raw materials from the colonies for paper pulp]. Lisboa, 1949. 22 p. (Portugal) Junta de Investigações Coloniais. Colóquios, 5) 99.27 Sel

13001 SINGH, C. Interim report on the manufacture of newsprint from paper mulberry (*Broussonetia papyrifera*). Indian Forest B. New Ser. Cellulose & Paper, 143,14 p. 1950. 99.9 In22B

13002 SITCH, D. A., and MARSHALL, H. B. The effect of hemicelluloses on the papermaking properties of white birch [*Betula papyrifera*]. Canad. J. Res. Sect. F, Technol. 28:376-389. Ref. Oct.1950. 470 C16F

13003 SPROULL, R. C., METHVIN, L., and HARD, H. G., JR. Kraft pulp from old crossties. South. Pulp & Paper Mfr. 13(11):38,40. Nov.15,1950. 302.8 So8

13004 STEPHENSON, J. N. Quebec's pulp and paper industry since 1803. Pulp & Paper Mag. Canada 51(12): 95-103. Nov.1950. 302.8 P96

13005 STEVENSON, L. T. Outlook for paper and paper containers. Paper Mill News 73(44):16,23. Nov.4, 1950. 302.8 P195

Includes wood pulp requirements.

13006 SUNDMAN, J. The polysaccharide hydrolysis during the sulphite cooking process. (In Swedish.) Papperi ja Puu. B 32:267-274. Ref. Sept.15,1950. 302.8 P1991 English summary.

13007 TOMLINSON, G. H. Trends in pulp and paper production from the research angle. Pulp & Paper Mag. Canada 51(12):163,166-167. Nov.1950. 302.8 P96

13008 WALLACE, L. C. Papermaking fibers. South. Res. Inst. Q. B. 3(2):11-14. 1950. 303.9 So86 Wood and other agricultural products.

13009 WERNER, T. H. Caustic pulping, the soda process. Paper Trade J. 131(22):158-163. Nov.30,1950. 302.8 P196

#### Chemical Products and Distillates

13010 ARDIKOESOEMA, R. I., and LINDEN, P. J. VAN DER. Gom van Kaju Djaran (*Lannea coromandelica*) [Gum from Lannea grandis Eng. (*L. coromandelica* Merr.)]. Netherlands Indies. Bosbouwproefsta. Rap. 36,6 p. July 1950. 99.9 Ea72R English summary.

13011 BRAVO, G. A. Il castagno ed il suo estratto tannico [The chestnut and its tannic extract]. Torino, Ritalannino, Associazione fra i Fabricanti di Estratti Tannici, 1949. 107 p. 99.79 B732

13012 FENTON, R. H. A possibility for producing more charcoal. Conn. Woodlands 15:42. Sept.1950. 99.8 C76

13013 KURTH, E. F., and RATNAM, C. V. S. Products obtained by destructive distillation of Douglas-fir bark. Tappi 33:517-519. Ref. Oct.1950. 302.8 T162

13014 OPACIC, I. Extraction of sumac leaves. (In Croatian.) Sumarski List 74:304-313. Ref. July/Aug. 1950. 99.8 Su6

13015 ROGERS, J. S., CALDERWOOD, H. N., and BEEBE, C. W. Study of the tannin contents of barks from the Florida scrub oaks *Quercus laevis* and *Q. cinerea*. Amer. Leather Chem. Assoc. J. 45:733-751. Ref. Nov.1950. 303.9 Am32

13016 SCHAMBACH, H. Chemische verwendbarkeit des rohstoffes holz. Holz-Zentbl. 76:1071-1072. Aug.17, 1950. 99.81 H742

13017 WARHADPANDE, U. R., MENE, P. S., and SALETOR, S. A. Destructive distillation of some Central Provinces woods. J. Sci. & Indus. Res. 9B:234-236. Sept.1950. 475 J82

#### Naval Stores

13018 BRIGGS, M. S. The U. S. Department of Agriculture and gum naval stores prices. Washington, U. S. Prod. & Mktg. Admin., 1950. 10 p. 1.956 Sp3B76 Talk at convention of Georgia Farm Bureau Federation, Macon, Nov. 7, 1950.

13019 CLEMENTS, R. W. Results of 1949 pilot plant tests of acid stimulation. AT-FA Journal 12(12):11-12. Sept.1950. 309.8 Am3

13020 DE SILVIA, E. R. One hundred, ten years of gum processing. AT-FA Journal 12(12):8-9. Sept.1950. 309.8 Am3

13021 DE SILVIA, E. R. Secretary of Agriculture Brannan approves naval stores program. Conserv. News 5(18):5,7. Nov.23,1950. 279.8 C768

13022 ESCUDERO, A. Acotaciones sobre la industria resinera. B. Forest. 2(24):17-21. Oct.1950. 99.8 B633

13023 PEJOSKI, B. Un supplement a la connaissance de la gemme de pin (gemme du pin d'Alep). (In Croatian.) Sumarski List 74:297-304. July/Aug.1950. 99.8 Su6 French summary.

13024 SHIRLEY, R. The value of working slash and longleaf pines for naval stores. AT-FA Journal 13(2):7-10. Nov.1950. 309.8 Am3

#### Other Forest Products

13025 BLUMENSTEIN, R. Wood and your shoes. Amer. Forests 56(12):22-24,43-44. Dec.1950. 99.8 F762 Shoe lasts from *Acer saccharum*.

13026 BOOTH, C. E. Evergreens forever. Amer. Forests 56(12):18-19,29,33. Dec.1950. 99.8 F762

13027 CARPENTER, R. D. Amount of chippable waste at southern pine sawmills. U. S. Forest Serv. South. Forest Expt. Sta. Occas. Paper 115,7 p. Nov.1950. 1.9 F7624O

13028 DICKINSON, T. A. Wood in the automotive field. Wood Working Digest 52(10):127-128,133-134. Oct.1950. 99.82 W87

13029 FRITZ, N. H. Harvest time for holly. Amer. Forests 56(12):20-21,44-45. Dec.1950. 99.8 F762

13030 GETSON, S. F. Christmas tree industry big business in Nova Scotia. Marit. Farmer & Co-op. Dairyman 56(5):3. Dec.5,1950. 7 C77

13031 LAMP, I. Der "rindenwurm." Österr. Forst- u. Holzwirt. 5:106. Apr.7,1950. 99.81 Os7

13032 LORENZ, R. W., and FOX, H. W. Returns from pruning a young red pine [*Pinus resinosa*] plantation for Christmas greens. Ill. Agr. Expt. Sta. Dept. Forestry. Forestry Note 18,3 p. Nov.27,1950. 99.9 IL62

13033 MEYER, A. B. The Christmas tree. Outdoor Amer. 15(8):4-5. Nov./Dec.1950. 410 Iz1

13034 PICKETT, J. Christmas trees—a new farm crop. Calif. Farmer, North. Ed. 193:416-417. Nov.4, 1950. 6 C126

Christmas tree farming in California.

13035 RAUTNIG, J. Abfallholzverwertung. Holz-Zentbl. 76:901-902. July 13,1950. 99.81 H742

13036 REHMAN, M. A., and KISHEN, J. Indian woods for battery separators. Indian Forest B. New Ser. Wood Seasoning 147,16 p. 1950. 99.9 In22B

13037 RISI, J. Conservation par l'utilisation des déchets de bois. Forêt et Conserv. 2:857-861,863-869, 871-873. (Concl.) Ref. Oct.1950. 99.8 F792

13038 STAJDUHAR, F. The brickworks of sawdust. (In Croatian.) Sumarski List 74:288-296. July/Aug.1950. 99.8 Su6

13039 STROMBECK, H. Formstücke aus holzabfällen mit igecollbindung. Holz-Zentbl. 76:1020. Aug.5, 1950. 99.81 H742

13040 TAMBLYN, W. J. Bark as fuel. Thunder Bay Timber Oper. Assoc. Log Book 2(3):4. Sept./Oct.1950. 99.9 T42

13041 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. General recommendations regarding methods for wood waste utilization. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1666, rev., 2 p. Aug.1950. 1.9 F761R

13042 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Insulating boards from mill wastes, forest thinnings, and cull trees. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1762, 11 p. June 1950. 1.9 F761R

13043 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Insulation board, wallboard, and hardboard. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1677, rev., 5 p. July 1950. 1.9 F761R

13044 VOELSKOW, P. Die bearbeitung und verbindung von holzspanplatten. Holz-Zentbl. 76:1173-1174. Sept.9,1950. 99.81 H742

13045 VOGEL, M. Formstücke aus holzabfällen. Holz-Zentbl. 76:1109. Aug.26,1950. 99.81 H742

13046 WALKER, A. Les arbres à pagaies et à avirons au Gabon. Cour. Agr. 15(18):3-4;(20):2. Aug.29-Sept.27,1950. 24 C83



## WOOD TECHNOLOGY

- 13047 BARKLEY, J. F., and MORGAN, R. E. Burning wood waste for commercial heat and power. U. S. Bur. Mines. Inform. C. 7580, 12 p. Sept. 1950. 156.61 C49
- 13048 BARTON, J. S. The reaction products of lignin and sodium chlorite in acid solution. Tappi 33:496-503. Ref. Oct. 1950. 302.8 T162
- 13049 DOUGLAS, I. B. The chemistry of cellulose and wood. Paper Trade J. 131(22):99-100, 103-106. Ref. Nov. 30, 1950. 302.8 P196
- 13050 FAREL, K. W. Sobre química maderera. Montes 34:511-513. July/Aug. 1950. 99.8 M763
- 13051 KAJANNE, P. On the composition of the fatty acids of pine wood extract and tall oil; a spectrophotometric investigation. Acta Chem. Scand. 4:1147-1149. 1950. 385 Ac82
- 13052 KURTH, E. F. The chemical analysis of western woods. III. Tappi 33:507-508. Oct. 1950. 302.8 T162
- 13053 LINDSTEDT, G. Constituents of pine heartwood. XXII. Acta Chem. Scand. 4:1042-1046. 1950. 385 Ac82
- 13054 MCMILLEN, J. M. Methods of determining the moisture content of wood. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1649, rev., 8 p. July 1950. 1.9 F761R
- 13055 MARYLAND. UNIVERSITY. DEPT. OF BACTERIOLOGY. The biological degradation of lignin. n.p., 1949. 22, 15 p. 301 M362
- Contents: I. Utilization of lignin by fungi, by W. C. Day, M. J. Pelczar, Jr., and S. Gottlieb; II. Isolation and properties of lignin-oxidizing enzyme, by S. Gottlieb and J. H. Geller.
- 13056 RICHTZENHAIN, H. Über den oxydativen abau von lignin. (Abs.) Angew. Chem. 62:447. Oct. 7, 1950. 384 Z33
- 13057 STUMPF, W. Neue ergebnisse auf dem gebiet der ligninchemie. (Abs.) Angew. Chem. 62:447. Oct. 7, 1950. 384 Z33
- 13058 VERGHESE, J. On the carenes in Indian turpentine oil from *Pinus longifolia* Roxb. Cur. Sci. 19:212. July 1950. 475 Sci23

## Properties and Structure

- 13059 ANGELL, H. W., GOTTSCHALK, F. W., and MCFARLAND, W. A. Ignition temperatures of fire-proofed wood, untreated sound wood, and untreated decayed wood. Timber Canada 11(3):24-27. Nov. 1950. 99.81 T487
- 13060 BOLLER, K. H., and NORRIS, C. B. Effect of shear strength on maximum loads of sandwich columns. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1815, 12 p. June 1950. 1.9 F761R
- 13061 FREAS, A. D. Studies of the strength of glued laminated wood construction. Amer. Soc. Testing Mater. ASTM B. 170:TP274-TP285. Dec. 1950. 290.9 Am34B
- 13062 FRISON, E. Structure du bois de bushaie Lebrunia bushaie Staner - Guttiferae; valeur industrielle et possibilités d'emploi. B. Agr. du Congo Belge 41:715-730. Sept. 1950. 24 K83
- 13063 HESS, R. W. Identification of *Swietenia* and *Carapa*. Yale U. School Forestry. Trop. Woods 96:47-50. Sept. 1, 1950. 99.08 Y1Tr
- 13064 HESS, R. W. New genera of American woods. Yale U. School Forestry. Trop. Woods 96:50-55. Sept. 1, 1950. 99.08 Y1Tr
- New to the Yale collection.
- 13065 HYLAND, F. The structure of wood. Paper Trade J. 131(22):87, 90-94, 96-98. Nov. 30, 1950. 302.8 P196
- 13066 KINGSTON, R. S. T. Sorption and swelling of cellulosic materials with special reference to wood. (Sum.) Roy. Austral. Chem. Inst. J. & Proc. 17:259-261. July 1950. 385 Au72
- 13067 LAMB, G. N. Foreign woods; origin, use, properties and nomenclature. Wood Prod. 55(9):26, 28. Sept. 1950. 99.82 W856
- 13068 LISKA, J. A. Effect of rapid loading on the compressive and flexural strength of wood. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1767, 10 p. June 1950. 1.9 F761R

- 13069 NORRIS, C. B., and KOMMERS, W. J. Short-column compressive strength of sandwich constructions as affected by the size of the cells of honeycomb-core materials. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1817, 7 p. Aug. 1950. 1.9 F761R
- 13070 NORRIS, C. B. Strength of orthotropic materials subjected to combined stresses. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1816, 19 p. July 1950. 1.9 F761R
- 13071 PECK, E. C. Moisture content of wood in use. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1655, rev., 4 p. June 1950. 1.9 F761R
- 13072 REICHERT, T. Neues holzuntersuchungsverfahren zur bestimmung von feuchtigkeit, derbgehalt, raumdichtezahl, rohichte, schwund und spezifischem gewicht. Holz-Zentbl. 76:938-940. July 20, 1950. 99.81 H742
- 13073 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on the mechanical properties and structural uses of wood and wood products. U. S. Forest Serv. Forest Prod. Lab. Rpt. R200, rev., 48 p. Aug. 1950. 1.9 F761R
- 13074 WERREN, F., and NORRIS, C. B. Analysis of shear strength of honeycomb cores for sandwich constructions. Washington, 1950. 18 p. (Natl. Adv. Com. Aeronaut. Tech. Note 2208) 290 W49
- 13075 WERREN, F. Effect of prestressing in tension or compression on the mechanical properties of two glass-fabric-base plastic laminates. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1811, 12 p. Sept. 1950. 1.9 F761R

## ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

## BREEDS AND BREEDING

- 13076 ARCULARIUS, H. Die bedeutung der lehre Mitschurins für die tierzucht. Deut. Landwirt.-Gesell. Mitt. 3:266-267. Aug. 1950. 18 D48Mi
- 13077 BONADONNA, T. Organization of breeders for artificial insemination. (In Italian.) Ital. Agr. 87:569-572. Sept. 1950. 16 It1
- 13078 CUGNINI. Genetic phases for the morpho-functional selection of livestock. II-III. (In Italian.) Campagnolo 5(10):1-2; (11):1-2. Oct.-Nov. 1950. 16 C15
- 13079 EMMENS, C. W., and BLACKSHAW, A. W. The low temperature storage of ram, bull and rabbit spermatozoa. Austral. Vet. J. 26:226-228. Sept. 1950. 41.8 Au72
- 13080 FERRETTI, A. A small dry sterilizer for pipettes for artificial insemination. (In Italian.) Prog. Vet. 5:570-572. Oct. 15, 1950. 41.8 P942
- 13081 FOSTER, J. C., JR. Science vs. art in breeding. Saint Fancier 83:3-4. Sept. 1950. 48.8 Sa2
- 13082 GARRIGUS, W. P. Kentucky's purebreds are winning fame; the slogan "bred in old Kentucky" is rapidly becoming an important one in national livestock circles. Ky. Farmer 86(11):12-13. Nov. 1950. 6 F2237
- 13083 GONZALEZ ALVAREZ, R. La herencia patológica en los animales domésticos. Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg. 10-50 H, 12 p. June 1950. 15 H68
- 13084 GONZALEZ ALVAREZ, R. La preadaptación como explicación biológica del parasitismo. Res 18: 25348-24350. Oct. 5, 1950. 286.85 R31
- Animals.
- 13085 JAHNEL, J. Der samenversand im sommer. Wien. Tierärztl. Monatsschr. 37:585-591. Aug. 1950. 41.8 T345
- 13086 KISLOVSKIY, D. A. Urgent problems of science in breeding and improvement of farm animals. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 11:114-115. 1949. 20 M857
- 13087 KUSHNER, KH. F. Inconsistency of the Morganist "theory" of selection of farm animals. (In Russian.) In Mitin, M. B., ed. Protiv reaktsionnogo mendelizma-morganizma; sbornik statei, p. 272-325. Moskva, Akademiya Nauk SSSR, 1950. 442 M69P



13088 KUSHNER, KH. F. Michurinites—livestock breeders. (In Russian.) In Shibaniy, A. A., comp. *Sbornik statei po voprosam Michurinskoi biologii*, p.66-77. Ref. Moskva, Ministerstvo Prosveshcheniia RSFSR, 1950. 442 Sh6S

Chiefly on M. F. Ivanov and S. I. Shtelman's achievements in developing new breeds.

13089 LARSSON, E. L. General review of artificial insemination; about the annual meeting of the National Organization of Sweden's Insemination Associations. (In Swedish.) *Ladugården* 1950(7):195-201. July 1950. 44.8 L12

13090 MERCIER, E. Que vaut le tableau généalogique? *Digeste de l'Eleveur* 5(3):7-10. Nov.1950. 49 D56

13091 MICHAEL, R. D. Artificial breeding in Virginia. *Commonwealth* 17(12):35-36,106. Dec.1950. 280.8 C732

13092 OUELLET, A. Registre du troupeau. *Digeste de l'Eleveur* 5(3):14-15. Nov.1950. 49 D56

13093 PAKHTUSOV, Z. Problems in pedigree breeding work on the livestock raising state farms. (In Russian.) *Miasnafa Indus. SSSR*. 21(3):50-56. May/June 1950. 50.8 M58

13094 QUESENBERRY, J. R. Livestock breeding research at the U. S. Range Livestock Experiment Station. *U. S. D. A. Agr. Inform. B.* 18,12 p. 1950. 1 Ag84Ab

13095 SCIUCHETTI, A. Die künstliche besamung. *Agrarpolit. Rev.* 7:135-143. Oct./Nov.1950. 281.8 Ag824

### FEEDS AND FEEDING

13096 AKHMETCHIN, S. Livestock fattening at [Cherkassk] district agency [Kiev Region]. (In Russian.) *Miasnafa Indus. SSSR*. 21(2):84-85. Mar./Apr.1950. 50.8 M58

13097 ALLEN, N. N., BOHSTEDT, G., and DUFFEE, F. W. How about grass silage? Some suggestions on making and feeding it. *Wis. Agr. Col. Ext. Stencil C.* 277, rev., 13 p. Aug.1950. 275.29 W75B

13098 ASHTON, W. M. Elements of animal nutrition. London, Griffin, 1950. 208 p. 389.7 As3

13099 BAUR, M. Behelfsmässiges einsäuern von futterkartoffeln. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1379. Oct.5,1950. 18 L2346

13100 BAUR, M. Die einsäuerung von grünfutter im strohsilo. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1341-1342. Sept.28,1950. 18 L2346

13101 BEESON, W. M. Hormones and their place in nutrition. (Abs.) *Feedstuffs* 22(48):38-39. Dec.2,1950. 286.81 F322

13102 BIRD, H. R. Antibiotics in feed. *Flour & Feed* 51(6):18. Nov.1950. 298.8 F66

13103 BLAYLOCK, L. G., RICHARDSON, L. R., and PEARSON, P. B. The riboflavin, pantothenic acid, niacin and folic acid content of fresh, dehydrated and field-cured alfalfa. *Poultry Sci.* 29:692-695. Ref. Sept.1950. 47.8 Am33P

13104 BLEICHERT, H. V. Nachteile für die tierzucht bei einschränkung des dauergrünlandes? *Tierzüchter* 2:484-485. Sept.20,1950. 49 T445

13105 BOHSTEDT, G. Urea in livestock feeding. *Feedstuffs* 22(47):21-24. Nov.25,1950. 286.81 F322

13106 BORGIOLO, E. Ensilage of forage with formic acid. (In Italian.) *Humus* 6(8):19-21. Aug.1950. 16 H88

13107 BRANCH, R. Los sorgos, tóxicos graves para el ganado. *Pampa Argentina* 23(274):4. Sept.1950. 9 P19

13108 BROWN, W. O. Composition and quality of grass silages made in northern Ireland. An analysis of eight years' results (1940-1948). *Brit. Grassland Soc. J.* 5:225-235. Ref. Sept.1950. 60.10 B773

13109 BURROUGHS, W., and others. Cellulose digestion in good and poor quality roughages using an artificial rumen. *J. Anim. Sci.* 9:513-522. Nov.1950. 49 J82

H. G. Headley, R. M. Bethke, and P. Gerlaugh, joint authors.

13110 BURROUGHS, W. Roughage utilization by ruminants. *East. Feed Merchant* 1(12):18-19,46. Dec. 1950. 389.78 Ea7

13111 CHAMPEVAL. Alimentation du bétail. *Voix des Colons* 32(1577):1. Oct.9,1950. 24 V85

13112 CLANDININ, D. R., and ROBBLEE, A. R. The effects of methods of processing on the nutritive value of sunflower meals. (Abs.) *Poultry Sci.* 29:753. Sept.1950. 47.8 Am33P

13113 CORRIE, F. E. Feeding farm animals. 30. Largely about cocoa bean by-products. *Fert. Feed. Stuffs & Farm Supplies J.* 36:716-718. Nov.15,1950. 57.8 F413

13114 DIXSAUT, R. L'utilisation des aliments concentrés pour l'alimentation du bétail. *Défense Agr. de la Beauce et du Perche* 47:410-412. Nov.11,1950. 14 D36

13115 DREWS, E. Über die bewertung der abfälle in der getreidemüllerei. (Abs.) *Angew. Chem.* 62:431. Sept.21,1950. 384 Z33

As feed.

13116 EBBESEN, E. Récents progrès de l'ensilage au Danemark. *France. Min. de l'Agr. B. Tech. d'Inform.* 50:423-427. June 1950. 14 F844B

13117 ESAT-KADASTER, I. The nutrition value of some Turkish substitute feeds. (Abs.) *J. Anim. Sci.* 9:655. Nov.1950. 49 J82

13118 ESTEBAN, M. La higiene de los alimentos; el actual uso exagerado de los anticriptogámicos hace necesaria una cuidadosa vigilancia. *Cooperación [Madrid]* 103:6-7. Sept.1950. 280.28 C7875

Livestock feeds.

13119 FICKER. Offene fragen bei der kohlenensäure-silierung. *Deut. Landwirt. Presse* 73(21):2-3. Oct.7, 1950. 18 D482

13120 FRENS, A. M. Quelques aspects généraux de la conservation de l'herbe. *France. Min. de l'Agr. B. Tech. d'Inform.* 50:419-422. June 1950. 14 F844B

Artificial drying and silage preparation and nutritive value of the products obtained.

13121 GASSNER. Futterplanung und fütterung! *Allgäuer Bauernbl.* 18:602-603. Oct.12,1950. 18 AL53

13122 GMELIN, W. Der winterfütterung entgegen! *Württemb. Wchnbl. f. Landwirt.* 117:883. Sept.23,1950. 18 W96

13123 GREVE. Neuere erfahrungen in der silage-bereitlung. *Landwirtbl. Weser-Ems* 97:876-877. Oct.19, 1950. 18 L2345

13124 GROSS, A. J. What is APF? *Ohio Farm Bur. News* 30(4):16,28-29. Nov.1950. 6 Oh34

13125 GUTKNECHT, H. Betriebseigene futterbasis und fütterung nach leistung. *Schweiz. Ver. f. Tierzucht. Schr.* 12:29-39. 1949. 49.9 Sch92

13126 HALE, F. A modification of the Pearson square in mixing feeds. *Feedstuffs* 22(44):38. Nov.4, 1950. 286.81 F322

13127 HAMMOND, J. The influence of nutrition on animal production. *Inst. Corn & Agr. Merchants. J.* 2:165-176. Autumn 1950. 10 In7

Includes discussion.

13128 HANSTEIN. Einsäuerung von abgewelktem futter. *Deut. Landwirt. Presse* 73(19):5. Sept.9,1950. 18 D482

13129 HENRIQUES, E. Why use A.I.V. acid for sugar beet tops and does it pay? (In Danish.) *Dansk Landbr.* 69:488. Sept.28,1950. 280.28 V91

13130 HOW TO save silage. *Farm Q.* 5(4):63-65,102, 104. Winter 1951. 6 F22995

Use of a plastic silage cap.

13131 IWEMA, S. Sugar beet leaves and tops could be used more. (In Dutch.) *Drents Landtbl.* 31(37):7. Sept.23,1950. 12 D812

For feed.

Also in Gelders Landtbl. 13(37):7. Sept.23,1950. 12 G282

13132 JENSEN, J. Sugar beets as a substitute for the lack of import of grain and oilcakes. (In Danish.) *Dansk Landbr.* 69:457-458. Sept.7,1950. 280.28 V91

13133 JOHNSTONE-WALLACE, D. B. Grass and the grazing animal. 2. How the animal behaves. *Farmers Wk. [London]* 33(21):54-55,57,59. Nov.24,1950. 10 F2226

13134 KALLBRUNNER, H. Die rübenblattfütterung. *Pflüg* 3:206. Oct.1950. 19 P48

13135 KING, M. G. Feeding soft corn. *Dakota Farmer* 70(21):6. Nov.4,1950. 6 D14

13136 KIRK, L. E. Conservation de l'herbe verte en Grande-Bretagne, pays scandinaves et Hollande. *France. Min. de l'Agr. B. Tech. d'Inform.* 53:639-640. Oct.1950. 14 F844B

Silage preparation.



- 13137 KLEIN-HESSLING, P. Mineralstoffütterung erforderlich? I-II. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1339,1411. Sept.28,Oct.12,1950. 18 L2346 Title varies.
- 13138 KNOTT, C. B. The sulfur dioxide preservation of grass silage. J. Anim. Sci. 9:540-544. Ref. Nov.1950. 49 J82
- 13139 KOKOVKIN, I. I., and SVETLOVA, N. A. Mineral content in water [for livestock]. (In Russian.) Soſſialist. Zhivotnovod. 12(7):59-60. July 1950. 49 So71
- 13140 KULICKE. Neue Erkenntnisse in der Gärfutterbereitung. Deut. Landwirt. Presse 73(20):3;(21):6. Sept.23-Oct.7,1950. 18 D482
- 13141 KUTISH, L. J. Molasses with silage. Flour & Feed 51(6):26. Nov.1950. 298.8 F66
- 13142 LANIER, P. L'alimentation animale: les garanties données aux utilisateurs d'aliments composés. Vie Lait. 6(119):3. Nov.10,1950. 44.8 V67
- 13143 LANIER, P. Les problèmes de l'alimentation animale: de la recherche à l'application pratique. Vie Lait. 6(117):3. Oct.10,1950. 44.8 V67
- 13144 LARSON, L. S. Value of alfalfa in feeds. Flour & Feed 51(6):20,22-23. Nov.1950. 298.8 F66
- 13145 LEGENDRE, G. L'utilisation des grains germés dans l'alimentation des troupeaux. J. de la France Agr. 6:1221. Nov.17/23,1950. 14 J829
- 13146 LUK'ANCHUK, I. N. On the biochemical [nutritive] value of hay and water. (In Russian.) Soſſialist. Zhivotnovod. 12(7):17-18. July 1950. 49 So71 Chiefly on calcium in animal nutrition.
- 13147 MCGOWAN, G. P. Fodder conservation. Tasmanian J. Agr. 21:184-190. Aug.1950. 23 T182T
- 13148 MAIER, W. Die magermilch. Bad. Landwirt. Wchnbl. 117:671-672. Sept.30,1950. 18 W96 Supply and use for livestock feeding.
- 13149 MAKHALOVA, A. S. Preparation of silage in dug-outs. (In Russian.) Soſſialist. Zhivotnovod. 12(7):8-11. July 1950. 49 So71
- 13150 MEMNONOV, V. V., and KOZITSKIĬ, G. N. Management of [livestock] watering in pastures. (In Russian.) Soſſialist. Zhivotnovod. 12(7):57-58. July 1950. 49 So71
- 13151 MERKL, S. Mehr Aufmerksamkeit der Fütterung. Allgäuer Bauernbl. 18:589-590,601-602. Oct.5-12,1950. 18 AL53 Livestock.
- 13152 MIÈGE, E. L'ensilage des fourrages verts. Inform. Marocaine 508:1-2. (To be cont.) Oct.7,1950. 281.8 In3
- 13153 MILLER, W. J., MATRONE, G., and WAUGH, R. K. Comparison of the digestibility of certain pasture forages in the fresh and the dried states. (Abs.) J. Anim. Sci. 9:675. Nov.1950. 49 J82
- 13154 MOLFENTER, W. Kann man stoppelraps einsäuern? Landwirtbl. Weser-Ems 97:836-837. Oct.5,1950. 18 L2345
- 13155 MORALES ANTEQUERA, C. Mas sobre el ensilado de sarmientos. Agricultura [Madrid] 19:422-425. Sept.1950. 15 Ag84
- 13156 MOSKALENKO, KH. S. Travertiny; vysokotsennyy mineral'nyĭ korm dlia sel'skokhoziaistvennykh zhivotnykh [Travertine; a highly valuable mineral feed for farm animals]. Piätigorski, 1950. 24 p. 389.7 M85
- 13157 MOVSISIANTS, A. P. To prepare more silage of better quality. (In Russian.) Veterinariia 27(8):38-40. Aug.1950. 41.8 V6426
- 13158 NATIONAL COTTONSEED PRODUCTS ASSOCIATION. 1951 feeding practices. Natl. Cottonseed Prod. Assoc. Educ. Serv. B. 28,40 p. 1950. 72.9 N213B
- 13159 OBER. Um die Wasserversorgung der Tiere. Tierzüchter 2:409-411. Aug.5,1950. 49 T445
- 13160 OLIVE, J. P. Les aliments composés sont-ils trop chers? Porc 21(7):20-21. Sept.1950. 46.8 P822
- 13161 O'NEILL, J. Time factor in the feeding of livestock. (In Italian.) Agr. Bresciana 3(45):2. Nov.8, 1950. 16 Ag89
- 13162 PABST. Rübendurchfall sicher zu beheben. Landwirt. Informdienst. 1950(6/7):3-4. 18 L2312 Use as feed.
- 13163 PAQUIN, A. M. Amid-futtermittel, bisherige Erfahrungen und Ausblicke. Z. f. Tierzücht. u. Züchtbiol. 58:365-379. Mar.1950. 442.8 Z35
- 13164 PELLEGRIN, V. A propos des abreuvoirs automatiques. Bétail & Basse-Cour 5:443. Nov.1950. 49 B462
- 13165 PÉRUCHON, J., and VALOIS, H. Influence de l'odeur et de la saveur des aliments sur le rendement de l'élevage. Mouton 5:83. Aug./Sept.1950. 45.8 M86
- 13166 PETERSEN-DALUM, J. Increased use of crude feed a job for feed consultants. (In Danish.) Dansk Landbr. 69:413-414. Aug.10,1950. 280.28 V91
- 13167 PHILLIPS, P. H. The nutritive requirements of different species. Feedstuffs 22(42):32,34,36-40. Oct.21,1950. 286.81 F322
- 13168 REID, J. T., and KENNEDY, W. K. Pasture grass, an economical nutrient source. Farm Res. [N. Y. State Sta.] 16(4):3. Oct.1950. 100 N48A
- 13169 RICHARDSON, T. C. Just salt isn't enough for good animal health. Farmer-Stockman 53(11):10,25,45. Nov.1950. 6 Ok45
- 13170 RICHTER, K. Die Kartoffelbau 1:5-6. June 1950. 75.8 K145
- 13171 RUTGERS UNIVERSITY. BUR. OF BIOLOGICAL RESEARCH. Cooperative determinations of the amino acid content, and of the nutritive value of six selected protein food sources, 1946-1950. New Brunswick, 1950. 114 p. 389.1 R93 In animal nutrition.
- 13172 SACCO, P. Without minerals the machine doesn't work! (In Italian.) Glor. di Agr. 60:303. Sept.24,1950. 16 It1G Minerals in animal nutrition.
- 13173 SCHNEIDER, B. H., and LUCAS, H. L. The magnitude of certain sources of variability in digestibility data. J. Anim. Sci. 9:504-512. Nov.1950. 49 J82
- 13174 SCHNEIDER, B. H., and PAVLECH, H. M. Proximate composition, T.D.N., and digestible energy of feeds. (Abs.) J. Anim. Sci. 9:667. Nov.1950. 49 J82
- 13175 SCHWEIZERISCHEN VEREINIGUNG FÜR TIERZUCHT. Futtermittelbewertung und fütterung nach leistung; vorträge an der tagung der Schweizerischen Vereinigung für Tierzucht vom 5. April 1949 auf der Rütli, Zollikofen bei Bern. Schweiz. Ver. f. Tierzucht. Schr. 12,39 p. 1949. 49.9 Sch92
- 13176 SCOTT, H. T. Vitamins D, E and K in nutrition. Feedstuffs 22(42):19-20,22,55-57. Oct.21,1950. 286.81 F322 Livestock.
- 13177 SHEEHY, E. J. The expression of the nutritive value of foods for farm stock. Agr. Ireland 7:258-261. Nov.1950. 10.5 Ag8
- 13178 SHILKOV, A. A. Ensiling clover with timothy and sunflower with vetch. (In Russian.) Soſſialist. Zhivotnovod. 12(6):12-14. June 1950. 49 So71
- 13179 SKVORTSOV, I. V. Orlets limestone—a valuable mineral supplement. (In Russian.) Soſſialist. Zhivotnovod. 12(7):90. July 1950. 49 So71 In animal nutrition.
- 13180 SMITH, E. L. Apple pomace silage. Gt. Brit. Min. Agr. Agriculture 57:328-332. Ref. Oct.1950. 10 G79J
- 13181 SMITH, E. L. Ensiling sugar beet tops. Brit. Farmer 28:8. Oct.31,1950. 281.8 B77
- 13182 SPITZER, R. R. Everyday nutrition for feed men; tips on counseling farmers about balanced rations. Feed Bag 26(12):47,49,74,97. Dec.1950. 389.78 F32
- 13183 SPITZER, R. R. Feed dealer should know importance of vitamin B. Milling & Feed 31(10):18. Oct.1950. 298.8 C162
- 13184 THOMAN, M. E. Formula — feed production. (Abs.) Amer. Miller & Processor 78(11):61-62. Nov. 1950. 298.8 Am32
- 13185 THOMAS, B., and ARMSTRONG, D. G. Crude fibre in feeding-stuff analysis. Fert. Feed. Stuffs & Farm Supplies J. 36:541-543. Ref. Sept.6,1950. 57.8 F413
- 13186 THOMSEN, J. Liquid from silage. (In Danish.) Andelsbladet 51:1404-1405. Nov.23,1950. 280.28 An2
- 13187 TRIBE, D. E. The behaviour of the grazing animal: a critical review of present knowledge. Brit. Grassland Soc. J. 5:209-224. Ref. Sept.1950. 60.19 B773
- 13188 USUELLI, F. Practical applications in animal industry research. (In Italian.) B. dell'Agr. 84(10):1-2. May 19,1950. 16 B87 Research in feeding and endocrinology.



13189 VOLANTI, U. In the feeding of livestock, simple feeds or compound feeds. (In Italian.) *Agr. Bresciana* 3(45):2. Nov.8,1950. 16 Ag89

13190 WANGERIN, A. Gedanken zur herbstfütter-nutzung. *Hannoversche Land- u. Forstwirt. Ztg.* 103: 841. Sept.23,1950. 18 H194

Feed conditions.

13191 WARD, A. L. Soybean and cottonseed meal. *Flour & Feed* 51(6):24. Nov.1950. 298.8 F66

13192 WEHRMANN, O. Die Eignung von gersten-futtermehl im Zusammenhang mit aktuellen beobach-tungen. *Hannoversche Land- u. Forstwirt. Ztg.* 103:711. Aug.12,1950. 18 H194

13193 WEISS, H. Die Bedeutung der Abfälle der Müllerei für die deutsche Viehwirtschaft. *Getreide, Mehl u. Brot* 4:208-209. Sept.1950. 298.8 G33

13194 ZELTER, S. Z. Les pommes de terre pour la production animale. *J. de la France Agr.* 6:1220. Nov.17/23,1950. 14 J829

13195 ZUBRILIN, A. A., MISHUSTIN, E. N., and KHARCHENKO, V. A. Silos [Silage]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 279 p. 60.7 Z8S

#### VETERINARY MEDICINE

13196 AABERG, H. C. Recommendations of the American Farm Bureau Federation for a national brucel-losis program. *Nowest. States Brucellosis Conf. Proc.* 1950:14-18. 1.972 A2B833

13197 BALDIZAN, R. E. Las enfermedades mas comunes en los animales y su tratamiento. *Caracas*, 1950? 26 p. 41 B193

13198 BINNS, W. Brucellosis eradication in the Inter-Mountain States. *Nowest. States Brucellosis Conf. Proc.* 1950:42-44. 1.972 A2B833

13199 BOGDASHEV, N. F. *Uchebnik dlia mladshogo veterinarnogo fel'dshera* [Textbook for junior veterina-rian's assistant]. Ed. 5, rev. *Moskva, Gos. Izd-vo Selkhoz Litry*, 1950. 896 p. (Uchebniki i Uchebnye Posobiia dlia Podgotovki Sel'skokhozhaiistvennykh Kadrov Massovoi Kvalifikatsii) 41 B6394

13200 CABOT, D. Control de enfermedades en los animales. *Tierra Libre (ser.2)* 14(8):9-10. Aug.1950. 8 T443

13201 DENYER, R. C. Hydatid disease. *N. S. Wales. Dept. Agr. Div. Anim. Indus. Dis. Anim. L.* 57,3 p. 1949. 41.9 N473D

13202 EBERTUS. Erfahrungen über die Wirkung des "HX". *Monatsh. f. Vetmed.* 5:261-262. Oct.1950. 41.8 M742

13203 EDGAR, G. Forage poisoning or botulism. *N. S. Wales. Dept. Agr. Div. Anim. Indus. Dis. Anim. L.* 55,3 p. 1950. 41.9 N473D

Due to *Clostridium botulinum*.

13204 EHRLICH, C. Die häufigsten wurmkrankheiten und ihre bekämpfung. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1307-1308, 1342-1343. Sept.21-28,1950. 18 L2346

Horses, cattle, sheep and swine.

13205 EISELE, C. W. Public health aspects of brucel-losis. *Nowest. States Brucellosis Conf. Proc.* 1950:49-50. 1.972 A2B833

13206 GALL, L. S., and HUHTANEN, C. N. Criteria for considering a bacterium isolated from the rumen as a bona fide rumen organism. (Abs.) *J. Anim. Sci.* 9:656. Nov.1950. 49 J82

13207 GINZBURG, A. Veterinary and bacteriological laboratory of Rostov Region. (In Russian.) *Veterinarifa* 27(8):55-57. Aug.1950. 41.8 V6426

13208 GIRARD, H., and others. Le virus O Norman-de. *Off. Internat. des Epizoot.* B. 33:477-493. Sept./Oct.1950. 41.8 O72

C. Mackowiak, F. Senthille, and E. Lelandais, joint authors.

Strain of foot-and-mouth disease virus.

13209 GONZALEZ CUBILLO, J. Diagnóstico de ges-tación en las hembras domésticas. *Cult. Mod.* 33:325-326. Sept.1950. 15 C89

13210 GRATZL, E. Ein Beitrag zur unspezifischen reiztherapie. (Klinische erfahrungen mit joceryl, chino-ceryl, quaiaceryl und albatrol.). *Wien. Tierärztl. Monatsschr.* 37:740-751. Ref. Nov.1950. 41.8 T345

13211 HAGEN, C. Opportunities of the agricultural press for furthering the Brucellosis Eradication Program. *Nowest. States Brucellosis Conf. Proc.* 1950:4-6. 1.972 A2B833

13212 HAMMERLER, W. Eukolin-Osip-ein Novalgin-ersatz. *Wien. Tierärztl. Monatsschr.* 37:784-785. Nov. 1950. 41.8 T345

13213 HAYES, F. Sale of sulfa drugs for poultry and animal use. *Assoc. Food & Drug Off. U. S. Q. B.* 14:151-153. Oct.1950. 389.9 As7Q

13214 HENDERSHOTT, R. A. Uniform standards, the basis for a national brucellosis eradication program. *Nowest. States Brucellosis Conf. Proc.* 1950:33-36. 1.972 A2B833

13215 HERSHLEY, G. Grange support for the Brucellosis Eradication Program. *Nowest. States Bru-cellosis Conf. Proc.* 1950:19-20. 1.972 A2B833

13216 JACOB, E. Parasiten-funde bei freilebenden tiern und ihre beziehung zur allgemeinen ökologie. *Deut. Tierärztl. Wchnschr.* 57:306-309. (Ref. Oct.1,1950. 41.8 D482

13217 JOSLAND, S. W. Salmonella infections of animals in New Zealand. *Austral. Vet. J.* 26:249-253. Ref. Sept.1950. 41.8 Au72

13218 KADLETZ, M. Programmatischer versuch zu einer haustier-konstitutionstypologie. *Wien. Tierärztl. Monatsschr.* 37:540-546. Ref. Aug.1950. 41.8 T345

13219 KARISCH. Neuere versuche über die bekämpf-ung der kokzidiose. *Tierärztl. Umschau* 5:293-294. Aug. 1950. 41.8 T445

13220 KLIMSHTEN, Floreshtskaja regional veteri-nary hospital [in Moldavia]. (In Russian.) *Veterinarifa* 27(8):54-55. Aug.1950. 41.8 V6426

13221 KNOBLAUCH, G. Untersuchungen über die eignung des curarins in der operativen kleintierpraxis. *Tierärztl. Umschau* 5:289-291. Ref. Aug.1950. 41.8 T445

13222 KOKURICHEV, P. I. Tuberkulez sel'skokhoz-faistvennykh zhivotnykh i mery bor'by s nim [Tubercu-losis of farm animals and measures for control]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 54 p. 41 K823

13223 KOLLER, R. Schilddrüse, thiouracil und thyro-proteine. 2. *Wien. Tierärztl. Monatsschr.* 37:768-778. Nov.1950. 41.8 T345

13224 KOROPOV, V. M. Materialy po patologiche-skoj fiziologii slunnykh zhelez [Materials on pathological physiology of the salivary glands]. *Moskva, Ministerstvo Sel'skogo Khozfaistva SSSR*, 1949. 249 p. 444 K843

13225 KRIEGLSTEINER, E. Ein neuer weg in der behandlung der enteritis (diarrhoischen zustände) der haustiere. *Tierärztl. Umschau* 5:294-295. Aug.1950. 41.8 T445

13226 LEASURE, E. E. Less danger for your live-stock. *Kans. Farmer* 87(20):14,17. Oct.21,1950. 6 K13

Veterinary medicine.

13227 LINDNER, A. F. Nitrit-vergiftungen bei menschen und tiern. *Tierärztl. Umschau* 5:285-288. Ref. Aug.1950. 41.8 T445

13228 LOUI, D. I think I've licked mastitis. *Prairie Farmer, Gen. Ed.* 122(21):1-2,45. Nov.4,1950. 6 P883

13229 MACDONALD, F. P. Brucellosis and rural health extension work. *Nowest. States Brucellosis Conf. Proc.* 1950:45-47. 1.972 A2B833

13230 MACHTS, K. Einige bemerkenswerte praxis-fälle. 1-3. *Wien. Tierärztl. Monatsschr.* 37:560-562. Aug.1950. 41.8 T345

1, Konkremeinte in den harnwegen beim schwein; 2, Pericarditis traumatica; 3, Drillungsgeburte und torsio uteri bei einer ziege.

13231 MATTESON, R. W. The prediction of success in veterinary medicine at Michigan State College. *Amer. Vet. Med. Assoc. J.* 117:452-453. Dec.1950. 41.8 Am3

13232 MERCHANT, I. A. Veterinary bacteriology and virology. Ed. 4. Ames, Iowa State Col. Press, 1950. 885 p. 448.2 M53

13233 MERCK AND CO. Annotated bibliography, penicillin in veterinary medicine. Rahway, N.J., 1950. 50 p. 241.71 M53An

13234 MIRRI, F. Towards true preventive medicine. (In Italian.) *Prog. Vet.* 5:545-546. Oct.15,1950. 41.8 P942



13235 MOLLIN, F. E. The American National Live-stock Association and the brucellosis program. Nowest. States Brucellosis Conf. Proc. 1950:21-22. 1.972 A2B833

13236 MOOSBRUGGER, G. A. L'incidence des produits chimiques présents dans les suspensions de virus aphteux sur l'activité de ce virus. Off. Internatl. des Epizoot. B. 33:462-473. Sept./Oct.1950. 41.8 Of2

13237 MORCOS, Z. Antibiotics in short and streptomycin-penicillin mixed before inoculation. Brit. Vet. J. 106:422-426. Ref. Nov.1950. 41.8 V643

13238 NORTHWESTERN STATES BRUCELLOSIS CONFERENCE, BOISE, 1950. Proceedings, September 7 and 8, 1950. n.p., U. S. Ext. Serv., 1950. 55 p. 1.972 A2B833

U. S. Bureau of Animal Industry cooperating.

13239 PETUNIN, F. A. Accomplishments of veterinary doctor, N. I. Moroshkin. (In Russian.) Veterinariya 27(8):57-58. Aug.1950. 41.8 V6426

13240 POLIAKOV, A. A. Theory and practice of veterinary disinfection. (In Russian.) Veterinariya 27(8):30-37. Aug.1950. 41.8 V6426

13241 PRISELKOV, A. M., KHATIN, M. G., and LUR'E, M. Z. Medicinal forms of DDT and benzene hexachloride. (In Russian.) Veterinariya 27(8):40-43. Aug.1950. 41.8 V6426

For treatment of animal skin diseases.

13242 RANKIN, J. F. The practicing veterinarian and his role in the brucellosis program. Nowest. States Brucellosis Conf. Proc. 1950:23-26. 1.972 A2B833

13243 RATH, E. Síntomas y cuadros anatómo-patológicos de las enfermedades del ganado en el Departamento de Puno. Rev. Agropecuaria del Perú 1(2):68-70. Apr./June 1950. 9.8 R322

13244 REVEREND, J. A. La gestación prolongada o abreviada es caso patológico. Rev. Agr. y Ganad. 12(127):8-9. Aug.1950. 9.4 R327

Animals.

13245 RIEMENSCHNEIDER, M. N. The Colorado Brucellosis Program. Nowest. States Brucellosis Conf. Proc. 1950:30-33. 1.972 A2B833

13246 ROBINSON, G. E. G. The proper development of young animals. Worcestershire Agr. Chron. 18:283, 285, 287, 289. Aug./Oct.1950. 10 W892

13247 ROCHMANN, R. Trichinosis is a danger that should and will be removed. (In Norwegian.) Norsk Pelsdyrbl. 24:283-284. Sept.5, 1950. 41.8 D812

Control of rats chiefly.

13248 ROENTOE, F. K. W. The Veterinary Institute (Balai Penjelidikan Penjakit Chewan) at Bogor, Java, (Indonesia). Organ. Sci. Res. Indonesia. O. S. R. News 2:74-93. Ref. July 1950. 330.9 Or3Ae

13249 ROLLE, M. Die nicht ansteckenden jungtierkrankheiten. Tierärztl. Umschau 5:273-276. Ref. Aug. 1950. 41.8 T45

13250 RUIZ CASTAÑEDA, M. Brucellosis. Annu. Rev. Microbiol. 4:331-342. Ref. 1950. 448.3 An72

13251 SCHULTZ, H. Amino-Weidner in der veterinär-chirurgie. Deut. Tierärztl. Wchnschr. 57:301-303. Oct.1, 1950. 41.8 D482

13252 SEREBRIAKOV, P. N. Uchenie I. P. Pavlova i fiziologiya sel'skokhoziaistvennykh zhivotnykh [I. P. Pavlov's teaching and the physiology of farm animals]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 125 p. 444 Se62U

13253 SIEBERT, G., LANG, K., and CORBET, A. Über das pH-optimum der desoxyribonuclease verschiedener tierarten. Biochem. Z. 320:418-421. 1950. 384 B522

13254 SIMMS, B. T. Control of brucellosis in the United States. Washington, U. S. Bur. Anim. Indus., 1950. 6 p. 1.972 A2S14

Speech before the Inter-American Congress on Brucellosis, Washington, D. C., Nov. 9, 1950.

13255 SKRIABIN, K. I., and others. Kratkiy kurs parazitologii domashnikh zhivotnykh [Short course in parasitology of domestic animals]. Ed. 6, rev. and enl. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 420 p. (Uchebniki i Uchebnye Posobiya Dlya Sel'skokhoziaistvennykh Tekhnikumov) 436 Sk6K

A. M. Petrov, I. V. Orlov, A. A. Markov, A. A. Tsaprun, and V. A. Saliaev, joint authors.

13256 SROKA, K. Von berufskrankheiten im umgang mit tieren, von tierhaltung und tierpflege. Deut. Tierärztl. Wchnschr. 57:208-211. July 1, 1950. 41.8 D482

13257 STOEbbe, E. Eine verbesserte methode zum nachweis von leberegeleiern. Monatsh. f. Vetmed. 5:295. Nov.1950. 41.8 M742

13258 STOENNER, H. G. Brucellosis studies in Utah. Nowest. States Brucellosis Conf. Proc. 1950:47-49. 1.972 A2B833

13259 SVINTH, F. F. Area brucellosis eradication in Grays Harbor County, Washington. Nowest. States Brucellosis Conf. Proc. 1950:26-28. 1.972 A2B833

13260 TASCHEN-kalender für tierzüchter, v. 26, 1950. Hannover, 1949. 152 p. 41.8 T18

Veterinary medicine.

13261 THIERY, J. P. Essais de conservation du vaccin anti-aphteux à différentes températures. Off. Internatl. des Epizoot. B. 33:474-476. Sept./Oct.1950. 41.8 Of2

13262 TOMME, M. F., ed. Krovopuskaniya s tsel'yu uluchsheniya otkorma sel'skokhoziaistvennykh zhivotnykh [Blood letting with the purpose of improving the nutrition of farm animals]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 151 p. 444 T59K

13263 U. S. LIVESTOCK SANITARY ASSOCIATION. COMMITTEE ON BRUCELLOSIS. What is known about brucellosis. Columbus, 1949. 32 p. 41 Un3223

In man and animals.

13264 VERNIA, L. C., HERRERO, F. J., and AIQUEI, F. Nuevo método para diferenciar "brucellas." Arch. de Farm. y Bioquím. de Tucumán 4:327-332. Ref. 1950. 396.8 Ar24

English summary.

13265 VILLENEUVE, P. Le fléau de la brucellose. B. des Agr. 46(12):13. Dec.1950. 7 B872

In man and animals.

13266 WAECHTER, R. P. Veterinary medicine in Saskatchewan. Canad. Cattlemen 13(10):24-25. Oct.1950. 49 C16

13267 WEGSCHEIDER, A. Über versuche mit follikelhormon in der veterinärmedizin. Wien. Tierärztl. Monatsschr. 37:556-560. Aug.1950. 41.8 T345

13268 WHITE, V., and JENSEN, K. E. Animal disease control in Sweden. Amer. Agr. 147:602,605. Nov.4, 1950. 6 Am3

## MISCELLANEOUS

13269 ARCÉS, J. D'. La Station Expérimentale d'Elevage d'Algérie; ce qu'elle est—ce qu'elle doit être. Voix des Colons 32(1573):1,3. (To be cont.) Sept.11, 1950. 24 V85

13270 BLACKLEY, S. R. A frustrated industry; urgent need for improvement and rebuilding of slaughterhouses [Great Britain]. Farmer & Stock-Breeder 64:2955,2964. Nov.21, 1950. 10 F228

13271 BOHSTEDT, G. Three-dimensional kodachrome transparencies as visual aids in teaching animal husbandry courses. (Abs.) J. Anim. Sci. 9:641. Nov. 1950. 49 J82

13272 BREITFELD. Die hannoverschen zuchten auf der DLG-Schau Frankfurt. Hannoversche Land- u. Forstwirt. Ztg. 103:605-607. July 1, 1950. 18 H194

13273 BREITFELD. Was den tierzüchter auf der DLG-Schau in Frankfurt sonst noch interessierte. Hannoversche Land- u. Forstwirt. Ztg. 103:643. July 15, 1950. 18 H194

13274 BUTTAZZONI, G. Livestock shows. (In Italian.) Agr. Bresciana 3(43):2. Oct.25, 1950. 16 Ag89

13275 DOROFYEV, S. State pedigree farms; purebred livestock in the USSR. Agr. & Indus. Life 12(10):18. Oct.1950. 25 Ag8

13276 DÜRRWAECHTER. Eindrücke von der ersten österreichischen bundesviehschau in Wels. Tierzüchter 2:500-503. Oct.5, 1950. 49 T445

13277 ECKHOFF, H. Der gegenbesuch. Tierzüchter 2:530-533. Oct.20, 1950. 49 T445

The livestock industry in Bavaria.

13278 FIRSOVA, N. K. Livestock raisers—experimenters in Kuban Area. (In Russian.) Softsalist. Zhivotnovod. 12(6):31-33. June 1950. 49 So71

13279 GASSNER. Abhärtung der tiere im winter. Allgäuer Bauernbl. 18:661. Nov.9, 1950. 18 AL53

13280 GOERTLER. Gesunderhaltung unserer nutztiere. Deut. Landwirt.-Gesell. Arb. (n.s.):6:50-64. June 1949. 18 D48



- 13281 GOLJARKIN, F. E., and FILIPPOV, I. U. F. Reindeer farming on Sakhalin. (In Russian.) *Sotsialist. Zhivotnovod.* 12(7):74-78. July 1950. 49 So71
- 13282 GROTE, J. F. Some suggestions by an expert—improvement of livestock shows. *Sheep & Goat Raiser* 31 (2):62-63,74. Nov.1950. 45.8 Sh3
- 13283 HARGREAVES, J. E., and SEATON, S. H. The County Show at Blackpool; impressive stock displays reviewed. *Roy. Lancashire Agr. Soc. J.* 1950:29-45. 10 L22
- 13284 HIGGS, C. Work of the Animal Health Trust. *Country Life* [London] 108:1512,1514. Nov.3,1950. 80 C83
- National Agricultural Advisory Service.
- 13285 HOMAN, J. The Cremona show in the Po plain of northern Italy. (In Dutch.) *Drents Landtbl.* 31(40):3. Oct.14,1950. 12 D812
- Livestock.
- 13286 IJRMALIAT, A. P. Organization of mass experimentation in animal industry. (In Russian.) *Sotsialist. Zhivotnovod.* 12(6):26-30. June 1950. 49 So71
- 13287 MARLOW, V. La mejora del ganado en las granjas aisladas. *Ceres* [Valladolid] 14(172):23. Oct.1, 1950. 15 C33
- Research in Scotland.
- 13288 NEWELL, P. F. Which will it be: cattle, hogs, or sheep? *Prog. Farmer, Miss.-Ark.-La. Ed.* 65(11):18, 143. Nov.1950. 6 So81
- 13289 OERTZEN, H. U. V. Die Westfalenschau in Hamm. *Tierzüchter* 2:504-507. Oct.5,1950. 49 T445
- 13290 PHILLIPS, R. W. El ganado y la conservación de recursos naturales. *Hacienda* 45(11):51-52,54. Nov. 1950. 6 H11
- Judging and breeding.
- 13291 PROBLEMS, techniques, and experimental designs in animal investigations; a symposium presented at the 1949 meeting of the American Society of Animal Production. *J. Anim. Sci.* 9:461-483. Ref. Nov.1950. 49 J82
- Introduction, by the Committee on Investigations: W. M. Beeson, L. J. Bratzler, G. E. Dickerson (chairman), C. W. Kincaid, C. E. Terrill; Nutrition and pasture, by E. W. Crampton; Meat evaluation and processing, by D. E. Brady; Physiology, by L. E. Casida; Animal breeding, by L. N. Hazel.
- 13292 PSHENICHNYI, P. D. On developing endurance in farm animals. (In Russian.) *Sovet. Zootekh.* 5(8):1-7. Aug.1950. 49 So822
- Chiefly on raising young animals in unheated quarters.
- 13293 SCHNEIDER, K. T. Die tiere auf der "Royal Show" 1950 in Oxford. *Tierzüchter* 2:527-530. Oct.20, 1950. 49 T445
- 13294 SERGEEV, M. A. Development of northern reindeer farming. (In Russian.) *Sotsialist. Zhivotnovod.* 12(7):61-70. July 1950. 49 So71
- 13295 SPERA, L. How to photograph animals. (In Italian.) *Terra e Sole* 98:339-340. Oct.1950. 16 T273
- 13296 TERENCEV, S. M. Verblüd i ukhod za nim [The camel and its care]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 93 p. 40 T27V
- 13297 TÜRDENEV, A. P. Reindeer farm of Stalin Kolkhoz [in Chukot National District]. (In Russian.) *Sotsialist. Zhivotnovod.* 12(7):71-73. July 1950. 49 So71
- 13298 TOMME, M. F., and NOVIKOV, E. A. Obshchaya zootehnika [General zootechnics]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 472 p. (Uchebniki i Uchebnye Posobia dlia Sel'skokhoziaistvennykh Tekhnikumov) 40 T590
- 13299 TRELANZI, C. Survey of suppression of cruelty to animals. (In Italian.) *Allevatore* 6(35):7. Sept.3,1950. 49 AL55
- 13300 VILLENEUVE, P. Un bon éleveur doit préparer l'hivernement de ses animaux. *B. des Agr.* 46(10):22. Oct.1950. 7 B872
- 13301 WALLA, H. Die tiere auf der ausstellung der Deutschen Landwirtschaftsgesellschaft in Frankfurt am Main. *Pflug* 3:158-161. Aug.1950. 19 P48
- 13302 WINNIGSTEDT, R. Die Europäische Vereinigung für Tierzucht nimmt ihre arbeit auf. *Tierzüchter* 2:402-404. Aug.5,1950. 49 T445
- 13303 WINNIGSTEDT, R. Die landes-tierschau in Oldenburg vom 10. bis 17. September 1950. *Tierzüchter* 2:536-539. Oct.20,1950. 49 T445

## CATTLE

## Breeds and Breeding

- 13304 ARMENIA. GOSUDARSTVENNAIA INSPEKTSIA PO PLEMENNOMU DELU. Gosudarstvennaia plemennai kniga krupnogo pogatogo skota shvitskoi porody [State pedigree book of Swiss cattle, v. 4, pt. 1]. Erevan, Armgiz, 1949. 504 p. 43.9 Ar5
- 13305 ARNOLD, F. J. Story County [Iowa] bull association. *Guernsey Breeders' J.* [Peterborough] 80:1004-1005,1033. Nov.15,1950. 43.8 G93
- Story County Cooperative Guernsey Breeders' Association.
- 13306 ASHER, T., and KAEMMERER, K. Versuche zur spermaphysiologie (unter besonderer berücksichtigung des peristons). *Z. f. Tierzücht. u. Züchtbiol.* 58:351-364. Ref. Mar.1950. 442.8 Z35
- Bulls and dogs.
- 13307 AUSTRALIAN JERSEY HERD SOCIETY. Jerseys. *Austral. Junior Farmer* 3:5-17. Sept./Oct. 1950. 23 Au782
- 13308 AYRSHIRE CATTLE HERD BOOK SOCIETY OF AUSTRALASIA. The Ayrshire herd book of Australasia; containing pedigrees of bulls, cows and heifers of the Ayrshire breed, v. 41. Melbourne, Hearne, 1949. 240 p. 43.9 Ay76
- 13309 BAILEY, J. W. Now that you own a good bull (1) use him with discretion; (2) feed him with common sense; (3) protect him with care; (4) treat him with respect. *Guernsey Breeders' J.* [Peterborough] 80:998-999, 1032. Nov.15,1950. 43.8 G93
- 13310 BAILEY, J. W. When bulls are sterile. *Hoard's Dairymen* 95:810. Nov.10,1950. 44.8 H65
- 13311 BAILEY, J. W. When cows won't "settle." *Hoard's Dairymen* 95:846. Nov.25,1950. 44.8 H65
- Fertility.
- 13312 BAKER, M. L., BLUNN, C. T., and OLOUFA, M. M. Stumpy, a recessive achondroplasia in Shorthorn cattle. *J. Hered.* 41:243-245. Sept.1950. 442.8 Am3
- 13313 BATTLES, O. V. Angus progress in the West. *West. Livestock J.* 28(59):37. Oct.15,1950. 6 F2278
- 13314 BECKER, R. B., and ARNOLD, P. T. D. Turn-over of dairy bulls in artificial insemination. *Guernsey Breeders' J.* [Peterborough] 80:1015-1016. Nov.15,1950. 43.8 G93
- 13315 BELLING, B. Great interest for the Red Danish milk breed in USA. (In Danish.) *Dansk Landbr.* 69:424-425. Aug.17,1950. 280.28 V91
- 13316 BENSON, R. H., and TYLER, W. J. Evaluating the inheritance of butterfat production of young dairy sires from their pedigrees. (Abs.) *J. Anim. Sci.* 9:634. Nov.1950. 49 J82
- 13317 BIRMINGHAM, A. R. Registration and transfer of pure-bred Aberdeen-Angus cattle. *West. Livestock Rptr.* 1950(annu. dir. no.):29. Oct.15,1950. 286.85 W523
- 13318 BLASGE, V. Warum zuchtwahl nach fettprozenten? *Kärntner Bauer* 100:310-312. Sept.1,1950. 19 K14
- 13319 BONFERT, A. Sterilitätsbekämpfung im zusammenhang mit der besamung von rindern. *Deut. Tierärztl. Wchnschr.* 57:205-208. July 1,1950. 41.8 D482
- 13320 BOTTING, H. L. Red-and-white Friesians. *Lincoln Col. Rur. Educ. B.* 5:106-109. Aug.1950. 109 C162
- 13321 BUCKNER, P. J., and WILLETT, E. L. Correlation between various tests of semen quality and bull fertility. (Abs.) *J. Anim. Sci.* 9:677. Nov.1950. 49 J82
- 13322 BUIATTI, P. G. Organisation de l'amélioration par sélection des bovins destinés à la boucherie et au travail dans les entreprises agricoles en Toscane. *France. Min. de l'Agr. B. Tech. d'Inform.* 50:403-411. June 1950. 14 F844B
- 13323 BULLS! (panel discussion). *Guernsey Breeders' J.* [Peterborough] 80:1007-1014. Nov.15,1950. 43.8 G93
- W. D. Knox, moderator, K. C. Sly, C. T. Allen, R. W. Coarsey, D. H. Kingston, and L. R. Rainey.
- 13324 BYCHKOV, N. P. Increasing the fat content of milk of East-Friesian cattle. (In Russian.) *Sovet. Zootekh.* 5(8):18-23. Aug.1950. 49 So822
- Chiefly on breeding.
- 13325 CANADIAN GUERNSEY BREEDERS' ASSOCIATION. The Canadian Guernsey herd book, v. 8. Ottawa, Canadian National Live Stock Records, 1950. 549 p. 43.9 C166



- 13326 CARRON, M. A. Un centre d'insemination artificielle dans la Creuse. *Études Rhodaniennes* 25:309-310. 1950. 473 Et8  
Cattle.
- 13327 CHALUMEAU, P. Mensurations relevées sur la race bovine N'Dama au Senegal; étude statistique. 1. French West Africa. *Insp. Gén. de l'Élevage, B. des Serv. de l'Élevage et des Indus. Anim.* 2(4):7-34. Oct./Dec. 1949. 41.9 F88B
- 13328 CHIEFFI, A. How to improve the low percentage of calf births. (In Portuguese.) *Rev. Agron. [Pôrto Alegre]* 14:62. Apr./June 1950. 9.2 R325
- 13329 COURT, T. J. C. British breeds of livestock. III. The Hereford. *Brit. Agr. B.* 3:98-102. Summer 1950. 10 B776
- 13330 DALY, J. L. Visite du Centre d'Insemination Artificiel des Bovins de Charmoy et d'une ferme dans le département de L'Yonne. (Extr.) *Rev. Agr. de la Nouvelle-Calédonie (n.s.)* 1(7/8):8-11. July/Aug. 1950. 25 R322
- 13331 DAVIDSON, J. B. The intensification of Brownale blood. *Shorthorn News* 11(3):7-8. Sept. 1950. 43.8 Sh85  
Pedigree of inbred Shorthorn bull.
- 13332 DIXON, E. W. Improvement in Dairy Shorthorns. *Austral. Farm & Home* 59(10):82. Oct. 2, 1950. 23 Au7
- 13333 DIXON, E. W. Nara Dairy Shorthorn stud. *Austral. Farm & Home* 59(8):78. Aug. 1, 1950. 23 Au7
- 13334 DOMINGUES, O. Cross with Zebus or with common mestizos? (In Portuguese.) *Seleç. Agr.* 5(53):11-13. Sept. 1950. 9.2 Se4  
Brazil.
- 13335 DOORME, H. L'insémination artificielle du bétail bovin en Flandre Orientale. *Rev. de l'Agr.* 3:917-939. Sept. 1950. 13 R322  
English summary.
- 13336 EASLEY, G. T. Infertility in cattle. II. Haver-Glover Messenger 30(11/12):8-10. Nov./Dec. 1950. 41.8 H29
- 13337 EASTERBROOKS, H. L., and others. Comparative fertility of diluted bull semen treated with calcium chloride complex streptomycin or dihydro streptomycin sulfate. *J. Dairy Sci.* 33:851-852. Nov. 1950. 44.8 J822  
P. Heller, W. N. Plastringer and E. L. Jungherr, joint authors.
- 13338 EASTERBROOKS, H. L., and others. Fertility of diluted bull semen containing 100 micrograms of streptomycin per milliliter. *J. Dairy Sci.* 33:737-740. Oct. 1950. 44.8 J822  
P. Heller, W. N. Plastringer, E. L. Jungherr, and F. L. Elliott, joint authors.
- 13339 EDWARDS, J. Breeding for milk. *Austral. Dairy Rev.* 18(10):10. Oct. 2, 1950. 44.8 Au73
- 13340 EHLERS, M. H., and ERB, R. E. The relationship of motility rating under storage for six days at 38 F. to the fertilizing capacity of bull semen. (Abs.) *J. Anim. Sci.* 9:678-679. Nov. 1950. 49 J82
- 13341 EMBLETON, I. Breed the best to the best and breed them better. *Jersey B.* 69:1845, 1935-1936. Nov. 25, 1950. 43.8 J48
- 13342 ENGELER, W. Fruchtbare und langlebige kühe beim schweiz. Braunvieh. *Grüne* 78:1039-1045. Sept. 22, 1950. 17 Sch9
- 13343 ESKEDAL, H. W. Breeding better dairy cattle; the work of Danish bull-testing stations. *Dan. Foreign Off. J.* 1950(3):25-28. July/Sept. 1950. 286.8 D22
- 13344 FIGUEROA INFANTE, J. Bovinotécnia y zootécnia. *Vida Agr. [Lima]* 27:625, 627, 629-630. Aug. 1950. 9.8 V66  
Genetics.
- 13345 FINCH, F. A. More about Zebus. *Rev. River Plate* 108(3054):29. Oct. 20, 1950. 286.8 R32
- 13346 FINCHAM, R. C. What is a proved sire worth? *Hoard's Dairyman* 95:907, 931. Dec. 25, 1950. 44.8 H65
- 13347 FLOWER, A. E., and WILLSON, F. S. Where can I buy indexed bulls? *Mont. Stockgrower* 22(10):22-24. Oct. 15, 1950. 49 M76
- 13348 FOOTE, R. H., and BRATTON, R. W. Motility of bovine spermatozoa and control of bacteria at 5 and 25° C. in extenders containing sulfanilamide, penicillin, streptomycin and polymyxin. *J. Dairy Sci.* 33:842-846. Nov. 1950. 44.8 J822
- 13349 FORBES, R. C. Goal—more profitable beef tonnage. *Shorthorn World* 35(16):5, 32. Nov. 10, 1950. 43.8 Sh8  
Shorthorn.
- 13350 FOSTER, A. S. When is a bull proved? *Va. Dairyman* 13(10):5-6. Nov. 1950. 44.8 V81
- 13351 FOWLER, H. G. Some ideas on a breeding programme. *Canad. Jersey Breeder* 5(10):11, 39-44. Oct. 1950. 43.8 C165
- 13352 GALVIN, P. J. Better blacks—Essar builds them. *Tex. Livestock J.* 9(9):22, 36, 40, 48. Sept. 1950. 49 T29  
Breeding of Aberdeen-Angus cattle.
- 13353 GAUMET, R., PILANDON, R., and ARGAILLOT L. L'engraisement à l'étable des bovins Charolais en Forterre. France. *Min. de l'Agr. B. Tech. d'Inform.* 53:603-621. Oct. 1950. 14 F844B
- 13354 GAUSTAD, M. Infertility in cattle. (In Norwegian.) *Buskap og Avdrått* 1950(3):11-15. 49 B96  
Chiefly on infectious diseases of the sex organs.
- 13355 GELDOLF, W. Origin of the Dutch Belted. (In Dutch.) *Plattelands-Post* 6(37):1. Sept. 23, 1950. 12 P69
- 13356 GODDARD, S. A. The Brahman crosses. *Farm Q.* 5(4):32-35, 122-123, 125-127. Winter 1951. 6 F22995
- 13357 GOLDING, G. Why sires become sterile—and what can be done about it. *West. Dairy J.* 7(2):11, 28, 31-32. Dec. 1, 1950. 44.8 W524
- 13358 GREVE SILVA, G. Inscripción de bovinos Overos Colorados descendientes de Overos Negros. *Agrario* 15(415):29-30. (Concl.) Aug. 1950. 9.3 Ag85
- 13359 GROVES, P. K. Shorthorn pedigree registration. *West. Livestock Rptr.* 1950(annu. dir. no.):42. Oct. 15, 1950. 286.85 W523
- 13360 HÅKANSSON, R. Interesting crossing experiments at Beltsville, USA. (In Swedish.) *Ladugården* 1950(9):261-263. Sept. 1950. 44.8 L12  
Cattle.
- 13361 HAMMOND, J. Polled cattle. II. Artificial dehorning and producing polled breeds. *Westralian Farmers Co-op Gaz.* 19:155, 157-158. Sept. 1950. 280.28 W522
- 13362 HANKÓ, B. Ursprung und geschichte des altungarischen, silbergrauen langhörnigen steppenrindes. *Z. f. Tierzücht. u. Züchtbiol.* 56:271-297. Ref. Mar. 1950. 442.8 Z35
- 13363 HARVEY, W. R., and LUSH, J. L. Genetic correlation between type and production in Jerseys. (Abs.) *J. Anim. Sci.* 9:638. Nov. 1950. 49 J82
- 13364 HELMAN, M. B. Aptitudes de la raza Holando Argentina. *Soc. Rur. Argentina. An.* 84(7):28-33, 65. July 1950. 9 So1
- 13365 HENRIKSSON, A. Mate heifers with younger bulls. (In Swedish.) *Ladugården* 1950(7):209-210. July 1950. 44.8 L12
- 13366 HERD-BOOK NORMAND. La race bovine normande; rusticité, fécondité, lait, beurre, viande. Caen, 1949. 24 p. 43 H412  
Also Spanish edition. 42 H412As
- 13367 HERNÁNDEZ ROA, A. Así se portan los cruces de cebú. *Rev. Ganad. [Habana]* 10(10):37. Oct. 1950. 49 R321
- 13368 HERNÁNDEZ ROA, A. Zebu cattle in Cuba. *Zebu J.* 2(4):14-15, 42. Sept. 1950. 43.8 Z12
- 13369 HIRSCH, D. E. Challenge to dairy breeding co-ops. *News Farmer Coop.* 17(9):12-14. Dec. 1950. 166.2 N47
- 13370 HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA. Holstein-Friesian herd-book, containing a record of all Holstein-Friesian cattle approved and admitted for entry since the close of the last volume, v. 114 Brattleboro, 1950. unpaged. 43.9 H74
- 13371 HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA. Type ratings by sires, compiled from the official classification records of the Holstein-Friesian Association of America [1944 thru Sept. 30, 1949]. Brattleboro, 1950. 650 p. 43.9 H74Ty
- 13372 HULTINE, A. Line breeding aids breeder; the more good genes or good inheritance back of each animal, the more certain we can be of better offspring. *Shorthorn World* 35(17):41-42. Nov. 25, 1950. 43.8 Sh8
- 13373 JACOBS, W. S. The genetics of breed building. *Zebu J.* 2(5):8. Oct. 1950. 43.8 Z12  
Cattle.



- 13374 JEPMA, J. Autumn bull inspection at Leeuwarden. (In Dutch.) *Overijsselsch Landtbl.* 32(1575):7. Oct.21,1950. 12 Ov2
- 13375 JOHNSON, A. R. Further inflation calls for increase in breeding herds. *Polled Hereford World* 4(11):8. Nov.1950. 43.8 P76
- 13376 JOHNSTON, J. E., and MIXNER, J. P. Relationship of hyaluronidase concentration to fertility of dairy bull semen. *J. Dairy Sci.* 33:847-850. Ref. Nov. 1950. 44.8 J822
- 13377 KAFKA, H. The ratio of male and female calves produced by natural breeding and artificial insemination. *Amer. Vet. Med. Assoc. J.* 117:454-455. Dec. 1950. 41.8 Am3
- 13378 KEEPERS, W. F. Handling the dairy bull. *Jersey B.* 69:1853. Nov.25,1950. 43.8 J48
- 13379 KEHREN. Gegenwarts- und zukunftsfragen der deutschen rotbuntzucht. *Tierzüchter* 2:476-478. Sept.20, 1950. 49 T445
- 13380 KENNEDY, C. The Boone County blacks; this Iowa community famous for top steers. *Aberdeen-Angus J.* 32(4):42,67-68,70. Nov.1950. 43.8 Ab3
- 13381 KIDWELL, J. F., GREGORY, P. W., and GUILBERT, H. R. A genetic investigation of certain allometric growth constants in Hereford cattle. (Abs.) *J. Anim. Sci.* 9:638-639. Nov.1950. 49 J82
- 13382 KIENER. Pourquoi n'y a-t-il pratiquement pas de centres d'insémination artificielle en Suisse? *Bétail & Basse-Cour* 5:426-427. Nov.1950. 49 B462
- 13383 KNAPP, B., JR., and CLARK, R. T. Revised estimates of heritability of economic characteristics in beef cattle. *J. Anim. Sci.* 9:582-587. Nov.1950. 49 J82
- 13384 KNOPFF. Blutilnien und inzucht in der rindviehzucht. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1305. Sept.21,1950. 18 L2346
- 13385 KNOPFF. Die schwarzbuntschau in Hamm ein grosser erfolg! *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1238-1239. Sept.7,1950. 18 L2346
- 13386 KOLESNIK, N. N. Evoliutsiia krupnogo roga-togo skota [Evolution of cattle]. Stalinabad, Tadzhikskiy Filial Akademii Nauk SSSR, 1949. 328 p. (Akademifia Nauk SSSR. Tadzhikskiy Filial. Trudy. t.24) 43 K832
- 13387 KOOMEN. The Schwarzbunt cattle in Gelderland. (In Dutch.) *Drents Landtbl.* 31(44):8-9. Nov.11, 1950. 12 D812
- Also in *Gelders Landtbl.* 13(44):8. Nov.11,1950. 12 G282; *Groninger Landtbl.* 28(44):8-9. Nov.11,1950. 12 G892.
- 13388 KORPRICH, M. Weg und ziel der Allgäuer Herdebuchgesellschaft Kempen in der erbwertforschung. *Tierzüchter* 2:405. Aug.5,1950. 49 T445
- Cattle.
- 13389 LAGERLÖF, N. Untersuchungen über die unfruchtbarkeitsfrequenz bei schwedischen bullen während der jahre 1928-1949. *Deut. Tierärztl. Wehnschr.* 57:320-322. Oct.15,1950. 41.8 D482
- 13390 LINCOLN RED SHORTHORN SOCIETY. *Lincoln Red herd book*, v. 50. Hull,1950. 397 p. 43.9 L632
- 13391 MCGREW, C. D. High fat test—does it pay? *Hoard's Dairyman* 95:835. Nov.25,1950. 44.8 H65
- In relation to artificial breeding.
- 13392 MARKUSHIN, A. P. Utilization of pedigree bulls for many years. (In Russian.) *Sotsialist. Zhivotnovod.* 12(7):32-41. July 1950. 49 So71
- 13393 MERCIER, E. L'épreuve de progéniture dans le choix du jeune taureau laitier. *Digeste de l'Eleveur* 4 (9,1.e.10):12-19. June 1950. 49 D56
- 13394 MERKEL, H. Die rinderbesamung in Deutschland. *Deut. Tierärztl. Wehnschr.* 57:327-328. Oct.15, 1950. 41.8 D482
- 13395 MERLI, V. Provincial center for the artificial insemination of dairy cattle. (In Italian.) *Rinascita Agr.* 5(11):2. Apr.1,1950. 281.8 R47
- Italy.
- 13396 MESCHINI, C. The great annual Romagnola review at Ravenna. (In Italian.) *Allevatore* 6(37):3. Sept.17,1950. 49 AL55
- 13397 METIVIER, H. V. M. The improvement of cattle and horsekind in the colony of Trinidad and Tobago. *Agr. Soc. Trinidad & Tobago. Proc.* 50:133-135,137,139-141,143. June 1950. 8 T73
- 13398 MOHLER, M. A. Advanced registry Red Poll bloodline analysis for 1949. *Red Poll News* 14(5):30,52-53. Sept.1950. 43.8 R245
- 13399 MONTANARI, V. The livestock problem of Venezia; nuclei of selection of cattle breeds and their development. II. (In Italian.) *Allevatore* 6(36):3. Sept.10, 1950. 49 AL55
- 13400 MONTI, A. Pure breeding and hybridization. (In Italian.) *Campagna Milan.* 1950(6):1-2. Mar.31, 1950. 16 C153
- Comment by E. Ferrari.  
Cattle.
- 13401 NESS, A. R. Breeding records pay off. *Macdonald Col. J.* 11:2,4. Sept.1950. 101 M144
- Dairy cattle.
- 13402 NEWMAN, P. E. Is it good enough for the bull? *Guernsey Breeders' J.* [Peterborough] 80:995-997. Nov.15,1950. 43.8 G93
- Care and feeding.
- 13403 NORDYKE, J. W. Breeding better bulls artificially. *Jersey B.* 69:1844,1938. Nov.25,1950. 43.8 J48
- 13404 OLDS, D., and SEATH, D. M. Predictability of breeding efficiency in dairy cattle. *J. Dairy Sci.* 33:721-724. Oct.1950. 44.8 J822
- 13405 OVSIANNIKOV, F. G. Improving the pedigree characteristics and productivity of Tatarslav cattle. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok.* 11:130-133. 1949. 20 M857
- 13406 PALSSON, E. Arrangement for exercise for artificial insemination bulls. (In Swedish.) *Ladugården* 1950(7):206-208. July 1950. 44.8 L12
- 13407 PARKER, J. B. Viehkreuzung in den USA. *Allgäuer Bauernbl.* 18:665. Nov.9,1950. 18 AL53
- 13408 PENTECOST, E. Breeding of polled cattle. *Field* 196:727-728. Oct.28,1950. 10 F45
- Lincolnshire Red.
- 13409 PERKINS, S. The Southwest needs more reds, whites and roans. *Shorthorn World* 35(17):30-31. Nov.25, 1950. 43.8 Sh8
- 13410 PHIPPS, H. Comprar un buen toro significa una economia real. *Soc. Rur. Argentina. An.* 84(7):20-21, 72. July 1950. 9 So1
- 13411 PICCHI, A. Healthy bulls and prolific cows. (In Italian.) *Agr. Tosc.* 5:415-417. Nov.1950. 16 Ag827
- Care of cattle.
- 13412 PLATTENTEICH, W. Aus dem unvergessenen osten; erinnerungen an die Ostpreussische Herdbuch-Gesellschaft e. V. Königsberg-Pr. *Tierzüchter* 2:453-455. Sept.5,1950. 49 T445
- Cattle.
- 13413 PONS FLORIT, J. Razas bovinas de carne; la Durham o Shorthorn. *Balearic Isl. Diputación Prov. B. de Agr.* 72:4-5. Sept.1950. 15 B19
- 13414 PROVAN, A. L. Good bulls and good grass. *Farmers Wk. [London]* 33(19):51. Nov.10,1950. 10 F2228
- Solids-not-fat content of milk.
- 13415 RED POLL CATTLE SOCIETY. The Red Poll herd book of cattle descended from the Norfolk and Suffolk Red Poll, v. 66, 1949. Ipswich,1950. 897 p. 43.9 R24H
- Includes Grading register, v.5.
- 13416 REECE, R. P. Sires—of tested sires. *Jersey B.* 69:1846-1847. Nov.25,1950. 43.8 J48
- 13417 RENDEL, J. M., and ROBERTSON, A. Artificial insemination in dairy cattle breeding. *Scot. Agr.* 30:79-83. Autumn 1950. 10 Sco82So
- 13418 RICHARDSON, T. C. Texas cattlemen blend breeds for stock to fit Southwestern range conditions. *Farmer-Stockman* 53(11):9,44. Nov.1950. 6 Ok45
- 13419 ROYAL GUERNSEY AGRICULTURAL AND HORTICULTURAL SOCIETY. The herd book of the Bailliwick of Guernsey (Guernsey Branch), v. 60. Guernsey, 1950. unpagd. 43.9 G93
- 13420 RUSSEL, M. L. "This is how it was"; Ramie Delatte recalls the early history of the Bos indicus breeds in Louisiana probably far better than any other living man. *Zebu J.* 2(5):6,36. Oct.1950. 43.8 Z12
- 13421 SCHAUS, R. Safety first—watchword for bulls. *West. Dairy J.* 7(2):9,55. Dec.1,1950. 44.8 W524
- Handling of bulls.
- 13422 SCHMIDT, J., MEHNER, A., and SCHELPER, E. Beobachtungen über leistung und futtersausnutzung bei drei Höhenrassen. *Z. f. Tierzücht. u. Züchtbiol.* 58:298-338. Mar.1950. 44.2.8 Z35
- Fleckvieh, Braunvieh and Hinterwälder.



13423 SCHRAEDER. Die westfälische Rotbuntzucht im Spiegel der Westfalenschau. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1311-1312. Sept. 21, 1950. 18 L2346

13424 SELL, C. Prof. Dr. Götze und die schleswig-holsteinischen rinderbesamungsvereine. Deut. Tierärztl. Wchnschr. 57:328-329. Oct. 15, 1950. 41.8 D482

13425 SHORTHORN SOCIETY OF THE UNITED KINGDOM OF GT. BRIT. AND IRELAND. Grading register of non-pedigree cattle of Shorthorn type, containing particulars of foundation cows and their female produce born on or before December 31, 1947, v. 30, 1947. London, 1950. 464 p. 43.9 Sh8G

13426 SHTEYMAN, S. I. Sovershenstvovanie molochnogo stada [Improvement in dairy herds]. Ed. 2, rev. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 102 p. 43 Sh8S

13427 SØNDERGAARD, A. R. Black variegated Danish dairy cattle. (In Danish.) Dansk Landbr. 69:449-450. Aug. 31, 1950. 280.28 V91

13428 STEGENGA, T. Artificial insemination in 1949. (In Dutch.) Netherlands. Landvoortlichtingsdienst. Maandbl. 7:318-332. Aug. 1950. 12 N383M

Cattle.  
13429 STEWART, R. D. Sire selection. Guernsey Breeders' J. [Peterborough] 80:991-992, 997. Nov. 15, 1950. 43.8 G93

13430 STONAKER, H. H., HAZALEUS, M. H., and WHEELER, S. S. Feedlot and carcass characteristics of Hereford steers of small and conventional types. (Abs.) J. Anim. Sci. 9:639. Nov. 1950. 49 J82

13431 TESTON, A. Observations and directions to farmers of Polesine on the occasion of the 2d Rovigo bull and bullock show. (In Italian.) Agr. del Polesine 2: 145-147. Oct. 1950. 16 Ag8222

13432 TORNEDE. Elite-absatzveranstaltung und stammtierschau der Rotviehzüchter. Tierzüchter 2:457-458. Sept. 5, 1950. 49 T445

13433 UBALDI, L. The Brown Swiss and the problem of milk. (In Italian.) Allevatore 6(35):7. Sept. 3, 1950. 49 AL55

13434 USHAKOV, V. A. Artificial insemination of cows. (In Russian.) Sotsialist. Zhivotnovod. 12(7):54-56. July 1950. 49 So71

13435 VAN CLEAVE, O. E. Artificial insemination, whither bound? New Zeal. Dairy Exporter 26(4):53, 55-56. Oct. 1950. 44.8 N484

Cattle.  
13436 VAN RENSBURG, S. W. J. Infertility in bulls. Farming So. Africa 25:271-272. Aug. 1950. 24 So842

13437 WATTS, R. M. Infertility in dairy cattle. Milk Bd. J. 1:476, 478. Sept. 15, 1950. 44.8 M5934

13438 WIJERS. The Rotbunt cattle in Gelderland and Overijssel. (In Dutch.) Drents Landtbl. 31(44):6-7. Nov. 11, 1950. 12 D812

Also in Groninger Landtbl. 28(44):6-7. Nov. 11, 1950. 12 G892; Overijsselsch Landtbl. 32(157):6-7. Nov. 11, 1950. 12 Ov2

13439 WILLET, M. D. J. The influence of the bull on the periods during which his descendants are borne. (In Dutch.) Landbk. Tijdschr. 636-646. Ref. Aug. 1950. 105.2 Or3

English summary.

13440 WILLEY, N. B., and others. The influence of type on feedlot performance and killing qualities of Hereford steers. (Abs.) J. Anim. Sci. 9:641. Nov. 1950. 49 J82

O. D. Butler, J. K. Riggs, J. H. Jones, and P. J. Lyerly, joint authors.

13441 WOODWARD, R. R., and CLARK, R. T. The repeatability of performance of several Hereford sires as measured by progeny records. J. Anim. Sci. 9:588-592. Nov. 1950. 49 J82

13442 WU, S. H., ELLIKER, P. R., and MCKENZIE, F. F. Bacteria in dairy bull semen and their relation to fertility. (Abs.) J. Anim. Sci. 9:684. Nov. 1950. 49 J82

13443 YAPP, W. W. The place of artificial insemination in the breeding of pure bred dairy cattle. Guernsey Breeders' J. [Peterborough] 80:993-994, 1002. Nov. 15, 1950. 43.8 G93

13444 YOHE, R. S. Brown Swiss; they are smaller, finer in Switzerland. Prairie Farmer, Gen. Ed. 122(23): 18-19. Dec. 2, 1950. 6 P883

13445 YUILL, W. J. Grand display of quality Jerseys. Austral. Farm & Home 59(10):87-88, 92. Oct. 2, 1950. 23 Au7

13446 YUILL, W. J. Jersey tradition at King's Vale; pioneer herd was most successful exhibitor at 1948 and 1949 Royals. Austral. Farm & Home 59(8):90, 93, 96. Aug. 1, 1950. 23 Au7

13447 ZEEMAN, L. C. Economic aspects of artificial insemination of cattle. Farming So. Africa 25:303-304, 308. Sept. 1950. 24 So842

### Feeds and Feeding

13448 ALGEO, J. W. Feed to sell—consistent, intelligent care is big difference in producing good cattle. West. Livestock J. 28(64):62-63, 65. Nov. 15, 1950. 6 F2278

13449 ALLEN, N. N. Feed formulation for dairy cattle. (Abs.) Feedstuffs 22(47):38, 40-41. Nov. 25, 1950. 286.81 F322

13450 AMPILOGOV, A., and VOROTILOV, M. Inter-collective farm grazing of cattle. (In Russian.) Kolkhoz. Proizvodstvo 10(7):29. July 1950. 281.8 K83

13451 ARMER, A. Dairy feeding for maximum milk production. Spreckels Sugar Beet B. 14:36. Sept./Oct. 1950. 66.8 Sp7

Feeding dried beet pulp.

13452 BAILEY, J. W. Better winter feeding. Hoard's Dairyman 95:876. Dec. 10, 1950. 44.8 H65

13453 BAILEY, J. W. Feed must be good in winter. Hoard's Dairyman 95:915. Dec. 25, 1950. 44.8 H65

13454 BAKER, M. L. Feeding urea to growing and fattening cattle. Feedstuffs 22(48):28, 30, 32, 34-37. Dec. 2, 1950. 286.81 F322

13455 BAKKER, W. Late turnips in the coming stall period. (In Dutch.) Drents Landtbl. 31(42):11. Oct. 28, 1950. 12 D812

Feed for dairy cattle.

13456 BARTLEY, E. E., FOUNTAINE, F. C., and ATKESON, F. W. The effects of an APF concentrate containing aureomycin on the growth and well-being of young dairy calves. (Abs.) J. Anim. Sci. 9:646-647. Nov. 1950. 49 J82

13457 BATTERMAN, W. E., BRAY, R. W., and PHILLIPS, P. H. Effect of fattening upon certain characteristics of connective tissue in aged bovine. (Abs.) J. Anim. Sci. 9:641-642. Nov. 1950. 49 J82

13458 BAZHENOV, L., and POLJANSKII, V. Cattle [beef] fattening on the farms of Glavskototkorm. (In Russian.) Míasnaja Indus. SSSR. 21(2):70-74. Mar./Apr. 1950. 50.8 M58

13459 BEESON, W. M. Corn cobs, molasses, urea for cattle feeding. Feedstuffs 22(47):20-21. Nov. 25, 1950. 286.81 F322

13460 BELL, M. C., WHITEHAIR, C. K., and GALLUP, W. D. The effect of aureomycin on digestion in steers. (Abs.) J. Anim. Sci. 9:647-648. Nov. 1950. 49 J82

13461 BERTL, H. Die richtige fütterung der rinder. Landwirtschaft 1950:252-254. Sept. 1950. 19 L235

13462 BLAKE, J. T., JACOBSON, N. L., and ALLEN, R. S. The effect of method of administration on the absorption and storage of vitamin A by dairy calves. (Abs.) J. Anim. Sci. 9:648. Nov. 1950. 49 J82

13463 BOEDER, J. Observations on the approaching stall time. (In Dutch.) Overijsselsch Landtbl. 32(1573): 11. Oct. 7, 1950. 12 Ov2

Cattle feeding.

13464 BOHSTEDT, G. Nutrition in health of dairy cattle. Westernnews 12(2):18-19. Oct. 1950. 389.78 W522

13465 BREIREM, K. Feeding of dairy cattle at the time of calving. (In Norwegian.) Buskap og Avdrått 1950(3):47-51. 49 B96

13466 BRETHOUR, C. L. Feeding dairy cattle for health and production. Ontario Milk Prod. 26:134-136. Nov. 1950. 44.8 On8

13467 BURROUGHS, W., and others. Cellulose digestion by rumen microorganisms as influenced by cereal grains and protein-rich feeds commonly fed to cattle using an artificial rumen. J. Anim. Sci. 9:523-530. Nov. 1950. 49 J82

J. Long, P. Gerlaugh, and R. M. Bethke, joint authors.

13468 BUTTON, D. J. Faster beef gains with protein substitutes from the air. Iowa Agr. 49(3):10-11, 19. Oct. 1950. 6 Io9

Urea and ammoniated molasses.



- 13469 DAHM, P. A., and others. The effects of feeding parathion to dairy cows. *J. Dairy Sci.* 33:747-757. Ref. Oct.1950. 44.8 J822  
F. C. Fountaine, J. E. Pankaskie, R. C. Smith, and F. W. Atkeson, joint authors.
- 13470 DYER, A. J., and GUYER, P. Producing fat yearling steers utilizing maximum amounts of roughage and pasture. (Abs.) *J. Anim. Sci.* 9:674. Nov.1950. 49 J82
- 13471 ELICHEV, A. N. Proper grazing of cows increases milk production. (In Russian.) *Sotsialist. Zhivotnovod.* 12(7):52-53. July 1950. 49 So71
- 13472 FABIANI, F. Let us raise calves with the least expense. (In Italian.) *Agr. Trent.* 4(6):2-3. Mar.15,1950. 16 Ag8263  
Feeding and care.
- 13473 FENGER, E. Convenient summer feeding. (In Danish.) *Dansk Landbr.* 69:450. Aug.31,1950. 280.28 V91  
Cattle.
- 13474 FORBES, R. M., and GARRIGUS, W. P. Some effects of forage composition on its nutritive value when cut and fed green to steers and wethers, as determined conventionally and by the lignin ratio. *J. Anim. Sci.* 9:531-539. Ref. Nov.1950. 49 J82
- 13475 FOSTER, J. E. Planning means dollars and cents in successful [beef] cattle feeding. *Atherton Vet. Supply Co. Capital Forecast* 1:4.7. July 1950. 41.9 At4
- 13476 GERLAUGH, P., and KUNKLE, L. E. Feed lot performance of steers produced by scientific breeding procedures compared with steers from recognized commercial sources. (Abs.) *J. Anim. Sci.* 9:637. Nov.1950. 49 J82
- 13477 GEUS, J. DE. A note on ration grazing in Holland. *Brit. Grassland Soc. J.* 5:251-252. Sept.1950. 60.19 B773  
Cattle.
- 13478 GLASSCOCK, R. S., and others. Urea as a protein substitute for steers fed citrus molasses. (Abs.) *J. Anim. Sci.* 9:657. Nov.1950. 49 J82  
H. E. Gullford, T. J. Cunha, and A. M. Pearson, joint authors.
- 13479 GULLICKSON, T. W. Does it pay to feed grain to dairy calves? *Minn. Farm & Home Sci. [Minn. Sta.]* 8:14. Oct.1950. 100 M668
- 13480 HANEPUT. Zuckerrübenblatt als wertvolles futter. *Molk.-Ztg.* 4(40)(sup.:Unser Milchvieh Ausg. A 2(10):3.). Oct.5,1950. 44.8 M735
- 13481 HANSARD, S. L., and others. Behavior of radiocalcium in the rat and the castrated male bovine as affected by the dietary calcium level. (Abs.) *J. Anim. Sci.* 9:657-658. Nov.1950. 49 J82  
C. L. Comar, M. P. Plumlee, S. L. Hood, and C. S. Hobbs, joint authors.
- 13482 HAUSMANN, O. P. Die biologischen vorteile des alpweldeganges beim milchvieh in betriebswirtschaftlicher betrachtung. *Pflug* 3:199-202. Oct.1950. 19 P48
- 13483 HERMAN, H. A. Better pasture and grass silage. *Jersey B.* 69:1962-1963,1997-1999. Dec.10,1950. 43.8 J48
- 13484 HERSHBERGER, T., and others. The relation of certain feeding management practices to the biochemistry and quality of meat. (Abs.) *J. Anim. Sci.* 9:643. Nov.1950. 49 J82  
R. Deans, L. E. Kunkle, P. Gerlaugh, and F. E. Deatherage, joint authors.  
Tests with Hereford steers.
- 13485 HIBBS, J. W., and POUNDEN, W. D. Calf raising made easier by research. *Buckeye Dairyman* 4(9):7. Nov.1950. 44.8 B85  
Feeding and cud inoculations.
- 13486 HIBBS, J. W., and POUNDEN, W. D. The performance of rumen inoculated calves fed a high roughage ration with and without A.P.F. supplement. (Abs.) *J. Anim. Sci.* 9:659. Nov.1950. 49 J82
- 13487 HILLIER, R. La ración vacuna y su equilibrio. *Campeño [Santiago]* 82(9):23. Sept.1950. 9.3 So12
- 13488 HOBBS, C. S., and others. The effect of feeding varying levels of fluorine on cattle. (Abs.) *J. Anim. Sci.* 9:659-660. Nov.1950. 49 J82  
S. L. Hansard, E. R. Barrick, D. Sikes, J. L. West, W. H. MacIntire, R. P. Moorman, and J. M. Griffith, joint authors.
- 13489 HOFFMAN, K. How we feed our champion carlots; whether you are feeding steers for the market or for the livestock show, you can pick up some tips from this Iowa father-and-son combination of master feeders. *Country Gent.* 120(11):22,83-84. Nov.1950. 6 C833
- 13490 HUFFMAN, C. F., and DUNCAN, C. W. The nutritive value of alfalfa hay. IV. *J. Dairy Sci.* 33:710-720. Ref. Oct.1950. 44.8 J822
- 13491 ISLEY, F. E. Slow down those grain burners. *Dairymen's League News* 34(24):3,8,19. Nov.28,1950. 44.8 D1432
- 13492 IWEMA, S. Practical feeding of our dairy cattle during the stall period. (In Dutch.) *Netherlands Landbouwlichtingsdienst. Maandbl.* 7:365-371. Sept. 1950. 12 N383M
- 13493 JACOBSON, N. Research in dairy cattle nutrition at Iowa State College. *Iowa Holstein Herald* 11(3):7-8. Sept.1950. 49 Io92
- 13494 KARMANOV, N. G. Effect of various conditions of nutrition on growth and meat qualities of young Red Tambov cattle. (In Russian.) *Moskov. Ordena Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 11:145-149. 1949. 20 M857
- 13495 KASTELIC, J., BENTLEY, O. G., and PHILLIPS, P. H. Studies on growth and survival of calves fed semisynthetic milks from birth. *J. Dairy Sci.* 33:725-736. Ref. Oct.1950. 44.8 J822
- 13496 KEESTRA, J. Data on the stall fodder control in Friesland in the winter of 1949. (In Dutch.) *Netherlands Landbouwlichtingsdienst. Maandbl.* 7:371-377. Sept.1950. 12 N383M  
Cattle feeding.
- 13497 KIRK, W. G., and HODGES, E. M. Initial results with urea for protein encouraging. *Range Cattle Station states. Fla. Cattleman* 15(3):54-55. Dec.1950. 43.8 F66
- 13498 KNOTT, C. B. Growth and production feeding of dairy cattle. *East. Feed Merchant* 1(11):11,42-45. Nov.1950. 389.78 Ea7
- 13499 KNOTT, C. B., WILLIAMS, J. B., and BRUMBAUGH, J. Ammoniated cane molasses in the rations of dairy calves. (Abs.) *J. Anim. Sci.* 9:661-662. Nov.1950. 49 J82
- 13500 LEAR, J. Baled beet tops are a low cost dairy feed. *Spreckels Sugar Beet B.* 14:37. Sept./Oct. 1950. 66.8 Sp7
- 13501 LEES, A. B. Meat from temporary grass in Britain. *Foreign Agr.* 14:250-251. Nov.1950. 1.9 Ec7For
- 13502 LEVECK, H. H. Winter 'em for economical results. *Livestock Wk.* 4(51):12-13. Oct.26,1950. 49 L753  
Chiefly on feeding beef cattle.
- 13503 -MAN, T. J. DE. Proeven over het verstrekken van wei aan kalveren en aan melkkoelen. Whey feeding experiments on calves and milking cows. *Rotterdam, 1949. 28 p.* 389.79 H76
- 13504 MELTON, A. A., and others. Steers show more gains on cottonseed hulls and alfalfa. *Coastal Cattleman* 16(8):35. Oct.1950. 43.8 C63  
N. B. Willey, J. H. Jones, and P. J. Lyerly, joint authors.
- 13505 MONESTIROLI, C. New directions in the nutrition of calves. (In Italian.) *Rinascita Agr.* 5(10):2. Mar.15,1950. 281.8 R47
- 13506 MONESTIROLI, C. Rapid dry weaning of calves. (In Italian.) *Rinascita Agr.* 5(15):2-3. June 1, 1950. 281.8 R47
- 13507 MOORE, L. A. A relationship between total digestible nutrients (TDN) and estimated net energy values (ENE) and a possible method for estimation of net energy values with producing dairy cows. (Abs.) *J. Anim. Sci.* 9:663. Nov.1950. 49 J82
- 13508 MULLICK, D. N., MURTY, V. N., and KEHAR, N. D. Seasonal variations in the feed and water intake in cattle. (Abs.) *J. Anim. Sci.* 9:663. Nov.1950. 49 J82
- 13509 OLIVE, J. P. L'importance de certains éléments minéraux dans l'alimentation des vaches laitières. *Monit. Agr.* 3(134):4. Nov.5,1950. 14 M744
- 13510 PARHAM, A. P., COLBY, R. W., and RIGGS, J. K. The influence of solvent extracted and hydraulic processed cottonseed meals upon performance and level of plasma carotene, vitamin A, and fat in the blood of wintering beef cows. *J. Anim. Sci.* 9:560-564. Ref. Nov. 1950. 49 J82



- 13511 PATERSON, R. Problems of management. 1-4. *Farmers Wk.* [London] 33(17):59;(18):53;(19):63;(20):53. Oct. 27-Nov. 17, 1950. 10 F2226  
Effect of feeding on milk production of dairy cows.
- 13512 PATIL, V. M., WILBUR, J. W., and LUND-QUIST, N. S. The effect of advance in pasture season on milk production. (Abs.) *J. Anim. Sci.* 9:675. Nov. 1950. 49 J82
- 13513 PETERSEN, W. E. Lessons from New Zealand. *Hoard's Dairyman* 95:731,746-747. Oct. 25, 1950. 44.8 H65  
Dairy cattle and sheep feeding and grassland management.
- 13514 PIÁL'ZING, E. Summer grazing of cattle on state farms in Leningrad Zone. (In Russian.) *Míasnafa Indus. SSSR.* 21(3):61-63. May/June 1950. 50.8 M58
- 13515 PORTER, A. R. How much corn silage in the dairy ration. *Iowa Holstein Herald* 11(3):9. Sept. 1950. 49 I092
- 13516 POWELL, E. Supplement feeding for increasing calf crop percentage. *Zebu J.* 2(5):10-11,34. Oct. 1950. 43.8 Z12
- 13517 PROCTER, J., and others. The close-folding of dairy cows. *Brit. Grassland Soc. J.* 5:243-250. Sept. 1950. 60.19 B773  
A. E. M. Hood, W. S. Ferguson, and A. H. Lewis, joint authors.
- 13518 RAIBAUD, G., and RAIBAUD, P. La vache familiale en Provence. I-III. *Révell Agr.* 59:296-297, 312-313,329. Oct. 1-Nov. 1, 1950. 14 R322  
Feeding.
- 13519 ROSAGER, H. K. Mineral requirements of dairy cattle. (In Danish.) *Andelsbladet* 51:1289-1290. Oct. 26, 1950. 280.28 An2
- 13520 ROSS, O. B., MACVICAR, R. W., and STEPHENS, D. F. Feeding trials with mineral and protein supplements for two- and three-year-old steers. *Okla. Agr. Expt. Sta. B. B-359*, 18 p. Ref. Oct. 1950. 100 Ok4
- 13521 RUSHOFF, L. L. A.P.F. supplements for calves. (Abs.) *J. Anim. Sci.* 9:666. Nov. 1950. 49 J82
- 13522 SCHULTZE, A. B., HATHAWAY, I. L., and LOEFFEL, W. J. The influence of feeding thioracil to dairy bull calves. *J. Anim. Sci.* 9:571-577. Ref. Nov. 1950. 49 J82
- 13523 SEZEMOV, M. Cattle fattening on collective farms [in Voronezh Region]. (In Russian.) *Míasnafa Indus. SSSR.* 21(2):82-83. Mar./Apr. 1950. 50.8 M58
- 13524 SHAW, J. C., and others. The effect upon milk production of alfalfa hay when fed alone and with concentrates. (Abs.) *J. Anim. Sci.* 9:675-676. Nov. 1950. 49 J82  
H. M. Irvin, P. Saarinen, M. A. Sami, G. M. Cairns, and L. A. Moore, joint authors.
- 13525 SKREDEN, I., and WESTGAARD, P. Silage and milk quality. (In Norwegian.) *Buskap og Avdrått* 1950(3):51-54. 49 B96
- 13526 SMITH, E. F., PARRISH, D. B., and CLAWSON, A. J. Effect of the addition of salt vs. no salt upon digestibility of certain rations, growth, and conditions of steers. (Abs.) *J. Anim. Sci.* 9:668. Nov. 1950. 49 J82
- 13527 SMITH, S. E., and others. Salt studies with dairy cattle. *East. Feed Merchant* 1(12):26,28. Dec. 1950. 389.78 Ea7  
P. D. Aines, F. W. Lengemann, and K. L. Turk, joint authors.  
Also in *Feed Bag* 26(12):42,80. Dec. 1950. 389.78 F32.
- 13528 STEVENS, H. W. G. Ley farming (with a difference) cured infertility in my herd. *Dairy Farmer* [Ipswich] 23(11):15. Nov. 1950. 44.8 D1439
- 13529 TIMOFEEV, B. Z. Fattening of [beef] cattle. (In Russian.) *Sofialist. Zhivotnovod.* 12(7):49-51. July 1950. 49 So71
- 13530 TURK, K. L., and CRANDALL, W. T. Feeding the dairy cow efficiently. *N. Y. Agr. Col. Cornell Ext. B.* 363, rev., 55 p. Nov. 1950. 275.29 N48E
- 13531 TURK, K. L. Make full use of your home-grown grains. *Dairymen's League News* 34(22):6-7. Oct. 31, 1950. 44.8 D1432
- 13532 TURK, K. L. Use of commercial feeds on dairy farms. *Dairymen's League News* 34(21):6,20. Oct. 17, 1950. 44.8 D1432
- 13533 TYRER, T. G. Rationed grazing in the boom; lessons from new system still being learned but results in the bucket are convincing more and more dairyfarmers of its advantages. *New Zeal. Dairy Exporter* 26(4):4-5, 69-70. Oct. 1950. 44.8 N484
- 13534 USUELLI, F. Biological aspects of the production and consumption of milk. (In Italian.) *Humus* 6(8):7-9. (Cont.) Aug. 1950. 16 H88  
Effects of feeding.
- 13535 VERBEEK, W. A. Nutrition and the dairy-breed heifer. *Farmer & Countryman* 39(41):6-7. Oct. 13, 1950. 24 F227  
Similar title in *Farming So. Africa* 25:245-246,248. Aug. 1950. 24 So842
- 13536 WILLIAMS, J. B., and KNOTT, C. B. The further development of milk replacements for dairy calves. *J. Dairy Sci.* 33:809-814. Ref. Nov. 1950. 44.8 J822
- 13537 WING, J. M., ALLEN, R. S., and JACOBSON, N. L. Effect of certain milk products reconstituted with different types and amounts of fat upon growth and certain blood constituents of young dairy calves. (Abs.) *J. Anim. Sci.* 9:673. Nov. 1950. 49 J82
- 13538 ZHOLNIRENKO, A. M. Experiment in increasing milk production of cows. (In Russian.) *Sofialist. Zhivotnovod.* 12(6):53-57. June 1950. 49 So71  
Chiefly on feeding.

#### Veterinary Medicine

13539 AEHNELT, E., and RATH, G. Zur operativen behandlung der zitzenwunden und zitzenfisteln beim rind. *Deut. Tierärztl. Wchnschr.* 57:336-341. Ref. Oct. 15, 1950. 41.8 D482

13540 ANDERSON, W. A., and DAVIS, C. L. Congenital cerebellar hypoplasia in a Holstein-Friesian calf. *Amer. Vet. Med. Assoc. J.* 117:460-461. Dec. 1950. 41.8 Am3

13541 ANDREWS, F. N., BEESON, W. M., and JOHNSON, F. D. The effect of hormones on the growth and fattening of yearling steers. (Abs.) *J. Anim. Sci.* 9:677. Nov. 1950. 49 J82

13542 ARZUMANIAN, E. A. Changes in physiological characteristics of milch cows. (In Russian.) *Sovet. Zootekh.* 5(8):80-86. Aug. 1950. 49 So822

13543 BAILEY, J. W. Why cows "go down." *Hoard's Dairyman* 95:736. Oct. 25, 1950. 44.8 H65  
Diseases and injuries.

13544 BARRON, N. Three of every four mastitis cases should never happen; proper milking methods will prevent them. *Dairy Farmer* [London] 23(10):29-30. Oct. 1950. 44.8 D1414

13545 BISHOP, W. H. Salmonellosis in cattle. *Austral. Vet. J.* 26:253-255. Sept. 1950. 41.8 Au72

13546 BLACK, S. L. Spaying of cows; two methods are used with mature animals. *Agr. Gaz. N. S. Wales* 61:480-483. Sept. 1, 1950. 23 N472

13547 BLAIR, H. E. Control of tapeworm [Moniezia] in calves. *Allied Vet.* 21(6):11-13. Nov./Dec. 1950. 41.8 AL5

13548 BLASER, E. Ein beitrag zur klinik und therapie der puerperalen infektionen beim rinde mit neueren sulfonamiden und penicillin. *Schweiz. Arch. f. Tierheilk.* 92:638-655. Ref. (Concl.) Oct. 1950. 41.9 Sch9  
English summary.

13549 BLAU, G. Die physiologischen grundlagen des melkmaschinenensatzes. *Tierzüchter* 2:401-402. Aug. 5, 1950. 49 T445

13550 BLENDINGER, W. Beitrag zur bekämpfung der rindertuberkulose. *Tierärztl. Umschau* 5:288-289. Aug. 1950. 41.8 T445

13551 BOHÓRQUEZ, J. J. Diagnóstico bacteriológico de la Brucella abortus. Colombia. U. Nac. Facul. de Med. Vet. y de Zootecnia. Rev. 19:217-234. Ref. Jan./July 1950. 41.8 R3214  
English summary.

In cattle.  
13552 BROWN, W. B. Honey for sick calves. *Gleanings Bee Cult.* 78:732-733. Dec. 1950. 424.8 G47  
Treatment for scours.

13553 BURRIS, M. J., BLUNN, C. T., and BAKER, M. L. Some factors affecting birth weights of beef calves. (Abs.) *J. Anim. Sci.* 9:635. Nov. 1950. 49 J82



- 13554 BURROUGHS, W., and others. The use of an artificial rumen in studying urea utilization by micro-organisms taken from the paunch of cattle. (Abs.) *J. Anim. Sci.* 9:650-651. Nov.1950. 49 J82
- C. Arias, P. Gerlaugh, and R. M. Bethke, joint authors.
- 13555 COLBY, R. W., and others. The relationship of various blood constituents to rate of gain in beef cattle. (Abs.) *J. Anim. Sci.* 9:652. Nov.1950. 49 J82
- J. H. Ware, J. P. Baker, and C. M. Lyman, joint authors.
- 13556 COMINOTTI, L. Pneumotropic ultravirus diseases. (In Italian.) *Prog. Vet.* 5:560,562-564,566, 569-570,589-592,594-596. (Cont.) Oct.15-Nov.1,1950. 41.8 P942
- Infectious bronchitis of horses; influenza of cattle and enzootic bronchopneumonia of calves.
- 13557 CONNELLY, R. G. Mastitis control by penicillin infusions. *Va. Dairymen* 12(9):1-3. Oct.1950. 44.8 V81
- 13558 DIERNHOFER, K. Bemerkungen zu den ausföhrungen zur behandlung der schlundverstopfung des rindes von Hofrat Dr. Karl Schouppé. *Wien. Tierärztl. Monatsschr.* 37:781-782. Nov.1950. 41.8 T345
- 13559 DIERNHOFER, K. Zur azetonämie der milchkühe. *Wien. Tierärztl. Monatsschr.* 37:526-537. Ref. Aug.1950. 41.8 T345
- 13560 DRACY, A. E., and PETERSEN, W. E. Isolation of ova from the living bovine. *J. Dairy Sci.* 33:797-802. Nov.1950. 44.8 J822
- 13561 EISENREICH, L., and MENNICKE, U. Der quantitative verlauf der milchbildung. *Milchwissenschaft* 5:362-364. (Concl.) Oct.1950. 44.8 M5933
- English summary.
- 13562 ENDRES. Keine verweichlichung der tiere im winter; ein beitrage zur bekämpfung der rindertuberkulose. *Allgäuer Bauernbl.* 18:689-690. Nov.23,1950. 18 AL53
- 13563 EVELETH, D. F., and HOLM, G. C. The milk ring test for the diagnosis of brucellosis. *N. Dak. Agr. Col. Ext. C. A-150*, 4 p.-folder. June 1950. 275.29 N812Sa
- 13564 FEUSNER, R. The commercial dairyman's views on brucellosis eradication. *Nowest. States Brucellosis Conf. Proc.* 1950:12-13. 1.972 A2B833
- 13565 GALLINA, L. Innovation in utero-vaginal prolapse of the cow. (In Italian.) *Prog. Vet.* 5:603-604. Nov.1,1950. 41.8 P942
- 13566 GEROSA, G. Comment on the article "Uterine prolapse in the cow" by Dr. L. Gallina. (In Italian.) *Prog. Vet.* 5:534-536. Oct.1,1950. 41.8 P942
- 13567 HABEL, R. E. Guide to the dissection of the cow. *Ithaca, N. Y., Cornell Coop. Soc.*, 1949. 127 p. 444 H117G
- 13568 HABERSANG. Über die pathogenität des *Bacillus proteus vulgaris* beim rind. *Monatsh. f. Vetmed.* 5:258-259. Oct.1950. 41.8 M742
- 13569 HANSEL, W., and TRIMBERGER, G. W. Atropine blockage of ovulation in the cow and its possible significance. (Abs.) *J. Anim. Sci.* 9:679. Nov.1950. 49 J82
- 13570 HENDERSON, J. A. Johne's disease—a growing problem. *Shorthorn News* 11(3):6. Sept.1950. 43.8 Sh85
- 13571 HENDRIX, W. R. The dairymen's view on brucellosis eradication. *Nowest. States Brucellosis Conf. Proc.* 1950:28-29. 1.972 A2B833
- 13572 HIBBS, J. W. Milk fever (parturient paresis) in dairy cows—a review. *J. Dairy Sci.* 33:758-789. Ref. Oct.1950. 44.8 J822
- 13573 JAFAR, S. M., CHAPMAN, A. B., and CASIDA, L. E. Causes of variation in length of gestation in dairy cattle. *J. Anim. Sci.* 9:593-601. Ref. Nov.1950. 49 J82
- 13574 JOHNSON, R. E. Electric calf dehorning. *Elect. on the Farm* 23(9):12. Nov.1950. 335.8 EL27
- 13575 KINGMAN, H. E. Brucellosis control under range conditions in a purebred beef herd. *Nowest. States Brucellosis Conf. Proc.* 1950:29-30. 1.972 A2B833
- 13576 KITAEV, G. M. A sectional restraining frame for cattle and horses. (In Russian.) *Veterinariia* 27(8):52-53. Aug.1950. 41.8 V6426
- In surgical and therapeutic operations.
- 13577 KLUSSENDORF, R. C. Mastitis—what causes it? *Bow'an Arrow, Prod. Ed.* 6(6):2. Nov./Dec.1950. 44.8 B672
- In cattle.
- 13578 KNOTT, C. B. Preventing mastitis in dairy cows. *Pa. Farmer* 143:266,269. Oct.28,1950. 6 P383
- 13579 KNOPFF. Die bekämpfung der zuchtkrankheiten beim rind. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1381-1382. Oct.5,1950. 18 L2346
- 13580 LANG, K. Wesen und bedeutung der tuberkulinallergie beim rinde. *Berlin. u. Münch. Tierärztl. Wchnschr.* 1950:149-153. Ref. Aug.1950. 41.8 B45
- 13581 LIENERT, E. Die pharmakotherapie der pansentympanie mit besonderer berücksichtigung der pharmakodynamik des tartarus stibiatus auf den pansen. *3. Wien. Tierärztl. Monatsschr.* 37:758-768. Nov.1950. 41.8 T345
- 13582 MCBARRON, E. J. Milk fever. *N. S. Wales. Dept. Agr. Div. Anim. Indus. Dis. Anim. L.* 20,4 p. 1949. 41.9 N473D
- Of dairy cattle.
- 13583 MARTIN LOMENA, S. Tuberculosis bovine: su importancia higiénica y económica. *Rev. de Sanidad Vet.* 5:521-533. July 15,1950. 41.8 R3222
- 13584 MARULANDA CAICEDO, L. Nueva enfermedad de los ganados del Valle del Cauca (la tripanosomiasis bovina). *Rev. Agr. y Ganad.* 12(127):2. Aug.1950. 9.4 R327
- 13585 MEHRLE. Trichomonadenseuche und pensionswelden. *Tierärztl. Umschau* 5:294. Aug.1950. 41.8 T445
- Cattle.
- 13586 MESSERLI, W. Weitere untersuchungen über magendarm-parasiten des rindes und des schweines. *Schweiz. Arch. f. Tierheilk.* 92:601-629. Ref. Oct.1950. 41.9 Sch9
- English summary.
- Phenothiazine in treatment of coccidiosis and verminosis.
- 13587 METIANU, T. Etude critique sur les piroplasmoses et piropasmes des bovidés en Roumanie. *Ann. de Parasitol. Humaine et Compar.* 25:255-266. Ref. 1950. 436.8 An7
- Includes infections by *Babesia* spp., *Francaella caucasica*, *Theileria* spp., and *Anaplasma* spp., and their tick vectors.
- 13588 NADAI, J. Untersuchungsergebnisse über die zusammenhänge zwischen euterform, milchzeichen und milchleistung. *Schweiz. Ver. f. Tierzucht. Schr.* 11:29-40. 1949. 49.9 Sch92
- 13589 NAZAROV, G. S. Dry method for ringworm treatment in cattle. (In Russian.) *Veterinariia* 27(8):27-28. Aug.1950. 41.8 V6426
- 13590 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF ANIMAL INDUSTRY. Foot-rot in cattle. *N. S. Wales. Dept. Agr. Div. Anim. Indus. Dis. Anim. L.* 46,2 p. 1949. 41.9 N473D
13591. NICOLAY, H. K. Voices from the practice; t.b.c. control and the livestock dealer. (In Dutch.) *Vee-en Vleeshandel* 35:323. Aug.22,1950.
- 13592 OBERST, F. H. Vibrionic abortion in cattle in Kansas. *Kans. Vet. Med. Assoc. B.* 7(9):2. Sept.1950. 41.9 K133B
- 13593 OLIVER, H. Experience with controlling brucellosis in a range herd. *Nowest. States Brucellosis Conf. Proc.* 1950:9-12. 1.972 A2B833
- 13594 PHILLIPS, P. H. Some ways to combat mastitis. *Hoard's Dairymen* 95:776. Nov.10,1950. 44.8 H65
- 13595 POPPLOW, U. Rundzellensarkom der thymusdrüse bei einer färsse. *Deut. Tierärztl. Wchnschr.* 57:309-310. Oct.1,1950. 41.8 D482
- 13596 QUITTET, E. L'appréciation précoce de l'aptitude laitière des génisses. *France. Min. de l'Agr. B. Tech. d'Inform.* 53:599-601. Oct.1950. 14 F844B
- 13597 RAESIDE, J. I., and TURNER, C. W. Progestosterone in the maintenance of pregnancy in dairy heifers. (Abs.) *J. Anim. Sci.* 9:681. Nov.1950. 49 J82
- 13598 REECE, R. P. The influence of the length of the milking interval on lactational butterfat percent. (Abs.) *J. Anim. Sci.* 9:681. Nov.1950. 49 J82
- 13599 THE RING test for Bangs? *Butter, Cheese & Milk Prod. J.* 41(11):32-33,38-39. Nov.1950. 286.85 B98Bu
- 13600 RITTERSHAUS, W. Wie ich die Bangseuche überwunden habe. *Kärntner Bauer* 100:335-336. Sept.15, 1950. 19 K14
- Cattle.
- 13601 ROBERTSON, A. Twinning in cattle. *Farming [Norwich]* 4:335-337. Nov.1950. 10 F2236



- 13602 ROSENBERGER, G. Kohlanämie und periphere hämoglobinurie des rindes. Deut. Tierärztl. Wchnschr. 57:330-332. Oct.15,1950. 41.8 D482
- 13603 RUIZ MARTINEZ, C. Mastitis de la vaca. Indus. Lechera 32:431-434. (Cont.) Aug.1950. 44.8 In26
- 13604 RUSHOFF, L. L. Effect of calcium on reproduction and milk production in dairy cows. (Abs.) J. Anim. Sci. 9:666. Nov.1950. 49 J82
- 13605 SACCO, P. Stud stations as centers of "Trichomonas" infection. (In Italian.) Gior. di Agr. 60:342. Oct.29,1950. 16 It1G
- In cattle.
- 13606 SCHMIDT, S. How Denmark eradicated bovine tuberculosis. Dan. Foreign Off. J. 1950(3):19-20. July/Sept.1950. 286.8 D22
- 13607 SCHNEIDER, G. Beitrag zum kaiserschnitt beim rind. Tierärztl. Umschau 5:282-283. Aug.1950. 41.8 T445
- 13608 SCHOUPPE, K. Bemerkungen zu Prof. Dr. Karl Diernhofers arbeit "Zur behandlung der schlundverstopfung des rindes." Wien. Tierärztl. Monatsschr. 37:779-781. Nov.1950. 41.8 T345
- 13609 SCHWEIZERISCHEN VEREINIGUNG FÜR TIERZUCHT. Euter und milchleistung; vorträge an der tagung der Schweizerischen Vereinigung für Tierzucht vom 26. November 1948 in Zürich. Schweiz. Ver. f. Tierzucht. Schr. 11,40 p. 1949. 49.9 Sch92
- 13610 SEHER, O. W. Tracing tuberculous cattle from postmortem findings. Amer. Vet. Med. Assoc. J. 117:474. Dec.1950. 41.8 Am3
- 13611 SEIFERLE, E. Neuere erkenntnisse über bau und funktion der milchdrüse der kuh. Schweiz. Ver. f. Tierzucht. Schr. 11:5-16. Ref. 1949. 49.9 Sch92
- 13612 SEMENOV, V. A. Effect of level of nutrition on blood composition in cattle. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva Dok. 11:116-122. 1949. 20 M857
- 13613 SHIRLEY, R. L., OWENS, R. D., and DAVIS, G. K. Deposition and alimentary excretion of phosphorus-32 in steers on high molybdenum and copper diets. J. Anim. Sci. 9:552-559. Nov.1950. 49 J82
- 13614 SHRODE, R. R., and CARTWRIGHT, T. C. Characteristics of the hair coat of Brahman and Jersey cattle as factors in heat tolerance. (Abs.) J. Anim. Sci. 9:682-683. Nov.1950. 49 J82
- 13615 SMITH, H. G., and others. The accuracy and repeatability of live-animal and photographic measurements of beef cattle. (Abs.) J. Anim. Sci. 9:639-640. Nov.1950. 49 J82
- C. S. Hobbs, E. J. Warwick, and W. M. Whitaker, joint authors.
- 13616 SUTHERLAND, A. K. Diseases of calves. Austral. Vet. J. 26:238-248. Ref. Sept.1950. 41.8 Au72
- Includes discussion.
- 13617 TREML, Staatliche veterinäranstalten zur bekämpfung von zuchtkrankheiten. Württemb. Wchnbl. f. Landwirt. 117:923. Oct.7,1950. 18 W96
- Cattle.
- 13618 UNDERBERG, G. K. L. The control of scours and pneumonia in the newborn calf. Kans. Vet. Med. Assoc. B. 7(10):1-2. Sept.1950. 41.9 K133B
- 13619 VAITSMAN, J. Aspects of the dairy production problem. (In Portuguese.) Seleg. Agr. 5(53):39-40. Sept.1950. 9.2 Se4
- Need for disease and pest control in Brazil.
- 13620 VAN ARSDELL, W. J., ROSS, O. B., and MACVICAR, R. W. Effect of ration upon some constituents of blood and milk of Hereford cows and the blood of their calves. J. Anim. Sci. 9:545-551. Ref. Nov.1950. 49 J82
- Effect of carotene intake on carotene and vitamin A levels.
- 13621 VANDEMARK, N. L., and MOELLER, A. N. The influence of estrous cycle length on bovine fertility. (Abs.) J. Anim. Sci. 9:640. Nov.1950. 49 J82
- 13622 VERESHCHAGINA, V. I. Relation of chemical composition of milk to external factors and lactation period of cows. (In Russian.) Sovet. Zootekh. 5(8):8-17. Aug.1950. 49 So822
- 13623 VISHNIAKOV, N. K. Some biological characteristics of Tuvan local [dual purpose] cattle and their industrial importance. (In Russian.) Sovet. Zootekh. 5(8):24-32. Aug.1950. 49 So822
- 13624 WANG, H. Histologic study of fresh and aged beef ribeye (Longissimus dorsi) and the outside round (Semitendinosus) muscles. (Abs.) J. Anim. Sci. 9:645. Nov.1950. 49 J82
- 13625 WARD, G. M., ADAMS, M. F., and BLOSSER, T. H. Changes in the venous blood and urinary levels of potassium, calcium, sodium and chlorides in dairy cows at the time of parturition. (Abs.) J. Anim. Sci. 9:683-684. Nov.1950. 49 J82
- 13626 WEBER, A. F., MCNUTT, S. H., and MORGAN, B. B. Structure and arrangement of zona glomerulosa cells in the bovine adrenal. J. Morph. 87:393-415. Ref. Nov.1950. 444.8 J826
- 13627 WETZEL, R. Zur auswertung des mikroskopischen kotbefundes bei der magenwurmkrankheit der rinder. Deut. Tierärztl. Wchnschr. 57:323-325. Ref. Oct.15,1950. 41.8 D482
- Parasite eggs.
- 13628 WILKINS, H. F. Anaplasmosis, a destructive cattle disease. Mont. Stockgrower 22(10):24-25. Oct.15, 1950. 49 M76
- Also in West. Livestock J. 28(64):72,74. Nov.15,1950. 6 F2278
- 13629 WOODWARD, R. R., and KNAPP, B., JR. The hereditary aspect of eye cancer in Hereford cattle. J. Anim. Sci. 9:578-581. Nov.1950. 49 J82
- 13630 WRIGHT, N. The digestive system of cattle. Canad. Cattlemen 13(10):38-39. (Cont.) Oct.1950. 49 C16
- 13631 WRIGHT, N. Lumpy jaw. Canad. Cattlemen 13(11):19,22. Nov.1950. 49 C16
- /Actinomycosis in cattle.
- 13632 YATES, S. D. Calves grow faster with rumen inoculation; time and effort only cost. Polled Hereford Mag. 8(7):12. Dec.1950. 49 P69
- 13633 YEAMAN, A. F. Area by area clean-up of bovine tuberculosis. Farming News & No. Brit. Agr. 102(40):13. Oct.6,1950. 10 N82
- 13634 ZANETTI, A. Hygiene is the best protection against infections in the newly born. (In Italian.) Rass. Econ. della Prov. di Sondrio 3(9):3-4. Sept.1950. 287 So5
- Calves and heifers.
- 13635 ZORN. Bedeutung, aufgaben und methoden der konstitutionsforschung mit besonderer berücksichtigung des rindes. Tierzüchter 2:449-451. Sept.5,1950. 49 T445

## Miscellaneous

- 13636 ANCESCHI, L. Cattle show in Bedonia. (In Italian.) Avvenire Agr. 58:227-229. Oct.1950. 16 Av9
- 13637 ANDRESEN, N. Gewinnung von qualitätsmilch unterbesonderer berücksichtigung einer sachgemässen melkarbeit. Molk.-Ztg. 4(36,40)(sup.):Unser Milchvieh. Ausg. A. 2(9):4;(10):4. (Cont.) Sept.7,Oct.5,1950. 44.8 M735
- 13638 BEGUCHEV, A. P., and BELOVA, E. V. On factors which influence the milk production of highly productive cows (according to practices of the dairy farm of Pflätleka Kolkhoz). (In Russian.) Sovet. Zootekh. 5(8):43-49. Aug.1950. 49 So822
- 13639 BLANCKENBERG, F. J. Suckling calves in dairy herds. Farming So. Africa 25:269-270. Aug.1950. 24 So842
- Effects on milk production.
- 13640 BOSS, J. N. Cape [Union of South Africa] dairy farm that "runs like clock-work"; sound organisation enables 255 high-yielding Jerseys to be kept on eleven morgen; foolproof system of feeding. Farmer's Wk. [Bloemfontein] 80:10-11,13. Oct.4,1950. 24 F225
- 13641 BOUDREAU, E. Le soin du troupeau en hiver. Digeste de l'Eleveur 5(2):18-22. Oct.1950. 49 D56
- Cattle.
- 13642 BOYNTON, H. Dam-daughter comparisons. Jersey B. 69:1850-1851,1927-1931. Nov.25,1950. 43.8 J48
- 13643 BROUGHTON, A. Keep udders out of gutters. Wis. Agr. & Farmer 77(23):4. Dec.2,1950. 6 W751
- 13644 COLBY, B. E. Good beef cattle management for N.E. Farm Bur. Mass. 1950:25. Oct.1950. 275.293 Mass
- Also in New Eng. Homestead 123(20):22-23. Oct.28,1950. 6 N442



- 13645 COLLETTI, A. The dairy cow an individual. *Hoard's Dairyman* 95:909. Dec.25,1950. 44.8 H65  
Care.
- 13646 CRAM, J. S. Into the milk can. *Macdonald Col. J.* 11(2):2,4. Oct.1950. 101 M144  
Management of a dairy farm in Canada.
- 13647 DAVIS, H. P. What becomes of animals born in a dairy herd during forty-four years. (Abs.) *J. Anim. Sci.* 9:636. Nov.1950. 49 J82  
Statistics on herd at University of Nebraska.
- 13648 DWEHUS, H. Haltung und fütterung der milchkühe im herbst. *Landwirtbl. Weser-Ems* 97:832. Oct.5,1950. 18 L2345
- 13649 GAZTAMBIDE ARRILLAGA, C., MILLER, R. C., and HENNING, W. L. The effects of environmental temperature and relative humidity on the acclimation of cattle in the Tropics. (Abs.) *J. Anim. Sci.* 9:678. Nov. 1950. 49 J82
- 13650 GEDDES, H. J. Animal husbandry aspects of calf-rearing. *Austral. Vet. J.* 26:233-237. Sept.1950. 41.8 Au72
- 13651 GELDOLF, W. The art of good milking. (In Dutch.) *Plattelands-Post* 6(44):6. Nov.11,1950. 12 P69
- 13652 GROTE, R. Züchterische betrachtungen zu Oldenburger Tierschauen. *Landwirtbl. Weser-Ems* 97:881-882. Oct.19,1950. 18 L2345  
Cattle.
- 13653 HODGSON, R. E. Dairy farming with grassland crops. *U. S. Bur. Dairy Indus. BDI-Inf-113*, 7 p. Nov. 1950. 1.973 D4B34  
Remarks at the 1950 Grassland Farming Contest Round-up for Wisconsin, Madison, Nov. 8, 1950.
- 13654 HOW TO break an ox. *Farm Q.* 5(4):78,96,98, 100. Winter 1951. 6 F22995
- 13655 IBSEN, E. J. Control associations in Holland. (In Danish.) *Dansk Landbr.* 69:505-507. Oct.5,1950. 280.28 V91  
Dairy herd improvement associations.
- 13656 JENNI, E. Die fleischproduktion der schweizerischen rinderrassen. Schweiz. Ver. f. Tierzucht. *Schr.* 13,36 p. 1950. 49.9 Sch92
- 13657 JETER, F. H. Green Greene pastures on Cape Fear River. *Prog. Farmer, Carolinas-Va. Ed.* 65(11): 18,139. Nov.1950. 6 Po45  
How beef cattle has become a big business on a North Carolina farm.
- 13658 KOZLOVSKIY, B. L. Increasing the fat content and milk production in cows. (In Russian.) *Sofsiyalist. Zhivotnovod.* 12(6):40-43. June 1950. 49 So71
- 13659 KRAFFT, H. Ein beitrag zur behandlung des aufziehens der milch. *Monatsh. f. Vetmed.* 5:262. Oct. 1950. 41.8 M742
- 13660 KÜCKELHAUS. Jungvieh- und nachzuchtschauen im kreise Altena. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107A:1313. Sept.21,1950. 18 L2346  
Cattle.
- 13661 LA BAUME, W. Zur abstammung des hausrindes. *Forsch. u. Fortschr.* 26:43-45. Ref. Feb.1950. 474 F772
- 13662 LAMPRECHT. Flüssiges melkfett, eine beachtliche neuerung in der melkmitteltechnik. *Hannoversche Land- u. Forstwirt. Ztg.* 103:749. Aug.26,1950. 18 H194
- 13663 LANIER, P. Problemes de production: comment echelonner la production laitière. *Vie Lait.* 6(116): 3. Sept.25,1950. 44.8 V67
- 13664 LARUE, P. Sur les progrès de l'élevage laitier en France. *Feuilles Agr.* 8:55-60. Jan./Mar. 1950. 24 F43
- 13665 LEIGHTON, R. DHIA throws searchlight on dairy herds. *Minn. Farm & Home Sci. [Minn. Sta.]* 8:16. Oct.1950. 100 M668
- 13666 LÉTARD, E. A la recherche du type idéal de bétail laitier. (Excerpts.) *Bétail & Basse-Cour* 5:422-424. Nov.1950. 49 B462
- 13667 LISHCHENKO, A. M. On a leading [cattle] farm. (In Russian.) *Sofsiyalist. Zhivotnovod.* 12(6):58-59. June 1950. 49 So71  
Of 12-1 Oktibr' Kolkhoz in Kostroma Region.
- 13668 LOUI, D. Is your dairy herd giving you top production? *Prairie Farmer, Gen. Ed.* 122(23):12,29. Dec.2, 1950. 6 P883
- 13669 MAGEE, E. G. You think you have troubles! *West. Livestock J.* 28(64):40,76. Nov.15,1950. 6 F2278  
Cattle ranching in Kenya Colony.
- 13670 MARSBOOM, R. Le buffle et son importance économique pour le Congo Belge. (In Flemish.) *B. Agr. du Congo Belge* 41:773-792. Ref. Sept.1950. 24 K83  
French summary.
- 13671 MERCIER, E. Pourquoi améliorer votre troupeau? *B. des Agr.* 46(10):8-9,98. Oct.1950. 7 B872  
Dairy cattle.
- 13672 MONTANARI, V. The livestock problem of Venezia; cattle population and breeds. (In Italian.) *Allevatore* 6(35):3. Sept.3,1950. 49 AL55
- 13673 MURLEY, R. Production testing the dairyman's partner. *Iowa Holstein Herald* 11(3):16-17. Sept.1950. 49 Io92
- 13674 MUTIAEV, M. An expert in raising calves. (In Russian.) *Kolkhoz. Proizvodstvo* 10(7):43. July 1950. 281.8 K83
- 13675 NESS, R. R. Un programme d'élevage. *Digeste de l'Eleveur* 5(3):25-27. Nov.1950. 49 D56  
Dairy cattle.
- 13676 NEVZOROV, G. A. Hero of Socialist Labor-milkmaid, A. I. Salanova. (In Russian.) *Sofsiyalist. Zhivotnovod.* 12(6):20-25. June 1950. 49 So71  
Her methods of increasing milk production of dairy cattle.
- 13677 NEWELL, P. F. The beef industry grows in the Lower South. *Livestock Wk.* 4(51):36-38. Oct.26, 1950. 49 L753
- 13678 NOSKOV, N. M. Leading calf-tenders in Chkalov Region. (In Russian.) *Sofsiyalist. Zhivotnovod.* 12(6):62. June 1950. 49 So71  
Their methods of raising.
- 13679 NYHUS, G. For vocational contests. (In Norwegian.) *Buskap og Avdrått* 1950(3):33-34. (To be cont.) 49 B96  
Judging dairy cattle.
- 13680 OERTZEN, H. U. V. "Der Tierzüchter" auf reisen: In Württemberg. *Tierzüchter* 2:478-480. Sept.20, 1950. 49 T445  
Cattle and horses.
- 13681 PATTERSON, P. These youngsters are on the right track; steer and lamb feeding projects are paying off for these prospective ranchers—young 4-H Club members. *West. Live Stock* 36(3):12-13,124. Oct.1950. 49 W523
- 13682 PAVLIKHIN, N. F. Milk production of cows on Gor'kii Collective Farm [in Moscow Region]. (In Russian.) *Sofsiyalist. Zhivotnovod.* 12(6):50-52. June 1950. 49 So71
- 13683 PEGG, S. E. Dairy farming; a survey of data on group herd recording, 1948-49. *Queensland Agr. J.* 71:169-180. Sept.1950. 23 Q33
- 13684 PETERSEN, W. E. Correct milking methods. (Digest.) *Ontario Milk Prod.* 26:115. Oct.1950. 44.8 On8  
Similar title in *Dairymen's Topics* 1950:5. Nov.1950. 44.9 Sa72D.
- 13685 POST, J. J. The relation between the weather and the milk supply. III-IV. (In Dutch.) *Friesch Landtbl.* 47:501,513. Aug.18,25,1950. 12 F91
- 13686 PULLIAM, A. L. A 539-pound increase. *Hoard's Dairyman* 95:895. Dec.10,1950. 44.8 H65  
Methods of increasing milk fat production.
- 13687 PUSTER, J. G. Results of 2-year cattle research shown at field day in Florida. *Atlantic Coast Line Agr. & Livestock Topics* 2(11):1-2. Nov.1950. 6 At63
- 13688 RAINEY, L. R. Keeping cows at work. *Hoard's Dairyman* 95:898. Dec.10,1950. 44.8 H65  
Care.
- 13689 RATNIKOV, V. Organizing the milking of cows. (In Russian.) *Kolkhoz. Proizvodstvo* 10(7):27-28. July 1950. 281.8 K83  
Care and feeding chiefly.
- 13690 SAVAGLIO, L. IV Provincial Show of Chianina calves and bullocks; products of selection. (In Italian.) *Agr. Tosc.* 5:403-412. Nov.1950. 16 Ag827
- 13691 SIRRI, A. Courses of instruction for milkers. (In Italian.) *Allevatore* 6(37):5. Sept.17,1950. 49 AL55  
Italy.  
Also in *Campagnolo* 5(10):2-3. Oct.1950. 16 C15
- 13692 SIRRI, A. How to treat draft cattle. (In Italian.) *Rinascita Agr.* 5(17):2. July 1,1950. 281.8 R47
- 13693 SMALL, A. C. Some useful pointers on selecting dairy cows on appearance. *Farmer & Dairyman* 43(524):5. Sept.1950. 23 F225



13694 SPEE, H. On a South African farm dairy cattle require much attention. (In Dutch.) Plattelands-Post 6(43):3. Nov.4, 1950. 12 P69

13695 STAROVOL'SKIY-SERBIN, A. N. Pedigree [dairy cattle] farm of Proletarskaya Volia Kolkhoz. (In Russian.) Sovstallist. Zhivotnovod. 12(6):46-49. June 1950. 49 So71

13696 STOCKING, H. E. Cattle brands. Cattleman 37(7):26-27,44,46. Dec.1950. 49 C29

13697 THIERLING, Stand und ergebnisse der milchleistungsprüfungen 1949. Hannoversche Land- u. Forstwirtschaft. Ztg. 103:844. Sept.23, 1950. 18 H194

13698 TRAUBE, L. Judgment day for King Cattle. Fairs & Expositions 2(19):3. Sept.1950. 310.8 F16

13699 TROMMER, Die milchleistungsergebnisse im bereiche des tierzuchtamtes Donauwörth im jahre 1949. Tierzüchter 2:482-484. Sept.20, 1950. 49 T445

13700 TRUETT, V. S. On the hoof in Nevada. Los Angeles, Gehrett-Truett-Hall, 1950. 613 p. 40 T76  
History of Nevada cattle and horse brands.

13701 VOELKER, D. E. What you should get out of DHIA. Hoard's Dairyman 95:767,806. Nov.10, 1950. 44.8 H65

13702 VOINIK, O. M. Leading milkmaids of Chkalov Kolkhoz [in Moscow Region]. (In Russian.) Sovstallist. Zhivotnovod. 12(7):29-31. July 1950. 49 So71  
Chiefly on their achievements in milk production.

13703 WALLACE, R. W. La finca atómica. Rev. Ganad. [Habana] 10(10):39-44. Oct.1950. 49 R321  
Atomic energy research in connection with cattle.

13704 WALSTON, H. It's the farmer's job to keep cows fit. Dairy Farmer [London] 23(10):22. Oct.1950. 44.8 D1414

13705 WASHINGTON STATE COLLEGE. EXTENSION SERV. Raising dairy calves. Wash. State Col. Ext. B. 269, rev. 31 p. Oct.1950. 275.29 W27P  
Washington State College, Department of Dairy Husbandry cooperating.

13706 WILSON, J. L. Fewer herds—more milk. Hoard's Dairyman 95:921. Dec.25, 1950. 44.8 H65

13707 WILSON, L. T. Raising dairy calves. Md. Farmer 34(10):17,26. Oct.1950. 6 M362

13708 WINNIGSTEDT, Rinder und schafe auf der Landestierschau Oldenburg. Landwirtbl. Weser-Ems 97:791-792. Sept.21, 1950. 18 L2345

13709 WITTMANN, H. Leistungsmelken im regierungsbezirk Mittelfranken. Milcherzeuger 8:37. Sept. 1950. 43.8 M592  
Milking technique and sanitation.

13710 ZIMMER, F. Pünktliches und mehrmaliges melken lohnt sich! Bad. Landwirt. Wchnbl. 117:565. Aug.19, 1950. 18 B142

13711 ZOLLIKOFER, E. Der einfluss des melkens auf milchfluss, milchmenge und beschaffenheit. Schweiz. Ver. f. Tierzucht. Schr. 11:17-28. 1949. 49.9 Sch92

## DOGS AND CATS

### Breeds and Breeding

13712 BAYLON, R. C. The Irish Wolfhound; the modern animal and the legend of its predecessors. Field 196:869-870. Nov.18, 1950. 10 F45

13713 CAMPOGIRO, MARQUES DE. Historia de las razas; Schnauzer Miniatura. Mundo Canino 3(35):4. July 15, 1950. 48.8 M92

13714 CAT FANCIERS' ASSOCIATION. Stud book and foundation record of the Cat Fanciers' Association, v. 39/40. n.p., 1950. 167 p. 48.9 C282

13715 CHANDLER, D. J. C. Feeding the Siamese Cat Bird World 7:284-285. June 1950. 413.8 B533

13716 CHANDLER, D. J. C. The health of your Siamese Cat. Bird World 7:333-334. July 1950. 413.8 B533

13717 DAVIS, E. B. Are we developing a new breed? Amer. Kennel Gaz. 67(11):14-15, 411-413. Nov.1950. 48.8 Am3

Hounds for hunting mountain lions.

13718 DENLINGER, M. G. The complete Great Dane. Silver Spring, Md., Denlinger's, 1950. 256, 112 p. 48 D41Cg

13719 DENLINGER, M. G. The complete Pomeranian. Silver Spring, Md., Denlinger's, 1950. 80, 112 p. 48 D41Cp

13720 GULIAEV, I. A. Laika i okhota s ney [Eskimo dog and hunting with it]. Kirov, Kirovskaya Pravda, 1950. 12 p. 48 G95

13721 HECK, L. Laute jagd mit bracken. Pirsch 2:804-808. Oct.28, 1950. 410 P66

13722 HIGGINSON, A. H. Peter Beckford's Hounds. Field 196:584-585. Oct.7, 1950. 10 F45

13723 HILBRIG, Rüdemanns runenkunde. Pirsch 2:666-667. Sept.1, 1950. 410 P66

13724 JOHNSON, B. Bull Terriers. Whites or coloureds? Breeder Dog J. 1950:14-15. Sept.1950. 48.8 B742

13725 JOHNSON, B. Staffordshire Bull Terriers. Breeder Dog J. 1950:7. Sept.1950. 48.8 B742

13726 KÜNSTER, L. Wann und wie lange nimmt eine hündin den deckrüden an? Pirsch 2:773. Oct.14, 1950. 410 P66

13727 LACKNER, H. Der deutsche jagdterrier—eine reine leistungszucht für den jagdgebrauch. Pirsch 2:704-705. Sept.15, 1950. 410 P66

13728 LIENHART, R. Hérité de la couleur de la robe chez le chien. Acclimatation 77:200. (To be cont.) Sept.16, 1950. 14 Ac2

13729 LOWRY, R. K. A living in dogs? All-Pets Mag. 21(10):43,45. Oct.1950. 48.8 AL5

13730 MAYNE, F. C. Mastiffs in England to-day. Breeder Dog J. 1950:8. Sept.1950. 48.8 B742

13731 MILLER, H. Gallery of American dogs; text by H. Miller; pen-and-ink drawings by P. Brown; photographs by A. S. Mawhinney, and K. H. Mawhinney. New York, McGraw-Hill, 1950. 262 p. 48 M613

13732 MONTGOMERY, E. S. The complete Kerry blue terrier. Silver Spring, Md., Denlinger, 1950. 144, 122 p. 48 M76C

13733 NATIONAL COURSING CLUB. The Greyhound stud book, established by the National Coursing Club, 1882, v. 69. Newcastle upon Tyne, Tyne Printing Works, 1950. 626 p. 48.9 L19G

13734 PERRON, A. Le Dogue de Bordeaux. Acclimatation 77:219. Oct.14, 1950. 14 Ac2

13735 PERRY, V. G. The Boston Terrier; a presentation of the origin, development, breeding, showing, care and kenneling of this American-originated breed of dog. Ed. 3. Chicago, Judy, 1950. 159 p. 48 P442

13736 PULLIG, T. Inheritance of whorls in Cocker Spaniels; a preliminary report. J. Hered. 41:239-242. Ref. Sept.1950. 442.8 Am3

13737 SCHMOOK, A. Der teckel als gebrauchshund. Pirsch 2:667-669. Sept.1, 1950. 410 P66

13738 SMITH, A. C. Best Terrier of all. Field 196:835. Nov.11, 1950. 10 F45

13739 SMITH, A. C. Breeding your own gundog. Field 196:674. Oct.21, 1950. 10 F45

13740 SMITH, A. C. Development of the Chow. Field 196:745. Oct.28, 1950. 10 F45

13741 SMITH, A. C. Water Spaniels and Poodles. Field 196:641. Oct.14, 1950. 10 F45

13742 STREEVER, F. Deer Hounds. Hunting & Fishing 27(10):42-43. Oct.1950. 410 H922

13743 STREEVER, F. The Retriever. Hunting & Fishing 27(11):40-43. Nov.1950. 410 H922

13744 TRACY, T. H. The book of the Poodle. New York, Viking Press, 1950. 136 p. 48 T67B

13745 TREVITT, J. W. Old whines in new bottles. Wagging Tail 5(5):6. Oct.1950. 58.8 W12  
Standards for judging Cocker Spaniels.

13746 UTER, Welche bedeutung hat die siegerprüfung für den züchter? Pirsch 2:669-670. Sept.1, 1950. 410 P66

13747 WINGE, O. Inheritance in dogs, with special reference to hunting breeds. Ithaca, N.Y., Comstock, 1950. 153 p. 48 W72Ae

### Feeds and Feeding

13748 JACOBS, A. Zur hundeaufzucht. Pirsch 2:703-704. Sept.15, 1950. 410 P66  
Feeding.



Veterinary Medicine

- 13749 AJMERITO, G. Butyl maleate in canine skin treatments. (In Italian.) Prog. Vet. 5:597-598,601-603. Nov.1,1950. 41.8 P942  
Use in eczema, parasitic otitis, and sarcoptic mange.
- 13750 BISCHOFF, E. Einige fälle von leptospirose. Tierärztl. Umschau 5:291-292. Aug.1950. 41.8 T445 Dogs.
- 13751 BROUGH, E. M. Distemper in farm dogs. Victoria. Dept. Agr. J. 48:365-366. Aug.1950. 23 V66J Treatment.
- 13752 CHARITAT, L. La piroplasmose canine. Rustica 23:926. Oct.29,1950. 14 R92
- 13753 COMBEN, N. Some recent advances in the general anaesthesia of the dog. III. Brit. Vet. J. 106:427-445. Ref. Nov.1950. 41.8 V643
- 13754 CORRÊA, O. Canine trichocephalosis. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:81-82. Apr./June 1950. 9.2 R325  
Caused by Trichocephalus vulpis.
- 13755 CRONKITE, E. P., and others. A study of the hemorrhagic state in dogs after lethal dose of two million volt X-rays. J. Lab. & Clin. Med. 36:814. Nov.1950. 44.8 J8233
- B. Halpern, D. P. Jackson, and G. V. LeRoy, joint authors.
- 13756 ESPOUY, F. Les mises-bas difficiles chez la chienne. Acclimation 77:226. Oct.21,1950. 14 Ac2
- 13757 GAAFAR, S. M., and AMEEL, D. J. Incidence of helminths in some Kansas dogs. Kans. Acad. Sci. Trans. 53:328-330. Sept.1950. 500 K13T
- 13758 GEREBTZOFF, M. A., DALLEMAGNE, M. J., and PHILIPPOT, E. Plasmocytomes rénaux multiples et plasmocytose à la suite d'injections répétées de DDT au chien. Soc. de Biol. Compt. Rend. 144:1135-1137. Aug. 1950. 44.2 P21
- 13759 GORHAM, J. R. Beware of the dog! One carrying distemper can put a mink rancher out of business. Black Fox Mag. & Mod. Mink Breeder 34(7):32,40. Nov. 1950. 410 B56  
Similar title in Fur Trade J. Canada 28(3):20,48. Nov. 1950. 410 F965
- 13760 GÜNTHER, H. Was muss der hundeliebhaber von der staube wissen? Kleintierzüchter Tierbörse 4 (44):10. Sept.20,1950. 49 K672
- 13761 HARMS, H. F., HARMS, H. F., JR., and HARMS, G. R. Aureomycin ointment used in infections of the eye, ear, and skin in dogs and cats. Amer. Vet. Med. Assoc. J. 117:462-464. Dec.1950. 41.8 Am3
- 13762 HERMS, H. Über zwei fälle von morchelvergiftung [Helvella esculenta] beim hunde. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:161. Aug.1950. 41.8 B45
- 13763 HULIN, P., ROBINET, A. H., and RIVIÈRE, R. Un cas de spirocerose canine. French West Africa. Insp. Gen. de l'Elevage. B. des Serv. de l'Elevage et des Indus. Anim. 2(4):37-38. Oct./Dec.1949. 41.9 F88B  
Due to Spirocerca sanguinolenta.
- 13764 IRWIN, W. F. Feline practices. Kans. Vet. Med. Assoc. B. 7(9):2-4;(10):2-4. Sept.1950. 41.9 K133B
- 13765 MARTINONI, F. Hepatitis contagiosa canis. (In Italian.) Schweiz. Arch. f. Tierheilk. 92:655-657. Oct.1950. 41.9 Sch9  
English summary.
- 13766 MORA G., R. Digitalización. Colombia. U. Nac. Facul. de Med. Vet. y de Zootecnia. Rev. 19:246-248. Jan./July 1950. 41.8 R3214 Dogs.
- 13767 MORAWETZ, F. Verdacht auf bleivergiftung bei hunden und katzen. Wien. Tierärztl. Monatsschr. 37: 782-784. Nov.1950. 41.8 T345
- 13768 MOUTTE, P. La rage. Réveil Agr. 59:265-266. Sept.1,1950. 14 R322
- 13769 PITMAN-MOORE RESEARCH FARM. Bacitracin ointment in demodectic mange; a preliminary report. Allied Vet. 21(6):9-10. Nov./Dec.1950. 41.8 AL5  
Treatment of dogs infested with Demodex canis.
- 13770 ROSENKRANTZ, G. Trunculo-infiltrative anesthesia for operations on the external ear of the dog. (In Italian.) Prog. Vet. 5:537-538,541-543. Oct.1,1950. 41.8 P942  
English summary.

- 13771 ROSSI, R. P. Rabies decreasing - dog-bites increasing. (In Italian.) Prog. Vet. 5:559-560. Oct.15, 1950. 41.8 P942
- 13772 SANBORN, H. The rabies racket. Saint Fancier 82:1,3-4. Aug.1950. 48.8 Sa2
- 13773 SEVILLE, H. Le rachitisme du chien. Acclimation 77:261. Dec.9,1950. 14 Ac2
- 13774 TOEPFER, Darmparasiten beim hund. Pirsch 2:700-702,738-740. Sept.15-Oct.1,1950. 410 P66
- 13775 TOTH, L. A. Urinary rate determination by ureteral catheterization in conscious unoperated dogs. J. Urol. 64:737-742. Dec.1950. 44.8 J8234

Miscellaneous

- 13776 BERLIN, G. C. Is it futile to try? There's fun refuting a rumor. Amer. Kennel Gaz. 67(11):11,419-420. Nov.1950. 48.8 Am3  
Dog shows.
- 13777 BÜLOW, A. VON. Der gänsehund. Pirsch 2: 728-729. Oct.1,1950. 410 P66
- 13778 CANNON, I. Winterize your dog. Cocker Spaniel Visitor 12(11):18. Nov.1950. 48.8 C64
- 13779 GIGSTEAD, G. Mink farm dogs. Natl. Fur News 22(10):10,51. Nov.1950. 412.628 R59
- 13780 GREENHOW, S. Is the spectator a nuisance or asset? Here is how one of them pictures the situation. Amer. Kennel Gaz. 67(11):18-20,413. Nov.1950. 48.8 Am3  
Dog shows.
- 13781 HOFFMEISTER, E. Wie wir unsere jagd-hunde erziehen. Pirsch 2:773-774. Oct.14,1950. 410 P66
- 13782 HOYS, D. Shepherd's partner. Country Life [London] 108:1404-1405. Oct.27,1950. 80 C83
- 13783 KELLY, E. Care of nursing puppies. Cocker Spaniel Visitor 12(10):5-6. Oct.1950. 48.8 C64
- 13784 LOWRY, R. K. The art of housebreaking. All-Pets Mag. 21(11):39,42. Nov.1950. 48.8 AL5
- 13785 MEINERS. Die ausbildung des junghundes für die fährtenarbeit. Kleintierzüchter Tierbörse 4(43):7. Sept.10,1950. 49 K672
- 13786 MOUTTE, P. Ne prêtez jamais votre chien. Réveil Agr. 59:298. Oct.1,1950. 14 R322  
Care and training.
- 13787 MOUTTE, P. A propos de l'intelligence des chiens. Réveil Agr. 59:314-315. Oct.15,1950. 14 R322
- 13788 PEIRSOL, R. "One more person to love". don't let your dog think the new baby is a "rival". Amer. Kennel Gaz. 67(11):12-13,405-407. Nov.1950. 48.8 Am3
- 13789 RUTTKAY, V. Let's not lose our bounce; we can become much, much too serious about our dogs. Amer. Kennel Gaz. 67(11):16-17,407-408. Nov.1950. 48.8 Am3
- 13790 ST. CLAIR, H. Volunteer dogs. Ohio Conserv. B. 14(11):4-7. Nov.1950. 279.9 Oh330  
Hunting dogs.
- 13791 VOLLSTADT, M. Die saumeute. Pirsch 2: 626-628,664-666. (Cont.) Aug.15-Sept.1,1950. 410 P66
- 13792 WIMHURST, C. G. Train your dog. All-Pets Mag. 21(10):41,45. Oct.1950. 48.8 AL5
- 13793 ZAVODCHIKOV, P. A. Ovcharka na sluzhbe v kolchoze [Sheep dogs at work on collective farms]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 78 p. 48 Z1

FUR ANIMALS - PEN RAISEDBreeds and Breeding

- 13794 CLARKE, J. D. W. Practical tips on herd improvement. Fur Trade J. Canada 28(3):21-22. Nov.1950. 410 F965  
Chinchilla breeding.
- 13795 FREITAG, C. Stand und aufgaben der deutschen nerzzucht. Deut. Pelztierzüchter 24:125-127. July 25, 1950. 412.628 D48
- 13796 HAGER, E. H. Probleme und zuchtziele in der farb- und albino-sumpfbiberzucht. Deut. Pelztierzüchter 24:146-149. Aug.25,1950. 412.628 D48
- 13797 KULBACH, W. Zuchtbuchführung beim nerz. Deut. Pelztierzüchter 24:164-167. Sept.25,1950. 412.628 D48



13798 LAFOREST, J. E. Facts about the AzurBlu mink. Amer. Fur Breeder 23(5):16-17,56. Nov.1950. 410 Am33

13799 RONGE, H. Entwicklung und stand der chinchillazucht in Nordamerika. Deut. Pelztierzüchter 24: 128-131. July 25,1950. 412.628 D48

13800 SCHMIDT, F. Noch einmal: kurzhaarfuchs. Deut. Pelztierzüchter 24:170-171. Sept.25,1950. 412.628 D48

13801 ZIESKE, R. Kommt der silberfuchs wieder? Deut. Pelztierzüchter 24:141-146. Aug.25,1950. 412.628 D48

#### Feeds and Feeding

13902 ENDERS, R. K., and MERRITS, W. L. Mink production in relation to stilbestrol. Fur J. 16(7):4,10. Sept./Oct.1950. 412.628 F969

Effect on fertility of feeding minks with poultry waste containing "caponette" material.

Also in Black Fox Mag. & Mod. Mink Breeder 34(7): 27,41-44. Nov.1950. 410 B56; Amer. Natl. Fur & Mkt. J. 29(4):8,23;(5):10. Nov.-Dec.1950. 412.629 Am3M

13903 FUCHS, B. A. High feeding standards tend to produce quality pelts. Black Fox Mag. & Mod. Mink Breeder 34(6):24,38-39. Oct.1950. 410 B56

Foxes and minks.

13904 OTT, G. L. Dynamite in the freezer. Amer. Fur Breeder 23(5):14-15,58,60,62. Nov.1950. 410 Am33

Feeding mink with stored meat and fish.

13905 ROBINSON, J. L. Fur farming thrives on fish waste. News Farmer Coop. 17(8):6,14. Nov.1950. 166.2 N47

The Northwest Fur Breeders Cooperative of Seattle.

13906 ZETTY, M. How to hand feed chinchilla babies. Black Fox Mag. & Mod. Mink Breeder 34(7):30, 49,53-54. Nov.1950. 410 B56

#### Veterinary Medicine

13807 FRICK, H. Schwierigkeiten zur wurfzeit als folge eines gestörten stoffwechsels. Deut. Pelztierzüchter 24:167-169. Sept.25,1950. 412.628 D48

Foxes.

13908 GORHAM, J. R., and DEJONG, D. H. Dehydration and salt poisoning in mink. Amer. Fur Breeder 23 (6):12,48,50,52. Dec.1950. 410 Am33

13909 MOMBORG-JORGENSEN, H. C. Sore feet and penicillin. (In Danish.) Dansk Pelsdyravl 13:198. Sept. 1,1950. 412.628 D23

Young foxes.

13910 SHILLINGER, J. E. Fighting disease among fur bearers. Brit. Fur Trade 32:449. Nov.1950. 412.628 B77

13911 SPREHN. Aus der Forschungsstelle für Pelztierzucht Burgbernheim; die krankheiten der pelztier in der ersten jahreshälfte 1950. Deut. Pelztierzüchter 24: 127-128,149-150. July 25-Aug.25,1950. 412.628 D48

13912 SPREHN. Aus der Forschungsstelle für Pelztierzucht Burgbernheim; zum diesjährigen wurmbefall der fuchse. Deut. Pelztierzüchter 24:169-170. Sept.25, 1950. 412.628 D48

#### Miscellaneous

13913 BOWNESS, E. R. Advice to ranchers. Amer. Natl. Fur & Mkt. J. 29(4):11,22-23. Nov.1950. 412.629 Am3M

13914 BOWNESS, E. R. A penny for your pelts. Fur Trade J. Canada 28(3):12-13,35-36. Nov.1950. 110 F965

Care of minks for fur production.

13915 CZERNY, G. Nutria im siedlergarten. Siedler 5(9/10):4-5. Sept./Oct.1950. 19 S11

13916 KRINGS, E. Die frankfurter züchtertagung 1950. Deut. Pelztierzüchter 24:121-125. July 25,1950. 412.628 D48

13917 NOBLE, P. Fur farming as I see it. Amer. Natl. Fur & Mkt. J. 29(4):9,20. Nov.1950. 412.629 Am3M

13918 RAUDSANDMOEN, G. Fur quality, exhibitions and standard committee. (In Norwegian.) Norsk Pelsdyrbl. 24:285-287. Sept.5,1950. 412.628 N812

Fox.

13919 STANGL, P. Pen panorama. Amer. Fur Breeder 23(6):15-18,53-55. Dec.1950. 410 Am33

Chiefly care.

13920 STEVENSON, J. H. F. Housing mink. 9. Brit. Fur Trade 32:448,449. Nov.1950. 412.628 B77

13921 WALTER, H. H. Wie steht es um die fuchszucht? Osterr. Kleintierzüchter 1950:839-840. Oct.1950. 49 Os7

Silver fox.

#### HORSES AND MULES

##### Breeds and Breeding

13822 BAYLISS, M. F. The Morgan horse. Farm Q. 5(4):74-75. Winter 1951. 6 F22995

13823 BINSBERGEN, P. B. VAN. Agricultural harness horse breeding in middle and southern Holland. (In Dutch.) Plattelands-Post 6(41):6. Oct.21,1950. 12 P69

13824 BOWER, A. Stallion management at Claiborne. Blood-Horse 60:1205-1206,1208,1210. Dec.2,1950. 42.8 T392

13825 CASTLE, W. E. Genetics of the Palomino horse. Blood-Horse 60:1373-1374,1384. Dec.16,1950. 42.8 T392

13826 COCHRAN, K. The C.T.B.A. [California Thoroughbred Breeders Association] it's history. Thoroughbred Calif. 11:440,468,486. (Cont.) Dec.1950. 42.8 T393

13827 FISCHER. Haflinger pferde im examen. Tierzüchter 2:413-414. Aug.5,1950. 49 T445

13828 FLETCHER, C. Hybrid hellions. West. Live Stock 36(3):14,23,126,128,133,136. Oct.1950. 49 W523

Mules.

13829 FORBES, R. H. They really work; versatile Appaloosas earn their keep as stock horses. West. Live-stock J. 28(59):166,170,172. Oct.15,1950. 6 F2278

13930 FORSHAW, T. Shire horse history; Lancashire's part in breed development. Roy. Lancashire Agr Soc. J. 1950:23-28. 10 L22

13931 HAGERUP, A. Horse breeding in North Trøndelag. (In Norwegian.) Landbrukstidende 56:751, 754-755. Sept.20,1950. 11 L236

13932 THE IMPORTANCE of color. Thoroughbred Rec. 152(20):45. Nov.11,1950. 42.8 T39

Genetics.

13933 KALININ, V. I. Zootehnicheskaya rabota v konevodstve na printsipakh michurinskoi biologii [Zootechnical work in horse breeding according to the principles of Michurinite biology]. Kursk, Kurskaya Pravda, 1950. 19 p. 42 K123Z

13934 KARLSEN, G. G., and VOETIKOV, A. B. Training and testing Russian Ardennais Horses by a new system. (In Russian.) Konevodstvo 20(5):29-35. May 1950. 42.8 K832

13935 KOLMOGOROV, A. A. Practices on S. M. Budennyi stud-farm in Western-Kazakhstan Region. (In Russian.) Konevodstvo 20(5):6-8. May 1950. 42.8 K832

13936 KOSHEL', M. M. From 409 mares—401 foals. (In Russian.) Konevodstvo 20(5):40-41. May 1950. 42.8 K832

13937 LECLERC, M. La race chevaline canadienne. Digeste de l'Eleveur 5(3):19-24. Nov.1950. 49 D56

13938 RATTENHUBER, E. Erfahrungen mit dem follikelreifungshormon equoman bei der anaphrodisie von stuten. Deut. Tierärztl. Wchnschr. 57:334-336. Oct.15, 1950. 41.8 D482

13939 RIJAZANTSEVA, N. M. Increasing activity of best stallions in natural mating. (In Russian.) Konevodstvo 20(5):19-21. May 1950. 42.8 K832

13940 RIEU-PEYROUX. Le cheval anglo-arabe pur sang et demi-sang du Sud-Ouest et du Limousin. Unité Paysanne 5(257):3. Oct.28,1950. 14 Un3

13941 RULIEN, MRS. W. Intermountain Arabs—Idaho boasts fast growth in registered Arabians. West. Livestock J. 28(64):111,113-116. Nov.15,1950. 6 F2278

13942 RYLOV, I. E. Results of conducting the horse-breeding campaign on the basis of preliminary calculations of mating period. (In Russian.) Konevodstvo 20(5):16-18. May 1950. 42.8 K832

13943 SAINT-QUENTIN, M. Un bon cheval de culture l'Ardennais. Rustica 23:936. Nov.5,1950. 14 R92

13944 SCHAPS, T. Playing with pedigrees. Thoroughbred Calif. 11:426,472. Dec.1950. 42.8 T393

13945 SHETLAND PONY STUD-BOOK SOCIETY. The Shetland Pony stud-book, v. 50. Lewes, Baxter, 1950. 71 p. 42.9 Sh5



13946 SHETTLESWORTH, J. Keep it in the family! Thoroughbred Calif. 11:428-429, 473-475. Dec. 1950. 42.8 T393

Inbreeding.

13947 SMALE, B. Arabs bloom at Pomona. West. Livestock J. 28(64):104-107. Nov. 15, 1950. 6 F2278

13948 STEELE, D. G. The elements of genetics. Blood-Horse 60:1217, 1276. Dec. 2, 1950. 42.8 T392

Thoroughbred horses.

13949 STEWART, F. R. Your breeding stallion. Nebr. Cattleman 7(2):30. Oct. 1950. 43.8 N27

13950 TAYLOR, L. Arab blood and the master breeder [George A. Frank]. West. Livestock J. 28(59):174, 176-177. Oct. 15, 1950. 6 F2278

13951 TAYLOR, L. Short horse rebirth; present popularity of Quarter Horses is backed with strong signs of permanency. West. Livestock J. 28(59):180-182, 184. Oct. 15, 1950. 6 F2278

13952 WHITE, C. A study of the color distribution of the parents of golden saddle horses. Horse World 8(10):39. Oct. 1950. 42.8 I09

13953 WHITLOCK, R. Prospects for heavy horses. Field 196:290. Aug. 19, 1950. 10 F45

13954 ZHIVOTKOV, KH. Gynecological examination of reproduction and artificial insemination of horses. (In Russian.) Konevodstvo 20(5):21-25. May 1950. 42.8 K832

#### Veterinary Medicine

13955 ARTIAEV, A. A. A rare case of deformity. (In Russian.) Konevodstvo 20(5):42. May 1950. 42.8 K832

Horse born with three legs.

13956 BAUMANN, R., and RUDOLF, J. Mäusegerste (Hordeum murinum) als wahrscheinliche ursache des verblutungsstodes eines pferdes aus der arteria maxillaris externa. Wien. Tierärztl. Monatsschr. 37:737-740. Nov. 1950. 41.8 T345

13957 CHRISTL, H. Ein angeborenes ovarioblastom als geburtshindernis. Tierärztl. Umschau 5:276-277. Aug. 1950. 41.8 T445

Mares.

13958 COLE, H. H., CLEGG, T. M., and BODA, J. M. Studies on the endometrial cups of the pregnant mare. (Abs.) J. Anim. Sci. 9:678. Nov. 1950. 49 J82

13959 ERRINGTON, B. J. Pertaining to equines; latest developments in the fight being waged by the veterinary scientists against intestinal parasites. Thoroughbred Calif. 11:430-431, 476. Dec. 1950. 42.8 T393

13960 ESFUTIN, A. V. Pathogenesis and treatment of terminal strictures of the urethra in horses. (In Russian.) Veterinarifa 27(8):44-46. Aug. 1950. 41.8 V6426

13961 ESQUEL, Tendinitis. Rev. Ganad. [Habana] 10(11):31-33. Nov. 1950. 49 R321

13962 FAUSTKA, K. Das epiphysan G. Richter bei einem pferde mit starrkrampf. Wien. Tierärztl. Monatsschr. 37:778-779. Nov. 1950. 41.8 T345

13963 GEISSLER, S. Vereinfachte methode zur hormonalen feststellung der stutenträchtigkeit durch die blutuntersuchung (nachtrag). Monatsh. f. Vetmed. 5:294. Nov. 1950. 41.8 M742

13964 HABERSANG. Über die provokation der infektiösen anämie der pferde durch SO<sub>2</sub>-gasbehandlung. Monatsh. f. Vetmed. 5:289-291. Nov. 1950. 41.8 M742

13965 HENNING, W. Thalliumvergiftung bei drei pferden. Tierärztl. Umschau 5:292-293. Aug. 1950. 41.8 T445

13966 HUTTEN, H. Verlustreiche pferdeerkrankungen nach futter, das durch tierkadaver vergiftet war. Hannoversche Land- u. Forstwirt. Ztg. 103:673. July 29, 1950. 18 H194

13967 JASPER, D. E., and CUPPS, P. T. Cecostomy in the horse; a practical experimental procedure. Amer. Vet. Med. Assoc. J. 117:456-458. Dec. 1950. 41.8 Am3

Study of digestion by means of cecal fistula.

13968 KRYLOV, A. M., and SALEI, P. I. Myt - zaraznaya bolezni' lozhadei [Strangles - infectious disease of horses]. Voronezh, Voronezhskoe Obl. Kn-vo, 1950. 17 p. (Biblioteka kolkhoznogo zhivotnovoda) 41 K94

13969 KRYLOV, A. M. Treatment of necrosis of the soft cartilage in horses. (In Russian.) Veterinarifa 27(8):47. Aug. 1950. 41.8 V6426

13970 LEONHARDT, H. Zur aufhebung der decksperrre bei den beschläuseuchansteckungsverdächtigen pferden. Monatsh. f. Vetmed. 5:260-261. Oct. 1950. 41.8 M742

13971 LIESS, J. Stuten ohne muttermund? Deut. Tierärztl. Wchnschr. 57:329-330. Oct. 15, 1950. 41.8 D482

13972 NEUMANN-KLEINPAUL, K. Über die harnentnahme bei pferd und rind. Monatsh. f. Vetmed. 5:294-295. Nov. 1950. 41.8 M742

13973 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF ANIMAL INDUSTRY. Common internal parasites of horses may cause ill-health. Their recognition and treatment. N. S. Wales. Dept. Agr. Div. Anim. Indus. Dis. Anim. L. 15, 7 p. 1949. 41.9 N473D

13974 POINSOT, L., and SIDIBE, G. Sur l'emploi de la tyrothricine dans le traitement d'une plaie d'éte. French West Africa. Insp. Gén. de l'Elevage. B. des Serv. de l'Elevage et des Indus. Anim. 2(4):35-36. Oct./Dec. 1949. 41.9 F88B

Horse.

13975 RASTIAPIN, I. T. Case of abnormality of cervix uteri in a mare. (In Russian.) Konevodstvo 20(5):41-42. May 1950. 42.8 K832

13976 ROZHKOV, G. I. On transmission of infectious anemia virus among horses. (In Russian.) Veterinarifa 27(8):10-15. Aug. 1950. 41.8 V6426

13977 RYDBERG, C. Control of infectious anemia. (In Swedish.) Skand. Kreatursförsäkringsbolaget. Månadsblad 28:97-98. Sept. 1950. 49.9 Ski

Horses.

13978 SAINT-QUENTIN, M. Les rares du pied chez le cheval. Rustica 23:915, 923. Oct. 29, 1950. 14 R92

13979 SCHLEITER, H. Beitrag zur infektiösen laryngotracheobronchitis der pferde. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:160-161. Aug. 1950. 41.8 B45

13980 SCHOENE, W., and KLEIN, E. Vereinfachung bei massenuntersuchungen auf beschläuseuche. Monatsh. f. Vetmed. 5:293-294. Nov. 1950. 41.8 M742

Complement fixation reaction.

13981 SCHULTZE, E. La encefalomyelitis equina. Colombia. U. Nac. Facul. de Med. Vet. y de Zootecnia. Rev. 19:235-244. Jan./July 1950. 41.8 R3214

13982 SEIBEL, L. Zur epidemiologie und bekämpfung der ansteckenden blutarmut des pferdes. Tierärztl. Umschau 5:278-282. Aug. 1950. 41.8 T445

13983 SHCHUREVSKIĬ, V. E., and POPOV'ANTS, M. N. Testing the allergic preparation, "anemin-VIEV," on healthy horses and on those affected with infectious anemia. (In Russian.) Veterinarifa 27(8):16-19. Aug. 1950. 41.8 V6426

13984 VAITSMAN, J. Founder in animals. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:111. Apr./June 1950. 9.2 R325

Horses.

13985 WOLTER, H. Individuelle kolikbehandlung mit homöopathischen medikamenten. Deut. Tierärztl. Wchnschr. 57:304-305. Oct. 1, 1950. 41.8 D482

Horses.

#### Miscellaneous

13986 AMERICAN HORSE SHOWS ASSOCIATION. The American Horse Shows Association rule book, 1950. New York, 1950. 212 p. 42.9 Am397

13987 ANASAGASTI, D. H. Balance-herraje-entrenamiento. Soc. Rur. Argentina. An. 85(7):34-38. July 1950. 9 Sol

Horses.

13988 ANDERSON, C. W. Horses are folks. New York, Harper, 1950. 90 p. 42 An23H

13989 BROEKHUYZEN, A. VAN. The 55th national draft horse show in Brussels. III. (In Dutch.) Nieuwe Veldbode 17:88-89. Nov. 2, 1950. 12 V542N

13990 BUHLE, P. Pferdeleistungsschauen im maschinenzeitalter! Schnelligkeit wird von der maschine bestimmt! Tierzüchter 2:508-510. Oct. 5, 1950. 49 T445

13991 FEHRINGER, O. Unser pferd; das illustrierte pferdebuch für alle. Berlin, Palmen-Verlag, 1950. 128 p. 42 F323



13992 FOREMAN, M. Horse handling science. 27. Cattleman 37(7):30-31, 67. Dec. 1950. 49 C29

13993 IROSHNIKOV, M. M. New methods of testing saddle horses. (In Russian.) Konevodstvo 20(5):35-38. May 1950. 42.8 K832

13994 IVANOV, A. Horse raising farm of Pobeda Kolkhoz. (In Russian.) Kolkhoz. Proizvodstvo 10(7):43-44. July 1950. 281.8 K83

13995 KRASNIKOV, A. S. Types of mountain horses in Northern Caucasus. (In Russian.) Mosk. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriazeva. Dok. 11:134-138. 1949. 20 M857

13996 KRÜGER, G. Der partielle albinismus der traber als identitätsmerkmal. Monatsh. f. Vetmed. 5:286-288. Nov. 1950. 41.8 M742

13997 OERTZEN, H. U. V. Endlich wieder rheinische provinzial-pferde-ausstellung. Tierzüchter 2:406-409. Aug. 5, 1950. 49 T445

13998 PABST. Brauchen wir pferdeleistungs-schauen? Hannoversche Land- u. Forstwirt. Ztg. 103: 776-777. Sept. 2, 1950. 18 H194

13999 PABST. Pferdeleistungsschau auf dem Do-brock. Hannoversche Land- u. Forstwirt. Ztg. 103:752. Aug. 26, 1950. 18 H194

13900 REEVES, F. Cutting horses come to the front. West. Livestock J. 28(59):152-153, 155-156. Oct. 15, 1950. 6 F2278

13901 SCHULTE-SIENBECK. 14. provinzial-pferde-leistungsschau. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1271-1273. Sept. 14, 1950. 18 L2346

13902 SROUT, D. B. Juzgando caballos. Rev. Ganad. [Habana] 10(11):9-13. Nov. 1950. 49 R321

13903 STARTSEV, N. F. Practices of collective farms in raising young horses under pasture conditions. (In Russian.) Konevodstvo 20(5):26-28. May 1950. 42.8 K832

13904 VIAL, J. M. Getting the most from old dobbin. Atherton Vet. Supply Co. Capital Forecast. 1:3. July 1950. 41.9 A14

13905 VIL'CHINSKIY, A. D. Desirable type of agri-cultural horse for the forest-steppe zone of Ukrainian SSR. (In Russian.) Konevodstvo 20(5):8-12. May 1950. 42.8 K832

13906 VOLKMANN, K. Hengstparade in Warendorf. Deut. Viehhandl. 5(39):1. Oct. 6, 1950. 49 D482

13907 WERNICKE, E. El terror de los aborígenes americanos a los caballos. Rev. Ganad. [Habana] 10(10): 56-57, 64. Oct. 1950. 49 R321

13908 WILLIAMSON, C. O. Breaking and training the stock horse. New Plymouth? Idaho, 1950. 89 p. 42 W67

## LABORATORY ANIMALS, SMALL

### Breeds and Breeding

13909 MARSH, A. F. The Panda hamster. All-Pets Mag. 21(11):72, 74. Nov. 1950. 48.8 AL5

13910 MEHNER, A. Bisherige ergebnisse eines langjährigen inzuchtversuchs. Z. f. Tierzücht. u. Zücht-biol. 58:339-350. Mar. 1950. 442.8 Z35

13911 WESTPHAL, W. Über die brauchbarkeit des Goldhamsters als versuchstier. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:164-165. Aug. 1950. 41.8 B45

### Miscellaneous

13912 FARRIS, E. J., ed. The care and breeding of laboratory animals. New York, Wiley, 1950. 515 p. 411 F24

13913 MOTHERSPAW, T. K. What is a hamster? Amer. Small Stock Farmer 35:16. Oct. 1950. 48.8 J82

13914 PETZSCH, H. Prognosen und probleme einer rentablen farmzüchtung des hamsters (Cricetus cricetus L.). Deut. Pelztierzüchter 24:152-155. Ref. Aug. 25, 1950. 412.628 D48

13915 VAN LENNEP, D. Ferrets. Estate Mag. 50: 399-400. Oct. 1950. 10 Es8  
Care on the farm.

## POULTRY

### Breeds and Breeding

13916 ABEL, P. M. Broad Breasted Bronze. Coun-try Guide 69(10):9, 42-43. Oct. 1950. 7 G76

13917 ATKINS, H. The Jersey Black Giants. Amer. Poultryman 13(8):12. Dec. 1950. 47.8 So86

13918 BELL, A. E., MOORE, C. H., and WARREN, D. C. Systems of breeding designed to give maximum heterosis in chickens. (Abs.) Poultry Sci. 29:749. Sept. 1950. 47.8 Am33P

13919 BERG, L. R. Shell quality can be bred for. Canada Poultryman 37(11):25-26. Nov. 1950. 47.8 C166

13920 BONNET, L. Self-selective breeding acts as a filter. Poultry [London] 107:307. Oct. 17, 1950. 47.8 P869

13921 BRILES, C. O., BRILES, W. E., and QUISEN-BERRY, J. H. The linkage relationships between the loci producing the blood group antigens and other marked loci. (Abs.) Poultry Sci. 29:750-751. Sept. 1950. 47.8 Am33P

13922 BRILES, W. E., BRILES, C. O., and QUISEN-BERRY, J. H. Three loci affecting the blood group anti-gens of the chicken. (Abs.) Poultry Sci. 29:750. Sept. 1950. 47.8 Am33P

13923 BUCHWALD. Welche hühnerrasse für den bauernhof? Württemb. Wchnbl. f. Landwirt. 117:800. Aug. 26, 1950. 18 W96

13924 BUGDEN, W. A. The Silkie Bantam. Bird World 7:279-280. June 1950. 413.8 B533

13925 COLEMAN, T. H. A comparative study of crossbreds versus purebreds. (Abs.) Poultry Sci. 29: 754. Sept. 1950. 47.8 Am33P

13926 COLLINS, W. M., BLISS, C. I., and SCOTT, H. M. Genetic selection for breast width in a strain of Rhode Island Reds. Poultry Sci. 29:881-887. Ref. Nov. 1950. 47.8 Am33P

13927 CONWAY, F. F. The Orpington breed. Amer. Poultryman 13(8):10-10A, 80. Dec. 1950. 47.8 So86

13928 DAVEY, A. D. The accent is on breeding. Canad. Poultry Rev. 74(11):21, 23. Nov. 1950. 47.8 C16

13929 DEAN, A. L. Bantams for city or town. All-Pets Mag. 21(11):64-65. Nov. 1950. 48.8 AL5

13930 DENNIS, R. B. The Hansennes. Amer. Racing Pigeon News 66(12):22-23. Dec. 1950. 47.8 H75

13931 DICKERSON, G. E., and others. Heterosis from crossbreeding and from outbreeding. (Abs.) Poul-try Sci. 29:756. Sept. 1950. 47.8 Am33P

Q. B. Kinder, W. F. Krueger and H. L. Kempster, joint authors.

13932 DREESEN, L. J., WIEGERS, H. L., and MUS-SEHL, F. E. Some comparisons of Beltsville White turkeys with Broad Breasted Bronze turkeys and their reciprocal crosses. (Abs.) Poultry Sci. 29:756-757. Sept. 1950. 47.8 Am33P

13933 DUCHENE, H. Un élevage industriel de Leg-horn pres de Paris. Rustica 23:829, 833. Oct. 1, 1950. 14 R92

13934 EL-IBIARY, H. M., and SHAFFNER, C. S. A genetic response to induced goiter in chickens. J. Hered. 41:246-247. Sept. 1950. 442.8 Am3

13935 ENGELMANN. Aus der geschichte der geflügelzucht. Thür. Kleintierzüchter 4:226-227. Aug. 20, 1950. 49 T42

13936 ESSARY, E. O., MOUNTNEY, G. J., and GOFF, O. E. Conformation and performance in standardbred and crossbred broilers. (Abs.) Poultry Sci. 29:757. Sept. 1950. 47.8 Am33P

13937 FINSTERBUSCH, C. A. Brazilian game fowl. Grit & Steel 52(8):34-39. Dec. 1950. 47.8 G88

13938 FREUND, P. Erfahrungen mit den Sussex-hühnern. Deut. Wirtgeflügelzucht. 2:291. Sept. 23, 1950. 47.8 P483

13939 GARREN, H. W., and SHAFFNER, C. S. The effect of storage temperature and time on fertilizing capacity of cock semen. (Abs.) Poultry Sci. 29:758. Sept. 1950. 47.8 Am33P

13940 GERHARDT, E. Sind leistungszuchten auch heute noch aktuell? Kleintierzüchter Tierbörse 4(42):8. Sept. 1, 1950. 49 K672

Poultry.  
13941 GLAZENER, E. W., and BLOW, W. L. Broiler performance of inbred cross combinations. (Abs.) Poultry Sci. 29:759. Sept. 1950. 47.8 Am33P

13942 GOWE, R. S. The effect of different doses of semen on the duration of fertility in fowl. (Abs.) Poultry Sci. 29:760. Sept. 1950. 47.8 Am33P

13943 GROW, O. Ducks and geese. Amer. Poultry-man 13(8):32, 54, 56-57, 59-61. Dec. 1950. 47.8 So86  
Breeds and judging.



- 13944 GUERANDE, C. Alsaciennes; Ardennaises. *Rustica* 23:918,923. Oct.29,1950. 14 R92
- 13945 GUHL, A. M. Measurable differences in the sexuality of cocks. (Abs.) *Poultry Sci.* 29:760-761. Sept.1950. 47.8 Am33P
- 13946 HALE, M. Pullet breeding is not all wrong. *Poultry World* 87:240. Nov.9,1950. 47.8 P8682
- 13947 HANSEN, H. J. Making up breeding pens. *Canada Poultryman* 37(11):18-19. Nov.1950. 47.8 C166
- 13948 HARDY, L. M. Red Jungle Fowl. *Grit & Steel* 52(8):17-18. Dec.1950. 47.8 G88
- 13949 HARPER, J. A. Artificial lighting as affecting reproduction in turkey hens. *Canada Poultryman* 37(11):27-28. Nov.1950. 47.8 C166
- 13950 HEGER, E. Erfahrungen mit den New-Hampshires in Österreich. *Pflug* 3:177-179. Sept.1950. 19 P48
- Poultry.
- 13951 HEITZ, T. W. The Beltsville White turkey—a year 'round business. *Soeast. Poultryman* 3(10):9,17-18. Oct.1950. 47.8 So872
- Turkey industry.
- Also in *Va. Poultryman* 4(10):15,80. Oct.1950. 47.8 V812
- 13952 HEPBURN, J. M. Sydney Silver Wyandotte expert; Granville breeder has own breeding method for dwarfing big fowls. *Austral. Farm & Home* 59(8):107-108. Aug.1,1950. 23 Au7
- 13953 HILGER, R. Viel lärm um nichts bei unseren Rhodeländern. *Kleintierzüchter Tierbörse* 4(38):1. Aug.5,1950. 49 K672
- 13954 HILL, A. T. The hatcheryman's opportunity. *Canad. Poultry Rev.* 74(11):27,29,31. Nov.1950. 47.8 C16
- Breeding programs.
- 13955 HOLMES, R. H. Consider the male; too many breeders select their cock-birds too late: now is not too early to plan for spring. *Farmers Wk.* [London] 33(19):71. Nov.10,1950. 10 F2226
- 13956 HOUSH, C. C. How to select turkey breeders. *Va. Poultryman* 4(10):21,71-74. Oct.1950. 47.8 V812
- 13957 HUTCHINGS, R. S. Brown eggs from any breed soon? 2. *Poultry* [London] 107:378. Nov.7,1950. 47.8 P869
- 13958 HUTT, F. B. Cross-breeding and hybrid vigour. *Poultry* [London] 107:438. Nov.28,1950. 47.8 P869
- 13959 HUTTON, J. RIR Bantams. *All-Pets Mag.* 21(10):65,67. Oct.1950. 48.8 AL5
- 13960 JAAP, R. G., RENARD, M. M., and BUCKINGHAM, R. D. Dressed and eviscerated meat yields from chickens at twelve weeks of age. *Poultry Sci.* 29:874-880. Nov.1950. 47.8 Am33P
- Heritable differences.
- 13961 JASPER, A. W. Storage studies of diluted cock semen for use in artificial insemination of chickens. *Poultry Sci.* 29:812-817. Ref. Nov.1950. 47.8 Am33P
- 13962 JEFFERS, F. H. Breed improvement. *Poultry Press* 37(2):3. Nov.23,1950. 47.8 P8643
- 13963 JEFFERS, F. H. The saga of the Partridge Cochín. *Poultry Press* 37:9,18. Nov.9,1950. 47.8 P8643
- 13964 JEFFREY, F. P. Breeding for light feather color. *Broiler Growing* 1(4):11,39-41. Dec.1950. 47.8 B782
- 13965 JEROME, F. N. Our record of performance policy keeps pace with breeding knowledge. *Canad. Poultry Rev.* 74(11):31-33. Nov.1950. 47.8 C16
- 13966 JONES, D. G., and KOHLMAYER, W. The inheritance of an abnormal feather condition (wooly) in White Plymouth Rock chickens. (Abs.) *Poultry Sci.* 29:766. Sept.1950. 47.8 Am33P
- 13967 KOBERGER, F. Unsere strassertauben. *Osterr. Kleintierzüchter* 1950:822. Sept.1950. 49 Os7
- 13968 LABORDE-BOIS, P. La producción huevera y la selección. II. *Cult. Mod.* 33:331-332. Sept.1950. 15 C89
- 13969 LERNER, I. M. Population genetics and animal improvement, as illustrated by the inheritance of egg production. *Cambridge, U. Press*, 1950. 342 p. Ref. (Cambridge Biol. Studies) 443 L56
- 13970 LLOYD, A. Review of the results obtained from ten years' breeding work at U. B. C. [University of British Columbia]. *Canada Poultryman* 37(11):4-6,29-30. Nov.1950. 47.8 C166
- 13971 LORENZ, F. W., CAVOULAS, M., and CARSON, J. D. Deposition of P<sup>32</sup> in cock spermatozoa. (Abs.) *Poultry Sci.* 29:769. Sept.1950. 47.8 Am33P
- 13972 MCCARTNEY, M. G. The physiology of reproduction in turkeys. I-II. (Abs.) *Poultry Sci.* 29:770-771. Sept.1950. 47.8 Am33P
- I, Effect of methods of mating on fertility and hatchability; II, The degree and duration of fertility in broody and non-broody pullets.
- 13973 MACILRAITH, J. J. Feed maintenance ration to help increase fertility of big toms. BBB toms tend to overweight, bad for breeding. *Turkey World* 25(11):65, 69-70. Nov.1950. 47.38 T84
- 13974 MCMURTRIE, E. C. Breeding heads the industry. *Canad. Poultry Rev.* 74(11):23,25. Nov.1950. 47.8 C16
- 13975 MACPHERSON, B. W. Breeding applied to meat production. *Canad. Poultry Rev.* 74(11):25,27. Nov.1950. 47.8 C16
- 13976 MARSDEN, S. J., and MOORE, S. A. Your guide for the selection of breeding turkeys. *Amer. Poultryman* 13(7):8-9,17. Nov.1950. 47.8 So86
- 13977 MAYER, F. Von der schönheitsbrieftaube bis zur deutschen schautaube. *Thür. Kleintierzüchter* 4:227-228. Aug.20,1950. 49 T42
- 13978 MOORE, C. H., BELL, A. E., and WARREN, D. C. A study of predictability of combining values of inbred lines. (Abs.) *Poultry Sci.* 29:772. Sept.1950. 47.8 Am33P
- 13979 MUELLER, C. D. A comparison of commercial inbred-hybrids and first generation crossbreds. (Abs.) *Poultry Sci.* 29:773. Sept.1950. 47.8 Am33P
- 13980 MÜNTER, W. Welsamer—immer noch sehr begehrt. *Kleintierzüchter Tierbörse* 4(43):1-2. Sept.10, 1950. 49 K672
- 13981 PERU. MINISTERIO DE AGRICULTURA. SECCION PROPAGANDA, BIBLIOTECA Y PUBLICACIONES. Incubación, cría y recría. Lima, 1949. 49 p. 47 P433
- 13982 PLUNKETT, D. C. I still believe Nature is a breeder. *Gamecock* 13(7):24. Nov.1950. 47.8 G142
- 13983 REINHART, B. An eye to the future. *Canad. Poultry Rev.* 74(11):34. Nov.1950. 47.8 C16
- Poultry breeding.
- 13984 RITZHAUPT, L. H. A short history of the [American] Standard of Perfection. *Amer. Poultryman* 13(8):9. Dec.1950. 47.8 So86
- 13985 ROOS, M. J. On the inbreeding problem. II. (In Dutch.) *Pluimveeteelt* 3(21):4-5. Sept.29,1950. 47.8 P722
- Poultry.
- 13986 SCHEIDING, C. Die Chabos, ein liebhaberhuhn Geflügelhof 13:639-641. Sept.29,1950. 47.8 G276
- 13987 SCHILLING, A. O. The importance of production character in judging economic breeds. *Amer. Poultryman* 13(8):23,25-26. Dec.1950. 47.8 So86
- 13988 SCHLAMP, B. Die künstliche brut und aufzucht der Perlhühner. *Deut. Wirtgeflügelzucht*. 2:266-267. Aug.12,1950. 47.8 D483
- 13989 SHAPOVALOV, I. A. Development of new breed of ducks. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 11:127-129. 1949. 20 M857
- 13990 SHRADER, H. L. Economic value of standard bred poultry. *Amer. Poultryman* 13(8):19-21,64. Dec.1950. 47.8 So86
- 13991 SMITH, E. Y. Turkey breeding's a challenge. *Poultry Impr. Bd. N. Y. Ybk.* 1950/51:4,88-89. 47.9 N484
- 13992 SMITH, P. C. A plea for the Brown Leghorn, the breed with a future in the Union. *So. African Poultry, Pigeon & Bird Mag.* 77(465):12. Oct.1950. 47.8 So83
- 13993 STEPHENSON, A. B., and NORDSKOG, A. W. Influence of inbreeding on egg production in the domestic fowl. (Abs.) *Poultry Sci.* 29:781. Sept.1950. 47.8 Am33P
- 13994 STODEL, A. M. The Australorp. *Amer. Poultryman* 13(8):14-15. Dec.1950. 47.8 So86
- 13995 STRANSKY, E. Aus erbbiologischen untersuchungen auf dem kleintierhof. *Osterr. Kleintierzüchter* 1950:819. Sept.1950. 49 Os7
- Poultry.
- 13996 TOMEY, A. He who hesitates. *Farmers Wk.* [London] 33(21):71. Nov.24,1950. 10 F2226
- Poultry breeding.



- 13997 WALLACE, M. C. Brahmas. Amer. Poultryman 13(8):16-18. Dec.1950. 47.8 So86
- 13998 WEAVER, L. E. Want a yardstick for inbreds? Poultry Impr. Bd. N. Y. Ybk. 1950/51:28,92,94. 47.9 N484
- 13999 WIEGERS, H. L., DRESEN, L. J., and MUSSEHL, F. E. A progress report on the use of diluted turkey semen in the artificial insemination of turkeys. (Abs.) Poultry Sci. 29:784-785. Sept.1950. 47.8 Am33P
- 14000 WILKINS, S. J. Rearing and feeding the Muscovy duck. Victorian Poultry J. 37(3):37,39,41. Oct.2,1950. 47.8 V662
- 14001 ZURTH. Trommeltauben, ihre geschichte, probleme und arten. Kleintierzüchter Tierbörse 4(42):4-5. Sept.1,1950. 49 K672

### Feeds and Feeding

- 14002 ACKERSON, C. W., and others. The utilization of food elements by growing chicks. XII. The effect of additions of iodocasein and vitamin concentrate to the ration. Poultry Sci. 29:640-643. Sept.1950. 47.8 Am33P
- R. L. Borchers, J. E. Temper and F. E. Mussehl, joint authors.
- 14003 ADAMS, J. L., MCGIBBON, W. H., and CASIDA, L. E. The effect of orally administered synthetic estrogens on Single Comb White Leghorn pullets. Poultry Sci. 29:666-671. Ref. Sept.1950. 47.8 Am33P
- 14004 ADAMS, J. L., MCGIBBON, W. H., and CASIDA, L. E. Eggs and chicks from estrogen-fed pullets. (Abs.) Poultry Sci. 29:746. Sept.1950. 47.8 Am33P
- 14005 ALARCON GONZÁLES, J. Alimentación de las aves de corral. Ed. 2., rev., and enl. México, D. F., Trucco, 1949. 315 p. 47 AL14
- 14006 ARSCOTT, G. H., and COMBS, G. F. Effects on growth of various crude supplements added to corn-soybean meal chick rations adequate in vitamin B<sub>12</sub>. (Abs.) Poultry Sci. 29:746. Sept.1950. 47.8 Am33P
- 14007 ATKINSON, R. L., and COUCH, J. R. Vitamin B<sub>12</sub> and other factors in the nutrition of the Broadbreasted Bronze turkey poults. (Abs.) Poultry Sci. 29:746. Sept.1950. 47.8 Am33P
- 14008 BAKER, R. C., MARGOLF, P. H., and CALLENBACH, E. W. Length of starvation period as it affects bleeding of poultry. (Abs.) Poultry Sci. 29:747. Sept.1950. 47.8 Am33P
- 14009 BEARSE, G. E., BERG, L. R., and MILLER, V. L. The effect of energy level of starting and growing rations on the performance of laying hens. (Abs.) Poultry Sci. 29:748. Sept.1950. 47.8 Am33P
- 14010 BENOIT, C. E. Engraissez-les avant de les vendre. (Sum.) Avicult. Québécois 5(11):5-6. Nov.1950. 47.8 Av55
- Also in Terre de Chez Nous 22(38):8,23. Nov.15,1950. 7 T27
- 14011 BERG, L. R., BEARSE, G. E., and MILLER, V. L. The effect of periodically increasing the level of calcium and vitamin D in the laying ration on the performance of laying hens. (Abs.) Poultry Sci. 29:749. Sept.1950. 47.8 Am33P
- 14012 BETHKE, R. M. APF and the antibiotics in poultry and swine nutrition. East. Feed Merchant 1(11):15. Nov.1950. 389.78 Ea7
- 14013 BIRD, F. H. The tryptophan requirement of turkey poults. Poultry Sci. 29:737-740. Sept.1950. 47.8 Am33P
- 14014 BIRD, H. R. Saving dollars in building egg mashers. (Sum.) East. Feed Merchant 1(12):22. Dec.1950. 389.78 Ea7
- 14015 BLAYLOCK, L. G., and RICHARDSON, L. R. Peanut meal, mixtures of soybean and cottonseed and mixtures of soybean and peanut meals as sources of protein for baby chicks. Poultry Sci. 29:656-660. Sept.1950. 47.8 Am33P
- 14016 BRIGGS, G. M., HILL, E. G., and GILES, M. J. The practical use of an all-plant ration for starting and broiler chickens. (Abs.) Poultry Sci. 29:750. Sept.1950. 47.8 Am33P
- 14017 BRIGGS, G. M., HILL, E. G., and GILES, M. J. Vitamin B<sub>12</sub> in all-plant rations for chicks and sparing activity of methionine and choline. Poultry Sci. 29:723-736. Ref. Sept.1950. 47.8 Am33P
- 14018 BURNS, C. H., and others. Sodium requirements and interrelationships with potassium for chickens. (Abs.) Poultry Sci. 29:752. Sept.1950. 47.8 Am33P
- W. W. Cravens, P. H. Phillips and J. G. Halpin, joint authors.
- 14019 CARLSON, C. W., and others. The use of commercial APF supplements in the turkey breeder diet. (Abs.) Poultry Sci. 29:752. Sept.1950. 47.8 Am33P
- W. Kohlmeier, D. G. Jones and A. L. Moxon, joint authors.
- 14020 CARVER, J. S., and MCGINNIS, J. Effect on vitamin B<sub>12</sub> and APF supplements on hatchability of chicken eggs. (Abs.) Poultry Sci. 29:752. Sept.1950. 47.8 Am33P
- 14021 CHU, T. K., and KUMMEROW, F. A. The deposition of linolenic acid in chickens fed linseed oil. Poultry Sci. 29:846-851. Ref. Nov.1950. 47.8 Am33P
- 14022 CLAYBAUGH, J. H. Fall feeding fosters—egg production line. Nebr. Elect. Farmer 4(11):9-10. Nov.1950. 335.8 N27
- 14023 COUCH, J. R., and GERMAN, H. L. Vitamin B<sub>12</sub>, APF concentrates and dried whey in the nutrition of the growing chick. (Abs.) Poultry Sci. 29:754. Sept.1950. 47.8 Am33P
- 14024 DIECKERT, J. W., BROWN, S. O., and COUCH, J. R. A study of the effect of a biotin deficient diet on the embryonic development of chicks. (Abs.) Poultry Sci. 29:756. Sept.1950. 47.8 Am33P
- 14025 DRAPER, C. I., and others. Concentration of DDT in tissues of chickens fed varying levels of DDT in the diet. (Abs.) Poultry Sci. 29:756. Sept.1950. 47.8 Am33P
- C. Biddulph, D. A. Greenwood, J. R. Harris, W. Bluns and M. L. Miner, joint authors.
- 14026 DYMAN, V. K. Oil cake as a source of protein in feeding hens. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 11:139-144. 1949. 20 M857
- 14027 EBBELL. Grit und holzkohle. Geflügelhof 13:610. Sept.15,1950. 47.8 G276
- 14028 FANGAUF, K. W. Milokorn als hühnerfutter. Deut. Wirtgeflügelzucht. 3:2-3. Oct.7,1950. 47.8 D483
- 14029 FLORENSKAYA, N. Granulated feed compound for poultry. (In Russian.) Mfasnafa Indus. SSSR. 21(3):78-80. May/June 1950. 50.8 M58
- 14030 FRONDA, F. M. An all-mash ration for caged layers. Agr. & Indus. Life 12(9):4,43. Sept.1950. 25 Ag8
- 14031 GERMAN, H. L., and COUCH, J. R. The effect of feeding varying levels of dehydrated alfalfa leaf meal on the growth of chicks and poults. Poultry Sci. 29:841-845. Nov.1950. 47.8 Am33P
- 14032 GLISTA, W. A., and MATTERSON, L. D. The determination of indigestible carbohydrates in poultry feeds. (Abs.) Poultry Sci. 29:759. Sept.1950. 47.8 Am33P
- 14033 GONZALEZ SILVA, E. I. Nutrición de las aves. Bolsa de Com., Rosario. Rev. 38(926):19-21. Aug.15,1950. 287 R71
- 14034 GRATON, A. Causes et prévention de l'amalgrissement de la poulette. B. des Agr. 46(10):15. Oct.1950. 7 B872
- Feeding.
- 14035 GROSCHKE, A. C. Relation of growth stimulating properties of antibiotics to unidentified growth factors required by the chick. (Abs.) Poultry Sci. 29:760. Sept.1950. 47.8 Am33P
- 14036 HAMMONDS, L. L., and SMITH, R. M. The influence of thiouracil and choline on market grade of broilers. (Abs.) Poultry Sci. 29:762. Sept.1950. 47.8 Am33P
- 14037 HEUSER, G. F. Are supplements necessary? Poultry Impr. Bd. N. Y. Ybk. 1950/51:18,82. 47.9 N484
- 14038 HEUSER, G. F. Salt additions to chick rations. East. Feed Merchant 1(12):26. Dec.1950. 389.78 Ea7
- 14039 HEYWANG, B. W. High levels of alfalfa meal in diets for chickens. Poultry Sci. 29:804-811. Nov.1950. 47.8 Am33P
- 14040 HILL, D. C., and BRANION, H. D. A comparison of commercial animal protein factor supplements in chick starter diets. Poultry Sci. 29:743-744. Sept.1950. 47.8 Am33P
- 14041 HILL, D. C., and others. The use of a commercial animal protein factor supplement in a hatching ration. Poultry Sci. 29:744-745. Sept.1950. 47.8 Am33P
- J. D. McConachie, K. M. Gartley and H. D. Branion, joint authors.
- 14042 HILL, E. G., and BRIGGS, G. M. Studies on an unidentified growth promoting factor in cereals and other natural products for chicks. (Abs.) Poultry Sci. 29:763. Sept.1950. 47.8 Am33P



- 14043 HILL, F. W., and DANSKY, L. M. Studies of the protein requirements of chicks and its relation to dietary energy level. (Abs.) Poultry Sci. 29:763. Sept. 1950. 47.8 Am33P
- 14044 HORNER, F. Nutrition in relation to breeding stock. Poultry Field 3(15):4-5. Dec.7,1950. 47.8 P8655
- 14045 INGRAM, G. R., and others. The effect of feeding amino acid mixtures to laying hens. (Abs.) Poultry Sci. 29:764. Sept.1950. 47.8 Am33P
- W. W. Cravens, C. A. Elvehjem and J. G. Halpin, joint authors.
- 14046 INGRAM, G. R., and others. Relation of tryptophan and lysine to egg production, hatchability and composition of the protein of hens' eggs. Poultry Sci. 29:793-803. Ref. Nov.1950. 47.8 Am33P
- W. W. Cravens, C. A. Elvehjem, and J. G. Halpin, joint authors.
- 14047 JOHNSON, E. L. Methionine, choline, fish solubles and milk in rations for growing turkeys in confinement. Poultry Sci. 29:661-665. Ref. Sept.1950. 47.8 Am33P
- 14048 JOHNSON, E. L. Nutritional requirements of poultry. Feedstuffs 22(44):24. Nov.4,1950. 286.81 F322
- 14049 JOHNSON, E. L. Providing vitamin B<sub>12</sub> and animal protein factor activity for chick diets. (Abs.) Poultry Sci. 29:765. Sept.1950. 47.8 Am33P
- 14050 KRAMKE, E. H., and FRITZ, J. C. Distribution of the whey factor. (Abs.) Poultry Sci. 29:767. Sept.1950. 47.8 Am33P
- 14051 KRAMKE, E. H., LLOYD, M. D., and FRITZ, J. C. Some factors which affect utilization of vitamin A. (Abs.) Poultry Sci. 29:767-768. Sept.1950. 47.8 Am33P
- 14052 LILLIE, R. J., OLSEN, M. W., and BIRD, H. R. Variation in reproductive response of hens to deficiency of several different nutrients. (Abs.) Poultry Sci. 29:768-769. Sept.1950. 47.8 Am33P
- 14053 MCGINNIS, J. Antibiotics as growth stimulants for chicks and turkey poults. (Sum.) Feedstuffs 22(47):32,34-36. Nov.25,1950. 286.81 F322
- 14054 MCGINNIS, J., and others. The effect of aureomycin and streptomycin on growth of chicks and turkey poults. (Abs.) Poultry Sci. 29:771. Sept.1950. 47.8 Am33P
- L. R. Berg, J. R. Stern, R. A. Wilcox, and G. E. Bearse, joint authors.
- 14055 MARTYNEKO, I. A. Experiment in poultry fattening at Kalachev Poultry Combine. (In Russian.) Ml'snafa Indus. SSSR. 21(3):74-75. May/June 1950. 50.8 M58
- 14056 MATTERSON, L. D., CARSON, J. R., and GRISWOLD, L. Studies on the conversion of  $\beta$  carotene to vitamin A in vitro and in vivo. (Abs.) Poultry Sci. 29:769-770. Sept.1950. 47.8 Am33P
- Tests with chicks.
- 14057 MAW, W. A., NIKOLAICZUK, N., and JOHNSON, W. W. High efficiency broiler rations and cooking losses. (Abs.) Poultry Sci. 29:770. Sept.1950. 47.8 Am33P
- 14058 MEHRHOF, N. R., DAVIS, G. K., and DRIGERS, J. C. Ramie meal in chick rations. Fla. Agr. Expt. Sta. C. S-20,5 p. Oct.1950. 100 F66C1
- 14059 MILLIGAN, J. L., and BIRD, H. R. Cottonseed meal processing variants and chick growth. (Abs.) Poultry Sci. 29:771. Sept.1950. 47.8 Am33P
- 14060 MILLIGAN, J. L., and others. Dried penicillin mycelium as a riboflavin source in chick rations. Poultry Sci. 29:870-873. Nov.1950. 47.8 Am33P
- J. O. Anderson, G. F. Combs, and G. M. Briggs, joint authors.
- 14061 MILLIGAN, J. L., and COMBS, G. F. Vitamin B<sub>12</sub> requirements for hatchability, viability and growth. (Abs.) Poultry Sci. 29:772. Sept.1950. 47.8 Am33P
- 14062 MUSSEHL, F. E., ACKERSON, C. W., and BORCHERS, R. L. How much alfalfa meal in chick rations? (Abs.) Poultry Sci. 29:773. Sept.1950. 47.8 Am33P
- 14063 MUSSEHL, F. E., ACKERSON, C. W., and BORCHERS, R. L. Mineral requirements for rapid growth in New Hampshire chicks. (Abs.) Poultry Sci. 29:773. Sept.1950. 47.8 Am33P
- 14064 NEUGEBAUER, H. Probleme der hühnerhaltung. Österr. Kleintierzüchter 1950:836-837. Oct.1950. 49 Os7
- Chiefly on feeding.
- 14065 NIKOLAICZUK, N. The adverse effect of texture upon the feeding value of linseed oil meal for chicks. (Abs.) Poultry Sci. 29:773-774. Sept.1950. 47.8 Am33P
- 14066 OLESON, J. J., HUTCHINGS, B. L., and WHITEHILL, A. R. The effect of feeding aureomycin on the APF requirements of the chick. (Abs.) Poultry Sci. 29:774. Sept.1950. 47.8 Am33P
- 14067 PANDA, J. N., and COMBS, G. F. Studies on the energy requirement of the chick for rapid growth. (Abs.) Poultry Sci. 29:774-775. Sept.1950. 47.8 Am33P
- 14068 PATRICK, H. Growth-promoting effect of methionine and vitamin B<sub>12</sub> on chicks. Poultry Sci. 29:923-924. Nov.1950. 47.8 Am33P
- 14069 PETERSON, C. F., LAMPMAN, C. E., and WIESE, A. C. Role of vitamin B<sub>12</sub> and other APF factors for reproduction and chick growth. (Abs.) Poultry Sci. 29:775. Sept.1950. 47.8 Am33P
- 14070 PETERSON, D. W. Effect of sterols on growth of chicks fed a diet high in alfalfa meal or a diet containing a saponin. (Abs.) Poultry Sci. 29:775. Sept.1950. 47.8 Am33P
- 14071 PREVO, A. A. Otkorm pitfys v kolkhozakh [Fattening poultry on collective farms]. Moskva, Gos. Izd-vo Selkhoz Lit-r, 1950. 71 p. 47 P9220
- 14072 PUHLMANN, M. Molke in der geflügelzüchtung. Deut. Wirtgeflügelzücht. 2:292-293. Sept.23,1950. 47.8 P483
- 14073 RAPLEY, R. Winter layers need protein. Poultry [London] 107:378. Nov.7,1950. 47.8 P869
- 14074 RICHARDSON, L. R., and BLAYLOCK, L. G. Supplements to soybean and cottonseed meal diets for poults and growing turkeys. Poultry Sci. 29:851-855. Ref. Sept.1950. 47.8 Am33P
- 14075 ROBBLEE, A. R., and CLANDININ, D. R. The use of B vitamins in practical turkey starters. (Abs.) Poultry Sci. 29:777. Sept.1950. 47.8 Am33P
- 14076 ROBERTSON, E. I. Feed research is bridging the gap; it relieves poultrymen of concern over formulation. Feed Bag 26(11):15,104-105. Nov.1950. 389.78 F32
- 14077 ROBERTSON, E. I. The response of poults to animal protein, feed particle size and antibiotics. (Abs.) Poultry Sci. 29:777. Sept.1950. 47.8 Am33P
- 14078 RUNNELS, T. D., TOMHAVE, A. E., and KISH, A. F. The effect of feeding chicks a continuous low level concentration of sulfaminoxaline on ultimate egg production, mortality and hatchability. (Abs.) Poultry Sci. 29:778. Sept.1950. 47.8 Am33P
- 14079 RUNNELS, T. D., and others. Growth response of chicks fed diets containing solvent extracted broccoli meal and soybean oil meal as protein supplements. (Abs.) Poultry Sci. 29:778. Sept.1950. 47.8 Am33P
- A. E. Tomhave, E. G. Kelley, and M. E. Wall, joint authors.
- 14080 SAVAGE, J. E., and others. The requirement of the chick for an unrecognized growth factor. (Abs.) Poultry Sci. 29:779. Sept.1950. 47.8 Am33P
- B. L. O'Dell, H. L. Kempster, and A. G. Hogan, joint authors.
- 14081 SCOTT, H. M., and GLISTA, W. A. The effect of aureomycin and arsonic acid on chick growth. Poultry Sci. 29:921-923. Nov.1950. 47.8 Am33P
- 14082 SCOTT, M. L. Poult, chick rations differ. Poultry Impr. Bd. N. Y. Ybk. 1950/51:72,74-75. 47.9 N484
- Includes table on nutrient requirements of turkeys.
- 14083 SIMONS, L. R. Poultry summaries of the Cornell Nutrition Conference. Amer. Egg & Poultry Rev. 11(11):20,22. Nov.1950. 47.8 Am38
- 14084 SINGSEN, E. P., and others. The choline requirements of turkey breeders. Poultry Sci. 29:780. Sept.1950. 47.8 Am33P
- L. D. Matterson, A. Kozeff, and L. Decker, joint authors.
- 14085 SINGSEN, E. P., MATTERSON, L. D., and KOZEFF, A. The effect of the source of carbohydrate on the feed efficiency of laying hens. (Abs.) Poultry Sci. 29:779-780. Sept.1950. 47.8 Am33P
- 14086 SINGSEN, E. P., MATTERSON, L. D., and KOZEFF, A. Phosphorus in poultry nutrition. IV. Radioactive phosphorus as a tracer in studying the metabolism of phytin by the turkey poult. Poultry Sci. 29:635-639. Ref. Sept.1950. 47.8 Am33P



- 14087 SKINNER, J. L., and QUISENBERRY, J. H. Some effects of high efficiency and B<sub>12</sub> in chicken breeder rations. (Abs.) Poultry Sci. 29:780. Sept.1950. 47.8 Am33P
- 14088 SLINGER, S. J., PEPPER, W. F., and MOTZOK, I. Factors affecting the salt requirements of chickens. (Abs.) Poultry Sci. 29:780-781. Sept.1950. 47.8 Am33P
- 14089 THAYER, R. H., HELLER, V. G., and THOMPSON, R. B. Carotene utilization by breeder hens. Poultry Sci. 29:644-650. Ref. Sept.1950. 47.8 Am33P
- 14090 THAYER, R. H., LEONG, K. C., and MCGINNIS, J. Comparative nutritive value of specific vegetable and animal protein concentrates for chicks. (Abs.) Poultry Sci. 29:782. Sept.1950. 47.8 Am33P
- 14091 TIKHOMIROV, A. Extending the industrial fattening of poultry. (In Russian.) Miasnafa Indus. SSSR 21(3):67-69. May/June 1950. 50.8 M58
- 14092 TOMEY, A. Not all her own work. Farmers Wk. [London] 33(17):65. Oct.27,1950. 10 F2226  
Poultry feeding for egg production.
- 14093 TORRES DE LA PUERTA, C. Que no les falte agua a sus gallinas. Chacra 20(239):52-53. Oct.1950. 9 C34
- 14094 VERVENNE, B. VAN A. Effect of feeding meal to chickens on the quality and production of pullets in the fall. (In Dutch.) Pels en Pluim 4(24):8. Dec.2,1949. 47.8 P36
- 14095 VOLOKITIN, S. N. Feeding legume green meal to hens. (In Russian.) SoSialist. Zhivotnovod. 12 (7):82-83. July 1950. 49 So71
- 14096 WEST, J. W., and others. The relationship of choline and cystine to the methionine requirement of young chickens. (Abs.) Poultry Sci. 29:783-784. Sept. 1950. 47.8 Am33P
- C. W. Carrick, S. M. Hauge, and E. T. Mertz, joint authors.
- 14097 WICHMANN. Die besondere bedeutung des D-vitamins in der hühnerhaltung. Hannoversche Land- u. Forstwrt. Ztg. 103:818-819. Sept.16,1950. 18 H194
- 14098 WICHMANN. Die besondere bedeutung des lebertrans in der hühnerhaltung. Deut. Wirtgeflügelzucht. 2:284-285. Sept.9,1950. 47.8 D483
- 14099 WITZ, W. M., CARPENTER, M. M., and HAYWARD, J. W. Nutritional studies with rapeseed meal. (Abs.) Poultry Sci. 29:786. Sept.1950. 47.8 Am33P
- 14100 WORDEN, A. N. Some recent developments in poultry nutrition. Accredited Poultry Breeders' Fed. Eng. & Wales. News Serv. 21:20-22. Autumn 1950. 47.8 Ac2
- 14101 YACOWITZ, H., NORRIS, L. C., and HEUSER, G. F. Evidence of interrelationships between vitamin B<sub>12</sub> and riboflavin, pyridoxine and pantothenic acid. (Abs.) Poultry Sci. 29:787. Sept.1950. 47.8 Am33P
- ### Veterinary Medicine
- 14102 ALBERTS, J. O., and MILLEN, T. W. Studies on Newcastle disease. VIII. Resistance of chicks from pullets vaccinated against Newcastle disease. Poultry Sci. 29:707-711. Sept.1950. 47.8 Am33P
- 14103 ANTONOVICH, S. N. Method of continuous development of poultry embryo. (In Russian.) Sovet. Zootekh. 5(8):91. Aug.1950. 49 So822
- 14104 ARAGON LEIVA, P. Diarrea blanca de las aves de corral. Tierra [México] 5:677-683. (Concl.) Dec.1950. 8 T445
- 14105 BEAUDETTE, F. R. Newcastle can be controlled. (Condensed.) U. S. Egg & Poultry Mag. 56(11): 14-15,20-22. Nov.1950. 286.85 Eg3
- 14106 BEAUDETTE, F. R. Notes on Newcastle from New Jersey. Nulaid News 28(5):10. Oct.1950. 47.8 N917  
Reported by A. W. Lowrie.
- 14107 BLÄTTNER, R. J., and WILLIAMSON, A. P. Abnormalities in the beaks of developing chick embryos; postmortem changes which may be confused with developmental anomalies. A.M.A. Arch. Path. 50:676-686. Dec. 1950. 448.8 Ar26
- 14108 BOUTHILET, R. J., and others. The metabolism of raw versus heated soybeans in birds with colostomies. Poultry Sci. 29:837-840. Ref. Nov.1950. 47.8 Am33P
- W. L. Hunter, C. A. Luhman, D. Ambrose, and S. Lepkovsky, joint authors.
- 14109 BRACKETT, S., and BLIZNICK, A. The occurrence and economic importance of coccidiosis in chickens. New York, Anim. Feed. Dept., Lederle Lab. Div., Amer. Cyanamid Co.,1950. 78 p. Ref. 436 B72
- 14110 BRESSLER, G. O., and GORDEUK, S., JR. Effect of cecal coccidiosis on body weight, egg production and hatchability in chickens. (Abs.) Poultry Sci. 29:750. Sept.1950. 47.8 Am33P
- 14111 BRESSLER, G. O., CALLENBACH, E. W., and GORDEUK, S., JR. The role of salt and carbolineum in producing ascites in turkey poult. (Abs.) Poultry Sci. 29:749-750. Sept.1950. 47.8 Am33P
- 14112 BRUNSON, C. C., and GODFREY, G. F. A thirteen-year summary of mortality in the Oklahoma egg laying contest. (Abs.) Poultry Sci. 29:751. Sept.1950. 47.8 Am33P
- 14113 BUCKNER, G. D., and others. Influence of vitamin D on the growth of New Hampshire cockerels, their combs, wattles, gonads, and uropygeal glands. (Abs.) Poultry Sci. 29:751. Sept.1950. 47.8 Am33P  
W. M. Insko, Jr., A. H. Henry and E. F. Wachs, joint authors.
- 14114 BUSHNELL, L. D., and ERWIN, L. E. Studies on Newcastle disease. VII-VIII. Kans. Acad. Sci. Trans. 53:378-385. Sept.1950. 500 K13T
- 14115 CAMPOS, A. C., and FRONDA, F. M. Hormonized roosters for Christmas. Agr. & Indus. Life 12(10): 30,36. Oct.1950. 25 Ag8  
Hormone caponization.
- 14116 CANADIAN COMMITTEE ON NEWCASTLE DISEASE. Extensive study of Newcastle undertaken. Canad. Poultry Rev. 74(11):36-41. Nov.1950. 47.8 C16
- 14117 CHAMPION, L. R. The inheritance of resistance to cecal coccidiosis in the domestic fowl. (Abs.) Poultry Sci. 29:753. Sept.1950. 47.8 Am33P
- 14118 CHRISTIE, D. G. Vitamin A deficiency in poultry (also called avitaminosis A or green feed deficiency) reduces production and disease resistance. N. S. Wales. Dept. Agr. Div. Anim. Indus. Poultry Dis. L. 5,5 p. 1949. 41.9 N473
- 14119 COLE, R. K., and HUTT, F. B. Evidence that eggs do not transmit leucosis. (Abs.) Poultry Sci. 29: 753-754. Sept.1950. 47.8 Am33P
- 14120 CRAIG, F. R. Outbreak occurs in Wake County: Newcastle disease. Wildlife N. C. 14(12):17-18. Dec.1950. 279.9 N812
- 14121 DELAY, P. D., JONES, E. E., and JACKSON, T. W. The application of variant and standard antigens in the control of pullorum variant infections in chickens. (Abs.) Poultry Sci. 29:755-756. Sept.1950. 47.8 Am33P
- 14122 DEVOLT, H. M. The different effect of artificially and naturally induced blackhead (infectious enterohepatitis) of turkeys on the prophylactic action of one quinoline derivative. Poultry Sci. 29:924-926. Nov. 1950. 47.8 Am33P
- 14123 DIESEL, A. M. The voluntary control of bacillary white diarrhoea and fowl typhoid. Farming So. Africa 25:258. Aug.1950. 24 So842
- 14124 EHRLICH, C. Die wichtigsten wurmkrankheiten beim huhn u. ihre bekämpfung. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1316. Sept.21,1950. 18 L2346
- 14125 EL-IBIARY, H. M., and SHAFFNER, C. S. The effect of induced hypothyroidism on the genetics of growth in the chicken. (Abs.) Poultry Sci. 29:757. Sept.1950. 47.8 Am33P
- 14126 ENGELMANN, C. Über den geschmackssinn des hühnes. IX. Die grenzen der schmeckempfindlichkeit grosser hühnerrassen. Z. f. Tierpsychol. 7:84-121. Ref. Mar.1950. 410 Z35
- 14127 FANGAUF, K. W. Federfressen und kannibalismus. Deut. Wirtgeflügelzucht. 2:266. (To be cont.) Aug.12,1950. 47.8 D483
- 14128 FONTANELLI, E. Observaciones sobre el virus de la C. D. laringotraqueitis (enfermedad de Newcastle) con el microscopio electrónico. Rev. de Sanidad Vet. 5:611-612. Aug.15,1950. 41.8 R3222
- 14129 FORTNER, J. Ueber den stand der hühnerpest in Deutschland, ihre erforschung und bekämpfung. Geflügelhof 13:703-706. Ref. Oct.27,1950. 47.8 G276
- 14130 FRAPS, R. M., and OLSEN, M. W. Survival of day-old chicks under conditions of simulated high-altitude transport. Poultry Sci. 29:829-832. Nov.1950. 47.8 Am33P



- 14131 FRITZSCHE, K. Beitrag zur kenntnis der lappchenkrankheit (chronische geflügelcholera) beim huhn. Berlin u. Münch. Tierärztl. Wchnschr. 1950:153-155. Aug.1950. 41.8 B45
- 14132 GODFREY, E. F., and JAAP, R. G. Will combined estrogen and androgen treatment stunt bone growth in turkeys? (Abs.) Poultry Sci. 29:759. Sept.1950. 47.8 Am33P
- 14133 GODFREY, G. F., and WILLIAMS, C. Relative yolk-sac weight in the day-old chick as related to early post-natal growth. (Abs.) Poultry Sci. 29:759-760. Sept.1950. 47.8 Am33P
- 14134 GORDEUK, S., JR., BRESSLER, G. O., and GLANTZ, P. J. Effect of age of bird and degree of exposure in the development of immunity in cecal coccidiosis of chicks. (Abs.) Poultry Sci. 29:760. Sept.1950. 47.8 Am33P
- 14135 GORRIE, C. J. R. Management in control of coccidiosis in chickens. Austral. Vet. J. 26:223-225. Sept.1950. 41.8 Au72
- 14136 HANSON, R. P., and BRANDLY, C. A. Important properties in the characterization of Newcastle disease virus. (Abs.) Poultry Sci. 29:762. Sept.1950. 47.8 Am33P
- 14137 HART, L. Fowl tick fever is conquered. Poultry Farmer [Sydney] 18(15):6,8. Oct.7,1950. 280.28 Or32
- Caused by *Treponema anserinum* and transmitted by *Argas persicus* and *Dermanyssus gallinae*.
- 14138 HERRICK, C. A. The effect of coccidia on the metabolism and temperature regulation of chickens. (Abs.) Poultry Sci. 29:763. Sept.1950. 47.8 Am33P
- 14139 HESS, Die bekämpfung der geflügelpest in der Schweiz. Geflügelhof 13:707. Oct.27,1950. 47.8 G276
- 14140 HOOD, M. P., WHEELER, R. S., and MCGLAMERY, J. B. Oxidative changes in estrogen-stimulated fat and the influence of natural tocopherols on stability of fats in normal chickens. Poultry Sci. 29:824-828. Ref. Nov.1950. 47.8 Am33P
- 14141 HOYT, H. H., and POMEROY, B. S. Growth of the causative agent of sinusitis of the turkey in the chick embryo. (Abs.) Poultry Sci. 29:764. Sept.1950. 47.8 Am33P
- 14142 HUSTON, T. M., and NALBANDOV, A. V. The effect of injury of the oviduct on the ovary. (Abs.) Poultry Sci. 29:764. Sept.1950. 47.8 Am33P
- 14143 HUTT, F. B. Leucosis yields to selection. Poultry Impr. Bd. N. Y. Ybk. 1950/51:15,70. 47.9 N484
- 14144 JENSEN-SALSBERY LABORATORIES. PROFESSIONAL SERV. DIV. Newcastle disease; information on vaccination with killed-virus vaccine. Kansas City, Mo., 1949? 12 p. 41 J452
- 14145 JONES, D. G., and KOHLMEYER, W. The effect of dubbing White Leghorn females upon egg production. (Abs.) Poultry Sci. 29:765. Sept.1950. 47.8 Am33P
- 14146 JUNGHER, E. L. Pullet disease baffles science. Poultry Impr. Bd. N. Y. Ybk. 1950/51:22,77,80. 47.9 N484
- 14147 KASCHULA, V. R. Live virus vaccine will give complete protection against "Newcastle." S. A. P. A. Poultry B. 15(157):5. Oct.1950. 47.8 So89
- 14148 KENNARD, D. C., and CHAMBERLIN, V. D. Growth, dietary requirements and mortality of chickens as affected by management of the floor litter. (Abs.) Poultry Sci. 29:766. Sept.1950. 47.8 Am33P
- 14149 KIRKPATRICK, C. M., MOSES, H. E., and BALDINI, J. T. Streptomycin studies in ulcerative enteritis in Bobwhite quail. I. (Abs.) Poultry Sci. 29:766. Sept.1950. 47.8 Am33P
- 14150 KNOX, C. W. The effect of Newcastle disease on egg production, egg weight and mortality rate. Poultry Sci. 29:907-911. Nov.1950. 47.8 Am33P
- 14151 KOSIN, I. L. Biology of the fowl, a course for poultry husbandry majors. (Abs.) Poultry Sci. 29:767. Sept.1950. 47.8 Am33P
- 14152 KUDRIAVTSEVA, T. P. Pathomorphological differentiation of a typical and classic fowl pest. (In Russian.) Veterinariia 27(8):24-25. Aug.1950. 41.8 V6426
- 14153 KUSHASHVILI, A. L. Bacteriophage as a remedy against pullorum disease in chicks. (In Russian.) Veterinariia 27(8):26-27. Aug.1950. 41.8 V6426
- 14154 LATTEUR, J. P. Réflexions sur la pseudo-peste aviaire en 1950. Rev. de l'Agr. 3:907-916. Sept. 1950. 13 R322
- English summary.  
Belgium.
- 14155 LERNER, I. M., TAYLOR, L. W., and BEACH, J. R. Evidence for genetic variation in resistance to a respiratory infection in chickens. Poultry Sci. 29:862-869. Ref. Nov.1950. 47.8 Am33P
- 14156 LEVINE, P. P. Inoculation stops bronchitis. Poultry Impr. Bd. N. Y. Ybk. 1950/51:26,78. 47.9 N484
- 14157 MACEDO, J. N. Prevention of fowl pox. (In Portuguese.) Seleç. Agr. 5(53):20. Sept.1950. 9.2 Se4
- 14158 MAGRABI, M. H., and TURNER, C. W. Nutritional requirements in hyperthyroidism. (Abs.) J. Anim. Sci. 9:679. Nov.1950. 49 J82
- Chicks.
- 14159 MOORE, E. N. Enheptin may subdue blackhead. Poultry Impr. Bd. N. Y. Ybk. 1950/51:76-77. 47.9 N484
- 14160 MORENG, R. E., and SHAFFNER, C. S. Lethal internal temperature for the chicken from the fertile egg to the mature bird. (Abs.) Poultry Sci. 29:772. Sept. 1950. 47.8 Am33P
- 14161 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF ANIMAL INDUSTRY. Diseases of ducks in New South Wales. N. S. Wales. Dept. Agr. Div. Anim. Indus. Poultry Dis. L. 20,5 p. 1949. 41.9 N473
- 14162 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF ANIMAL INDUSTRY. Vent gleet and cannibalism. N. S. Wales Dept. Agr. Div. Anim. Indus. Poultry Dis. L. 10,3 p. 1949. 41.9 N473
- 14163 O'NEIL, J. B. Relationship of chick size to egg size and its effect upon growth and mortality. (Abs.) Poultry Sci. 29:774. Sept.1950. 47.8 Am33P
- 14164 PARRISH, D. B., and others. Transfer of vitamin A from the yolk to the chick embryo during incubation. Arch. Biochem. 29:1-6. Ref. Nov.1950. 381 Ar2
- R. N. Williams, J. S. Hughes, and L. F. Payne, joint authors.
- 14165 PERUCHON, J. Ce qu'il faut croire du chaponnage hormonal des coqs. Bétail & Basse-Cour 5:442. Nov.1950. 49 B462
- 14166 PERUCHON, J. Dépistage et guérison de la coccidiose aux Etats-Unis. Terre d'Occ 32:462-464. Oct.1950. 14 Ar5
- Poultry.
- 14167 PETERSON, E. H., and HYMAS, T. A. Diamond skin disease (chronic erysipelas) in a turkey. Amer. Vet. Med. Assoc. J. 117:465-466. Dec.1950. 41.8 Am3
- 14168 PHILLIPS, H. J., and WILLIAMS, I. L. Anti-oxidant activity of vitamin E and other compounds on chicken fat in vitro and in vivo. (Abs.) Poultry Sci. 29:776. Sept.1950. 47.8 Am33P
- 14169 PINO, J. A., and WEISS, H. S. A technique for the measurement of blood volume. (Abs.) Poultry Sci. 29:776. Sept.1950. 47.8 Am33P
- 14170 POMEROY, B. S. Erysipelas in turkeys. Minn. Gobblers 1950:7,17. Nov.1950. 47.38 M66
- 14171 QUINN, J. P. Effect of Newcastle disease on egg quality. (Abs.) Poultry Sci. 29:776. Sept.1950. 47.8 Am33P
- 14172 RANGLES, C. A., and ROMANOFF, A. L. A study of internal environment of the developing avian egg. (Abs.) Poultry Sci. 29:776. Sept.1950. 47.8 Am33P
- 14173 RIEDEL, B. B. Favus and its treatment with a quaternary ammonium compound. Poultry Sci. 29:741-742. Sept.1950. 47.8 Am33P
- Achorion gallinae infection.
- 14174 RIEDEL, B. B. The role of lysine on the resistance of chickens to *Ascaridia [galli]*. Poultry Sci. 29:903-906. Ref. Nov.1950. 47.8 Am33P
- 14175 RIEDEL, B. B. Speed of hatching and the resistance of chickens to *Ascaridia galli*. Poultry Sci. 29:703-706. Ref. Sept.1950. 47.8 Am33P
- 14176 RIEDEL, B. B. The use of grit and its effect upon ascarid infections. Poultry Sci. 29:895-896. Ref. Nov.1950. 47.8 Am33P
- 14177 RINDFLEISCH-SEYFARTH, M. Die kochsalzfrage in der geflügelpraxis. Tierärztl. Umschau 5:284-285. Aug.1950. 41.8 T445
- 14178 ROMANOFF, A. L. Role of chemical embryology in the field of avian reproduction and physiology. (Abs.) Poultry Sci. 29:777. Sept.1950. 47.8 Am33P



14179 RÖMER, R. R. Gifte. Geflügelhbi 13:641-642. Sept.29,1950. 47.8 G276  
Poisonous to poultry.

14180 SADUN, E. H. Studies on the pathogenicity in chickens of single infections of variable size with the nematode, *Ascaridia galli*. Poultry Sci. 29:712-722. Ref. Sept.1950. 47.8 Am33P

14181 SEEGER, K. C., LUCAS, W. C., and TOMHAVE, A. E. The effect of dried crude aureomycin on cecal coccidiosis in chickens. (Abs.) Poultry Sci. 29:779. Sept.1950. 47.8 Am33P

14182 SHARPLESS, G. R., and others. The effect of pteroylglutamic acid on three types of neoplastic disease in chickens. Poultry Sci. 29:818-823. Nov.1950. 47.8 Am33P

J. J. Oleson, P. Little, and M. C. Davies, joint authors.

14183 STURKIE, P. D., and WEISS, H. S. The effects of sympathomimetic and parasympathomimetic drugs upon egg formation. (Abs.) Poultry Sci. 29:781. Sept. 1950. 47.8 Am33P

14184 SUNDE, M. L., and others. The effect of folic acid on embryonic development of the domestic fowl. Poultry Sci. 29:696-702. Sept.1950. 47.8 Am33P

W. W. Cravens, C. A. Elvehjem and J. G. Halpin, joint authors.

Deficiency in hen's diet.

14185 SZYFRES, B. Los progresos en la lucha contra las enfermedades de las aves. I-III. Uruguay. Min. de Ganad. y Agr. B. Inform. 337:19;338:5,4;339:11-12. Sept.6-21,1950. 9.9 G15B  
Also in Asoc. Rur. del Uruguay. Rev. 77(10):10-16,18-20. Oct.1950. 9.9 As5

14186 TAUBITZ, K. Über das vorkommen der chronischen pulloruminfektion bei verschiedenen hühner-rassen. Monatsh. f. Vetmed. 5:257-258. Oct.1950. 41.8 M742

14187 TAYLOR, L. W., and others. Effect of a respiratory disease on reproduction. (Abs.) Poultry Sci. 29:782. Sept.1950. 47.8 Am33P

C. A. Gunns, C. R. Grau, and S. Lepkovsky, joint authors.

14188 TOPOLNIK, E., and HALLAUER, C. Pseudopest der hühner: interferenz zwischen virus und anti-körper. Schweiz. Z. f. Allg. Path. u. Bakt. 13:593-601. Ref. 1950. 44.8 Sch9

14189 TRENCHI, H. La importancia de la sanidad en la explotación de las aves. Asoc. Rur. del Uruguay. Rev. 77(9):19-24,26-29. Sept.1950. 9.9 As5

Disease control.

14190 VAN NESS, G. Stunted [chick] disease. Fla. Poultry & Dairy J. 16(11):14. Nov.1950. 47.8 F66

14191 VIANELLO, G. Vaccination of poultry; recent progress in control of pseudo fowl pest and cholera. (In Italian.) Allevatore 6(36):1. Sept.10,1950. 49 AL55

14192 VIEGAS AURELIO, J. L. Leucosis aviaria. Res 18:25408. Oct.20,1950. 286.85 R31

14193 WATERS, N. F., GROSCHKE, A. C., and SCOTT, H. M. Influence of diet on early mortality among inbred lines of chickens. Poultry Sci. 29:685-691. Sept.1950. 47.8 Am33P

14194 WEISS, H. S., and STURKIE, P. D. An indirect method for determining blood pressure in the fowl. (Abs.) Poultry Sci. 29:783. Sept.1950. 47.8 Am33P

14195 WHEELER, R. S. Incidence of lymphoid areas in thyroid, adrenal, pituitary, ovary and testis of broiler chickens. (Abs.) Poultry Sci. 29:784. Sept.1950. 47.8 Am33P

14196 WHEELER, R. S. Variation in testicular maturity of 12-week-old cockerels of five breeds and seven strains. (Abs.) Poultry Sci. 29:784. Sept.1950. 47.8 Am33P

14197 WILLIAMS, C., and GODFREY, G. F. The relative percent the chick is of its original egg weight as an indication of early post-embryonic growth. (Abs.) Poultry Sci. 29:785. Sept.1950. 47.8 Am33P

14198 WILSON, W. O., and EDWARDS, W. H. Temperature, oxygen and carbon dioxide inside chick boxes at various room temperatures. Poultry Sci. 29:852-857. Nov.1950. 47.8 Am33P

14199 WINGARD, S. B. After Newcastle strikes egg quality may be penalized. East. States Coop. 26(11): 5. Nov.1950. 280.28 Ea7

14200 WINTON, B., LUCAS, E. H., and COTTRAIL, G. E. The effects of feeding tomatoes on the incidence of lymphomatosis in chickens. Poultry Sci. 29:912-915. Nov.1950. 47.8 Am33P

14201 WINTON, B. Seek test to subdue leukosis. Poultry Impr. Bd. N. Y. Ybk. 1950/51:14,84-85. 47.9 N484

14202 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. DEPT. OF VETERINARY SCIENCE. Tapeworms of poultry. Wis. Agr. Col. Ext. Stencil C. 324,5 p.-folder. Aug.1950. 275.29 W75B

14203 WOLTERINK, L. F., LEE, C. C., and GROSCHKE, A. C. The effect of a deficiency of vitamin B<sub>12</sub> on iodine turnover in the chick thyroid. (Abs.) Poultry Sci. 29:786. Sept.1950. 47.8 Am33P

14204 WRIGHT, M. L. A single tube antigen for the detection of standard and variant infections of *Salmonella pullorum* in adult fowl. (Abs.) Poultry Sci. 29:787. Sept.1950. 47.8 Am33P

#### Miscellaneous

14205 AGENJO CECILIA, C. Enciclopedia de avicultura. Madrid,Espasa-Calpe,1950. 772 p. 47 Ag3

14206 AIRAN, J. W., and KALYANKER, G. D. Methionine and cystine contents of the common pigeon egg. Cur. Sci. 19:244. Aug.1950. 475 Sci23

14207 ALBORA, J. M. Factors influencing hatchability. Atlantic Co. Vocat. B. 25,i.e.30(2):3-4. Nov.1950. 6 At62

14208 ALBRECHT, R. Broiler factory. Prairie Farmer, Gen. Ed. 122(23):32-33. Dec. 2,1950. 6 P883

14209 ALIX, J. C. Chick sexing. Agr. & Indus. Life 12(10):12,37. Oct.1950. 25 Ag8

14210 ALLUE MORER, A. Divulgaciones avícolas. Ceres [Valladolid] 14(172):22-23. Oct.1,1950. 15 C33

14211 ALTHOUSE, S. L. Neppco [Northeastern Poultry Producers Council] stresses outlook, disease. Hatchery & Feed 24(11):42-44. Nov.1950. 47.8 H28

14212 ARCHES, M. D'. Pour stimuler la ponte des poules. Monit. Agr. 3(133):4. Oct.29,1950. 14 M744

14213 ASMUNDSON, V. S. Lighting for turkey egg production. (Abs.) Elect. on the Farm 23(9):11. Nov. 1950. 335.8 EL27

14214 BARLEY, H. D. Look after the test winners; how to use successful teams from the trials to proper advantage. Poultry World 87:241. Nov.9,1950. 47.8 P8682

14215 BAROTT, H. G., SCHOENLEBER, L., and CAMPBELL, L. E. The effect of ultraviolet irradiation at 2587 Angstrom units on the egg production of hens. (Abs.) Poultry Sci. 29:747. Sept.1950. 47.8 Am33P

14216 BATES, R. Delmarva produces eggs too; more than one-fourth of its hatching egg requirements produced on peninsula. Broiler Growing 1(4):17. Dec.1950. 47.8 B782

14217 BAUM, E. L., and WALKUP, H. G. Production and marketing practices of poultry-meat producers in Washington. (Abs.) Poultry Sci. 29:748. Sept.1950. 47.8 Am33P

14218 BEESON, F. W. Chinook turkeymen achieve uniformity of product. Canada Poultryman 37(10):15-17. Oct.1950. 47.8 C166  
Chinook Turkey Association.

14219 BENOIT, C. E. Un mot aux éleveurs de dindons. Avicult. Québécois 5(11):24. Nov.1950. 47.8 Av55  
Care and marketing.

14220 BLOUNT, W. P. Some aspects of the intensive system. Poultry Field 3(13):10-11,15. Nov.9,1950. 47.8 P8655

Deep litter and batteries.

Similar title in Scot. Farmer 58:1346. Oct.21,1950. 10 Sco8

14221 BONNET, L. Moving a duck farm. 5-6. Poultry [London] 107:313,358. Oct.17,31,1950. 47.8 P869

14222 BRAGG, D. D. 4-H highlights. Va. Poultryman 4(10):33,84-87. Oct.1950. 47.8 V812

14223 BRANT, A. W., MCNALLY, E. H., and NORRIS, K. Eggshell color and its relation to clutch position in Rhode Island Reds. (Abs.) Poultry Sci. 29:749. Sept. 1950. 47.8 Am33P

14224 BRESSLER, G. O. Labor saving on small Pennsylvania poultry farms. Pa. Agr. Expt. Sta. B. 532-P,6 p. Aug.1950. 100 P381

14225 BROWN, A. L. Official classifications are valued assets in expanding [poultry] industry. Poultry Impr. Bd. N. Y. Ybk. 1950/51:48-49. 47.9 N484



- 14226 BURLAI, E. I., and LAPIN, N. S. A poultry farm of high production on Krasnaya Zvezda Collective Farm [in Krasnodar Region]. (In Russian.) *Sotsialist. Zhivotnovod.* 12(7):19-25. July 1950. 49 So71
- 14227 BYWATERS, J. H. Third annual V.P.I. research review. *Va. Poultryman* 4(10):23,88-98. Oct. 1950. 47.8 V812
- 14228 CALIFORNIA. POULTRY IMPROVEMENT COMMISSION. Final report, first California official random sample egg laying test, April 1, 1949-Sept. 15, 1950. Modesto, 1950. 9 p. 47.9 C12Cp
- 14229 CALIFORNIA. POULTRY IMPROVEMENT COMMISSION. Final report (year 1949-1950) tenth California official egg laying test. Modesto, 1950. 16 p. 47.9 C12
- 14230 CANADA. DEPT. OF AGRICULTURE. PRODUCTION SERV. LIVESTOCK AND POULTRY DIV. Recommendations for the brooding of started chicks. Australas. *Poultry World* 22(2):29,31. Sept.1, 1950. 47.8 Au72
- 14231 CAPART, G. P. The navigational ability of the pigeon. *N. Z. Poultry World* 13:288. (To be cont.) Sept. 1950. 47.8 N11
- 14232 COLLIGNON. Die haltung von legehennen in einzelkäftigen. Kleintierzüchter Tierbörse 4(44):5-6. Sept.20, 1950. 49 K672
- 14233 CONNECTICUT. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. The thirty-first Connecticut home egg-laying contest; summary issue for the year October 1, 1949 to September 30, 1950, by R. E. Jones. Storrs, 1950. 8 p. 275.29 C78C
- 14234 DAUTRICH, C. F. The end of pigeon racing? *Amer. Racing Pigeon News* 66(11):36-37. Nov. 1950. 47.8 H75
- 14235 DAVEY, A. D. R. O. P. in Canada is different. *Poultry Impr. Bd. N. Y. Ybk.* 1950/51:6,81-82. 47.9 N484
- 14236 DEARSTYNE, R. S. Broilers go to town in North Carolina. *Carolina Co-op.* 28(11):14-15. Nov. 1950. 72.8 N81
- 14237 DECKER, M. Selection of breeders without trapsnets. *Atlantic Co. Vocat. B.* 25, i.e.30:3-4. Oct. 1950. 6 At62
- 14238 DENMARK. LANDSUDVALGET FOR FJERK-RAEAVLEN. Beretning om Landsudvalget for Fjerkræavlens konkurrence mellem hele hønsehold og konkurrence mellem kalkun-, gaase- og andehold 1948-49 [Report on the competition between chicken flocks only and competition between turkey, geese and duck flocks of the National Committee for Poultry Raising, 1948-49]. København, 1949. 45 p. 47.9 D41
- 14239 ELTRINGHAM, H. C. A new way with pheasants. *Field* 196:818-819. Nov.11, 1950. 10 F45
- 14240 GARTLEY, K. M., MCCONACHIE, J. D., and CAVERS, J. R. The influence of time of transfer on the hatchability of turkey eggs. (Abs.) *Poultry Sci.* 29:758-759. Sept. 1950. 47.8 Am33P
- 14241 GRIFFIN, H. P. Turkey type—California breeder likens value of beef, turkey conformation to the meat industry. *West. Livestock J.* 28(59):112,116,118. Oct.15, 1950. 6 F2278
- 14242 HALBROOK, E. R., WINTER, A. R., and SUTTON, T. S. The effect of management on the vitamin B<sub>12</sub> content of poultry house litter. I-II. *Poultry Sci.* 29:672-684. Ref. Sept. 1950. 47.8 Am33P
- 14243 HALBROOK, E. R., WINTER, A. R., and SUTTON, T. S. A study of the microflora of poultry house litter as related to management and the in vitro production of vitamin B<sub>12</sub> by isolated microorganisms. (Abs.) *Poultry Sci.* 29:761. Sept. 1950. 47.8 Am33P
- 14244 HALBROOK, E. R., WINTER, A. R., and SUTTON, T. S. The vitamin B<sub>12</sub> content of poultry house litter as affected by management and its relation to chick assay results. (Abs.) *Poultry Sci.* 29:761. Sept. 1950. 47.8 Am33P
- 14245 HALL, M. D. Litter in poultry pens. *Victoria. Dept. Agr. J.* 48:359-360. Aug. 1950. 23 V66J
- 14246 HARO, M. Consejos a los avicultores principiantes. *Tierra [México]* 5:669-671,696. Dec. 1950. 8 T445
- 14247 HART, L. Poultry keeping either as a sideline or hobby. *Grower [Adelaide]* 5(3):40-41. Sept. 1950. 80 G912
- 14248 HATCH, J. W. F.F.A. [poultry] program is area aid. *Poultry Impr. Bd. N. Y. Ybk.* 1950/51:16,68. 47.9 N484
- 14249 HATHAWAY, H. E., CHAMPAGNE, G. B., and UPP, C. W. Studies on meat yields of the domestic fowl. (Abs.) *Poultry Sci.* 29:762. Sept. 1950. 47.8 Am33P
- 14250 HAYES, B. J. Hens don't just grow! *Dairyland News* 20(10):14. Oct. 1950. 280.28 W752
- 14251 HAYES, D. L. County agents are specialists. *Poultry Impr. Bd. N. Y. Ybk.* 1950/51:30,90. 47.9 N484 Includes poultry work.
- 14252 HERRICK, L. W. How to make a profit with turkeys. *Farmers Fed. News* 31(3):4-5,8-9. Nov. 1950. 280.28 F225 Care and management.
- 14253 HEYWANG, B. W., BIRD, H. R., and ALT-SCHUL, A. M. The effect of pure gossypol on egg hatchability and weight. *Poultry Sci.* 29:916-920. Nov. 1950. 47.8 Am33P
- 14254 HICKS, J. S. First steps for novice fanciers. 4-5. *Poultry [London]* 107:383,402. Nov.7-14, 1950. 47.8 P869
- 14255 HILL, A. T. Progeny test results under Canada's R. O. P. policy. *Canada Poultryman* 37(11):22-23. Nov. 1950. 47.8 C166
- 14256 HINDS, R. Fall egg crop hinges on pullet care now. *Atherton Vet. Supply Co. Capital Forecast* 1:6. July 1950. 41.9 At4
- 14257 HOLMES, C. E. Management pointers for winter laying flocks. *Soeast. Poultryman* 3(10):6,18-23, 25. Oct. 1950. 47.8 So872 Also in *Va. Poultryman* 4(10):26-31. Oct. 1950. 47.8 V812
- 14258 HURD, L. M. The hen, then and now. *Cornell Plantations* 7:8-10. Autumn 1950. 409.6 C812
- 14259 IRWIN, M. R. The big problem is flockowner turnover! *Hatchery & Feed* 24(11):8,60-62. Nov. 1950. 47.8 H28 Hatchery business.
- 14260 JONES, T. Broilers prove dependable in central Illinois. Demonstration farm first used turkey brooding equipment. *Broiler Growing* 1(4):16,28. Dec. 1950. 47.8 B782
- 14261 KARAPETIAN, S. K. Role of [artificial] light in poultry development. (In Russian.) *Agrobiologiya* 1950(4):65-78. July/Aug. 1950. 20 Ag822
- 14262 KLEIN, G. T. Are your perches really necessary? *Poultry [London]* 107:380. Nov.7, 1950. 47.8 P869
- 14263 KNOWLES, J. H. Selecting breeders for body size and conformation at day old. *Canada Poultryman* 37(11):9-10. Nov. 1950. 47.8 C166
- 14264 KNOWLES, T. E. Experiences in Lancashire. *Poultry Field* 3(11):6-7. Oct.12, 1950. 47.8 P8655 Poultry industry.
- 14265 KNOWLES, T. E. In defence of laying trials. *Poultry Field* 3(15):11. Dec.7, 1950. 47.8 P8655
- 14266 KNOWLES, T. E. Specialisation in poultry husbandry. *Poultry Field* 3(14):4-7. Nov.23, 1950. 47.8 P8655
- 14267 LEE, A. R. Homing pigeons; their care and training. *U. S. Bur. Anim. Indus. A.H.D.* 138,3 p. 1950. 1.9 An52Ah
- 14268 LEE, C. E. Research gives the answers to some "poultry puzzlers". *Everybody's Poultry Mag.* 35(11):7,24-27. Dec. 1950. 47.8 F213P
- 14269 LIVERMON, C. W. From the egg to cockhouse. *Gamecock* 13(6):20. Oct. 1950. 47.8 G142 Care and feeding.
- 14270 LIVET, L. Fermes de ponte—elevages avicoles. *Paysan* 26(394):9. Oct. 1950. 14 P29
- 14271 LUTLEY, E. F. Points to watch with laying batteries. *Mod. Poultry Keeping* 63:432-433. Nov.1, 1950. 47.8 Eg3
- 14272 LYSTER, J. L. Laying batteries. *Australas. Poultry World* 22(2):57-58. Sept.1, 1950. 47.8 Au72
- 14273 MCARDLE, A. A. Rearing the poultry flock replacements. *So. Austral. Dept. Agr. J.* 54:30-31. Aug. 1950. 23 So84
- 14274 MACEDO, J. N. The good and best layers. (In Portuguese.) *Rev. Agron. [Pôrto Alegre]* 14:85. Apr./June 1950. 9.2 R325 Poultry.
- 14275 MCIVER, W. L. Buying perching pullets for household poultry flocks. *New Zeal. J. Agr.* 81:253,255. Sept. 1950. 23 N48J



- 14276 MCIVER, W. L. Household poultry keeping. New Zeal. Dept. Agr. B. 336, 8 p. 1950. 23 N48Bu
- 14277 MCMASTER, D. Poultry's hope for the future. Poultry Field 3(13):19. Nov.9, 1950. 47.8 P8655 Batteries.
- 14278 MILLER, J. P., and JACKSON, D. D. 4-H poultry judging. Wash. State Col. Ext. B. 434, 23 p. Nov. 1950. 275.29 W27P
- 14279 MOORE, A. C. Food-wasters should never be tolerated. Poultry [London] 107:396. Nov.14, 1950. 47.8 P869 Includes management of flocks.
- 14280 MOORE, A. C. Hold surplus stock for the Christmas market. Poultry [London] 107:330. Oct.24, 1950. 47.8 P869
- 14281 MOORE, A. C. I am trying out a henyard this winter. Poultry [London] 107:376. Nov.7, 1950. 47.8 P869
- 14282 MOORE, A. C. My 21-fold unit for progeny testing. Poultry [London] 107:436. Nov.28, 1950. 47.8 P869
- 14283 MOORE, A. C. We must strive to get all pullets into lay at the same time. Poultry [London] 107:356. Oct.31, 1950. 47.8 P869
- 14284 MUNSTER, H. Tauben in alter und neuer zeit. Osterr. Kleintierzüchter 1950:823. Sept.1950. 49 Os7
- 14285 NAETHER, C. A. The book of the racing pigeon, fact and theory from many sources including the author's own experience. New York, McKay, 1950. 224 p. Ref. 47.2 N12B
- 14286 NAETHER, C. A. Why keep pigeons? 1-2. All-Pets Mag. 21(10):68-70; (11):67-68. Oct.-Nov.1950. 48.8 AL5
- 14287 NALIBOT'SKII, S. B. Poultry raising [Zhlobin] state farm of White Russia. (In Russian.) Sotsialist. Zhivotnovod. 12(7):26-28. July 1950. 49 So71
- 14288 NEWMAN, V. E. Achieve better hatches. (Extr.) So. African Poultry, Pigeon & Bird Mag. 77(465):13. Oct.1950. 47.8 So83
- 14289 NICKERI, A. Legekontrolle—die wichtigste arbeit des geflügelzüchters. Osterr. Kleintierzüchter 1950:836. Oct.1950. 49 Os7
- 14290 NORRIS, L. C. Research beckons young people. Poultry Impr. Bd. N. Y. Ybk. 1950/51:5, 78. 47.9 N484 In poultry industry.
- 14291 OGLE, R. C. 4-H incentive program broad. Poultry Impr. Bd. N. Y. Ybk. 1950/51:20-21, 94. 47.9 N484 Poultry.
- 14292 PETTIGROVE, T. H. Planning an all pullet flock. Australas. Poultry World 22(2):39. Sept.1, 1950. 47.8 Au72
- 14293 POULTRY IMPROVEMENT BOARD OF NEW YORK. Yearbook, 1950-51. Ithaca, 1950. 96 p. 47.9 N484 Includes directories, for New York, of county agricultural agents, accredited veterinarians, official flock selecting agents, hatcheries, supply flock participants, and agricultural engineers.
- 14294 RAPLEY, R. Maintaining production during the winter. Poultry [London] 107:399. Nov.14, 1950. 47.8 P869
- 14295 RENNEBERG, A. Gänsekrollherden im Rheinland. Deut. Wirtgeflügelzucht. 2:293-294. Sept.23, 1950. 47.8 P483
- 14296 RHEAM, W. Guinea fowl. Gt. Brit. Min. Agr. Agriculture 57:340-342. Oct.1950. 10 G79J
- 14297 RUTLEDGE, M. H. Are family averages necessary? Canada Poultryman 37(11):7-8. Nov.1950. 47.8 C166 In egg production.
- 14298 SADLER, W. W., and BUSS, E. G. A basis for determining the effects of experimental conditions in incubation studies. (Abs.) Poultry Sci. 29:778-779. Sept. 1950. 47.8 Am33P
- 14299 SCHÄFER, H. Bewertung—preisverteilung, so oder so? Kleintierzüchter Tierbörse 4(44):3-4. Sept.20, 1950. 49 K672 Poultry.
- 14300 SCHMIDT, R. Können bruteler bis zu 3 wochen gesammelt werden? Wien. Tierärztl. Monatsschr. 37:751-757. Ref. Nov.1950. 41.8 T345
- 14301 SHANTZ, M. Conditioning waterfowl for exhibition. Amer. Poultryman 13(8):32, 52. Dec.1950. 47.8 So86 Ducks and geese.
- 14302 SHCHERBINA, A. K. On norms for raising ducks in fishponds. (In Russian.) Sovet. Zootekh. 5(8):73-79. Aug.1950. 49 So822
- 14303 SHOMO, H. Virginia's poultry improvement plan is twenty-five years old. Va. Poultryman 4(10):18-19, 36. Oct.1950. 47.8 V812
- 14304 SOLODKII, M. Collective farm poultry raising in Poltava Region. (In Russian.) Sotsialist. Zhivotnovod. 12(6):60-61. June 1950. 49 So71
- 14305 STEPHENSON, A. B. Supplemental oxygen for high altitude incubation. (Abs.) Poultry Sci. 29:781. Sept.1950. 47.8 Am33P
- 14306 STEVENSON, O. R., STOWARD, E. G., and EISEN, H. Poultry in Sussex. Poultry [London] 107:310-312. Oct.17, 1950. 47.8 P869
- 14307 THEISEN, E. J. Pigeons aiding science. Amer. Racing Pigeon News 66(12):4-5. Dec.1950. 47.8 H75 Habits and behavior.
- 14308 THOMS, E. Die mauser. Deut. Wirtgeflügelzucht. 3:1-2. Oct.7, 1950. 47.8 D483
- 14309 THORNER, C. The four "highs" of American poultry; high production, high hatchability, high mortality and high labour costs. Poultry [London] 107:439. Nov.28, 1950. 47.8 P869
- 14310 TURNER, K. B. Visual aids, an asset to poultry husbandry instructors. (Abs.) Poultry Sci. 29:782-783. Sept.1950. 47.8 Am33P
- 14311 U. S. BUR. OF ANIMAL INDUSTRY. Annual turkey R.O.P. and R.O.M. summary, 1949. U. S. Bur. Anim. Indus. A.H.D. 130, 6 p. May 1950. 1.9 An52Ah
- 14312 U. S. BUR. OF ANIMAL INDUSTRY. The National Turkey Improvement Plan. U. S. D. A. Misc. P. 555, rev., 38 p. June 1950. 1 Ag84M
- 14313 U. S. BUR. OF ANIMAL INDUSTRY. Outline of requirements of the National Turkey Improvement Plan. U. S. Bur. Anim. Indus. A.H.D. 135, chart. Oct. 1950. 1.9 An52Ah
- 14314 U. S. BUR. OF ANIMAL INDUSTRY. State participation in the National Poultry Improvement Plan and the National Turkey Improvement Plan. U. S. Bur. Anim. Indus. A.H.D. 25, rev., 5 p. Oct.1950. 1.9 An52Ah
- 14315 U. S. BUR. OF ANIMAL INDUSTRY. REGIONAL POULTRY RESEARCH LABORATORY. Eleventh annual report, 1949/50. East Lansing, 1950. 27 p. 1.972 A3R291
- 14316 WALLACE, R. B. Hybrids are the real profit-makers. N. J. Farm & Gard. 21(11):34-36, 38. Nov.1950. 6 G162 Hybrid chickens.
- 14317 WELCH, R. F. Management pays off in fryer profits. A record system that shows where things go wrong. Amer. Poultry J. 81(10):24, 36, 48. Oct.1950. 47.8 Am32
- 14318 WERNER, M. Wirtschaftstaubenzucht im hühnerstall? Deut. Wirtgeflügelzucht. 2:267-268. Aug.12, 1950. 47.8 D483
- 14319 WESTENSKOW, E. Poultry and turkey projects Agr. Educ. Mag. 23:107, 115. Nov.1950. 275.8 Ag8 Future Farmer projects.
- 14320 WHITE, V. Flock tests key Danish program. Hatchery & Feed 24(10):46-49. Oct.1950. 47.8 H28
- 14321 WILCOCK, B. Hen yards. Worcestershire Agr. Chron. 18:327, 329, 331. Aug./Oct.1950. 10 W892
- 14322 WILSON, E. Will general farm layers show a profit? Poultry [London] 107:336. Oct.24, 1950. 47.8 P869
- 14323 WINN, H. H. The project method of instruction as it applies in our missionary responsibilities. (Abs.) Poultry Sci. 29:785. Sept.1950. 47.8 Am33P Presbyterian Church mission schools.
- 14324 WINTERS, S. R. Georgians find turkeys a real ag income booster. Turkey World 25(11):20-21, 70-72. Nov.1950. 47.38 T84
- 14325 WIRLEITNER, F. Leistungen und ansprüche der geflügelarten; faustzahlen aus der geflügelhaltung. Pflug 3:192. Sept.1950. 19 P48 Egg and meat production.



14326 WORTHINGTON, J., and EISEN, H. Poultry in Surrey. Poultry [London] 107:328-330. Oct.24,1950. 47.8 P869

14327 ZHELTYI, A. V. Pamiatka zavedufushchego ptitshevodcheskoi fermoi po vyrashchivaniiu tsypilat [Handbook for the poultry farm manager on raising chicks]. U. an-Ude? Burmangiz, 1950. 44 p. 47 Z6

### RABBITS

#### Breeds and Breeding

14328 HARDER, H. J. Federation of American Rabbit Breeders. Amer. Rabbit J. 20:167-172. Nov.1950. 40.28 Am3

14329 HERB, T. Rexfell—edelkaninell. Kleintierzüchter Tierbörse 4(44):8. Sept.20,1950. 49 K672

14330 NIELEBOCK, E. W. Aus meinen zuchterfahrungen mit luxkaninchen. Kleintierzüchter Tierbörse 4(42):5. Sept.1,1950. 49 K672

14331 PAUSCHENWEIN, J. Das holländerkaninchen. Osterr. Kleintierzüchter 1950:825-826,842-843. Sept.-Oct.1950. 49 Os7

14332 RÖMPERT, W. Brief an einen jungen zuchtfreund. Jung-Züchter 2, p.2. In Kleintierzüchter Tierbörse 4(43). Sept.10,1950. 49 K672

14333 SHIRREFF, MRS. W. H. Wool production records. Angora Rabbit Mag. 6(2):2. Nov.1950. 40.28 An42

14334 TENDAM, L. Was versteht man unter einer rasse? Kleintierzüchter Tierbörse 4(43):5. Sept.10, 1950. 49 K672

Rabbits.

14335 WINFIELD, L. G. The beginner should try Flemish. Amer. Rabbit J. 20:163. Nov.1950. 40.28 Am3

#### Feeds and Feeding

14336 MÖLLER, A. V. Winter feeding of rabbits. (In Danish.) Aalborg Amtskreds. Medlemsbl. 25(10):2. Oct.1950. 40.29 Aa4

#### Veterinary Medicine

14337 DEAN, A. L. Diseases of domestic rabbits. All-Pets Mag. 21(11):73,75-76. Nov.1950. 48.8 AL5

14338 DORN, K. Die lokalbehandlung der kaninchen-spirochätose. Monatsh. f. Vetmed. 5:296. Nov.1950. 41.8 M742

14339 HAMMOND, J. Les possibilités de transplantation des oeufs. Bouches du Rhône Agr. 23(1035):15. Oct.2,1950. 14 B662

Rabbits and cattle.

14340 HOUT, A. VAN. Coccidiosis. (In Flemish.) Cult. en Handel 16:512-515. Aug.1950. 80 C892

Rabbits.

14341 HOUT, A. VAN. The dreaded rabbit disease coccidiosis. (In Flemish.) Cult. en Handel 16:629-633. Oct.1950. 80 C892

14342 MCNEIL, C. Cellular changes in rabbits during antibody formation. II. Multiple antigen injections. J. Immunol. 65:359-367. Ref. Oct.1950. 448.8 J8232

14343 REESE, J. D., MORRISON, M. E., and FOWLER, E. M. Complement fixation and Weil-Felix reaction in rabbits inoculated with Bartonella bacilliformis. J. Immunol. 65:355-358. Oct.1950. 448.8 J8232

14344 STEINER. Nachdenkliches über die kokzidiöse der kaninchen. Kleintierzüchter Tierbörse 4(42):6. Sept.1,1950. 49 K672

14345 ULBERG, L. C., and CASIDA, L. E. Effects of added progesterone upon early embryonic development and continued corpus luteum function. (Abs.) J. Anim. Sci. 9:683. Nov.1950. 49 J82

Rabbits.

#### Miscellaneous

14346 ARCHES, M. D'. Les lapins a la ferme. Monit. Agr. 3(133):4. Oct.29,1950. 14 M744

14347 COSSETTE, M. L'élevage du lapin vous intéresse-t-il? B. des Agr. 46(10):99-101. Oct.1950. 7 B872

14348 CUOZZO, R. F. Record of performance program. Amer. Rabbit J. 20:164-165. Nov.1950. 40.28 Am3

14349 MARTIN DE FRUTOS, J. Conejos y conejares. Madrid, Espasa-Calpe, 1950. 566 p. 40.2 F94

14350 STEINER. Warum fressen manche kaninchen ihren kot. Kleintierzüchter Tierbörse 4(44):9-10. Sept.20,1950. 49 K672

14351 TEMPLETON, G. S., and KELLOGG, C. E. Rabbit production. U. S. D. A. Farmers' B. 1730, rev., 58 p. Sept.1950. 1 Ag84F

14352 ZENTRALVERBAND DER KLEINTIERZÜCHTER E. V., FACHABTEILUNG KANINCHENZÜCHTER. Richtlinien für die kennzeichnung von kaninchen. Arnstadt, 1949? 4 p. 40.2 Z4R1

### SHEEP AND GOATS

#### Breeds and Breeding

14353 BELL, T. D., and others. Rambouillet and Columbia-Rambouillet lambs on the range and in the feed lot. Utah. Agr. Expt. Sta. B. 341,20 p. Ref. Sept.1950. 100 Ut1

M. A. Madsen, J. A. Bennett, L. L. Madsen, and D. C. Schmultz, joint authors.

14354 BUTARIN, N. The Kazakh Arkharomerinos (sheep breed). (In Russian.) Kolkhoz. Proizvodstvo 10(7):30. July 1950. 281.8 K83

14355 CALVO, C. A. Casimlr, cachemira, kashmir. Res 18:25304-25305. Sept.20,1950. 286.85 R31

The goat breed and the wool type.

14356 CARTER, H. W., and HENNING, W. L. Additional information on the inheritance of horns in sheep. (Abs.) J. Anim. Sci. 9:635. Nov.1950. 49 J82

14357 DUCOULOMBIER, M., and COLOMBET, D. La sélection lainière. Bétail & Basse-Cour 5:420-421. Nov. 1950. 49 B462

14358 GILCH. Ein guter bock ist die halbe herde. Kleintierzüchter Tierbörse 4(42):10. Sept.1,1950. 49 K672

14359 LINCOLN LONGWOOL SHEEP BREEDERS' ASSOCIATION. Brief history of the Lincoln longwool sheep from the year 1750. Lincoln, 1950. 18 p. 45 L63

14360 NELSON, O. M., and others. Importance of ram breed in fat lamb production. Oreg. Agr. Expt. Sta. Sta. B. 489,4 p. Oct.1950. 100 Or3

A. W. Oliver, G. B. McLeroy, and R. Bogart, joint authors.

14361 NIKOLITCH, D. Recherches sur le rendement en laine des moutons de la race Tsigaya. (In Serbian.) Yugoslavia. Min. Poljoprivrede. Radovi Poljoprivrednih Naucno-Istraživackih Ustanova 1:214-224. Ref. 1949. 21.5 Y93

French summary.

14362 POPE, L. S. Future problems for the purebred breeder. Sheepman 21:268,305. (To be cont.) Dec. 1950. 45.8 Sh32

14363 PRÉVOSTEAU, G. Le Southdown. Mouton 5:73-74. Aug./Sept.1950. 45.8 M86

14364 SERV. DES GÉNITEURS DE L'UNION OVINE DE FRANCE. Les grandes races ovines françaises; le Southdown. Mouton 5:79-80. Aug./Sept.1950. 45.8 M86

14365 SHULTZ, F. M. Are purebred rams selling for their full value? Sheepman 21:290. Dec.1950. 45.8 Sh32

14366 SINGLETON, R. E. Corriedale sheep are on the march. Mo. Farmer 42(11):6. Nov.1950. 6 M696

14367 TERRILL, C. E., KYLE, W. H., and HAZEL, L. N. Correlations between traits of range Rambouillet rams. (Abs.) J. Anim. Sci. 9:640. Nov.1950. 49 J82

14368 TUPPER, H. Bignor flock of Southdowns; only once have females been purchased for the breed's oldest flock. Field 196:821-822. Nov.11,1950. 10 F45

14369 VAN DER WATH, J. G. Profitable animals for the grassland area. (In Afrikaans.) Wolboer 37:14-15. Aug.1950. 45.8 W83

Merinos.

14370 ZELENSKIY, G. G. Improving the wool quality of goats. (In Russian.) Sotsialist. Zhivotnovod. 12(7):42-48. July 1950. 49 So71

Chiefly on developing new breed for the mountainous regions of Tadzhik SSR.

14371 ZETTL, J. Die bedeutung der Karakulzucht in Südwestafrika. Osterr. Kleintierzüchter 1950:829. Sept.1950. 49 Os7



14372 ZHANDERKIN, A. I. New breed of sheep—Kazakhskii Arkharomerinos and prospects for breeding it. (In Russian.) *Priroda* 39(8):44-49. Aug.1950. 410 P933

#### Feeds and Feeding

14373 BECKER, D. E., and SMITH, S. E. The level of cobalt tolerance in yearling sheep. (Abs.) *J. Anim. Sci.* 9:647. Nov.1950. 49 J82

14374 COLBY, R. W., RAU, F. A., and MILLER, J. C. The effect of various antibiotics on fattening lambs. (Abs.) *J. Anim. Sci.* 9:652. Nov.1950. 49 J82

14375 DRAPER, H. H., and JOHNSON, B. C. Thiamin deficiency in the lamb. (Abs.) *J. Anim. Sci.* 9:654-655. Nov.1950. 49 J82

14376 DYER, A. J. Maximum utilization of roughage and pasture in the production of fat lambs. (Abs.) *J. Anim. Sci.* 9:674. Nov.1950. 49 J82

14377 GALLUP, W. D., and others. Possible effect of urea and source of protein supplement on vitamin A utilization by sheep. (Abs.) *J. Anim. Sci.* 9:656. Nov. 1950. 49 J82

H. M. Briggs, L. S. Pope, and J. Tucker, joint authors.

14378 GARRIGUS, U. S., and others. The value of elemental sulfur in a methionine deficient sheep ration. (Abs.) *J. Anim. Sci.* 9:656-657. Nov.1950. 49 J82

H. H. Mitchell, W. H. Hale, and J. S. Albin, joint authors.

14379 HALE, W. H., and others. The B-vitamins in relation to a cobalt deficiency in sheep. *J. Anim. Sci.* 9: 484-490. Ref. Nov.1950. 49 J82

A. L. Pope, P. H. Phillips, and G. Bohstedt, joint authors.

14380 HARRIS, L. E., and others. The effect of feeding various levels of energy, protein and phosphorus to range sheep. (Abs.) *J. Anim. Sci.* 9:658. Nov.1950. 49 J82

C. W. Cook, L. A. Stoddart, and L. L. Madsen, joint authors.

14381 HOCKLEY, J. Growth of the suckler lamb; correct feeding will hasten development. *Agr. Gaz. N. S. Wales* 61:485-486. Sept.1,1950. 23 N472

14382 JORDAN, R. M. The feeding value of Norghum sorghum when fed to lambs. *J. Anim. Sci.* 9:495-498. Nov.1950. 49 J82

14383 KEITH, T. B., STARK, R. H., and HICKMAN, C. W. Alfalfa and alfalfa-brome grass hays for growing and fattening lambs. *J. Anim. Sci.* 9:491-494. Nov.1950. 49 J82

14384 KLOSTERMAN, E. W., and others. The effect of methionine supplementation upon the utilization of pea and alfalfa proteins by sheep. (Abs.) *J. Anim. Sci.* 9:661. Nov.1950. 49 J82

D. W. Bolin, W. E. Dinusson, and E. L. Lasley, joint authors.

14385 KUHN, R. P., HUGHES, J. S., and COX, R. F. Effect of physical character of feed on composition of ewes milk. (Abs.) *J. Anim. Sci.* 9:662. Nov.1950. 49 J82

14386 LEVECK, H. H. Winter grazing for lambs profitable in three years tests; rye grass leads. *Miss. Farm Res. [Miss. Sta.]* 13(10):7. Oct.1950. 100 M69Mi

14387 MERCURI, S. The future of the transhumance type of flocks and sheep. (In Italian.) *Agr. Ital.* 1:515-517. Oct.15,1950. 16 Ag822

English summary.

14388 MOWREY, R. C. Harvesting grain sorghums with lambs. *Sheep & Goat Raiser* 31(2):32. Nov.1950. 45.8 Sh3

14389 NEUMANN, A. L., PATTON, H. B., and GIFFORD, W. Thyroprotein feeding of ewes stimulates growth of the nursing lamb. (Abs.) *J. Anim. Sci.* 9:680. Nov.1950. 49 J82

14390 outhouse, J. B. Corn silage for whitering ewes. *East. Feed Merchant* 1(11):24-25,41. Nov.1950. 389.78 Ea7

14391 POPE, A. L. Feed formulation for sheep and beef cattle. (Abs.) *Feedstuffs* 22(48):12-13,56. Dec.2, 1950. 286.81 F322

14392 POPE, L. S., GALLUP, W. D., and WHITEHAIR, C. K. Ration factors affecting efficiency of utilization of urea nitrogen. (Abs.) *J. Anim. Sci.* 9:664-665. Nov.1950. 49 J82

In lambs.

14393 SCHMIDT, H. Here, concisely, is the nub of the mineral feeding problem. A valuable study of calcium and phosphorus required for sheep and goats. *Sheep & Goat Raiser* 31(2):20-21. Nov.1950. 45.8 Sh3

14394 SWIFT, R. W., COWAN, R. L., and BARRON, G. P. The effect of alfalfa ash upon roughage digestion in sheep. (Abs.) *J. Anim. Sci.* 9:669-670. Nov.1950. 49 J82

14395 VAN HORN, J. L., and others. Nutritional requirements of ewes wintered under range conditions. (Abs.) *J. Anim. Sci.* 9:676-677. Nov.1950. 49 J82

W. H. Burkett, G. F. Payne, G. C. Hughes, and F. S. Willson, joint authors.

14396 WEIR, W. C. Highly purified rations for sheep. (Abs.) *J. Anim. Sci.* 9:671. Nov.1950. 49 J82

14397 WHITEHAIR, C. K., NASH, R. L., and GALLUP, W. D. The effect of level of nutrition on reproduction and lactation in sheep. (Abs.) *J. Anim. Sci.* 9:672. Nov.1950. 49 J82

#### Veterinary Medicine

14398 ANASTAS'IAN, S. N. Clinical observations during infectious pleuropneumonia in goats and the consequences of the disease. (In Russian.) *Veterinarifa* 27(8):28-29. Aug.1950. 41.8 V6426

14399 BELSCHNER, H. G. Treatment of foot-rot and foot-abscess in sheep. *Agr. Gaz. N. S. Wales* 61: 477-479. Sept.1,1950. 23 N472

14400 EDGAR, G., ALBISTON, H. E., and BULL, L. B. Investigations into the etiology and control of enzootic (toxaemic) jaundice of sheep; report of the Investigation Committee for the year 1949/50. *Austral. Vet. J.* 26: 229-232. Sept.1950. 41.8 Au72

14401 GORDON, H. M. The wet season and worms in sheep. *Agr. Gaz. N. S. Wales* 61:445-447. Sept.1,1950. 23 N472

14402 HARTWIGK, H. Futteranschooping im lab-magen (obstipatio ventriculi chronica) als letalfaktor bei grauen Karakulschafen. *Berlin u. Münch. Tierärztl. Wehnschr.* 1950:161-164. Aug.1950. 41.8 B45

14403 JEBSON, J. L. Salmonellosis in sheep. *Austral. Vet. J.* 26:256-258. Sept.1950. 41.8 Au72

Includes discussion.

14404 KEAST, J. C. Heliotrope [*Heliotropium europaeum*] poisoning in sheep. *N. S. Wales. Dept. Agr. Div. Anim. Indus. Dis. Anim. L.* 61,2 p. 1949. 41.9 N473D

14405 KEITH, T. B., and others. The relation of the stage of development of the embryo to the phosphorus content of the blood of the ewe. (Abs.) *J. Anim. Sci.* 9: 660-661. Nov.1950. 49 J82

R. F. Johnson, W. H. Harvey, A. W. Wiese, and C. W. Hickman, joint authors.

14406 LOPYRN, A. I., LOGINOVA, N. V., and KARPOV, P. L. Experiment in interspecific transplantation of embryos in sheep. (In Russian.) *Sovet. Zootekh.* 5(8):50-64. Ref. Aug.1950. 49 So822

14407 LUCAS MORAN, B. Brucellosis caprina (fiebre de malta). *Res* 18:25136. Sept.5,1950. 286.85 R31

14408 MALAUSA, N. Sheep mange. (In Italian.) *Libia Agr.* 1950(13):3. Oct.29,1950. 24 L61

14409 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF ANIMAL INDUSTRY. Enterotoxaemia ("pulpy kidney"); a disease affecting fat sheep and lambs. *N. S. Wales. Dept. Agr. Div. Anim. Indus. Dis. Anim. L.* 60,5 p. 1949. 41.9 N473D

14410 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF ANIMAL INDUSTRY. Mycotic dermatitis, or lumpy wool. *N. S. Wales. Dept. Agr. Div. Anim. Indus. Dis. Anim. L.* 49,2 p. 1949. 41.9 N473D

14411 O'MARY, C. C., POPE, A. L., and CASIDA, L. E. The use of progesterone in the synchronization of the estrual periods in a group of ewes and the effect on their subsequent lambing records. *J. Anim. Sci.* 9:499-503. Nov.1950. 49 J82

14412 POPE, A. L., and others. The effect of certain steroid hormones on the growth, fattening, and carcass quality of heavy lambs. (Abs.) *J. Anim. Sci.* 9:680-681. Nov.1950. 49 J82

C. C. O'Mary, W. E. Batterman, R. W. Bray, and L. E. Casida, joint authors.

14413 RICHARD, R. M., and others. The effect of artificial hemorrhage versus *Haemonchus contortus* infection on certain blood constituents of lambs. (Abs.) *J. Anim. Sci.* 9:665. Nov.1950. 49 J82

T. L. Bahler, A. L. Pope, P. H. Phillips, C. A. Herrick, and G. Bohstedt, joint authors.



- 14414 ROBINET, A. H. Reflexions sur la vulgarisation de la vaccination antipestique par virus capripéristique dans le cercle de Tillabery (Niger). French West Africa. Insp. Gén. de l'Élevage. B. des Serv. de l'Élevage et des Indus. Anim. 2(4):63-67. Oct./Dec.1949. 41.9 F88B
- 14415 RYFF, J. F., and others. Removal of the fringed tapeworm [Thysanosoma actinoides] from sheep. Amer. Vet. Med. Assoc. J. 117:471-473. Dec.1950. 41.8 Am3
- J. Browne, H. L. Stoddard, and R. F. Honess, joint authors.
- 14416 SCHULZE, W., and STUBENRAUCH, M. E. Klinische beobachtungen bei inneren erkrankungen der ziegen. Monatsh. f. Vetmed. 5:283-285. Nov.1950. 41.8 M742
- 14417 VILLEGAS, V. Common ailments of goats. Agr. & Indus. Life 12(9):12-13. Sept.1950. 25 Ag8
- 14418 WHITING, F., and SLEN, S. B. Protein requirements of mature range ewes for lamb and wool production. (Abs.) J. Anim. Sci. 9:672-673. Nov.1950. 49 J82

#### Miscellaneous

- 14419 AUSTRALIA. WOOL BOARD. Handbook for woolgrowers. 1950 ed. Melbourne, 1950. 159 p. 41 Au72
- Contents: Parasites; Diseases; Management; The clip; Pasture.
- 14420 BESUDEN, H. C. Are you new in the sheep business? Sheepman 21:245. Dec.1950. 45.8 Sh32
- 14421 BÖRGER, H. Die ziegen auf der DLG-schau in Frankfurt am Main. Tierzüchter 2:451-453. Sept.5, 1950. 49 T445
- 14422 BOYD, D. T. La vie dans un élevage australien de moutons. Mouton 5:75-77. Aug./Sept.1950. 45.8 M86
- 14423 BUCHANAN, J. S. Raising sheep in North Carolina. N. C. Agr. Col. Ext. C. 356, 16 p. Nov.1950. 275.29 N811
- 14424 BURGESS, W. G. Fat lamb production in W. A. Austral. Farm & Home 59(8):40. Aug.1, 1950. 23 Au7
- 14425 CAPURRO, E. Cuidado de las majadas. Soc. Rur. Argentina. An. 84(7):40-43, 62. July 1950. 9 Sol
- 14426 CHICHKANOV, V. E. To improve the quality of wool. (In Russian.) Sotsialist. Zhivotnovod. 12(7):88-89. July 1950. 49 So71
- Chiefly on raising sheep in Bashkir ASSR.
- 14427 DUCK, R. W. Lambs in the fattening pen. Rur.-New Yorker 100:774, 784. Nov.4, 1950. 6 R88
- 14428 GARRIGUS, U. S. Do you know the weak points? How well are our sheep producing? Sheep & Goat Raiser 31(2):12-13. Nov.1950. 45.8 Sh3
- 14429 GERDTS, L. Charlie Kippen—sheepman. Farm Q. 5(4):36-40, 118-122. Winter 1951. 6 F22995
- 14430 GOULDY, T. Much room for expansion in sheep business. Sheep & Goat Raiser 31(2):9. Nov.1950. 45.8 Sh3
- Chiefly Texas.
- 14431 HAMILTON, L. H. Shaping up the flock. Macdonald Col. J. 11:6-7, inside back cover. Sept.1950. 101 M144
- Sheep.
- 14432 HORLACHER, L. J. Fall shearing cuts lambing season. Sheep & Goat Raiser 31(2):36-37. Nov.1950. 45.8 Sh3
- 14433 KOZKO, D. I., and MALAKHOV, I. P. Planning and organizing the work on a sheep-breeding farm during the lambing period of Merino sheep. (In Russian.) Sovet. Zootekh. 5(8):33-42. Aug.1950. 49 So822
- 14434 LACEY, J. Western ewes start new flocks. Sheepman 21:261. Dec.1950. 45.8 Sh32
- Wisconsin.
- 14435 MINGLEDDORFF, G. Sheep do well in Georgia. Prog. Farmer, Ga.-Ala.-Fla. Ed. 65(11):134. Nov.1950. 6 P945G
- 14436 NIKOLITCH, D. Resultats des recherches sur la finesse et l'egalisation de la laine de nos races et variétés ovines dans la periode d'apres-guerre. (In Croatian.) Yugoslavia. Min. Poljoprivrede. Radovi Poljoprivrednih Naučno-Istraživačkih Ustanova 1:225-234. 1949. 21.5 Y93
- French summary.
- 14437 RANDOLPH, C. Raising sheep; here's what experienced sheep men think. Prairie Farmer, Gen. Ed. 122(23):6. Dec.2, 1950. 6 P883

- 14438 ROSE, P. D. Shearing time. Farming So. Africa 25:288, 301. Sept.1950. 24 So842
- 14439 SARTHOU-MOUTENGOU, J. L'élevage ovin dans la partie girondine des Landes de Gascogne. France. Min. de l'Agr. B. Tech. d'Inform. 52:543-546. Sept.1950. 14 F844B
- Care.
- 14440 THOMPSON, D. S. Ewes for the farm flock. Tasmanian J. Agr. 21:205-210. Aug.1950. 23 T182T
- 14441 THOMPSON, D. S. Intensive flock management. Tasmanian J. Agr. 21:228-230. Aug.1950. 23 T182T
- Sheep husbandry.
- 14442 VISOCCHI, V. The problem of organization for protection of sheep producers. (In Italian.) Allevatore 6(37):1-2. Sept.17, 1950. 49 AL55
- Italy.

#### SWINE

##### Breeds and Breeding

- 14443 BAKER, F. M. Those Island pigs. Country Guide 69(11):10, 28-29. Nov.1950. 7 C76
- Prince Edward Island Yorkshires.
- 14444 BECKMAN, H. J. Good Poland Chinas—Tulare County (Calif.) hog breeders raise some of the Nation's finest. West. Livestock J. 28(64):126. Nov.15, 1950. 6 F2278
- 14445 BLOUNT, W. P. Rib counts on pigs of British breeds, and their familial inheritance. Brit. Vet. J. 106:420-422. Nov.1950. 41.8 V643
- 14446 BRUNNERT, Die veredelten landschweine ein glanzstück der Westfalenschau. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1239-1240. Sept.7, 1950. 18 L2346
- 14447 CHAMBERS, D., and WHATLEY, J. A., JR. Heterosis in crosses of inbred lines of Duroc swine. (Abs.) J. Anim. Sci. 9:635-636. Nov.1950. 49 J82
- 14448 DELAFORGE, O. Les races porcines françaises: la race Large White. Monit. Agr. 3(131):4. Oct.15, 1950. 14 M744
- 14449 HETZER, H. O., HANKINS, O. G., and ZELLER, J. H. Performance of crosses between six inbred lines of swine. (Abs.) J. Anim. Sci. 9:638. Nov.1950. 49 J82
- 14450 MENEUGH, H. Promotion of Poland China breed. Poland China-World 37(11):12-14. Dec.1950. 46.8 Sw62
- 14451 PHILIPP, H. Hybridisation in der schweinezucht. Deut. Landwirt. Presse 73(20):1. Sept.23, 1950. 18 D482
- 14452 RODRIGUE, X. N. Soin et alimentation des reproducteurs: le verrat. Digeste de l'Éleveur 5(3):17-18. Nov.1950. 49 D56
- 14453 SAVICH, I. A. Results of investigating the Kalikino group of swine for breeding. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 11:123-126. 1949. 20 M857
- 14454 TRULSSON, G. Prominent boar lines in the swine industry. (In Swedish.) Skand. Kreatursförsäkringsbolaget. Månadsblad 28:99-101. Sept.1950. 49.9 Sk1
- 14455 WHITEMAN, J. V., HILLIER, J. C., and WHATLEY, J. A. Carcass studies on hogs of different breeding. (Abs.) J. Anim. Sci. 9:640-641. Nov.1950. 49 J82
- 14456 ZHIRNOV, I. E. Ievlevo group of swine for breeding. (In Russian.) Sotsialist. Zhivotnovod. 12(6):34-39. June 1950. 49 So71

##### Feeds and Feeding

- 14457 ABRAMS, J. T., SCORGIE, N. J., and WILLIS, G. A. Pig feeding trials with 2:3:5:6-tetrachloronitrobenzene (TCNB). Brit. Vet. J. 106:413-420. Nov.1950. 41.8 V643
- 14458 ALBAUGH, R. Growth and thrift—rapid, more economical gains indicate value of pasture in pork production. West. Livestock J. 28(64):127-128. Nov.15, 1950. 6 F2278
- 14459 ANDERSON, G. C., and HOGAN, A. G. The value of a vitamin B<sub>12</sub> concentrate for brood sows. (Abs.) J. Anim. Sci. 9:646. Nov.1950. 49 J82
- 14460 BARDT, R. Die kartoffelverwertung im schweinemagen. Hannoversche Land- u. Forstwirtschaft. Ztg. 103:866-867. Sept.30, 1950. 18 H194



- 14461 BARNHART, C. E. Protein and vitamin supplements for growing-fattening pigs on Ladino clover and on alfalfa. (Abs.) *J. Anim. Sci.* 9:673-674. Nov.1950. 49 J82
- 14462 BARRICK, E. R., and others. Some factors affecting the nutritive value of cottonseed meal for swine. (Abs.) *J. Anim. Sci.* 9:646. Nov.1950. 49 J82  
F. H. Smith, G. Matrone, H. A. Stewart, and G. H. Wise, joint authors.
- 14463 BLOSS, R. E., and others. The supplementary effect of tryptophan in swine rations containing meat scraps. (Abs.) *J. Anim. Sci.* 9:648-649. Nov.1950. 49 J82  
R. W. Luecke, W. N. McMillen, and F. Thorp, Jr., joint authors.
- 14464 BONADONNA, T. Notes on the feeding of swine. (In Italian.) *Mondo del Latte* 1950:462-464. (Cont.) Sept.1950. 44.8 M74
- 14465 BOWLAND, J. P., BEACOM, S. E., and MCELROY, L. W. Animal protein factor supplementation of small grain rations for swine. (Abs.) *J. Anim. Sci.* 9:649. Nov.1950. 49 J82
- 14466 BRIGGS, J. E., and BEESON, W. M. The supplementary effect of B-vitamins, APF concentrates, and streptomycin on growth of weanling pigs. (Abs.) *J. Anim. Sci.* 9:649. Nov.1950. 49 J82
- 14467 BRINEGAR, M. J., LOOSLI, J. K., and WILLIAMS, H. H. The utilization of whole egg, casein, blood flour and linseed proteins supplemented with amino acids for swine. (Abs.) *J. Anim. Sci.* 9:650. Nov.1950. 49 J82
- 14468 BROWN, J. H., and LUTHER, H. G. Effect of antibiotics and other growth stimulating substances in the rations of growing and fattening hogs. (Abs.) *J. Anim. Sci.* 9:650. Nov.1950. 49 J82
- 14469 BRUGMAN, H. H. The effect of the plane of nutrition on the carcass quality of a line of swine based on a Chester White and Danish Landrace cross. *J. Anim. Sci.* 9:602-607. Nov.1950. 49 J82
- 14470 CARPENTER, L. E. Effect of an APF concentrate containing aureomycin on gestating and lactating swine. (Abs.) *J. Anim. Sci.* 9:651. Nov.1950. 49 J82
- 14471 CARPENTER, L. E., and BRIGGS, G. M. Research on livestock and poultry growth stimulants marches ahead; antibiotics in swine feeds, antibiotics in poultry feeds. *Minn. Farm & Home Sci. [Minn. Sta.]* 8:8-9,11,15. Oct.1950. 100 M668
- 14472 CATRON, D. V. APF and antibiotics in swine nutrition. *Hog Breeder* 25(12):4,12. Dec.1950. 46.8 H672
- 14473 CATRON, D. V., and others. Effect of different levels of aureomycin with and without vitamin B<sub>12</sub> on growing-fattening swine. (Abs.) *J. Anim. Sci.* 9:652. Nov.1950. 49 J82  
V. C. Speer, H. M. Maddock, and R. L. Vohs, joint authors.
- 14474 CRAMPTON, E. W., and ASHTON, G. C. The effects of crude fibre in the finishing ration of bacon hogs. *Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg.* 16:38-45. 1949. 59.9 C169
- 14475 CUFF, P. W., and others. Rations for slow-growing (runt) pigs. (Abs.) *J. Anim. Sci.* 9:653. Nov.1950. 49 J82  
H. M. Maddock, V. C. Speer, D. V. Catron, joint authors.
- 14476 CUNHA, T. J., and others. APF, B<sub>12</sub>, B<sub>13</sub>, and related factors for the pig. (Abs.) *J. Anim. Sci.* 9:653. Nov.1950. 49 J82  
H. M. Edwards, G. B. Meadows, R. H. Benson, A. M. Pearson, and R. S. Glasscock, joint authors.
- 14477 CUNHA, T. J., and others. Effect of APF supplement on efficiency of feed utilization for the pig. *J. Anim. Sci.* 9:615-618. Nov.1950. 49 J82  
J. E. Burnside, G. B. Meadows, H. M. Edwards, R. H. Benson, A. M. Pearson, and R. S. Glasscock, joint authors.
- 14478 CUNHA, T. J., and others. Effect of aureomycin and other antibiotics on the pig. (Abs.) *J. Anim. Sci.* 9:653-654. Nov.1950. 49 J82  
G. B. Meadows, H. M. Edwards, R. F. Sewell, C. B. Shawver, A. M. Pearson, and R. S. Glasscock, joint authors.
- 14479 DINUSSON, W. E., and others. Stimulation of gain of swine by cobalt and APF. (Abs.) *J. Anim. Sci.* 9:654. Nov.1950. 49 J82  
E. W. Klosterman, E. L. Lasley, and M. L. Buchanan, joint authors.
- 14480 DOBBINS, F. A., and others. Comparison of high and low protein corn as evaluated by the biological value method. (Abs.) *J. Anim. Sci.* 9:654. Nov.1950. 49 J82  
J. L. Krider, T. S. Hamilton, and S. W. Terrill, joint authors.  
Swine feeding tests.
- 14481 DOBBINS, F. A., and others. Comparison of high and low protein corn for growing-fattening pigs in drylot. *J. Anim. Sci.* 9:625-633. Nov.1950. 49 J82  
J. L. Krider, T. S. Hamilton, E. B. Earley, and S. W. Terrill, joint authors.
- 14482 DUCKWORTH, J., and HEAD, M. Proteins and minerals in pig feeding. *Farming [Norwich]* 4:327-331. Nov.1950. 10 F2236
- 14483 DYER, I. A., CULLISON, A. E., and HAYS, W. J. Special solvent cottonseed meal with and without APF and streptomycin as a protein supplement for pigs fed in drylot. (Abs.) *J. Anim. Sci.* 9:655. Nov.1950. 49 J82
- 14484 EDWARDS, E. D. Use of meals with whey as pig food is still profitable. *New Zeal. J. Agr.* 81:243. Sept.1950. 23 N48J  
Meat and barley meal.
- 14485 ENSMINGER, M. E. Feeding the young pig; taking advantage of new developments in swine nutrition insures maximum profits. *Amer. Hampshire Herdsman* 25(12):6,16. Dec.1950. 46.8 Am33
- 14486 FORSHAW, R. P., and others. A proposed growth curve for nursing Duroc pigs raised in drylot. (Abs.) *J. Anim. Sci.* 9:655-656. Nov.1950. 49 J82  
H. M. Maddock, P. G. Homeyer, and D. V. Catron, joint authors.
- 14487 GEURIN, H. B., HOEFER, J. A., and BEESON, W. M. Protein efficiency of corn by-products and other protein feeds for swine growth. (Abs.) *J. Anim. Sci.* 9:657. Nov.1950. 49 J82
- 14488 HEIDEBRECHT, A. A., and others. Reproduction and lactation performance of sows fed vitamin and APF concentrates. (Abs.) *J. Anim. Sci.* 9:658-659. Nov.1950. 49 J82  
O. B. Ross, R. W. MacVicar, and C. K. Whitehair, joint authors.
- 14489 HODGSKISS, H. W., and others. Inadequacy of purified diets for reproduction by swine with observations on an added deficiency of pantothenic acid. *J. Anim. Sci.* 9:619-624. Ref. Nov.1950. 49 J82  
M. E. Enslinger, R. W. Colby, and T. J. Cunha, joint authors.
- 14490 HOMB, T. Feeding of fattening swine now. (In Norwegian.) *Buskap og Avdrått* 1950(3):39,41-43. 49 B96
- 14491 HOMEYER, P. G., MADDOCK, H. M., and CATRON, D. V. More efficient design of swine feeding experiments. (Abs.) *J. Anim. Sci.* 9:660. Nov.1950. 49 J82
- 14492 HUTCHINSON, J. They harvest their own feed. *Farmers Wk. [London]* 33(18):51. Nov.3,1950. 10 F2226  
Grazing pigs on a Buckinghamshire farm.
- 14493 KERR, M. H. More profits in summer thru swine feed control. *Atterton Vet. Supply Co. Capital Forecast* 1:5. July 1950. 41.9 At4
- 14494 KOZLOVSKII, V. Fattening characteristics of young pigs in industrial crossing. (In Russian.) *Mfasnaf Indus. SSSR.* 21(2):78-82. Mar./Apr.1950. 50.8 M58
- 14495 LACEY, J. J. Feed formulations for swine. *Feedstuffs* 22(42):51-53. Oct.21,1950. 286.81 F322
- 14496 LASLEY, J. F., ANDERSON, G. C., and HOGAN, A. G. APF supplements in rations for growing pigs. (Abs.) *J. Anim. Sci.* 9:662. Nov.1950. 49 J82
- 14497 LEPLEY, K. C., CATRON, D. V., and CULBERTSON, C. C. Dried whole aureomycin mash and meat and bone scraps for growing-fattening swine. *J. Anim. Sci.* 9:608-614. Nov.1950. 49 J82
- 14498 LUECKE, R. W., and others. The effects of antibiotics fed at low levels on the growth of weanling pigs. (Abs.) *J. Anim. Sci.* 9:662-663. Nov.1950. 49 J82  
H. W. Newland, W. N. McMillen, and F. Thorp, Jr., joint authors.
- 14499 MACEWAN, G. Wheat for pigs and other livestock. *Family Herald & Wk. Star* 81(47):4. Nov.23,1950. 7 F21  
Frosted wheat.
- 14500 MOFFITT, J. G., and others. The effect of high and low fat corn on carcass quality in hogs. (Abs.) *J. Anim. Sci.* 9:644. Nov.1950. 49 J82  
J. L. Krider, S. W. Terrill, and S. Bull, joint authors.



- 14501 MOZGOVAIA, R., and SADOVNIKOVA, N. Swine fattening with food waste. (In Russian.) *Mfasnaf Indus. SSSR*. 21(3):63-66. May/June 1950. 50.8 M58
- 14502 NESHEIM, R. O., KRIDER, J. L., and JOHNSON, B. C. Antibiotics, whey, and APF for baby pigs. (Abs.) *J. Anim. Sci.* 9:664. Nov.1950. 49 J82
- 14503 NOLAND, P. R. Minerals for swine. *Feed Bag* 26(12):31,84,90. Dec.1950. 389.78 F32
- 14504 OWTRAM, I. H. Systems of pig feeding and management in New Zealand. *New Zeal. J. Agr.* 81:241-242. Sept.1950. 23 N48J
- 14505 PARRISH, D. B., and others. Comparative value of vitamin A and carotene for supplying the vitamin A requirements of swine during gestation and beginning lactation. (Abs.) *J. Anim. Sci.* 9:664. Nov.1950. 49 J82
- C. E. Aubel, J. D. Wheat, and J. S. Hughes, joint authors.
- 14506 RICHARDSON, D., and others. Vitamin B<sub>12</sub> requirement of weanling pigs fed a semi-synthetic ration. (Abs.) *J. Anim. Sci.* 9:665-666. Nov.1950. 49 J82
- D. V. Catron, L. A. Underkofler, and H. M. Maddock, joint authors.
- 14507 RICHTER, F. Vergleichende fütterungsversuche mit dorschmehl und extrahiertem fischmehl bei mastschweinen. *Tierzüchter* 2:511-513. Oct.5,1950. 49 T445
- 14508 ROBISON, W. L. Cobalt with a soybean oil meal ration for pigs. (Abs.) *J. Anim. Sci.* 9:665. Nov.1950. 49 J82
- 14509 RUPP, R. G. Those "wonder drugs"; the antibiotics-aureomycin especially-will produce amazing swine, poultry growth. But they aren't cure-alls for every disease. *Farmer [St. Paul] Gen. Ed.* 68(20):8,53. Oct.21,1950. 6 F2211
- 14510 SHEFCHIK, B. E., and others. Comparison of growth responses to streptomycin, aureomycin and crude APF, alone and in combination with B<sub>12</sub> on 2-day-old pigs using a "synthetic" milk. (Abs.) *J. Anim. Sci.* 9:667. Nov.1950. 49 J82
- C. Acevedo, R. H. Grummer, P. H. Phillips, and G. Bohstedt, joint authors.
- 14511 SHELTON, D. C., BEESON, W. M., and MERTZ, E. T. Further studies on the amino acid requirements of swine. (Abs.) *J. Anim. Sci.* 9:668. Nov.1950. 49 J82
- 14512 SMITH, H. J., and others. The effect of pasture on rate and efficiency of gain and on carcasses of swine full-fed and fed 80 and 60 percent of a full feed. (Abs.) *J. Anim. Sci.* 9:676. Nov.1950. 49 J82
- J. W. Cole, C. S. Hobbs, J. A. Erwing, E. J. Chapman, and J. B. McLaren, joint authors.
- 14513 SPEER, V. C., and others. Trace minerals for growing-fattening swine fed in drylot. (Abs.) *J. Anim. Sci.* 9:668-669. Nov.1950. 49 J82
- D. V. Catron, P. G. Homeyer, and C. C. Culbertson, joint authors.
- 14514 SPEVAK, V. Swine fattening on a farm of [Pereslav District] procurement agency. (In Russian.) *Mfasnaf Indus. SSSR*. 21(3):57-60. May/June 1950. 50.8 M58
- 14515 STEPHENSON, E. L., and NEUMANN, A. L. The use of detoxified cottonseed meal in swine nutrition. (Abs.) *J. Anim. Sci.* 9:669. Nov.1950. 49 J82
- 14516 TERRILL, S. W., and KRIDER, J. L. A comparison of solvent soybean oil meals and the effect of adding aureomycin, dried whey product with whey fermentation solubles, and APF in drylot rations of weanling pigs. (Abs.) *J. Anim. Sci.* 9:670. Nov.1950. 49 J82
- 14517 THOMAS, B. H., and CHENG, E. W. Dietary relationship between vitamin B<sub>12</sub> and quantity of protein. (Abs.) *J. Anim. Sci.* 9:670. Nov.1950. 49 J82
- Swine feeding.
- 14518 THORPE, F. B-vitamin deficiencies in pigs raised on farms. *Feedstuffs* 22(43):43-44. Oct.28,1950. 286.81 F322
- Also in *Western News* 12(2):38-40. Oct.1950. 389.78 W522
- 14519 TOMME, L., and KARAVAEVA, S. Utilization of potato waste for swine fattening. (In Russian.) *Mfasnaf Indus. SSSR*. 21(2):75-77. Mar./Apr.1950. 50.8 M58
- 14520 VAN DER VYVER, B. J. Rations for growing pigs; nutritive value of fishmeal and peanut oil-cake meal. *Farming So. Africa* 25:266-268. Aug.1950. 24 S0842
- 14521 VAN POUCKE, R. F., and others. Supplementing a corn soybean oil meal ration with an APF concentrate, dried whey with whey fermentation solubles, and a combination of commonly used feed supplements for brood sows in drylot. (Abs.) *J. Anim. Sci.* 9:670-671. Nov.1950. 49 J82
- O. D. Hanson, H. T. Peeler, and N. E. Rodgers, joint authors.
- 14522 WATTS, A. B., and others. APF supplements for growing pigs. (Abs.) *J. Anim. Sci.* 9:671. Nov.1950. 49 J82
- M. P. Botkin, J. A. Whatley, and O. B. Ross, joint authors.
- 14523 WILDER, O. H. M., and others. Dried blood supplements in swine-type rations. (Abs.) *J. Anim. Sci.* 9:673. Nov.1950. 49 J82
- C. R. Myers, M. W. Darrow, and M. M. Hanke, joint authors.
- 14524 WILDER, O. H. M. Pigs and chickens still need tankage and meat scrap. *Butchers' Advocate* 128(22):10-11. Nov.29,1950. 286.85 B97

# Veterinary Medicine

- 14525 BARNHART, E. Little evidence of new hog disease say Purdue veterinarians; variant strain of cholera blamed for hog losses. *Purdue Agr.* 42:4. Oct.1950. 6 P97
- 14526 BAUMANN, R., and LIEBISCH, H. Zur histopathologie des skelettsystems beim infantilen skorbut des schweines (Möller-Barlowsche Krankheit). *Wien. Tierärztl. Monatsschr.* 37:521-526. Aug.1950. 41.8 T345
- 14527 CARPENTER, L. E. Effect of 3-nitro 4-hydroxy phenyl arsonic acid on the growth of swine. (Abs.) *J. Anim. Sci.* 9:651. Nov.1950. 49 J82
- 14528 CARTWRIGHT, G. E., and others. Experimental production of nutritional macrocytic anemia in swine. III. Further studies on pteroylglutamic acid deficiency. *J. Lab. & Clin. Med.* 36:675-693. Ref. Nov.1950. 448.8 J8233
- J. G. Palmer, B. Tatting, H. Ashenbrucker, and M. M. Wintrobe, joint authors.
- 14529 CATRON, D. V., and others. Effect of vitamin B<sub>12</sub>, APF and antibiotics on enteritis in swine. (Abs.) *J. Anim. Sci.* 9:651. Nov.1950. 49 J82
- A. B. Hoerlein, P. C. Bennett, P. W. Cuff, and P. G. Homeyer, joint authors.
- 14530 DOMMA, Anzeigepflichtige tierseuchen beim schwein. *Osterr. Fleischhauer- u. Fleischselcher-Ztg.* 38:7. Sept.23,1950. 50.8 Os7
- 14531 FLETCHER, J. L. Application of the Iberia heat tolerance test to swine. (Abs.) *J. Anim. Sci.* 9:677-678. Nov.1950. 49 J82
- 14532 GEBAUER, Kalk-arsen-vergiftung beim schwein. *Monatsh. f. Vetmed.* 5:263-264. Oct.1950. 41.8 M742
- 14533 GLÄSSER, K., and TÜNDELMANN, O. Corynebakterieninfektionen bei schweinen. *Monatsh. f. Vetmed.* 5:291-293. Nov.1950. 41.8 M742
- 14534 GLÄSSER, K. Ursache und bekämpfung des plötzlichen herztodes des schweines. *Tierzüchter* 2:455-457. Sept.5,1950. 49 T445
- 14535 GORDASHEVSKAYA, Enzoootic parenchymatous hepatitis in swine. (In Russian.) *Veterinariia* 27(8):23. Aug.1950. 41.8 V6426
- 14536 JUNGHANEL, E. Ein beitrag zur kasuistik der rachitischen tetanie bei schweinen. *Monatsh. f. Vetmed.* 5:264-265. Oct.1950. 41.8 M742
- 14537 KAZAKOVA, M. V., and KAZAKOV, B. N. Bronchopneumonia in young pigs and its treatment. (In Russian.) *Veterinariia* 27(8):20-21. Aug.1950. 41.8 V6426
- 14538 MACPHERSON, O. M. Worm diseases in pigs; methods of prevention and control. *N. S. Wales. Dept. Agr. Div. Anim. Indus. Dis. Anim. L.* 48,13 p. 1949. 41.9 N473D
- 14539 MARION, P. La dysenterie du porc. *Porc* 21(7):33,35. Sept.1950. 46.8 P822
- 14540 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF ANIMAL INDUSTRY. Brucellosis of swine. *N. S. Wales. Dept. Agr. Div. Anim. Indus. Dis. Anim. L.* 54,3 p. 1950. 41.9 N473D
- 14541 PETERSEN, N. Sonnenlicht und zuwachs bei ferkeln. *Deut. Landwirt. Presse* 73(19):3. Sept.9,1950. 18 D482



14542 PETROV, V. F. Allergic diagnosis of erysipelas in swine. (In Russian.) Veterinariia 27(8):21-23. Aug.1950. 41.8 V6426

14543 PILLINGER, D. B. Nutritional deficiency diseases of pigs. Tasmanian J. Agr. 21:202-204. Aug. 1950. 23 T182T

14544 RALSTON PURINA CO. Relation of nutrition to swine enteritis. Nutr. News B. 6(4), 4 p. Oct.1950. 389.78 N95

14545 ROBERTSON, G. L., GRUMMER, R. H., and CASIDA, L. E. A study of puberty and related phenomena in Chester White and Poland China gilts. (Abs.) J. Anim. Sci. 9:681-682. Nov.1950. 49 J82

14546 ROBINSON, G. E., JR., and NALBANDOV, A. V. The hormone content of pituitaries of cycling swine. (Abs.) J. Anim. Sci. 9:682. Nov.1950. 49 J82

14547 ROSS, T. C. Lupine poisoning of swine. Ga. Vet. 2(5):5. Sept./Oct.1950. 41.8 G29

14548 SAILLARD, L. La streptococcie porcine. Colon Franç. de Tunisie 60(2166):3:(2167):4. (Cont.) Oct.7-14,1950. 24 C712

14549 SCHMEDEMAN, O. Erfahrungen aus der praxis der schweine-geburtshilfe. Deut. Tierärztl. Wchenschr. 57:332-334. Oct.15,1950. 41.8 D482

14550 SHEFCHIK, B. E., and others. Changes in various constituents of sows' milk from colostrum to 30-day milk. (Abs.) J. Anim. Sci. 9:668. Nov.1950. 49 J82  
H. A. Dymsha, R. H. Grummer, P. H. Phillips, and G. Bohstedt, joint authors.

14551 SQUIERS, C. D., DICKERSON, G. E., and MAYER, D. T. Factors affecting litter size during early pregnancy in certain strains of swine and their crosses. (Abs.) J. Anim. Sci. 9:683. Nov.1950. 49 J82

14552 STEWART, H. A., and others. A comparison of the copper values in the blood serum of swine with that of other farm animals. (Abs.) J. Anim. Sci. 9:669. Nov.1950. 49 J82

G. Matrone, J. A. Weybrew, and H. M. Baxley, joint authors.

14553 VAITSMAN, J. What it is and how to avoid taeniasis in swine. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:110. Apr./June 1950. 9.2 R325

14554 WALKER, R. H., and EDMONDS, E. V. Mixed sulfonamides (merameth) for enteritis-pneumonia syndrome in swine. Amer. Vet. Med. Assoc. J. 117:467-468. Dec.1950. 41.8 Am3

14555 WATSON, C. J., and others. Digestibility studies with swine. IV-V. Sci. Agr. 30:467-482. Nov. 1950. 7 Sc12

J. W. Kennedy, W. M. Davidson, and E. B. Fraser, joint authors.

14556 WHITEHAIR, C. K., WATTS, A. B., and ROSS, O. B. Urea, N.P.N. [non-protein nitrogen] and blood sugar values of baby pigs exposed to transmissible gastroenteritis. (Abs.) J. Anim. Sci. 9:672. Nov.1950. 49 J82

14557 WIGGINS, E. L., and others. Causes of variation in puberty phenomena in inbred swine. (Abs.) J. Anim. Sci. 9:684. Nov.1950. 49 J82

A. C. Warnick, L. E. Casida, R. H. Grummer, and A. B. Chapman, joint authors.

14558 YOUNG, G. A., JR., and UNDERDAHL, N. R. Neutralization and hemagglutination inhibition of swine influenza virus by serum from suckling swine and by milk from their dams. J. Immunol. 65:369-373. Ref. Oct.1950. 448.8 J8232

#### Miscellaneous

14559 ALBRECHT, R. Play safe with swine sanitation. Prairie Farmer, Gen. Ed. 122(22):1-2,38. Nov.18, 1950. 6 P883

14560 BAADE, G. A. Die schweine auf der jubiläumsausstellung in Oldenburg. Landwirtsch. Weser-Ems 97: 838-839. Oct.5,1950. 18 L2345

14561 BERNARD, C. S., and others. Study of the use and effectiveness of a swine selection index on Wisconsin farms. (Abs.) J. Anim. Sci. 9:634-635. Nov.1950. 49 J82

K. T. Trimble, A. B. Chapman, and D. H. Williams, joint authors.

14562 EDMONDS, H. Pigs and plenty. Farmers Wk [London] 33(19):61,63. Nov.10,1950. 10 F2226  
Management of a small pig farm in South Wales.

14563 FLEURY, J. P. Société des Eleveurs de Porcs du Québec; avis aux éleveurs qui font de l'enregistrement supérieur. Digeste de l'Eleveur 4(9,i.e.10):20-21. June 1950. 49 D56

14564 GJELSTAD, B., and KARBO, A. Objectives and measures in swine production. (In Norwegian.) Buskap og Avdrått 1950(3):29-31. 49 B96

14565 GONZALEZ G., F. Apuntes sobre la cría y explotación del cerdo. Tierra [México] 5:684-688. Dec.1950. 8 T445

14566 GREGORY, K. E., and DICKERSON, G. E. Influence of inbreeding and plane of nutrition on rate and economy of gains, digestion and carcass composition of pigs. (Abs.) J. Anim. Sci. 9:637. Nov.1950. 49 J82

14567 GROVES, D. E. It's market time every month. Ohio Farmer 206(9):3,46. Nov.4,1950. 6 Oh3  
Practices on a hog farm.

14568 KELLER, E. C. Fat swine show and sale contributes to improvement of enterprise in county. Agr. Educ. Mag. 23:101. Nov.1950. 275.8 Ag8

14569 LAWSON, T. Pig production in the lowlands of Scotland. Pig Breeders' Gaz. 63:49,53,55,57,59. Oct. 1950. 46.8 N21

14570 MARSHEV, G. N. Development of swine raising in Breïtov District [Araslov Region]. (In Russian.) Sořialist. Zhivotnovod. 12(6):44-45. June 1950. 49 So71

14571 PATTERSON, W. Some notes on pig production in Northern Ireland. Worcestershire Agr. Chron. 18:319,321,323,325. Aug./Oct.1950. 10 W892

14572 RIBEIRO, G. A. Hygiene in the care of swine. (In Portuguese.) Seleg. Agr. 5(53):61-62. Sept.1950. 9.2 Se4

14573 SALEGÅRD, A. J. On health control in swine herds producing young pigs. (In Swedish.) Blekinge Låns Hushållsk. Tidskr. 1950(2):45,47-48. 11 B61

14574 SELLARDS, G. Always looking for a better hog. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 65(11):19,149. Nov.1950. 6 P945K

14575 ZHIRNOV, I. A farm of leviev pigs. (In Russian.) Kolkhoz. Proizvodstvo 10(7):31-32. July 1950. 281.8 K83

On Pobeda Collective Farm in Bogoroditskii District, Tula Region.

#### ENTOMOLOGY

##### GENERAL

14576 BECK, P. La vie sociale chez les insectes. Abeille et l'Erable (ser.2)19:126-128. (To be cont.) Oct. 1950. 424.8 Ab32

14577 BERTELS, A. Organization of entomological work. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:58. Apr./June 1950. 9.2 R325

14578 BURTON, J. F. Observations on a migration of insects over the Thames Estuary. Entomologist 83: 203-206. Sept.1950. 421 En8

14579 HUXLEY, P. Clowns, jet-planes and lights; the insect world has them all. Farm & Ranch Rev. 46(10): 10-11. Oct.1950. 7 F223

14580 JOHANSSON, K. E. Våra smådjur i och vid sötvatten [Our little creatures in and beside fresh water]. Stockholm, Bonnier, 1950. 91 p. 411.2 J59  
Includes insects.

14581 LUNDBLAD, O. All Gotska Sandön now a nature sanctuary. (In Swedish.) Ent. Tidskr. 71:155-158. 1950. 421 En891  
Insect fauna of the island.

14582 LUNDBLAD, O. Some insect finds during the summer of 1949. (In Swedish.) Ent. Tidskr. 71:97-103. 1950. 421 En891  
Northern Sweden.

14583 SNODGRASS, R. E. Comparative studies on the jaws of mandibulate arthropods. Smithsn. Inst. Misc. Collect. 116(1), 85 p. Ref. Nov.16,1950. 500 Sm6M  
Includes Chilopoda, Pauropoda, Symphyla, Diplopoda, and various groups of insects.

14584 WEBER, N. A. A survey of the insects and related arthropods of Arctic Alaska. I. Amer. Ent. Soc. Trans. 76:147-206. Ref. Sept.1950. 420 P53  
Arachnida, Chilopoda, and insects.



## GENERAL - ECONOMIC

- 14585 ANDERSON, R. H. Insect control goes with cotton fertilizer plan. *Better Crops Plant Food* 34(9):23, 39. Nov.1950. 6 B46
- 14586 ANDROUIN, P. Utilisation des dérivés du pétrole en agriculture. *Agriculture [Paris]* 14:279-282. (To be cont.) Oct.1950. 14 Ag823
- As insecticide.
- 14587 AWE, W., and REINECKE, I. Über die einwirkung von chlor auf  $\alpha$ ,  $\alpha$ -bis(4-chlor-phenyl) $\beta$ ,  $\beta$ -trichlor-aethan (DDT). *Arch. der Pharm.* 283:162-165. 1950. 396.8 Ar2A
- 14588 BARGIONI, G. Disinfestation of mills. (In Italian.) *Selez. di Tec. Molitoria* 1(2):27,32;(4):15-17. (Cont.) June, Aug.1950. 298.8 Se42
- Insect pest control.
- 14589 BLANC, H. Les huiles blanches au service de l'agriculture. *Bouches du Rhône Agr.* 23(1035):10;(1037) 10. (Cont.) Oct.2,15,1950. 14 B662
- Insect control.
- 14590 BUCHWALD, J. Getreidelagerung und schädlingbekämpfung. *Müllerei* 3:618-619. Sept.23, 1950. 298.8 M91
- 14591 BURNETT, D., JR. Can you identify fabric pests? 1-2. *Pest Control* 18(11):9-11,18;(12):16-18,20,22. Nov.-Dec.1950. 449.8 Ex8
1. The clothes moths [*Tineola bisselliella*, *Tinea pellionella*, *Trichophaga tapetziella*]; 2. Carpet beetles [*Attagenus piceus*, *Anthrenus scrophulariae*, *A. vorax*, *A. verbasci*].
- 14592 BUSHLAND, R. C., and others. Contamination of meat and milk by chlorinated hydrocarbon insecticides used for livestock pest control. *J. Econ. Ent.* 43:649-652 Oct.1950. 421 J822
- H. V. Claborn, H. F. Beckman, R. D. Radeleff, and R. W. Wells, joint authors.
- 14593 CAIRASCHI, E. A. Pflanzenschutz vor winterbeginn. *Bas-Rhin Agr.* 5:521,532. (Cont.) Oct.28, Nov.4, 1950. 14 B29
- Insect and disease control.
- 14594 CALHOUN, S. L., and SMITH, W. R. Control of boll weevil [*Anthonomus grandis*], bollworm [*Heliothis armigera*], and cotton aphid [*Aphis gossypii*] with organic insecticides applied as concentrated sprays. *J. Econ. Ent.* 43:606-610. Oct.1950. 421 J822
- 14595 CAMPBELL, H. J. Natural allies. 3. Insects. *Health & Soil* 1950:31-32. Summer/Autumn 1950. 56.8 H34
- 14596 CANDURA, G. S. Fauna, flora in harmony. (In Italian.) *Avvenire Agr.* 58:241-244. Oct.1950. 16 Av9
- Use of synthetic phosphoric esters in insect control of fruit.
- 14597 CHAMBERLIN, F. S. Insecticidal control of aphids and other insects on shade-grown tobacco. *J. Econ. Ent.* 43:640-641. Oct.1950. 421 J822
- Myzus persicae*; *Feltia subterranea*, *Epitrix hirtipennis*, *Halictus bracteatus*, *Protoparce sexta*.
- 14598 CHEN, T. N., and HU, C. Y. Investigations on the comparative toxicology of DDT, gammexane and rotenone as stomach poisons. (In Chinese.) *Taiwan Sugar J.* 3:175-190. Ref. Aug.1950. 65.8 T13
- English summary.
- 14599 CHIU, S. F. Effectiveness of Chinese insecticidal plants with reference to the comparative toxicity of botanical and synthetic insecticides. *J. Sci. Food & Agr.* 1:276-286. Ref. Sept.1950. 382 So12
- 14600 COCHRAN, J. H., and NETTLES, W. C. The pecan insect situation in South Carolina. *Soeast. Pecan Growers Assoc. Proc.* 43:36-38. 1950. 94.69 G29
- 14601 CONNECTICUT UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Apple spray guide, 1950, by F. D. Johanson, P. Garman, and E. M. Stoddard Storrs, 1950. 4 p. 275.29 C75Ap
- 14602 COTTON, R. T. Insect pests of stored grain and grain products, identification, habits and methods of control. *Rev. ed. Minneapolis, Burgess*, 1950. 244 p. Ref. 423 C82
- 14603 DAVIDSOHN, J., and DAVIDSOHN, A. Household insecticides. *Soap, Perfumery & Cosmetics* 23:1118-1123. Ref. Nov.1950. 307.8 So13
- 14604 DE JONG, J. R. Field method for the determination of the particle size of oil mists. *Ann. Appl. Biol.* 37:516-526. Sept.1950. 442.8 An72
- 14605 DORMAL, S. Les bombes aérosols à basse pression. *B. Agr. du Congo Belge* 41:674-676. Sept.1950. 24 K83
- 14606 EDWARDS, G. R. Insect pests of vegetable crops. II. Insect pests of potatoes. *So. Austral. Dept. Agr. J.* 54:19-24. Aug.1950. 23 So84
- 14607 ELLIOTT, M., NEEDHAM, P. H., and POTTER, C. The insecticidal activity of substances related to the pyrethrins. I. The toxicities of two synthetic pyrethrin-like esters relative to that of the natural pyrethrins and the significance of the results in the bioassay of closely related compounds. *Ann. Appl. Biol.* 37:490-507. Ref. Sept.1950. 442.8 An72
- Tests with *Phaedon cochleariae*, *Oryzaephilus surinamensis*, *Plutella maculipennis*, *Macrosiphum solanifolii*, and *Aphis fabae*.
- 14608 EMERY, G. A. Recent developments in insecticides in field and factory. *Brit. Food Mfg. Indus. Res. Assoc. Sci. & Tech. Surveys* 13,8 p. Dec.1949. 330.9 B773
- Contents: Foreward; Organic chlorine insecticides; Organic phosphorus insecticides; Insecticides in the factory; Discussion.
- 14609 EWING, K. P., and PARENIA, C. R., JR. Early-season application of insecticides on a community-wide basis for cotton-insect control in 1950. *U. S. Bur. Ent. & Plant Quar.* E-810,8 p. Dec.1950. 1.9 En83
- 14610 FIELDS, M., GIBBS, J., and WALZ, D. E. The synthesis of 1,1,1-trichloro-2,2-bis(4'-chlorophenyl)-4'-C14)-ethane. *Science* 112:591-592. Nov.17,1950. 470 Sci2
- 14611 FREAR, D. E. H., BRUCE, W. N., and RAGSDALE, A. C. DDT in milk following barn spraying. *J. Econ. Ent.* 43:656-657. Oct.1950. 421 J822
- 14612 GIESER, A. The use of aircraft in application of agricultural chemicals. *West. Weed Control Conf. Proc.* 12:36-41. 1950. 79.9 W52
- For pest control.
- 14613 GOOSSEN. Die bekämpfung von bodeninsekten. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1273-1274. Sept.14,1950. 18 L2346
- 14614 GOUZENNE, P. Les esters phosphoriques au jardin. *Terre d'Occ* 32:403-405. Sept.1950. 14 Ar5
- For mole-cricket control.
- 14615 GRANDORI, R. On the antiparasitic conference; arms to protect the products of the soil. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 71:1-3. Oct.19,1950. 281.8 Ag3
- Insect control.
- 14616 GRIVANOV, K. P. Bor'ba s vreditel'ami mnogoletnikh trav [Control of pests of perennial leguminous plants and grasses]. *Stalingrad, Obl. Kn.-vo*, 1950. -75 p. 423 G88B
- 14617 HALPERN, L. K., WOOLDRIDGE, W. E., and WEISS, R. S. Appraisal of the toxicity of the gamma isomer of hexachlorocyclohexane in clinical usage. *Arch. Dermat. & Syph.* 62:648-650. Nov.1950. 448.8 Ar242
- 14618 HAMILTON, C. C. The use of mist blowers for pest control in the nursery. *Amer. Assoc. Nurserymen Proc.* 75:85-95. 1950. 81 Am3P
- 14619 HEREFORD, G. V. B. Some research problems in the field of stored products entomology. *Roy. Sanit. Inst. J.* 70:666-673. Nov.1950. 449.9 R312
- Includes discussion.
- 14620 HERKEN, H. Änderung von zellfunktionen im nervensystem durch hexachlorzyklohexan. (Untersuchungen am warmblüter.). *Arch. f. Expt. Path. u. Pharmacol.* 211:143-152. 1950. 448.8 Ar2
- 14621 HOSCH, L. Pflanzenschutzmittel auf der DLG-Schau in Frankfurt. *Hannoversche Land- u. Forst-wirt. Ztg.* 103:626-627. July 8,1950. 18 H194
- Insect and disease control.
- 14622 HOUT, A. VAN. Plus meurtier que le microbe! La vermine, ennemi No 1 de la basse-cour. Comment la combattre? *Cour. Hort.* 12:459-460. Aug.1950. 80 C834
- Bugs, lice, fleas, ticks, and mites.
- 14623 HOWARD, LADY. Poison sprays. *Health & Soil* 1950:5-7. Summer/Autumn 1950. 56.8 H34
- Insecticides.
- 14624 HUYSMANS, G. L. Los insectos acuaticos, enemigos de los peces. *Chacra* 20(239):60. Oct.1950. 9 C34
- 14625 ISHII, T. Nogyo konchugaku [Agricultural entomology]. *Tokyo, Yokendo*, 1950: 395 p. 423 Is3N
- 14626 IVY, E. E., and SCALES, A. L. Dieldrin for cotton insect control. *J. Econ. Ent.* 43:590-592. Oct.1950. 421 J822



- 14627 IVY, E. E., IGLINSKY, W., JR., and RAIN-WATER, C. F. Translocation of octamethyl pyrophosphoramidate by the cotton plant and toxicity of treated plants to cotton insects and a spider mite. *J. Econ. Ent.* 43:620-626. Oct. 1950. 421 J822  
Systemic insecticide effective against *Aphis gossypii* and spider mite (*Tetranychus opuntiae*?).
- 14628 JAMES, W. S. Insecticides take a systemic turn. *Natl. Co. Agent & Vo-Ag Teacher* 6(11):19,23,25. Nov. 1950. 275.28 N213
- 14629 JATKAR, S. K. K., and KULKARNI, S. B. Dipole moment and structure of hexachlorocyclohexanes. *Indian Chem. Soc. J.* 27:273-280. June 1950. 385 In27
- 14630 JENSEN, J. A., SUMERFORD, W. T., and FAY, R. W. Rosin as an insecticide adhesive. *Soap & Sanit. Chem.* 26(11):121,123. Nov. 1950. 307.8 So12  
Use in outdoor DDT residual sprays.
- 14631 KALSHOVEN, L. G. E., and VECCHT, J. VAN DER. De plagen van de cultuurgewassen in Indonesië [Pests of cultivated crops in Indonesia], v. 1. 'S-Gravenhage, Van Hoeve, 1950. 423 K122
- 14632 KRISHNAMURTI, B. The need for prevention and control of damage to food crops by insect pests. *Mysore Agr. Calendar* 1949/50:8-9. 1949. 34.2 M99
- 14633 KRYMSKIY NAUCHNO ISSLEDOVATEL'SKIY INSTITUT ZASHCHITY RASTENIY, SIMFEROPOL'. Vrediteli i bolezni ovoshchnykh kul'tur i mery bor'by s nimi [Pests and diseases of vegetable crops and measures for their control]. *Simferopol', Krymizdat*, 1950. 95 p. 464.4 K94
- 14634 LATHAM, E. Un nouvel insecticide. *Rev. Agr. de l'Afrique du Nord* 48:717-718. Sept. 29, 1950. 80 R326  
Organic phosphorous compound is systemic insecticide.
- 14635 LINDEN, L. VAN DER. How do we control the enemies of cauliflower culture? IV-V. (In Flemish.) *Tuinbouwberichten* 14:115-116,131-132. Aug. 15-Sept. 15, 1950. 80 T817  
Pests.
- 14636 LUTHER, H., and others. Die qualitative und quantitative analyse der isomeren hexachlorocyclohexane mit hilfe der Raman-spektroskopie. *Z. f. Naturf.* 5a:34-40. Jan. 1950. 474 Z3  
F. Lampe, J. Goubeau, and B. W. Rodewald, joint authors.
- 14637 LYNEN, C. R. Pulverización de las plantas cítricas. *Corp. Frutícola Argentina. Rev. Gremial* 16 (187):29. July 31, 1950. 83 C81  
Insect control.
- 14638 MCNEEL, T. E. The newer insecticides and rodenticides and their use. *Assoc. Food & Drug Off.* U. S. Q. B. 14:142-146. Oct. 1950. 389.9 As7Q
- 14639 MADSEN, H. F. Several insects were responsible for damage to prunes during 1950 season. *Sunsweet Standard* 34(6):8-10. Nov. 1950. 286.83 Su7  
Plum pests.
- 14640 MALLO, R. G. El hexaclorociclohexano. *Bolsa de Com., Rosario. Rev.* 38(928):9-12. Sept. 15, 1950. 287 R71
- 14641 MASSEE, A. M. Sprays for plums, pears, soft fruit. *Grower [London]* 34:947. Nov. 5, 1950. 286.83 M34  
For insect control.
- 14642 METCALF, R. L., and CARLSON, R. B. Systematic insecticides; control of plant feeding pests by poisoning plant juices. *Calif. Agr. [Calif. Sta.]* 4(11):3. 10. Nov. 1950. 100 C12Cag
- 14643 MILLER, R. E. Agricultural diluents. I-II. *Agr. Chem.* 5(11):43,45,47,78-79; (12):45-48,93-94. Ref. Nov.-Dec. 1950. 381 Ag8  
Insecticides, fungicides, and herbicides.
- 14644 MONCEAU, G. Les arsenicaux en arboriculture fruitière. *Réveil Agr.* 59:277. Sept. 15, 1950. 14 R322  
For insect pest control.
- 14645 NAKAGAWA, Y. Some common insecticidal and fungicidal spray and dust mixtures. *Hawaii. U. Agr. Ext. C.* 292,10 p. Oct. 1950. 275.29 H312Ac
- 14646 NEW SOUTH WALES DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Insect pests. *Agr. Gaz. N. S. Wales* 61:469-473. Sept. 1, 1950. 23 N472  
Collembola; Phyllophaga eucalypti; Anopium punctatum; and Aphididae.
- 14647 NEWTON, H. C. F. Leatherjackets and other ley pests. *Worcestershire Agr. Chron.* 18:275,277,279. 281. Aug./Oct. 1950. 10 W892  
Tipulid larvae, *Oscinella frit*, *Helophorus nubilus*, *Caradrina taraxaci*, *Phyllotreta* sp. (?); slugs.
- 14648 ORRELL, W. R. The safe handling of phosphorus insecticides with special reference to parathion. *Plant Protect. Overseas Rev.* 1(4):9-13. Sept. 1950. 464.8 P69
- 14649 OSER, M. Pest control and good housekeeping go hand in hand. (Condensed.) *U. S. Egg & Poultry Mag.* 56(12):12. Dec. 1950. 286.85 Eg3  
Includes use of DDT.
- 14650 PARENCIA, C. R., JR., and EWING, K. P. Comparison of early-season, late-season, and a combination of early-season plus late-season insecticide applications for cotton insect control. *J. Econ. Ent.* 43:596-598. Oct. 1950. 421 J822  
Thrips, overwintered *Anthonomus grandis*, etc.
- 14651 PARRY-JONES, E. Tobacco pest control research scheme; annual progress report. *Rhodesian Farmer* 4(7):23,25. Aug. 30, 1950. 24 R347
- 14652 PERU. MINISTERIO DE AGRICULTURA. DIRECCIÓN GENERAL DE AGRICULTURA. Insectos e insecticidas en la campaña algodonnara de 1949-1950. *Vida Agr. [Lima]* 27:635,637,639,641,643,645-648. Aug. 1950. 9.8 V66
- 14653 PLASSE, J. B. V. D. Treatment and disinfection of storage rooms. (In Dutch.) *Fruittelent* 40:642. Aug. 24, 1950. 86 N28  
For insect control.
- 14654 POMERANTSEV, D. V. Vrednye nasekomye i bor'ba s nimi v lesakh i lesnykh polosakh Ugo-Vostoka evropeiskoi chasti SSSR [Injurious insects and their control in forests and shelterbelts of the South-East of European U. S. S. R.]. Ed. 2., enl. *Moskva, Goslesbumizdat*, 1949. 210 p. 423 P772
- 14655 POMEROY, K. B. Bugs in the loblolly pine. *Amer. Forests* 56(12):9. Dec. 1950. 99.8 F762  
Insects that devour the seed.
- 14656 PONOMARENKO, D. A. Bor'ba s vrediteliami semennoi liut'serny [Control of pests of alfalfa for seed]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1949. 214 p. 423 P773
- 14657 PUCHKOV, V. G. Vrediteli liut'serny i bor'ba s nimi [Alfalfa pests and their control]. *Voronezh, Voronezhskoe Obl. Kn-vo*, 1950. 28 p. 423 P962
- 14658 RAO, D. S. Insect enemies of stored grains, and simple methods of controlling them. *Mysore Agr. Calendar* 1949/50:9-12. 1949. 34.2 M99
- 14659 RAUSCHER, H. Begasung in silos und kamern. *Müllerei* 3:617-618. Sept. 23, 1950. 298.8 M91  
For pest control.
- 14660 REBOUR, H. Traitements aériens en Algérie. Fruits et Primeurs de l'Afrique du Nord. *Éd. Marocaine* 20:309. Oct. 1950. 80 F9482
- 14661 RIBEIRO, J. H. C. Advantages of insecticidal dusts in the control of pests. (In Portuguese.) *Seleç. Agr.* 5(53):31-32. Sept. 1950. 9.2 Se4
- 14662 RICKARD, J. A. Saving stored grain. *Your Farm* 9(11):109-111. Nov. 1950. 6 Y8  
Prevention and control of insects.
- 14663 RIEMSCHEIDER, R. Über den nicht insektiziden halogenkohlenwasserstoff 1,1,4,4-tetra-(p-chlorphenyl)-2,2,3,3-tetrachlorbutan. *Anz. f. Schädlingsk.* 23:113-114. Aug. 1950. 421 An9
- 14664 RIPPER, W. E. Pest killers must not be man killers. *World Crops* 2:474-477. Nov. 1950. 281.8 W892  
Insecticides.
- 14665 RUPP, R. G. Winter pest control. *Farmer [St. Paul] Gen. Ed.* 68(21):1. Nov. 4, 1950. 6 F2211  
Chiefly insect pests.
- 14666 RUSSCHEN, J. Rapessed experiences in the North. II. (In Dutch.) *Plattelands-Post* 6(38):4. Sept. 30, 1950. 12 P69  
Insect control.
- 14667 RUSSO, G. Protection of crops and horticultural products. (In Italian.) *Ital. Agr.* 87:545-557. Sept. 1950. 16 It1  
Insect pests.
- 14668 RUTHERFORD, D. M. Beneficial insects at work. *Calif. Citrog.* 36:87-88. Dec. 1950. 80 C125
- 14669 SAINT-QUENTIN, M. Il faut lutter contre les parasites du colza. *Rustica* 23:832. Oct. 1, 1950. 14 R92  
Insect pests.
- 14670 SAUER, H. Pests which attack cotton plants. (In Portuguese.) *Soc. Rur. Brasil. Rev.* 30(357):44-45. Aug. 1950. 9.2 B733



- 14671 SCHENKER, P. Von der Überwinterung einiger landwirtschaftlich wichtiger Insekten. Schweiz. Landw. Monatsh. 28:314-320. Sept.20,1950. 17 Sch93
- 14672 SCHREAD, J. C. Modern insecticides protect turf grasses. Crops & Soils 3(2):18-19,22. Nov.1950. 6 W55
- 14673 SCHWARZ, F. Weitere Versuche über die Wirkung kontaktinsektizider Stoffe auf einige Kaltblüter. Arch. f. Expt. Path. u. Pharmakol. 211:121-131. Ref. 1950. 448.8 Ar2
- Toxicity of benzene hexachloride and tetraethyl pyrophosphate to fishes and frogs.
- 14674 SHEWELL-COOPER, W. E. Pests in the glasshouse; fumigation is the cure, but weed control the prevention. Field 196:467. Sept.16,1950. 10 F45
- 14675 SILVA, D. DA. How to prevent and control plant pests. (In Portuguese.) Gaz. do Agr. 2:192,194. Aug.1950. 24 G25
- 14676 SINCOCK, R. L. That's why peas are growing. Wash. Farmer 75:791,809-810. Nov.2,1950. 6 R151
- Control of weeds and insect pests of peas by North-western Washington Experiment Station.
- 14677 SMITH, F. F., and CLIFFORD, P. A. Translocation of parathion from foliage applications. J. Econ. Ent. 43:708-712. Oct.1950. 421 J822
- 14678 STAPLEY, J. H. Phosphorus insecticides and their uses. Plant Protect. Overseas Rev. 1(4):14-16. Sept.1950. 464.8 P69
- 14679 STEINHAUS, E. A. Diagnoses of insect diseases; microbial infections in insects diagnosed as part of the research in developing new ways of controlling crop pests. Calif. Agr. [Calif. Sta.] 4(11):11,15. Nov. 1950. 100 C12Cag
- 14680 TENNESSEE, DEPT. OF PUBLIC HEALTH. INDUSTRIAL HYGIENE SERV. Parathion poisoning a near fatality. Nashville,1949. 2 p. 423 T252
- 14681 THOMSON, A. G. Insect proofing for packaged foods. Canad. Food Indus. 21(11):37,39. Nov.1950. 286.83 C166
- 14682 THOSE grain-damaging culprits; effective control measures now available to industry. East. Feed Merchant 1(12):14-15. Dec.1950. 389.78 Ea7
- Insects.
- 14683 TORRES, J. DI P. Control household insects. (In Portuguese.) Seleç. Agr. 5(53):52-54. Sept.1950. 9.2 Se4
- 14684 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine import restrictions of the Dominion of Canada. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 514,rev.(sup.1),3 p. Sept.22,1950. 1.9 F73
- 14685 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Vapor-heat treatment approved as a condition for certification of pineapples under Hawaiian Fruit and Vegetable Quarantine No. 13. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 481,rev.,1 p. Dec.10,1950. 1.9 C73
- 14686 U. S. PRODUCTION AND MARKETING ADMIN. The outlook for cotton insecticides in 1951. Washington, 1950. 4 p. 1.956 C82Ou8
- U. S. Bureau of Entomology and Plant Quarantine cooperating.
- 14687 VAITSMAN, J. Official opinion on DDT. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:109. Apr./June 1950. 9.2 R325
- Toxicity.
- 14688 VALENZA, F. Control of soil insects. (In Italian.) B. dell'Agr. 84(12):1-2. June 16,1950. 16 B87
- 14689 VIADO, G. B. The new insecticides: aldrin, dieldrin, and allethrin. Agr. & Indus. Life 12(9):5,29. Sept.1950. 25 Ag8
- 14690 VITE, J. P. Eine neuartige forstschutzkartell. Anz. f. Schädlingsk. 23:121-122. Aug.1950. 421 An9
- Punched card method for indexing forest pests.
- 14691 WATKINS, T. C. Friends in the insect world. Cornell Plantations 7:3-6. Autumn 1950. 409.6 C812
- 14692 WELLMANN, G. Blutsaugende arthropoden als mechanische Überträger von tierseuchen. Berlin u. Münch. Tierärztl. Wchnschr. 1950:155-160. Ref. Aug. 1950. 41.8 B45
- 14693 WEST, T. F., and CAMPBELL, G. A. DDT and newer persistent insecticides. Ed. 2, rev. London, Chapman & Hall, 1950. 632 p. Ref. 423 W524
- Chapters on benzene hexachloride, chlordane, toxaphene, etc.
- 14694 WETTINGER. Auf den jungfraps achten! Bad. Landwirt. Wchnbl. 117:564. Aug.19,1950. 18 B142
- Pest control.
- 14695 YOUNG, M. T., and GAINES, R. C. Tests of insecticides to control boll weevil [Anthonomus grandis], cotton aphid [Aphis gossypii], and two-spotted mite [Tetranychus bimaculatus]. J. Econ. Ent. 43:727-729. Oct.1950. 421 J822
- 14696 ZÚNIGA, H. Previsión vrs. insectos (Recomendaciones para el control de insectos del algodón en la temporada 1950). San Salvador,1950. 13 p. 423 Z82

## APICULTURE AND APIS MELLIFERA

- 14697 AMBROSINI DALSASSO, J. Divulgación sobre apicultura. Rev. Agropecuaria del Perú 1(2):32,41-47. Apr./June 1950. 9.8 R322
- 14698 AMOS, J. M. Produce more crimson clover seed with honeybees. Tenn. Mkt. B. 22(11):6-7. Nov. 1950. 280.38 T25
- 14699 ANDERSON, E. J. College staff looks for villain in summer brood epidemic. Pa. Beekeeper 25(3): 3-4. Sept.1950. 424.8 P38
- 14700 ARTEMENKO, V. E. A comfortable migratory booth. (In Russian.) Pchelovodstvo 27:351-353. June 1950. 424.8 P295
- For beekeepers.
- 14701 ARTEMENKO, V. E., and SHUL'GA, I. G. Improved construction frame. (In Russian.) Pchelovodstvo 27:307-308. May 1950. 424.8 P295
- 14702 BARTLE, M. The British Bee-Keeper's Association examinations. VII-IX. Bee Craft 32:151,175, 199. Sept.-Nov.1950. 424.8 B3925
- 14703 BAUCKHAGE, F. Zuchtgrundsätze. Bienenwarte 3:264-265. Oct.25,1950. 424.8 B4722
- 14704 BEROGOVOI, P. M. Honey flow from Robinia pseudoacacia under Kanev Mountain conditions. (In Russian.) Pchelovodstvo 27:276-277. May 1950. 424.8 P295
- 14705 BERRY, W. A. C. The discovery of a non-swarming type of bee. Bee Craft 32:152. Sept.1950. 424.8 B3925
- 14706 BERTOLINI, V. DE. Bees and fruit spraying. (In Italian.) Agr. Trent. 4(7):2. Apr.1,1950. 16 Ag8263
- 14707 BESSONOV, K. K. We shall increase the yield of beeswax. (In Russian.) Pchelovodstvo 27:348-349. June 1950. 424.8 P295
- 14708 BJÖRN, L. J. The queen is caught. (In Swedish.) Bitidningen 49:375. Nov.1950. 424.8 B54
- 14709 BOBRAKOV, G. Beekeepers in the effort for the Red Banner. (In Russian.) Pchelovodstvo 27:357-359. June 1950. 424.8 P295
- Rehabilitation of apiculture on collective farms in Skorodnianski District.
- 14710 BOIKO, K. P. My method of swarm control and utilization of swarming condition of honeybees. (In Russian.) Pchelovodstvo 27:367. June 1950. 424.8 P295
- 14711 BONE, D. Some bee-keeping terms historically considered. Bee Craft 32:172-173. Oct.1950. 424.8 B3925
- 14712 BOSSÉ, L. Apiculture au Lac St-Jean. Abeille et l'Érable (ser.2)19:122-123. (Cont.) Oct.1950. 424.8 Ab32
- 14713 BOURDON. L'acariose des abeilles (mal de Wight). Monit. Agr. 3(132):4. Oct.22,1950. 14 M744
- 14714 BRINK, B. E. Pollination gains momentum. Amer. Bee J. 90:534-536. Dec.1950. 424.8 Am3
- 14715 BRINK, B. E. Your local promotion. Gleanings Bee Cult. 78:725-727. Dec.1950. 424.8 G47
- Pollination service.
- 14716 BRITTAN, O. Bee-keeping in the new Kingdom of the Jordan. Bee Craft 32:192-193. Nov.1950. 424.8 B3925
- 14717 BRÖKER, W. Die pollenanalyse. Imkerfreund 5:165-167. Sept.1950. 424.8 Im43
- 14718 BROKER, W. Schädlingsbekämpfung und bienenzucht; zwei rechnungen. Südwestdeut. Imker 2:272. Sept.1950. 424.8 Su25
- 14719 BUDEL, A. Neue gesichtspunkte in der imker-technik. Südwestdeut. Imker 2:265-267. Sept.1950. 424.8 Su25
- 14720 BUDEL, A. Die vorläufigen zuckerzahlen. Südwestdeut. Imker 2:296-298. Oct.1950. 424.8 Su25



- 14721 BURKOV, N. G. Quiet replacement of queens. (In Russian.) Pchelovodstvo 27:308. May 1950. 424.8 P295
- 14722 BURLIAEV, A. We shall restore our prewar apiculture. (In Russian.) Pchelovodstvo 27:360-363. June 1950. 424.8 P295  
Collective farms of Starodubskii District.
- 14723 CAMPBELL, D. J. Frames. Bee Craft 32:201. Nov. 1950. 424.8 B3925
- 14724 CHIGIN, P. Again on two-story management of honeybees. (In Russian.) Pchelovodstvo 27:298-299. May 1950. 424.8 P295
- 14725 CLOUT, G. A. The treatment of acarine disease with sulphur fumes. Bee Craft 32:150. Sept. 1950. 424.8 B3925
- 14726 COLLEY, O. A. 100 percent wintering for ten years in Mass. Gleanings Bee Cult. 78:721-724. Dec. 1950. 424.8 G47
- 14727 COMERY, W. Frames and combs. Welsh Bee J. 5:162-165. Nov. 1950. 424.8 W462
- 14728 COOPER, A. E. A new queen cage. Bee Craft 32:155. Sept. 1950. 424.8 B3925
- 14729 COUTINHO, L. P. Unexplored riches of Mozambique: honey and wax. (In Portuguese.) Gaz. do Agr. 2:191-192. Aug. 1950. 24 G25
- 14730 CRANE, E. E. The effect of spring feeding on the development of honeybee colonies. Bee World 31:65-72. Sept. 1950. 424.8 B399
- 14731 DAVIES, C. H. The two colonies. Welsh Bee J. 5:172-173. Nov. 1950. 424.8 W462  
Swarming.
- 14732 DIETZ, G. En suivant un essaim. Rev. Franç. d'Apic. (ser.2)58:428-431. Oct. 1950. 424.8 R329
- 14733 DIXON, G. F. Novices' experiment at migratory bee-keeping. Bee Craft 32:179. Oct. 1950. 424.8 B3925
- 14734 DOBROVSKY, T. M. Number of wing hooks varies by species. Bees 4:90. Aug./Sept. 1950. 424.8 S083  
Apis spp.
- 14735 DREHER, K. Bei den imkern Luxemburgs. Imkerfreund 5:204-206. Nov. 1950. 424.8 Im43
- 14736 DREHER, K. Höhere leistungen durch zucht. Südwestdeut. Imker 2:260-263. Sept. 1950. 424.8 Su25
- 14737 DUPLAT, H. L'apiculture et ses possibilités en Nouvelle-Calédonie. Rev. Agr. de la Nouvelle-Calédonie (n.s.)1(7/8):5-7. July/Aug. 1950. 25 R322
- 14738 EAST, L. M. Honey bees and their hosts. West. Canada Beekeeper 13(9):3-4. Sept. 1950. 424.8 W525
- 14739 EAST, L. M. A new ideal. West. Canada Beekeeper 13(11):10-11. Nov. 1950. 424.8 W525  
Queen supersedure and breeding.
- 14740 EPPINGHOVEN, G. FREIHERR VON. Erlebnis mit nashörnern und bienen. Bienenwarte 3:256-257. Oct. 10, 1950. 424.8 B4722  
Observations on the behavior of the African honeybees.
- 14741 FEDOTOV, F. N. On measures against bee robbing. (In Russian.) Pchelovodstvo 27:371-372. June 1950. 424.8 P295
- 14742 FELSING, E. Ist die schichtenbeute wanderfähig? Bienenwarte 3:267-268. Oct. 25, 1950. 424.8 B4722
- 14743 FELSING, E. Winterhagen meldet—unbegattete königinnen—milbenübertragung kaum möglich. Bienenwarte 3:226-228. Sept. 10, 1950. 424.8 B4722
- 14744 FISCHER, F. Die trachtfaktoren in ihrer bedeutung für die bienenzucht. Südwestdeut. Imker 2:299. Oct. 1950. 424.8 Su25
- 14745 GALLIN, A. Elevage economique simultané de 4 reines. Rev. Franç. d'Apic. (ser.2)56/57:403. Aug./Sept. 1950. 424.8 R329
- 14746 GEIGER, J. E. Average yield about like 1949. West. Canada Beekeeper 13(9):9-10. Sept. 1950. 424.8 W525
- 14747 GILES, J. S. Bee-keeping notes. Worcester-shire Agr. Chron. 18:333,335. Aug./Oct. 1950. 10 W892
- 14748 GODDARD, R. Increasing the number of hives in an apiary. New Zeal. J. Agr. 81:269. Sept. 1950. 23 N48J
- 14749 GOETZE, G. Leitfaden der bienenzucht. Berlin, Parey, 1950. 132 p. 424 G71L
- 14750 GONTARSKI, H. Untersuchungen über den ernährungshaushalt der winterbien. Südwestdeut. Imker 2:263-264. Sept. 1950. 424.8 Su25
- 14751 GOODING, S. Bee behaviour. Welsh Bee J. 5:148. Oct. 1950. 424.8 W462
- 14752 GOODING, S. Hearing in bees. (Sum.) Welsh Bee J. 5:166-168. Nov. 1950. 424.8 W462
- 14753 GOUGET, C. W. Our mutual friends the honey bees. Amer. Bee J. 90:528-529. Dec. 1950. 424.8 Am3  
Pollinators.
- 14754 GRAVENOR, W. The bees power of location. So. African Bee J. 25(4):18. Sept./Oct. 1950. 424.8 S082
- 14755 GUSTAFSSON, T. Spraying with hormone and DDT preparations. (In Swedish.) Bitidningen 49:371-373. Nov. 1950. 424.8 B54  
Bee poisoning through treatment of honey plants.
- 14756 GYGLI, K. Bienenpflege in gebieten mit fruchttracht und waldtracht. Schweiz. Bienen Ztg. 73:460-466. Oct. 1950. 424.8 Sch9
- 14757 HANLAN, R. M. Alberta production up sharply. West. Canada Beekeeper 13(12):6-8. Dec. 1950. 424.8 W525
- 14758 HANSSON, A. Apiculture and plant culture. (In Swedish.) Bitidningen 49:337-342. Oct. 1950. 424.8 B54  
Pollination and poisoning of bees from economic poisons.
- 14759 HARBERD, H. The wild bee. Welsh Bee J. 5:170-171. Nov. 1950. 424.8 W462
- 14760 HEATHER, P. J. Beekeeping in Mayo. Irish Beekeeper 4:186. Oct. 1950. 424.8 Ir42
- 14761 HERGUETA NAVAS, L. Apicultura práctica española. Ed. 2. Madrid, Instituto Editorial Reus, 1950. 540 p. 424 H423
- 14762 HEROLD, E. Honig zur wundbehandlung. Imkerfreund 5:169-170. Sept. 1950. 424.8 Im43
- 14763 HILGER, R. Warm verpacken! Luxemburg. Bienen-Ztg. 65:155. Oct. 1950. 424.8 L97
- 14764 HUNKELER, M. Unser standpunkt in der rassenfrage. Schweiz. Bienen Ztg. 73:452-454. Oct. 1950. 424.8 Sch9
- 14765 INSTITUT PCHELOVODSTVA. Utilize honeybees for pollination of farm crops. (In Russian.) Pchelovodstvo 27:259-264. May 1950. 424.8 P295
- 14766 JACQUINOT, R. Quelques observations sur l'apimyse. Rev. Franç. d'Apic. (ser.2)58:434. Oct. 1950. 424.8 R329  
Due to Senotainia.
- 14767 JOHANNET, M. Un exemple d'apiculture pastorale. France. Min. de l'Agr. B. Tech. d'Inform. 52:559-561. Sept. 1950. 14 F844B
- 14768 JOHNSON, L. H. Beekeeping in Taranaki. New Zeal. J. Agr. 81:205-208. Sept. 1950. 23 N48J
- 14769 KAESER, D. Augenblickliche stand der bienenkrankheiten in Südbaden. Südwestdeut. Imker 2:294-295. Oct. 1950. 424.8 Su25
- 14770 KAMSHILOV, N. A. For further advancement of beekeeping. (In Russian.) Pchelovodstvo 27:323-325. June 1950. 424.8 P295
- 14771 KEARSLEY, N. J. Visiting the beeman's paradise in Zululand. So. African Bee J. 25(4):19. Sept./Oct. 1950. 424.8 S082
- 14772 KJELLEN, C. Theory and practice in apiculture. (In Swedish.) Bitidningen 49:378-379. Nov. 1950. 424.8 B54
- 14773 KJELLGREN, C. Easier extraction. (In Swedish.) Bitidningen 49:374. Nov. 1950. 424.8 B54  
Chiefly on frames.
- 14774 KLOS, Z. Züchten heisst sichten - aber wie. Bienenwarte 3:204-205. Aug. 10, 1950. 424.8 B4722
- 14775 KÖHLER, Der deutsche imkertag. Südwestdeut. Imker 2:290,292-293. Oct. 1950. 424.8 Su25
- 14776 KORDAKOVA, Z. M. Honeybees pollinate onion seed stalks. (In Russian.) Pchelovodstvo 27:337-339. June 1950. 424.8 P295
- 14777 KOSTOGLODOV, V. F. Utilization of honey flow with two queens. (In Russian.) Pchelovodstvo 27:368-369. June 1950. 424.8 P295
- 14778 KRASNOPEEV, M. Z. Mechanization of frar waxing. (In Russian.) Pchleovodstvo 27:296-298. May 1950. 424.8 P295



- 14779 KÜHNER, Zucker; notdürftiger ersatz oder wertvolle bienennahrung. *Bienenwarte* 3:206-207. Aug.10,1950. 424.8 B4722
- 14780 KUTUZOV, I. To increase the collection of wax at apiaries. (In Russian.) *Pchelovodstvo* 27:368. June 1950. 424.8 P295
- 14781 LABION, Eine beobachtung bei der winterfütterung. *Südwestdeut. Imker* 2:271. Sept.1950. 424.8 Su25
- 14782 LATHAM, A. Air conditioning in the beehive. *Bees* 4:100,107. Oct.1950. 424.8 So83
- 14783 LATHAM, A. Pollinizers. *Gleanings Bee Cult.* 78:731,767. Dec.1950. 424.8 G47
- 14784 LENOX, D. Re-queening. *Welsh Bee J.* 5:162. Nov.1950. 424.8 W462
- 14785 LIENHART, R. Nouvelles recherches sur la reine des abeilles (*Apis mellifica*). *Soc. de Biol. Compt. Rend.* 144:1094-1096. Aug.1950. 442.9 P21
- 14786 LOUVEAUX, J. Observations sur le déterminisme de la récolte du pollen par les colonies d'abeilles (*Apis mellifica* L.). *Paris. Acad. des Sci. Compt. Rend.* 231:921-922. Oct.30,1950. 505 P21
- 14787 LOVELL, H. B. The mechanics of pollination. 1. Role of natural agencies. *Bees* 4:102-104,107. Oct. 1950. 424.8 So83  
Includes pollination by *Apis mellifera*.
- 14788 LUNDER, R. Increased wax production through the aid of drone foundation. (In Norwegian.) *Birøkteren* 66:151-152. Oct.1950. 424.8 B53
- 14789 LUTÍŠO, V. P. Sunflower pollination by honeybees. (In Russian.) *Pchelovodstvo* 27:332-336. June 1950. 424.8 P295
- 14790 LUTZ, J. Die milbenseuche der bienen und ihre bekämpfung im kanton St. Gallen. *Schweiz. Bienen Ztg.* 73:454-457. Oct.1950. 424.8 Sch9
- 14791 MACWHIRTER, G. T. Better bees. *Bee Craft* 32:200. Nov.1950. 424.8 B3925
- 14792 MAIER, K. Verspätete einwinterung. *Südwestdeut. Imker* 2:284-285. Oct.1950. 424.8 Su25
- 14793 MEIER, J. Der imkertischler und die bienenbeute. *Imkerfreund* 5:210,213-214. Nov.1950. 424.8 Im43
- 14794 MEL'NIKOV, V. I. Obligations were fulfilled. (In Russian.) *Pchelovodstvo* 27:278-280. May 1950. 424.8 P295  
Rehabilitation of apiculture on Krasnyĭ Partizan Collective Farm in Kursk Region.
- 14795 MEXICO. DIRECCIÓN GENERAL DE ENSEÑANZA AGRÍCOLA. Industrias agropecuarias. I-II. Mexico,1949. 93 p. (Mexico. Secretaría de Educación Pública. Biblioteca Enciclopedia Popular, 204) 40 M5721  
I. Cartilla de apiculture, p. 9-53; II. Cría y explotación del conejo, p. 55-93.
- 14796 MIELLET, R. Après la récolte. *Rev. Franç. d'Apic. (ser.2)* 58:423-424. Oct.1950. 424.8 R329  
Colony management.
- 14797 MIELLET, R. Essaims - récolte et fièvre d'essaimage. *Rev. Franç. d'Apic. (ser.2)* 56/57:401. Aug./Sept.1950. 424.8 R329
- 14798 MORRIS, E. W. T. Midland survey. *Welsh Bee J.* 5:151-155. Oct.1950. 424.8 W462  
Apiculture.
- 14799 MUZZATI, G. La géométrie des abeilles. *Rev. Franç. d'Apic. (ser.2)* 56/57:404-406. Aug./Sept.1950. 424.8 R329  
Structure of honeycombs.
- 14800 MUZZATI, G. Un peu d'histoire de l'apiculture; les opinions de l'abbé Stefano della Rocca. *Rev. Franç. d'Apic. (ser.2)* 58:432-433. Oct.1950. 424.8 R329
- 14801 NIKITINA, A. I. Honeybees increase the yields of turnip and rape seeds. (In Russian.) *Pchelovodstvo* 27:271-274. May 1950. 424.8 P295
- 14802 ORLOV, M. F. Best utilization of machines in beeswax shops. (In Russian.) *Pchelovodstvo* 27:363-366. June 1950. 424.8 P295
- 14803 ORTEGA SADA, J. Selección de abejas reinas. Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg. 7-50 H,8 p. Apr.1950. 15 H68
- 14804 PANFILETS, V. K. On limiting the brood during the period of the main honey flow. (In Russian.) *Pchelovodstvo* 27:375. June 1950. 424.8 P295
- 14805 PASCHKE, M. The building frame and its uses. *Bee World* 31:81-82. Nov.1950. 424.8 B399
- 14806 PESCHETZ, H. Züchten wir richtig? *Luxemburg. Bienen-Ztg.* 65:159-162. (To be cont.) Oct.1950. 424.8 L97
- 14807 PESCIO, M. S. Método argentino para evitar la enjambrazón de primavera. *Chacra* 20(239):58-59. Oct.1950. 9 C34
- 14808 PURSEY, M. Better bees. *Bee Craft* 32:155. Sept.1950. 424.8 B3925
- 14809 PURSEY, M. Know your bees. VII-IX. *Bee Craft* 32:153,174,195. Sept.-Nov.1950. 424.8 B3925
- 14810 REA, G. H. Fall requeening hints. *Bees* 4:78. July 1950. 424.8 So83
- 14811 REMEZ, D. N., and IAROSLAVTSEV, K. Achievements of a Red Banner district. (In Russian.) *Pchelovodstvo* 27:354-357. June 1950. 424.8 P295  
Apiculture in Soltonskiĭ District in Altai Mountains.
- 14812 RHEINHEIMER, O. Ablegerbildung im standbetrieb. *Imkerfreund* 5:208-209. Nov.1950. 424.8 Im43
- 14813 ROSWALL, G. Norwegian apiculture astonished us; glimpses from the study trip of the Stockholm Society to Norway. (In Swedish.) *Blåtungen* 49:367-371. Nov.1950. 424.8 B54
- 14814 SÄGVALL, K. Breeding bee queens. (In Swedish.) *Trädgårdstidningen* 22(10):24,29. Oct.1950. 80 T67
- 14815 SCHALLER, F. Etude morphologique du complexe endocrine rétro-cérébral de la larve d'abeille (*Apis mellifica* L.). *Soc. de Biol. Compt. Rend.* 144:1097-1100. Aug.1950. 442.9 P21
- 14816 SCHMIDT, H. W. Was ist es um den bienenzell-hormon-vitamin-komplex? *Imkerfreund* 5:175. Sept.1950. 424.8 Im43
- 14817 SCHOTMAN, J. W. Letters from the apiary. II-III. (In Dutch.) *Maandschr. v. Bijenteelt* 52:154-155, 170-171. Oct.-Nov.1950. 424.9 V58  
Equipment.
- 14818 SCHUBERT, A. Ein beispiel natürlicher bienenpflege; mein holzstrohständer ein volksbienestock. *Bienenwarte* 3:203-204. Aug.10,1950. 424.8 B4722
- 14819 SECHRIST, E. L. Notes on the queen cells of the giant bee [*Apis dorsata*]. *Bees* 4:76-77. July 1950. 424.8 So83
- 14820 SECHRIST, E. L. Supplemental heat and the 'new beekeeping'. *Bees* 4:88-89. Aug./Sept.1950. 424.8 So83
- 14821 SEGER, G. Method against robbers. (In Swedish.) *Bitidningen* 49:374-375. Nov.1950. 424.8 B54
- 14822 SEMENENKO, F. Replacement and superseding of queens on combs. (In Russian.) *Pchelovodstvo* 27:372-373. June 1950. 424.8 P295
- 14823 SEMPLE, G. A. Some impressions of South African beekeeping. *So. African Bee J.* 25(4):13,15-17. Sept./Oct.1950. 424.8 So82
- 14824 SHAW, F. R., and BAILEY, J. S. Observations on the effect of methoxychlor on bees. *Amer. Bee J.* 90:536-537. Dec.1950. 424.8 Am3
- 14825 SCHERBIN, P. S. On the proper utilization of the honey flow. (In Russian.) *Pchelovodstvo* 27:344-346. June 1950. 424.8 P295
- 14826 SHIPPEN, J. W. The power of the mighty bee. *So. African Bee J.* 25(4):23-24. Sept./Oct.1950. 424.8 So82
- 14827 SHULL, J. H. An observation beehive. *Gleanings Bee Cult.* 78:728-730. Dec.1950. 424.8 G47
- 14828 SJÖGREN, S. Queen traps. (In Swedish.) *Bitidningen* 49:383. Nov.1950. 424.8 B54
- 14829 SNYDER, P. G. Beekeeping genetics. *Gleanings Bee Cult.* 78:759. Dec.1950. 424.8 G47
- 14830 SOLANO, R. Ampliación del apiario. *Cult. Mod.* 33:336. Sept.1950. 15 C89
- 14831 STOLIARENKOV, N. D. From the practices of Smolensk beekeepers. (In Russian.) *Pchelovodstvo* 27:350. June 1950. 424.8 P295
- 14832 STRICKER, M. Are you missing something? *West. Canada Beekeeper* 13(11):2. Nov.1950. 424.8 W525  
Colony management.
- 14833 STRÖMBÄCK, P. On bee stings. (In Swedish.) *Bitidningen* 49:343-344. Oct.1950. 424.8 B54
- 14834 SUMPF, K. C. Auf dem wege zur betriebsform der zukunft. *Bienenwarte* 3:264. Oct.25,1950. 424.8 B4722



- 14835 SUPYKIN, M. I. Place honeybees in protected places. (In Russian.) Pchelovodstvo 27:308-309. May 1950. 424.8 P295
- 14836 TASKIN, K. E. Clover pollination and training of honeybees. (In Russian.) Pchelovodstvo 27:331-332. June 1950. 424.8 P295
- 14837 THIEL, V. 65 degrees below zero and bees are still alive. Gleanings Bee Cult. 78:758-759. Dec. 1950. 424.8 G47
- 14838 THIERING, H. Vereinigung im Herbst. Imkerfreund 5:163-164. Sept. 1950. 424.8 Im43 Colony management.
- 14839 TILSTERMAN, F. Is propaganda for apiculture still possible? (In Dutch.) Maandschr. v. Bijenteelt 52: 151. Oct. 1950. 424.9 V58
- 14840 TONSLEY, C. C. Making use of nuclei. Scot. Beekeeper 26:217. Nov. 1950. 424.8 Sco8
- 14841 TOWNER, E. B. A bee master of Oberammergau. Bee Craft 32:148. Sept. 1950. 424.8 B3925
- 14842 TSVETKOV, I. P. Simplified method for accelerated increase of honeybee colonies. (In Russian.) Pchelovodstvo 27:287-292. May 1950. 424.8 P295
- 14843 TSVETKOVA, K. P. Methods for increasing honeybee colonies. (In Russian.) Pchelovodstvo 27:292-295. May 1950. 424.8 P295
- 14844 TSVETKOVA, K. P. On the migration of leading apiaries to the honey flow. (In Russian.) Pchelovodstvo 27:346-348. June 1950. 424.8 P295
- 14845 TURNBULL, W. H. When to extract honey. West. Canada Beekeeper 13(9):9. Sept. 1950. 424.8 W525
- 14846 VELDZICHT, J. VAN. From the past; apiarist tricks. (In Dutch.) Maandschr. v. Bijenteelt 52:150. Oct. 1950. 424.9 V58
- 14847 VINOGRADOVA, T. V. Acceleration of honeybee development and increase in its fertility. (In Russian.) Agrobiologiya 1950(4):79-86. July/Aug. 1950. 20 Ag822
- 14848 WADEY, H. J. When hives are hired for pollination. Fruit & Prod. 5(3):5-6. July 1950. 80 F9427
- 14849 WAHLIN, B. The bees and hormone derivatives. (In Swedish.) Bitidningen 49:365-367. Nov. 1950. 424.8 B54
- Toxicity of herbicides.
- 14850 WAUGH, J. G. Robbery and also robbing. (Condensed.) Irish Beekeeper 4:189-190. Oct. 1950. 424.8 Ir42
- 14851 WIDEN, V. Feeding of bees. (In Swedish.) Bitidningen 49:356. Oct. 1950. 424.8 B54
- 14852 WOHLGEMUTH, E. Die schwarmbienenzucht in der Lüneburger Heide. Südwestdeut. Imker 2:256-259. Sept. 1950. 424.8 Su25
- 14853 WRIGHT, P. H. November in the bee yard. West. Canada Beekeeper 13(11):6. Nov. 1950. 424.8 W525
- 14854 ZAYCHKOV, N. E. On flying up of queens. (In Russian.) Pchelovodstvo 27:306-307. May 1950. 424.8 P295
- 14855 ZANDER, E. Letzte pollenanalytische studien. I. Versuch einer pollenanalyse von honigproben der in Indien einheimischen honigbienenarten (*Apis indica*, *floreana* und *dorsata*). Z. f. Bienenforsch. 1:1-7. July 1950. 424.8 Z3
- 14856 ZHURAVLEV, A. A. Do honeybees pollinate alfalfa? (In Russian.) Pchelovodstvo 27:326-331. June 1950. 424.8 P295
- 14857 ZHURAVLEV, A. A. Training of honeybees. [to visit] alfalfa. (In Russian.) Pchelovodstvo 27:369. June 1950. 424.8 P295
- ARACHNIDA, MYRIAPODA, ETC.
- 14858 ATTEMS, C. Myriopoden von der Gleinalpe und zwei neue Attemsiidae. Naturw. Ver. f. Steiermark. Mitt. 77/78:5-10. 1949. 510 G79 Lithobius.
- 14859 CAUSEY, N. B. A new genus [Castanaria] and species of diplopod (family Xystodesmidae). Nat. Hist. Misc. 73,3 p. Nov. 24, 1950. 500 C43Na
- 14860 CLOUDSLEY-THOMPSON, J. L. False-scorpions [Chelonethida]. Nat. Lover 7:372-373. Sept. 1950. 410 N218
- In Britain.
- 14861 CLOUDSLEY-THOMPSON, J. L. Notes on Arachnida. 14. Arachnids and myriapods from Flitwick, Beds. Ent. Mon. Mag. 86:319. Nov. 1950. 421 En86
- 14862 DUNN, R. A. A plea for spiders. Victorian Nat. 87:89-90. Aug. 1950. 410 V66
- 14863 EATON, J. K., and DAVIS, R. G. The toxicity of certain synthetic organic compounds to the fruit-tree red-spider mite [Paratetranychus pilosus]. Ann. Appl. Biol. 37:471-489. Ref. Sept. 1950. 442.8 An72
- 14864 FAUTREZ, J. La distribution de l'acide ribonuclease au cours du grand accroissement de l'oocyte chez *Pholcus phalangioides* (Fuessli). Soc. de Biol. Compt. Rend. 144:1129-1130. Aug. 1950. 442.9 P21
- 14865 FOX, I. The brown dog tick [Rhipicephalus sanguineus] on rats in Puerto Rico. J. Econ. Ent. 43:722-723. Oct. 1950. 421 J822
- 14866 GAINES, J. C., and others. Toxicity of various sulphur and phosphorus compounds applied as sprays on spider mites [Tetranychus opuntiae] and aphids [Aphis gossypii]. J. Econ. Ent. 43:614-619. Oct. 1950. 421 J822
- E. E. Ivy, H. A. Dean, and A. L. Scales, joint authors.
- 14867 GOUCK, H. K., and FLUNO, J. A. Field tests on control of American dog tick [Dermacentor variabilis] in Massachusetts. J. Econ. Ent. 43:698-701. Oct. 1950. 421 J822
- 14868 GRIFFITHS, J. T., and THOMPSON, W. L. Progress report on some of the aspects of purple mite [Paratetranychus citri] control in Florida. Citrus Indus. 31(11):5-7. Nov. 1950. 80 C49
- 14869 HANSON, H. Distribution and populations of millipeds in the Great Smoky Mountains National Park. (Abs.) Ecol. Soc. Amer. B. 31:46. Sept. 1950. 410.9 Ec7
- 14870 JEPSON, L. R., JESSER, M. J., and COMPTON, J. O. Field studies in control of mites injurious to citrus. Calif. Citrog. 36:50,68-70,72. Dec. 1950. 80 C125
- 14871 KASTNER, A. Über den farbsinn der spinnen. Naturwiss. Rundschau 3:357-360. Aug. 1950. 474 N216
- 14872 KEEGAN, H. L., BLAUW, A. S., and ANDERSON, R. I. Latrodectus geometricus Koch on Luzon. Amer. J. Trop. Med. 30:901-907. Ref. Nov. 1950. 448.8 Am33
- 14873 MAGALHÃES, O. DE. Prophylaxis of neotropical exanthematic typhus in Brazil. Inst. Oswaldo Cruz Mem. (1949)47:261-271. 1950. 448.9 In74
- Includes the control of tick vectors (*Amblyomma* spp.) and animals carrying the virus.
- 14874 MATTHES, D. Die klemenfauna unserer landasseln. Zool. Jahrb., Abt. f. System., Geog. u. Biol. Tiere 78:573-640. Ref. 1950. 410 Z751S
- 14875 MORENO, J. J. Garrapata de los animales. Res. 18:25306. Sept. 20, 1950. 286.85 R31
- On sheep.
- 14876 NEISWANDER, C. R., RODRIGUEZ, J. G., and NEISWANDER, R. B. Natural and induced variations in two-spotted spider mite [Tetranychus bimaculatus] populations. J. Econ. Ent. 43:633-636. Oct. 1950. 421 J822
- 14877 PIONTKOVSKAIA, S. P. Effect of agricultural measures on *Hyalomma marginatum marginatum* Koch. population in the districts of shelterbelt plantations. (In Russian.) Zool. Zhur. 29:297-300. Ref. July/Aug. 1950. 410 R92
- 14878 SAMAT, M. La vermine des poulailers. Réveil Agr. 59:281-282. Sept. 15, 1950. 14 R322
- Argas.
- 14879 SCHENK, P. J. Spider; red spider or spinning plant mites. (In Dutch.) Groenten en Fruit 6:147. Aug. 31, 1950. 80 G89
- 14880 SMIT, B. A tough fellow; control of the red spider. (In Afrikaans.) Landbouweekblad 32(1633):20. Nov. 1, 1950. 24 L232
- Parathion for Tetranychus.
- 14881 SMITH, F. F., FULLON, R. A., and HALL, S. A. Toxicity of organic phosphates to the two-spotted spider mite [Tetranychus bimaculatus] and the foxglove aphid [Myzus convolvuli]. J. Econ. Ent. 43:627-632. Oct. 1950. 421 J822
- 14882 STIDSTON, S. T. Parasites on the antennae of a male *Tholera popularis* Fab. Entomologist 83:72. Mar. 1950. 421 En8
- Larvae of the mite *Erythraeus phalangii*.
- 14883 TOMLINSON, W. E., JR. Summer oil sprays to control blueberry bud mite [Aceria vaccinii]. J. Econ. Ent. 43:727. Oct. 1950. 421 J822
- 14884 TRÄGÄRDH, I. Description of a new species of *Heterocheilus* Lombardini from Africa, with notes on the classification of the *Pseudocheyletidae*. Ent. Tidskr. 71:104-110. 1950. 421 En891



- 14995 UNDERHILL, G. W. Timing early sprays for summer control of European red mite [*Paratetranychus pilosus*]. J. Econ. Ent. 43:637-639. Oct.1950. 421 J822
- 14996 VERMEIL, C., and PUECH, J. Dermacentor reticulatus Fabr. parasite de l'homme. Ann. de Parasitol. Humaine et Compar. 25:354-1950. 436.8 An7
- 14997 VIETS, K. O. Beitrag zur kenntnis von Eylais extendens (O. F. Müller 1776) (Hydrachnellae, Acari). Mus. f. Nat.- Völker- u. Handelsk. Veröffentl. Reihe A 1: 41-105. 1949. 509 B752
- 14998 WILLMANN, C. Über eine eigenartige milben-fauna an faulenden kartoffeln. Mus. f. Nat.- Völker- u. Handelsk. Veröffentl. Reihe A 1:136-142. 1949. 509 B752
- Species of Saprogramasus n.g., Uroseius, Saprolaelaps and Nothrolaspsis.
- COLEOPTERA
- 14999 ANTIPOVA, L. K. Resistance of potatoes to Epilachna [vigintioctomaculata]. (In Russian.) Sad i Ogorod 1950(8):34-36. Aug.1950. 80 Sa13
- 14990 APT, A. C. Method of rearing the flat grain beetle [Laemophloeus pusillus] and the grain mite [Acarus siro]. J. Econ. Ent. 43:735. Oct.1950. 421 J822
- 14991 BLACKITH, R. E. Bioassay systems for the pyrethrins. III. Application of the twin cross-over design to crawling insect assays. Ann. Appl. Biol. 37:508-515. Ref. Sept.1950. 442.8 An72
- Tests with Sitophilus granarius.
- 14992 BRINCK, P. Coleoptera of Tristan da Cunha. Norwegian Sci. Exped. Tristan da Cunha 1937-1938, Results 17,121 p. 1948. 409 N83
- Includes new species and forms in Bidessonotus, Lancetes, Senilites n.g., Ptinella, Oxytelus, Pentarthrum, Inaccodes n.g., Gunodes n.g., and Tristanodes n.g.; also Palaechtodes n.g.
- 14993 BROUCI, A. Les bases biologiques de la contrôle du doryphore [Leptinotarsa decemlineata], études du Zatec, I. 1949. (In Czech.) Ochrana Rostlin 23:136-158. 1950. 464.8 Oc3
- French summary.
- 14994 BROWN, W. J. The extralimital distribution of some species of Coleoptera. Canad. Ent. 82:197-205. Ref. Oct.1950. 421 C16
- 14995 BUCHHOLZ, C. Gegenwärtiger stand und aus-sichten der borkenkäferbekämpfung. Deut. Landwirt. Gesell. Arb. (n.s.):5:259-264. 1949. 18 D48
- 14996 BUGNICOURT, F. Le "scolyte du grain de café" [Stephanoderes hampei] en Nouvelle-Calédonie. Rev. Agr. de la Nouvelle-Calédonie (n.s.):1:3-4. Jan./Feb. 1950. 25 R322
- 14997 CRAMER, H. H., and RÖHRIG, E. Noch immer eichenkärfergefahr [Platypus sp.]. Holz-Zentbl. 76: 987. July 29,1950. 99.81 H742
- 14998 CROWSON, R. A. The classification of the families of British Coleoptera: superfamily 4: Scarabaeoi-dea [and 5: Dascilloidea]. Ent. Mon. Mag. 86:327-336. Nov.1950. 421 En86
- 14999 DAS, B. M., and SEN, S. N. Studies on hide beetles. I. Tanner 5(5):22-23. Oct.1950. 303.8 T15
- Dermestes vulpinus and Attageus sp.
- 14900 DAVIES, W. Lucerne and the Sitona weevil [Sitona lineata]. Gt. Brit. Min. Agr. Agriculture 57:308-309. Oct.1950. 10 G79J
- 14901 EASTON, A. M. Some amendments of nomen-clature in the genus Meligethes Stephens (Col., Nitiduli-dae). Ent. Mon. Mag. 86:308-309. Oct.1950. 421 En86
- 14902 EFIMOV, A. L., and IAKOVLEV, B. V. Kolo-radskii kartofel'nyi zhuk [Colorado potato beetle]. Mo-skva, Molodaja Gvardiia, 1950. 47 p. 427 Ef6Kz
- 14903 FLEMING, W. E., and HAWLEY, I. M. A large-scale test with DDT to control the Japanese beetle. J. Econ. Ent. 43:586-590. Oct.1950. 421 J822
- 14904 FLUCK, P. H. The case for starlings. Farm Q. 5(4):46-47,139-142. Winter 1951. 6 F22995
- Their help in controlling the Japanese beetle.
- 14905 FRIGERIO, J. C. El "bicho moro" [Epicauta adspersa] plaga de la papa. Bolsa de Com., Rosario. Rev. 38(930):7-8. Oct.15,1950. 287 R71
- 14906 FUCHS, Zwischenbilanz der borkenkäferbe-kämpfung. Deut. Landwirt. Gesell. Arb. (n.s.):5:124-154. 1949. 18 D48
- 14907 GAINES, J. C., and DEAN, H. A. Effect of climatic factors on the toxicity of certain insecticides. J. Econ. Ent. 43:602-605. Oct.1950. 421 J822
- Toxaphene, benzene hexachloride, and DDT; tested with Anthonomus grandis and Alabama argillacea.
- 14908 GASSER, R., and WIESMANN, R. Contribution à l'étude écologique et à la destruction du hanneton (Melolontha melolontha L.); observations et essais ef-fectués à Sarrebourg en 1949. Rev. de Path. Veg. et d'Ent. Agr. de France 29:43-101. Ref. Jan./June 1950. 464.9 Sol
- 14909 GAULY, O. Muss das sein? Kann die bekämp-fung des rapsglanzkäfers [Meligethes aeneus] nicht auch ohne schädigung unserer bienen durchgeführt werden? Südwestdeut. Imker 2:270. Sept.1950. 424.8 Su25
- 14910 GOURLAY, E. S. Auckland Island Coleoptera. Roy. Soc. New Zeal. Trans. & Proc. 78:171-202. Aug. 1950. 514 W46
- 14911 HANDSCHIN, E. Über die allgemeingültigkeit der zur maikäfervernichtung verwendeten insektizide. Schweiz. Naturschutz 16:91-94. Nov.1950. 279.8 Sch9
- Melolontha.
- 14912 HASLAM, B. E. Weed control; beetles are effective ally against Klamath weed [Hypericum perfora-tum] on California ranges. West. Livestock J. 28(59):121-122. Oct.15,1950. 6 F2278
- Chrysolina.
- 14913 HEWLETT, P. S., and PLACKETT, R. L. Statistical aspects of the independent joint action of poisons, particularly insecticides. II. Examination of data for agreement with the hypothesis. Ann. Appl. Biol. 37: 527-552. Ref. Sept.1950. 442.8 An72
- Tests with pyrethrins, DDT, and benzene hexachloride against Tribolium castaneum.
- 14914 IAKOVLEV, B. V. Koloradskii kartofel'nyi zhuk i mery bor'by s nim [Colorado potato beetle and measures for its control]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 63 p. 427 Ia52
- 14915 IAKOVLEVA, P. Koloradskii kartofel'nyi zhuk [Colorado potato beetle]. Moskva, Gos. Izd-vo Detskoi Lit-ry Ministerstva Prosveshcheniia RSFSR, 1950. 22 p. 427 Ia53
- 14916 JARVIS, C. M. Further additions to the Bedfordshire list of Coleoptera. Ent. Mon. Mag. 86:304-305. Oct.1950. 421 En86
- 14917 JOLIVET, P., and THÉODORIDES, J. Les helminthes parasites de Coléoptères Chrysomélides. Ann. de Parasitol. Humaine et Compar. 25:340-349. Ref. 1950. 436.8 An7
- Nematode and trematode parasites of Chrysomelidae, Galerucidae, and Alticidae.
- 14918 KOCH, C. Proposed change of African generic names in the family Tenebrionidae (Col.). Entomologist 83:66-68. Mar.1950. 421 En8
- Homalirota for Homalopsis Lesne, not Kuhl and Hasselt, not Bleeker; Stips for Steira Westwood, not Eschscholtz; Smilophanus for Smilolus Haag, not Loew; Acetophanus for Acestor Haag, not Leidy; Prunaspila for Aspila Fähraeus, not Stephens, not Guenée; Madagassa for Pycna Fairmaire, not Amyot and Serville; Nodotelus for Eutelus Solier, not Walker; Nannalcyon for Nannocerus Fairmaire, not Mayr.
- 14919 KRISHNAMURTI, B. The potato beetle [Epilachna vigintioctopunctata] and its control by its natural enemy. Mysore Agr. Calendar 1949/50:33-34. 1949. 34.2 M99
- 14920 LEBEDEVA, L. I. Experiment in using DDT and benzene hexachloride dusts against larvae of the May beetle [Melolontha]. (In Russian.) Lesn. Khoz. 3(5):65-68. May 1950. 99.8 L562
- 14921 MCKEOWN, K. C. Australian insects, XL. Coleoptera 17—Corylophidae and Dermestidae. Austral. Mus. Mag. 10:99-102. Sept.15,1950. 475 Au7
- 14922 MARTYN, E. J. Report on the occurrence of pasture cockchafers [Aphodius pseudotasmaniae] in Tasmania, 1949-50. Tasmanian J. Agr. 21:216-221. Aug. 1950. 23 T182T
- 14923 MIKHAILOVSKII, V. S. Benzene hexachloride in the control of larvae of Melolonthini. (In Russian.) Les i Step' 2(7):38-42. July 1950. 99.8 L565
- 14924 MORGAN, S. R., and LYONS, T. Refined BHC for wireworm in tomato—no off-flavor. Agr. Chem. 5 (11):31-33,81. Nov.1950. 381 Ag8
- 14925 MÜLLER, F. Maikäferbekämpfung. Anz. f. Schädlingssk. 23:131-132. Sept.1950. 421 An9
- Melolontha control.



- 14926 NEWCOMER, E. J. Victory over the coffee broca [Stephanoderes hampei]. Brazil 24(12):5-7. Dec. 1950. 280.8 B732
- 14927 OSBURN, M. R. Experiments for control of the pecan weevil [Curculio caryae]. Soeast. Pecan Growers Assoc. Proc. 43:26-30. 1950. 94.69 G29
- 14928 PALM, T. Coleoptera new to Sweden. XI. (In Swedish.) Ent. Tidskr. 71:124-128. 1950. 421 En891
- 14929 PALM, T. Data on Swedish beetles. V. (In Swedish.) Ent. Tidskr. 71:129-143. 1950. 421 En891
- 14930 PALM, T., and BERGVALL, J. R. Our Euthira species (Col. Scydmaenidae). (In Swedish.) Ent. Tidskr. 71:120-123. 1950. 421 En891  
German summary.
- 14931 PARENIA, C. R., JR., and EWING, K. P. Late-season control of boll weevil [Anthonomus grandis] and bollworm [Heliothis armigera] with dusts and sprays. J. Econ. Ent. 43:593-595. Oct. 1950. 421 J822
- 14932 PARKER, H. L., BERRY, P. A., and SILVERIA, A. Vegetable weevils [Listroderes costirostris obliquus] and their natural enemies in Argentina and Uruguay. U. S. D. A. Tech. B. 1016, 28 p. Oct. 1950. 1 Ag84Te
- 14933 PENCE, R. J. An anobiid beetle [Ozognathus cornutus] infesting avocado trees. J. Econ. Ent. 43:724. Oct. 1950. 421 J822
- 14934 PHILLIPS, A. M. Effectiveness of DDT and parathion against the twig girdler [Oncideres cingulatus] on pecans. Soeast. Pecan Growers Assoc. Proc. 43:32-36. 1950. 94.69 G29  
Includes discussion.
- 14935 POLOZHENTSEV, P. A. Maĭskiĭ zhuk, ego sbor i ispol'zovanie [The cockchafer (Melolontha vulgaris) its collection and utilization]. Moskva, Goslesbumizdat, 1949. 49 p. 427 P76  
Use as feed for swine and poultry, as fertilizer, and as a source of fat.
- 14936 QUEMERE, F. Expérience des traitements contre les taupins. Bouches du Rhône Agr. 23(1038):14-15. (Cont.) Nov. 1, 1950. 14 B662
- 14937 REDDY, D. B. Influence of the interaction of environmental factors upon the immature stages of the rice weevil [Sitophilus oryza]. Ecology 31:641-642. Oct. 1950. 410 Ec7
- 14938 ROSELLA, E. On a voulu détruire les vers fil de fer, on a communiqué des mauvais goûts aux pommes de terre. Réveil Agr. 59:321-322. Nov. 1, 1950. 14 R322
- 14939 ROSELLA, E. On peut lutter directement contre le capnode, mais il faut aussi augmenter la résistance des arbres. Prog. Agr. et Vitic. 1950:278-280. Oct. 22/29, 1950. 14 P94
- 14940 ROSELLA, E. Pour combattre le capnode [Capnodis] des arbres à noyaux; on peut augmenter la résistance des arbres en choisissant bien les porte-greffes. Agriculture [Paris] 14:263-264. Sept. 1950. 14 Ag823
- 14941 ROST, H. Rechtzeitige kornkäferbekämpfung erhält unsere ernte. Versorgung 4:252-253. Nov. 1950. 280.8 V61  
Sitophilus granarius.
- 14942 SAVZDARG, È. È. Peculiarities of development of [sugar] beet weevil, stem-eater [Lixus subtilis]. (In Russian.) Moskva. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 11:109-113. 1949. 20 M857
- 14943 SCHEIBE, K. Zur kartoffelkäferbekämpfung 1950. Kartoffelbau 1:35-36. July 1950. 75.8 K145  
Leptinotarsa decemlineata.
- 14944 SCHMIDT, P. Maikäfervergiftung, boden und grundwasser. Schweiz. Naturschutz 16:94-96. Nov. 1950. 279.8 Sch9  
Melolontha control.
- 14945 SCHNEIDER, F. Vergleichende bekämpfungsversuche gegen maikäfer (Melolontha vulgaris) mit hexa und DDT in Alpnach (Obwalden). Schweiz. Z. f. Obst- u. Weinbau 59:397-405. (To be cont.) Oct. 28, 1950. 80 Sch9
- 14946 SCHWEDTFEGGER, F. Borkenkäfer- [Ips typographus] und dürreretrocknis in der Eifel. Dechentana 104:61-72. 1950. 509 B64
- 14947 SHENEFELT, R. D. Control of the pine root collar weevil [Hylobius radialis]. J. Econ. Ent. 43:684-685. Oct. 1950. 421 J822
- 14948 SLUKA, E. I. On the emergence of lamellicorn larvae [in November 1947, in Pinsk Region]. (In Russian.) Lesn. Khoz. 3(2):94. Feb. 1950. 99.8 L562
- 14949 SMITH, W. R., and CALHOUN, S. L. Comparative effectiveness of aldrin applied at different times of the day for boll weevil [Anthonomus grandis] control. J. Econ. Ent. 43:598-601. Oct. 1950. 421 J822
- 14950 STEEL, W. O. Notes on Staphylinidae, chiefly from New Zealand. 1-2. Roy. Soc. New Zeal. Trans. & Proc. 78:203-235. Ref. Aug. 1950. 514 W46  
New species in Parasilagonum, n.g.; Prognathoides n.g.; Zeoleusis n.g., and Eleusis.
- 14951 TITSCHACK, E. Der brotkäfer [Stegobium paniceum] aus der freien natur. Anz. f. Schädlingsk. 23:135-136. Sept. 1950. 421 An9
- 14952 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Sweetpotato weevil (Cylas formicarius elegantulus (Sum.)). U. S. D. A. Picture Sheet 25, rev., 2 p. May 1950. 1 En86P
- 14953 USHATINSKAJA, R. S. Importance of moisture of environment and food in the cold resistance of Sitophilus granarius. (In Russian.) Zool. Zhur. 29:341-349. Ref. July/Aug. 1950. 410 R92
- 14954 VOUKASSOVITCH, P. Sur l'action toxique de DDT dans la lutte contre Cleonus punctiventris. (In Serbian.) Yugoslavia. Min. Poljoprivrede. Radovi Poljoprivrednih Naučno-Istraživačkih Ustanova 1:157-174. 1949. 21.5 Y93  
French summary.
- 14955 ZUNINO, H. El gorgojo del eucalipto [Gonipterus gibberus]. Chacra 20(239):32-33. Oct. 1950. 9 C34

## DIPTERA

- 14956 ALEXANDER, C. P. New or insufficiently-known crane-flies from the Nearctic Region (Diptera, Tipulidae). XIII. Brooklyn Ent. Soc. B. 45:156-160. Dec. 1950. 420 B79  
New species and forms in Tipula, Erioptera, Tasiocera, and Cryptolabis.
- 14957 BALACHOWSKY, A. La mouche des fruits (Ceratitis capitata Wied.) est-elle originaire de l'Afrique tropicale? Fruits d'Outre Mer 5:319-324. Oct. 1950. 80 F9492
- 14958 BELSCHNER, H. G. Sheep ked ("tick") [Melophagus ovinus] causes unthriftiness and wool damage. N. S. Wales. Dept. Agr. Div. Anim. Indus. Dis. Anim. L. 31, 4 p. 1949. 41.9 N473D
- 14959 BISHOPP, F. C. Outlook for house fly control. Soap & Sanit. Chem. 26(12):118-120, 149. Ref. Dec. 1950. 307.8 Sol2
- 14960 BURR. Schäden durch fliegenbrut und pilzkrankheiten im wintergetreide müssen verhütet werden! Württemb. Wchnbl. f. Landwirt. 117:903. Sept. 30, 1950. 18 W96  
Includes Ocinella frit and Phytophaga destructor.
- 14961 CARTER, W. The oriental fruit fly [Dacus dorsalis]: progress on research. J. Econ. Ent. 43:677-683. Oct. 1950. 421 J822
- 14962 COE, R. L. On the Syrphidae (Diptera) of Moses Harris. Entomologist 83:149-160. Ref. July 1950. 421 En8  
With Supplementary note, by J. E. Collin, p. 160-161.
- 14963 COLYER, C. N. Notes on the breeding of Diploneura pilosella Schmitz and Megastelia rufipes Mg. (Dipt., Phoridae) and on the puparium of the former. Ent. Mon. Mag. 86:320-322. Nov. 1950. 421 En86
- 14964 CORRÊA, O. Treatment of equine gastrophilosis by gammexane and its toxicity to the horse. (In Portuguese.) Rev. Agron. [Pôrto Alegre] 14:72. Apr./June 1950. 9.2 R325  
Gasterophilus nasalis.
- 14965 COSTANTINO, G. Can we control the olive fly [Dacus oleae]? (In Italian.) Olivicoltura 5(8):7-15. Aug. 1950. 80 OL42
- 14966 COUPIN, A. A propos des fruits véreux. Voix des Colons 32(1575):2. Sept. 25, 1950. 24 V85  
Ceratitis capitata.
- 14967 DOVE, W. E. Horse flies (Tabanidae). Fla. Ent. 33:107-116. Ref. Sept. 1950. 420 F662
- 14968 EICHLER, W. Erfahrungen im Drosophila-test mit kontaktinsektiziden. Anz. f. Schädlingsk. 23:114-116. Aug. 1950. 421 An9
- 14969 FREEMAN, P. A subapterous species of Tipula (Diptera) from East Africa. Entomologist 83:61-63. Mar. 1950. 421 En8



- 14970 GÄBLER, H. Stiletfliegenlarven (Therevidae) als vernichter von kiefernspinnerräupen [*Dendrolimus pini*]. *Anz. f. Schädlingsk.* 23:120-121. Aug.1950. 421 An9
- 14971 GAUD. La lutte contre les mouches. *Inform. Marocaine* 507:3. (To be cont.) Sept.30,1950. 281.8 In3
- 14972 GJULLIN, C. M., CROSS, H. F., and APPLEWHITE, K. H. Tests with DDT to control black fly [*Simulium* spp.] larvae in Alaskan streams. *J. Econ. Ent.* 43:696-697. Oct.1950. 421 J822
- 14973 GOETSCH, W. Entdeckung eines neuen wirkstoffes (vitamin T). *Naturw. Ver. f. Steiermark. Mitt.* 77/78:153-163. 1949. 510 G79  
Tests with *Drosophila melanogaster*.
- 14974 GOSLIN, R. M. Some robber flies from Campbell County, Tennessee. *Tenn. Acad. Sci. J.* 25:303-306. Oct.1950. 500 T25A
- 14975 GOULDING, R. L., JR., and DEONIER, C. C. Observations on the control and ecology of black flies [*Simuliidae*] in Pennsylvania. *J. Econ. Ent.* 43:702-704. Oct.1950. 421 J822
- 14976 GRISON, P., FERON, M., and SACANTANIS, K. Développement de la mouche des fruits (*Ceratitis capitata* Wied.) en milieu nutritif synthétique. *Paris. Acad. des Sci. Compt. Rend.* 231:996-998. Nov.6,1950. 505 P21
- 14977 GRUNIN, K. I. A. Subcutaneous gadfly larvae of the genus *Oestromyia* Br. on rodents in U.S.S.R. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:621-625. July 21, 1950. 511 P444A
- 14978 HAGEN, K. S., and FINNEY, G. L. A food supplement for effectively increasing the fecundity of certain tephritid species. *J. Econ. Ent.* 43:735. Oct.1950. 421 J822  
Yeast hydrolysates in rearing of *Dacus dorsalis*, *D. cucurbitae*, and *Ceratitis capitata*.
- 14979 HILL, G. Why Grant County [Oklahoma] cattle bring more. *Farm J.* 74(12):36,118. Dec.1950. 6 F2212  
Cattle grub (*Hypoderma*) control.
- 14980 HILLER, G. A. The menace of the house-fly. *Ice Cream Indus.* 26:565-567. Nov.1950. 389.8 Ic24
- 14981 HUCKETT, H. C. The genus *Paraprosalpia* (Villeneuve) in North America, (*Prosalpia* Pokorny preoc.) Muscidae. *Brooklyn Ent. Soc. B.* 45:133-143. (Cont.) Dec.1950. 420 B79
- 14982 KÜHL, R. Grundsätzliches und neues zur wiederaufnahme planmässiger dasselbekämpfungen [*Oestridae*]. *Tierzüchter* 2:485-487. Sept.20,1950. 49 T445
- 14983 LÜHRS. Bis 40% verlust durch fliegen. *Deut. Landwirt. Presse* 73(20):5-6. Sept.23,1950. 18 D482
- 14984 LUIGI. Lutte contre les mouches dans l'armée. *Inform. Marocaine* 505:4. Sept.16,1950. 281.8 In3
- 14985 MARCH, R. B., and LEWALLEN, L. L. A comparison of DDT-resistant and non-resistant house flies. *J. Econ. Ent.* 43:721-722. Oct.1950. 421 J822
- 14986 MAYEUX, H. S., and WENE, G. P. Control of serpentine leaf miner [*Liriomyza pusilla*] on pepper. *J. Econ. Ent.* 43:732-733. Oct.1950. 421 J822
- 14987 NIZI, G. The effect of temperatures on the pupae of the "*Dacus oleae* Rossi." (In Italian.) *Olearia* 4:299-309. Ref. July/Aug.1950. 307.8 OL2  
English summary.
- 14988 PIGULEVSKIĬ, S. V. Ways and methods of *Gasterophilus intestinalis* larvae penetration into the skin of man. (In Russian.) *Priroda* 39(8):74-76. Aug.1950. 410 P933
- 14989 POPOV, G. O. On the control of the fly, *Senotainia*. (In Russian.) *Pchelovodstvo* 27:374-375. June 1950. 424.8 P295  
Predator of honeybees.
- 14990 RINGDAHL, O. Dipterological notes from south Swedish marshes. (In Swedish.) *Ent. Tidskr.* 71:111-119. 1950. 421 En891
- 14991 ROHWER, S. A. Threat of oriental fruit fly [*Dacus dorsalis*] and citrus blackfly [*Aleurocanthus woglumi*]. *Washington, U. S. Bur. Ent. & Plant Quar.* 1950. 17 p. 1.9 En86Ro  
Talk to the Fruit and Vegetable Conference at the annual meeting of the American Farm Bureau Federation, Dallas, Dec. 11, 1950.
- 14992 SABROSKY, C. Notes on Trichopodini (Diptera, Larvaevoridae), with description of a new parasite [*Acaulona erythropogga*] of cotton stainers [*Dysdercus suturellus*] in Puerto Rico. *Wash. Acad. Sci. J.* 40:361-371. , Nov.15,1950. W276J
- 14993 SEGNETTI, L., and FIREHAMMER, B. D. High pressure sprays in control of the sheep tick (*Melophagus ovinus* Linn). *Amer. Vet. Med. Assoc. J.* 117:447-449. Dec.1950. 41.8 Am3
- 14994 STEYSKAL, G. C. A curious habit of an empidid fly [*Rhaphomyia longicauda*]; third note. *Brooklyn Ent. Soc. B.* 45:155. Dec.1950. 420 B79
- 14995 WALRECHT, B. J. J. R. New notes on bee flies (*Bombylus*). (In Dutch.) *Levende Nat.* 53:172-175. Sept.1950. 410 L57
- 14996 WEBER, F. Kohlfliegebekämpfungsversuche. *Hannoversche Land- u. Forstwirt. Ztg.* 103:796. Sept.9, 1950. 18 H194  
*Hylemya brassicae*.
- 14997 WILLIAMS, C. M., and GALAMBOS, R. Oscilloscopic and stroboscopic analysis of the flight sounds of *Drosophila*. *Biol. B.* 99:300-307. Ref. Oct.1950. 442.8 B52
- 14998 YASUZUMI, G., and YOSHIDA, Y. The differential staining of heterochromatin and euchromatin of the salivary gland chromosome with neutral violet. *Cytologia* 15:255-258. Aug.1950. 442.8 C99  
*Drosophila virilis*.
- 14999 YASUZUMI, G., and others. Histochemical studies on chromosomes. *Cytologia* 15:173-182. Ref. Aug.1950. 442.8 C99  
T. Mori, H. Matsukura, and R. Minamino, joint authors. Studies on salivary gland chromosomes of *Drosophila virilis* and *Lucilia* sp.
- 15000 YASUZUMI, G., and SAWADA, H. Researches on mineral salts in the salivary gland chromosome. *Cytologia* 15:295-298. Aug.1950. 442.8 C99  
*Drosophila virilis*.
- 15001 YASUZUMI, G., YOSHIDA, Y., and NANJO, S. Researches on the fine structure of chromosomes by means of an electron microscope. II. Salivary gland chromosomes treated by the supersonic vibration. *Cytologia* 15:299-302. Aug.1950. 442.8 C99  
*Drosophila virilis*.
- 15002 YATES, W. W., and LINDQUIST, A. W. Exposure of house flies to residues of certain chemicals before exposure to residues of pyrethrum. *J. Econ. Ent.* 43:653-655. Oct.1950. 421 J822

## Culicidae

- 15003 ANDREWS, J. M., QUINBY, G. E., and LANGMUIR, A. D. Malaria eradication in the United States. *Amer. J. Pub. Health* 40:1405-1411. Nov.1950. 449.9 Am3J
- 15004 GAPIZ, R. B., and SANTIAGO, D. A supplementary guide for rapid identification of the larvae of *Anopheles minimus flavirostris* (Ludlow) and *Anopheles mangyanus* (Banks). *Philippine J. Sci.* 78:127-144. Ref. June 1949. 475 P53
- 15005 JENKINS, D. W. Bionomics of *Culex tarsalis* in relation to western equine encephalomyelitis. *Amer. J. Trop. Med.* 30:909-916. Ref. Nov.1950. 448.8 Am33
- 15006 JENKINS, D. W. Dispersal and predation of Arctic mosquitoes tagged with radiophosphorus. (Abs.) *Ecol. Soc. Amer. B.* 31:50-51. Sept.1950. 410.9 Ec7
- 15007 RODRÍGUEZ, J. A. Ensayo de control del *Aedes aegypti* mediante la aplicación de DDT en los tanques de captación de aguas. *Ofic. Sanit. Panamer. B.* 29:1150-1151. Nov.1950. 449.9 P192B
- 15008 WHITE, C. M. Mosquitoes. *N. C. State Bd. Health. Health B.* 65(8):10-12. Aug.1950. 449.7 N81B
- 15009 WILSON, D. B., GARNHAM, P. C. C., and SWELLENGREBEL, N. H. A review of hyperendemic malaria. *Trop. Dis. B.* 47:677-698. Ref. Aug.1950. 448.8 T752  
Includes references to *Anopheles* vectors.

## HEMIPTERA (HETEROPTERA AND HOMOPTERA)

- 15010 ANGELL, G. N. We're licking yellows, too. *Wash. Farmer* 75:863. Dec.7,1950. 6 R151  
Transmission of yellows disease of strawberry by aphids.



- 15011 BALACHOWSKY, A. Sur un Parlagenia (Hom. Coccoidea) nouveau du Beloutchistan Iranien. Rev. de Path. Veg. et d'Ent. Agr. de France 29:17-20. Jan./June 1950. 464.9 Sol
- 15012 BEIRNE, B. P. The Canadian species of Eiptera (Homoptera: Achilidae). Canad. Ent. 82:186-190. Sept.1950. 421 C16
- 15013 BERAN, F. Die wirkung von dinitro-ortho-kresol-mineralölkombinationen im frostspritzverfahren. Pflanzenschutzberichte 5:227-232. 1950. 464.9 P48 English summary.  
For control of Aspidiotus perniciosus.
- 15014 BEVILACQUA, I. "Aspidiotus perniciosus" and winter spraying. (In Italian.) Campagnolo 5(11):2-3. Nov.1950. 16 C15  
On fruit.
- 15015 BROADBENT, L., CHAUDHURI, R. P., and KAPICA, L. The spread of virus diseases to single potato plants by winged aphids. Ann. Appl. Biol. 37:355-362. Sept.1950. 442.8 An72  
Tests with Myzus persicae, Aulacorthum solani, Macrosiphum euphorbiae, and Aphis rhamni.
- 15016 CALDWELL, J. S. The synonymy of Empoasca fabalis De Long (Cicadellidae: Homoptera). Puerto Rico U. J. Agr. 31:226. July 1947, pub. 1950. 8 P832J
- 15017 CANDURA, G. S. Best and cheapest method of controlling San José scale [Aspidiotus perniciosus] in Italy. (In Italian.) Agr. Trent. 4(4):1-2. Feb.15, 1950. 16 Ag8263  
Also in Agr. Ital. 1:430-433. Sept.1, 1950. 16 Ag822
- 15018 CARTER, M. W. The family Peloridiidae (Hemiptera) and its occurrence in New Zealand. Roy. Soc. New Zeal. Trans. & Proc. 78:167-170. Ref. Aug. 1950. 514 W46
- 15019 CHAMBERLIN, T. R., and MEDLER, J. T. A comparison of methods for estimating populations of spittlebug nymphs [Philaenus leucophthalmus] in alfalfa. J. Econ. Ent. 43:731-732. Oct.1950. 421 J822
- 15020 CHAUDHURI, R. P. Studies on two aphid-transmitted viruses of leguminous crops. Ann. Appl. Biol. 37:342-354. Ref. Sept.1950. 442.8 An72  
Pea mosaic diseases transmitted by Myzus persicae, Macrosiphum pisi, M. solanifolii, and Aphis fabae.
- 15021 CRESSMAN, A. W., MUNGER, F., and BROADBENT, B. M. Effectiveness of different concentrations of parathion alone and of oil with parathion to control California red scale [Aonidiella aurantii]. J. Econ. Ent. 43:610-614. Oct.1950. 421 J822
- 15022 DUDLEY, J. E., JR., and BRONSON, T. E. Six years field tests with insecticidal dusts against pea aphid [Macrosiphum pisi]. J. Econ. Ent. 43:642-644. Oct.1950. 421 J822
- 15023 DUPUIS, C. Sur une prétendue phase submarginale dans le développement de certains Hémiptères-Hétéroptères. Paris. Acad. des Sci. Compt. Rend. 231: 879-880. Oct.23, 1950. 505 P21
- 15024 ENSER, K. Histologische untersuchungen über den saugstich von Aspidiotus perniciosus Comst. (San José-schildlaus). Pflanzenschutzberichte 5:204-226. Ref. 1950. 464.9 P48  
English summary.
- 15025 FISHER, F. E., and GRIFFITHS, J. T., JR. The fungicidal effect of sulfur on entomogenous fungi attacking purple scale [Lepidosaphes beckii]. J. Econ. Ent. 43:712-718. Ref. Oct.1950. 421 J822
- 15026 FLANDERS, S. E. An enemy [Aphytis] of purple scale [Lepidosaphes beckii] recently established in California. Calif. Citrog. 36:64-65. Dec.1950. 80 C125
- 15027 FLUITER, H. J. DE. The effect of length of day and temperature upon the occurrence of the sexual forms in Aphis fabae Scop., the black bean aphid. (In Dutch.) Tijdschr. over Plantenziekten 56:265-285. Ref. July/Aug.1950. 464.8 T44  
English summary.
- 15028 FRAPPA, C. Sur la cochenille Orthozia insignis Dougl. et le Lantana camara ou corbeille d'or à Madagascar. Madagascar. Insp. Gén. des Serv. Agr. B. Agr. 3(23):16-19. May 1950. 25 M26
- 15029 GOMES, J. "White lice" of coffee and other plants. (In Portuguese.) São Paulo Supt. dos Serv. do Café. B. 25:511-512. July 1950. 68.29 Sa63  
Pseudococcus.
- 15030 GONÇALVES, L. I. Plant lice on crops. (In Portuguese.) Seleç. Agr. 5(53):57-58. Sept.1950. 9.2 Se4  
Brazill.
- 15031 GOOSSEN. Die San-José-schildlaus [Aspidiotus perniciosus] der gefährlichste obstbaumschädling. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1423-1424. Oct.12, 1950. 18 L2346
- 15032 HOFFERBERT, W. Beobachtungen über das auftreten der pfirsichblattlaus [Myzus persicae] in Ebstorf 1949. Kartoffelbau 1:33. July 1950. 75.8 K145
- 15033 HUSSEY, R. F., and HERRING, J. L. A new Microvelia from Florida (Hemiptera, Veliidae). Fla. Ent. 33:117-120. Sept.1950. 420 F662
- 15034 JOHNSON, C. G. Infestation of a bean field by Aphis fabae Scop. in relation to wind direction. Ann. Appl. Biol. 37:441-450. Sept.1950. 442.8 An72
- 15035 JONSON, D. The white menace. Begonion 17: 234, 236. Nov.1950. 96.511 B39  
Pseudococcus.
- 15036 KENNEDY, J. S., and BOOTH, C. O. Methods for mass rearing and investigating the host relations of Aphis fabae Scop. Ann. Appl. Biol. 37:451-470. Ref. Sept.1950. 442.8 An72
- 15037 KHANNA, K. L., SHARMA, S. L., and HUSSAIN, M. Z. On Pyrilla infestation and varietal resistance in sugarcane. Cur. Sci. 19:251-252. Aug.1950. 475 Sci23
- 15038 LALLEMAND, A. Nouveaux Homoptères de l'Ouest Africain. Inst. Franç. d'Afrique Noire. B. 12: 630-633. July 1950. 515 D14  
New species in: Eulepyroniella n.g., Ricantia, and Dictyophora.
- 15039 LIMA, A. DA C. New species of Margarodes from Brazil (Coccoidea, Margarodidae). (In Portuguese.) Inst. Oswaldo Cruz Mem. (1949)47:241-248. 1950. 448.9 In74
- 15040 MACGILL, E. I. The late nymphal stages of Stollia fabricii Kirk. (Hem., Pentatomidae). Ent. Mon. Mag. 86:302-303. Oct.1950. 421 En86
- 15041 MAHDIHASSAN, S. The earliest reference to lac in Chinese literature. Cur. Sci. 19:289-290. Sept. 1950. 475 Sci23
- 15042 MAZZA, S. Chagas disease in the Argentine Republic. Inst. Oswaldo Cruz Mem. (1949)47:289-302. 1950. 448.9 In74  
Includes list of triatomids which may be vectors.
- 15043 OSIMANI, J. J., VERÍSSIMO, S., and BAYCÉ CARBONELL, P. La profilaxis de la enfermedad de Chagas en el Uruguay por medio del gamexano; experiencias realizadas—plan de lucha contra el Triatoma infestans. Ofic. Sanit. Panamer. B. 29:1125-1134. Nov. 1950. 449.9 P192B
- 15044 OUTIN, G. Le pou de San José (Quadraspidotus [i.e. Aspidiotus] perniciosus Comst.) en Allemagne occidentale. Rev. de Path. Vet. et d'Ent. Agr. de France 29:10-16. Jan./June 1950. 464.9 Sol
- 15045 PETERSON, A. G., and GRANOVSKY, A. A. Feeding effects of Empoasca fabae on the resistant and susceptible variety of potato. Amer. Potato J. 27:366-371. Oct.1950. 75.8 P842
- 15046 PLUMMER, C. C., and SHAW, J. G. Toxicity of spray oils to immature forms of citrus blackfly [Aleurocanthus woglumi]. J. Econ. Ent. 43:686-690. Oct.1950. 421 J822
- 15047 POL, P. H. VAN DE. Measures for the prevention of San Jose scale [Aspidiotus perniciosus]. (In Dutch.) Fruitteelt 40:716-717. Sept.21, 1950. 86 N28
- 15048 POL, P. H. VAN DE. Occurrence of the San Jose scale [Aspidiotus perniciosus] abroad. (In Dutch.) Fruitteelt 40:734-736. Sept.28, 1950. 86 N28
- 15049 POSNETTE, A. F., and ROBERTSON, N. F. Virus diseases of cacao in West Africa. VI. Ann. Appl. Biol. 37:363-377. Ref. Sept.1950. 442.8 An72  
Transmission by Pseudococcus njalensis.
- 15050 POSNETTE, A. F. Virus diseases of cacao in West Africa. VII. Virus transmission by different vector species. Ann. Appl. Biol. 37:378-384. Sept.1950. 442.8 An72  
Transmission by Paraputo ritchiei, Phenacoccus sp., and Pseudococcus spp.
- 15051 RAINWATER, C. F., and IVY, E. E. Factors influencing compatibility of benzene hexachloride and parathion with calcium arsenates. J. Econ. Ent. 43:645-648. Oct.1950. 421 J822  
Tests with Aphis gossypii.
- 15052 RÖNNEBECK, W. Zur frage der chemis bekämpfung der grünen pfirsichblattlaus (Myzodes persicae Sulzer) als virusüberträger im kartoffelfeld. Pflanzenbau u. Pflanzenschutz 1:119-132. Ref. June 1950. 464.8 P88



- 15053 RUI, D. Alarms in the vineyard. (In Italian.) *Informatore Agr.* 6:141,150. (Cont.) Sept.15-Oct.1,1950. 281.8 In32  
Control of *Pseudococcus citri*.
- 15054 SCHMIDT, Beobachtungen über das auftreten der pfirsichblattlaus [*Myzus persicae*] im jahre 1949. *Kartoffelbau* 1:32-33. July 1950. 75.8 K145
- 15055 SEVERIN, H. H. P., and TOMPKINS, C. M. Symptoms induced by some species of aphids feeding on ferns. *Hilgardia* 20:81-92. July 1950. 100 C12H
- 15056 SOUTHWOOD, T. R. E., and HINE, D. J. Further notes on the biology of *Sehrus bicolor* (L.) (Hem., Cydnidae). *Ent. Mon. Mag.* 86:299-301. Oct.1950. 421 En86
- 15057 STAFFORD, E. M., and BARNES, D. F. Sprays for fig scale [*Lepidosaphes ficus*] control. *J. Econ. Ent.* 43:730-731. Oct.1950. 421 J822
- 15058 STOKES, H. G. The early stages of *Sehrus bicolor* L. (Hem., Cydnidae). *Ent. Mon. Mag.* 86:309-310. Oct.1950. 421 En86
- 15059 THOMPSON, W. L. Scales, whiteflies and mealybugs. Why do we control them and how. *Citrus Mag.* 13(3):31-33. (To be cont.) Nov.1950. 80 C498  
*Lepidosaphes beckii*, *Chrysomphalus aonidum*, *Unaspis citri*, *Dialeurodes citri*, *D. citrifolii*, *Pseudococcus citri*.
- 15060 TIRELLI, M. Check the spread of *Phylloxera*. (In Italian.) *Humus* 6(8):22-23. Aug.1950. 16 H88
- 15061 TOMLINSON, W. E., JR. Be on the watch for cranberry scale [*Aspidiotus oxycoccus*]. *Amer. Cranberry Growers' Assoc. Proc. Annu. Conv.* 81:18-21. 1950. 81 Am35C
- 15062 TOMLINSON, W. E., JR., MARUCCI, P. E., and DOEHLERT, C. A. Leafhopper transmission of blueberry stunt disease. *J. Econ. Ent.* 43:658-662. Oct.1950. 421 J822  
Chief vectors: *Scaphytopius magdalenensis*; *S. verecundus*.
- 15063 TREML, A. G. *Eurygaster integriceps* Put. under conditions of shelterbelt agriculture. (In Russian.) *Zool. Zhur.* 29:301-306. July/Aug.1950. 410 R92
- 15064 TROPIN, I. V. Sosnovyi klop i bor'ba s nim [The pine bug, *Aradus cinnamomeus*, and its control]. *Moskva, Goslesbumizdat*, 1940. 53 p. 431 T752
- 15065 UICHANCO, L. B. A revision of the genus *Ectenus* Dallas, with description of a new species (Hemiptera, Pentatomidae). *Philippine J. Sci.* 78:285-289. Sept.1949. 475 P53
- 15066 VILLIERS, A. Note d'entomologie Ouest-Africaine. I. Descriptions de nouveaux Hémiptères Hétéroptères. *Inst. Franç. d'Afrique Noire. B.* 12:634-659. July 1950. 515 D14  
New species and forms in *Sphecanolestes*, *Polytoxus*, *Sericocoris*, *Holopterna*, *Sulpicia*, *Kollerella*, *Homocerus*, *Tagus*, *Latimbus*, *Acanthomia*, *Myla*, and *Dulichius*.
- 15067 WAGNER, E. Reihenuntersuchungen bei der untergattung *Exolygus* E. Wagn. (Hem. Het. Miridae). (Fortsetzung der arbeit über *Lygus rutilans* Horv.). *Naturw. Ver. f. Steiermark. Mitt.* 77/78:145-150. 1949. 510 G79
- 15068 WOLCOTT, G. N. The leafhoppers of white clover, *Trifolium repens* L., in northern New York and in the mountains of Haiti. *Puerto Rico U. J. Agr.* 31:220-223. July 1947, pub.1950. 8 P832J  
Describes various species.
- 15069 WOODRUFF, N. Interactions between temperature and toxicity of four insecticides applied by injection. *J. Econ. Ent.* 43:663-669. Ref. Oct.1950. 421 J822  
Nicotine, DDT, Sodium azide and rotenone injected into nymphs and adults of *Oncopeltus fasciatus*.
- HYMENOPTERA
- 15070 AERTS, W. Hymenopteren des Rheidter Werthchens bei Köln. *Decheniana* 104:33-59. 1950. 509 B64
- 15071 BEIJERINCK, W. *Paururus juvenecus* L., the steely blue wood wasp. (In Dutch.) *Levende Nat.* 53:156-158. Aug.1950. 410 L57
- 15072 BELLAVITE, F. Fruit trees: *Aphelinus mali*. (In Italian.) *Informatore Agr.* 6(20):5. Nov.1,1950. 281.8 In32  
Controls *Eriosoma lanigerum*.
- 15073 BENOIST, R. Apides de l'A. O. F. communiqués par A. Villiers. *Inst. Franç. d'Afrique Noire. B.* 12:629. July 1950. 515 D14
- 15074 BERNARD, F. Notes biologiques sur les cinq fourmis les plus nuisibles dans la région méditerranéenne. *Rev. de Path. Veg. et d'Ent. Agr. de France* 29:26-42. Ref. Jan./June 1950. 464.9 Sol  
*Lasius alienus*, *Paratrechina fulva*, *Iridomyrmex humilis*, *Tapinoma nigerrimum*, *T. simrothi*.
- 15075 BLANCHARD, E. E. Un nuevo parásito del gorgojo del tabaco. Argentina. *Dir. Gen. de Invest. Agr. Rev. de Invest. Agr.* 4:135-138. Jan.1950. 9 R329  
*Eurydinotoides ogloblini*, n. sp., on *Faustinus cubae*.
- 15076 BROWN, W. L., JR. Revision of the ant tribe Dacetini. V. The delimitation of *Arnoldidris* new genus (Hymenoptera: Formicidae). *Amer. Ent. Soc. Trans.* 76:143-145. Sept.1950. 420 P53
- 15077 BRUNER, S. C., and FERNANDEZ ROSENADA, M. D D T contra la hormiga brava [*Solenopsis geminata*]. *Tierra Libre* (ser.2)14(11):9-10. Nov.1950. 8 T443
- 15078 COLE, A. C. Some observations on *Stenamma Westwood* (Hymenoptera: Formicidae). *Tenn. Acad. Sci. J.* 25:297. Oct.1950. 500 T25A
- 15079 CUTAK, L. *Chlordane* vs. ants. *Mo. Bot. Gard. B.* 38:158-160. Nov.1950. 451 M69B
- 15080 DETROUX, L. Notes sur l'éthologie de la ténthrede de la rave (*Athalia colibri* Christ [l. e. rosae]); action des insecticides de contact d'origine végétale et de synthèse. *Rev. de l'Agr.* 3:972-979. Sept.1950. 13 R322  
English summary.
- 15081 FJELDDALEN, J. The turnip sawfly [*Athalia rosae*]; a new pest on Brassica. (In Norwegian.) *Gartneryrket* 40:715-717. Oct.14,1950. 80 G1938
- 15082 GREEN, G. W., and SULLIVAN, C. R. Ants [*Camponotus herculeanus ligniperdus*; *Formica fusca*] attacking larvae of the forest tent caterpillar, *Malacosoma disstria* Hbn. (Lepidoptera: Lasiocampidae). *Canad. Ent.* 82:194-195. Sept.1950. 421 C16
- 15083 GREEN, H. B. Station studies fire ant [*Solenopsis geminata*] which damages crop. *Miss. Farm Res. [Miss. Sta.]* 13(10):1,7. Oct.1950. 100 M69M1
- 15084 HAMILTON, D. W. *Profenusa canadensis*, a pest of English Morello cherries in eastern New York. *J. Econ. Ent.* 43:694-696. Oct.1950. 421 J822
- 15085 KLOFT, W. Ökologische untersuchungen zur verbreitung der mermithiden bei ameisen. *Zool. Jahrb., Abt. f. System., Geog. u. Biol. Tiere* 78:526-530. Ref. 1950. 410 Z751S
- 15086 MILLIRON, H. E. Descriptions of some species of the genus *Pulvilligera* Strand from the South and Southwest Pacific (Hymenoptera: Chalcidoidea; Torymidae). *Pacific Sci.* 4:346-354. Oct.1950. 475 P11
- 15087 MUSGRAVE, A. J. A note on the dusting of crops with fluorescein to mark visiting bees. *Canad. Ent.* 82:195-196. Sept.1950. 421 C16
- 15088 PEACOCK, A. D. Studies in Pharaoh's ant, *Monomorium pharaonis* (L.). 4. Egg-production. *Ent. Mon. Mag.* 86:294-298. Oct.1950. 421 En86
- 15089 POLTEV, V. I. The bee wolf [*Philanthus*]—dangerous pest of honeybees. (In Russian.) *Pchelovodstvo* 27:303-305. May 1950. 424.8 P295
- 15090 RAYMENT, T. New bees and wasps. XIV. Three new bees in the genus *Cladocera*, and their role in the pollination of several *Persea* species ("Geebung"). *Victorian Nat.* 67:101-111. Sept.1950. 410 V66
- 15091 SCHENK, P. J. Wasps. (In Flemish.) *Cult. en Handel* 16:487-489. Aug.1950. 80 C892
- 15092 SHUTOVA, N. N. New insect-eater [*Casca chinensis*]—parasite of *Leucaspis japonica* [pest of citrus]. (In Russian.) *Priroda* 39(8):72-74. Aug.1950. 410 P933
- 15093 SMITH, O. J., and PETERSON, A. *Microctonus vittatae*, a parasite of adult flea beetles [*Phyllotreta* spp.], and observations on hosts. *J. Econ. Ent.* 43:581-585. Ref. Oct.1950. 421 J822
- 15094 STELFOX, A. W. A new species of *Cryptoserphus* (Hym., Proctotrupinae) from Ireland. *Ent. Mon. Mag.* 86:314-315. Nov.1950. 421 En86
- 15095 STELFOX, A. W., and GRAHAM, M. W. R. DE V. On *Panerema inops* Först. and allied species of the genus *Aspilota* (Hym., Braconidae, Alysiinae), with descriptions of two new species. *Ent. Mon. Mag.* 86:289-293. Oct. 1950. 421 En86
- 15096 STELFOX, A. W. On Walker's male *Opius* recorded by Haliday as *O. scabriculus* Wesmael (Hym., Braconidae). *Ent. Mon. Mag.* 86:313-314. Nov.1950. 421 En86



15097 STRICKER, M. H. Ant control. West. Canada Beekeeper 13(11):7-8. Nov.1950. 424.8 W525  
Apiary pests.

15098 STUMPER, R., and KUTTER, H. Sur le stade ultime du parasitisme social chez les fourmis, atteint par *Teletomyrmex schneideri* (subtrib. nov.; gen. nov.; spec. nov. Kutter). Paris. Acad. des Sci. Compt. Rend. 231:876-878. Oct.23,1950. 505 P21  
Parasitic on *Tetramorium caespitum*.

15099 WARNECKE, G. Schmetterlingsraupen als Parasiten in ameisenestern. Kosmos 46:451-454. Oct. 1950. 474 K842

See also Apiculture and *Apis mellifera*.

## LEPIDOPTERA

15100 ABERCROMBIE, R. G. The brown argus (*Aricia agestis*) in the Peak District. Entomologist 83:128. June 1950. 421 En8

15101 ACKERMAN, W. Sex catches the gypsy [*Por-thetria dispar*]; entomologists show that you can't under-estimate the power of a woman. Org. Farmer 2(3):35-37. Oct.1950. 57.8 Or3

15102 ALLAN, P. B. M. Gender of *Colias* and *Ochlodes*. Entomologist 83:45-46. Feb.1950. 421 En8

15103 ASH, J. Records of Lepidoptera from an area in Berkshire in 1949. Ent. Rec. & J. Variation 62:85-88. (To be cont.) Oct.1950. 421 En89

15104 BARBOSA, A. J. *Prodenia litura* as a cotton pest. (In Portuguese.) Gaz. do Agr. 2:178-182. Aug. 1950. 24 G25

15105 BARKER, B. R. A rare British butterfly. Field 196:824. Nov.11,1950. 10 F45  
Maculinea arion.

15106 BATCHELOR, D. M. The spread of *Pararge aegeria* and other notes [on Lepidoptera]. Entomologist 83:93-95. Apr.1950. 421 En8

15107 BAYNES, E. S. A. Irish *Argynnis euphrosyne*, Linn. Entomologist 83:105-108. May 1950. 421 En8

15108 BENNETT, N. H. A revision of the *echerius* group of the genus *Abisara* Felder (Rhop. Riodinidae). Entomologist 83:1-9,34-42. Jan.-Feb.1950. 421 En8

15109 BLACKIE, J. E. H. The range and distribution of *Strymonidia pruni* (L.) (Lep. Lycaenidae). Entomologist 83:246-248. Nov.1950. 421 En8

15110 BLANCHARD, K. A., and GOUCK, H. K. DDT-oil emulsion for combined control of corn earworm [*Heliothis armigera*] and European corn borer [*Pyrausta nubilalis*]. J. Econ. Ent. 43:734-735. Oct.1950. 421 J822

15111 BOWDEN, S. R. *Pararge aegeria* near Hitchin. Entomologist 83:65. Mar.1950. 421 En8

15112 BRADLEY, J. D. On the occurrence of *Tinea columbariella* Wocke (Lep. Tineidae) in England, with a description of the species. Entomologist 83:169-172. Aug.1950. 421 En8

15113 BRIAN, M. V., and BRIAN, A. D. Bird predation of defoliating caterpillars. Scot. Nat. 62:88-92. Summer 1950. 410 Sco3

15114 BRUNSON, M. H., and KOBLITSKY, L. A study of DDT deposits on peach foliage and fruit treated for control of the oriental fruit moth [*Grapholitha molesta*]. U. S. Bur. Ent. & Plant Quar. E-809,6 p. Nov.1950. 1.9 En83

15115 BRYZGALOVA, V. A. Lugovoi motylek i mery bor'by s nim [Loxostege sticticalis and measures for its control]. Irkutsk,Irkutskoe Obl. Gos. Izd-vo, 1950. 26 p. 430 B84

15116 CHIARELLI DE GAHAN, A., and TOURON, E. A. Datos biologicos de *Proxenus rionegrensis* (i.l.). Argentina. Dir. Gen. de Invest. Agr. Rev. de Invest. Agr. 4:139-151. Jan.1950. 9 R329

15117 CHIARELLI DE GAHAN, A. "*Proxenus rionegrensis*", nuevo Lepidoptero de la Argentina (Lep. Noct. Acronyctinae). Argentina. Dir. Gen. de Invest. Agr. Rev. de Invest. Agr. 3:397-402. Oct.1949. 9 R329

15118 COCKAYNE, E. A. Aberrations of British Lepidoptera (Geometridae). Entomologist 83:49-55. Mar. 1950. 421 En8

New forms in *Hemistola*, *Cosymbia*, *Scopula*, *Sterrhia*, *Lygris*, *Epirrhoa*, *Calostigia*, *Mesoleuca*, *Ast.ena*, *Loma-spilis*, *Ligdia*, *Bapta*, *Opisthograptis*, *Venilia*, *Chiasmia*, *Ectropis*, and *Aethalura*.

15119 COCKAYNE, E. A. British *Hadena compta*. Entomologist 83:212-213. Sept.1950. 421 En8

15120 COCKAYNE, E. A. *Diarsia florida* Schmidt (Lep. Agrotinae): a species new to Britain. Entomologist 83:173-174. Aug.1950. 421 En8

15121 COCKAYNE, E. A. *Sarrothripus degenerana* Hübner (Lep.: Sarrothripinae): a species new to Britain. Entomologist 83:123-124. June 1950. 421 En8

15122 COLLIER, A. E. A note on *Lysandra ab. polo-mus* Zeller. Entomologist 83:21-22. Jan.1950. 421 En8  
Hybridization experiment.

15123 COLLIER, A. E. A note on the genetics of *Aphantopus hyperantus ab. crassipuncta* and *Maniola jurtina ab. semialba*. Entomologist 83:25-26. Feb.1950. 421 En8

15124 DANNREUTHER, T. Migration records, 1949. Entomologist 83:109-114,129-133. May-June 1950. 421 En8

Chiefly Lepidoptera.

15125 DAVIAULT, L. Les livrées [*Malacosoma dis-tria*]. Forêt et Conserv. 2:765-768. (Cont.) July/Aug. 1950. 99.8 F792

15126 DEANS, A. S. C. The death's head hawk moth [*Acherontia atropos*] in north-east Scotland. Scot. Bee-keeper 26:206-207. Oct.1950. 424.8 Sco8

15127 DEERE & CO. How to fight corn borers [*Py-rausta nubilalis*]. Moline, Ill., 1950? 22 p. 430 D36

15128 DE LUCCA, C. Additional records of Micro-lepidoptera from Malta. Entomologist 83:249-251. Nov. 1950. 421 En8

15129 DE LUCCA, C. Casual immigrant *Rhopalocera* in Malta. Entomologist 83:64-65. Mar.1950. 421 En8

15130 DEWICK, A. J. Essex migrant butterflies in 1949. Entomologist 83:44. Feb.1950. 421 En8

15131 DE WORMS, C. G. M. British Lepidoptera collecting, 1949. Entomologist 83:99-104,134-140. May-June 1950. 421 En8

15132 DILLS, L. E., and ODLAND, M. L. DDT and TDE best for control of cabbage caterpillars. Mkt. Growers J. 79(11):14-15. Nov.1950. 6 M34  
*Pieris rapae*, *Trichoplusia ni*, and *Plutella maculipennis*.

15133 DITMAN, L. P. Fall armyworm [*Laphygma frugiperda*] control. J. Econ. Ent. 43:726-727. Oct.1950. 421 J822

15134 DUPREE, M., and BECKHAM, C. M. Progress report—control of pickleworm [*Diaphania nitidalis*] on cucurbits. Ga. Agr. Expt. Sta. Mimeog. Ser. 15,8 p. Feb.20,1950. 100 G29M

15135 FLETCHER, T. B. *Antigastra catalaunalis* in Gloucestershire. Ent. Rec. & J. Variation 62:88-89. Oct.1950. 421 En89

15136 FRANCLEMONT, J. G. Notes on some genera and species of eastern moths with descriptions of new species (Lepidoptera, Phalaenidae). Brooklyn Ent. Soc. B. 45:144-155. Dec.1950. 420 B79  
New species in *Procus*, *Zale*, and *Caenurgla*.

15137 FRANCLEMONT, J. G. On the types of two genera in the Lepidoptera (Arctiidae and Drepanidae). Entomologist 83:199-200. Sept.1950. 421 En8  
*Callimorpha*; *Drepana*.

15138 FRANCO, E. The rice caterpillar in the Sao Francisco Basin. (In Portuguese.) Seleç. Agr. 5(53):21-27. Sept.1950. 9.2 Se4  
*Mocis repanda*.

15139 GÄBLER, H. Das auftreten der nonne [*Lyman-tria monacha*] in der Ostzone. Deut. Landwirt. Gesell. Arb. (n.s.):5:242-245. 1949. 18 D48

15140 HAGGETT, G. The life history and habits of *Zeuzera pyrina* Linn. (aesculi Linn.) in Britain. Entomologist 83:73-81. Apr.1950. 421 En8

15141 HALL, D. W. A note on the distribution of the peacock butterfly *Nymphalis* [i.e. *Vanessa*] in Scotland. Scot. Nat. 62:109-110. Summer 1950. 410 Sco3

15142 HAMILTON, G. R. Butterflies in France. Country Life [London] 108:1521. Nov.3,1950. 80 C83

15143 HARDWICK, D. F. Preparation of slide mounts of lepidopterous genitalia. Canad. Ent. 82:231-235. Nov. 1950. 421 C16

15144 HARPER, G. W. Immigrant Lepidoptera of West Sussex, 1949. Entomologist 83:95-96. Apr.1950. 421 En8



- 15145 HARPER, G. W., and WALLER, W. E. Notes on breeding the first generation of *Polygonia c-album*. Entomologist 83:145-148. July 1950. 421 En8
- 15146 HEDGES, A. V. A note on the life-history of *Madopa salicallis*. Entomologist 83:97-98. May 1950. 421 En8
- 15147 HENSTOCK, H. Experiments with a light trap at Caerwys, North Wales, during the years 1947, 1948 and 1949. Entomologist 83:175-188. Aug. 1950. 421 En8  
Trapping moths.
- 15148 HERBULOT, C. On the presence of middle spurs in the hind tibiae of a male *Scopula* (Lep. Geometridae). Entomologist 83:255. Nov. 1950. 421 En8
- 15149 HESLOP, I. R. P. *Maculinea arion* and *Apatura iris* in Somerset. Entomologist 83:20-21. Jan. 1950. 421 En8
- 15150 HESLOP, I. R. P. *Vanessa cardui* Linn. in south-western Nigeria. Entomologist 83:124. June 1950. 421 En8
- 15151 HESLOP HARRISON, J. W. Immigrant Lepidoptera in the Scottish Western Isles in 1949. Entomologist 83:70-71. Mar. 1950. 421 En8
- 15152 HESLOP HARRISON, J. W. Lepidoptera in the Outer Hebrides in 1950. Entomologist 83:241-245. Nov. 1950. 421 En8
- 15153 HOFFMEYER, S. Problems in Danish Macrolepidoptera. Entomologist 83:193-198. Sept. 1950. 421 En8
- 15154 HOLMES, J. W. O. A pale variety of *Lycaena phlaeas* of genetic origin, and the effect of light thereon. Entomologist 83:90-91. Apr. 1950. 421 En8
- 15155 HUGGINS, H. C. Migrant Lepidoptera in 1949. Entomologist 83:88-89. Apr. 1950. 421 En8
- 15156 HUGGINS, H. C. The pine hawk (*Hylotus pinastri*). Nat. Lover 7:382-385. Sept. 1950. 410 N218
- 15157 HUGGINS, H. C. *Sterrhia muricata* Hufnagel in Ireland. Entomologist 83:234-235. Oct. 1950. 421 En8
- 15158 IVANOVITCH, V. Contribution à l'étude de *Pyrausta nubilalis* HB. (In Serbian.) Yugoslavia. Min. Poljoprivrede. Radovi Poljoprivrednih Naučno-Istraživačkih Ustanova 1:199-208. 1949. 21.5 Y93  
French summary.
- 15159 JACOBSON, L. A., BLAKELEY, P. E., and FARSTAD, C. W. Observations on feeding habits of first-instar larvae of the pale western cutworm, *Agrotis orthogonia* Morr. (Lepidoptera: Phalaenidae). Canad. Ent. 82:181-185. Sept. 1950. 421 C16
- 15160 KÖNIG. Ergebnisse und erfahrungen der herbstbestäubung gegen den kiefernspinner (*Dendrolimus pini*) und planung der frühjahrsbestäubung. Deut. Landwirt. Gesell. Arb. (n.s.):5:26-280. 1949. 18 D48
- 15161 KOZHANCHIKOV, I. V. Peculiarities of wintering and diapause of the gypsy moth (*Ocneria* [i.e. *Porthetria*] dispar). (In Russian.) Akad. Nauk SSSR. Dok 73:605-607. July 21, 1950. 511 P444A
- 15162 KRUEL, W. Das auftreten der nonne [*Lymantria monacha*] im kieferngebiete der Ostzone. Deut. Landwirt. Gesell. Arb. (n.s.):5:246-252. 1949. 18 D48
- 15163 MCDONALD, R. Sugestiones para el control del gusano rosado del algodón [*Pectinophora gossypiella*]. Agr. Lagunero 4(44):5-8. Sept./Oct. 1950. 8 Ag824
- 15164 MCGUFFIN, W. C. Descriptions of larvae of forest insects. *Plagodis*, *Anagoga*, *Hyperetis* (Lepidoptera: Geometridae). Canad. Ent. 82:205-210. Oct. 1950. 421 C16
- 15165 MEEUSE, A. D. J. Mottenbestrijding en chemie [Protection against clothes moths and chemistry]. Netherlands. Vezellnst. T. N. O. Pam. 25,35 p. 1950. 304.9 N382  
English summary.
- 15166 MONCRIEFF, R. W. Anomalous results of moth-proofing tests. Nature [London] 166:659. Oct. 14, 1950. 472 N21  
On fabrics.
- 15167 MORRELL, R. Life-history of *Tanaecia pelea* F. Entomologist 83:189-190. Aug. 1950. 421 En8
- 15168 MORRIS, D. S. Codling moth [*Carpocapsa pomonella*], light-brown apple moth [*Tortrix postvittana*] and orchard mites; control experiments in the Goulburn Valley. Victoria. Dept. Agr. J. 48:378-382. Aug. 1950. 23 V66J
- 15169 MUNROE, E. The generic positions of some North American species commonly referred to *Pyrausta* Schrank (Lepidoptera: Pyralidae). Canad. Ent. 82:217-231. Ref. Nov. 1950. 421 C16  
With particular reference to *Blepharomastix*, *Palpita*, *Udea*, *Mimophobeton* n.g., *Polygrammodes*, *Sameodes*, *Mecyna*, and *Macrobotsys*.
- 15170 MUSPRATT, V. M. The behaviour of *Collas crocea* at St. Jean-de-Luz in winter. Entomologist 83:217-224. Oct. 1950. 421 En8
- 15171 MUSPRATT, V. M. A new ready-made moth trap. Entomologist 83:56-57. Mar. 1950. 421 En8  
Collecting moths on *Gentiana* spp.
- 15172 MUSPRATT, V. M. A plant that traps the humming-bird hawkmoth [*Macroglossum stellatarum*]. Entomologist 83:71. Mar. 1950. 421 En8  
With note by N. D. Riley, p. 72.  
*Araujia sericifera*.
- 15173 NEWMAN, L. H. Further notes on the 1st generation of *Polygonia c-album*. Entomologist 83:230. Oct. 1950. 421 En8
- 15174 NEWTON, J. Macrolepidoptera in Tetbury, Gloucestershire, 1949. Entomologist 83:28-30. Feb. 1950. 421 En8
- 15175 THE 1950 season. Entomologist 83:258-261. Nov. 1950. 421 En8  
Butterfly collecting notes and observations from various parts of England, by J. A. Thompson, G. E. Hyde, A. A. W. Buckstone, J. E. H. Blackie, and J. Friedlein.
- 15176 OLIVER, G. B. *Collas crocea*: winter rearing. Entomologist 83:188-189. Aug. 1950. 421 En8
- 15177 PARKS, T. H. Corn borer [*Pyrausta nubilalis*] threat? Didn't live up to advance billing this year, but there are plenty of borers for "seed stock." Ohio Farmer 206(9):16,39. Nov. 4, 1950. 6 Oh3
- 15178 PICARD, J. Hesperidae du Liberia collectés par P. L. Dekeyser et B. Holas. Inst. Franç. d'Afrique Noire. B. 12:625-628. July 1950. 515 D14
- 15179 PRIDEAUX, R. M. Late appearance of *Argynnis paphia*. Entomologist 83:69-70. Mar. 1950. 421 En8
- 15180 RILEY, N. D. The Rothschild-Cockayne-Zettlewell collection of British Lepidoptera. Entomologist 83:19-20. Jan. 1950. 421 En8  
In British Museum.
- 15181 ROSELLA, E. Pour avoir de beaux poireaux combattez d'urgence la teigne ou ver. Réveil Agr. 59:311. Oct. 15, 1950. 14 R322  
*Acrolepia assectella* (?).
- 15182 RUI, D. Should we modify the control of the apple worm [*Carpocapsa pomonella*]?. (In Italian.) Humus 6(8):24-26. Aug. 1950. 16 H88
- 15183 SCULTETUS, H. R. Schmetterlinge auf wanderschaft. Orion 5:709-710. Sept. 1950. 474 Or4
- 15184 SEVASTOPULO, D. G. Field notes from East Africa. 3-4. Entomologist 83:10-13, 209-211. Jan.-Sept. 1950. 421 En8  
Chiefly on Lepidoptera.
- 15185 SEVASTOPULO, D. G. The genetics of East African Lepidoptera. II. Entomologist 83:256-258. Nov. 1950. 421 En8  
Notes on *Orgyia basalis* and its forms.
- 15186 SMITH, D. Butterflies in Corsica. Entomologist 83:207-208. Sept. 1950. 421 En8
- 15187 STALLWOOD, B. R. The relative abundance of butterflies in S. Middlesex and N. Surrey in 1946 to 1948. Entomologist 83:140-141. June 1950. 421 En8
- 15188 STROYAN, H. L. G. *Lysandra bellargus* in Herts. Entomologist 83:21. Jan. 1950. 421 En8
- 15189 STROYAN, H. L. G. Spiders and *Melitaea athalia*. Entomologist 83:231-233. Oct. 1950. 421 En8
- 15190 TEMPLE, V. *Vanessa atalanta* feeding on "silene flux." Entomologist 83:93. Apr. 1950. 421 En8
- 15191 THIELMANN, K. Giftnebel zur schädlingsbekämpfung; einsatz von nebelgeräten zur bekämpfung der nonne [*Lymantria monacha*] im Forstamt weiden. Holz-Zentbl. 76:1187. Sept. 12, 1950. 99.81 H742
- 15192 TURNER, H. J. The British Noctuae [i.e. Phalaenidae] and their varieties. IV. Ent. Rec. & J. Variation 62(10, sup.):93-94. Oct. 1950. 421 En89



15193 VALLETTA, A. Moths taken in Malta at light, 1948-1949. *Ent. Mon. Mag.* 86:306-308. Oct. 1950. 421 En86

15194 VALLETTA, A. Recent additions to the known Lepidoptera of the Maltese Islands (Heterocera). *Entomologist* 83:252-254. Nov. 1950. 421 En8

15195 VIETTE, P. Contribution à l'étude des Hepialidae. 19. *Ent. Tidskr.* 71:144-146. Ref. 1950. 421 En891  
Synonymy in Dalaca; Blanchardina n.g.

15196 WAKELY, SIR L. Some further Caernarvonshire records. *Entomologist* 83:68-69. Mar. 1950. 421 En8

Lepidoptera.

15197 WAKELY, S. Euenamidophorus (Platyptilia) rhododactyla Schiffermüller. *Entomologist* 83:236-237. Oct. 1950. 421 En8

15198 WARREN, B. C. S. Supplementary data on problems relating to erebid butterflies. 1-3. *Entomologist* 83:225-230. Oct. 1950. 421 En8

1. A further record of *Erebia tyndarus* rondoulet occurring with *E. cassioides* murina; 2. The identity of *Erebia hippocoon* Niesiolowski and *E. dromulus* Niesiolowski nec Staudinger; 3. The Caucasian race of *E. cassioides*.

15199 WELLINGTON, W. G., and others. Physical and biological indicators of the development of outbreaks of the spruce budworm, *Choristoneura fumiferana* (Clem.) (Lepidoptera: Tortricidae). *Canad. J. Res. Sect. D, Zool.* 31:308-331. Ref. Dec. 1950. 470 C16D

J. J. Fettes, K. B. Turner, and R. M. Belyea, joint authors.

15200 WOLCOTT, G. N. A quintessence of sensitivity: the coffee leaf-miner [*Leucoptera coffeella*]. *Puerto Rico U. J. Agr.* 31:215-219. July 1954, pub. 1950.

15201 YODEN, G. H. *Hadena compta* at Dover (Lep.: Noctuidae). *Entomologist* 83:121-122. June 1950. 421 En8

15202 YODEN, G. H. *Hadena compta* Fabricius in 1949. *Entomologist* 83:166-167. July 1950. 421 En8

See also Sericulture and the Silkworm.

## ORTHOPTERA

15203 BARRAU, J. La lutte contre les sauterelles en 1950 sur la côte ouest de la Nouvelle-Calédonie. *Rev. Agr. de la Nouvelle-Calédonie (n.s.)* 1(7/8):4-5. July/Aug. 1950. 25 R322

15204 BEY-BIENKO, G. I. A. Orthoptera fauna of the deserts of Middle Asia and problems in studying it. (In Russian.) In Pavlovskiy, E. N., and Ilin, M. M., eds. *Pustyni SSSR i ikh osvoenie*, p. 130-139. Ref. Moskva, Akademika Nauk SSSR, 1950. 409 P282

15205 BLETON, C. Huitième plaie d'Égypte—les invasions de criquets pèlerins au Maroc. *Agriculture [Paris]* 14:265-268. Sept. 1950. 14 Ag823  
*Schistocerca gregaria*.

15206 CHANG, P. I. The action of DDT on the Golgi bodies in insects nervous tissue. *Urbana*, 1949. 4 p. 423 C363

Experiments with *Periplaneta americana* and *Apis mellifera*.

Abstract of thesis—University of Illinois.

15207 COHIC, F. Les sauterelles migratrices biologie et moyens de lutte. *Rev. Agr. de la Nouvelle-Calédonie (n.s.)* 1(7/8):2-4. July/Aug. 1950. 25 R322

15208 FISCHETTI, D. L. Lucha contra la "tucura" [*Dichroplus maculipennis*]. *Chacra* 20(239):62-63. Oct. 1950. 9 C34

15209 GRAFFAR, M., and MERTENS, S. Le rôle des blattes [*Blattella germanica*] dans la transmission des salmonelloses. *Inst. Pasteur Ann.* 79:654-660. Ref. Nov. 1950. 448.3 An75

15210 KEVAN, D. K. M. The grasshopper fauna of a small East African swamp. *Ent. Mon. Mag.* 86:316-319. Nov. 1950. 421 En86

15211 KOZHANCHIKOV, I. V. Fundamental features of food specialization of Asiatic locust [*Locusta migratoria*]. (In Russian.) *Akad. Nauk SSSR. Izv. Ser. Biol.* 1950(4):73-86. Ref. July/Aug. 1950. 511 Sa2B

15212 MATTHEE, J. J. The egg of the brown locust [*Locustana pardalina*]. *Farming So. Africa* 25:255-257. Aug. 1950. 24 So842

15213 MONTANA. STATE COLLEGE. DEPT. OF ZOOLOGY AND ENTOMOLOGY. Proposed range grasshopper research program. *Mont. Stockgrower* 22(10):28, 30, 32-34. Oct. 15, 1950. 49 M76

15214 PETRI, L. H. Life cycle of *Physaloptera rara* Hall and Wigdor, 1918 (Nematoda: Spiruroidae) with the cockroach, *Blattella germanica*, serving as the intermediate host. *Kans. Acad. Sci. Trans.* 53:331-337. Sept. 1950. 500 K13T

15215 PRUTHI, H. S. Outbreak of a fresh cycle of the desert locust [*Schistocerca gregaria*]. *J. Sci. & Indus. Res.* 9:358-363. Oct. 1950. 475 J82  
India.

15216 SELLIER, R. Sur le retournement des ptérophères chez les Orthoptères Gryllides. *Paris. Acad. des Sci. Compt. Rend.* 231:923-924. Oct. 30, 1950. 505 P21

15217 SHUMAKOV, E. M., and IAKHIMOVICH, L. A. Peculiarities of embryonic development of *Locusta migratoria* L. in connection with some environmental conditions. (In Russian.) *Zool. Zhur.* 29:327-340. Ref. July/Aug. 1950. 410 R92

15218 TEMPLE, V. Notes on Orthoptera in my garden during the summer of 1949. *Entomologist* 83:82-83. Apr. 1950. 421 En8  
England.

## SERICULTURE AND THE SILKWORM

15219 GODED, L. La sericiculture en Espagne. *Cooperación [Madrid]* 103:12-15. Sept. 1950. 280.28 C7875

15220 HOLEC, E. Vom seidenkokon zum seidenfaden. *Osterr. Kleintierzüchter* 1950:823-824. (To be cont.) Sept. 1950. 49 Oe7

15221 HOW SILK is made. *Apparel Mfr.* 27(11):54-55. Nov. 1950. 319.8 Ap4

15222 OCAMPO, A. La industria de la seda. *Rev. Agropecuaria del Perú* 1(2):26-32. Apr./June 1950. 9.8 R322

15223 OGILVIE, SIR H. Surgical stitching; the surgeon's needlework is in many ways similar to that of the housewife, but it requires special skills because of the properties of the material. *Sci. Amer.* 183(5):44-47. Nov. 1950. 470 Sc125

Suture materials, including silk and silk-worm gut.

## SMALLER ORDERS

15224 CARRIKER, M. A., JR. Studies in Neotropical Mallophaga. VI. Suborder "Ischnocera", family "Philopteridae". *Rev. Bras. de Biol.* 10:163-188. July 1950. 442.8 R326

New species in Austrophilopterus.

15225 CHAUDONNET, J. La morphologie céphalique de *Thermobia domestica* (Packard) (Insecte aptérygote thysanoure). 1. *Ann. des Sci. Nat., Zool. et Biol. Anim.* (ser. 11) 12:145-256. 1950. 410 An7

15226 COOK, C. Notes on a collection of dragonflies (Odonata) from Nova Scotia. *Canad. Ent.* 82:190-194. Ref. Sept. 1950. 421 C16

15227 CORBET, P. S. Some observations on *Cerision tenellum* (Villers) (Odonata). *Entomologist* 83:27. Feb. 1950. 421 En8

15228 FRASER, F. C. A note on the correct origin of the name *Libellula* employed in Odonata. *Ent. Mon. Mag.* 86:311-312. Oct. 1950. 421 En86

15229 FRASER, F. C. Report on a collection of Odonata from Liberia. *Inst. Franç. d'Afrique Noire. B.* 12:611-624. July 1950. 515 D14

15230 GOODMAN, A. Life among the termites. *Discovery* 11:323-325. Oct. 1950. 472 D63

15231 GRASSE, P. P., and NOIROT, C. Documents sur la biologie de l'Odontotermes magdalenae n. sp. *Ann. des Sci. Nat., Zool. et Biol. Anim.* (ser. 11) 12:117-143. 1950. 410 An7

15232 HOPKINS, G. H. E. An awkward problem in flea nomenclature. *Entomologist* 83:201-202. Sept. 1950. 421 En8

15233 HOPKINS, G. H. E. The identity of two species described by Kolenati in 1859. *Entomologist* 83:162-163. July 1950. 421 En8  
*Ctenophthalmus* spp.



- 15234 HOPKINS, G. H. E. The type species of *Trichopsylla Kolenati*: a further note. *Entomologist* 83:31-33. Feb.1950. 421 En8  
Probably *Chaetopsylla* sp.
- 15235 HOUTMAN, G. On dragon fly damage to fruit tree boughs. (In Dutch.) *Fruiteelt* 40:718-720. Sept.21, 1950. 86 N28  
*Lestes viridis*.
- 15236 KIMMINS, D. E. The type-species of certain genera in the Trichoptera. *Entomologist* 83:58-60. Mar. 1950. 421 En8
- 15237 LACEY, J. J. Rotenone has two jobs. *Wis. Coop. Wool Growers News* 16(5):4. Dec.1950. 280.28 W882  
Dusting sheep for control of lice and ticks.
- 15238 LONGFIELD, C. Notes on the British Odonata in 1949. *Entomologist* 83:125-127. June 1950. 421 En8
- 15239 MACGREGOR, W. D. Termites, soil and vegetation. *Forestry Abs.* 12:3-8. Ref. Sept.1950. 241.01 Im7
- 15240 MCGUFFIN, W. C. A note on *Collembola*. *Canad. Ent.* 82:196. Sept.1950. 421 C16
- 15241 MANI, M. S., and RAO, S. N. A remarkable example of maternal solicitude in a thrips from India. *Cur. Sci.* 19:217. July 1950. 475 Sci23  
*Gigantothrips elegans*.
- 15242 O'FARRELL, A. F. The J. J. F. X. King collection of British Odonata. *Entomologist* 83:14-18. Jan. 1950. 421 En8
- 15243 ROBB, T. R. Joe, Bill, Fred believe in signs—do you? *Wyo. Stockman-Farmer* 56(10, i.e. 11):5-6. Nov. 1950. 6 W992  
Control of cattle lice.
- 15244 SAVARY, A. La lutte contre les forficules ou "perce-oreilles" [Forficula auricularia]. *Rev. Romande d'Agr., de Vitic. et d'Arbor.* 6:66-68. Sept.1950. 17 J82A
- 15245 SCHALLER, F. Biologische beobachtungen an humusbildenden bodentieren, insbesondere an Collembolen. *Zool. Jahrb., Abt. f. System., Geog. u. Biol. Tiere* 78:506-525. Ref. 1950. 410 Z751S
- 15246 SNYDER, T. E. Control of nonsubterranean termites. U. S. D. A. Farmers' B. 2018, 16 p. Sept.1950. 1 Ag84F
- 15247 TRAUB, K. *Sigmactenus*, a new genus of flea from the Philippines. *Wash. Acad. Sci. J.* 40:371-378. Nov.15,1950. 500 W276J
- 15248 VIADO, G. B. Termite control. *Agr. & Indus. Life* 12(10):3,39. Oct.1950. 25 Ag8
- 15249 WILCOX, J., and HOWLAND, A. F. New insecticides for control of onion thrips [*Thrips tabaci*] in Southern California. *J. Econ. Ent.* 43:690-693. Ref. Oct. 1950. 421 J822
- 15250 WOLCOTT, G. N. Benzene hexachloride as a termite repellent. *Puerto Rico U. J. Agr.* 31:224-225. July 1947, pub.1950. 8 P832J
- 15251 WORTH, C. B. House mice and commensal rats in relation to the dissemination of rat fleas [*Xenopsylla cheopis*]. *Amer. J. Trop. Med.* 30:917-920. Nov. 1950. 448.8 Am33
- 15256 HIMBEECK, C. VAN. La ferme de l'avenir. *Rev. de l'Agr.* 3:816-831. Aug.1950. 13 R322  
English summary.  
Layouts and designs.
- 15257 IVANOVICH, A. Construction of collective farm [fish] ponds. (In Russian.) *Rybnoe Khoz.* 26(9):42-43. Sept.1950. 414.8 R962
- 15258 KRISTIANSEN, T. W. The Danish farms, their history and architecture. *Dan. Foreign Off. J.* 1950(3): 21-24. July/Sept.1950. 286.8 D22
- 15259 LEVASHOV, V. A. Prudovoe rybovodstvo v kolkhoze [Pond fish culture on collective farms]. *Kirov, Kirovskoe Obl. Gos. Izd-vo*, 1950. 45 p. 414 L57
- 15260 LOCH, R. Unfallgeschehen und unfallgefahren im silobetrieb. *Müllerei* 3:619-620. Sept.23, 1950. 298.8 M91
- 15261 NEW ZEALAND. DEPT. OF LANDS AND SURVEY. Annual report on surveys, 1949/50. *Wellington*, 1950. 16 p. 271.2 L23
- 15262 RADKEVICH, A. Construction of roads on collective farms. (In Russian.) *Sel'sk. Stroitel'* 5(4):20-21. July/Aug.1950. 296.28 Se4
- 15263 ROWBOTHAM, W. R. Farm accidents. *Canad. Tractor Farming* 32:20. 1950. 58.8 C162
- 15264 RUBENSTEIN, S. Has the engineer a future in the kibbutz? *Pioneer* 1(10):8-9. Aug./Sept.1950. 282.28 P85
- 15265 RUSH, J. D. Analysis of State legislation authorizing rural fire protection. *Washington, U. S. Bur. Agr. Econ.*, 1950. 7 p. 1.941 A2R89  
Address, Farm Fire Committee, National Fire Prevention Association, St. Paul, Nov. 14, 1950.
- 15266 RYAN, J. M. Dakota farmstead improvement. *Dakota Farmer* 70(23):7. Dec.2, 1950. 6 D14
- 15267 VINCENT, D. H. How to waterproof your barnyard. *Successful Farming* 48(10):174-175. Oct.1950. 6 Sul2
- 15268 WILLIAMSON, T. W. Water supplies, fences and roads. In *Gt. Brit. Ministry of Agriculture and Fisheries. Agricultural Land Serv. Fixed equipment of the farm*. p.55-63. 1950. 296 G7932
- 15269 WINGATE, H. T. Most fires on farms are result of hazards that can be removed. *Better Farms* 10(4):6,9. Oct.1950. 6 B462

## FARM MACHINES AND EQUIPMENT

- 15270 ACOCK, A. M. Actualidad de la mecanización agrícola en America. *Bolsa de Com., Rosario. Rev.* 38 (930):9-13. Oct.15,1950. 287 R71
- 15271 ARKEMA, P. W. B. Standardization of agricultural implements. (In Dutch.) *Plattelands-Post* 6 (39):4. Oct.7,1950. 12 P69
- 15272 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Agricultural implements. *Austral. Bur. Census & Statis. Mfg. Indus.* 11,8 p. July 25,1950. 271 Au72Ma
- 15273 BARBOSA, I. A few economical aspects of the mechanization of agriculture in Angola. (In Portuguese.) *Agron. Angolana* 3:73-93. 1950. 24 Ag83  
English summary.
- 15274 BERTHAULT, P. Les enseignements pour l'Afrique du Nord de l'agriculture d'Eure-et-Loir; "jusqu'à quel point faut-il motoriser les fermes?" *Rev. Agr. de l'Afrique du Nord* 48:639-643. Sept.1,1950. 80 R328
- 15275 BLANCHARD, M. La motoculture à l'épreuve; ce qu'a été la démonstration de Senlis. *Monit. de la Mécan. Rur.* 43:325,327. Oct.1950. 58.8 M74
- 15276 BLUME, G. Technische landhilfe; betrachtungen über wirtschaftlichen einsatz von landmaschinen. *Dreschen u. Pflügen* 3(9):8-9. Sept.15,1950. 58.8 D81  
Austria.
- 15277 BONDON, J. La motorisation de notre agriculture et l'exposition de Senlis. *Agr. Prat.* 114:493-495. Nov.1950. 14 J82
- 15278 BONDON, J. A propos de la XXVIIe Exposition Internationale de Motoculture. *Culture* 23:4-6. Oct.1950. 14 C894
- 15279 BOTTOMS, D. N. It's farm mechanics in Alabama! *Agr. Educ. Mag.* 23:117-118. Nov.1950. 275.8 Ag8  
Instruction.
- 15280 BOTTOM, J. C. More power on the farm. *Nation's Agr.* 26:7-9. Jan.1951. 280.82 B89  
Mechanization.

## AGRICULTURAL ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

## GENERAL AND MISCELLANEOUS

- 15252 ATWATER, J. Safety for the man on the farm. *East. Milk Prod.* 26(11):8. Nov.1950. 280.28 Sh3
- 15253 BEELER, M. N. Off of gravel onto blacktop. *Capper's Farmer* 61(12):16,59. Dec.1950. 6 M693  
Rural roads in Indiana.
- 15254 BRUCKNER, L. 1000 landwirtschaftliche unfälle im monat. *Österr. Bauernbündler* 6(45):6. Nov.11,1950. 19 Os7
- 15255 DOGGETT, D. How to build small lakes and farm ponds. 2-3. *Outdoor Ind.* 17(11):4-5,17;(12):4-5,22. Nov.-Dec.1950. 279.8 Ou82



15281 BRASCHI, G. Mechanization and labor in agriculture. (In Italian.) Agr. Ital. 1:442-443. Sept.15, 1950. 16 Ag822

English summary.

15282 BRIDGER, R. Does farm mechanization make for progress? Health & Soil 1950:35-37. Summer/Autumn 1950. 56.8 H34

15283 BROCK, H. A. Mechanical "monkeys" eliminate ladders. Farm Electrification 4(5):29-30. Sept./Oct. 1950. 335.8 F224

Includes description of an "orchard monkey."

15284 BROUGHTON, A. How to save steps during chore time; grain chutes, water pipes and feed carts and similar gadgets can cut chore time and take some strain from aching back. Wis. Agr. & Farmer 77(20):4. Oct. 21, 1950. 6 W751

15285 CASHMORE, W. H. Future problems in farm mechanization. Engineering 170:317-318. Oct.27, 1950. 290.8 En322

Great Britain.

15286 CASHMORE, W. H. Survey of power on the land. London Corn C. 107(91):11; (93):11. (Cont.) Nov.13,20,1950. 286.81 L84

Equipment.

15287 COMBAL, H. Les journées de motoculture d'Alger. Cour. Agr. 15(18):1-2. Aug.29, 1950. 24 C83

15288 CORSTIAENSEN, W. P. M. Mechanization in America and in our country. (In Dutch.) Overijsselsch Landtbl. 32(1574):4. Oct.14, 1950. 12 Ov2

Also in Drents Landtbl. 31(40):6. Oct.14, 1950. 12 D812

15289 CROSBY, J., and KLEIN, J. New cotton mechanization developments look good. Calif. Farmer, North. Ed. 193:489,496. Dec.2, 1950. 6 C126

15290 CROW, J. Stanhay loader gets into tight corners in the yard. Agr. Mach. J. 4(11):22. Nov.1950. 58.8 Ag86

15291 DALMASSO, G. International manifestations of agricultural mechanics. (In Italian.) Colt. e Gior. Vinic. Ital. 96:263-264. Oct.15, 1950. 16 C72

15292 DALMASSO, G. Mechanized Piedmont viticulture. (In Italian.) Cron. Econ. 89:13-15. Sept.15, 1950. 280.8 C882

15293 DENCKER, C. H. Mechanisierung der amerikanischen und der deutschen Landwirtschaft. Berlin, Parey, 1950. 98 p. 58 P412Me

15294 DOANE, D. H. Stretching your labor. Breeder's Gaz. 115(12):5,16. Dec.1950. 49 B74

Labor saving equipment.

15295 DUMONT, R. Les difficultés de la mécanisation de l'agriculture africaine autochtone. Marchés Colon. 6:2571,2573-2574. Oct.28, 1950. 286.8 M33

15296 ENGELBERTINK, B. A. A. Observations on mechanization in agriculture. (In Dutch.) Boer en Tuinder 4(189):1. Sept.2, 1950. 12 B632

15297 ENTE PUGLIA E LUCANIA. Aspects of mechanization in the regions of Apulia and Lucania. (In Italian.) Agr. Ital. 1:447-449. Sept.15, 1950. 16 Ag822

English summary.

15298 FARINA, A. Centers of mechanization or private renting? (In Italian.) Agr. Ital. 1:530-532. Oct.15, 1950. 16 Ag822

15299 FITZGERALD, O. A. Inventin'est farmers you ever saw. Wash. Farmer 75:793,824. Nov.2, 1950. 6 R151

Farm equipment.

15300 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. ECONOMICS, MARKETING AND STATISTICS DIV. Progress and economic problems in farm mechanization, prepared by A. M. Acock. Washington, 1950. 87 p. 58 F733

Mechanization

15301 FUFAYEV, A. M. Mechanization of [livestock] farms at Sverdlov Kolkhoz [in Aramil District, Sverdlov Region]. (In Russian.) Sovetskii. Zhivotnovod. 12(7):84-86. July 1950. 49 So71

15302 GAFANOVICH, A. A. V-belt transmission in farm machines. (In Russian.) Sel'khoz mashina 1950(8):10-14. Aug.1950. 58.8 Se42

Designs and calculations.

15303 GEMEREN, P. V. News for the vegetable grower. (In Dutch.) Boer en Tuinder 4(189):5. Sept.2, 1950. 12 B632

Equipment.

15304 GEMEREN, P. V. The 1950 fair. (In Dutch.) Groenten en Fruit 6:194. Sept.21, 1950. 80 G89

Equipment.

15305 GLAZEBROOK, J. H. Large-scale demonstration of horticultural machinery. Orchardist New Zeal. 23(7):5-6,9,11. Aug.7, 1950. 80 Or19

15306 GLERUM, J. C. Machinery for corn culture. (In Dutch.) Boer en Tuinder 4(189):7. Sept.2, 1950. 12 B632

15307 GREENE, P. H. All this, and cobweb catchers too! Calif. Citrog. 36:49. Dec.1950. 80 C125

Equipment.

15308 HANSEN, K. Machinery exhibitions. (In Danish.) Dansk Landbr. 69:433-435. Aug.24, 1950. 280.28 V91

15309 HARKINK, J. The Dutch agricultural equipment industry. (In Dutch.) Nieuwe Veldbode 17:40. Oct.19, 1950. 12 V542N

15310 HOOGLAND, E. J. A. Equipment for modern pasture farming. (In Dutch.) Boer en Tuinder 4(189):4. Sept.2, 1950. 12 B632

15311 HOOGLAND, E. J. A. Impressions from the agricultural fair 1950. (In Dutch.) Drents Landtbl. 31(37):6; (38):6. Sept.23-30, 1950. (Cont.) 12 D812

Equipment.

15312 JEBERIN, H. Haus- und hofarbeit und die mechanisierung. Hannoversche Land- u. Forstwirt. Ztg. 103:658-659. July 22, 1950. 18 H194

15313 KASTNER, J. Die pflege der landwirtschaftlichen seilbahnen. Kärntner Bauer 100:309-310. Sept.1, 1950. 19 K14

15314 KAYSER, E. Mechanisierung des bauernhofes, v. 1. Berlin, 1949. 151 p. 58 K184

15315 KLOUGART, A. Motor equipment in the orchard. (In Danish.) Haven 50:132-133. Oct.1950. 80 H29

15316 KUTENITSYN, V. For every machine-tractor station—a platform for checking equipment. (In Russian.) Mashinno-Traktornaya Sta. 10(7):56. July 1950. 58.8 M11

15317 LARDINELLI, G. How to develop agricultural mechanization. (In Italian.) Agr. Venez. 5(19):2. Oct.16-31, 1950. 16 Ag8264

15318 MAYNE, J. E. The small tropical farm and mechanization. World Crops 2:465-468. Nov.1950. 281.8 W892

15319 MEDICI, G. Notes on mechanization of present-day Italian agriculture. (In Italian.) Agr. Ital. 1:440-442. Sept.15, 1950. 16 Ag822

English summary.

15320 MEINDL, G. Gedanken zur gemeinschaftlichen maschinenverwendung. Österr. Bauernbündler 6(44):1-2. Nov.4, 1950. 19 Os7

15321 MERTENS, W., and GORSLER, A. Maschinen-unentbehrliche helfer im kartoffelbau. I-II. Kartoffelbau 1:26-30. (To be cont.) July 1950. 75.8 K145

15322 MIGNOTTE, F. Après l'exposition de motoculture de Senlis. Agriculture [Paris] 14:287-289. Oct.1950. 14 Ag823

15323 MUNIAPPA, G. Mechanisation of agriculture. Mysore Agr. Calendar 1949/50:21-23. 1949. 34.2 M99

15324 PANUKOV, V. Flexible connections for wide equipment assemblies. (In Russian.) Mashinno-Traktornaya Sta. 10(7):54-55. July 1950. 58.8 M11

15325 RAGONDET, G. L. Essai d'estimation de l'évolution annuelle de la mécanisation des travaux agricoles. Ann. de Gembloux 56:180-192. Fourth Q.1950. 13 G28

15326 REHRL, K. Landmaschinen-neuheiten auf der Wiener Herbstmesse 1950. Pflug 3:202-204. Oct. 1950. 19 P48

15327 RUMI, J. Notas sobre mecanización rural. Bolsa de Com., Rosario. Rev. 38(829):21-25. Sept.30, 1950. 287 R71

15328 SCHERUGA. Kritische beurteilung von landmaschinen. Oberösterr. Landwirtsch. 22(37):5. Sept.13, 1950. 19 Ob23

15329 SCHEWCZIK, R. Erziehung zum technischen denken. Österr. Landtech. 3:153-154. June 1950. 58.8 L236

15330 SERS, J. La formation des mécaniciens et artisans ruraux. Rustica 23:896-897. Oct.22, 1950. 14 R92



- 15331 SMITH, P. B. Demonstrations give impressive proof of successful spring mechanization. Through Leaves 38(4):22-27. July/Aug.1950. 66.8 T41  
Sugar beet growing.
- 15332 SNEEK, R. L. V. D. The mechanization of grassland farming. (In Dutch.) Nieuwe Veldbode 17:43. Oct.19,1950. 12 V542N
- 15333 STEFANELLI, G. Development of mechanization in agriculture. (In Italian.) Humus 6(8):10-14. Aug. 1950. 16 H88  
Italy.
- 15334 TAWNEY, J. J. From hoe to tractor; the machine age comes to Africa in a single stride. Field 196:583. Oct.7,1950. 10 F45  
Tanganyika.
- 15335 TENEMBAUM, J. L. Concepto económico sobre mecanización agrícola bajo su aspecto funcional. Bolsa de Cereales, Buenos Aires. Rev. 37(1970):22,24,26, 28. (To be cont.) Nov.2,1950. 287 B866
- 15336 TURNER, H. S. The Leonard farm engine. Iron-Men Album Mag. 5(2):8-9. Nov./Dec.1950. 58.8 F2293
- 15337 VALENTINE, G. E. Power for Okanagan orchards. Country Guide 69(10):10,50-51. Oct.1950. 7 G76  
Mechanization of fruit farming, British Columbia.
- 15338 VLIET, N. VAN. La mecanización de la agricultura y las cooperativas explotadoras de herramientas agrícolas en Holanda. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(12):12-19. June 1950 9 A35
- 15339 WERNEBURG. Kauf von maschinen und geräten auf abzählung. Landwirtbl. Weser-Ems 97:882-883. Oct.19,1950. 13 L2345
- 15340 WEST, W. J. Achievements in farm mechanisation. Engineering 170:388-391. Nov.17,1950. 290.8 En322
- 15341 WHITLOCK, R. Mechanising a farm. Field 196:451-452. Sept.16,1950. 10 F45
- 15342 WIDT, R. A. DE. Economic aspects of the utilization of agricultural equipment. (In Dutch.) Nieuwe Veldbode 17:44-45. Oct.19,1950. 12 V542N
- 15343 ZABELIN, P., and KRYLOV, M. A scraper conveyer for bulk products. (In Russian.) Mfasnafa Indus. SSSR. 21(2):56-58. Mar./Apr.1950. 50.8 M58
- Animal Husbandry Equipment**
- 15344 ALBRECHT, R. Pipe-line milker; it fits in well with special loafing barn. Prairie Farmer, Gen. Ed. 122(22):22-23. Nov.18,1950. 6 P883
- 15345 ASMUNDSON, V. S. Space and equipment needs of turkeys. Nulaid News 28(5):13. Oct.1950. 47.8 N917
- 15346 BATT, W. G., and WHITTLESTON, W. G. Transparent plastic tubing found unsuitable for milking machines. New Zeal. J. Agr. 81:203-204. Sept.1950. 23 N48J
- 15347 BRUGGINK, H. A. Mechanical milking in Denmark and Sweden. (In Dutch.) Plattelands-Post 6(40):7. Oct.14,1950. 12 P69
- 15348 CANN, D. P. Recent developments in chicken brooders. Grower [Adelaide] 5(3):25,51. Sept.1950. 80 G912
- 15349 COSSETTE, M. Pourquoi le Père Champoux a finalement décidé d'acheter une trayeuse mécanique. B. des Agr. 46(12):10-11. Dec.1950. 7 B872
- 15350 CROSBY, J. Labor savers—the key to higher poultry income. Calif. Farmer, North. Ed. 193:386-387. Oct.21,1950. 6 C126  
New devices and ideas.
- 15351 FLAKE, J. C. Practical observations on milking machine sanitation. Butter, Cheese & Milk Prod. J. 41(12):26-27,37-39. Dec.1950. 286.85 B98Bu
- 15352 GELDOF, W. How does the Bajema milking machine work? (In Dutch.) Drents Landtbl. 31(37):9. Sept.23,1950. 12 D812  
Also in Gelders Landtbl. 13(37):9. Sept.23,1950. 12 G282
- 15353 GRANBERG, W. J. Something different—suspended colony cages. Amer. Poultry J. 81(10):9,35. Oct. 1950. 47.8 Am32
- 15354 HANSARD, S. L., and others. Metabolism units for large animal balance experiments using radioisotopes. (Abs.) J. Anim. Sci. 9:858. Nov.1950. 49 J82  
C. S. Hobbs, C. L. Comar, and M. P. Plumlee, joint authors.
- 15355 HART, F. H. Operation of agitated-air incubators. Agr. Gaz. N. S. Wales 61:490-494. (Cont.) Sept. 1,1950. 23 N472
- 15356 HEYWANG, B. W. Plans for brooder house with shutters. U. S. Bur. Anim. Indus. A.H.D. 131,4 p. June 1950. 1.9 An52Ah
- 15357 HOBBS, C. S., HANSARD, S. L., and BARRICK, E. R. Simplified methods and equipment used in separation of urine from feces eliminated by heifers and by steers. J. Anim. Sci. 9:565-570. Nov.1950. 49 J82  
Design of metabolism stall and equipment.
- 15358 HOWSE, A. C. Device for holding fowls during blood testing. New Zeal. J. Agr. 81:223. Sept.1950. 23 N48J
- 15359 LYNCH, M. R., and PARKIN, I. E. Milking machine care. Pa. State Col. Agr. Ext. L. 134,15 p. Aug. 1950. 275.29 P38L
- 15360 MEISSNER, F. Milking cooperatively in Holland. Hoard's Dairyman 95:908,934. Dec.25,1950. 44.8 H65
- 15361 MORRIS, C. S., and COLEMAN, E. L. The treatment of milking machine clusters by the wet storage method. Gt. Brit. Min. Agr. Agriculture 57:319-321. Oct.1950. 10 G79J
- 15362 PARKIN, I. E. Clogged vacuum lines. Hoard's Dairyman 95:815. Nov.25,1950. 44.8 H65
- 15363 PICKETT, J. Automatic egg gatherer—home made. Calif. Farmer, North. Ed. 193:366-367. Oct.21, 1950. 6 C126
- 15364 POSTMA, J. Cleaning and disinfection of the milking machine in relation to the quality of milk. I-II. (In Dutch.) Alg. Nederland. Zuivelbond. Off. Orgaan 42: 492,501. Oct.11-18,1950. 44.9 AL3
- 15365 RENNER-DREISELEN. Zum problem der melkmaschine. Landwirtbl. Weser-Ems 97:946-948. Nov.9,1950. 13 L2345
- 15366 ROSE, P. D. Is all in order in the shearing shed? (In Afrikaans.) Wolboer 37:12-13. Aug.1950. 45.8 W83  
Equipment.
- 15367 SAMAT, M. Les perchoirs. Réveil Agr. 59: 297-298. Oct.1,1950. 14 R322
- 15368 SMITH, O. J., and SMITH, B. F. Brooder pens for calves. Country Gent. 120(11):33,113. Nov.1950. 6 C833
- 15369 SONGCUAN, M. S. Operating a hot incubator in C.L.A.S. Agr. & Indus. Life 12(10):19,24,33. Oct.1950. 25 Ag8
- 15370 SWINK, E. T. Pig brooders reduce losses. South. Planter 111(11):14-15. Nov.1950. 6 So89
- 15371 TORRENS PASTOR, A. Los salvacrias o defensas de lechones. Balearic Isl. Diputación Prov. B. de Agr. 72:7. Sept.1950. 15 B19  
An apparatus for preventing injuries to young pigs.
- 15372 VITOL, E., and SIMONOVICH, V. Pneumatic conveyance of feed in pig sties. (In Russian.) Mfasnafa Indus. SSSR. 21(3):47-49. May/June 1950. 50.8 M58
- 15373 WINTERS, S. R. Milking machine clinics. Hoard's Dairyman 95:741. Oct. 25,1950. 44.8 H65
- 15374 ZAKHAROV, A., and LIFBOVSKIY, G. Mechanized feed section on a state farm. (In Russian.) Mfasnafa Indus. SSSR. 21(3):42-46. May/June 1950. 50.8 M58  
For preparation and transporting of feed.
- Cultivation and Tillage Equipment**
- 15375 AMARAL, J. B. DE S. Agriculture and its social problems. (In Portuguese.) Soc. Rur. Brasil. Rev. 30(358):22-25. Sept.1950. 9.2 B733  
Problems involved in the importation of hoes for agricultural workers.
- 15376 BRUHN, H. D., and BERGE, O. I. Plows and plowing. Wis. Agr. Col. Ext. Spec. C. 16,8 p. Aug.1950. 275.29 W75S
- 15377 EAST, L. International plowing match and farm equipment display. Canad. Farm Impl. 46(10):9-10. Oct.1950. 58.8 C163
- 15378 ELENEV, A. Cultivators for continuous soil tillage. (In Russian.) Mashinno-Traktornaya Sta. 10(7): 36-39. July 1950. 58.8 M11
- 15379 GEMEREN, P. V. With cultivator and mechanical hoe. (In Dutch.) Groenten en Fruit 6:112-113. Aug. 24,1950. 80 G89



- 15380 GORDON, E. D. Disc blade maintenance; service that will pay dividends. *Power Farming Austral. & New Zeal.* 59(8):47,50. Aug.1950. 58.8 P87
- 15381 HIGGINS, F. H. Chiseling—both agriculturally and economically speaking—is not new! *Impl. Rec.* 47(12):19-20. Nov.1950. 58.8 Im73
- Breaking soil surfaces without turning over furrows.
- 15382 KHOROSHILOV, A. D. Standardization of farm machine disks. (In Russian.) *Sel'khoz mashina* 1950(8):28-30. Aug.1950. 58.8 Se42
- 15383 MINDERHOUD, J. The connecting of plows. (In Dutch.) *Nieuwe Veldbode* 17:45-47. Oct.19,1950. 12 V542N
- 15384 MORGENROTH, E. Die erdschaufel, ein wenig beachtetes gerät für die wiesenpflege. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1270. Sept.14,1950. 18 L2346
- 15385 NILOVSKIĬ, I. Repair of plowshares by the welding method. (In Russian.) *Tekhsociety MTS 11* (29/30):9-14. 1950. 58.8 T233
- 15386 REVIĀKIN, IŪ. IŪ. Investigation of the work of colters. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 11:255-261. 1949. 20 M857
- 15387 REYNOLDS, P. A. Know your cultivator. *Nurseryman & Seedsman* 111:522-523,874-875. Aug.31, Oct.5,1950. 80 N933
- 15388 SAUZE, F. Une nouvelle déchaumeuse à disques. *Monit. Agr.* 3(132):12. Oct.22,1950. 14 M744
- 15389 SEKERA, F. Mängel des zweischichtenpfluges. *Deut. Landwirt. Presse* 73(20):2. Sept.23,1950. 18 D482
- 15390 TODOROVIC, R. Ralitz, the wooden plow. (In Croatian.) *Yugoslavia. Min. Poljoprivrede. Radovi Poljoprivrednih Naučno-Istraživačkih Ustanova* 1:246-257. 1949. 21.5 Y93
- English summary.

#### Fertilizer and Seed Distributors

- 15391 ALEKSEENKO, N. S. Horse-drawn SZM-3 machine for sowing grain and tobacco. (In Russian.) *Sel'khoz mashina* 1950(8):15. Aug.1950. 58.8 Se42
- 15392 BAUMANN, H. Der "eichelhäher." *Allg. Forstz.* 5:406-407. Sept.27,1950. 99.8 AL52
- Acorn planter.
- 15393 DAVIES, C. The mechanization of manure and fertilizer distribution. *Brit. Agr. B.* 3:77-83. Summer 1950. 10 B776
- 15394 FFORDE, P. Standard rows save spanners. *Grower [London]* 34:1049. Nov.18,1950. 286.83 M34
- Seed planting equipment.
- 15395 FRANKEN, W. C. A. C. Turning under of fertilizer in Denmark. (In Dutch.) *Overijsselsch Landtbl.* 32(1573):4. Oct.7,1950. 12 Ov2
- Equipment.
- 15396 KRUGLIĀKOV, M. L. Mashiny dlia vneseniā udobrenii v pochvy [Machines for application of fertilizer to the soil]. *Moskva, Gos. Nauch. - Tekhn. Izd-vo Mashinostroitel'noi Lit-ry*, 1950. 186 p. 58 K93
- 15397 MOHRENWEISER, D. Das pflanzen in der baumschule. *Deut. Baumsch.* 2:169-181. Aug.1,1950. 80 D486
- Equipment.
- 15398 SUNADA, N. A home made tomato planter. *Amer. Farm Youth* 16(6):28. Nov.1950. 6 Am393
- 15399 TIMM, H. Baumrodemaschine "ideal." *Gartenbauwirtschaft [Berlin]* 1950:176-177. Aug.10,1950. 80 G1936
- 15400 VAL'ANOV, D. G. Results of using a pneumatic sowing machine of continuous action. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 11:262-272. 1949. 20 M857

#### Harvesting Equipment

- 15401 ARKĒMA, P. W. B. Beet cutting and harvesting machinery demonstration at Usquert on October 30, 1950. (In Dutch.) *Groninger Landtbl.* 28(44):15-16. Nov.11,1950. 12 G892
- 15402 BESKINE, J. M. Rapid developments likely in forage harvesting machinery. *Agr. Mach. J.* 4(11):25. Nov.1950. 58.8 Ag86
- 15403 BOSOI, E. S. Rapid pinless cutters of harvesting machines. (In Russian.) *Sel'khoz mashina* 1950(8):1-6. Ref. Aug.1950. 58.8 Se42
- 15404 BRENNAN, H. S. Harvesting *Phalaris tuberosa* seed; converted harvester proves successful. *Power Farming Austral. & New Zeal.* 59(8):15,92. Aug.1950. 58.8 P87
- 15405 BRUNER, W. L., JR., and STANLEY, F. E. Mechanical cotton harvesting in the Delta Cotton areas of Louisiana, 1948 and 1949. *La. Rur. Econ.* 12(4):2-3, 7-8. Nov.1950. 281.8 L93
- 15406 DANILEVICH, S. Re-equipment of combines for harvesting foxtail millet. (In Russian.) *Tekhsociety MTS 11*(25/26):10-12. 1950. 58.8 T233
- 15407 DROZDOV, N. I., and others. Mashiny dlia kompleksnoi mekhanizatsii uborki trav v sovkhodzakh [Machines for the complex mechanization of grass harvesting on state farms. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 123 p. 58 D83
- A. V. Gladkov, D. S. Sokolov, and N. V. Melent'ev, joint authors.
- 15408 ELLIS, F. E. Combine or thresher? Which? *Family Herald & Wk. Star* 81(44):17. Nov.2,1950. 7 F21
- Comparative cost of harvesting winter wheat.
- 15409 FINN, H. Combining to beat the weather; how a windrower helped in dealing with the corn on [a] Kent farm. *Farmer & Stock-Breeder* 64:2967. Nov.21,1950. 10 F228
- 15410 GORBUNOV, M. P. Hay stacking and horse-drawn rakes. (In Russian.) *Sotsialist. Zhivotnovod.* 12(6):82-85. June 1950. 49 So71
- 15411 HANSEN, K. A new American hay machine. (In Danish.) *Dansk Landbr.* 69:490-491. Sept.28,1950. 280.28 V91
- 15412 HÖDL, E. Fünf jahre maschinenmäh mit bodensellzug. *Osterr. Landtech.* 3:155-156. June 1950. 58.8 L236
- 15413 IVANOV, A. A. New hay harvesting machines. (In Russian.) *Sotsialist. Zhivotnovod.* 12(6):71-81. June 1950. 49 So71
- 15414 KALVERKAMP, U. D. Traditional potato harvesting equipment demonstration in the Veen colonies. (In Dutch.) *Nieuwe Veldbode* 17:47-48. Oct.19,1950. 12 V542N
- 15415 KROGH, VON. Zur beseitigung der arbeitspitze bei der kartoffelernte. *Landwirtbl. Weser-Ems* 97:832-834. Oct.5,1950. 18 L2345
- Equipment.
- 15416 MANIN, K. V. Adjustment of sheaf-binding attachments. (In Russian.) *Tekhsociety MTS 11*(25/26):13-16. 1950. 58.8 T233
- On flax combines.
- 15417 MERTENS, W. Erntemaschinen auf der DLG-Ausstellung. *Hannoversche Land- u. Forstwirtschaft.* Ztg. 103:641-642. July 15,1950. 18 H194
- 15418 MIGNOTTE, F. Nouvelles arracheuses de pommes de terre. *Agriculture [Paris]* 14:247-249. Sept.1950. 14 Ag823
- 15419 MUSIENKO, K. Regulating the number of cylinder rotations on S-4 combines. (In Russian.) *Mashinno-Traktornaf. Sta.* 10(7):55. July 1950. 58.8 M11
- 15420 NEKRASOV, P. Complex mechanization of grain harvesting and soil tillage. (In Russian.) *Kolkhoz. Proizvodstvo* 10(7):17-18. July 1950. 281.8 K83
- 15421 PANŪKOV, D. N. Mechanization of hay harvesting. (In Russian.) *Sotsialist. Zhivotnovod.* 12(7):12-16. July 1950. 49 So71
- 15422 POLTAVCHENKO, P. S. Mechanized harvesting of vegetables and potatoes in Uzbekistan. (In Russian.) *Sad i Ogorod* 1950(8):11-12. Aug.1950. 80 Sa13
- 15423 POZDENA, L. Die mechanisierung der zucker-rübenernte im mittel- und kleinbetrieb. *Pflug* 3:208-210. Oct.1950. 19 P48
- Austria.
- 15424 SHEVCHENKO, S. Mechanization of straw harvesting and stacking. (In Russian.) *Kolkhoz. Proizvodstvo* 10(7):33-34. July 1950. 281.8 K83
- 15425 SHLYKOV, M. I. L'nouborochnyĭ kombain LK-7 [LK-7 flax harvesting combine]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 205 p. (Uchebniki i Uchebnye Posobiā dlia Podgotovki Sel'skokhoziaistvennykh Kadrov Massovoĭ Kvalifikatsii) 58 Sh62L
- 15426 SHIDELER, F. Greater utilization of beet tops — seed aided by new harvester. *Ark. Val. J.* 2(38):8. Nov.30,1950. 6 Ar46
- 15427 SISLER, G. P. These ideas help move my fruit. *Wash. Farmer* 75:756. Oct.19,1950. 6 R151
- Harvesting equipment.



15428 TAYLOR, C. Mechanical [cotton] picking limited for New Mexico farmers. N. Mex. Agr. Col. Ext. News 30(10):4. Oct. 1950. 275.29 N463Ex

15429 TKACHEV, P. I. A. Utilization of automotive combines for grain harvesting on the experimental plots. (In Russian.) Sovet. Agron. 8(8):33-37. Aug. 1950. 20 8o84

15430 WHITLOCK, R. Forage harvesting display; some promising machine prototypes at Shillingford. Field 198:589. Oct. 7, 1950. 10 F45

15431 ZHUK, I. A., and ZHEGALOV, I. Grain combine of high-production. (In Russian.) Mashinno-Traktornaya Sta. 10(7):29-32. July 1950. 58.8 M11

15432 ZHUK, I. A., and SHEVCHENKO, S. How to assemble properly the harvesting-disking outfits. (In Russian.) Tekhsoveti MTS 11(25/26):1-10. 1950. 58.8 T233

#### Land Clearing Equipment

15433 SCHWAB, G. O. Blast those stumps! Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:70-71. Nov. 1950. 275.28 1o94

Blasting with dynamite.

15434 VUKOLOV, A. Organization and mechanization of work in the mechanical improvement squads of machine-tractor stations. (In Russian.) Mashinno-Traktornaya Sta. 10(7):40-45. July 1950. 58.8 M11

Land clearing equipment.

#### Processing Equipment Used on the Farm

15435 AHRANO, F. W. Careful construction is needed to dry hay right. Fla. Cattleman 15(3):48-50. Dec. 1950. 43.8 F66

15436 BRUNS, J. Der wert der schwedenreuter. Hannoversche Land- u. Forstwirt. Ztg. 103:697. Aug. 5, 1950. 18 H184

15437 BUGBEE, R. Hay finisher in Vermont. Elect. on the Farm 23(9):12. Nov. 1950. 335.8 EL27

Drying.

15438 CASTILLO ROYO, J. DEL. La henificación y sus ventajas. Cult. Mod. 33:327-328. Sept. 1950. 15 C89

15439 COOK, D. New type haydrier designed by Michigan farmer. Farm Electr. 4(5):17-19. Sept./Oct. 1950. 335.8 F224

15440 COULTER, S. T. New spray dryer developed. Minn. Farm & Home Sci. [Minn. Sta.] 8:7. Oct. 1950. 100 M668

Milk drying equipment.

15441 FISCHER, H. Verschiedene häckselmaschinen. Landwirtschaft 1950:238. Aug. 1950. 19 L235

15442 FROLOV, L. Assemblies of motor- and horse-driven grain cleaning machines. (In Russian.) Mashinno-Traktornaya Sta. 10(7):57-60. July 1950. 58.8 M11

15443 GORDON, E. D., and HURST, W. M. Artificial drying of forage crops. U. S. D. A. C. 443, rev., 28 p. Sept. 1950. 1 Ag84C

Revised by L. G. Schoenleber, L. A. Moore, and R. E. Hodgson.

15444 GUERANDE, C. Avantages et profits des graines germées. Rustica 23:812. Sept. 24, 1950. 14 R92

Equipment for germinating grain for poultry feed.

15445 HERBSTHOFER, F. Methoden der arbeitssparung beim dreschen. Österr. Landtech. 3:160-164. June 1950. 58.8 L236

Equipment.

15446 KANZ, N. Erfahrungen mit dem "wandreuter." Kärntner Bauer 100:334-335. Sept. 15, 1950. 19 K14

15447 KULINICH, A. Assembled grain cleaning equipment. (In Russian.) Kolkhoz. Proizvodstvo 10(7):36. July 1950. 281.8 K83

15448 LANGMEAD, P. I. Dried, stored and in pocket. Farmers Wk. [London] 33(17):61, 63. Oct. 27, 1950. 10 F2228

Grain drying equipment.

15449 MAYMONE, B. Conservation des fourrages. France. Min. de l'Agr. B. Tech. d'Inform. 50:413-418. June 1950. 14 F844B

Hay making and silage preparation.

15450 MEYER, H. Das reutern des wiesenheues. Hannoversche Land- u. Forstwirt. Ztg. 103:643, 647. July 15, 1950. 18 H194

15451 MOJONNIER, H. J. Farm tank cooling. Hoard's Dairyman 95:824. Nov. 25, 1950. 44.8 H65

Milk tanks.

15452 MYERS, J. M. Artificial drying of hay and seed with a slatted floor system. Atlantic Coast Line Agr. & Livestock Topics 2(11):3-4. Nov. 1950. 6 At63

15453 REAVES, P. M. Barn cured vs. field cured hay. Hoard's Dairyman 95:916. Dec. 25, 1950. 44.8 H65

15454 RICKEY, L. F. Push-button feed mill. News Farmer Coop. 17(8):7, 16-17. Nov. 1950. 166.2 N47

San Joaquin Valley Poultry Producers Association's new batch-mix mill at Fresno, California.

15455 THOMPSON, C. K. Barn hay drying: development in the U.S.A. and Britain. Rhodesian Farmer 4(9):22-23. Sept. 27, 1950. 24 R347

15456 TINDALL, C. What farmers say about drying corn. Mo. Rur. 91(18):4-5. Sept. 23, 1950. 6 R8891

Includes equipment.

15457 TKACHENKO, M. Mechanized threshing of castor bean capsules. (In Russian.) Mashinno-Traktornaya Sta. 10(7):52-53. July 1950. 58.8 M11

15458 TORBEEV, Z. S. Mashiny dlya ochistki i sortirovaniya semjan [Machines for cleaning and sorting seeds]. Molotov, Molotovskoe Obl. Gos. Izd-vo, 1950. 82 p. 58 T63

15459 VORONOV, I. New machine for cleaning freshly-harvested grain. (In Russian.) Kolkhoz. Proizvodstvo 10(7):35. July 1950. 281.8 K83

15460 WOODROW, A. W., and APP, B. A. Thresher and separator for red clover seed samples. U. S. Bur. Ent. & Plant Quar. ET-291, 6 p. Oct. 1950. 1.9 En83Et

15461 ZELENIEV, A. A. Theoretical problems of a silage cutter blower. (In Russian.) Moscow. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 11:273-282. 1949. 20 M857

#### Repair, Maintenance, and Construction Equipment

15462 JONES, F. R. Equipment for the farm workshop. Humble Farm Family 7(5):14. Oct. 1950. 6 F233

15463 KUTOVOI, I. D., and FEDOSEEV, A. M. Spravochnik po remontnomu oborudovaniyu masterskikh MTS i sovkhov [Reference book on repair equipment of machine-tractor station and state farm shops]. Moskva, Gos. Nauch. - Tekhn. Izd-vo Mashinostroitel'noi Lit-ry, 1950. 581 p. 291 K9683

15464 SERS, J. La formation de mécaniciens et artisans ruraux. Rustica 23:852-853. Oct. 8, 1950. 14 R92

15465 STEVENS, J. Haywire renewed. South. Lumberman 181(2271):58. Nov. 15, 1950. 99.81 So82

Use in repairing equipment.

15466 STOPFORD, R. R. The estate workshop. Estate Mag. 50:397-398. Oct. 1950. 10 Es8

15467 WUNDERL, A. Die einrichtung der werkstätte im bauernhof. Pflug 3:183. Sept. 1950. 19 P48

Equipment needed.

#### Spraying and Dusting Equipment

15468 DHENNEQUIN, R. Voici un pulvérisateur. Rustica 23:875. Oct. 15, 1950. 14 R92

15469 GENOVESE, M. DEL. New weed control equipment. (In Italian.) Campagna Milan. 1950(9):1. May 15, 1950. 16 C153

15470 GUNKEL, W. W. A sprayer speedometer is necessary. Farm Res. [N. Y. State Sta.] 16(4):16. Oct. 1950. 100 N48A

15471 HOSCH, L. Pflanzenschutzgeräte auf der 40. DLG-Ausstellung. Hannoversche Land- u. Forstwirt. Ztg. 103:627. July 8, 1950. 18 H194

15472 KHAN, M. H. Spraying and dusting equipment for orchards. Punjab Fruit J. 14(47):24-28. Jan. 1950. 80 P962

15473 KNUST, H. G. A power spray for applying chemical weedicides. Queensland Bur. Sugar Expt. Stas. Cane Growers' Q. B. 14:11-13. July 1, 1950. 65.9 Q3C

15474 PLANT PROTECTION, LONDON. Plantector spraying system, embodying the Agroxone jet. London, 1949? 8 p. 58 P692

15475 STAUMONT, A. D. A sprayer "with foot". (In Flemish.) Cult. en Handel 16:490. Aug. 1950. 80 C892

15476 WILSON, G. Benzene hexachloride distributors. Queensland Bur. Sugar Expt. Stas. Cane Growers' Q. B. 14:20-35. July 1, 1950. 65.9 Q3C



## Vehicles

- 15177 AVIATION in agriculture. Rur. Bank N. S. Wales. Trends: Agr. Indus. Com. 1(9):8-14. Sept. 1950. 280.9 R882
- 15478 AZEVEDO, A. L. Brief notes on agricultural equipment. 1. Tractors. (In Portuguese.) Gaz. do Agr. 2:186-190. (Cont.) Aug. 1950. 24 G25
- 15479 BERGLUND, N. H., and SVENSSON, K. Å. Traktorboken [The tractor book]. Stockholm, Lantbruksförbundet Tidskriftsaktiebolag, 1950. 295 p. 58 B45T
- 15480 COLMAR, H. Britain to produce big tracklaying tractor. Impl. & Tractor 65(24):25, 28, 32. Nov. 25, 1950. 58.8 W41
- 15481 DELASNERIE, J. Quelques enseignements de Senlis. Mont. Agr. 3(132):6. Oct. 22, 1950. 14 M744
- Tractor utilization.
- 15482 DES OMBRAGES, J. Pourquoi pas des courses de tracteurs? Rustica 23:874-875. Oct. 15, 1950. 14 R92
- 15483 DUPILLIER, C. Ce que doit savoir le charron-carrossier. Il y a essieu—et essieu. Mont. de la Mécan. Rur. 43:311, 315. Sept. 1950. 58.8 M74
- 15484 ENGELHARD, J. Il y a des motoculteurs pour toutes les situations. Rustica 23:821. Sept. 24, 1950. 14 R92
- 15485 ENGELHARD, J. Mototraceurs. Rustica 23:913. Oct. 29, 1950. 14 R92
- 15486 ENGELHARD, J. Un tracteur de moyenne puissance répond-il à des besoins français? (Extr.) Mont. de la Mécan. Rur. 43:331. Oct. 1950. 58.8 M74
- 15487 FROLOV, L. Mechanical unloader of trucks. (In Russian.) Tekhsoveti MTS 11(33/34):1-13. 1950. 58.8 T233
- 15488 GADRAS, M. Du choix des tracteurs dans la motorisation agricole. Terre d'Occ 32:433-442. Oct. 1950. 14 Ar5
- 15489 GAL'CHENKO, D. How to eliminate defects in the lubrication system of STZ-NATI and "Stalinet-65" tractors. (In Russian.) Tekhsoveti MTS 11(33/34):14-15. 1950. 58.8 T233
- 15490 GEHRELS, J. C. Horse and tractor in agriculture. (In Dutch.) Nieuwe Veldbode 17:44. Oct. 19, 1950. 12 V542N
- 15491 GETMAN, F. Improvement in planning the repair of tractors and combines. (In Russian.) Tekhsoveti MTS 11(31/32):15-16. 1950. 58.8 T233
- 15492 GOROZHANKIN, V. DT-54 Diesel tractor. (In Russian.) Mashinno-Traktornaya Sta. 10(7):24-29. July 1950. 58.8 M11
- 15493 GUREVICH, A. Filter for fine clearing of DT-54 tractor oil. (In Russian.) Tekhsoveti MTS 11(31/32):6-8. 1950. 58.8 T233
- 15494 HISSERICH. Dreispur - traktoren und ackerwagen. Landmasch.-Rundschau 2:155-158. 1950. 58.8 L237
- 15495 HISSERICH. Schwerpunkt-kipper. Landmasch.-Rundschau 2:154-155. 1950. 58.8 L237
- 15496 HOOGLAND, E. J. A. A few observations on agricultural wagons. (In Dutch.) Plattelands-Post 6(36):6-7. Sept. 16, 1950. 12 P69
- 15497 KHROBOSTOV, S. N. Opyt raboty peredovyykh traktornykh brigad Belorussii [Practices of leading tractor brigades in White Russia]. Minsk, Gos. Izd-vo BSSR, 1950. 70 p. 283 K52
- 15498 KIRUKHIN, A. M. Truck loader of [sugar] beets. (In Russian.) Sel'khoz mashina 1950(8):14-15. Aug. 1950. 58.8 S42
- 15499 KNUST, H. G. A trailer for cane haulage. Queensland Bur. Sugar Expt. Stas. Cane Growers' Q. B. 14:36-38. July 1, 1950. 65.9 Q3C
- 15500 KOROBOV, A., and VORONOV, P. How to lengthen the life of the piston group of SKHTZ tractors. (In Russian.) Tekhsoveti MTS 11(29/30):15-16. 1950. 58.8 T233
- 15501 KUGEL, R. V., ed. Traktory "Universal"-1 "Universal"-2 [Universal-1 and Universal-2 tractors]. Moskva, Gos. Nauch.-Tekhn. Izd-vo Mashinostroitel'noi Lit-ry, 1950. 147 p. 291 K95
- 15502 LIPPMANN, K. Schlepper und pferd. Hannoverische Land- u. Forstwirtschaft. Ztg. 103:709-710, 730. Aug. 12-19, 1950. 18 H194
- 15503 MATSUMOTO, K. Manual tractors. (In Portuguese.) Chacaras e Quintais 82:481-482. Oct. 15, 1950. 9.2 C34
- 15504 MILLS, D. R. Farm transport with a plan behind it reaches the dealer; the changes on the low loader and three-way tipper. Agr. Mach. J. 4(11):30-31. Nov. 1950. 58.8 Ag86
- Tractor-trailer combinations.
- 15505 PALLOTTA, F. Agricultural fuels and their advantages. (In Italian.) Terra e Sole 98:347-348. Oct. 1950. 16 T273
- 15506 PERRY, J. Make your tractor save money. Hoard's Dairyman 95:733, 738-739. Oct. 25, 1950. 44.8 H65
- Maintenance and repair.
- 15507 POPOV, V. A. Avtotraktornye pribory [Automobile and tractor instruments]. Moskva, Gos. Nauch.-Tekhn. Izd-vo Mashinostroitel'noi Lit-ry, 1950. 187 p. 335 P81
- 15508 REED, I. F., and SHIELDS, J. W. Wide-base rims—how they affect farm tractor tires. (Excerpts.) Soc. Automotive Engin. J. 58(12):40-41. Dec. 1950. 291.9 S01
- 15509 ROZANOV, V. G. Traktor SKHATZ-NATI [SKHATZ-NATI tractor]. Ed. 6, rev. (Moskva, Gos. Izd-vo Sel'khoz Lit-ry, 1950. 463 p. (Uchebniki i Uchebnye Posobiya dlya Podgotovki Sel'skokhozyaystvennykh Kadrov Massovoi Kvalifikatsii) 58 R812
- 15510 SELIVANOV, A. I. New equipment for checking and regulating the fuel apparatus of Diesel tractors. (In Russian.) Tekhsoveti MTS 11(31/32):1-6. 1950. 58.8 T233
- 15511 SKVORNÍUK, P. Some additional conditions for adjustment of fuel pumps of M-17 engines. (In Russian.) Mashinno-Traktornaya Sta. 10(7):51. July 1950. 58.8 M11
- 15512 SPRADLING, S. Do you own a varnish factory? Mo. Farmer 42(10):4. Oct. 1950. 6 M696
- Correct storage of gasoline on the farm.
- 15513 TISHKOVICH, A. A two-wheel dumpcart. (In Russian.) Kolkhoz. Proizvodstvo 10(7):37. July 1950. 281.8 K83
- For transporting farm products on the field.
- 15514 TROITSKIĬ, I. To shorten the idleness of S-80 tractors due to repair of fuel apparatus. (In Russian.) Mashinno-Traktornaya Sta. 10(7):48-49. July 1950. 58.8 M11
- 15515 VÄINER, M. Better utilization of Diesel tractors. (In Russian.) Mashinno-Traktornaya Sta. 10(7):46-47. July 1950. 58.8 M11
- 15516 VINOT, G. Les tracteurs "C.A.S.E." type LAI à roues motrices jumelées. Sol 1950:166-167. 14 S04
- 15517 VOLKOV, B. Closed cooling system of tractor engine. (In Russian.) Mashinno-Traktornaya Sta. 10(7):50-51. July 1950. 58.8 M11
- 15518 ZUBAREV, N. G., ed. Kratкое rukovodstvo po éksploataatsii gusenichnogo traktora KHTZ DT-54 [Brief handbook on the utilization of KHTZ DT-54 caterpillar tractor]. Penza, 1950. 107 p. 58 Z82

## FARM STRUCTURES AND RURAL HOUSING

- 15519 ALAMANNI, M. Rural buildings and the system of skeleton construction. (In Italian.) Agr. Tosc. 5:414. Nov. 1950. 16 Ag827
- 15520 BENOY, W. G. Design and layout of farm buildings. In Gt. Brit. Ministry of Agriculture and Fisheries. Agricultural Land Serv. Fixed equipment of the farm, p. 14-23. 1950. 296 G7932
- 15521 BRADLEY, J. D. Foreign farm construction. Country Guide 69(10):13, 60. Oct. 1950. 7 G76
- Farm buildings in Europe.
- 15522 CHRISTENSEN, E. J. Planning the Nebraska farmstead. VII. Utility building. Nebr. Elect. Farmer 4(11):6. Nov. 1950. 335.8 N27
- 15523 COLUMBO, V. Contribution to research on unification, standardization, and modularization of rural structures. (In Italian.) Riv. di Estim. Agr. e Genio Rur. 13:364-373. Aug. 1950. 281.8 R522
- 15524 GASTON, H. P. How efficient is your packing house? Recent studies on packing house design can help you cut your grading and handling costs. Amer. Fruit Grower 70(11):8, 27-28. Nov. 1950. 80 G85



- 15525 KRYLOV, N. V., ed. *Spravochnik po sel'sko-khoziaistvennomu stroitel'stvu* [Reference book on agricultural construction], v. 1. Ed. 3, rev. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 648 p. 291 K94
- 15526 NOVIKOV, G., and DYKMAN, KH. On the Lenin Collective Farm [in Tambov Region]. (In Russian.) *Sel'sk. Stroitel'* 5(4):4-5. July/Aug. 1950. 296.28 Se4 Building and housing construction.
- 15527 RIVIÈRE, J. F. Les bâtiments de la ferme. France. Min. de l'Agr. B. Tech. d'Inform. 52:571-574. Sept. 1950. 14 F844B
- 15528 SEILNACHT, W. Das bauen in der landwirtschaft. Ravensburg, Maier, 1950. 151 p. 296 Se4
- 15529 SMITH, L. J. Dangerous weaknesses in farm buildings. *Hoard's Dairyman* 95:769,792-793. Nov. 10, 1950. 44.8 H65 Construction.
- 15530 WAAGSTROEM, A. Billiges bauen in der landwirtschaft. Pflug 3:162-163. Aug. 1950. 19 P48 Austria.
- 15531 WITZEL, S. A., and MOULTON, F. S. Build a pole-type packing house. *Amer. Fruit Grower* 70(11):7, 26. Nov. 1950. 80 G85
- Animal Shelters and Animal Service Buildings**
- 15532 ANGELL, G. N. Hen houses for \$3 per bird. *Wash. Farmer* 75:757,771. Oct. 19, 1950. 6 R151
- 15533 BACK, R. Noch einmal der Angorakaninchenstall. *Osterr. Kleintierzüchter* 1950:826-827. Sept. 1950. 49 Os7
- 15534 BLAIR, J. K. Single fan units with air intakes from mow. *Elect. on the Farm* 23(9):7-9. Nov. 1950. 335.8 EL27 In barn ventilation.
- 15535 BOYD, J. S., and MADDEX, R. L. Heat in the milk house. *Hoard's Dairyman* 95:857,873. Dec. 10, 1950. 44.8 H65
- 15536 BROWN, J. C. Fans help solve ventilating problems. *Amer. Poultry J.* 81(10):6,18. Oct. 1950. 47.8 Am32
- 15537 COLBY, H. N., and WARREN, R. Three-story 36 X 36 poultry house. N. H. Agr. Col. Ext. Poultry Housing Ser. 2,4 p. 1950? 275.29 N452P
- 15538 CROSBY, J. From cages to floor house of unusual design. *Calif. Farmer, North. Ed.* 193:398. Nov. 4, 1950. 6 C126 Poultry house.
- 15539 DAVIDSON, H. R. Housing for pigs. In *Gt. Brit. Ministry of Agriculture and Fisheries. Agricultural Land Serv. Fixed equipment of the farm*, p.35-40. 1950. 296 G7932
- 15540 DELL, A. Advantages of up-to-date poultry houses. *Agr. Soc. Trinidad & Tobago. Proc.* 50:145-147. June 1950. 8 T73
- 15541 DUNCAN, J. E. Design and construction of sheep-drafting yards. *New Zeal. J. Agr.* 81:227,229,231, 233-237,239-240. (Concl.) Sept. 1950. 23 N48J
- 15542 ELGAR, N. E. B. What does the cow think about it? *Country Landowner* 1:176-180. Oct. 1950. 10 C836 Types and designs of buildings.
- 15543 FINN, H. Poultry housing systems. In *Gt. Brit. Ministry of Agriculture and Fisheries. Agricultural Land Serv. Fixed equipment of the farm*, p.40-43. 1950. 296 G7932
- 15544 GEDDES, H. J. A floor that saves young pigs. *Queensland Co-op.* 5(10):21-22. Aug. 31, 1950. 280.28 Q3 Farrowing pens.
- 15545 GOODMAN, A. M. What width for the hen house? *Poultry Impr. Bd. N. Y. Ybk.* 1950/51:8. 47.9 N484
- 15546 GORJUNOV, N. Raising chicks in one-story cages. (In Russian.) *Mfasnafa Indus. SSSR.* 21(3):75-77. May/June 1950. 50.8 M58
- 15547 HALPAAP. Bringt eure stallungen in ordnung! *Molk.-Ztg.* 4(36)(sup.:Unser Milchvieh. Ausg. A 2(9):3.). Sept. 7, 1950. 44.8 M735 Ventilation and sanitation.
- 15548 HAYES, J. B. Cut down on overtime for best production in the poultry house. *Dairyland News* 20(11):14. Nov. 1950. 280.28 W752 Lighting.
- 15549 HECKL, R. Die triebkräfte der stall-lüftung. *Osterr. Landtech.* 3:156-159. June 1950. 58.8 L236
- 15550 HUNTSMAN, C. M. Ventilation and the health of fall layers. *Canad. Poultry Rev.* 74(11):8-9. Nov. 1950. 47.8 C16
- 15551 JOHNSON, R. E. Two stall elevated milking parlor. *Elect. on the Farm* 23(9):10. Nov. 1950. 335.8 EL27
- 15552 KELLUM, R. What type dairy barn—stanchion or milking parlor? *Purdue Agr.* 42:3,16. Oct. 1950. 6 P97
- 15553 KENNEY, R. Accommodation for dairy and beef cattle. In *Gt. Brit. Ministry of Agriculture and Fisheries. Agricultural Land Serv. Fixed equipment of the farm*, p.27-35. 1950. 296 G7932
- 15554 LECLERC, M. Votre taureau est-il convenablement logé? *Digeste de l'Éleveur* 5(2):13-15. Oct. 1950. 49 D56
- 15555 LÓPEZ Y LÓPEZ, C. Establos y animales sanos. *Agricultura [Madrid]* 19:416-421. Sept. 1950. 15 Ag84
- 15556 MOTYLENOK, E. A pen without litter for fattening [geese and ducks]. (In Russian.) *Mfasnafa Indus. SSSR.* 21(3):77-78. May/June 1950. 50.8 M58
- 15557 NAGEOTTE, J. C. Let there be light. *Hoard's Dairyman* 95:732. Oct. 25, 1950. 44.8 H65 In barns.
- 15558 NIBLER, C. W. Come into the parlor. *Nebr. Elect. Farmer* 4(11):7. Nov. 1950. 335.8 N27 Milking parlor.
- 15559 ORR, H. L. Poultry housing. *Farmer's Mag.* 47(11):60-61. Nov. 1950. 7 C165
- 15560 PAREZ, M. Une campagne de désinfection des étables dans le Vexin. *Sol* 1950:163-165. 14 So4
- 15561 PARKS, S. L. Sunshine for poultry; poultry house windows can be planned to take advantage of the sun. *Amer. Poultry J.* 81(10):3. Oct. 1950. 47.8 Am32
- 15562 PERKINS, B. K. Ein billiger geflügelstall. *Osterr. Kleintierzüchter* 1950:820. Sept. 1950. 49 Os7
- 15563 REICHERT, E. Von der waschbärtriozucht bis zur "selbsterhaltungsfarm." *Deut. Pelztierzüchter* 24:150-152. Aug. 25, 1950. 412.628 D48
- 15564 RINGROSE, R. C., and others. 8' X 8' closed end range shelter. N. H. Agr. Col. Ext. Poultry Housing Ser. 4,4 p. June 1950. 275.29 N452P P. A. Wilcox, R. Warren, and H. N. Colby, joint authors.
- 15565 SAMAT, M. L'orientation du poulailler. *Révell Agr.* 59:329-330. Nov. 1, 1950. 14 R322
- 15566 SAMAT, M. Le parcours des poulaillers. *Révell Agr.* 59:313. Oct. 15, 1950. 14 R322 Housing.
- 15567 SCHLUGA-TSCHUTTIG, N. Eine arbeitskraft bedient 20 rinder! Arbeitersparnis durch freiluft-haltung. *Pflug* 3:184-186. Sept. 1950. 19 P48 Arrangement of dairy farm buildings.
- 15568 SHERSTOBITOV, S. P. Experiment in constructing reindeer shelters [in tundra pastures]. (In Russian.) *Sovet. Zootekh.* 5(8):65-67. Aug. 1950. 49 So822
- 15569 SIRRI, A. The stall with drainage for cattle. (In Italian.) *Riv. di Estimo Agr. e Genio Rur.* 13:376-388. Aug. 1950. 281.8 R522
- 15570 STEINERT, E. Naturgemässe haltung unserer haustiere. *Deut. Landwirt.-Gesell. Mitt.* 3:280-281. Aug. 1950. 18 D48M1
- 15571 STERE, J. B. Give your cows plenty of fresh air with draft free ventilation. *Sealtest Dairyman* 4(6):10-11. Nov./Dec. 1950. 44.8 Se1
- 15572 STERE, J. B. Keeping in step with modern requirements. *Elect. on the Farm* 23(9):6-7. Nov. 1950. 335.8 EL27 Barn ventilation.
- 15573 STREET, A. G. Out of the mud. *Farmers Wk. [London]* 33(19):49. Nov. 10, 1950. 10 F2226 Dairy cattle barns and concrete yards.
- 15574 TARKOV, S. N. Portable poultry houses on the fields in Kuban Area. (In Russian.) *Sotsialist. Zhivotnovod.* 12(7):79-81. July 1950. 49 So71
- 15575 TOMEY, A. Gone with the draught. *Farmers Wk. [London]* 33(20):63. Nov. 17, 1950. 10 F2226 Housing poultry.
- 15576 VERVENNE, B. VAN A. Overpopulation in poultry keeping. (In Dutch.) *Pluimveeteelt* 3(13):5. June 9, 1950. 47.8 P722



15577 WEIDEMAN, E. The barn magnificent; Castle-ton farm, home of Dodge Stables, is building a structure that will provide every convenience for its stallions. Thoroughbred Rec. 152(22):10-11, 31. Nov. 25, 1950. 42.8 T39

#### Farmhouses and Farmsteads

15578 BEYER, G. H. Some factors relating to farm housing in the Northeast. Land Econ. 26:383-389. Nov. 1950. 282.8 J82

15579 CHAPRON, C. Le probleme de l'habitat rural. Unité Paysanne 5(257):1, 6. Oct. 28, 1950. 14 Un3

France.  
15580 GIMBEL, H. Der abort im bauernhaus. Osterr. Landtech. 3:167-170. June 1950. 58.8 L236

15581 HODGELL, M. R. How farm homes have changed! Kans. Farmer 87(21):7, 9, 27. Nov. 4, 1950. 6 K13

15582 LERY, J. La crise du logement rural. Agr. Prat. 114:506-508. Nov. 1950. 14 J82

France.  
15583 RIDDER, C. A. Work distances in farm kitchens. Farm Res. [N. Y. State Sta.] 16(4):4. Oct. 1950. 100 N48A

15584 U. S. FARMERS HOME ADMIN. General specifications for farm dwellings. Richmond, Va., 1950. 14 p. 1.949 G28

#### Greenhouses and Plant Service Buildings

15585 DEWERTH, A. F., and MILNE, C. G. Comparative value of plastic forcing structures. Pacific Coast Nurseryman 9(9):24, 42-43. Sept. 1950. 80 P116

15586 KOROL'KOV, V. D. In regard to changing the surface climate by soil warming. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timoshin. Dok. 11:212-216. 1949. 20 M857

In greenhouses.

#### Materials and Methods

15587 CHIBUNOVSKIĬ, N. Tile manufacture at a brick factory. (In Russian.) Sel'sk. Stroitel' 5(4):22-24 July/Aug. 1950. 296.28 Se4

15588 DONEGAN, L. E. Concrete is what you make it. I. Making good concrete on the farm. Nebr. Elect. Farmer 4(11):8. Nov. 1950. 335.8 N27

15589 KURBATOV, D. Use of clay-brick in the construction of houses. (In Russian.) Sel'sk. Stroitel' 5(4):8-9. July/Aug. 1950. 296.28 Se4

15590 PEERS, L. Insulate against cold and heat. Country Guide 69(10):58-59. Oct. 1950. 7 G76

15591 SALTON, G. L. Pise — or mud. III. Method of construction. Westralian Farmers Co-op Gaz. 19:177-180. Sept. 1950. 280.28 W522

15592 TITSCHER, O. Holzfaserplatten auch für landwirtschaftliche bauten. Pflug 3:210-211. Oct. 1950. 19 P48

Austria.

#### Storage Structures

15593 BIRTH, A. K. Look at your egg room; a few simple changes might save you time, labor, and money. Pa. Farm Econ. 40:1-4. Oct. 1950. 275.29 P382Pf

15594 BRUGGEN, O. VAN. The construction and equipment for potato storage places. (In Dutch.) Landbk Tijdschr. 62:697-711. Sept. 1950. 105.2 Or3

15595 BUTH, H. Der stahldrahtnetzsillo in bäuerlichen betrießen. Hannoversche Land- u. Forstwirt. Ztg. 103:750-751. Aug. 26, 1950. 18 H194

15596 DEWALD, F. L. P. Automatic ventilation control of cold storage rooms for fruit and other farm and horticultural products. (In Dutch.) Fruitteelt 40:756-757, 759. Oct. 5, 1950. 86 N28

15597 LEWIS, F. C. This portable feed storage building will cut labor and feed losses. Turkey World 25(11):18-19. Nov. 1950. 47.38 T84

15598 MAHONEY, P. Southern California dairymen learn about Harvestore. Calif. Dairyman 30(22):17-18. Dec. 2, 1950. 44.8 C12

A crop and silage storage unit.

15599 PLASSE, J. J. V. D. Disinfection of storage places and cold storage houses. (In Dutch.) Betuws Tuinbouwbl. 8(13):4-5. Sept. 2, 1950. 80 B464

15600 SAPPAP, M. A shed for drying tobacco. (In Russian.) Sel'sk. Stroitel' 5(4):11. July/Aug. 1950. 296.28 Se4

15601 SCHLUGA-TSCHUTTNIIG, N. Das arbeitszeitparende miststapelgatter. Pflug 3:160-161. Aug. 1950. 19 P48

15602 SMITS, J. VAN G. JR. Cooperative potato storage centers at Rijp and Graft. (In Dutch.) Groenten en Fruit 6:200-201. Sept. 21, 1950. 80 G89

#### Walls and Fences

15603 BUSSE, VON. Erfahrungen über kulturzäune aus "Neptun-knotengeflecht." Allg. Forstz. 5:407. Sept. 27, 1950. 99.8 AL52

15604 DONOVAN, J. M., JR. Which fence at what price? Blood-Horse 60:1216, 1286, 1288. Dec. 2, 1950. 42.8 T392

15605 HENNEPE, TE. Elektrische zäune im geflügelhof. Deut. Wirtgeflügelzucht. 2:286-287. Sept. 9, 1950. 47.8 D483

15606 KELLER, H. Eine neue zaunart. Allg. Forstz. 5:366-367. Aug. 30, 1950. 99.8 AL52

15607 KERMANN, K. Rentabilitätsfragen um den elektrozaun. Tierzüchter 2:416-417. Aug. 5, 1950. 49 T445

15608 KNOCKER, J. H. L. Electric fencing. World Crops 2:503-506. Dec. 1950. 281.8 W892

15609 NEETZEL, J. R., and ENGINE, S. A. Long life cuts fence post costs. Minn. Farm & Home Sci. [Minn. Sta.] 8:4, 13. Oct. 1950. 100 M668

#### FARM UTILITIES

##### Electricity and Electrification

15610 BROWN, C. A. C. Electrical applications. In Gt. Brit. Ministry of Agriculture and Fisheries. Agricultural Land Serv. Fixed equipment of the farm, p. 63-68. 1950. 296 G7932

15611 CARVALLO HEDERRA, S. Las cooperativas de electrificación rural en Chile. Washington. Sección de Cooperativas, División de Asuntos Sociales y de Trabajo, Departamento de Asuntos Económicos y Sociales, Union Panamericana, 1950. 23 p. 150.91 C783

15612 COTTINGHAM, H. A Canadian reports on rural power in Mexico. Elect. News & Engin. 59(22):14-45. Nov. 15, 1950. 335.8 EL224

Electric power.

15613 DAVIS, J. F., and STRICKLER, P. E. Electricity on farms in the eastern livestock area of Iowa. U. S. D. A. C. 852, 88 p. Sept. 1950. 1 Ag84C

Iowa Agricultural Experiment Station cooperating.

15614 DENMARK. STATISTISKE DEPT. Elektricitetsvaerkerne 1948/49. Usines électriques 1948/49. Danmark. Statist. Meddel. (ser. 4) 140, 129 p. 1950. 257.1 S2M

Tables also in French.

Includes electricity in rural areas.

15615 FITZGERALD, O. A. During 25 years, electrification has reached most Idaho farms. Farm Electr. 4(5):31-33. Sept./Oct. 1950. 335.8 F224

15616 HUTCHINSON, K. T. Research making rapid expansion of electrical uses. Tex. Co-op Power 7(5):5. Nov. 1950. 335.8 T31

15617 KOLJASIN, E. A., and NAZAROV, G. I. Change-over of farm machines to electric drive. (In Russian.) Sel'khoz mashina 1950(8):8-10. Aug. 1950. 58.8 Se42

15618 LANOUE, L. Electricité et sécurité doivent servir ensemble. B. des Agr. 46(10):102-104. Oct. 1950. 7 B872

15619 LODI, F. Economic characteristics of the use of electricity in agriculture. (In Italian.) Agr. Ital. 1:450-454. Sept. 15, 1950. 16 Ag822

English summary.

15620 LUCAS, S. W. Can rural electrification make our nation stronger? Carolina Farmer 4(11):7. Nov. 1950. 6 C223

15621 MARTINES, V. Rural electrification and users' associations. (In Italian.) Terra e Sole 98:330-332. Oct. 1950. 16 T273

Italy.

15622 MELLING, C. T. Rural electrification problems. (Sum.) Electrician 145:948. Nov. 10, 1950. 335.8 EL235



15623 NAUMOV, N. G. Elektrifikatsiya sel'skogo khoz'yaistva v SSSR [Electrification of agriculture in USSR]. Moskva, 1950. 29 p. 335 N22

15624 SLATT, V. P. Recloser planning for rural lines. Public Power 8(11):20-23. Nov. 1950. 335.8 P96 Electricity.

15625 TEARE, D. W. Electricity does estimated 600 different jobs on farms. Tex. Co-op Power 7(6):7. Dec. 1950. 335.8 T31

15626 U. S. RURAL ELECTRIFICATION ADMIN. A history of the Finance Division of Rural Electrification Administration; the first fifteen years, by J. F. Marion. Washington, 1950. 49 p. 1.933 H62

15627 U. S. RURAL ELECTRIFICATION ADMIN. Number and percentage of farms electrified with Central Station service, by States, 1935, 1945 and 1950. Washington, 1950. 1 p. 1.933 N91

15628 WESTINGHOUSE ELECTRIC & MANUFACTURING CO. RURAL ELECTRIFICATION DEPT. Electricity in the milkhouse. n.p., 1949. 11 p. 335 W526

15629 WICKARD, C. R. Help farmers get most benefit from use of electricity. Agr. Leaders' Digest 31 (10):17-18. Nov. 1950. 275.28 Am3

#### Heating, Lighting, and Radiation

15630 BARTON, H. F. Heat lamp sales equal load of REA co-ops. Farm Electrification 4(5):1-2, 4-6. Sept./Oct. 1950. 335.8 F224

15631 LEONARD, A. S., and KEPNER, R. A. Many advantages seen in return-stack orchard heater. Pacific Coast Nurseryman 9(11):13-14, 28-31. Nov. 1950. 80 P116

15632 ROBINSON, C. A., JR. Factors in heat pump installation. Rur. Electrification 9:38-39, 68-69. Oct. 1950. 335.8 N21

15633 SEIDEN, R. Heat from the floor; floor heating, though expensive to install, eliminates the need for brooders, and cuts labor costs and waste space. Farm Q. 5(4):76-77, 94-96. Winter 1951. 6 F22995

#### Power Plants, Motors and Engines on the Farm

15634 CACCIAGUERRA, J., and GORSSE, A. DE. L'énergie éolienne et le ruralisme. Agriculture [Paris] 14:291-292. Oct. 1950. 14 Ag823

15635 HOWALD, O., ed. Motoren und pferdekräfte in der schweizerischen landwirtschaft. Schrifolge. über Landarbeit. In der Schweiz 5, 126 p. Ref. 1950. 17 Sch96

15636 KARMISHIN, A. Windmills for mechanization of hard work in the livestock industry. (In Russian.) Tekhnosovety MTS 11(31/32):9-14. 1950. 58.8 T233

15637 KREPELA, W. Kraftübertragungen im landmaschinenbau. Dreschen u. Pflügen 3(10):3-4. Oct. 15, 1950. 58.8 D81

15638 MEINDL, G. Die bodensellwinde—ein wichtiges gerät zur mechanisierung der bergbauernarbeit. Landwirtschaft 1950:264-268. Sept. 1950. 19 L235

#### Sewage and Waste Disposal

15639 FERNÁNDEZ DE LARA, G. A. Fosas septicas. Tierra [México] 5:660-662. Dec. 1950. 8 T445

15640 PHAGAN, C. V. Farm sewage disposal. Okla. Agr. Col. Ext. C. 339, 15 p. n.d. 275.29 Ok41C

#### Telephones

15641 REED, J. S. Rebuilding the rural outside plant. XIII. Telephone Engin. & Mangt. 54(12):29-30, 32, 62. Dec. 1950. 335.8 T232

15642 WICKARD, C. R. A year of the rural phone program. Co-op Power 7(11):B-C, G-H. Nov. 1950. 335.8 C78

#### Water Supply

15643 ALLEN, W. S. Planning for cool, clear water. Prog. Farmer, Tex. Ed. 65(11):128-129. Nov. 1950. 6 T311

Water system.

15644 GRASSI, C. J. Provisión de agua mediante represas en tierra. Rev. Ganad. [Habana] 10(11):18-20. Nov. 1950. 49 R321

15645 KUNDZICH, M. M. Mechanization of water pumping in pastures for migratory livestock. (In Russian.) Sovkhalist. Zhivotnovod. 12(7):86-87. July 1950. 49 So71

15646 SWEDEN. LANTBRUKSSTYRELSEN. Normalbestämmelser för lantbruksrör av betong [Standard regulations for concrete farm pipes]. Sweden. Lantbrstyr. Meddel. Ser. C: Rationaliseringsavd. 4, 13 p. 1950. 11 Sw3Mr

#### AGRICULTURAL PRODUCTS: PROCESSING, DISTRIBUTION, AND STATISTICS

##### GENERAL

15647 BENNETT, M. K. World population, food supply, and Point 4. Stanford University? Calif., 1950. 8 p. 280 B433

15648 BRANNAN, C. F. The 1951 outlook. Natl. Grocers B. 37(12):34-35. Dec. 1950. 286.83 N214 Food.

15649 EVERDING, J. Das erntejahr 1949/50. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1337-1338. Sept. 28, 1950. 18 L2346 Field crops.

15650 FOSCHI, M. The industrial future of Sila based on its agricultural and forest products. (In Italian.) Agr. Ital. 1:524-526. Oct. 15, 1950. 16 Ag822

15651 GRAEFE. Wissenschaftliche Institute und qualitätsverbesserung. Versorgung 4:246-247. Nov. 1950. 280.8 V61 Includes food research.

15652 HAND, D. B. Aims and methods of food research. (Abs.) Canner 111(22):12. Dec. 2, 1950. 286.83 C16

15653 LUNDING, F. J. Effect of the defense program on the food industry. Butchers' Advocate 128(19):14-16. Nov. 8, 1950. 286.85 B97

15654 MIEGE, E. La localisation des cultures au Maroc. Inform. Marocaine 503:1, 4. Sept. 2, 1950. 281.8 In3

15655 MULDER, T. H. Scarcity of raw materials and the Marshall Plan. (In Dutch.) Econ.-Statist. Ber. 35:897-899. Nov. 8, 1950. 280.8 Ec722 English summary, p. 891.

15656 MYSORE. RURAL DEVELOPMENT DEPT. The present food situation and the necessity for growing more food. Mysore Agr. Calendar 1949/50:5-8. 1949. 34.2 M99

15657 REINDOLLAR, W. F. Our association: its efforts and achievements. Assoc. Food & Drug Off. U. S. Q. B. 14:122-128. Oct. 1950. 389.9 As7Q

15658 SURBECK, K. G. The struggle for food in the world today. Organized Farmer 9(21):5-7. Nov. 1950. 281.8 Or32

15659 VOLWILER, E. H. Relationships and similarities of the pharmaceutical and food industries. Food Technol. 4:463-466. Dec. 1950. 389.8 F7398

15660 WILLIS, P. S. Grocery manufacturers view the road ahead. New York, 1950. 15 p. 389 W672G

15661 ZUCKERMAN, S. Food production in relation to the national economy. J. Sci. Food & Agr. 1:255-263. Ref. Sept. 1950. 382 So12 Great Britain.

##### ANALYSIS AND COMPOSITION

15662 ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. Official methods of analysis. Ed. 7. Washington, 1950. 910 p. 387 As729

15663 BOKHOUT, B. Analytical methods for styrenated oils and alkyl resins. (In Dutch.) Chem. Weekbl. 46:836-837. Nov. 18, 1950. 385 C42

15664 CAMPBELL, H. A., HOLLIS, F., JR., and MACALLISTER, R. V. Improved methods for evaluating starch for specific uses. Food Technol. 4:492-496. Dec. 1950. 389.8 F7398

15665 CHAO, K. H. Action, sur les glucides, de quelques bactéries de la pourriture visqueuse. Indus. Agr. et Aliment. 67:357-367. (To be cont.) Aug./Oct. 1950. 383 As7 English summary.



15666 CONGRES INTERNATIONAL TECHNIQUE ET CHIMIQUE DES INDUSTRIES AGRICOLES. 8th, BRUSSELS, 1950. Comités du congrès et programme horaire des travaux. Bruxelles, 1950. 46 p. 388 C765Co

15667 ELLIOTT, R. L. Organic chemistry of cellulose and proteins. Dyer 104:364-366. Oct./Nov. 1950. 306.8 D98

15668 GRASSMANN, W. Neue trennungs- und analysenverfahren der eiweiss-chemie. (Abs.) Angew. Chem. 62:445. Oct. 7, 1950. 384 Z33

15669 GRIDGEMAN, N. T. Bibliography on carotene estimation, with special reference to green-leaf material. Analyst 75:574-576. Nov. 1950. 382 An1

15670 IMPERIAL CHEMICAL INDUSTRIES. ANALYTICAL METHODS COMMITTEE. The determination of carotene in green-leaf material. I. Fresh grass. Analyst 75:568-573. Nov. 1950. 382 An1

15671 JANSEN, A. P. Determination of riboflavin according to the lumiflavin method. Rec. des Trav. Chim. des Pays-Bas 69:1275-1280. Sept./Oct. 1950. 385 R24

15672 JOHNSON, C. M., and ULRICH, A. Determination of nitrate in plant material. Analyt. Chem. 22:1528-1529. Ref. Dec. 1950. 381 J825A

15673 JONES, A., and MORRIS, S. The microbiological assay of riboflavin in yeast and yeast products. Analyst 75:608-613. Nov. 1950. 382 An1

15674 JONES, A., and MORRIS, S. A 24-hour plate assay technique for the vitamin B<sub>6</sub> complex of yeast. Analyst 75:613-621. Ref. Nov. 1950. 382 An1

15675 KOKOSCHINSKI, A. Die elektrolitische schnellbestimmung einiger gesundheitsschädlicher metalle in nahrungsmitteln, konserven, speisen und getränken. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 91:261-263. Oct. 1950. 384 Z39

15676 MASSIEU H., G., and others. Sobre la aplicación del método de Thomas a la dosificación de tirosina en algunos alimentos mexicanos. Cien. e Invest. 6:424-428. Ref. Sept. 1950. 475 C482  
Y. Trigo M., R. O. Cravioto, and J. C. de la Torre, joint authors.

15677 MEYER, K. H. Natural and synthetic high polymers; a textbook and reference book for chemists and biologists. Ed. 2, rev. and enl. New York, Interscience, 1950. 891 p. (High Polymers; a Series of Monographs on the Chemistry, Physics and Technology of High Polymeric Substances, v. 4) 386 H53

Includes synthetic rubber, cellulose, animal and vegetable polysaccharides and lignin, and proteins.

15678 MOLLER, E. F. Die wuchsstoffe der mikroorganismen unter besonderer berücksichtigung der hefen. Brauwissenschaft 1950:200-204. (To be cont.) Oct. 1950. 390.8 B733

15679 PALEY, C. The frozen food lab. Frosted Food Field 11(5):12. Nov. 1950. 389.8 F922  
Sanitary tests.

15680 PANZER, W. Die zählung der bakterien und hefen in teig und brot mit der zählkammer nach Thoma. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 91:93-100. Aug. 1950. 384 Z39

15681 PIPPEN, E. L., MCCREADY, R. M., and OWENS, H. S. Determination of acetyl in pectin. Analyt. Chem. 22:1457-1458. Nov. 1950. 381 J825A

15682 ROGACHEVA, A. I. New method of bacteriological inspection at canning factories. (In Russian.) Mikrobiologiya 19:239-245. May/June 1950. 448.3 M582

15683 WOLFF, O. Lösliche stärke. Stärke 2:198-202. Aug. 1950. 309 St22

#### CONSUMPTION AND UTILIZATION

15684 BAYTON, J. A. Consumer preference research in the Department of Agriculture. Agr. Econ. Res. 2:105-112. Oct. 1950. 1 Ec7Agr

15685 GOOD HOUSEKEEPING CONSUMER PANEL. Food facts. New York, Good Housekeeping, 1950. 48 p. 389 G59

15686 REIFF, F. Die gewinnung von furfural in USA aus abfallprodukten der landwirtschaft. Getreide, Mehl u. Brot 4:155-157. Ref. July 1950. 298.8 G33

15687 SCHOEFFELMAYER, V. H. What Texas may expect from chemurgy. Tex. J. Sci. 2:296-299. Sept. 30, 1950. 470 T31

#### DISTRIBUTION, MARKETING, AND TRANSPORTATION

15688 ALPER, D. E. The broker's place in food distribution. New Eng. Grocery & Mkt. Mag. 17(12):50b. Oct. 1950. 286.83 N44A

15689 BERGEON, P., and NGUYEN-BAO-NGHIA. Aperçu sur le ravitaillement de la région Saigon-Cholon. B. Econ. de l'Indochine 53:251-258. Sept./Oct. 1950. 22.5 In2

15690 BLEDSOE, O. F., III. Our agricultural problem: a report to Congress. Greenwood, Miss., Staple Cotton Coop. Assoc., 1950. 1 p. 281.12 B61  
Surpluses.

15691 BROMELL, J. R. How wholesalers assist retailers. New Eng. Grocery & Mkt. Mag. 17(12):81. Oct. 1950. 286.83 N44A

15692 BRUMLEY, B. B. Farmers have learned about product merchandising. Coop. Digest 11(5a):10. Nov. 15, 1950. 280.28 C7896

15693 BRUNK, M. E. Marketing research in operational efficiency. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.34-43. Washington, 1950. 1.98 M343

15694 CAPPELLE, G. V. D. Marketing organization "Spes Nostra" in New Amsterdam. (In Dutch.) Boer en Tuinder 4(198):8. Nov. 4, 1950. 12 B632  
Netherlands.

15695 COLLINS, R. J. Covent Garden Market at London [Ontario]. Family Herald & Wk. Star 81(45):3,19 Nov. 9, 1950. 7 F21

15696 CORONAT, F. Les perspectives du marché des matières premières. V. Agence France-Presse. Inform. et Doc. 313:17-20. Oct. 14, 1950. 280.9 Ag3

15697 CROSBY, M. W., and HARRIS, K. W. Purchasing food for fifty. N. Y. Agr. Col. Cornell Ext. B. 803, 18 p. Nov. 1950. 275.29 N48E

15698 DELOACH, D. B. Research in costs and margins. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.28-33. Washington, 1950. 1.98 M343

15699 DONELSON, L. Straight from the farm. Farm J. 74(12):32-33, 122. Dec. 1950. 6 F2212  
Marketing.

15700 L'ÉVOLUTION récente du marché mondial des produits de base. France. Inst. Natl. de la Statist. et des Études Econ. Études et Conjoncture, Econ. Mond. 5 (5):3-13. Sept./Oct. 1950. 280.9 F842

15701 FALB, N. H. A complete report on Iowa's 51st annual food dealers' conference. Iowa Food Dealer 19(2):4-5, 16-17, 26-27. Oct. 1950. 286.28 Io9

15702 FINCH, M. S. The problem is selling. (Extr.) Canner 111(21):14, 16. Nov. 25, 1950. 286.83 C16

15703 FLEMMING, H. W. Erfahrungen mit isolier- und kühlbehältern für den transport leichtverderblicher lebensmittel. Kälte 3:208, 210. Sept./Oct. 1950. 295.8 K122

15704 FRANK. Verbuchung und abrechnung der erfassung und des aufkaufs landwirtschaftlicher erzeugnisse. Versorgung 4:249-250. Nov. 1950. 280.8 V61  
Russian Zone of Germany.

15705 GARVER, W. G. The farmer and the rest of us. Feedstuffs 22(43):26, 28, 30, 32-34, 36-37. Oct. 28, 1950. 286.81 F322

Farm markets and prices.

15706 GRAVES, T. H. The functions of a mercantile exchange. Packer 56(47):35. Oct. 28, 1950. 286.8 N483  
Chicago Board of Trade.

15707 GUSLER, G. Market outlook. Mont. Farmer-Stockman 37(22):30. July 15, 1950. 6 M764

15708 HALL, G. D. The Boston Food Brokers Association has a 41 year record. New Eng. Grocery & Mkt. Mag. 17(12):18, 69, 85. Oct. 1950. 286.83 N44A

15709 HARDIN, C. M. Strengthening our regional marketing research. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.142-146. Washington, 1950. 1.98 M343

15710 HERRMANN, O. W. Cooperation and dissemination of results. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.135. Washington, 1950. 1.98 M343

15711 HÖPPNER, R. Eigentumsvorbehalt bei warenverkäufen. Kartoffelwirtschaft 3:379-380. Sept. 22, 1950. 286.83 K14  
Germany.



- 15712 HOUSEMAN, E. Methods of sampling and collection of data in studies involving surveys. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.70-72. Washington, 1950. 1.98 M343
- 15713 HOVEY, H. S., and REYNOLDS, K. The practical book of food shopping. Philadelphia, Lippincott, 1950. 290 p. 389 H82
- 15714 IDOL, E. S. The truck industry problems discussed. Amer. Egg & Poultry Rev. 11(11):42-44. Nov. 1950. 47.8 Am38  
Includes transportation of agricultural commodities.
- 15715 IMHOFF, VAN. Celebration of the Southern Market. (In Dutch.) Drents Landtbl. 31(40):2. Oct. 14, 1950. 12 D812
- 15716 JONES, D. 100-year market; serving the public of Ottawa, 120 farmers bring their produce to the By Ward Market. Family Herald & Wk. Star 81(43):5. Oct. 26, 1950. 7 F21
- 15717 LIPPITT, M. L. Brand names and loss leaders. Wholesale Grocer News 25(9):22, 57. Dec. 1950. 286.83 W622
- 15718 LYONS, I. Future of canned food water transportation. West. Canner & Packer 41(12):11-12. Nov. 1950. 286.83 W522
- 15719 MCCALLISTER, K. J. Methods of sampling and collection of data being used in Baltimore retail market news pilot study. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.73-76. Washington, 1950. 1.98 M343
- 15720 MAMEDOV, A. Organizing the work of machine-tractor station motor transport during harvesting and delivery. (In Russian.) Mashinno-Traktornaya Sta. 10(7):60-61. July 1950. 58.8 M11
- 15721 MORTENSON, W. P. Can we beat surpluses; quality is the key to increased consumption. Dairyland News 20(11):8, 11. Nov. 1950. 280.28 W752
- 15722 NATIONAL CONSUMER-RETAILER COUNCIL. How we get today's food. Natl. Consum.-Retailer Council. Keys Wise Buying 110, 4 p. 1950. 280.9 N2126K
- 15723 OTHMER, D. F. Reflex—the amazing, new RR reefer system saving shippers \$300,000,000 annually! Frosted Food Field 11(4):4, 19. Oct. 1950. 389.8 F922
- 15724 PACHECO, M. F. Los transportes y el abastecimiento. Aliment. Nac. 10(174):8-11, 16. Aug. 25, 1950. 389.8 AL42  
Spain.
- 15725 POE, W. D. South Carolina boosts better marketing. Prog. Farmer, Carolinas-Va. Ed. 65(11):16, 136-137. Nov. 1950. 6 P945
- 15726 RANDALL, L. E., and SHARPNACK, D. M. Market research sources; a guide to information on domestic marketing. U. S. Dept. Com. Dom. Com. Ser. 20, 261 p. Washington, 1950. 157.54 D33  
Includes publications of the Department of Agriculture.
- 15727 RAYMACKERS, R., and DURAND, R. Le produit et son achèvement. Coopération 20:15-20. Oct. 1950. 280.28 C7845  
Food marketing.
- 15728 REED, H. J. The challenge of marketing research. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.18-25. Washington, 1950. 1.98 M343
- 15729 RIDDELL, G. E., and HECKMAN, J. H. Buying and selling by cooperatives in Europe. U. S. Foreign Agr. Relat. Foreign Agr. Rpt. 51, 73 p. July 1950. 1.943 F763
- 15730 RIDDELL, G. E. Farmers in Low Countries sell by the clock. Blue Anchor 27(4):18-19. Nov. 1950. 286.83 B62  
Cooperatives.
- 15731 ROBERTSON, L. Planning marketing research projects. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.47-48. Washington, 1950. 1.98 M343
- 15732 ROGERS, W. Brokers hall New England wholesalers' association. New Eng. Grocery & Mkt. Mag. 17(12):14. Oct. 1950. 286.83 N44A  
New England Wholesale Food Distributors Association.
- 15733 SOMMERKAMP, G. Der einfluss der englischen agrarwirtschaft auf den westeuropäischen markt. Landwirt. Wechnbl. f. Westfalen u. Lippe 107 A: 1407-1408. Oct. 12, 1950. 18 L2346
- 15734 SOUTHWORTH, H. Appraisal of research completed and under way in margins, costs, services and operational efficiency of agricultural products. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.26-27. Washington, 1950. 1.98 M343
- 15735 TABLANTE, N. B. Retail outlets for the farmers' products. Agr. & Indus. Life 12(10):20-21. Oct. 1950. 25 Ag8  
Philippines.
- 15736 TRELOGAN, H. C. Where are we and what's ahead in agricultural marketing research? In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.179-182. Washington, 1950. 1.98 M343
- 15737 U. S. AGRICULTURAL RESEARCH ADMIN. Marketing margins and efficiency; a report of the Marketing Research Workshop, July 9 to 19, 1950, Purdue University. Washington, 1950. 238 p. 1.98 M343
- 15738 U. S. EXTENSION SERV. Marketing challenges the Extension Service. Washington, 1950. 9 p. 1.913 E2M343
- 15739 U. S. PRODUCTION AND MARKETING ADMIN. Periodic market reports of the Production and Marketing Administration. Washington, 1950. 30 p. 1.9422 A8R293
- 15740 VARNEY, H. R. Dissemination of the results of marketing research. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.147-153. Washington, 1950. 1.98 M343
- 15741 VINING, K. Roadside market. Prairie Farmer, Gen. Ed. 122(22):14-15. Nov. 18, 1950. 6 P883
- 15742 WAITE, W. C. Additional methods and types of data that are useful in marketing research. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.110-111. Washington, 1950. 1.98 M343
- 15743 WALLA, M. Vom marktfahren und anderem. (Excerpts.) Gartenbauwirtschaft [Wien] 1950:159-160. July 25, 1950. 80 G1936
- 15744 WINTER, F. Observations of our workshop. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.173-178. Washington, 1950. 1.98 M343
- 15745 YOUNG, E. C. Methods of studying operational efficiency of marketing systems and marketing plants. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.91. Washington, 1950. 1.98 M343

#### GRADING, INSPECTION, STANDARDIZATION, AND QUALITY

- 15746 BURTON, L. V. Chemical agents and residues in foods: the viewpoint of the container manufacturer. Food Technol. 4:503-506. Dec. 1950. 389.8 F7398
- 15747 CAMERON, E. J. Statement before the House Committee to Investigate the Use of Chemicals in Food Products. Natl. Canners Assoc. Inform. Let. 1314:333-335. Dec. 2, 1950. 389.9 N214In
- 15748 FEIG, M. Diarrhea, dysentery, food poisoning and gastroenteritis; a study of 926 outbreaks and 49,879 cases reported to the United States Public Health Service (1945-1947). Amer. J. Pub. Health 40:1372-1397. Nov. 1950. 449.9 Am3J
- 15749 FERGUSON, C. S. Chemical additives in foods. Assoc. Food & Drug Off. U. S. Q. B. 14:130-137. Oct. 1950. 389.9 As7Q
- 15750 FINCKE, H. Versuch einer übersichtlichen ordnung der genussfertigen lebensmittel und nahrungszubereitungen. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 91: 165-173. Sept. 1950. 384 Z39  
A classification of foodstuffs.
- 15751 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Scheme for a grade assessment and certification service as an assistance to the horticultural industry. Gt. Brit. Min. Agr. & Fisheries. Mktg. L. 108, 12 p. Aug. 1950. 280.39 G793
- 15752 GRIEWOLD, D. M. Food poisoning a review of thirty-four outbreaks. Amer. J. Pub. Health 40:1398-1401. Nov. 1950. 449.9 Am3J
- 15753 IZCUA, H. El curioso mundo de los hongos: cuidado con masticar brinzas de pastel! Chacra 20(239): 72-73. Oct. 1950. 9 C34
- 15754 KOLLER, R. Die unspezifischen lebensmittelvergiftungen. Wien. Tierärztl. Monatsschr. 37:546-555. Ref. Aug. 1950. 41.8 T345



15755 MEINDL, G. Absatzförderung. Landwirtschaft 1950:249-251. Sept.1950. 19 L235

Quality of Austrian agricultural products.

15756 SCHELHORN, M. VON. Untersuchungen über den verderb wasserarmer lebensmittel durch osmophile mikroorganismen. I. Verderb von lebensmitteln durch osmophile hefen. Z. f. Lebensmtl.-Untersuch. u -Forsch. 91:117-124. Ref. Aug.1950. 384 Z39

15757 TAUFEL. Die qualität der nahrung. Versorgung 4:247-249. Nov.1950. 280.8 V61

Russian Zone of Germany.

15758 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Defense controls and farm supplies, by R. S. Trigg and K. M. Gapen. Washington, 1950. 4 p. 1.914 R2R11

Food, farm equipment, and fertilizers.

## PACKING AND PACKAGING

15759 BURNETT, E. N. Gerber saves 6 ways with new divisible case. Food Packer 31(11):24-25,44. Oct. 1950. 286.83 C165

15760 MENZIES, D. J. Testing of glass container closure liners. Food Preserv. Q. 10:32-34. June 1950. 389.9 Au7F

15761 MODERN packaging encyclopedia, 1951. New York, 1950. 946 p. 255 P122

15762 SHACKELTON, O. J. Efficient labeling and casing department. West. Canner & Packer 41(12):7-8. Nov.1950. 286.83 W522

Canned foods.

15763 TEMOR, W. Handelsüblichkeit der verpackung. Ernährungsindustrie 4(18/19):6-7. (Cont.) Oct.1950. 389.8 Er65

## PRICES, PRICE CONTROL, AND RATIONING

15764 BLONDELLE, R. Nos fournisseurs, les consommateurs et nous. Bas-Rhin Agr. 5:541,544. Nov.11,1950. 14 B29

Agricultural and industrial prices.

15765 BLONDELLE, R. Nous ne pouvons attendre davantage. Bas-Rhin Agr. 5:469-470. Sept.30,1950. 14 B29

Prices.

15766 BRANNAN, C. F. The Case farm program proposals. Ill. Business Rev. 7(9):6,8. Sept.1950. 281.12 B732C

Price supports.

15767 BROUSSE, M. Non, les prix ne doivent pas être (en règle générale) inversement proportionnels à l'importance des récoltes. Unité Paysanne 5(255):1,6. Oct.14,1950. 14 Un3

France.

15768 BURTIN, J. Nos prix français face aux prix mondiaux. Foyer Rur. [Paris] 13(158):1,4. Nov.5,1950. 14 F83

15769 CANONNE, F. Le droit de vivre. Nord Agr. 7(2):1-2. Nov.10,1950. 14 N75

Agricultural and industrial prices.

15770 DICKINSON, C. L. Headlines versus facts. G. L. F. Week. Serv. Sched. 15(11):1,4. Sept.11,1950. 280.28 G113W

Prices.

15771 FONDARD, L. La stabilisation des prix dans le monde. Réveil Agr. 59:274-275. Sept.15,1950. 14 R322

15772 GRUBER, H. Agrarpreise und löhne. Kärntner Bauer 100:295-296. Sept.1,1950. 19 K14

15773 HANAU, A. Preisprobleme auf dem agrar-markt. n.p.-1949. 38 p. 284.3 H19P

Germany.

15774 KOHLS, R. L. Where does the food dollar go? Capper's Farmer 61(12):18,61. Dec.1950. 6 M693

15775 KUZNETS, G. M. Farm prices and production. Calif. Agr. [Calif. Sta.] 4(11):1,14. Nov.1950. 100 C12Cag

15776 LAURENS, C. Nouvelles mesures contre la hausse des prix. Unité Paysanne 5(254):1,6. Oct.7,1950. 14 Un3

France.

15777 PEARSON, F. A., MYERS, W. L., and VIAL, E. E. Stock market. N. Y. Agr. Col. Farm Econ. 176:4554-4565. Sept.1950. 280.8 C812

Prices.

15778 PEYRONNET. Note sur l'évolution des cours des matières premières. B. Econ. de l'Indochine 53:267-269. Sept./Oct.1950. 22.5 In2

15779 SERANDOUR, P. Nos craintes. Monit. Agr. 3(131):1,3. Oct.15,1950. 14 M744

Price control in France.

15780 SHUMAN, C. B. The national interest in a farm program. Ill. Business Rev. 7(9):7-8. Sept.1950. 281.2 Sh9

Price supports.

15781 STREET, A. G. Give 'em what they want. Farmers Wk. [London] 33(17):53. Oct.27,1950. 10 F2226

Agricultural price policy in Great Britain.

15782 VILLIERS, G. Prix agricoles et prix industriels. Petit Meunier 16(747):3. Nov.2,1950. 298.8 P44

France.

15783 WARE, H. H. The function and formation of commodity prices in the U.S.S.R. Birmingham. U. Dept. Econ. & Inst. U.S.S.R. B. Soviet Econ. Devlpmt. 4:21-31. Sept.1950. 280.9 B532

15784 YOHE, R. S. Cheap food is political tool of British Labor Party. Nebr. Farmer 92(21):7. Nov.4, 1950. 6 N27

Guaranteed prices to farmers and food subsidies.

15785 YOHE, R. S. John Bull bosses British farmers and buys their basic crops. Nebr. Farmer 92(20):7,39. Oct.21,1950. 6 N27

Britain's food pricing system and planned economy for farmers.

Similar title in West. Farm Life 52(22):3,8. Nov.15, 1950. 6 R153

## PROCESSING AND STORAGE

15786 AMERICAN SOCIETY OF BAKERY ENGINEERS. Proceedings of the twenty-sixth annual meeting, 1950. Chicago, 1950. 396 p. 389.9 Am37P

15787 ATKINSON, F. E. Heat sterilization. (Sum.) Canad. Food Indus. 21(12):29,31-32,37. Dec.1950. 286.83 C166

15788 CAVELLINI, O. The general warehouses of the Agrarian Society. (In Italian.) Avvenire Agr. 58:246-247. Oct.1950. 16 Av9

15789 CLIFCORN, L. E. Developments in the production and utilization of canned foods. (Abs.) Canner 111(22):14. Dec.2,1950. 286.83 C16

15790 DIKANSKAJA, E. M. Synthesis of riboflavin (vitamin B<sub>2</sub>) by microorganisms. (In Russian.) Mikrobiologija 19:260-274. Ref. May/June 1950. 448.3 M582

15791 GUYOTJEANNIN, C. Action inhibitrice de l'acide acétique sur l'assimilation d'acides organiques par des levures formant un voile. Ann. de Parasitol. Humaine et Compar. 25:350-352. 1950. 436.8 An7

15792 HARTOG, C. DEN. Use of preservatives in housekeeping. (In Dutch.) Voeding 11:318-324. Aug.15, 1950. 389.8 V85

English summary.

Home canning.

15793 HEISS, R. Lebensmitteltechnologie. München, Bergmann, 1950. 344 p. 389 H363

15794 HÖNSCH, W., and KRÖNER, W. Über das verhalten von stärkeirupsäften beim einkochen und bei aktivkohlebehandlung unter betriebsbedingungen. Stärke 2:195-198. Aug.1950. 309 St22

15795 HUMPHREY, H. J. Frozen foods. N. Y., Gen. Elect. Sci. Forum, 1950. 5 p. 500 G28

15796 KERTESZ, Z. I. What pectins mean to food processor. (Abs.) Canner 111(22):14. Dec.2,1950. 286.83 C16

15797 KOLACHOV, P., SMITH, L. A., and WILLKIE, H. F. Le procédé continu dans les fermentations industrielles. Rev. des Ferment. et des Indus. Aliment. 5:154-159. Ref. Oct.1950. 390.08 R32

15798 MATCHETT, J. R., and others. Processing and preservation of food. Inter-Amer. Conf. Agr. U. S. Paper 4(14),12 p. Dec.1950. 5 In820A

H. Von Loesecke, W. T. Pentzer, W. Ashby, L. Henderson, and A. Merrill, joint authors.

15799 MÜLLER-MANGOLD, D. Die schweflige säure in der lebensmittelherstellung unter besonderer berücksichtigung der stärke- und stärkeerivatefabrikation. (Abs.) Angew. Chem. 62:431. Sept.21,1950. 384 Z33



- 15900 NORDSIEK, F. W. How yeast is made. *Mod. Miller & Bakers News* 77(23):19,24. Nov.11,1950. 298.8 M72
15901. PORTUGAL. INSTITUTO NACIONAL DE ESTATÍSTICA. Estatística Industrial, 1948, statistique industrielle. Lisboa,1949? 410 p. 264 F49Ei  
Includes the industries processing agricultural products.
- 15902 QUICK FROZEN FOODS. 1951 directory of frozen food processors of fruits, vegetables, seafoods, meats, poultry, juices and specialties throughout the world. New York,1950. 640 p. 225 Q4
- 15903 RAMSTAD, P. E. Effects of processing and storage of foods on starches and proteins. (Abs.) *Canner* 111(22):12-13. Dec.2,1950. 286.83 C16
- 15904 REBIFFE, J. Pasteur et l'agriculture. *Dé-fense Agr. de la Beauce et du Perche* 47:385-386. Oct.21,1950. 14 D36  
Research in fermentation and animal disease.
- 15905 REISTRUP, R. Frozen split pea soup. *Ice & Refrig.* 119(5):43-44. Nov.1950. 295.8 Ic2
- 15906 ROUNTREE, G. V. Cost figures and selling prices. (Excerpts.) *Canner* 111(20):10-11,22. Nov.18, 1950. 286.83 C16
- 15907 SCHOFFELMAYER, V. H. Chemurgic food processing sets new records. *Tex. Chemurg. News* 6(5): 1-2. Nov.1,1950. 381 T29
- 15908 SCHOONENS, J. G. New heating source for the processing industry; sterilization with the help of high frequency. (In Dutch.) *Visserijwereld* 40:929,931. Oct.6,1950. 414.8 V82
- 15909 SHUMAN, A. C., and STALEY, C. H. Drying by infra-red radiation. *Food Technol.* 4:481-484. Dec. 1950. 389.8 F7398
- 15910 SMITH, D. A. Spray drying—a useful and versatile unit operation. *Instrumentation* 4(6):32-34. Third Q.1950. 297.8 In73
- 15911 SORGATO, I. Production de furfural en phase liquide. *Indus. Agr. et Aliment.* 67:369-374. Aug./Oct. 1950. 383 As7  
English summary.
- 15912 STEUR, J. P. K. VAN DER. Technique of food preservation. (In Dutch.) *Voeding* 11:394-410. Oct.15,1950. 389.8 V85
- 15913 TRESSLER, D. K., ed. Some aspects of food refrigeration and freezing. *Food & Agr. Organ. United Nations. FAO Agr. Studies* 12,204 p. Nov.1950. 28 F73
- 15914 TUTTON, W. R., and COONEN, N. H. The war on oxygen in canned foods. *Food Canada* 10(11):42,44,46. Nov.1950. 389.8 F7323
- 15915 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Home food preservation by city families, 1947. U. S. Bur. Human Nutr. & Home Econ. 1948 *Food Consumption Surveys. Prelim. Rpt.* 15,9 p. Nov.1950. 1.982 A2F738
- 15916 U. S. PRODUCTION AND MARKETING ADMIN. Summary of State and regional cold storage holdings for 1949. Washington,1950. 46 p. 1.956 M34Su62
- 15917 U. S. WESTERN REGIONAL RESEARCH LABORATORY. Publications with abstracts of the Enzyme Research Division, November, 1937 - December, 1947. U. S. Bur. Agr. & Indus. Chem. AIC-219,rev.,12 p. Oct. 1950. 1.932 A2Ag82
- 15918 WADDAMS, A. L. Drying; rotary drier design, liquid film dehydration, flash and spray drying. *Internatl. Chem. Engrg.* 31:452-454. Ref. Oct.1950. 382 In8  
Includes food.
- 15919 WANDERSTOCK, J. J. What the new antioxidants can mean to you. *Locker Mangt.* 4(12):24-26,49. Dec.1950. 389.8 L79
- 15920 WIEGAND, E. H. Cannery layout. (Sum.) *Canad. Food Indus.* 21(11):39,41,43. Ref. Nov.1950. 286.83 C166
- 15923 CASTILLO, C. M. El censo agropecuario de 1950 y la estadística agrícola costarricense. Costa Rica. Ofic. de Censos. B. Inform. 1(8/9):5-6. Sept./Oct.1950. 254 C827
- 15924 CRON, L. E. Relación del censo agropecuario con las estimaciones sobre cultivos y ganado. Costa Rica. Ofic. de Censos. B. Inform. 1(10/11):7-8. Nov./Dec.1950. 254 C827  
United States.
- 15925 HELGASON, E. Crop yields 1949. (In Icelandic dic.) *Freyr* 45:213. Aug.1950. 11 F89
- 15926 ITALY. ISTITUTO CENTRALE DI STATISTICA. Compendio statistico italiano 1949-1950 [Compendium of Italian statistics 1949-1950], ser. 2, v. 3. Roma,1950. 277 p. 261 Is7C  
Includes agricultural and forestry statistics.
- 15927 MORTARA, G. Basic information on Brazil: agricultural production. (In Portuguese.) *Brazil. Cons. Nac. de Geog. B. Geog.* 7:1508-1517. Mar.1950. 331.9 B73  
Statistical.
- 15928 PERU. DEPT. DE ECONOMIA RURAL. Variaciones de los cultivos en diversos valles. *Rev. Agropecuaria del Perú* 1(2):62-67. Apr./June 1950. 9.8 R322  
Area.
- 15929 PERU. DEPT. DE ECONOMIA RURAL. Variaciones en las extensiones cultivadas en algunos valles de la costa en los años 1941 a 1948. Lima,1949? 15 p. 255.3 Ec72
- 15930 SJØGARD, M. Some figures to clarify the position and progress of agriculture in North Trøndelag. (In Norwegian.) *Landbruks Tidende* 56:746-748. Sept.20, 1950. 11 L236
- 15931 SPAIN. INSTITUTO NACIONAL DE ESTADÍSTICA. Ensayo de división de las provincias españolas en comarcas agrícolas homogéneas. Madrid,1949. 31 p. 263 In7En  
Statistics.
- 15932 SPANISH WEST AFRICA. SECRETARIA GENERAL. Zona al Sur del Draa, anuario estadístico 1948. Sidi Ifni,1949. 70 p. 270 Sp22Z  
Includes agriculture and forestry.
- 15933 SVENSKA INSTITUTET FÖR KULTURELLT UTBYT MED UTLANDET, STOCKHOLM. Graphic Sweden; a survey of this country's population, industry, commerce, and social culture. Stockholm,Swedish Inst., 1949? 52 p. 280.173 Sv22  
Includes statistics of agriculture and forestry.
- 15934 U. S. ECONOMIC COOPERATION ADMIN. Belgium-Luxemburg, country data book. Paris,Georges Lang,1950. unpagged. 173.2 Ec72Cou  
Includes data on agriculture and trade.
- 15935 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Index to maps and charts published by the Office of Foreign Agricultural Relations. Washington, 1950. 40 p. 1.943 In23
- 15936 VAZ, D. F. Valores de produção de alguns produtos agrícolas do continente nos anos de 1927 a 1948 [Value of production of certain agricultural products of the Continent during the years 1927 to 1948]. Portugal. Inst. Nac. de Estatís. Estud. 17,78 p. 1950. 264 F49Est

## BEVERAGES AND CONDIMENTS

## STATISTICS

- 15921 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Pickles, sauces, condiments, coffee, spices, etc. *Austral. Bur. Census & Statis. Mfg. Indus.* 23,10 p. Sept.19,1950. 271 Au72Ma
- 15922 BOMBAY. DEPT. OF AGRICULTURE. Season and crop report of the Bombay State for the year 1947-48. Bombay,1950. 63 p. 22 B63S  
Statistics.

- 15937 AGAPOV, V. V. Proizvodstvo Sovetskogo shampanskogo rezervuarnym sposobom [Production of Soviet champagne by the tank method]. Moskva,Pishchepromizdat,1950. 51 p. (Uchebnoe Posobie dlia Podgotovki Kadrov Massovykh Professii) 390.1 Ag12
- 15938 AGUILAR, R. What about the coffee question? *Canad. Food Indus.* 21(11):25,27,29. Nov.1950. 286.83 C166
- 15939 AMERICAN SPICE TRADE ASSOCIATION. Spice manual and directory, 1949 edition. New York,1950. 174 p. 68.9 Am3A
- 15940 BACQUE, Z. L'Armagnac. *Terre d'Oc* 32: 430-433. (To be cont.) Oct.1950. 14 Ar5  
Brandy industry.
- 15941 BERNSTEIN, E. M. El precio del café y la política monetaria. Banco Cent. de Costa Rica. *Rev.* 2: 70-77. June 1950. 284.9 B224R



- 15842 BERTUZZI, A. Lack of control for wine or the vineyards will disappear. (In Italian.) *Torchio* 1(11): 1-2. Dec.20,1949. 390.8 T63  
Italy.
- 15843 BISHOP, L. R. Barley and brewing. III. Types of malt and brewing. *World Crops* 2:492-496. Dec.1950. 281.8 W892
- 15844 BOCK, E. Was beim herbsten zu beachten ist. *Bas-Rhin Agr.* 5:475. (Cont.) Sept.30,1950. 14 B29  
Wine manufacture.
- 15845 BRANAS, J. Le prix du vin. *Prog. Agr. et Vitic.* 1950:263-267. Oct.22/29,1950. 14 P94
- 15846 BREMOND, E., and ROUBERT, J. Les mûts de raisin d'Algérie de la récolte 1949. *Ann. des Falsif.* 43:103-109. Apr./June 1950. 389.8 An72
- 15847 CASUBOLO, F. Wine crisis. (In Italian.) *Torchio* 1(11):3-4. (To be cont.) Dec.20,1949. 390.8 T63  
Sicily.
- 15848 CHAMINADE, R. Pour assainir le marché du vin. *Monit. Agr.* 3(132):7. Oct.22,1950. 14 M744  
France.
- 15849 CLERCK, DE. Bières en bouteilles à longue durée de conservation sans pasteurisation. (Sum.) *Petit. J. du Brasseur* 58:875-877. Nov.10,1950. 390.8 P44
- 15850 THE COFFEE industry; a review of world production. *World Crops* 2:460-463. Nov.1950. 281.8 W892
- 15851 CRUZ R., C. Fabricación de sidra champañizada. *Agrario* 15(415):34-35. (Cont.) Aug.1950. 9.3 Ag85
- 15852 DALMASSO, G. Viticulturists and wine makers of the whole world convened at Athens. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:234-236. Sept.15, 1950. 16 C72
- 15853 DALMASSO, G. The wine crisis appraised by Pratolongo. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:231-232. Sept.15,1950. 16 C72
- 15854 DALMASSO, G. The world wine and grape situation in the conclusions of the Athens congress. (In Italian.) *Agr. Ital.* 1:527-530. Oct.15,1950. 16 Ag822
- 15855 ESSERY, R. E. Determination of phytate phosphorus in wort and beer. *Inst. Brewing J.* 56:319-326. Sept./Oct.1950. 390.9 In7
- 15856 FEDERACION CAFETALERA CENTRO AMERICA, MEXICO Y EL CARIBE. IV asamblea general ordinaria y V conferencia técnica. *Honduras Agr.* 2(4/7), 38 p. Apr./July 1950. 8 H753
- 15857 FONTANILLE, H. La déclaration de récolte des vins. *Algérie Agr. et Vitic.* 28(1138):1. Oct.21, 1950. 24 AL37
- 15858 FONTANILLE, H. L'Institut Technique du Vin en Algérie. *Soc. des Agr. d'Algérie. B.* 93:207-215. June 1950. 24 Sol
- 15859 FORNACIARI, A. In defense of Enocianina. (In Italian.) *Cam. di Com. Indus. e Agr. Reggio Emilia. Rass. Econ.* 5(10):6. Oct.1950. 287 R26  
For wine coloring.
- 15860 FRANCE. SERV. D'ETUDES ET DE DOCUMENTATION. DIV. DES AGRICULTEURS ÉTRANGERS. La production mondiale de vin: la vigne en U. R. S. S. France. *Min. de l'Agr. Rev. Études & Monog.* 1950:201-203,205-206. Oct.1950. 281.8 F84
- 15861 GEISS, W. Welche möglichkeiten bietet die vergärung von most in drucktanks hinsichtlich der wertsteigerung der weine? *Österr. Weintzg.* 5:202. Oct.10, 1950. 390.8 Os7
- 15862 GOBBATO, C. The [Rio Grande] Wine Institute, in summing up its activities, once more indemnifies the grape growers for their losses. (In Portuguese.) *Rio Grande do Sul. Sec. da Agr., Indus. e Com. Inform. Rur.* 3(12):10-12. Sept.1950. 9.2 R4741
- 15863 GOVINDARAJAN, V. S., and SREENIVASAYA, M. A papyrographic micro-method for a determination of the organic acid make-up of fermented beers. *Cur. Sci.* 19:269-272. Sept.1950. 475 Sci23
- 15864 HIEMELEERS, J. How do we make our own fruit wine? (In Flemish.) *Tuinbouwberichten* 14:134. Sept.15,1950. 80 T817  
Belgium.
- 15865 HOLZ, G., and WILHARM, G. Beitrag zur kenntnis des acroleins in obstbränden, maischen und mosten. I. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 91: 256-260. Ref. Oct.1950. 384 Z39
- 15866 HUBER, H. Weinbereitung im haushalt. *Grüne* 78:993-995. Sept.8,1950. 17 Sch9
- 15867 JEANSON, P. La mise en bouteilles. *Monit. Agr.* 3(136):7. Nov.19,1950. 14 M744  
Wine.
- 15868 KEMPF, N. W. Chocolate manufacture: Intricacies of production from beans to liquors. *Candy Indus.* 13(164):15,25. (To be cont.) Nov.21,1950. 389.8 C168
- 15869 KENTIE, A., and BARREVELD, A. Water determination in cacao and chocolate products. (In Dutch.) *Chem. Weekbl.* 46:833-836. Nov.18,1950. 385 C42
- 15870 LAURENT, R. La récolte des vins de 1950 sera supérieure à celle de 1949 et la situation du vignoble marocain s'améliore. *Inform. Marocaine* 504: 1,3. Sept.9,1950. 281.8 In3
- 15871 LEFORTAIN, M. Le marché du poivre en Indonésie. *Rev. Internat. des Prod. Colon.* 25:181-182. Oct.1950. 286.8 R326
- 15872 MARESCHALCHI, C. Schematic lines for propaganda. 2. (In Italian.) *Torchio* 1(11):4. Dec.20, 1949. 390.8 T63  
Wine.
- 15873 MASTRAS, M. Le marché des vins et le rôle de l'Union Régionale des Coopératives du Midi. *France. Min. de l'Agr. Rev. Études & Monog.* 1950:207,209-211, 213-215,217,219-221,223. Oct.1950. 281.8 F84
- 15874 MATHY, M. C. Progrès dans la fabrication du vinaigre. *Rev. des Ferment. et des Indus. Aliment.* 5: 147-153. Oct.1950. 390.08 R32
- 15875 MEDINA, A. R. DE. Coffee technology and size of the farm. (In Portuguese.) *Agron. Angolana* 3:3-16. 1950. 24 Ag83  
English summary.
- 15876 MESTRE ARTIGAS, A. Vinificación en tinto en la mediana y pequeña propiedad. *Balearic Isl. Diputación Prov. B. de Agr.* 72:8-9. Sept.1950. 15 B19
- 15877 MICKEVICZ, M. J. Can we simplify chocolate handling. *Confectioners J.* 76(911):36. Dec.1950. 389.8 C76  
Processing.
- 15878 MILHAU, J. Une enquête par sondage dans la viticulture meridionale. *France. Min. de l'Agr. Rev. Inform. Econ. et Statis.* 1950:217-221. Oct.1950. 281.8 F84
- 15879 MILISAVLJEVITCH, D. Rapport entre la densité et la teneur en sucre des mûts de Vojvodina. (In Serbian.) *Yugoslavia. Min. Poljoprivrede. Radovi Poljoprivrednih Naučno-Istraživačkih Ustanova* 1:258-263. 1949. 21.5 Y93  
French summary.
- 15880 MILOVITCH, V. Emploi des tables de Salleron pour le dosage du sucre dans les mûts de raisin. (In Croatian.) *Yugoslavia. Min. Poljoprivrede. Radovi Poljoprivrednih Naučno-Istraživačkih Ustanova* 1:264-271. 1949. 21.5 Y93  
French summary.
- 15881 MIR, R. M. Los sulfurosos en vinificación. *Cult. Mod.* 33:323-324. Sept.1950. 15 C89
- 15882 MOHORČIĆ, H. Alcoholometry of sulphurised wines. (In Croatian.) *Yugoslavia. Min. Poljoprivrede. Radovi Poljoprivrednih Naučno-Istraživačkih Ustanova* 1: 272-275. 1949. 21.5 Y93  
English summary.
- 15883 MONTHULE, P. Le broyage des pommes. *Monit. Agr.* 3(132):7. Oct.22,1950. 14 M744  
For cider manufacture.
- 15884 MORALES, J. O., and OECHSLI, P. Bases económicas para la investigación sobre cacao. *Inter-Amer. Tech. Conf. Cacao. Actas* 2:42-50. 1949. 68.39 In8As
- 15885 MORINI, M. A simple problem with a difficult solution. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:236-237. Sept.15,1950. 16 C72  
The wine industry.
- 15886 NEUNER, J. Zur heurigen lese. *Landwirtschaft* 1950:270-271. Sept.1950. 19 L235  
Manufacture in Austria.
- 15887 NISSEN, B. H. Proper handling to protect beer quality. *Brewers Digest* 25(11):35-38. Nov.1950. 390.8 B75
- 15888 PETSCHK. Der 1950er wein in Silberberg. *Österr. Weintzg.* 5:228-229. Nov.20,1950. 390.8 Os7
- 15889 PEYNAUD, E. Conservation des vins rouges. *Inform. Marocaine* 506:1-2. Sept.23,1950. 281.8 In3



- 15890 PLETZEN, J. C. VAN. Viticulture in the Cape Colony. Primary Prod. [Sydney] 26(36):23. Sept.22,1950. 281.8 P93
- 15891 PREECE, I. A. Recent developments concerning nitrogen in brewing. (Extr.) Brewers Digest 25(11):46-48. Ref. Nov.1950. 390.8 B75
- 15892 REICHART, R. Spätlese 1950 in Dürnsteln; das wirken der wnzergenossenschaft "Wachau." Österr. Weinztg. 5:227-228. Nov.20,1950. 390.8 Os7
- 15893 RENTSCHLER, H., and HAUSER, F. Über die beeinflussung des gerbstoffgehaltes von weinen durch gelatineschönung. Schweiz. Z. f. Obst- u. Weinbau 59:406-408. Oct.28,1950. 80 Sch9
- 15894 RICASOLI, L. Wine, medicine, and health. (In Italian.) Terra [Firenze] 61(43):2. Oct.22,1950. 16 T274
- Wine as food and medicine.
- 15895 RIVEROS, J. E. La uva y el vino Saint Jenet. Chacra 20(239):40-41. Oct.1950. 9 C34
- 15896 ROBERTS, F. J., and TENNEY, R. I. Trends in beer quality. III. Western brands. Mod. Brewery Age 44(5):37-38. Nov.1950. 390.8 M72
- 15897 ROSENTHAL, J. Coffee merchandising and coffee promotion. Food Canada 10(12):10,12. Dec.1950. 389.8 F7323
- 15898 SALVADOR, A. N. Clean vessels, good wine. (In Portuguese.) Frutas da Madeira 10:44-45,48. Aug.1950. 286.83 F9422
- 15899 SALZER, F., and WEBER, G. Der qualitative nachweis einiger mehrwertiger alkohole, unter besonderer berücksichtigung des 1,3-butylenglykols. Z. f. Lebensmtl.-Untersuch. u.-Forsch. 91:174-179. Ref. Sept.1950. 384 Z39
- 15900 SAVIN, G. Pressurage et conservation des vins. Révell Agr. 59:260-261. Sept.1,1950. 14 R322
- 15901 SCHANDLER, H. Ausbau und kellerbehandlung der weine unter dem gesichtspunkt ihrer redoxpotentialle. Österr. Weinztg. 5:202. Oct.10,1950. 390.8 Os7
- 15902 SCHRATT, Der weinbau auf der herbstmesse 1950. Landwirtschaft 1950:269-270. Sept.1950. 19 L235
- 15903 SEDLMAYR, F. Bockbier, kräuterhellbiere und das bayerische reinheitsgebot. Brauwelt 1950:890-891,936-938. (Cont.) Ref. Oct.19,Nov.2,1950. 390.8 B732
- 15904 SOUSA, R. DE. Short history of coffee. (In Portuguese.) Activ. Econ. de Angola 26:5-42. Sept. 1950. 280.8 Ac82
- English summary, p. 127-128.
- 15905 SPURR, C. P. Root of much evil! Fruitation 4(9):11. Oct.1950. 286.83 F949
- Whiskey from potatoes.
- 15906 URION, E. Proteolyse normale et proteolyse complémentaire. Pettit J. du Brasseur 58:890-895. Nov.17,1950. 390.8 P44
- 15907 VILLFORTH, F. Besserer most durch bessere fassbehandlung. Württemb. Wechnl. f. Landwirt. 117:796-797. Aug.26,1950. 18 W96
- 15908 VOGT, E. Der wein, seine bereitung, behandlung und untersuchung. Stuttgart, Ulmer, 1950. 234 p. 390.1 V862
- 15909 WITKIN, I. The future of cocoa. Confectioner 35(7):11. Nov.1950. 389.8 N81
- DAIRY PRODUCTS**
- 15910 ALEXANDER, W. H. Record milk production in New Orleans milkshed during 1949-50. La. Rur. Econ. 12(4):1,5-7. Nov.1950. 281.8 L93
- 15911 AMESS, A. H. R., and JOHNSON, H. C. Dairying. Ed. 3, rev. and enl. Christchurch, N. Z., Whitcombe & Tombs, 1950? 259 p. 44 Am36
- 15912 ANGULO, A. Divulgación sobre la leche. Rev. Agropecuaria del Perú 1(2):72. Apr./June 1950. 9.8 R322
- 15913 ASLAND, O. J. Impressions from England. (In Norwegian.) Meieriposten 39:711-714. (To be cont.) Oct.7,1950. 44.8 M47
- Includes the dairy industry.
- 15914 BAKKER, T. Milk production in the United Kingdom. (In Dutch.) Nederlands Melk- en Zuiveltijdschr. 4:175-196. July/Sept.1950. 44.8 N283
- English summary.
- 15915 BARLOW, F. S. Dairying in northeast Ohio. Hoard's Dairyman 95:910,924. Dec.25,1950. 44.8 H65
- 15916 BÉCHET. Rapport sur l'organisation professionnelle. Crémérie Franç. 176:21. Oct.26,1950. 44.8 C867
- 15917 BONADONNA, T., NAI, D. D., and USUELLI, F. Problems of milk and economic prospects. (In Italian.) Latte 24:291-292. (To be cont.) Sept.1950. 44.8 L35
- Italy.
- 15918 BOUTON, L. Die werteschaftenden kräfte des molkereifachmannes. Süddeut. Mol.-Ztg. 71:1199-1200. Aug.25,1950. 44.8 Su2
- 15919 BRACKMANN, K. Die milchwirtschaft Schleswig-Holsteins im 1. halbjahr 1950. Süddeut. Mol.-Ztg. 71:1063-1064. July 28,1950. 44.8 Su2
- 15920 BRESSLER, R. G. Economic outlook for dairy products. Berkeley, Calif., 1950. 4 p. 284.344 B75
- 15921 BREUER, R. Grosshandel im verbraucherland. Sonderbellage f. Nordrhein-Westfalen, p. 3. In Milch-Fettwaren-Eierhandel 2(67). Oct.10,1950. 286.85 M59
- Germany.
- 15922 BROWN, B. D. Chocolate dairy drink appeals to kids. (Abs.) Canad. Dairy & Ice Cream J. 29(11):76. Nov.1950. 44.8 C162
- 15923 BRYANT, C. B. A. Hats off to progress; "a milk organization's fieldman now is a most important person." Popkess' Dairyman's J. 37(8):6,12. Nov.1950. 44.8 D142
- Similar title in Cheese Rptr. 75(16):3. Dec.8,1950. 44.8 Sh3
- 15924 BUYER'S guide to the dairy & ice cream industries 1950. London, 1950. 406 p. 225 B982
- 15925 CAPSTICK, E. The past one hundred years. Austral. Dairy Rev. 18(10):17,22-23. (Cont.) Oct.2,1950. 44.8 Au73
- Dairy industry.
- 15926 CARNEIRO FILHO, J. J. The dairy industry in Switzerland. (In Portuguese.) B. do Leite (ser.4)4(39):3-8. (Cont.) Sept.1950. 44.8 B633
- 15927 CHOLLET, A. La production laitière française en face de l'abondance. France. Min. de l'Agr. B. Tech. d'Inform. 52:553-557. Sept.1950. 14 F844B
- 15928 CONNELLY, R. G. Virginia dairymen get set for 1951. Va. Dairyman 13(10):1-3. Nov.1950. 44.8 V81
- 15929 DANELLI, S. Domestic trade in cheese products at the present time. (In Italian.) Latte 24:334-336,338. Oct.1950. 44.8 L35
- Italy.
- 15930 DAVIDOV, R. Second All-Union Conference on the Dairy Industry. (In Russian.) Sovet. Zootekh. 5(8):92-93. Aug.1950. 49 So822
- 15931 DAVIS, J. G. Practical technical problems in the dairy industry. Buyer's Guide Dairy & Ice Cream Indus. 1950:53-72. 225 B982
- 15932 DELPECH, R. P. La lecheria argentina; panorama actual y perspectivas. Rev. de Econ. Argentina 48:144-149. July 1950. 280.8 R325
- 15933 DOMINION DAIRY CONFERENCE. Proceedings of the nineteenth conference held in Wellington, August 31, September 1, 1950. Wellington, 1950. 63 p. 44.9 D712
- 15934 EMPSON, J. D. The dairy industry of the Netherlands. Gt. Brit. Min. Agr. Agriculture 57:333-339. Oct.1950. 10 G79J
- 15935 FÉDÉRATION INTERNATIONALE DE LAITERIE. Compte-rendu des réunions des commissions internationales Amsterdam 25-29 Septembre 1950. Indus. Lait. [Paris] (n.s.)49:183-198. Oct.1950. 44.8 In2
- 15936 GASSNER. Zuchtwarte wurden ausgebildet. Allgauer Bauernbl. 18:622-623. Oct.19,1950. 18 AL53
- Dairy work instruction.
- 15937 GLUNDER, H. G. Die allgäuer milchwirtschaft. Süddeut. Mol.-Ztg. 71:1195-1198. Aug.25,1950. 44.8 Su2
- 15938 HAMILTON, T. K. Competitive spirit seen as foundation of economy. (Excerpts.) South. Dairy Prod. J. 48(6):90-91. Dec.1950. 44.8 So83
- Dairy industry.
- 15939 HANKE. Zur lehrlingsausbildung im molkerelfach. Mol.-Ztg. 4:1055-1056. Sept.7,1950. 44.8 M735
- Germany.
- 15940 HARMEL, L. Coup d'oeil sur le stockage 1950 et perspectives 1951. Voix de l'Elevage (ser.3)6(64):1-2. Oct.25,1950. 44.8 Ac8
- Butter in France.



- 15941 HEWITT, A. C. T. Increasing production in the dairy industry. Austral. Dairy Rev. 18(10):11,20-21. Oct.2,1950. 44.8 Au73
- 15942 HILL, D. H. The case for a national ice cream association. Food Indus. So. Africa 3(7):61,63,65. Nov. 1950. 389.8 F7372  
Union of South Africa.
- 15943 HOOD, A. J. G. Lait en campagne et en ville. Québec Lait. 9(10):16-17. Oct.1950. 44.8 Q3  
Dairy industry.
- 15944 JARDINE, W. Present day problems of the dairy industry. Buyer's Guide Dairy & Ice Cream Indus. 1950:73-79. 225 B982  
England.
- 15945 JENNISSSEN, L. Rheinland-Pfalz und seine milchwirtschaft. Molk.-Ztg. 4:1162-1163. Oct.5,1950. 44.8 M735  
Germany.
- 15946 JUNGE, C. Schmalz als wichtiges speisefett im Ruhrgebiet. Sonderbeilage f. Nordrhein-Westfalen, p. 8. In Milch-Fettwaren-Eierhandel 2(67). Oct.10, 1950. 286.85 M59
- 15947 KEUNE. Vier aktuelle themen für den milch-erzeuger; milchverkauf ab hof, wirtschaftseigene futter-grundlage, Tb-freie kühe, milchgeldauszahlung. Molk.-Ztg. 4(40)(sup.:Unser Milchvieh Ausg. A 2(10):1.). Oct.5, 1950. 44.8 M735
- 15948 KOVAL'CHUK, P. At Zolochevsk [cheese] factory. (In Russian.) Moloch. Promysh. 11(7):44. July 1950. 44.8 M734
- 15949 LACKNER, C. E. L'industrie laitière en Ontario. Québec Lait. 9(10):18-20. Oct.1950. 44.8 Q3
- 15950 MAHN. Zu den handelsspannen bei fettwaren und käse. Milch-Fettwaren-Eierhandel 2:299-300. Oct.13,1950. 286.85 M59  
Germany.
- 15951 MAHONEY, M. Good cows and better milk earn more for Pontotoc dairymen. Farmer-Stockman 53(11):11,21. Nov.1950. 6 Ok45  
Dairy industry in Pontotoc County, Oklahoma.
- 15952 MAYO, N., and MULLINS, T. Future growth of dairying in Florida. Fla. Poultry & Dairy J. 16(11):3, 11,19. Nov.1950. 47.8 F66
- 15953 MEIERJOHANN, R. Griff nach der flaschenmilch in Hannover. Deut. Milchhandels Ztg. 72:616-617. Oct.6,1950. 44.8 D48
- 15954 MEISSNER, F. Answers to questions concerning the Danish butter industry. Butter, Cheese & Milk Prod. J. 41(11):34,36. Nov.1950. 286.85 B98Bu
- 15955 MILK INDUSTRY FOUNDATION. Report of: 43rd annual convention. Canad. Dairy & Ice Cream J. 29(11):70,72,74,76,110. Nov.1950. 44.8 C162
- 15956 MINUT, J. La industria lechera en el Brasil. Asoc. Rur. del Uruguay. Rev. 77(10):58-61. (To be cont.) Oct.1950. 9.9 As5
- 15957 NERTINGER, J. Betriebliche finanzierungs-fragen der milchwirtschaft. Süddeut. Molk.-Ztg. 71: 1191-1194. Aug.25,1950. 44.8 Su2
- 15958 NEYHART, A. E. U. S. milk world leader, says Penn State professor. (Abs.) Canad. Dairy & Ice Cream J. 29(11):74. Nov.1950. 44.8 C162
- 15959 NIELSEN, A. R. U. S. leads Europe in dairy field. (Abs.) Canad. Dairy & Ice Cream J. 29(11):76. Nov.1950. 44.8 C162
- 15960 OBERLI, O. Milchwirtschaftliches aus dem Thurgau. Schweiz. Zentbl. f. Milchwirt. 39:228. Oct.13, 1950. 44.8 Sch93
- 15961 OWEN, F. W. The milk industry; Lancashire producers' achievements. Roy. Lancashire Agr. Soc. J. 1950:7-11. 10 L22
- 15962 PICKEL, W. Wichtige entscheidungen auf der jahrestagung des Verbandes Süddeutscher Molkereifach-leute. Süddeut. Molk.-Ztg. 71:1235-1236. Sept.1,1950. 44.8 Su2
- 15963 QUADRI, P. Livestock progress and market trends for cheese in the Parmesan producing region. (In Italian.) Latte 24:385,387. Nov.1950. 44.8 L35
- 15964 RICHARDS, P. A look ahead on butter. Amer. Butter & Cheese Rev. 12(12):20,38-41. Dec.1950. 44.8 Am37
- 15965 RICHARDS, P. What the defense effort means to dairying. Washington, U. S. Prod. & Mktg. Admin., 1950. 11 p. 1.956 A2R39  
Talk before the National Milk Producers' Federation, Minneapolis, Nov. 14, 1950.
- 15966 RINDERLE, P. J. New Orleans comes of age. Amer. Milk Rev. 12(11):42-43,65. Nov.1950. 44.8 Am38  
Dairy industry.
- 15967 RINGEN, J. The position of the milk industry—from the point of view of supply and economics. (In Norwegian.) Buskap og Avdrätt 1950(3):5-10. 49 B96
- 15968 ROEDER, G. Massnahmen zur förderung der milchwirtschaft. Süddeut. Molk.-Ztg. 71:1092-1094,1129-1130. Ref. Aug.4-11,1950. 44.8 Su2
- 15969 ROLAND, A. The dairy business comes to Indonesia. Amer. Milk Rev. 12(12):54-55. Dec.1950. 44.8 Am38
- 15970 RUPP, E. Milk cows increase your acre income. Kans. Farmer 87(21):10,12. Nov.4,1950. 6 K13  
Dairy industry in Kansas.
- 15971 RUSSELL, M. Grade A milk + pasture = \$1 million; Morgan County [Colorado] has greatly increased its profits from dairying. Colo. Rancher & Farmer 4(21): 1,6. Nov.11,1950. 6 C714
- 15972 SCAPACCINO, M. On the Lodi dairy fair. (In Italian.) Agr. Ital. 1:518-520. Oct.15,1950. 16 Ag822  
English summary.
- 15973 SCHIEFERENZ, J. Die volkswirtschaftliche bedeutung des grosshandels mit molkereierzeugnissen, fettwaren und eiern in Nordrhein-Westfalen. Sonderbeilage f. Nordrhein-Westfalen, p. 4-5. In Milch-Fettwaren-Eierhandel 2(67). Oct.10,1950. 286.85 M59
- 15974 SENS. Auf einer studienreise in Holland. Deut. Milchhandels Ztg. 72:599. Sept.29,1950. 44.8 D48  
Observations on the dairy industry.
- 15975 SOLLBERGER, W. L'utilisation du lait en Suisse. Bas-Rhin Agr. 5:481-482. Oct.7,1950. 14 B29  
Production situation.
- 15976 SPEINLE, X. Wie denkt der molkereifachmann—? Süddeut. Molk.-Ztg. 71:1200-1202. Aug.25, 1950. 44.8 Su2
- 15977 STIGLOHER, M. Grosskundgebung des Milch-wirtschaftlichen Vereins im Allgäu. Süddeut. Molk.-Ztg. 71:1233-1235. Sept.1,1950. 44.8 Su2
- 15978 SVENSKA MEJERIERNAS RIKSFÖRENING, STOCKHOLM. The dairy industry in Sweden. Halmstad, 1949. 77 p. 281.344 Sv2
- 15979 SWENSON, H. F. Soft ice cream—its place in our industry. Ice Cream Rev. 34(5):84,86,88-89. Dec. 1950. 389.8 Ic22
- 15980 THOMANN, W. Die käseproduktion im winter 1949/50. Schweiz. Milchztg. 76:565-566. Nov.10,1950. 44.8 Sch92
- 15981 THOMSEN, H. Joghurt. Molk.-Ztg. 4:1107-1109,1139-1140. (Cont.) Sept.21-28,1950. 44.8 M735
- 15982 TRENDTEL, F. Milchversorgung in der Schweiz und—bei uns. Deut. Milchhandels Ztg. 72:582, 584. Sept.22,1950. 44.8 D48
- 15983 TRIGG, R. S. The defense effort; how will mobilization affect the dairy industry? South. Dairy Prod. J. 48(6):23,100-102. Dec.1950. 44.8 So83
- 15984 TYRER, T. G. Ambassadors of good dairying. Hoard's Dairyman 95:922. Dec.25,1950. 44.8 H65  
New Zealand dairymen to study the industry in the United States.
- 15985 VESA, I. Modelo de industria lechera. Hacienda 45(12):34-35. Dec.1950. 6 H11  
Cuba.
- 15986 WINTERS, S. R. A county cooperative creamery. Hoard's Dairyman 95:790-791. Nov.10,1950. 44.8 H65
- 15987 ZIMMERMAN, C. More income—less erosion; farmers in Missouri county profit in two ways when they switch to quality milk production. Capper's Farmer 61(12):13,56. Dec.1950. 6 M693  
Dairy industry in Mercer County.

#### Analysis and Composition

- 15988 BELOUSOV, A. Optimum levels of active acidity in cheese after pressing. (In Russian.) Moloch. Promysh. 11(7):7-12. July 1950. 44.8 M734
- 15989 BERGUM, A. T. Undersøkelsar over melkesukkerets krystallisasjon i mysost [Investigation on the crystallization of milk sugar in whey cheese]. Norway. Statens Meieriforsøk. Beret. 41,54 p. Ref. 1950. 44.9 N83
- 15990 BRAND, K. Über arylamide der l(+)-milch-säure und deren therapeutische wirkung. (Abs.) Angew. Chem. 62:447. Oct.7,1950. 384 Z33



15991 BRUNNER, J. R. The effectiveness of some antifoaming agents in the condensing of skim milk and whey. *J. Dairy Sci.* 33:741-746. Oct. 1950. 44.8 J822

15992 DEMETER, K. Weiteres zur Wirkung von Penicillin und anderen antibiotischen Mitteln auf Milch- und Käsemikroorganismen. *Süddeut. Mol.-Ztg.* 71:1128-1129. Aug. 11, 1950. 44.8 Su2

15993 DEVI, P., and RAY, S. C. Estimation of peroxides in ghee by the ferric thiocyanate method. *Cur. Sci.* 19:243-244. Aug. 1950. 475 Sci23

15994 HAAN, A. DE, and EISSES, J. An exact method for testing butyrometers for milk and for cheese. *Nederlands Melk- en Zuiveltijdschr.* 4:225-234. July/Sept. 1950. 44.8 N283

15995 HEINEMANN, B., and ROHR, M. R. A micro-method for routine determinations of fat in skim milk and nonfat dry milk solids. *J. Dairy Sci.* 33:703-709. Oct. 1950. 44.8 J822

15996 HERREID, E. O., and others. Standardizing the Babcock test for milk by increasing the volume of the sample and eliminating the meniscus on the fat column. *J. Dairy Sci.* 33:685-691. Ref. Oct. 1950. 44.8 J822

L. H. Burgwald, B. L. Herrington, E. L. Jack, joint authors.

15997 HONER, C. J., and HERZER, F. H. Composition of milk from seven areas of Mississippi studied. *Miss. Farm Res. [Miss. Sta.]* 13(10):2-4. Oct. 1950. 100 M69Mi

15998 ISIDORO, R., and BONARELLI, V. Contribution to the knowledge of Italian sheep's milk butters mixed with cow's butter. (In Italian.) *Latte* 24:373-374. Nov. 1950. 44.8 L35

Analysis.

15999 KAUFMANN, H. P., BALTES, J., and SIBBEL, B. Zur Kenntnis der Phosphatide in Lebensmitteln. I. Der Phosphatidgehalt von Milch und Milchzeugnissen. *Fette u. Seifen* 52:600-609. Ref. Oct. 1950. 384 C422

16000 KNIGHT, S. G. Los mohos en la lecheria. *Hacienda* 45(12):42. Dec. 1950. 6 H11

16001 KRUKOVSKY, V. N., WHITING, F., and LOOSLI, J. K. Tocopherol, carotenoid and vitamin A content of the milk fat and the resistance of milk to the development of oxidized flavors as influenced by breed and season. *J. Dairy Sci.* 33:791-796. Ref. Nov. 1950. 44.8 J822

16002 MCKERROW, G. W. Milk testing improves quality. (Abs.) *Canad. Dairy & Ice Cream J.* 29(11):76. 110. Nov. 1950. 44.8 C162

16003 MÖLLER, E. F. Die Bedeutung der Wachstumsstoffe im Stoffwechsel der milchsäurebakterien. *Milchwissenschaft* 5:359-362. (Concl.) Ref. Oct. 1950. 44.8 M5933

English summary.

16004 O'MEARA, J. P. A complete sediment test. *Dairy World [Chicago]* 29(5):16-18. Oct. 1950. 44.8 D1423

16005 POTTER, F. E. A colorimetric method for the quantitative determination of the degree of lactose hydrolysis. *J. Dairy Sci.* 33:803-808. Nov. 1950. 44.8 J822

In dairy products.

16006 POZDNIAK, F. Accomplishments in the raw material zone. (In Russian.) *Moloch. Promysh.* 11(7):45. July 1950. 44.8 M734

Milk fat content analysis at collection places.

16007 SAITO, M. Chichi to nyuseihin no kagaku [Chemistry of milk and dairy products]. Tokyo, Chikyu Shuppan, 1949. 574 p. 44 Sa24

16008 STOLTZ, E. I., and HANKINSON, D. J. A test for the detection of antibiotics in milk. *Amer. Milk Rev.* 12(12):60-63. Ref. Dec. 1950. 44.8 Am38

16009 TALCE, D. Stockflecken auf der Butter. *Süddeut. Mol.-Ztg.* 71:1292-1293. Sept. 15, 1950. 44.8 Su2

16010 TIERSMA, P., VENEKAMP, J. T. N., and KRUISHEER, C. I. The detection and determination of neutralizing agents and/or lactic acid in liquid milk and dried milk. II-III. *Nederlands Melk- en Zuiveltijdschr.* 4:158-174. July/Sept. 1950. 44.8 N283

II, The colorimetric determination of lactate according to Heinemann, by P. Tiersma and J. T. N. Venekamp; III, A colorimetric routine method for the estimation of lactic acid (lactate) in milk and dried milk, by J. T. N. Venekamp and C. I. Kruisheer.

16011 WINSLOW, J. T. The fat test of samples taken from weigh cans. *Cherry-Burrell Circle* 1950:20-21. Nov./Dec. 1950. 44.8 C42

### Consumption and Utilization

16012 COOK, H. L., and HALVORSON, H. Industrial uses and preferences for nonfat dry milk solids. *Wis. Agr. Expt. Sta. Res. B.* 169,47 p. Aug. 1950. 100 W75

16013 COTTON, W. P. Consumption of dairy products in rural North Carolina. *N. C. Agr. Expt. Sta. B.* 372,30 p. Oct. 1950. 100 N81

16014 MACFARLANE, I. Butter, other fats and oils: consumption in the United Kingdom. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 3:99-104. July 1950. 281.9 Au73

16015 NATIONAL CONSUMER-RETAILER COUNCIL. Milk and cheese. *Natl. Consum.-Retailer Council. Key Wise Buying* 121,4 p. 1950. 280.9 N2126K

16016 TALLARICO, G. About the industrial as well as stable utilization of goat's milk. (In Italian.) *Mondo del Latte* 1950:457-461. Sept. 1950. 44.8 M74

### Distribution, Marketing, and Transportation

16017 ALBERTARIO, P. The butter market. (In Italian.) *Glor. di Agr.* 60:307. Oct. 1, 1950. 16 It1G

16018 ALMEIDA, O. DE. The cooperative dairy problem. (In Portuguese.) *Cooperativismo [Rio de Janeiro]* 5(52):7-8, 18-19. Oct. 1950. 280.28 C7856

16019 BEAL, MRS. D. A. Miracle milk. *Dairy Goat News* 12(6):6. Dec. 1950. 40.18 Am34

Processed goat's milk distributed by California Goat Dairymen's Association, a cooperative.

16020 BOCKLEIN, H. Wir und die Milchwerbung! *Süddeut. Mol.-Ztg.* 71:1204-1205. Aug. 25, 1950. 44.8 Su2

16021 BURTON, R. C. The school bell is an opportunity. *Amer. Milk Rev.* 12(11):50-51. Nov. 1950. 44.8 Am38

Milk promotion.

16022 CAVANAGH, D. Good employees key to public relations. (Abs.) *Canad. Dairy & Ice Cream J.* 29(11):74. Nov. 1950. 44.8 C162

16023 CONNECTICUT WHOLESALE MILK PRODUCERS COUNCIL. Annual report for the year 1950. *Brookfield Center*, 1950. 10 p. 281.3449 C762

16024 DICKIE, R. A six point program for expanding use of dried milk. *Amer. Butter & Cheese Rev.* 12(12):22-25, 41-42. Dec. 1950. 44.8 Am37

16025 DIFFENBACK, G. G. Home milk delivery popular despite store sales trend. (Abs.) *Canad. Dairy & Ice Cream J.* 29(11):110. Nov. 1950. 44.8 C162

16026 ENID COOPERATIVE CREAMERY ASSOCIATION. "Sixty million pounds of butter"; a graphic history of the first 20 years of Enid Cooperative Creamery Association. *Gold Spot News* 9(8), 32 p. Aug. 1950. 280.28 G56

16027 FANALD, L. Milk flies to Alaska. *Amer. Milk Rev.* 12(12):48, 72. Dec. 1950. 44.8 Am38

16028 FAULHABER, F. V. An ad has little value unless you build it so they read it. *Amer. Milk Rev.* 12(11):38, 40. Nov. 1950. 44.8 Am38

16029 FORSTER, F. Ohne grosshandel keine reibungslose fettversorgung. Sonderbeilage f. Nordrhein-Westfalen, p. 1. In *Milch-Fettwaren-Eierhandel* 2(67). Oct. 10, 1950. 286.85 M59

Butter and cheese in Germany.

16030 FRENCH, C. E. Sampling dairy plants to study efficiency of receiving room operations. In *U. S. Agricultural Research Admin. Marketing margins and efficiency*, p. 81-85. Washington, 1950. 1.98 M343

16031 GMELIN, W. Trinkmilch-werbung einmal anders! *Süddeut. Mol.-Ztg.* 71:1265-1266. Sept. 8, 1950. 44.8 Su2

16032 GOLDSTEIN, E. Ice cream clinics and their relationship to sales. *Canad. Dairy & Ice Cream J.* 29(11):84. Nov. 1950. 44.8 C162

16033 HAMILTON, T. K. Political attacks on milk industry mislead consumers. (Abs.) *Canad. Dairy & Ice Cream J.* 29(11):70, 73. Nov. 1950. 44.8 C162

16034 HEIDEBRECHT, W. Das preis ausschreiben im rahmen der milchwerbung. *Süddeut. Mol.-Ztg.* 71:1066. July 28, 1950. 44.8 Su2

16035 HERZ, H. Grossstädtische milchversorgung von einer anderen seite. *Süddeut. Mol.-Ztg.* 71:1552-1553. Nov. 3, 1950. 44.8 Su2

16036 HOFER, H. Zur kenntnis des milchsammel-systems und der milchanlieferungsverhältnisse in der Schweiz. *Schweiz. Milchztg.* 76:557. Nov. 3, 1950. 44.8 Sch92



16037 HOWALD, O. Der stand der milchverwertung und die voraussichtliche gestaltung der milchpreise im jahre 1950/51 in den europäischen staaten. Agrarpolit. Rev. 7:100-115. Oct./Nov.1950. 281.8 Ag824

16038 HOWE, D. K. Nation's leaders shape America's food habits—they follow the voice of NDC [National Dairy Council]. Dairy World [Chicago] 29(5):26-28. Oct.1950. 44.8 D1423

16039 HOWE, D. K. Sales power—blueprint for better business. Butter, Cheese & Milk Prod. J. 41(11):31,41. Nov.1950. 286.85 B98Bu

Public relations in the dairy industry.

16040 HÜNNECKE, F. W. Ordnung in der marktwirtschaft. Sonderbeilage f. Nordrhein-Westfalen, p. 1-2. In Milch-Fettwaren-Eierhandel 2(67). Oct.10,1950. 286.85 M59  
Germany.

16041 INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS. Advertising analysis, 1948. Internatl. Assoc. Ice Cream Mfr. Spec. B. 77,48 p. Sept.1950. 389.9 In83S

16042 KELLY, N. D. Sales are made—not born. Pacific Dairy Rev. 64(11):26. Nov.1950. 286.85 P11  
Advertising.

16043 KEUNE. Steigerung des trinkmilch-absatzes. Deut. Landwirt. Presse 73(21):13. Oct.7,1950. 18 D482

16044 KUJATH, K. Was macht die käsewerbung? Süddeut. MolK.-Ztg. 71:1127. Aug.11,1950. 44.8 Su2

16045 LICHTENBERGER. Absatz molkereimässig bearbeiteter milch. Deut. Milchhandels Ztg. 72:596-598. Sept.29,1950. 44.8 D48  
Germany.

16046 MAYR, J. Milchaufkommen und frischmilchbedarf in Oberbayern. Süddeut. MolK.-Ztg. 71:1553-1555. Nov.3,1950. 44.8 Su2

16047 MEENEN, H. J. Problems facing the fluid milk market in Arkansas. Ark. Agr. Col. Ext. Ark. Agr. Ext. Econ. 9(11):1-2,4. Nov.1950. 275.29 Ar4Ark

16048 MERKT. Börseneinrichtungen im dienste der milchwirtschaft. Süddeut. MolK.-Ztg. 71:1160-1161. Aug.18,1950. 44.8 Su2

16049 PARTAIN, L. E. Marketing trends in the food industry [with special regard to the butter industry]. Philadelphia, Curtis, Research Dept., 1949? 12 p. 280.32 P25

16050 PEPPERALL, R. A. Striking contrasts in Kenya's dairy industry; milk distributing system at fault. So. African Dairyman 12:297. Oct.1950. 44.8 So822

16051 SACCO, P. For the price of milk; the importance of agricultural cooperation. (In Italian.) Rinascita Agr. 5(20):2. Aug.15,1950. 281.8 R47  
Italy.

16052 SCATTOLIN, L. L. Ice cream is milk. (In Italian.) Rinascita Agr. 5(20):2. Aug.15,1950. 281.8 R47  
Public relations for Italy.

16053 SCHIEFERENZ, J. Die landesverbände in der marktwirtschaft. Sonderbeilage f. Nordrhein-Westfalen, p. 6-7. In Milch-Fettwaren-Eierhandel 2(67). Oct.10, 1950. 286.85 M59  
Germany.

16054 SCHÜTTAUF, A. W. Schwieriger westeuropäischer buttermarktausgleich. Milch-Fettwaren-Eierhandel 2:295. Oct.10,1950. 286.85 M59

16055 TRENDTEL. Die milchpropaganda und ihre wirkungsvolle gestaltung. MolK.-Ztg. 4:1037-1041. Sept.7,1950. 44.8 M735

16056 VESELY, L. Publicity. (In Italian.) Latte 24: 298,304. Sept.1950. 44.8 L35  
Italy.

16057 VIOUX, M. La situation du marché et son évolution probable. (Extr.) Vie Lait. 6(119):4. Nov.10, 1950. 44.8 V67

Butter and cheese in France.

16058 WOOD, C. A. Dairy industry has job to do in promoting sales of products. Cheese Rptr. 75(14):3,6. Nov.24,1950. 44.8 Sh3

Similar title in Confectionery-Ice Cream World 44(22): 12. Dec.1,1950. 389.8 C767

Public relations.

16059 ZURECK, F. Der milcherzeuger-zusammenschluss in England (the Milk Marketing Board). Süddeut. MolK.-Ztg. 71(36):inside front cover. Sept.8,1950. 44.8 Su2

### Grading, Inspection, Standardization, and Quality

16060 ANDERSON, W. S. Quality milk production under the Penn. dairy farm inspection program. Amer. Milk Rev. 12(11):44-45,68. Nov.1950. 44.8 Am38

16061 BINDER, F. L. Durch qualitätskontrolle der milch zur qualitätsförderung. MolK.-Ztg. 4:1105. Sept.21,1950. 44.8 M735  
Germany.

16062 BLANKENBURG, E. Betrachtungen über die qualität der milchwirtschaftlichen erzeugung in Sachsen-Anhalt. Süddeut. MolK.-Ztg. 71:1060-1062. July 28,1950. 44.8 Su2

16063 CLABORN, H. V., BECKMAN, H. F., and WELLS, R. W. Contamination of milk from DDT sprays applied to dairy barns. J. Econ. Ent. 43:723-724. Oct. 1950. 421 J822

16064 DEMMLER. Praktische versuche zur qualitätsmilcherzeugung. Süddeut. MolK.-Ztg. 71:1028-1029. July 21,1950. 44.8 Su2

16065 ENTWISTLE, C. C. Training a milk judging team. Agr. Educ. Mag. 23:106. Nov.1950. 275.8 Ag8

16066 FRENEAU, F. Aspecto gubernamental del problema higienico y sanitario que plantea el abasto de leche y derivados en el país. La Plata. U. Nac. Facul. de Agron. Rev. 27:113-114. Dec.1949. 9 R32  
Argentina.

16067 GRAY, A. W. The test of reasonableness; with this yardstick in hand many milk ordinances find the going pretty rough—and sometimes the courts don't help. Amer. Milk Rev. 12(11):14,16,61. Nov.1950. 44.8 Am38

16068 KEESTRA, F. Pasteurization temperature and the quality of the product. (In Dutch.) Alg. Nederland. Zuivelbond. Off. Orgaan 42:423-424. (To be cont.) Sept. 6,1950. 44.9 AL3

Dairy products.

16069 LARSSON, E. L. Our cheese problem. (In Swedish.) Ladugården 1950(9):272-273. Sept.1950. 44.8 L12

Chiefly on quality.

16070 MUNDINGER, E. Butterfehler—ihre ursachen und ihr nachweis. MolK.-Ztg. 4:1031-1032,1034. Ref. Sept.7,1950. 44.8 M735

16071 PETERSEN, N. Bewertung von konsummilch nach eiweiss- und vitamin Gehalt. MolK.-Ztg. 4:1138. Sept.28,1950. 44.8 M735

16072 PETERSEN, N. Über den einfluss schwerer metallsalze auf die haltbarkeit der butter. Fette u. Seifen 52:618-619. Oct.1950. 384 C422

16073 QUADRI, P. Maladies and flaws of the Parmesan cheese. (In Italian.) Mondo del Latte 1950:465-468,471-472. Sept.1950. 44.8 M74

16074 ROEDER, G. Wo liegt die tuberkulose-gefahr? MolK.-Ztg. 4:1165-1168. Ref. Oct.5,1950. 44.8 M735

16075 SEELEMANN, M. Die bedeutung der milch für das auftreten sogenannter Tb-infektionen bei tieren und menschen. MolK.-Ztg. 4:1175-1177. Oct.5,1950. 44.8 M735

16076 THIEULIN, G. Le lait pasteurisé certifié hygiénique. Indus. Lait. [Paris] (n.s.)49:199-201. Oct. 1950. 44.8 In2

16077 THOMANN, W. Klärung in der milchdiskussion? Grüne 78:1154-1159. Oct.20,1950. 17 Sch9

Quality, care and handling, and standardization in Switzerland.

16078 TROFIMOVA, N. Acidity and quality of brynza [sheep's milk cheese]. (In Russian.) Moloch. Promysh. 11(7):22-23. July 1950. 44.8 M734

16079 WAGNER, M. W. Zur kritik an der qualität der milch. Agrarpolit. Rev. 7:116-124. Oct./Nov.1950. 281.8 Ag824  
Switzerland.

16080 ZAKARIASEN, B. M. Sanitation and its relation to "cheesy" flavor in sweet cream butter. Butter, Cheese & Milk Prod. J. 41(11):24-25,47. Nov.1950. 286.85 B98Bu

16081 ZATTA, P. L. Foot and mouth disease and use of suspect and impure milk. (In Italian.) Latte 24: 294,296. Sept.1950. 44.8 L35

### Packing and Packaging

16082 CRONSHAY, R. H. Automatic milk tank washing. Creamery Coop. [Los Angeles] 1950:15-17. Dec. 1950. 280.28 C86



16083 FENDRICK, L. R. Milk containers—paper or glass. *Coop. Digest* 11(5a):8-9,26. Nov.15,1950. 280.28 C7896

16084 MEINERT, A. Der vakuumflüssigkeitsheber für flaschenabfüllung. *Süddeut. MolK.-Ztg.* 71:1163. Aug.18,1950. 44.8 Su2

16085 MEISSNER, F. Milk moves in paper now. *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 5:74-75. Nov. 1950. 275.28 I694

16086 MOLDAVAN, A. Dairy cases; efficient operation of a dairy depends to a great extent upon the proper utilization of cases. *Canad. Dairy & Ice Cream J.* 29(11): 45-46. Nov.1950. 44.8 C162

Bottle cases.

16087 NUPSON, H. N. Looking at can washing operations. *Amer. Milk Rev.* 12(12):41-43,73. Dec.1950. 44.8 Am38

#### Prices, Price Control, and Rationing

16088 BÖCKLEIN, H. Auch Holland erhebt einen milchpfennig. *Allgäuer Bauernbl.* 18:603-604. Oct.12, 1950. 18 AL53

16089 BRÉART, G. Die milch und ihre verwendung; perspektiven der inlandspreise 1950-51. *Bas-Rhin Agr.* 5:545. Nov.11,1950. 14 B29

16090 COSMA, G. Payment for milk in Sweden and Denmark. (In Italian.) *Rinascita Agr.* 5(12):2. Apr.15, 1950. 281.8 R47

16091 THE ELWELL Plan for pricing milk. *Amer. Milk Rev.* 12(11):8,10,60-61. Nov.1950. 44.8 Am38

16092 FEDDERSON, H. C. The classified price plan. *Kans. City Coop. Dairyman* 20(8):3-5. Aug.1950. 280.28 K13

Milk.

16093 FOREST, H. L. Milk pricing problems in Federal markets. (Abs.) *Canad. Dairy & Ice Cream J.* 29(11):72,74. Nov.1950. 44.8 C162

16094 GMELIN, Die rechnung mit dem stallverkauf stimmt nicht. *Bad. Landwirt. Wchnbl.* 117:661. Sept.30, 1950. 18 W96

Milk prices.

16095 HÖLLERICH, R. Gedanken zur qualitätsbezahlung der milch. *Plug* 3:169. Aug.1950. 19 P48

Austria.

16096 JARDINE, R. H. Predicts higher butter prices. *Rur. Co-op.* 14(21):7. Aug.22,1950. 280.28 R88

Canada.

16097 KORELL, W. Milchpreis-ausgleich und stützung im lande Nordrhein-Westfalen. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1276-1277. Sept.14,1950. 18 L2346

16098 NOMINE, H. Festsetzung des winter-milchpreises; bericht über die sitzung der Konsultativen Kommission für Milchpreisfestsetzung. *Bas-Rhin Agr.* 5:483. Oct.7,1950. 14 B29

16099 NOMINE, H. Gedanken zur milchpreisfestsetzung. *Bas-Rhin Agr.* 5:481-482. Oct.7,1950. 14 B29

16100 THOMSEN, L. C. High wage rates affect milk prices. (Abs.) *Canad. Dairy & Ice Cream J.* 29(11): 110. Nov.1950. 44.8 C162

#### Processing and Storage

16101 AHLF, H. Qualitätsmilch nur durch gute kühlung. *Deut. Milchhandels Ztg.* 72:613. Oct.6,1950. 44.8 D48

16102 ASLAND, O. J. Impressions from England. (In Norwegian.) *Meieriposten* 39:727-732. Oct.14,1950. 44.8 M47

Milk sanitation and distribution.

16103 BLIN, H. Traitement des beurres defectueux: rancissure et amertume. *Monit. Agr.* 3(132):2. Oct.22, 1950. 14 M744

16104 BÖCKLEIN, H. Ausreichende erhitzung der rückgabemilch grundbedingung! *Süddeut. MolK.-Ztg.* 71 (38):inside front cover. Sept.22,1950. 44.8 Su2

16105 CARPENTER, J. Modern wholesale ice cream manufacture. *Biscuit Maker & Plant Baker* 1: 286-288,290. Oct.1950. 389.8 B54

16106 CASLER, H. S. Les agents émulsifs et leur rôle dans la crème glacée. *Québec Lait.* 9(10):47,49. Oct.1950. 44.8 Q3

16107 CHEKULAEVA, L. Calculations and standards in the processing of condensed and dried skim milk. (In Russian.) *Moloch. Promysh.* 11(7):14-19. July 1950. 44.8 M734

16108 COLLINS, W. F. The effect of some alkalies and stabilizing salts on the acidity and the viscosity of ice cream mixed when certain stabilizers are used. *Ann Arbor, U. Microfilms*, 1949. Ref. (P. 1438) Film 94 Thesis—Pennsylvania State College.

16109 COLLISSON, C. F. Dry milk pours from the country's plants. *Amer. Butter & Cheese Rev.* 12(11): 12-14,16,33. Nov.1950. 44.8 Am37

16110 CORASH, P. A new look at old problems—milk plant equipment and sanitation. *Assoc. Food & Drug Off. U. S. Q. B.* 14:146-151. Oct.1950. 389.9 As7Q

16111 EHRlich, G. Molkerei und milchhygiene. *MolK.-Ztg.* 4:1173-1174. Oct.5,1950. 44.8 M735

16112 ELLIKER, P. R. Bacteriophage—the invisible enemy of starters! *Butter, Cheese & Milk Prod. J.* 41 (12):28-30,46. Dec.1950. 286.85 B98Bu

Cheese and cultured milk starters.

16113 GRAY, N. It will pay you to observe these instructions on producing grade A milk. *Butter-fat [Vancouver]* 28(8):8-9. Nov.1950. 44.8 B98

Sanitation.

16114 HALTENBERGER, O. K. Die käseausbeute und deren abhängigkei vom fettgehalt der vollmilch. *Süddeut. MolK.-Ztg.* 71:1519-1521. Oct.27,1950. 44.8 Su2

16115 HANNAH DAIRY RESEARCH INSTITUTE. Report for the three years ending 31st March, 1950. *Kirkhill*, 1950. 30 p. 44.9 H19

16116 HARMSSEN, W. L., and ZEE, C. Leerboek voor de melkhandel en de zuivelbereiding [Textbook for the milk trade and dairy manufacture]. *Middelburg, Boer*, 1950. 277 p. 44 H223

16117 HARRINGTON, L., and HARRINGTON, R. On the Gourmet's trail. *Family Herald & Wk. Star* 81(45):5, 16. Nov.9,1950. 7 F21

Cheese production in Quebec.

16118 HERVEY, C., and VINE, V. Big news for dairymen. *Farm J.* 74(12):34-35,131. Dec.1950. 6 F2212

Milk concentrate.

16119 INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS. Cabinet preference analysis 1950. *Internatl. Assoc. Ice Cream Mfr. Spec. B.* 78,10 p. Nov.1950. 389.9 In83S

16120 IUDINOVA, A. Methods for culturing kefir yeasts. (In Russian.) *Moloch. Promysh.* 11(7):28-29. July 1950. 44.8 M734

16121 JARROUSSE, H., and others. Contribution à l'étude de l'influence des procédés de fabrication et des conditions d'entreposage sur la conservation en frigorifique des beurres pasteurisés. *SPEL: B. Int. d'Inform. et de Doc.* 5(7):26-36. Ref. Aug./Sept.1950. 44.8 Spl

R. Velsseire, G. Faurot de Lamothe, and C. Salles, joint authors.

16122 KOSIKOWSKY, F. V. Better cheese may come from new research methods. *Farm Res. [N. Y. State Sta.]* 16(4):7. Oct.1950. 100 N48A

16123 KRUK, H. Praktische käserel: holländer käse. *MolK.-Ztg.* 4:1044-1045. (Cont.) Sept.7,1950. 44.8 M735

Gouda.

16124 KRUSE, H. Zur hygiene des speiseeises. *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 91:237-248. Ref. Oct.1950. 384 Z39

16125 KUNERT, P. Die süsrahm-Alfa-buterei. *Süddeut. MolK.-Ztg.* 71:1330-1331. Sept.22,1950. 44.8 Su2

16126 LANGE, W. Sterilisierte kaffeesahne. *Süddeut. MolK.-Ztg.* 71:1262-1263. Sept.8,1950. 44.8 Su2

16127 LANGE, W. Die süsgerinnung roher milch; ursache, wirkung und abhilfe. *Allgäuer Bauernbl.* 18: 318. Oct.19,1950. 18 AL53

16128 LINDNER, A. F. Beiträge zur frage der neutralisierung von milch. *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 91:81-91. Aug.1950. 384 Z39

16129 LLOYD, R. L. Corn syrup solids in ice cream. *South. Dairy Prod. J.* 48(6):116-117,120,122-123. Dec.1950. 44.8 So83

16130 LOO, C. C., SLATTER, W. L., and POWELL, R. W. A study of the cavitation effect in the homogenization of dairy products. *J. Dairy Sci.* 33:692-702. Ref. Oct.1950. 44.8 J822

16131 MANFREDI, M. A timely inquiry. (In Italian.) *Latte* 24:343. Oct.1950. 44.8 L35

Costs of using stainless steel in the dairy industry.



16132 MENGEIER. Aus der geschichte der sauer-milch-käseerei. Molch.-Ztg. 4:1045. Sept.7,1950. 44.8 M735

16133 MILIUTIN, G. Speeding up the [butter] manufacturing process. (In Russian.) Moloch. Promysh. 11(7):6-7. July 1950. 44.8 M734

16134 MIRONCHIK, V. Factors which determine the keeping quality of butter. (In Russian.) Moloch. Promysh. 11(7):13. July 1950. 44.8 M734

16135 MOHR, W. Qualitätsforschung im dienste der milchwirtschaft. Molch.-Ztg. 4:1169-1173. Oct.5,1950. 44.8 M735

Includes pasteurization, sanitation of equipment, homogenization, and fortification of milk.

16136 MOHR, W., and KOENEN, K. Störung der sauerrahmbutterherstellung aus milch mit penicillin getimpfter kälbe. Molch.-Ztg. 4:1035-1036. Sept.7,1950. 44.8 M735

16137 MOLDOVAN, A. H. T. S. T. pasteurization for laboratory samples. Canad. Dairy & Ice Cream J. 29(11):91. Nov.1950. 44.8 C162

16138 MÜLLER, E. Milchkonzentrate und pulvermilchpräparate in der säuglingsernährung und ihre vitaminisierung mit vitamin D. Milchwissenschaft 5:353-359. (Concl.) Ref. Oct.1950. 44.8 M5933

English summary.

16139 MYRICK, N. Equipment prospects obscure as defense plans gain momentum. Amer. Butter & Cheese Rev. 12(12):6,8. Dec.1950. 44.8 Am37

Similar title in Amer. Milk Rev. 12(12):52,66. Dec. 1950. 44.8 Am38

16140 NEMTSEV, N. Utilization of vacuum equipment. (In Russian.) Moloch. Promysh. 11(7):36-38. July 1950. 44.8 M734

In dried skim milk production.

16141 NIKOLAEV, A. On ripening of zieger and green cheese. (In Russian.) Moloch. Promysh. 11(7):27. July 1950. 44.8 M734

16142 OLSON, H. C. Methods for preparing cream for frozen storage. Ice Cream Rev. 34(5):94-97. Dec. 1950. 389.8 Ic22

16143 PAKHIRKO, A., and SELISHCHEV, I. Regulating the water content in butter produced in a churn of continuous motion. (In Russian.) Moloch. Promysh. 11(7):38-40. July 1950. 44.8 M734

16144 PETTE, J. W., and LOKEMA, H. Yoghurt. I-II. (In Dutch.) Nederlands Melk- en Zuivelijdschr. 4:197-224. July/Sept.1950. 44.8 N823

English summary.

I, Symbiosis and antibiosis in mixed cultures of Lb. bulgaricus and Sc. thermophilus; II, Growth stimulating factors for Sc. thermophilus.

16145 PICARD, A. J. Le lait; préparons-nous par une action concertée à la distribution rationnelle d'un lait sain. Agr. Charentais 5(20):1. Oct.31,1950. 14 Ag825

16146 PIEN, J. La fabrication des crèmes glacées et le décret du 29 mars 1949. Ann. des Falsif. 43:101-103. Apr./June 1950. 389.8 An72

France.

16147 POPOV, I., and MALUSHKO, V. A high level of sanitation. (In Russian.) Moloch. Promysh. 11(7):24-26. July 1950. 44.8 M734

Teaching sanitation in cheese manufacture.

16148 PYENSON, H., and TRACY, P. H. Vanillas as antioxidants in powdered ice cream mixes. J. Dairy Sci. 33:815-819. Nov.1950. 44.8 J822

16149 RAINES, M. L. The use of fats other than butterfat in ice cream. Assoc. Food & Drug Off. U. S. Q. B. 14:137-142. Oct.1950. 389.9 As7Q

16150 REED, O. E. New developments in dairy research. U. S. Bur. Dairy Indus. BDI-Inf-112,7 p. Oct. 1950. 1.973 D4B34

Remarks at meeting of the Vermont Dairy Plant Operators and Managers Association, Burlington, Oct. 26, 1950.

16151 LA REFRIGÉRATION du lait à la ferme. Rev. Prat. du Froid 6:21-23. (Cont.) Oct.1950. 295.8 R323

16152 REYES, P. Fabricación de mantequilla. Agr. Costarricense 7:371-382. (Cont.) Sept./Oct.1950. 8 Ag895

16153 ROEDER, G. Was soll mit der ansauren milch geschehen? Süddeut. Molch.-Ztg. 71:1259-1262. Ref. Sept.8,1950. 44.8 Su2

Handling in the dairy.

16154 ROSSI LEMA, L. Etapas fundamentales para obtener la producción de leche higiénica. Uruguay. Mlz. de Ganad. y Agr. B. Inform. 337:23;338:15. Sept.6-13, 1950. 9.9 G15B

Care and handling.

16155 SAVINI, E. Scamorza cheese, technology, production, composition, legislation. (In Italian.) Latte 24:305-306. Sept.1950. 44.8 L35

A spun-curd product.

16156 SCHULZ, M. E. Probleme des milchhygiene-meisters. Milchwissenschaft 5:338-349. Ref. Oct.1950. 44.8 M5933

English summary.

16157 SCHULZ, W. Die beeinflussung des homogenisierungseffektes durch die art und anordnung des homogenisiererspaltes. Milchwissenschaft 5:349-353. Oct. 1950. 44.8 M5933

English summary.

16158 SCHWARZ, G. Gute milch. Süddeut. Molch.-Ztg. 71:1328-1329. Sept.22,1950. 44.8 Su2

Pasteurization.

16159 SENS. Die abhängigkeit der milch von der temperatur. Deut. Milchhandels Ztg. 72:614. Oct.6, 1950. 44.8 D48

16160 SIRRI, A. Milking and quality of milk for cheese manufacture. II. (In Italian.) Piacenza Agr. 6(5/6):4. Mar.15,1950. 281.8 P57

16161 SPARAPANI, K. Die molkeerhitzung in käse-reien. Süddeut. Molch.-Ztg. 71:1126. Aug.11,1950. 44.8 Su2

16162 STARKE. Fritzbuter-tagung in Schleswig-Holstein. Molch.-Ztg. 4:1229-1230. Oct.12,1950. 44.8 M735

16163 STULL, J. W. The prevention of oxidized flavor in dairy products by the use of the antioxidant nordihydroguaiaretic acid (NDGA). Cherry-Burrell Circle 1950:3,5. Nov./Dec.1950. 44.8 C42

16164 SURKOV, V., and others. Intensification of [cream] separation by utilizing hydraulic factors. (In Russian.) Moloch. Promysh. 11(7):30-35. July 1950. 44.8 M734

N. Lipatov, G. Letunovskaja, and N. Ivanova, joint authors.

16165 TRACY, P. H., PEDRICK, R., and LINGLE, H. C. Pasteurization efficiency of the vacreator when used on ice cream mix. J. Dairy Sci. 33:820-831. Nov. 1950. 44.8 J822

16166 TRACY, P. H., HETRICK, J., and KRIENKE, W. S. Relative storage qualities of frozen and dried milk. J. Dairy Sci. 33:832-841. Nov.1950. 44.8 J822

16167 UMBRECHT, J. Milchzubereitungen genügend kühlen! Süddeut. Molch.-Ztg. 71:1094. Aug.4,1950. 44.8 Su2

16168 UVAROVA, L., and FEIGINA, B. Processing of dried milk. (In Russian.) Moloch. Promysh. 11(7):41-42. July 1950. 44.8 M734

16169 WEBB, B. H. Advances reported in freezing milk. (Abs.) Canad. Dairy & Ice Cream J. 29(11):74. Nov.1950. 44.8 C162

16170 WELZ, O. Berechnung eines im verdampfer herzustellenden eiskrem-mixes. Süddeut. Molch.-Ztg. 71:1131. Aug.11,1950. 44.8 Su2

16171 WELZ, O. Die verwendung von stüssmolke-sprühpulver bei der eiskremherstellung. Süddeut. Molch.-Ztg. 71:1162. Aug.18,1950. 44.8 Su2

16172 WILSTER, G. H. Ice cream ingredients—selection and care. Milk Messenger 27(10):2. (Cont.) Oct.1950. 44.8 M5925

16173 ZIEGLER, K. A. Was ereignet sich im vakuum-eindampfer? Süddeut. Molch.-Ztg. 71:1227-1228,1264, 1301-1302,1335-1336. (Cont.) Sept.1-22,1950. 44.8 Su2

16174 ZOLLIKOFER. Ueber die hygienische seite des qualitätsproblems in unserer milchwirtschaft. (Abs.) Grüne 78:1046. Sept.22,1950. 17 Sch9

#### Statistics

16175 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Butter, cheese, and condensed, concentrated, etc., milk. Austral. Bur. Census & Statis. Mfg. Indus. 25,7 p. Sept.27,1950. 271 Au72Ma

16176 CANADA. BUR. OF STATISTICS. Dairy factories, 1948. Ottawa,1950. 68 p. 44.9 C167

16177 HONL. Zahlen aus der milchwirtschaft in Württemberg-Baden. Süddeut. Molch.-Ztg. 71:1526. Oct.27,1950. 44.8 Su2



16178 NEW YORK. DEPT. OF AGRICULTURE AND MARKETS. Statistics relative to the dairy industry in New York State, 1949. Albany, 1950. 31 p. 281.3449 N48

U. S. Bur. of Agricultural Economics cooperating.

16179 U. S. BUR. OF AGRICULTURAL ECONOMICS. Production of manufactured dairy products, 1949. U. S. D. A. Statis. B. 93,48 p. Nov. 1950. 1 Ag84St

16180 U. S. BUR. OF AGRICULTURAL ECONOMICS. Statistics relative to the dairy industry in the Jamestown, N. Y., market. Albany, N. Y., 1950. 24 p. 1.941 M8St2

New York State Department of Agriculture and Markets cooperating.

#### FEED AND FORAGE CROPS

16181 AMERICAN FEED MANUFACTURERS' ASSOCIATION. FEED SURVEY COMMITTEE. What's the feed score? East. Feed Merchant 1(12):30. Dec. 1950. 389.78 Ea7

Outlook.

16182 ANDERSON, O. B. Wisconsin's hidden \$50 millions. Nation's Agr. 26:13,19. Jan. 1951. 280.82 B89

Use of home-grown feeds.

16183 BRÜGGEMANN, H. Verhefung von schweinefutter. Landwirt. Wehnl. f. Westfalen u. Lippe 107 A: 1344. Sept. 28, 1950. 18 L2346

16184 CLENDENAN, E. F. High quality secret of West Coast industry. Milling & Feed 31(10):11,21-22. Oct. 1950. 298.8 C162

The dried grass meal industry.

16185 CONTRÔLE C. L. O. MENGVOEDERS. Jaarverslag, boekjaar 1 Oct. 1948-1 Oct. 1949 [Annual report, fiscal year Oct. 1, 1948-Oct. 1, 1949]. Arnhem, 1950. 66 p. 280.29 C7696

16186 CUNNINGHAM, L. C. Feed price behavior under Government price control. East. Feed Merchant 1(11):12-14. Nov. 1950. 389.78 Ea7

16187 DAWSON, J. E., MUSGRAVE, R. B., and DANIELSON, R. E. Effect of fungicides on occurrence of losses due to mold respiration during curing and storage of hay. Agron. J. 42:534-536. Nov. 1950. 4 Am34P

16188 DAY, D. I. Increasing dairy feed business. Amer. Miller & Processor 78(11):64,66. Nov. 1950. 298.8 Am32

16189 DIAMOND, W. T. There will be enough feed. Hoard's Dairyman 95:821. Nov. 25, 1950. 44.8 H65

16190 DOBERT. Korea und die milch. Molk.-Ztg. 4 (40)(sup.:Unser Milchvieh Ausg. A 2(10):2.). Oct. 5, 1950. 44.8 M735

Feed prices and feed requirements of cattle.

16191 DYER, T. G. Effective selling is a 24-hour job. Feed Bag 26(12):15,104-106. Dec. 1950. 389.78 F32

16192 ELLETT, D. Ten proven ways to increase feed sales volume. Feedstuffs 22(48):22-23. Dec. 2, 1950. 286.81 F322

16193 FANGAUF, R. "Legekorn" - eine neuer-scheinung am futtermittelmarkt. Deut. Wirtgeflügelzucht. 3:13-14. Oct. 14, 1950. 47.8 D483

16194 GRIFFIN, E. D. Salesman and control official. Flour & Feed 51(6):16. Nov. 1950. 298.8 F66

16195 GRIFFIN, E. D. Salesmen's views on control work; they are especially concerned with labeling laws. (Digest.) Feed Bag 26(11):26,82-83. Nov. 1950. 389.78 F32

16196 HERINGA, B. The livestock feed supply. (In Dutch.) Netherlands. Landbouwlichtingsdienst. Maandbl. 7:333-338. Aug. 1950. 12 N383M

16197 HICKS, C. F. The responsibility of feed manufacturer and feed dealer. Feedstuffs 22(48):17-18,20. Dec. 2, 1950. 286.81 F322

16198 HUSH, H. Feed squeeze ahead? More grain used this year than total crops in 1950; surplus stops growing. Wallace's Farmer & Iowa Homestead 75(22):8. Nov. 18, 1950. 6 W15

16199 KEPHART, J. C. Can save half carotene loss from dehydrated alfalfa adding anti-oxidant chemicals in process. Milling & Feed 31(10):17. Oct. 1950. 298.8 C162

16200 KOETSVELD, E. E. VAN. A colorimetric method for the determination of vitamin K<sub>3</sub> in fortified fodders. Rec. des Trav. Chim. des Pays-Bas 69:1217-1222. Sept./Oct. 1950. 385 R24

16201 LANIER, P. Les progrès de la recherche dans l'alimentation animale: déterminer la composition des denrées pour établir des rations équilibrées. Vie Lait. 6(118):3. Oct. 25, 1950. 44.8 V67

16202 LARSON, L. S. It ain't hay! Feedstuffs 22 (45):49-50,52-54. Nov. 11, 1950. 286.81 F322

Alfalfa processing.

16203 LAURENT, R. La culture du sorgho a sa place au Maroc. Inform. Marocaine 508:1,3. Oct. 7, 1950. 281.8 In3

16204 MAGLIANO, A. Small corn harvest and fattening of swine. (In Italian.) Glor. di Agr. 60:309. Oct. 1, 1950. 16 It1G

Italy.

16205 MIÈGE, E. La composition et la qualité de la luzerne au Maroc. Inform. Marocaine 506:1,4. Sept. 23, 1950. 281.8 In3

16206 NORTON, L. B., and SCHMALZRIEDT, B. Elimination of interferences in determination of DDT residues. Analyt. Chem. 22:1451. Nov. 1950. 381 J825A

In alfalfa.

16207 ONRUST, H., and WOSTMANN, B. A polarographic determination of vitamin-K<sub>3</sub> (2-methyl-1,4-naphthoquinone) in prepared feeds. Rec. des Trav. Chim. des Pays-Bas 69:1207-1216. Sept./Oct. 1950. 385 R24

16208 PETERSEN. Sicherung der futtergrundlage im Zweijahrplan. Deut. Landwirt.-Gesell. Arb. (n.s.):6:29-49. June 1949. 18 D48

Russian Zone of Germany.

16209 POPOV, B. N. On stabilizing the feed supply base on stud farms. (In Russian.) Konevodstvo 20(5):1-5. May 1950. 42.8 K832

16210 SALA, E. Gefährdete futtergetreide-versorgung. Deut. Wirtgeflügelzucht. 3:18-19. Oct. 14, 1950. 47.8 D483

16211 SCHRENK, W. G., and SILKER, R. E. Mineral composition of dehydrated alfalfa. Kans. Acad. Sci. Trans. 53:422-426. Ref. Sept. 1950. 500 K13T

16212 SCHÜRCH, A. Grundlagen und methoden der futtermittelbewertung. Schweiz. Ver. f. Tierzucht. Schr. 12:5-27. Ref. 1949. 49.9 Sch92

Analysis.

16213 SOLOV'EV, E. Mechanization of transportation of malt grain and bagasse [for cattle fattening]. (In Russian.) Mlāsnaia Indus. SSSR. 21(2):65-68. Mar./Apr. 1950. 50.8 M58

16214 STAHLI, H. Wandlungen im thurgauischen futter- und ackerbau. Schweiz. Zentbl. f. Milchwirt. 39:230-231. Oct. 13, 1950. 44.8 Sch93

Area.

16215 WARD, A. L. A challenge-what will you do about it? Feedstuffs 22(45):40-42,44,46,48. Nov. 11, 1950. 286.81 F322

Educational work in the use of protein feeds.

#### FIBERS AND TEXTILES

16216 AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS. Literature survey of textile bleaching. II. Bleaching-general considerations and miscellaneous processes. Amer. Dyestuff Rptr. 39: P782-786, P820-P830. Nov. 13-27, 1950. 306.8 Am3

16217 ASHTON, H. Staple fibre blends; processing on the woollen and worsted systems. (Abs.) Textile Mercury & Argus 123:839,841,843,845-846,849. Nov. 24, 1950. 304.8 T318

16218 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Cotton mills. Austral. Bur. Census & Statis. Mfg. Indus. 34,10 p. Sept. 25, 1950. 271 Au72Ma

16219 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Rope and cordage. Austral. Bur. Census & Statis. Mfg. Indus. 29,7 p. Aug. 18, 1950. 271 Au72Ma

16220 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Woollen mills. Austral. Bur. Census & Statis. Mfg. Indus. 14,10 p. Sept. 19, 1950. 271 Au72Ma

16221 BAYMA, C. Trade and production of flax. (In Portuguese.) Seleç. Agr. 5(53):17-19. Sept. 1950. 9.2 Se4

Brazil.

16222 BEEVERS, H. Wool sorting. Wool Knowl. 1950(8):13-16,23. Autumn 1950. 304.8 W886

16223 BELL, R. Textile industry proud of gains of decade. South. Textile News 6(43):3. Oct. 28, 1950. 304.8 So83



- 16224 BLACKBURN, S. The action of papain on wool keratin. *Biochem. J.* 47:443-451. Ref. Oct.1950. 382 B52
- 16225 BOSMAN, V. Great wool factory for the Union. (In Afrikaans.) *Landbouweekblad* 32(1633):19. Nov.1,1950. 24 L232
- 16226 BUCK, G. S., JR. Super-cottons. *Textile B.* 76(11):45-46. Nov.1950. 304.8 So82
- Properties.
- 16227 BUNN, H. S. Textile fiber development. *Amer. Assoc. Textile Technol. Papers* 5:230-231. Dec. 1950. 304.9 Am33
- Dynel.
- 16228 CALLOW, H. J. Note on the effect of urea-formaldehyde treatment on the photochemical discolouration of bleached jute. *Textile Inst. J.* 41:T404-T406. Oct.1950. 73.9 T31
- 16229 CLARK, J. M. Jute supply position. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 3:111-115. July 1950. 281.9 Au73
- Australia.
- 16230 CONSERVATIVE POLITICAL CENTRE. *Cotton. London*, 1950. 19 p. (Inside Indus.,4) 304 C76C
- 16231 COOMBES, G. A. N. La nouvelle défibreuse Humbert. *Rev. Agr. de l'île Maurice* 29:107-111. May/June 1950. 24 M44
- For aloes.
- 16232 DALFSEN, J. W. VAN. De bepaling van de vezelbundelsterkte volgens Pressley. II. Ervaringen en oriënterende proeven [Determination of strength of bundles of cotton fibers by the Pressley tester. II. Experiments and directed tests]. *Netherlands. Vezelinst. T. N. O. Pam.* 22,23 p. 1950. 304.9 N382
- English summary.
- 16233 DAS, D. B. Yellowing of jute. *Jute & Gunny Rev.* 2:331-333. Ref. June 1950. 73.38 J983
- 16234 DAVIDSON, G. F. The acidic properties of cotton cellulose and derived oxycelluloses. VII. *Textile Inst. J.* 41:T361-T380. Ref. Oct.1950. 73.9 T31
- 16235 DAVISON'S textile catalogues and buyers guide, 1950. *Ridgewood, N. J.*, 1950. 512 p. 304 D29
- 16236 DHINGRA, D. R., and MITHEL, B. B. Pulp problems of the rayon industry in U.P. *Indian Textile J.* 60:944,950. Sept.1950. 304.8 In2
- 16237 DIENER. Was tut sich auf dem weltwoollmarkt? *Tierzüchter* 2:535-536. Oct.20,1950. 49 T445
- 16238 DUNBABIN, T. High prices will not injure Australian wool market. *Wool Grower* 6(6):2. Nov.23,1950. 280.38 W99
- 16239 EASLY, N. L. What price Angora marketing co-operatives? *Angora Rabbit Mag.* 6(2):1,10. Nov.1950. 40.28 An42
- 16240 FISHER, C. H. Research is aiding cotton mills. *South. Textile News* 6(43):5. Oct.28,1950. 304.8 So83
- 16241 FRANCE. DIRECTION DE LA DOCUMENTATION. L'industrie française de la soierie. France. Dir. de la Doc. Notes et Études Doc. 1384,23 p. Sept.29,1950. 280.9 F843
- 16242 GAINES, R. W. Spinning dynel yarns. *Textile B.* 76(11):70. Nov.1950. 304.8 So82
- 16243 GERMANS, F. H. The vitno-Integrator; its construction and application for measuring the levelness of yarns. *Netherlands. Vezelinst. T.N.O. Meded.* 98,15 p. 1950. 304.8 N38
- 16244 GRUGET, E. A. El cañamo. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(13):2-32. July 1950. 9 Ar35
- Outlook for the Industry in Argentina and details of costs and returns.
- 16245 HAARER, A. E. Hibiscus cannabinus classifications; some colloquial confusions. *Cordage World & Indus.* 32(373):14-15. Ref. Nov.1950. 73.8 C813
- 16246 HAPPEY, F. Some new concepts in the structure of cellulose and its derivatives. *Textile Inst. J.* 41:T381-T403. Ref. Oct.1950. 73.9 T31
- 16247 HARTSUCH, B. E. Introduction to textile chemistry. New York, Wiley, 1950. 413 p. 304 H25
- Includes classification and properties of textile fibers.
- 16248 HEINZELMAN, D. C., and O'CONNOR, R. T. Trace metals in cotton fiber. *Textile Res. J.* 20:805-807. Nov.1950. 304.8 T293
- 16249 HESSLER, L. E., and KIEKE, H. E. A mechanized fiber blender. *Textile Res. J.* 20:802-804. Nov. 1950. 304.8 T293
- 16250 HEYN, A. N. J. The relationship of wax content to maturity of cotton. *Textile Res. J.* 20:771-772. Nov.1950. 304.8 T293
- 16251 HIMMELFARB, D. Cordage testing methods. II-III. *Fibres, Fabrics & Cordage* 17:330,332-335,365-367. Oct.-Nov.1950. 304.8 Ir42
- 16252 HOPKINS, G. E. Wool research in the United States. *Natl. Wool Grower* 40(11):26. Nov.1950. 45.8 N21N
- 16253 HOUTZ, R. C. "Orlon" acrylic fiber: chemistry and properties. (Condensed.) *Textile Res. J.* 20:786-801. Ref. Nov.1950. 304.8 T293
- 16254 HOWELL, L. D. Costs of manufacturing carded cotton yarn and means of improvement. In *U. S. Agricultural Research Admin. Marketing margins and efficiency*, p.92-95. Washington, 1950. 1.98 M343
- 16255 HUNT, S. B. Current supply-demand picture of U. S. textile fibers. *Amer. Assoc. Textile Technol. Papers* 5:246-252. Dec.1950. 304.9 Am33
- 16256 INDIA. DEPT. OF AGRICULTURE. DIRECTORATE OF ECONOMICS AND STATISTICS. Indian cotton statistics. Delhi, 1950. 57 p. 269.5 Ag82Ic
- 16257 INDIAN CENTRAL JUTE COMMITTEE. Annual report of the Jute Agricultural Research Institute, 1948-49. Calcutta, 1949. 60 p. 73.39 In26A
- 16258 INTERNATIONAL SILK ASSOCIATION. Statuts. Lyon, 1949? 11 p. 304.9 In82S
- Text also in English.
- 16259 ISENBERG, I. H., and PECKHAM, C. L. Weight factors for cotton linters. *Tappi* 33:527-528. Oct.1950. 302.8 T162
- 16260 IVANOV, A. New machines for flax processing (In Russian.) *Mashinno-Traktornaja Sta.* 10(7):33-36. July 1950. 58.8 M11
- 16261 KOB, H. Neuere textilprüfgeräte. *Textil-Praxis* 5:688-693. Ref. Nov.1950. 304.8 T3143
- 16262 KOHLSCHÜTTER, H. W., and MATTNER, H. Abscheidung von kieselensäure in baumwollfasern. *Z. f. Anorgan. Chem.* 262:122-128. Ref. May 1950 384 Z332
- 16263 KRATKY, O. Die ultraviolett-absorption bei faserproteinen. (Abs.) *Angew. Chem.* 62:390-391. Aug.21,1950. 384 Z33
- 16264 KROESE, W. T. The Japanese cotton industry. (In Dutch.) *Economist* 98:625-651. (To be cont.) Oct.1950. 280.8 Ec792
- 16265 LAKHE, R. H. Cotton wastes and their utilization. *Indian Textile J.* 60:963,962. Sept.1950. 304.8 In2
- 16266 LEITCH, F. J. Flax supplies, I-III. *Linon Trade C.* 36(40):13;(41):16;(42):11. Oct.14-28,1950. 304.8 L64
- 16267 LINDLEY, H. Recent advances in knowledge of wool structure. *Research* 3:509-513. Ref. Nov.1950. 472 R31
- 16268 LION, A. A new family [orlon] of synthetic textile fibres. *Jute B.* 13:281-282. Sept.1950. 73.38 In2
- 16269 LÓPEZ FRESQUET, R. Industrialización del kenaf. *Labor* 8:158. Oct.30,1950. 8 L11
- Cuba.
- 16270 LOW, A. S. Jute marketing. *Jute & Gunny Rev.* 2:407,409-413. July 1950. 73.38 J983
- India.
- 16271 LOW, A. S. Varieties of jute (geographical distribution related to quality characteristics). *Jute & Gunny Rev.* 2:341-343,345,372. June 1950. 73.38 J983
- 16272 LUNA ERCILLA, C. A. La extracción de fibras vegetales. *Pampa Argentina* 23(274):16. Sept. 1950. 9 P19
- 16273 LUNA ERCILLA, C. A. Importancia económica de algunas fibras indígenas. *Bolsa de Com., Rosario.* Rev. 38(929):3-4. Sept.30,1950. 287 R71
- 16274 MAKAROV, V. V. Pervichnaja obrabotka l'na [Primary processing of flax]. Moskva, Gos. Izd-vo Sel'khoz Lit-ry, 1950. 174 p. (Uchebniki i Uchebnye Posobiya dlya Podgotovki Sel'skokhoziaistvennykh Kadrov Massovoi Kvalifikatsii) 73.1 M28P
- 16275 MAKINSON, K. R. The frictional properties of wool fibres. *Textile Inst. J.* 41:T407-T409. Ref. Oct.1950. 73.9 T31
- 16276 MARSH, H. Shearing and marketing wool in Australia. *Natl. Wool Grower* 40(11):27-28. Nov.1950. 45.8 N21N
- 16277 MARSHALL, G. Principles of carding and their application. (Extr.) *Textile Inst. J.* 41:P725-P736. Oct.1950. 73.9 T31
- Wool and other fibers.



- 16278 MARTIN, H. Über die asymmetrische adsorption von mandelsäure an wollekeratin. (Abs.) *Angew. Chem.* 62:386-387. Aug.21,1950. 384 Z33
- 16279 THE MECHANICAL HACKING of flax fibre. 3. Differential holder speeds. *Alphomega* 5:60-65. 1950. 297.8 AL7
- 16280 MONCRIEFF, R. W. Damage caused by non-shrink treatment of wool. *Textile Mfr.* 76:552-558. (To be cont.) Nov.1950. 304.8 T3126
- 16281 MOODY, E. G. Treatment of wool for home uses. *So. Austral. Dept. Agr. J.* 54:51. Aug.1950. 23 So84
- 16282 MOORE, W. R. Physics of fibres. *Dyer* 104:366-367. Oct./Nov.1950. 306.8 D98
- 16283 MORAWEK, W. Vorbereitungsverfahren bei der verarbeitung von reyon und synthetischen fasern in Amerika. *Textil-Praxis* 5:702-704. (To be cont.) Nov. 1950. 304.8 T3143
- 16284 MOSS, A. J. E. Stain removal, the technique of spotting. London, Trader Pub., 1950. 179 p. 322.2 M85  
Contains a chapter on natural and synthetic fibers.
- 16285 MOSS, E. J. They or we. Which is it to you? *Amer. Angora News* 4(13/14):4,6. Oct./Nov.1950. 40.28 Am32  
Cooperative marketing of Angora wool.
- 16286 NAIDICH, R. More demand for less cotton. *Natl. Indus. Conf. Bd. Business Rec.* 7:430-432. Nov. 1950. 280.9 N216Cb
- 16287 NATIONAL COTTON COUNCIL OF AMERICA. Cotton in Africa, by R. P. Dunn, Jr. Memphis, 1950. various pagings. Ref. 72 N217Af
- 16288 NATIONAL COUNCIL OF WOOL SELLING BROKERS OF AUSTRALIA. Wool review 1949-50. Sydney, 1950. 16 p. 286.85 N216W
- 16289 NATIONAL FARMERS' UNION. Scheme under the Agricultural Marketing Acts, 1931 to 1949, regulating the marketing of wool. London, 1949. 25 p. 280.345 N21
- 16290 NETHERLANDS. VEZELINSTITUUT T. N. O. Verslag 1949 [Report of the Fiber Institute T. N. O.]. Delft, 1950. 45 p. 304.9 N382V
- 16291 NEWTON, G. E. Worth Street, center of the cotton textile industry. *Textile Forum* 7:11,34. Dec. 1950. 304.8 T3191
- 16292 NICKERSON, D. Certain color changes in cotton under artificial lighting. Washington, U. S. Prod. & Mktg. Admin., 1950. 10 p. 1.956 C82N53  
Paper given before the Optical Society of America, Cleveland, Oct. 26-28, 1950.
- 16293 OLERUP, H. Judging the results of the control method. (In Swedish.) *Textil och Konfektion* 7(8):40-43. Oct.1950. 304.8 T3192  
Wool and cotton spinning.
- 16294 OLIVEIRA, J. D. DE. The present national cotton situation. (Sum.) (In Portuguese.) *Soc. Rur. Brasil. Rev.* 30(357):48-51. Aug.1950. 9.2 B733
- 16295 ORR, C. W. World shortage of sheep wool. *Amer. Angora News* 4(13/14):1. Oct./Nov.1950. 40.28 Am32
- 16296 OVERBEKE, M. VAN, LEFEBVRE, L., and RAUX, L. Étude du pouvoir détergent des détersifs préconisés pour le lavage des laines en suint. *Inst. Textile de France. B.* 21:59-66. Oct.1950. 304.8 T3145  
English summary.
- 16297 PALMER, A. W. Cotton faces up to new world problems. *Internatl. Cotton B.* 18:249-254. July 1950. 72.8 In8
- 16298 PERU. JUNTA NACIONAL DE LA INDUSTRIA LANAR. Memoria presenta por el año 1949. Lima, 1950. 73 p. 281.3459 P43
- 16299 PFEIFFER, F. Nuevas consideraciones sobre el cultivo del cáhamo en el República Argentina. *Bolsa de Com., Rosario. Rev.* 38(926):7-10. Aug.15,1950. 287 R71  
The Industry.
- 16300 PONSONBY, C. E. Brazil's cotton industry. *World Crops* 2:507-510. Dec.1950. 281.8 W892
- 16301 PRINGLE, A. V. The theory and practice of flax spinning. *Fibres, Fabrics & Cordage* 17:371-374,380. (Cont.) Nov.1950. 304.8 Ir42
- 16302 PRITCHETT, W. M. The mohair industry in the Southwest; recent developments indicate bright future. *Fed. Reserve Bank Dallas. Mon. Business Rev.* 35:193-201. Dec.1,1950. 284.8 F31D
- 16303 QUIG, J. B. Chemistry's contribution to the development of rayon and synthetic fibres. *Fibre & Fabric* 103(3365):44-48. Nov.18,1950. 304.8 F44
- 16304 QUIG, J. B. Cuál es el destino de las fibras sintéticas? *Textiles Panamer.* 10(12):38,76-78. Dec. 1950. 304.8 T3142
- 16305 RAI, N. Ramie is destined to be produced in Italy. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 71:8. Oct.19,1950. 281.8 Ag3
- 16306 RAMINELLA, P. Prices of hemp should be remunerative. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 71:7. Oct.19,1950. 281.8 Ag3
- 16307 RANDALL, L. E. Some geographic aspects of ramie fiber production. *Clark U. Abs. Diss. & Theses* 22:94-96. 1950. 241.8 C54
- 16308 RANDOLPH, W. L. American cotton supply short. *Tex. Coop. News* 30(8):3. Nov.15,1950. 72.9 T315F
- 16309 RANDOLPH, W. L. Defense needs causing cotton shortage. *South. Textile News* 6(43):13. Oct.28, 1950. 304.8 So83
- 16310 RASKOPF, B. D., and HALL, C. R. Cotton marketing practices of growers, ginners, and buyers in Tennessee. *Tenn. Agr. Expt. Sta. Rur. Res. Ser. Monog.* 262,38 p. Nov.16,1950. 173.2 W89Co
- 16311 REESE, C. E., and EYRING, H. Mechanical properties and the structure of hair. *Textile Res. J.* 20:743-753. Ref. Nov.1950. 304.8 T293
- 16312 REIN, H. Die entwicklung und bedeutung der synthetischen fasern. (Abs.) *Angew. Chem.* 62:464. Ref. Oct.7,1950. 384 Z33
- 16313 RISO, R. Progress and improvements in spinning machinery and need for proper control. (In Italian.) *Ist. Coton. Ital. Not. dell'Indus. Tessile Coton.* 4:888-890. Oct.15,1950. 286.3729 Is7N
- 16314 ROBICHEZ, L. L'industrie lainière française et le projet d'Union Lainière Européenne. *Soc. Belge d'Etudes et d'Expansion. B. Bimest.* 49:632-634. Aug./Oct.1950. 280.8 So17
- 16315 SALQUAIN, J. Le lanital et les nouvelles fibres protéidiques artificielles. *Rev. des Prod. Chim.* 53:165-172. Ref. Sept.30,1950. 383 R327
- 16316 SEN, K. R. The elastic properties of single jute filaments. III. *J. Sci. & Indus. Res.* 9B:219-225. Ref. Sept.1950. 475 782
- 16317 SETTERSTROM, C. A. Fiber characteristics and behavior. *Amer. Assoc. Textile Technol. Papers* 5:232-235. Dec.1950. 304.9 Am33  
Dynel.
- 16318 SHREIDER, M. Result of working on TL-40 flax scutching machine. (In Russian.) *Mashinno-Traktornaia Sta.* 10(7):19-22. July 1950. 58.8 M11
- 16319 SLAGLE, A. B. The cotton farmer and his problems. *Southwest. Crop & Stock* 4(11):7,75-76. Nov. 1950. 6 So8942
- 16320 SLATER, H. L. Blending or mixing of fibres. *Textile Wk.* 46:1384,1386,1388. Nov.24,1950. 304.8 T3127
- 16321 SMITH, J. R., and FERRIER, W. T. Cotton buying procedures and practices of South Carolina cotton mills. *S. C. Agr. Expt. Sta. B.* 388,40 p. July 1950. 100 So8
- 16322 SMITH, R. Wool for warmth. *Co-op. Home Mag.* 55(11):7. Nov.1950. 280.28 W563
- 16323 SOUTH AFRICAN WOOL BOARD. Annual report July 1, 1949-June 30, 1950. *Woolboer* 38:42-48. Sept.1950. 45.8 W83
- 16324 THE STORY of silk. *Apparel Mfr.* 27(11):53, 56. Nov.1950. 319.8 Ap4  
History.
- 16325 SYME, P. S. Ropes, knots and splices for farm use. IV. Splicing ropes. *Westrallan Farmers Co-op Gaz.* 19:163,165,167-168. Sept.1950. 280.28 W522
- 16326 THOMAS, R. J., and MEUNIER, P. L. El tejido de la fibra acrílica orlon y su uso en géneros de color. *Textiles Panamer.* 10(12):51,82-93,95-96. (Cont.) Dec.1950. 304.8 T3142
- 16327 TURGAY, N. Aperçu sur l'évolution de la production cotonnière en Turquie pendant les deux dernières années. *Coton et Fibres Trop.* 5:106. Sept.1950. 73.8 C82
- 16328 U. S. BUR. OF AGRICULTURAL ECONOMICS. Men's preferences among wool suits, coats, and jackets; preliminary summary report. Washington, 1950. 21 p. 1.941 P1M522



16329 U. S. PRODUCTION AND MARKETING ADMIN. Comparative fiber and spinning test results for some cottons grown at Florence, S. C., crop of 1949. Washington, 1950. 11 p. 1.956 C82C732

16330 WALKER, J. The marketing of wool in New Zealand. Wool Knowl. 1950(8):5-7, 22. Autumn 1950. 304.8 W886

16331 WALLACE, N. Recent wool price rises cause unheard of N.Z. sheep values. Adelaide Stock & Sta. J. 45(2342):7, 50. Oct. 4, 1950. 23 Ad3

16332 WOOL BUR. Know your woolfacts; a guide to educational and informational teaching aids on wool and wool products for educators and students. New York, 1949? 8 p. 241.4 W88  
Bibliography.

16333 WOOL BUR. The saga of wool in war and peace; text assembled from reports of the United States Army and Navy. New York, 1950. 16 p. 304 W884S  
Textiles.

16334 WOOL BUR. Suggested research and development studies for the woolen and worsted industry. New York, 1950. 12 p. 304 W88

16335 WOUTERS, A. Controlled prices of wool. (In Dutch.) Econ.-Statist. Ber. 35:939-941. Nov. 22, 1950. 280.8 Ec722

English summary.

16336 WRIGHT, J. W. Research in cotton marketing and its significance to breeders and spinners. Washington, U. S. Prod. & Mktg. Admin., 1950. 7 p. 1.9422 C2W93

Address, Cotton Spinner-Breeder Conference, El Paso, Sept. 11, 1950.

16337 YOUNG, H. A. Cotton Council spearheads drive for increased cotton production. South. Textile News 6(43):18, 54. Oct. 28, 1950. 304.8 So83

16338 ZAHN, H. Über den aufbau der faserproteine. (Abs.) Angew. Chem. 62:444-445. Oct. 7, 1950. 384 Z33

16339 ZAHN, H. Veränderungen der wolle durch chemische und thermische einwirkungen. (Abs.) Angew. Chem. 62:433. Sept. 21, 1950. 384 Z33

## FRUITS, VEGETABLES, AND NUTS

16340 ARNOLD. Obsterfassung 1950. Versorgung 4:224-225. Sept. 1950. 280.8 V61  
Russian Zone of Germany.

16341 ASCHE, A. Hannover - kartoffellieferant für das gesamte bundesgebiet. Kartoffelwirtschaft 3:387. Sept. 29, 1950. 286.83 K14

16342 BERNDT. Zur lage im heimischen obstbau. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1315-1316. Sept. 21, 1950. 18 L2346

16343 BLONDEL, L. Quelques aspects de l'agrumiculture italienne. Rev. Agr. de l'Afrique du Nord 48: 607-612. Aug. 11, 1950. 80 R326

16344 BOISSEBLE, G. DE. Saison des champignons. Rustica 23:893-894. Oct. 22, 1950. 14 R92

16345 BOSTER, D. O. Record cranberry crop in prospect for 1950. Amer. Cranberry Growers' Assoc. Proc. Annu. Conv. 81:11-13. 1950. 81 Am35C

Includes discussion.

16346 BRYANT, H. E. The potato situation. Packer 56(47):36. Oct. 28, 1950. 286.8 N483

16347 BURKE, J. H. A study of the citrus industry of Spain. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 56, 122 p. Nov. 1950. 1.943 F763

16348 CABRITA, H. Industrialization of fruits and oilseeds in the Province of Mozambique. (In Portuguese.) Portugal. Agência Geral das Colón. B. Geral das Colón. 26(305):29-35. Nov. 1950. 264 Ag3

16349 CONSTANTINO, V. Economic problems of the coconut industry. Agr. & Indus. Life 12(9):3, 38-39. Sept. 1950. 25 Ag8

Philippines.

16350 CRUMP, S. 10,000 acres of truck crops net Fresno (Calif.) County growers \$10 million a year. Mkt. Growers J. 79(11):22-24. Nov. 1950. 6 M34

16351 DULMET, F. Les villes fruitières deviendront-elles un terrain d'entente? Terre d'Oc 32:442-447. Oct. 1950. 14 Ar5

16352 FOYTIK, J. California plums; economic status, 1950. Calif. Agr. Expt. Sta. C. 398, 26 p. Oct. 1950. 100 C12S

16353 FRANCO, S. Production, commerce et consommation des agrumes. (In Italian.) Cong. Internatl. de l'Agrumicult. Méditer. Actes 1:99-108. Dec. 1949. 93.33 C762

French summary.

16354 GUZZINI, D. Coordination de l'activité dans le champ international. Cong. Internatl. de l'Agrumicult. Méditer. Actes 1:109-112. Dec. 1949. 93.33 C762

16355 IRANZO, J. R. Provenientes e melasses, sous-produits de l'industrie des agrumes. Fruits d'Outre Mer 5:334-340. Ref. Oct. 1950. 80 F9492

16356 JENSEN, E. Die rote beete—eine jodfrucht. Landwirtbl. Weser-Ems 97(41, sup.):2-3 following p. 862. Oct. 12, 1950. 18 L2345

Culture, storage, and utilization.

16357 KAPPLER, E. Berufsvertretung des kartoffel-grosshandels - rückblick und ausschau. Kartoffelwirtschaft 3:321, 400, 402. (Cont.) Aug. 11, Oct. 6, 1950. 286.83 K14

Germany.

16358 KREISER, R. F. Potato prospects for the 1951 season. Fruit & Veg. Rev. 12(8):13. Nov. 1950. 80 C1224

16359 KUNZ, H. Zur winterversorgung mit speise-kartoffeln im verbrauchsgebiet an Rhein und Ruhr. Kartoffelwirtschaft 3:407-408, 410. Oct. 13, 1950. 286.83 K14

16360 LA FACE, F. Aspects et problèmes de l'industrie agrumaire. (In Italian.) Cong. Internatl. de l'Agrumicult. Méditer. Actes 1:85-98. Dec. 1949. 93.33 C762

French summary.

16361 LEMAIRE, M. E. Manioc. J. Geog. 49:376-385. Dec. 1950. 278.8 J82

Various aspects of the industry.

16362 MACNICOL, C. Berry fruit industry. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 3:115-118. July 1950. 281.9 Au73

Australia.

16363 MARTIN, D. The Swiss süßmost industry. Food Preserv. Q. 10:19-24. June 1950. 389.9 Au7F

16364 MERCKER, A. E. Hello, Mr. Chips! Fruit & Veg. Rev. 12(8):12-13. Nov. 1950. 80 C1224

Potato chips.

16365 MERCKER, A. E. 1950 potatoes. Potato

Chipper 10(5):38, 40. Dec. 1950. 75.8 P844

16366 MODROW, H. Kartoffelbau schon einmal retter in der not. Kartoffelbau 1:3. June 1950. 75.8 K145

Potato situation in Germany.

16367 MONTGOMERY, H. B. S. Commercial fruit growing and research. Brit. Farmer 29:8. Nov. 30, 1950. 281.8 B77

16368 MYSORE. DEPT. OF AGRICULTURE. BOTANICAL SECT. A brief note on areca industry in Mysore. Mysore Agr. Calendar 1949/50:54-57. 1949. 34.2 M99

16369 PERSSON, N. Future of the Swedish commercial fruit growing. (In Swedish.) Sveriges Pomol. För. Fruktodlaren 1950:160-162. 86 Sv2F

16370 RAPHAEL, T. D. Berry fruits—looking ahead. Tasmanian J. Agr. 21:226-228. Aug. 1950. 23 T182T

The industry in Tasmania.

16371 RAYNOR, T. E. When pink tomatoes boomed. N. Mex. 28(12):25, 51-52. Dec. 1950. 288.8 N46

The Lakewood tomato industry.

16372 SAVIN, G. Mutés et jus de raisin. Réveil Agr. 59:276-277. Sept. 15, 1950. 14 R322

16373 SCHMID, G. Der Thurgau als obstland. Schweiz. Zentbl. f. Milchwirt. 39:231-232. Oct. 13, 1950. 44.8 Sch93

16374 SINDICATO NACIONAL DE FRUTOS Y PRODUCTOS HORTICOLAS. Frutos de España; la almendra y la avellana. Madrid, 1949? 46 p. 94.6 Si6

16375 SPIES, A. Gilt die speisekartoffel schon als stielkind? Kartoffelbau 1:4-5. June 1950. 75.8 K145

16376 VOGT, W. Die pflanzkartoffelerzeugung in Hannover. Kartoffelwirtschaft 3:388, 390, 402. (Cont.) Sept. 29-Oct. 6, 1950. 286.83 K14

16377 VOGT, W. Saatguterzeugergemeinschaft tagte in Soltau. Hannoversche Land- u. Forstwirt. Ztg. 103: 689-690. (To be cont.) Aug. 5, 1950. 18 H194

16378 WIDLER, W. Der gemüsebau im Kanton Thurgau. Schweiz. Zentbl. f. Milchwirt. 39:232. Oct. 13, 1950. 44.8 Sch93

16379 ZUCCHINI, M. Fruit-producing France. (In Italian.) Glor. di Agr. 60:335. Oct. 22, 1950. 16 ItIG



Analysis and Composition

- 16380 BURÉ, J., BOON, and DELAROUZÉE. Le manioc d'Indochine. *Ann. des Falsif.* 43:129-134. Apr./June 1950. 389.8 An72  
Tests.
- 16381 CAVALCANTI, M. DA C. P. B. Coupela. (In Portuguese.) *Rev. de Quím. Indus.* 19(220):21-26. Aug. 1950. 385 R324  
Analysis and composition.
- 16382 EDELMAN, J., and BACON, J. S. D. Evidence for transfructosidation in the Jerusalem artichoke. *Biochem. J.* 47:xlii. Oct. 1950. 382 B52
- 16383 EVREINOVA, T. N., and NIKOLAEVA, V. G. Investigation of amylase complex of acorns. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:1235-1237. Aug. 21, 1950. 511 P444A
- 16384 GRIEBEL, C. Zur unterscheidung einiger inkusenreicher fruchte (dattel und feldbirne) in zubereitungen. *Z. f. Lebensmitl.-Untersuch. u. -Forsch.* 91:249-253. Oct. 1950. 384 Z39
- 16385 GROSSMAN, J., and FREITAS, A. G. DE. Determination of dry matter in cassava roots by the specific weight method. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 14:75-80. Apr./June 1950. 9.2 R325
- 16386 HUCKER, G. J., and ROBINSON, W. B. Bacteria in frozen vegetables. *Farm Res. [N. Y. State Sta.]* 16(4):5. Oct. 1950. 100 N48A
- 16387 KERTESZ, Z. I., and MCCOLLOCH, R. J. The pectic substances of mature John Baer tomatoes. *N. Y. (State) Agr. Expt. Sta. B.* 745,15 p. Ref. Aug. 1950. 100 N48
- 16388 LEE, F. A. The determination of maturity of vegetables. (Abs.) *Canner* 111(22):15. Dec. 2, 1950. 286.83 C16  
Also in *Canning Trade* 73(22):8. Dec. 18, 1950. 286.83 T67
- 16389 LINDE, P. E., and LE ROUX, M. S. Sampling of table grapes. *Farming So. Africa* 25:247-248. Aug. 1950. 24 So842
- 16390 LINTON, F. B. The spray residue problem. *Org. Farmer* 2(3):12-15. Oct. 1950. 57.8 Or3
- 16391 PATRON, A. Une curieuse réaction colorée de la banane en présence d'acide ascorbique. *Fruits d'Outre Mer* 5:344. Oct. 1950. 80 F9492
- 16392 PEDERSON, C. S. The microbiology of tomato products. (Abs.) *Canner* 111(22):13. Dec. 2, 1950. 286.83 C16  
Molds and bacteria.
- 16393 REINDEL, F., and MANTLER, F. Die kohlenhydrate der topinamburknolle (*Helianthus tuberosus*) und ihre veränderung während des winters. *Z. f. Lebensmitl.-Untersuch. u. -Forsch.* 91:127-131. Ref. Aug. 1950. 384 Z39
- 16394 VÖLKSEN, W. Beiträge zue kenntnis der kartoffelbestandteile. II. Über das kartoffelfett (äther-extrakt). *Arch. der Pharm.* 283:203-207. 1950. 296.8 Ar2A
- 16395 WASSERMAN, D., and DAWSON, C. R. Cashew nut shell liquid. VIII. *Amer. Chem. Soc. J.* 72:4994-4997. Nov. 1950. 381 Am33J  
Chemistry.

Consumption and Utilization

- 16396 CATHCART, W. H. Processed fruits desired by the baker. (Abs.) *Canner* 111(22):15. Dec. 2, 1950. 286.83 C16
- 16397 GERLACH, M. Die kartoffel als industrieller rohstoff. *Kartoffelbau* 1:6-7. June 1950. 75.8 K145
- 16398 MARESCALCHI, C. After the harvest, pressed-grape waste, poor and rich byproduct. (In Italian.) *Terra e Sole* 98:333-334. Oct. 1950. 16 T273
- 16399 NATIONAL CONSUMER-RETAILER COUNCIL. Frozen fruits and vegetables. *Natl. Consum.-Retailer Council. Keys Wise Buying* 101,4 p. 1950. 280.9 N2126K
- 16400 NATIONAL CONSUMER-RETAILER COUNCIL. Stretching your fruit and vegetable dollar. *Natl. Consum.-Retailer Council. Keys Wise Buying* 92,4 p. 1950? 280.9 N2126K
- 16401 SIEBENEICK, H. Sortenwünsche und geschmacksrichtungen. *Kartoffelwirtschaft* 3:414-415. Oct. 13, 1950. 286.83 K14  
Germany.

- 16402 U. S. BUR. OF AGRICULTURAL ECONOMICS. Ability to discriminate and preferences in regard to canned orange juices that vary in brix-acid ratio. *Washington, 1950.* 27 p. 1.941 P1Ab5
- 16403 U. S. BUR. OF AGRICULTURAL ECONOMICS. Consumer preferences regarding apples and winter pears. *U. S. D. A. Agr. Inform. B.* 19,69 p. 1950. 1 Ag84Ab

- 16404 WIT, W. DE. The consumption of fruit and vegetables in the Netherlands. (In Dutch.) *Voeding* 11: 386-393. Oct. 15, 1950. 389.8 V85

Distribution, Marketing, and Transportation

- 16405 ASSOCIATION OF AMERICAN RAILROADS. REFRIGERATOR CAR RESEARCH. A.A.R. report no. 32, reporting separately various types of refrigerator service commonly used in the transportation of cantaloups in 40 refrigerator cars originating in the Imperial Valley, at Yuma, Ariz. and at Phoenix, Ariz. and moving towards eastern destinations during June and July, 1949. Chicago, 1949. 55 p. 295 As7A
- 16406 ASSOCIATION OF AMERICAN RAILROADS. REFRIGERATOR CAR RESEARCH. A.A.R. summary report no. 31 reporting separately heater service rendered in 129 individual car tests on refrigerator carloads of cold storage apples and pears originating in the Pacific Northwest and moving eastward principally to Chicago, Ill. during the winter season, 1948-1949. Chicago, 1949. 161 p. 295 As7As
- 16407 BITTING, H. W. Planning and developing the Pittsburgh costs and margins study in marketing fruits and vegetables. In *U. S. Agricultural Research Admin. Marketing margins and efficiency*, p. 57-66. Washington, 1950. 1.98 M343
- 16408 BOLLN, O. Wissenswertes für den kartoffelversand. *Kartoffelwirtschaft* 3:322-323. Aug. 11, 1950. 286.83 K14  
Germany.
- 16409 CALIFORNIA ALMOND GROWERS EXCHANGE. How co-op marketing held the line in '49: the annual report. *Almond Facts* 15(6):1,6-12. Nov./Dec. 1950. 280.28 AL62
- 16410 CANNON, J. W., JR. Proposed federation of associations of pecan growers of the United States. *Soeast. Pecan Growers Assoc. Proc.* 43:53-56,58. 1950. 94.69 G29  
Includes discussion.
- 16411 CARNE, W. M. Brown heart of apples and its relation to our knowledge of apples and of ship carriage of perishable foods. *Austral. Inst. Agr. Sci. J.* 16:59-64. June 1950. 23 Au74
- 16412 CARREL, J. Commercialisation de la pomme de terre pendant la campagne 1948-49. I-II. *Agriculture [Paris]* 14:253-257,283-285. Sept.-Oct. 1950. 14 Ag823
- 16413 CHOQUETTE, C. Graves problèmes pour les maraichers. *B. des Agr.* 46(12):9. Dec. 1950. 7 B872  
Marketing problems in Canada.
- 16414 COLLINS, E. C., and CREEK, C. R. Your peaches in the market. *U. S. Farm Credit Admin. C.* C-134,9 p. May 1950. 166.2 C4923  
Colorado Agricultural Experiment Station cooperating.
- 16415 FERRAGUTI, M. Uncontrolled markets and consumer protection. (In Italian.) *Agr. Ital.* 1:439-440. Sept. 15, 1950. 16 Ag822  
English summary.
- Legislation dealing with fruit and vegetable marketing.
- 16416 FLETCHER, T. E. Pecans at auction. *Soeast. Pecan Growers Assoc. Proc.* 43:65-66,68. 1950. 94.69 G29  
Includes discussion.
- 16417 FORD, K. E. Waste and spoilage losses in merchandising sweet potatoes at the retail store. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 24,8 p. July 1950. 100 G29M
- 16418 GIRARDEAU, J. H. Pecans at auction. *Soeast. Pecan Growers Assoc. Proc.* 43:62-65. 1950. 94.69 G29  
Includes discussion.
- 16419 HUBBARD, E. S. A look at the 1950 apple market. *Amer. Agr.* 147:599,608. Nov. 4, 1950. 6 Am3
- 16420 JANY, W. Wie lässt sich bei hohen kartoffelernten die überfüllung der speisekartoffelmärkte verhüten? *Kartoffelwirtschaft* 3:436-437. Nov. 3, 1950. 286.83 K14  
Germany.



- 16421 LANG, L. Herbstkartoffelversand aus Hannover. Kartoffelwirtschaft 3:392. Sept.29,1950. 286.83 K14
- 16422 LEIGH, W. E. Report on first year of marketing agreement for pecans. Soeast. Pecan Growers Assoc. Proc. 43:70-73. 1950. 94.69 G29
- 16423 MCGAHA, M. E. Potatoes are not "hardware." Pre-Pack-Age 4(3):18-19. Nov.1950. 280.38 P91  
Damage during marketing.
- 16424 MAIER-BODE. Verwertung der kartoffelernte 1950. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1375-1376. Oct.5,1950. 18 L2346
- 16425 MEALS, C. F. All this -- and TV, too! Diamond Walnut News 32(6):6-9. Nov.1950. 94.68 D34  
Advertising.
- 16426 PIPER, W. E. Apples for New England food buyers; the new crop year now actively under-way. New Eng. Grocery & Mkt. Mag. 17(12):55-56,58. Oct.1950. 286.83 N44A
- 16427 SCHULTE, F. Wie verwertet der bauer die kartoffelernte 1950? Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1303. Sept.21,1950. 18 L2346  
Marketing.
- 16428 SIAENS, F. Station de triage et d'emballage; ou commercialisation à l'exploitation? B. Hort. (n.s.):5:254-255. Sept.1,1950. 80 B873  
Fruit marketing.
- 16429 STEARNS, C. M. Essex County school provides real training in marketing of vegetables. Agr. Educ. Mag. 23:100. Nov.1950. 275.8 Ag8
- 16430 U. S. BUR. OF AGRICULTURAL ECONOMICS. Pattern of distribution of fruits and vegetables shipped by railroad, 1939 and 1947 and transportation charges, 1947, by G. T. Reeves and H. V. Smith. Washington, 1950. 55 p. 1.941 M2P27
- 16431 VALENTINE, G. E. Selling apples successfully. Family Herald & Wk. Star 81(49):5,14. Dec.7,1950. 7 F21
- 16432 VAN DYKE, A. W. Words that sell apples. Conn. Agr. Col. Ext. L. 10,4 p. Oct.1950. 275.29 C76B
- 16433 WEISHAAR, L. J. Be careful about that contract! Blue Anchor 27(4):25,27-28. Nov.1950. 286.83 B62  
Fruit marketing.
- 16434 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Merchandising handbook for retailers of fresh fruits and vegetables. Wis. Agr. Col. Ext. Stencil C. 325,47 p. Aug. 1950. 275.29 W75B
- 16435 WOLF, A. F. Problem of allocation or disposition of a crop among various outlets. Citrus Mag. 13(3):24,28. Nov.1950. 80 C498
- 16436 ZIMMERMANN, E. Aufgabe und leistung des empfangsgrosshandels. Kartoffelwirtschaft 3:419. Oct.20,1950. 286.83 K14  
Germany.
- 16441 MEITH, H. C. The accent is on quality. (Condensed.) Calif. Citrog. 36:46-47,62. Dec.1950. 80 C125
- 16445 MERTENS, W. Probleme der kartoffelsortierung. Hannoversche Land- u. Forstwirt. Ztg. 103:732-733. Aug.19,1950. 18 H194  
Types of equipment.
- 16446 REID, W. W. The enzymic degradation of pectin and other polysaccharides. I. J. Sci. Food & Agr. 1:234-240. Ref. Aug.1950. 382 So12
- 16447 SABUROV, N. V., and KOPERINA, L. V. Effect of variety and meteorological conditions on aroma of berries. (In Russian.) Moskov. Ordena Lenina Sel'sko-khoz. Akad. im. K. A. Timirfazeva. Dok. 11:246-250. 1949. 20 M857
- 16448 SCHMIDT, H. W. "Obstabil" toxisch? Sellen-Ole-Fette-Wachse 76:479. Oct.11,1950. 307.8 Se4  
A fruit preservative.
- 16449 SEMENOFF, S. D. Abänderung des systems der kartoffelanerkennung. Deut. Landwirt.-Gesell. Mitt. 3:296-299. Aug.1950. 18 D48M1  
Russian zone of Germany.
- 16450 SMITH, O. How to pick out potatoes--by specific gravity. Pre-Pack-Age 4(3):31. Nov.1950. 280.38 P91
- 16451 STANTON, H. R. Ideal tomato color is aim of joint research project. N. J. Agr. 32(5):1. Sept./Oct. 1950. 275.28 N46  
Use of an electronic machine to establish the ideal color.
- 16452 VOGT. Kampf den "saatsortierten" spelse-kartoffeln. Hannoversche Land- u. Forstwirt. Ztg. 103:865-866. Sept.30,1950. 18 H194

#### Packing and Packaging

- 16453 CRUESS, W. V., and GIBSON, A. Date by-product experiments. Canner 111(22):20-22,24. Dec.2,1950. 286.83 C16  
Packaging and processing.
- 16454 EARLEY, J. M. Prepackaging opens the way to the retailer for increased produce profits. Pre-Pack-Age 4(3):28-30. Nov.1950. 280.38 P91  
Fruit and vegetables.
- 16455 GODWIN, M. The use of the controlled experiment in the study of prepackaging as a method of retailing fruits and vegetables. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.112-119. Washington, 1950. 1.98 M343
- 16456 MONCEAU, G. Quelques remarques sur l'ensachage des fruits. Révell Agr. 59:326. Nov.1,1950. 14 R322
- 16457 NAVELLIER, E. Les matières plastiques et les fruits. Fruits d'Outre Mer 5:294-301. Aug./Sept. 1950. 80 F9492  
Containers.

#### Grading, Inspection, Standardization, and Quality

- 16437 CURRY, J. A. Report and problems of pecan inspection service. Soeast. Pecan Growers Assoc. Proc. 43:73-76,78. 1950. 94.69 G29  
Includes discussion.
- 16438 DUPAIGNE, P., and BOGDANSKI, K. Étude préliminaire sur le brunissement des produits de fruits. Indus. Agr. et Aliment. 67:387-392. Ref. Aug./Oct.1950. 383 As7  
English summary.
- 16439 FRIEDHEIM. Abänderung des systems der kartoffelanerkennung. Deut. Landwirt.-Gesell. Mitt. 3:299. Aug.1950. 18 D48M1  
Russian zone of Germany.
- 16440 GELLER, G. Some thoughts on maturity standards. Blue Anchor 27(4):8,39. Nov.1950. 286.83 B62  
Fruit.
- 16441 GREIG, A. M. W. Views of industry sought; proposed alterations in grading standards. Orchardist New Zeal. 23(7):2-3. Aug.7,1950. 80 Or19
- 16442 GREIG, W. S. Grading potatoes for mealiness and its effect on retail sales. N. Y. Agr. Col. A. E. 762, 28 p. Nov.1950. 281.9 C81
- 16443 HUCKER, G. J. Relation of quality of frozen vegetables to number of bacteria present. (Abs.) Canner 111(22):12. Dec.2,1950. 286.83 C16

#### Prices, Price Control, and Rationing

- 16458 FUGETT, K. A., BAKER, C. K., and MAYES, H. M. Schedule for pricing Texas citrus according to containers. Tex. Agr. Expt. Sta. Prog. Rpt. 1290,8 p. Nov.15,1950. 100 T31P
- 16459 GOLDSBOROUGH, G. H. Fruit and vegetable growers bargain with processors. News Farmer Coop. 17(9):10,14. Dec.1950. 166.2 N47  
Pricing arrangements for raw products between the grower and processor.
- 16460 KUNZ, H. Verwirrung um die kartoffelpreise. Kartoffelwirtschaft 3:435-436. Nov.3,1950. 286.83 K14  
Germany.
- 16461 WINGATE, H. L. Why not parity prices for pecans? Soeast. Pecan Growers Assoc. Proc. 43:58-62. 1950. 94.69 G29

#### Processing and Storage

- 16462 ACKERMAN, W. Fruit storage. Org. Farmer 2(3):38-41. Oct.1950. 57.8 Or3
- 16463 ALMEIDA, O. DE. Cooperative starch factories and distilleries. (In Portuguese.) Divulg. Coop. 11:19-20,23-24. Sept.1950. 280.28 R47  
From cassava.
- 16464 ATKINSON, F. E. Raw materials for canning fruits. (Sum.) Canad. Food Indus. 21(11):45,47,49. Nov.1950. 286.83 C166  
Varieties.



- 16465 ATKINSON, R. M., DICKINSON, D., and HARRIS, F. J. T. Arsenical contamination of chicory during drying. *J. Sci. Food & Agr.* 1:264-266. Sept. 1950. 382 S012
- 16466 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Jam, fruit and vegetable canning. *Austral. Bur. Census & Statist. Mfg. Indus.* 22,9 p. Sept. 15, 1950. 271 Au72Ma
- 16467 BABET-CHARTON, H. La conservation des champignons. *Rustica* 23:893. Oct. 22, 1950. 14 R92
- 16468 BANTA, E. S. They freeze 'em at the orchard; enterprising growers are using quick freeze to preserve surplus fruits and create new markets. *Amer. Fruit Grower* 70(11):11-12. Nov. 1950. 80 G85
- 16469 BOEKE, J. E., and VELTMAN, B. J. The maturation of pears. (In Dutch.) *Fruittteelt* 40:762-763. Oct. 5, 1950. 86 N28
- 16470 BOYER, J. Les noix de qualité. *Rustica* 23:863. Oct. 8, 1950. 14 R92  
Processing.
- 16471 BREKKE, J. E., and TALBURT, W. F. Preparation of fig powder. *U. S. Bur. Agr. & Indus. Chem. AIC-283*, 4 p. July 1950. 1.932 A2Ag82
- 16472 BUSCH, J. Wir beginnen mit der annahme und verarbeitung von fabrikkartoffeln. *Kartoffelwirtschaft* 3:391. Sept. 29, 1950. 286.83 K14  
Germany.
- 16473 CAUL, J., SJOSTROM, L. B., and TURNER, W. P., JR. Which sweeteners are best to freeze peaches? *Food Packer* 31(13):28-29. Dec. 1950. 286.83 C165
- 16474 CRUESS, W. V. Two new smoked food products. *West. Canner & Packer* 41(12):56. Nov. 1950. 286.83 W522  
Klippered olives and smoked beans.
- 16475 DINGERDISSEN, Die überwinterung der pflanzkartoffeln. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1379-1380. Oct. 5, 1950. 18 L2346
- 16476 EDGAR, A. D. Potato storage problems can be licked. *Val. Farmer* 1(8):4. Oct. 1950. 6 V244
- 16477 EMERSON, B. Frozen papaya and guava packed in Hawaii. *West. Canner & Packer* 41(12):47-49. Nov. 1950. 286.83 W522
- 16478 EMILSSON, B., LILLIEROTH, C. G., and NILSSON, R. Treatment of potatoes with sprout preventing preparations. (In Swedish.) *Försök och Forsk.* 7:65-66. Sept. 1950. 11 F77
- 16479 FABIAN, F. W., and FULDE, R. C. Rate of salt penetration into pickles charted, size by size. 2. *Food Packer* 31(11):28-29, 38, 40, 51. Ref. Oct. 1950. 286.83 C165
- 16480 FLORIDA. INDUSTRIAL COMMISSION. Handbook of occupational information; citrus fruit canning industry of Florida. Tallahassee, 1949. 95 p. Ref. 389.3 F682  
Florida State Employment Service and Florida Cannery Association cooperating.
- 16481 THE FRUITS of the vine. *Rur. Bank N. S. Wales. Trends: Agr. Indus. Com.* 1(9):15-20. Sept. 1950. 280.9 R882  
The dried fruit industry in Australia.
- 16482 GEMEREN, P. V. Washing machine for vegetables. (In Dutch.) *Groenten en Fruit* 6:201. Sept. 21, 1950. 80 G89
- 16483 GLERUM, J. A. The cold and fruit culture. (In Dutch.) *Fruittteelt* 40:754-755. Oct. 5, 1950. 86 N28  
Storage.
- 16484 GMELIN. Die haltbarmachung von fütterkartoffeln. *Bad. Landwirt. Wchnbl.* 117:643-644. Sept. 23, 1950. 18 B142
- 16485 GOULD, W. A. Here are 26 ways to improve quality of processed snap beans. *Food Packer* 31(11):46, 48, 51. Ref. Oct. 1950. 286.83 C165
- 16486 GOULD, W. A., KRANTZ, F. A., JR., and BROWN, H. D. What factors produce a fancy pack sweet corn? *Food Packer* 31(13):26-27, 38, 40. Ref. Dec. 1950. 286.83 C165
- 16487 GROVEN, I. Fruit storage. (In Norwegian.) *Gartneryrket* 40:722-723. Oct. 14, 1950. 80 G1938
- 16488 HAMMOND, A. E. A multi-purpose air-conditioning cabinet for fruit storage. *Fruit, Flower & Veg. Trades' J.* 98(18):21. Oct. 14, 1950. 80 F946
- 16489 HANSEN, F. Storage of potatoes. (In Danish.) *Dansk Landbr.* 69:465-467. Sept. 14, 1950. 280.28 V91
- 16490 HARTMAN, D. Sugar-ascorbic spreader for frozen apricots. *West. Canner & Packer* 41(12):45-46, 51. Nov. 1950. 286.83 W522
- 16491 HEINTZE, K. Über die hitzebehandlung von leguminosen und ihre wirkung auf geschmack, proteolytische inhibatoren und biologische wertigkeit. *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 91:100-116. Ref. Aug. 1950. 384 Z39
- 16492 HILBRANDS, H. L. Potato storage places. (In Dutch.) *Boer en Tuinder* 4(198):13. Nov. 4, 1950. 12 B632
- 16493 HUGHES, D. No more black spuds. *Wis. Country Mag.* 44:20-21. Oct. 1950. 276.8 St9
- 16494 JAFFE, W. G., and CZYHRINCIW, N. Riquezas olvidadas: el mango. *Inst. Nac. de Nutr. Ser. de P. 4*, 18 p. Ref. 1950. 389.9 C17  
Processing and products.
- 16495 JENSEN, E. Das sauerkraut. Für die Landfrau 45:1. In *Landwirtbl. Weser-Ems* 97(45). Nov. 9, 1950. 18 L2345
- 16496 JIMÉNEZ, M. A. Jugo concentrado de naranja. *Agrotecnia* 4:33-37. July/Aug. 1950. 8 Ag825
- 16497 JOHNSON, G. Frozen fresh fruit sundae toppings. *West. Canner & Packer* 41(12):53, 55. Nov. 1950. 286.83 W522
- 16498 JONG, W. H. DE., and HOFSTRA, D. Experiences with storage of potatoes in buildings and in pits in the season 1949-1950. (In Dutch.) *Landbk. Tijdschr.* 62:680-696. Sept. 1950. 105.2 Or3
- 16499 KERSTENS, J. Storage of fruit. (In Dutch.) *Boer en Tuinder* 4(193):4. Sept. 30, 1950. 12 B632
- 16500 KEUKEN, W. Gas storage of fruit. (In Dutch.) *Betuws Tuinbouwhl.* 8(15):4-5. Oct. 7, 1950. 80 B464
- 16501 KOERT, J. L. Methods for storing onions. (In Dutch.) *Groenten en Fruit* 6:150-151. Aug. 31, 1950. 80 G89
- 16502 KONG, W. T. An old-fashioned apple butter stir. *Amer. Fruit Grower* 70(11):13, 20. Nov. 1950. 80 G85
- 16503 KNOWLES, F. W. Modern fruit packing plant; Cashmere [Washington] Fruit Growers Union opens new plant for packing, pre-cooling and cold storage of apples and pears with more than a million cubic feet cooling and storage capacity. *Ice & Refrig.* 119(6):24-26. Dec. 1950. 295.8 Ic2
- 16504 LANDOLT, R. Erste schweizerische anlage für die konservierung von fruchten und gemüsen durch tiefkühlung in der konservfabrik Rorschach AG., Rorschach. *Kälte* 3:183-186. Sept./Oct. 1950. 295.8 K122
- 16505 LEE, F. A., and PEDERSON, C. S. The preparation and storage of freestone peach juice and nectar. *Food Technol.* 4:466-468. Dec. 1950. 389.8 F7398
- 16506 LINDEMANN, E. Versuche mit der Starcosa-Rinnenschleuder RT 3, einer neukonstruktion für die kartoffelstärke-industrie. *Stärke* 2:202-205. Aug. 1950. 309 St22
- 16507 MARNETTE, J. L'hivernage et la conservation des légumes. *B. Hort. (n.s.)* 5:259-261. Sept. 1, 1950. 80 B873
- 16508 MATAGRIN, A. Nouveautés américaines sur la conservation des fruits et légumes. *Terre d'Occ* 32:464-466. Oct. 1950. 14 Ar5
- 16509 MEJANE, J. Notes sur le travail des pommes de terre par saccharification aux acides. *Indus. Agr. et Aliment.* 67:381-385. Aug./Oct. 1950. 383 As7  
English summary.
- 16510 MIÈGE, E. La conservation des pommes de terre. *Inform. Marocaine* 508:1-2. Oct. 7, 1950. 281.8 In3
- 16511 MOREL, T. Research on the preparation of superior copra. (In Dutch.) *Chem. Weekbl.* 46:733-739. Oct. 14, 1950. 385 C42
- 16512 MOYER, J. C. Pilot plant studies of factors affecting consistency of tomato juice. (Abs.) *Canner* 111(22):14. Dec. 2, 1950. 286.83 C16
- 16513 NEUBERT, A. M., and CARTER, G. H. Tomato canning studies in the Northwest. *West. Canner & Packer* 41(12):15-16, 18. Nov. 1950. 286.83 W522
- 16514 OHLER, H. Einiges von der zitronatherstellung. *Stärke* 2:205-206. Aug. 1950. 309 St22
- 16515 PAECH, K. Biologische probleme der tiefkühlung von obst und gemüsen. (Sum.) *Angew. Chem.* 62:416. Sept. 7, 1950. 384 Z33



16516 PATISSIER, J. La conservation des plants de pommes de terre. *Agriculture* [Paris] 14:275-278. Oct.1950. 14 Ag823

16517 POWERS, J. J., and others. Acidification and calcium-firming of canned pimientos. *Food Technol.* 4: 485-488. Ref. Dec.1950. 389.8 F7398

R. E. Morse, R. H. Sane, and W. C. Mills, joint authors. Use of citric or acetic acid.

16518 RAYFOUR, N. Better sweet potato storage. *Your Farm* 9(11):93-96. Nov.1950. 6 Y8

16519 ROBERTSON, R. N. Fruit storage and plant physiological research. *Food Preserv. Q.* 10:25-29. June 1950. 389.9 Au7F

16520 ROBINSON, W. B. The measurement and control of tomato juice color. (Abs.) *Canner* 111(22):13-14. Dec.2,1950. 286.83 C16

16521 SAMUELS, J. K. Ways to slice citrus costs. *News Farmer Coop.* 17(8):5,20-21. Nov.1950. 166.2 N47

New handling methods including bulk handling.

16522 SMITH, W. H. Temperature must be right for cold stored veg. (Sum.) *Grower* [London] 34:990-991. Nov.11,1950. 286.83 M34

16523 STENSTRÖM, M. Grönsakskonserveringens utveckling i Sverige [Development of vegetable preservation in Sweden]. *Svenska Inst. f. Konservforsk.* P. 14,7 p. 1950. 389.9 Sv2

16524 STEVENS, J. W., PRITCHETT, D. E., and BAIER, W. E. Control of enzymatic flocculation of cloud in citrus juices. *Food Technol.* 4:469-473. Ref. Dec. 1950. 389.8 F7398

16525 TALBURT, W. F., WALKER, L. H., and POWERS, M. J. Dehydrofrozen apples. *Food Technol.* 4: 496-498. Dec.1950. 389.8 F7398

16526 VAHL, E. VON. Obstaufbewahrung nach neuzzeitlichen grundsätzen. *Hannoversche Land- u. Forstwirt. Ztg.* 103:869. Sept.30,1950. 18 H194

16527 VRIES, H. DE., and LEE, J. VAN DER. Legumes as a foundation for banquet food. 1. Brown and white beans, grey peas, and broadbeans. (In Dutch.) *Voeding* 11:380-385. Ref. Oct.15,1950. 389.8 V85

English summary.  
Processing.

16528 WARNER, R. M., PILGRIM, A. J., and FISHER, C. D. Quality tests of figs after ethylene oxide fumigation. *Calif. Fig Inst. Proc. Annu. Res. Conf.* 4:29-30. 1950. 93.44 C122P

For mold control.

16529 WEGENER, J. B., and BAER, B. H. Quality comparison favors topcrop bean for freezing. *Food Packer* 31(11):54,56. Oct.1950. 286.83 C165

16530 WICKENDEN, L. Summer crops for winter; how to store vegetables, fruits and seeds. *Org. Gard.* 17(5):48-49. Nov.1950. 56.8 Or3

16531 WIERSMA, O. Storage of grapes. (In Dutch.) *Fruittelt* 40:758-759. Oct.5,1950. 86 N28

16532 WITTEWER, S. H., and SHARMA, R. C. The control of storage sprouting in onions by preharvest foliage sprays of maleic hydrazide. *Science* 112:597-598. Nov.17,1950. 470 Sci2

16533 XANDRI TAGÜENA, J. M. Algunas consideraciones sobre la elaboración de mostos concentrados. IV. *Siembra* [Madrid] 6(8/9):5-8. Aug./Sept.1950. 15 S11

#### Statistics

16534 FERNÁNDEZ GIANOTTI, A. A. Regiones citricolas argentinas. *Corp. Frutícola Argentina. Rev. Gremial* 16(187):19-21. July 31,1950. 83 C81

Area.

16535 HARTARD EBERT, M. Nuestras siembras y cosechas de papas. *Campeño* [Santiago] 82(9):25,27. Sept.1950. 9.3 So12

Chilean statistics.

16536 HUDDLESTON, H. F. Methods used in a survey of orchards (Michigan cherries). *Agr. Econ. Res.* 2:126-130. Oct.1950. 1 Ec7Agr

16537 OREGON STATE COLLEGE. FEDERAL COOPERATIVE EXTENSION SERV. Oregon's small fruit crops, 1936-1949; statistical yearbook. *Oreg. State Col. Ext. B.* 710,19 p. Aug.1950. 275.29 Or32B

16538 SCHRUMPF, W. E. Maine snap beans, sweet corn, and green peas for processing; trends in acreage, production, yield rate, consumption and price with comparisons from selected States and the United States. *Maine. Agr. Expt. Sta. Mimeog. Rpt.* 11,40 p. Mar.1950. 100 M28M

16539 WIRTH. Der wachstumsstand des gemüses ende juli 1950 in Württemberg-Baden. *Statis. Monatsh. Württemberg-Baden* 4:277-278. Aug.1950. 265 St24

16540 WIRTH. Der wachstumsstand des obstes mitte juli 1950 in Württemberg-Baden. *Statis. Monatsh. Württemberg-Baden* 4:276-277. Aug.1950. 265 St24

#### GRAIN AND GRAIN PRODUCTS

16541 ABRAHAMSON, P. E. R. Storing grain on the farm. *Gleaner* 4(10):5. Oct.1950. 6 G472

16542 ALTROGGE, L. Des experiences & des tendances concernant le développement du conditionnement des céréales. *Meun. Franç.* 51:38-44. Oct.1950. 298.8 M57

16543 ALTROGGE, L. Neue erfahrungen zur roggen-konditionierung. *Getreide, Mehl u. Brot* 4:189-192. Sept.1950. 298.8 G33

16544 ARSENAULT, L. Le gel du blé de l'Ouest et les cultivateurs de l'Est. *Foyer Rur.* [Montreal] 10(2): 4-5. Nov.1950. 7 F83

The industry in Canada.

16545 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Flour and other grain mills. *Austral. Bur. Census & Statis. Mfg. Indus.* 19,10 p. Sept.19,1950. 271 Au72Ma

16546 BACKHAUSEN, J. Stahlblechsilos, bauweise und berechnung. *Müllerei* 3:593-594. Sept.23,1950. 298.8 M91

16547 BARROSO RODRIGUEZ, A. Pan para España; estudio sobre el cultivo del trigo para normalizar el abastecimiento de pan, año 1949. *Madrid,Nueva Imprenta Radio*,1949. 179 p. 281.359 B27

16548 BAUMGARTNER, W. Der kleinemüller ohne silo oder silozellen. *Müllerei* 3:614-615. Sept.23,1950. 298.8 M91

16549 BERNARD, P. La valeur boulangère des blés pose un grave problème. *Monit. Agr.* 3(132):2. Oct.22, 1950. 14 M744

16550 BERNARD, P. Vieux papiers. *Monit. Agr.* 3 (134):2. Nov.5,1950. 14 M744

Milling and flour quality.

16551 BLAKEMAN, J. E. Supplies in western Canada of barley and oil seeds by varieties. *Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg.* 16:102-105. 1949. 59.9 C169

16552 BROECK, L. VAN. La politique du froment au cours de l'année 1949-1950. *Rev. de l'Agr.* 3:955-971. Sept.1950. 13 R322

English summary.

Belgium.

16553 BROOMHALL'S corn trade year book 1950; international grain trade statistics; records of the world's chief cereal crops imports and exports, and stocks. *Liverpool*,1950. 66 p. 286 B79

16554 BUNN, R. F. I. The manorial mills of Manchester 1525 to 1883. *Manchester Lit. & Phil. Soc. Mem. & Proc.* (1948/49)90:37-63. 1950. 501 M31M

16555 BURE, J. Contribution à l'appréciation de la valeur meunière des grains. *Meun. Franç.* 50:31-37. Aug./Sept.1950. 298.8 M57

Wheat.

16556 CASHMORE, W. H., and ANDREWS, R. O. Grain storage and handling. I-II. In *Gt. Brit. Ministry of Agriculture and Fisheries. Agricultural Land Serv. Fixed equipment of the farm*, p.45-53. 1950. 296 G7932

I, General aspects; II, The farmer's point of view.

16557 CECKA, E. J. Efficient wheat-cleaning equipment. (Abs.) *Amer. Miller & Processor* 78(12):28-29, 38. Dec.1950. 298.8 Am32

16558 CLARK, R. J. The new wheat crop of the Southwest. *Mod. Miller & Bakers News* 77(18):19. Sept.2,1950. 298.8 M72

Milling and baking quality.

16559 CLENDENNING, K. A., and WRIGHT, D. E. Separation of starch and gluten. V. Problems in wheat starch manufacture arising from flour pentosans. *Canad. J. Res. Sect. F, Technol.* 28:390-400. Ref. Oct.1950. 470 C16F

16560 CLEVE, H. Über die durchführung von mahlversuchen auf einer versuchsmühle. *Müllerei* 3:573-575. Sept.16,1950. 298.8 M91

16561 COMBS, W. B., and SMITH, F. G. Grain grading primer. *U. S. D. A. Misc. P.* 325,rev.,67 p. Ref. May 1950. 1 Ag84M



- 16562 CREUZOT, F., and LEROY, R. Application of thermosmosis to the preservation of certain products. Internatl. Inst. Refrig. B. 29:A47-A49. 1949. 295.9 In7  
Grain storage used as an example.
- 16563 CRISP, F. V. Getting a living in the corn trade. Inst. Corn & Agr. Merchants. J. 2:200-204. Autumn 1950. 10 In7
- 16564 DAVID, L. Tour d'horizon sur la meunerie britannique. Meun. Franç. 50:44-49. Aug./Sept. 1950. 298.8 M57
- 16565 DICKEY, J. B. R. Sappy corn. Pa. Farmer 143:279,299,310. Nov. 11, 1950. 6 P383
- 16566 DICKSON, A. D. Factors used in evaluating malting barley in the United States. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:45-48. 1949. 59.9 C169
- 16567 DIETZ, R. Über die lagerung von mehl in silos. Müllererei 3:616-617. Sept. 23, 1950. 298.8 M91
- 16568 DREWS, E. Säuregradbestimmungen nach den methoden Neumann und Schulerud in mahlprodukten. (Abs.) Angew. Chem. 62:432. Sept. 21, 1950. 384 Z33
- 16569 DUBOIS, M. Incidence of regulations on the properties of flour. (In Italian.) Selez. di Tec. Molitoria 1(4):3-10. (To be cont.) Aug. 1950. 298.8 Se42
- 16570 EHINGER, P. Pneumatische förderung in der reinigung. Getreide, Mehl u. Brot 4:221-223. Oct. 1950. 298.8 G33
- 16571 ERNST, J. Von den gersten der ernte 1950; gersten der ernte 1950 und ihre vermälzung. Brauwelt 1950:917-918. Oct. 26, 1950. 390.8 B732  
Germany.
- 16572 FEDERAÇÃO NACIONAL DOS PRODUTORES DE TRIGO. Relatório e contas das gerências de 1948 e 1949 [Report and accounts of activities 1948 and 1949]. Lisboa, 1950. 76 p. 281.3599 F31
- 16573 FELDMANN, H. Meine beobachtungen und erfahrungen mit der pneumatischen mühle. Getreide, Mehl u. Brot 4:231. Oct. 1950. 298.8 G33
- 16574 FERRI, P. Increase of grain culture. (In Italian.) Terra [Firenze] 61(46):2. Nov. 12, 1950. 16 T274  
Italy.
- 16575 FILES, H. W. Close cooperation between milling industry and farmers urged. Nowest. Miller 244(9): 30-31. Nov. 28, 1950. 298.8 N81
- 16576 FLEMING, R. Evaluation tests by millers pick best wheat bread. Kans. Agr. Student 27:7. Oct. 1950. 276.8 K13
- 16577 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Commodity reports: grain. Washington, 1950. 16 p. 281.3599 F73Co
- 16578 FREITAG, R. Oberflächenschutz von betonkonstruktionen. Müllererei 3:598. Sept. 23, 1950. 298.8 M91  
Grain elevators.
- 16579 GAUSS, W. Die existenzgrundlagen der württembergischen handelsmühlen. I. Müllererei 3:676-677. Oct. 14, 1950. 298.8 M91
- 16580 GERHOLD, W. Silo-aspirateure einst und jetzt. Müllererei 3:606-607. Sept. 23, 1950. 298.8 M91
- 16581 GEUZE, M. A. A bad report. (In Dutch.) Gelders Landbbl. 13(37):11. Sept. 23, 1950. 12 G282  
Grain situation.
- 16582 GLABAU, C. A. Baking characteristics of the 1950 northwestern flour. Bakers Wk. 148(8):49-52. Nov. 20, 1950. 389.8 B172
- 16583 GLABAU, C. A. A study of the baking characteristics of the 1950 soft winter wheat flour. I-II. Bakers Wk. 148(11):52-54; (12):53-55. Dec. 11-18, 1950. 389.8 B172
- 16584 GÖPP, K. Von der ernte bis zum verkauf der braugerste. Hannoversche Land- u. Forstwirt. Ztg. 103: 690,713,738. Aug. 5-19, 1950. 18 H194
- 16585 GORBACHEVA, A. P. Content of diamino acids and histidine in oats and barley. (In Russian.) Sovet. Zootekh. 5(8):87-91. Aug. 1950. 49 So822
- 16586 GORE, H. C. Measurement of the extract of cornstalks. Science 112:561-562. Nov. 10, 1950. 470 Sci2  
For sugar content.
- 16587 GRAIN & FEED DEALERS NATIONAL ASSOCIATION. National rules, 1950-1951, constitution, by-laws and rules. St. Louis, 1950. 22 p. 59.9 G763C
- 16588 HAAS, R. Papiersackverpackung von mehl. Getreide, Mehl u. Brot 4:224. Oct. 1950. 298.8 G33
- 16589 HALTMEIER, O. Messungen zur überwachung des lagergetreides. Müllererei 3:607-609. Sept. 23, 1950. 298.8 M91
- 16590 HAPPLE, K. Zweckmäßige fördermittel und armaturen für den getreidesilo. Müllererei 3:600-602. Sept. 23, 1950. 298.8 M91
- 16591 HEDWIG, O. Die bauliche gestaltung von getreide- und mehlilos. Müllererei 3:590-593. Sept. 23, 1950. 298.8 M91
- 16592 HOPF, L. Erfahrungen beim elisenbetonsilobau. Müllererei 3:596-597. Sept. 23, 1950. 298.8 M91
- 16593 HOPF, L. Nochmals siebabschaltungen. Müllererei 3:648. Oct. 7, 1950. 298.8 M91
- 16594 HORNE, F. R. Summary of methods used for testing new varieties of malting barley in certain European countries. Inst. Brewing J. 56:302-304. Sept./Oct. 1950. 390.9 In7
- 16595 INSTITUTO RIO GRANDENSE DO ARROZ. 5.º anuário estatístico do arroz, safra 1948/1949 [5th rice statistical annual, 1948/1949 season]. Porto Alegre, 1950. 103 p. 255.3 In75
- 16596 JANECKE, H. Über die haferphosphatase. (Abs.) Angew. Chem. 62:465. Oct. 7, 1950. 384 Z33
- 16597 JUDGE, L. A. Better wheat. Australas. Baker & Millers' J. 53(643):69-70. Sept. 1950. 298.8 Au7
- 16598 KLEIN, E. Neuregelung der getreidepreise und preisgebiete ab 1. oktober 1950. Württemb. Wchnbl. f. Landwirt. 117:921-922. Oct. 7, 1950. 18 W96  
Also in Bad. Landwirt. Wchnbl. 117:681-682. Oct. 7, 1950. 18 B142
- 16599 KLIMMEK, H. Unterschiede bei der mehltypen 1050. Müllererei 3:576. Sept. 16, 1950. 298.8 M91  
Germany.
- 16600 KORBER, F. Zahlenvergleiche. Kärntner Bauer 100:297-301. Sept. 1, 1950. 19 K14  
Grain prices.
- 16601 KRETOVICH, V. L., and BUNDEL', A. A. Bio-chemical peculiarities of the kernel of volunteer rye. (In Russian.) Akad. Nauk SSSR. Dok. 73:1243-1246. Ref. Aug. 21, 1950. 511 P444A  
Comparison of analyses of wheat and rye.
- 16602 KRIEGSHOFF, P. Über die möglichkeit der qualitätsbeeinträchtigung von mehlen durch jute-erzeugnisse. (Abs.) Angew. Chem. 62:431. Sept. 21, 1950. 384 Z33
- 16603 KUNTZ, O. L. Die lagerung von getreide und mehl. Müllererei 3:594-595. Sept. 23, 1950. 298.8 M91  
Storage structures.
- 16604 KUNZE, E. E. "The general" in Chicago. 1-2. Amer. Miller & Processor 78(11):22-25, 32, 35; (12):19-22, 24, 27. Nov.-Dec. 1950. 298.8 Am32  
Grain elevator.
- 16605 LAGAUSIE, F. La responsabilité des coopératives de battage en cas d'incendie. Sol 1950:161-162. 14 So4  
France.
- 16606 LAPKO, A. On keeping records for cleaning and drying of grain. (In Russian.) Kolkhoz. Proizvodstvo 10(7):42. July 1950. 281.8 K83
- 16607 LAURENT, R. La culture du sorgho au Maroc; résultats 1950 et possibilités. Inform. Marocaine 507:1,3. Sept. 30, 1950. 281.8 In3
- 16608 LINDEMANN, E. Über die ermittlung der kennlinien von mehlen. Getreide, Mehl u. Brot 4:224-228. Oct. 1950. 298.8 G33
- 16609 LUEKEN, H. Die neue getreideanlage Bremen. Müllererei 3:610-612. Sept. 23, 1950. 298.8 M91
- 16610 MENGER, A. Zur bestimmung von vitamin E in mahlprodukten. (Abs.) Angew. Chem. 62:431. Sept. 21, 1950. 384 Z33
- 16611 NAGEL, R. Neue erfahrungen mit pneumatischen mühlen! Getreide, Mehl u. Brot 4:197-201. Sept. 1950. 298.8 G33
- 16612 O'BRIEN, E. J., and DUNCAN, G. J. Quality characteristics of the Victorian wheat crop, season 1949-50. Victoria. Dept. Agr. J. 48:351-356. Aug. 1950. 23 V66J
- 16613 PARKER, J. H. The 1948 Midwest Malting Barley Contest. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:57. 1949. 59.9 C169
- 16614 PELSSENKE, P. Anforderungen der dauerbackwarenherstellung an die mehqualität in bezug auf feinheitgrad, ausmahlung und backeigenschaften. (Sum.) Z. f. Lebensmtl.-Untersuch. u. -Forsch. 91:135. Aug. 1950. 384 Z39



- 16615 PELSSENKE, P. F., and HAMPEL, G. Untersuchungen über peroxydase in getreide. Getreide, Mehl u. Brot 4:201-206. Sept.1950. 298.8 G33
- Oats.
- 16616 PLATE, R. Entwicklung des weltgetreide-marktes. Ernährungsdienst 5(121)(sup.:Landwarenkaufmann 40:1.). Oct.21,1950. 389.8 Er62
- 16617 PLATE, R. Lage der europäischen getreide-wirtschaft. Ernährungsdienst 5(131,sup.):3-6. Nov.14, 1950. 389.8 Er62
- 16618 PULKKI, L. H. The rôle of electrification in sifting. Miller 81:995-996,1004. Aug.21,1950. 298.8 M61
- 16619 RAMOS GONZALEZ, A. Pan-y piensos? Ceres [Valladolid] 14(172):35. Oct.1,1950. 15 C33
- Wheat milling policy in Spain.
- 16620 REIFF, F. Gewinnung von furfural aus getreideabfällen in USA. (Abs.) Angew. Chem. 62:431. Sept.21,1950. 384 Z33
- 16621 ROCCA, G. Crisis of the artisan mill. (In Italian.) Selez. di Tec. Molitoria 1(2):25-26. June 1950. 298.8 Se42
- Italy.
- 16622 ROOS, O. Elektrometrische bestimmung des säuregrades in mehl und brot. Getreide, Mehl u. Brot 4: 147-149. July 1950. 298.8 G33
- 16623 ROTSCHE, A. Anforderungen an die mehlqualität bei klein- und feingebäck. Getreide, Mehl u. Brot 4:213-215. Oct.1950. 298.8 G33
- 16624 ROTSCHE, A. Über die backtechnische auswirkung von phosphatzusätzen bei den heutigen handels-mehlen. Getreide, Mehl u. Brot 4:157-159. July 1950. 298.8 G33
- 16625 RUPP, E. New sedimentation test singles out high-quality wheat. Kans. Farmer 87(21):4,26. Nov.4, 1950. 6 K13
- 16626 RUPPERT, A. Gersten der ernte 1950 und ihre verarbeitung. Brauwelt 1950:918-921. Oct.26,1950. 390.8 B732
- Germany.
- 16627 SANDEGREN, E., and KLANG, N. On barley amylase and proteinase. Inst. Brewing J. 56:313-318. Ref. Sept./Oct.1950. 390.9 In7
- 16628 SAUERTEIG, H. Mehlstaubexplosion. Mülerei 3:649. Oct.7,1950. 298.8 M91
- 16629 SCHAFER, W. Untersuchungen über die was-seraufnahme des getreidekornes. Getreide, Mehl u. Brot 4:192-197. Ref. Sept.1950. 298.8 G33
- 16630 SCHILD, E., and THEN, L. Zur beurteilung der braugerste nach ihrem sortierungsergebnis. II. Brauwissenschaft 1950:193-197. Oct.1950. 390.8 B733
- 16631 SCHILTHUIS, J. The international wheat market. (In Dutch.) Econ.-Statist. Ber. 35:895-897. Nov.8,1950. 280.8 Ec722
- 16632 SCHMAUSS, H. Beitrag zur qualitätsfrage von auf der müger-darre hergestellten malzen. Brauwelt 1950:888-889. Oct.19,1950. 390.8 B732
- 16633 SCHMIDT, B. Ein querschnitt durch die mühlenpneumatik. Mülerei 3:645-647. Oct.7,1950. 298.8 M91
- 16634 SCHONBERG, J. An analysis of the grain situation. Mod. Miller & Bakers News 77(24):20-21,37, 39-40. Nov.25,1950. 298.8 M72
- 16635 SCHRIMPF, K. Einiges über den begriff der qualität und deren züchterische bearbeitung beim weizen. Mülerei 3:626-628. Sept.30,1950. 298.8 M91
- 16636 SCHULZ, A. Über durchführung und zweck des weizenbackversuches. Allg. Bäcker-Ztg. 5(41):3. Oct.13,1950. 389.8 AL5
- 16637 SCHERBAKOV, S. I. Pomoly pshenitsy i rzhii [Wheat and rye milling]. Moskva,Gos. Izd-vo Tekhn. i Ekon. Lit-ry po Voprosam Zagotovok,1949. 159 p. 298 Sh2
- 16638 SITTERDING, M. H. Can you handle immature corn? Purdue Agr. 42:5. Oct.1950. 6 P97
- Corn drying.
- 16639 SKALKA, W. Die haftung des schiedsrichters. Landwarenkaufmann 43:2-3. In Ernährungsdienst 5(130). Nov.11,1950. 389.8 Er62
- In the German grain industry.
- 16640 SKERMER, F. R. Corn off the cob. Gt. Brit. Colon. Devlpmt. Corp. Colon. Devlpmt. 1(3):34-35. Autumn 1950. 280.9 G7933C
- Utilization.
- 16641 SMITH, G. Empire's largest sorghum crop is in race with frost. Grain Prod. News 3(6):9-11,18-21. Nov.1950. 286.81 G764
- 16642 STOY, A. Erfahrungen mit den bestimmungs-methoden für B-vitamine. Getreide, Mehl u. Brot 4:144-147. Ref. July 1950. 298.8 G33
- In flour.
- 16643 STROTHER, A. What may Europe hope? Ernährungsdienst 5(131,sup.):1-2. Nov.14,1950. 389.8 Er62
- Grain outlook.
- 16644 STUMPF, H. Die betriebskontrolle des ober-müllers. Getreide, Mehl u. Brot 4:229-231. Oct.1950. 298.8 G33
- 16645 SUGDEN, G. H. Various aspects of wheat con-ditioning. Miller 81:987-990,1003. Aug.21,1950. 298.8 M61
- 16646 SUTTON, G. L. Amend the FAQ. Australas. Baker & Millers' J. 53(641):25,27,29. July 1950. 298.8 Au7
- 16647 SUTTON, G. L. By FAQ or by grade? Aus-tralas. Baker & Millers' J. 53(641):23. July 1950. 298.8 Au7
- 16648 SWORD, J. Vitamin enrichment of flour is better than long-extraction. Australas. Baker & Millers' J. 53(641):31,33-34. July 1950. 298.8 Au7
- 16649 TAMM, A. Getreide-löschen im akkord? Mülerei 3:598-599. Sept.23,1950. 298.8 M91
- 16650 THEIMER, O. F. Die belüftung von gelagertem getreide. Mülerei 3:612-614. Sept.23,1950. 298.8 M91
- 16651 THOMSON, R. M. Some malting systems in Scandinavia. Inst. Brewing J. 56:305-312. Sept./Oct. 1950. 390.9 In7
- 16652 TRISVIATSKII, L. A. Osnovy khraneniā zerna,muki i krupy [Principles of grain, flour and groats storage]. Moskva, Gos. Izd-vo Tekhn. i Ekon. Lit-ry po Voprosam Zagotovok,1950. 243 p. 59 T730
- 16653 U. S. DEPT. OF AGRICULTURE. OFF. OF IN-FORMATION. What lies ahead for corn and livestock, by F. K. Woolley, H. E. Reed, and K. M. Gapen. Wash-ington,1950. 4 p. 1.914 R2R11
- 16654 VEDDER, A. A trip along the corn fields. (In Dutch.) Drents Landbbl. 31(40):14. Oct.14,1950. 12 D812
- 16655 VELHO, H. DE L. A. Characteristics of the flour made from wheat grown in the central region of the Colony. (In Portuguese.) Agron.Angolana 3:31-37. 1950. 24 Ag83
- English summary.
- 16656 WAROUX, J. Les céréales panifiables et la récolte de 1950. Rev. de l'Agr. 3:940-954. Sept.1950. 13 R322
- English summary.
- Wheat industry in Belgium and other countries.
- 16657 WEISS, F. Regelung des verkehrs mit ge-treide und futtermitteln. Bad. Landwirt. Wchnbl. 117: 697-698. Oct.14,1950. 18 B142
- 16658 WIEGAND, K. H. Neue entwicklungen bei mülereimaschinen. Getreide, Mehl u. Brot 4:215-221. Oct.1950. 298.8 G33
- 16659 WRIGHT, A. C. Barley and brewing. II. The malting process. World Crops 2:451-454. Nov.1950. 281.8 W892
- 16660 ZUCCHINI, M. Grain primacy. (In Italian.) Agr. Ital. 1:521-523. Oct.15,1950. 16 Ag822
- English summary.

## HONEY AND BEESWAX

- 16661 ANDERSON, E. J. Attractive honey displays. Rur. New-Yorker 100:731. Oct.21,1950. 6 R88
- 16662 ANWYL, J. H. Uses of honey. Welsh Bee J. 5: 149-150. Oct.1950. 424.8 W462
- 16663 BRINK, B. E. Let's sell honey. Beekeepers' Mag. 13(11):12. Nov.1950. 424.8 M58
- 16664 BRYCE, D. L., and BRYCE, D. H. Honey show-ing and judging. I. Bee Craft 32:197. Nov.1950. 424.8 B3925
- 16665 BUZZARD, C. N. In praise of honey. Country Life [London] 108:1504-1505. Nov.3,1950. 80 C83
- 16666 CALE, G. H. Cooperation might help. Bees 4: 101. Oct.1950. 424.8 So83
- Cooperative marketing of honey.
- 16667 GARDNER, L. C. What about white honey? Beekeepers' Mag. 13(11):9-10. Nov.1950. 424.8 M58
- Prices.



- 16668 GUTMAN, G. O. Australian honey industry. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 3:105-108. July 1950. 281.9 Au73
- 16669 KOCH. Das geheimnis des honigs. Südwest-deut. Imker 2:254. Sept.1950. 424.8 Su25  
Analysis and composition.
- 16670 KOTZE, W. A. G. The marketing of honey in relation to the questions of advertising, selling price, and cost of production. So. African Bee J. 25(4):5-7. Sept./Oct.1950. 424.8 So82
- 16671 PALM, E. Treatment of rape honey. (In Swedish.) Bitidningen 49:344-345. Oct.1950. 424.8 B54
- 16672 RENTROP, E. Klarheit auf dem honigmarkt. II. Bienenwarte 3(16):4-5. Aug.25,1950. 424.8 B4722
- 16673 SCHAEFER, H. A. Big trout or small, it takes a good net! Amer. Bee J. 90:532-533. Dec.1950. 424.8 Am3  
Honey marketing; advertising.
- 16674 SCHWEISHEIMER, W. Honey—crop of many uses. Country Guide 69(11):42-43. Nov.1950. 7 G76
- 16675 THAKE, L. M. Marketing honey—a suggestion. Scot. Beekeeper 26:226-227. Nov.1950. 424.8 Sco8
- 16676 VOORT, M. VAN DER. Eat more honey; the value of advertising. So. African Bee J. 25(4):9. Sept./Oct.1950. 424.8 So82

## LIVESTOCK AND LIVESTOCK PRODUCTS

- 16677 AABERG, H. Nation's agriculture; expanding our livestock economy. Midwest Wool Growers News 19(10):2. Oct.1950. 45.8 M58
- 16678 AMERICAN MEAT INSTITUTE. Expanding livestock production makes controls unnecessary. Chicago,1950. 9 p. 281.350 Am3
- 16679 AMERICAN MEAT INSTITUTE FOUNDATION. CHICAGO. New methods for new times, a factual and photographic introduction to the American Meat Institute Foundation. Chicago,1950. 22 p. 50.9 Am322N
- 16680 ANDERSEN, J. P., and SVENDSEN, S. Recollections on the beginning of fur farming in Denmark. (In Danish.) Dansk Pelsdyravl 13:205-208. Sept.1,1950. 412.628 D23
- 16681 ANGELL, G. N. New life for the sheep industry. Idaho Farmer 68:876-877. Dec.7,1950. 6 G282
- 16682 AUBEL, C. E. What Kansas is doing in the hog business. Kans. Farmer 87(17):10. Sept.2,1950. 6 K13
- 16683 BONADONNA, T. Renew livestock action through free discussions and independence of association. (In Italian.) Gior. di Agr. 60:331-332. Oct.22,1950. 16 It1G
- 16684 BRAZHNIKOV, M. Technical reconstruction of meat industry of RSFSR. (In Russian.) Miasnafa Indus. SSSR. 21(3):6-8. May/June 1950. 50.8 M58
- 16685 BREAKWELL, E. J. Merino numbers have shown only slight upward trend since nineties. Farmer & Dairymen 43(524):14-15. Sept.1950. 23 F225  
In Australia.
- 16686 CHISHOLM, I. B. By-products of the meat-freezing industry. New Zeal. J. Agr. 81:257-263,265. (To be cont.) Sept.1950. 23 N48J
- 16687 COSSETTE, M. On a tort de ne pas songer à élever plus de moutons. B. des Agr. 46(12):14-15,58. Dec.1950. 7 B872  
Canada.
- 16688 COX, R. F. We can double or treble sheep business in State. Kans. Farmer 87(19):8. Oct.7,1950. 6 K13
- 16689 FRENCH, M. H. East African hides and skins industry. Leather Trades' Rev. 98:315-318. (To be cont.) Nov.15,1950. 303.8 L48
- 16690 FUNDLID, E. Telemark Fur Breeder's Association through 20 years. (In Norwegian.) Norsk Pelsdyrbl. 24:295-296. Sept.5,1950. 412.628 N812
- 16691 FYFE, SIR C. Origin and service for the livestock industry; formation of a Lancashire auxiliary. Roy. Lancashire Agr. Soc. J. 1950:13-16. 10 L22
- 16692 HENDERSON, D. Fur farming in the national economy; including a case history of the operation of the Fur Breeders Agricultural Cooperative at Midvale, Utah. Natl. Fur News 22(10):38,47-50,54. Nov.1950. 412.628 R59
- 16693 HERNANDEZ, C. Problemas de la ganadería. Agrotecnia 4:70-72. July/Aug.1950. 8 Ag825  
Cuba.
- 16694 HJELM, L. Development and future organization of livestock production. (In Swedish.) Ladugården 1950(7):202-205. July 1950. 44.8 L12
- 16695 HOLMES, J. Our supply situation. Butchers' Advocate 128(19):12-13,28. Nov.8,1950. 286.85 B97
- 16696 HUDEKOPER, W. Drifting back sixty years in the cow business. Mont. Stockgrower 22(10):35-36. Oct.15,1950. 49 M76
- 16697 KATO, K. The leather industry. Oriental Econ. 17:1090-1091. Oct.14,1950. 280.8 Or4  
Japan.
- 16698 KOPP, L. J. Farmers can make their trap lines pay. East. States Coop. 26(12):10-11. Dec.1950. 280.28 Ea7
- 16699 LACY, M. D. Beef cattle and cash crops in New York State. Aberdeen-Angus J. 32(4):35,89-90,92. Nov.1950. 43.8 Ab3
- 16700 LEHUCHER, J. Elevage bovin. Colon Franç. de Tunisie 60(2166):1-2. Oct.7,1950. 24 C712
- 16701 LUKAS, H. Die bedeutung der kleintierzucht für die landwirtschaft und die bevölkerung Österreichs. Osterr. Kleintierzüchter 1950:834-835. Oct.1950. 49 Os7
- 16702 MCKAY, D. H. Fat lamb production; economic study of a New England property in New South Wales. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 3:126-131. July 1950. 281.9 Au73  
Gives detailed costs and returns.
- 16703 MCKAY, W. H. Early history of Medicine Hat. Canad. Cattlemen 13(11):24-25,28-29. Nov.1950. 49 C16  
Cattle ranching.
- 16704 MILLER, R. C. Wanted—ewes. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 65(11):134-135. Nov.1950. 6 P945K
- 16705 MORITZ, F. L. Feeder calf sales—Missouri's 1950 gold rush! Mo. Farmer 42(11):3,17,20. Nov.1950. 6 M696
- 16706 MORRIS, W. E. Let's raise more sheep. Val. Farmer 1(8):7. Oct.1950. 6 V244  
Similar title in Hormel Farmer 14(3):5. Nov.15,1950. 44 H782
- 16707 MURBARGER, N. Sacred sheep of the Navajos. Ariz. Highways 26(8):10-15. Aug.1950. 45 M93
- 16708 PAIXÃO, O. S. XVII National Exposition of Livestock and Livestock Products. (In Portuguese.) B. do Leite (ser.4)(39):1. Sept.1950. 44.8 B633  
Brazil.
- 16709 SACCO, P. Not even the hundredth part! (In Italian.) Gior. di Agr. 60:333. Oct.22,1950. 16 It1G  
Outlook and policy for the Italian swine industry.
- 16710 SAFONOV, S. We shall meet the flow of raw material in an organized manner. (In Russian.) Miasnafa Indus. SSSR. 21(3):11-12. May/June 1950. 50.8 M58  
Leningrad Meat Combine.
- 16711 ST-GERMAIN, M. L'élevage du porc à bacon devient de plus en plus progressif dans Nicolet. B. des Agr. 46(10):14,52. Oct.1950. 7 B872
- 16712 ST-PIERRE, A. Profitons d'un marché avantageux. Digeste de l'Éleveur 4(9,1.e.10):22-23. June 1950. 49 D56  
Raising horses.
- 16713 SIMVOL, P. Meat combine [Bakinskiĭ] is being fitted out with the new technique. (In Russian.) Miasnafa Indus. SSSR. 21(3):13-14. May/June 1950. 50.8 M58
- 16714 SUKHANOVA, E. IŮ. Miasnye i rybnye tovary [Meat and fish products]. Moskva, Gostorgizdat, 1950. 147 p. 389 Su4
- 16715 SVENSSON, G. A herdsman's reflections at the mid-century. (In Swedish.) Ladugården 1950(7):218-220. July 1950. 44.8 L12  
Cattle keeping in Sweden.
- 16716 SWIFT & CO. AGRICULTURAL RESEARCH DEPT. Meat and the Mississippi River. Swift & Co. Elem. Sci. Booklets G,19 p. n.d. 330.9 Sw5
- 16717 TERRILL, M. Reflections from a California feedlot. Canad. Cattlemen 13(10):26-27,30-31. Oct.1950. 49 C16  
The beef cattle industry.
- 16718 U. S. BUR. OF AGRICULTURAL ECONOMICS. Lamb feeding situation, November 1, 1950. Washington, 1950. 2 p. 1.9 Ec742Lam



16719 VARDEHAUG, A. The small livestock industry in North-Trøndelag; what it yields and what it might yield. (In Norwegian.) Landbrukstidende 56:749-750. Sept.20,1950. 11 L236

16720 WIRTH, H. Die struktur der schweinehaltung in Württemberg-Baden. Tierzüchter 2:461-462. Sept.5, 1950. 49 T445

16721 ZANKER, S. Hat das Nutriafell noch einen wert? Deut. Pelztierzüchter 24:161-164. Sept.25,1950. 412.628 D48

#### Analysis and Composition

16722 BARGHOORN, E. S. Histological study of the action of fungi on leather. Amer. Leather Chem. Assoc. J. 45:688-700. Oct.1950. 303.9 Am32

16723 BARMASH, A. Determining the specific weight of food products. (In Russian.) Mfasnafa Indus. SSSR. 21(3):84-86. May/June 1950. 50.8 M58  
Meat products chiefly.

16724 BONNAND, O., and VUILLAUME, R. A propos des fraudes sur les saucissons "pur porc." Ann. des Falsif. 43:127-128. Apr./June 1950. 389.8 An72

16725 GADDIS, A. M., HANKINS, O. G., and HINER, R. L. Relationships between the amount and composition of press fluid, palatability, and other factors of meat. Food Technol. 4:498-503. Ref. Dec.1950. 389.8 F7398

16726 GOLDSCHMIDT, H. Über den fremdwasser-gehalt von wüsten in natur- und kunstdarm. Z. f. Lebensmtl.-Untersuch. u.-Forsch. 91:91-93. Aug.1950. 384 Z39

16727 LEDERER, E. Graisse de cheveux et graisse de laine. Parfumerie Mod. 42(18):38-46. Ref. May/June 1950. 308.8 P213  
Chemistry.

16728 MIRONOV, A. Loss in weight and chemical changes in frozen raw [animal] fat. (In Russian.) Mfasnafa Indus. SSSR. 21(3):26-28. May/June 1950. 50.8 M58

16729 RODDY, W. T. Physical testing on leathers. Leather & Shoes 120(23):12. Dec.2,1950. 303.8 H53

16730 SALO, T. P. The interaction of metaphosphate with collagen and deaminized collagen. Amer. Leather Chem. Assoc. J. 45:752-761. Ref. Nov.1950. 303.9 Am32

16731 SCHEID, H. E., and SCHWEIGERT, B. S. Studies on the determination of vitamin B<sub>12</sub> in meats. (Abs.) J. Anim. Sci. 9:667. Nov.1950. 49 J82

#### Consumption and Utilization

16732 FENN COLLEGE, CLEVELAND. BUR. OF BUSINESS RESEARCH. Consumer acceptance of self-service packaged meat in the Cleveland area. Fenn College, Cleveland. Res. B. 1,15 p. 1950. 280.32 F36

16733 LOWER, E. S. La lanoline (cire de laine). Indus. de la Parfumerie 5:455-458. (Concl.) Oct.1950. 308.8 In2  
Utilization.

#### Distribution, Marketing, and Transportation

16734 ARMOUR AND CO. Meat retailing in 1950, annual research report on self-service meats. Chicago, 1950. 31 p. 50.9 Ar5S

16735 BROADBENT, D. A. Initiating and developing the Western Regional Livestock Marketing Project. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.49-56. Washington, 1950. 1.98 M343

16736 CALDER, A. Marketing and grading of pigs. Scot. Farmer 58:1345. Oct.21,1950. 10 Sco8

16737 DEDERER, M. All about the auction companies. Black Fox Mag. & Mod. Mink Breeder 34(6):19,30-31. Oct.1950. 510 B56

Position of marketing in fur industry.

16738 DEVAUX, M. Le producteur et les ventes de viandes. France. Min. de l'Agr. Rev. Inform. Juridique et Sociale 1950:177-185. Oct.1950. 281.8 F84

16739 FRANCISCO, C. The integrity of the breeder; the seller of breeding stock is responsible to the breed, the purchaser, and to himself. Hoard's Dairyman 95:859,879. Dec.10,1950. 44.8 H65

16740 HOEFFLER, P. Sell them or feed them? Amer. Small Stock Farmer 35:11. Oct.1950. 48.8 J82  
Rabbit advertising.

16741 MCNEELY, J. G. How should livestock auctions operate? Sheep & Goat Raiser 31(2):79,82. Nov. 1950. 45.8 Sh3

16742 NATIONAL CONSUMER-RETAILER COUNCIL. How to buy beef. Natl. Consum.-Retailer Council. Keys Wise Buying 130,4 p. 1950. 280.9 N2126K

16743 OLSON, R. L. Know your public livestock markets. Val. Farmer 1(8):6. Oct.1950. 6 V244

16744 ONÓFRIO, P. Pastoral economy and cooperation. (In Portuguese.) Ceará, Brazil. Dept. Estad. de Coop. Coop. 15(87/88):17-18. Nov./Dec.1949. 280.28 C781

16745 O'REILLEY, L. J. Makes plea for orderly marketing of pelts. Amer. Natl. Fur & Mkt. J. 29(4):7, 14-17,20. (Concl.) Nov.1950. 412.629 Am3M

16746 PYNE, GOULD, GUINNESS. Review of wool, stock, meat and other markets—season 1949-1950, fiftieth year of issue. Christchurch,N.Z.,1950. 44 p. 286.85 P99

16747 ROSSI, L. Customs and usages in livestock trading in the Province of Cremona. (In Italian.) Rinas-cita Agr. 5(12):2. Apr.15,1950. 281.8 R47

16748 TAYLOR, M. H. Livestock purchase and sale contracts. Utah. State Agr. Col. Ext. B. 211,8 p. Oct. 1950. 275.29 U11

16749 TOMME, M. F., and POTAPOV, A. I. Peregon skota [Driving livestock]. Moskva,Gos. Izd-vo Selkhoz Lit-ry,1950. 61 p. 40 T59P

16750 WATERSTON, D. L. Cattle auctions are big business; eastern Ontario farmers are finding out that open bidding at sales auctions are bringing them better prices for their animals. Family Herald & Wk. Star 81(44):3,12. Nov.2,1950. 7 F21

16751 WILLS, W. J. Some points to consider in marketing hogs. Agr. Educ. Mag. 23:103. Nov.1950. 275.8 Ag8

16752 WIMMER, F. X. Die gewährleistungsfrist des § 933 a. b. G. B. bei viehmängeln. Wien. Tierärztl. Monatsschr. 37:537-540. (Concl.) Aug.1950. 41.8 T345

16753 WOLFF, W. C. Why community livestock auction sales oppose Federal regulation by Packers' and Stockyards' Act of 1921. Sheep & Goat Raiser 31(2):79,83. Nov.1950. 45.8 Sh3

#### Grading, Inspection, Standardization, and Quality

16754 ALBAUGH, R. Team play—California cattlemen, University join in 17 practical grading demonstrations. West. Livestock J. 28(59):57-58,60,63,65. Oct.15, 1950. 6 F2278  
Grades of live beef cattle.

16755 FARCHMIN, G. Zur statistik der fleischvergiftungen im jahre 1949. Monatsh. f. Vetmed. 5:296-298. Nov.1950. 41.8 M742

16756 GOROKHOV, I. Quality of procured livestock is improving. (In Russian.) Mfasnafa Indus. SSSR. 21(2):85-86. Mar./Apr.1950. 50.8 M58  
Compulsory deliveries.

16757 HANKINS, O. G., HINER, R. L., and SIMMONS, V. L. A study of meat characteristics of Karakul sheep. (Abs.) J. Anim. Sci. 9:637-638. Nov.1950. 49 J82

16758 KEMP, J. D. The effects of three formulations of benzene hexachloride on the flavor of pork. (Abs.) J. Anim. Sci. 9:643-644. Nov.1950. 49 J82

16759 LACHENSCHMID, B. Leitfaden der trichinen-schau. Stuttgart,Enke,1950. 173 p. 436 L112

16760 MCAULIFFE, W. S. State Championship Baconer Carcass Competition, 1950. So. Austral. Dept. Agr. J. 54:25-28. Aug.1950. 23 So84

16761 MCAULIFFE, W. S. Yahl Baconer Carcass Competition. So. Austral. Dept. Agr. J. 54:29,31. Aug. 1950. 23 So84

16762 MCMAHON, J. E. Who grades and prices beef? Farm Q. 5(4):68-73. Winter 1951. 6 F22995

16763 NAUMANN, H. D., and others. Odor, flavor and peroxide values as measures of rancidity. (Abs.) J. Anim. Sci. 9:644. Nov.1950. 49 J82  
D. E. Brady, A. Z. Palmer, and L. N. Tucker, joint authors.

16764 PALMER, Z., and others. Pork fat characteristics as related to deterioration in frozen storage. (Abs.) J. Anim. Sci. 9:644. Nov.1950. 49 J82  
D. E. Brady, H. D. Naumann, and L. N. Tucker, joint authors.



16765 RASCHKE, O. Gegen die rinderfinne. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:165-166. Aug.1950. 41.8 B45

Effects on beef.

16766 ROWLANDS, A. "What has happened to N.Z. lamb?" they're asking in England. Straight Furrow 9 (11):5. Sept.1950. 281.8 St8

16767 SCHMIDT, K. 50 Jahre deutsche fleischbeschaugesetzgebung. Monatsh. f. Vetmed. 5:265-271. Oct. 1950. 41.8 M742

16768 SORIA, G. E. Inspección sanitaria de reses porcinas; examen en pie y del animal faenado. Chacra 20(239):20-21. Oct.1950. 9 C34

16769 SORIA, G. S. Inspección de reses vacunas destinadas al consumo. Rev. Ganad. [Habana] 10(10):33-34. Oct.1950. 49 R321

Cuba.

16770 TASCHENKALENDER für fleischbeschauer und trichinenschauer, v. 18, 1950. Hannover, 1949. 198 p. 50.8 T18

16771 TSCHERMAK. Freibankfleisch. Lebensmittel u. Konserv. 1950(5):5-6. May 1950. 389.8 L492

Regulation in Austria.

16772 U. S. BUR. OF ANIMAL INDUSTRY. Meat inspection service; summary of activities fiscal year 1950. Washington, 1950. 14 p. 1.9 An537An

16773 VERGEZOV, G. Slaughtering yield of Aberdeen-Angus-Astrakhan and Hereford-Astrakhan young bulls. (In Russian.) Miasnafa Indus. SSSR. 21(2):86-88. Mar./Apr.1950. 50.8 M58

#### Packing and Packaging

16774 OCHKIN, V. On changing construction features in cans [for meat]. (In Russian.) Miasnafa Indus. SSSR. 21(3):29-30. May/June 1950. 50.8 M58

#### Prices, Price Control, and Rationing

16775 CARNES, N. K. Price controls aren't what we need! Cent. Co-op. Shipper 30(12):3. Dec.1950. 280.38 C78

Livestock.

16776 GUSLER, G. Prices may be lower but hog's mortgage-lifting power will be near normal. Mont. Farmer-Stockman 37(22):38-39. July 15, 1950. 6 M764

16777 IHM. Sachliche worte zur fleischpreispolitik. Osterr. Fleischhauer- u. Fleischselcher-Ztg. 40:1,3. Oct.7, 1950. 50.8 Os7

16778 MACKENZIE, A. M. Hill sheep prices. Scot. Agr. 30:96-102. Autumn 1950. 10 Sco825o

16779 WADLOW, T. J. If you want winter beef. Farmers Wk. [London] 33(18):55. Nov.3, 1950. 10 F2226

Prices of winter beef and cost of production.

#### Processing and Storage

16780 AUSTIN, W. E. History and development of the "mouton" process. Tech. Assoc. Fur Indus. J. 9:8-14. 1950. 412.629 T22

16781 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Bacon curing. Austral. Bur. Census & Statis. Mfg. Indus. 24,8 p. Sept.28, 1950. 271 Au72Ma

16782 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Meat and fish preserving. Austral. Bur. Census & Statis. Mfg. Indus. 38,8 p. Sept.13, 1950. 271 Au72Ma

16783 BACHRACH, M. Importance of a knowledge of furs to the fur dresser and dyer. Tech. Assoc. Fur Indus. J. 9:29-34. 1950. 412.629 T22

16784 BARSEL, A. Machine for chopping [frozen] meat chunks. (In Russian.) Miasnafa Indus. SSSR. 21(3):92-93. May/June 1950. 50.8 M58

16785 BELOV, V., and ZHISLIN, I. Production of meat cuts at Leningrad Meat Combine. (In Russian.) Miasnafa Indus. SSSR. 21(2):46-47. Mar./Apr.1950. 50.8 M58

16786 BLAIR, C. A., and EISENMAN, H. I. pH—its significance to fur processing. Tech. Assoc. Fur Indus. J. 9:41-50. 1950. 412.629 T22

16787 BOREN, F. W., and MACKINTOSH, D. L. The freezing and storage of meat in a home storage unit. (Abs.) J. Anim. Sci. 9:642. Nov.1950. 49 J82

16788 BULANOV, F. Control of meat losses in refrigerators. (In Russian.) Miasnafa Indus. SSSR. 21(3):24-26. May/June 1950. 50.8 M58

16789 BYKOV, V., and IVANOV, M. An assembly for pouring and cooling of gelatine. (In Russian.) Miasnafa Indus. SSSR. 21(2):51-53. Mar./Apr.1950. 50.8 M58

16790 CARSE, G. M. D. Curing bacon on the farm for home use. Agr. Gaz. N. S. Wales 61:474-476. Sept.1, 1950. 23 N472

16791 CHEN, P. S. Syntans and newer methods of tanning. South Lancaster, Mass. Chem. Elements, 1950. 128 p. Ref. 303 C423

16792 CHESHIRE, A., and LEE, H. The gains and losses of tannins, acids and salts in sole leather tannages of mimosa or myrabolan. Soc. Leather Trades' Chem. J. 34:378-397. Oct.1950. 303.9 So12

16793 DAS, B. M., and SEN, S. N. Bating agents for hides. III. Tanner 5(5):20-21. Oct.1950. 303.8 T15

16794 DORIN, S. Smoke-producing equipment for frying and smoking sausage products. (In Russian.) Miasnafa Indus. SSSR. 21(3):30-33. May/June 1950. 50.8 M58

16795 DOZIER, H. L., and ASHBROOK, F. G. A practical drying frame for nutria pelts. La. Conserv. 3(2):16-18. Oct.1950. 279.8 L93

16796 DUNCUM, W. J. Modern meat marketing, a picture guide to dissection: with a glossary of terms used in the meat trade. London, Practical Press, 1949. 72 p. 50 D91M

16797 DUNKER, C. F., and HANKINS, O. G. A survey of farm meat curing methods. (Abs.) J. Anim. Sci. 9:642-643. Nov.1950. 49 J82

16798 DWYER, P. Kicking oils and the kick process. Tech. Assoc. Fur Indus. J. 9:34-41. 1950. 412.629 T22

Furs.

16799 DWYER, P. Masking agents in alum tanning. Tech. Assoc. Fur Indus. J. 9:51-57. 1950. 412.629 T22

16800 EMERSON, C., BRADY, D. E., and TUCKER, L. N. The influence of storage treatment on deterioration in frozen beef. (Abs.) J. Anim. Sci. 9:643. Nov.1950. 49 J82

16801 GODOY, J. C. Consejos útiles sobre preparación de pieles para peletería. Res 18:25137. Sept.5, 1950. 286.85 R31

16802 GUSAKOVSKIĬ, Z., and NARAEVSKIĬ, V. Production of canned boiled beef in large containers. (In Russian.) Miasnafa Indus. SSSR. 21(2):31-34. Mar./Apr. 1950. 50.8 M58

16803 HALL, C. Tanning machinery in practice. Leather Trades' Rev. 98:319-321. (To be cont.) Nov.15, 1950. 303.8 L48

16804 HOTHUM, G. Durch richtige rohfellbehandlung bessere fellpreise. Kleintierzüchter Tierbörse 4(44):9. Sept.20, 1950. 49 K672

Rabbit pelts.

16805 HOWARD, A., and VICKERY, J. R. The preservation of beef by freezing: co-operative investigations. Food Preserv. Q. 10:30-31. June 1950. 389.9 Au7F

16806 IAKOVLEV, V. Ozonizer with electric discharger. (In Russian.) Miasnafa Indus. SSSR. 21(3):33-34. May/June 1950. 50.8 M58

For air ozonification in meat storage.

16807 KANYKIN, I. Mechanization and automatization. (In Russian.) Miasnafa Indus. SSSR. 21(2):48-50. Mar./Apr.1950. 50.8 M58

At Moscow Meat Combine.

16808 KENNEDY, S. J. Synthetic tannages. Leather & Shoes 120(23):16-17. Dec.2, 1950. 303.8 H53

16809 KHODAS, K. Our practice in increasing the cold storage capacity. (In Russian.) Miasnafa Indus. SSSR. 21(2):10-15. Mar./Apr.1950. 50.8 M58

Semipalatinsk Meat Combine.

16810 KHRISTODULO, D. Prolonging the time of meat cold storage. (In Russian.) Miasnafa Indus. SSSR. 21(2):20-26; (3):20-23. Mar./Apr.-May/June 1950. 50.8 M58

16811 KIZUKA, S. Shokuniku no riyo oyobi kakoho [The utilization of meat & its finishing method]. Tokyo, Chikyu Shuppan, 1949. 327 p. 389.3 K65

16812 KOGAN, B., and SHURAEV, G. Casein substitute in the production of galalith. (In Russian.) Miasnafa Indus. SSSR. 21(3):90. May/June 1950. 50.8 M58

Utilization of blood proteins.

16813 LIBERMAN, S., and MIRKIN, E. Cooling of swine fats. (In Russian.) Miasnafa Indus. SSSR. 21(2):27-31. Mar./Apr.1950. 50.8 M58

16814 MAGRI, R. Rabbits skins for tanning. (In Italian.) Libia Agr. 1950(12):2-3. Oct.15, 1950. 24 L61



- 16915 MANERBERGER, A. Stripping skins from cattle with side cut. (In Russian.) Miasnaia Indus. SSSR. 21(2):43-45. Mar./Apr.1950. 50.8 M58
- 16916 MATTA, R. Entretien des installations frigorifiques en charcuterie. Rev. Prat. du Froid 6(1):15-16; 6(2):19-20. (Concl.) Oct.-Nov.1950. 295.8 R323
- 16917 MILLS, E. G. Air-conditioned smokehouse increases meat packing profits. Instrumentation 4(6): 29-31. Third Q.1950. 297.8 In73
- 16918 NARAYANAN, A. B. Water and its importance to south Indian bark tanning industry. Tanner 5(5):16. Oct.1950. 303.8 T15
- 16919 NIKONOROV, I. Hundred ton refrigerators at the meat combines in Kazakhstan. (In Russian.) Miasnaia Indus. SSSR. 21(3):40. May/June 1950. 50.8 M58
- 16920 PLESHAKOV, M. On changes in the instructions on canned meat production. (In Russian.) Miasnaia Indus. SSSR. 21(2):35-37. Mar./Apr.1950. 50.8 M58
- 16921 POSTOI'ALKIN, P. Mill for grinding [livestock] organ preparations. (In Russian.) Miasnaia Indus. SSSR. 21(3):95. May/June 1950. 50.8 M58
- 16922 RAJA, S. Tanning and leather in other countries. Tanner 5(5):12-16. (Cont.) Oct.1950. 303.8 T15
- 16923 RÉGO, J. F. DO. Use of salt in the processing of hides. (In Portuguese.) Rev. Agron. [Pôrto Alegre] 14:108. Apr/June 1950. 9.2 R325
- 16924 RICHMOND, W. L. Know your freezing. Prog. Farmer, Miss.-Ark.-La. Ed. 65(11):19,142. Nov.1950. 6 So81
- Freezing meat.
- 16925 RODIN, A. Getting the refrigerators ready. (In Russian.) Miasnaia Indus. SSSR. 21(3):8-11. May/June 1950. 50.8 M58
- In the meat industry of U.S.S.R.
- 16926 RODRIGUEZ CASALS, C. Preparación para la manteca de puerco. Retiro Azucarero 6(18):27-29. July/Aug.1950. 65.8 R31
- Similar title in Tierra Libre (ser.2)14(7):8-9. July 1950. 8 T443
- 16927 SARKAR, P. K. Post war trend in the development of leather science. Tanner 5(5):23-24. Oct.1950. 303.8 T15
- 16928 SCHNEIDER, C. G. The effect of metaphosphate on tannin absorption in chrome-vegetable tanning. Amer. Leather Chem. Assoc. J. 45:670-681. Oct.1950. 303.9 Am32
- Includes discussion.
- 16929 SELLARDS, G. How to cut up a hog. Prog. Farmer, Tex. Ed. 65(11):52. Nov.1950. 6 T311
- 16930 TAYLOR, E. H. Farmer recipes for home-cured ham. Country-Gent. 120(11):30,159-161. Nov. 1950. 6 C833
- 16931 THEIS, E. R.- Chrome tanning. Leather & Shoes 120(23):15. Dec.2,1950. 303.8 H53
- 16932 THEISS, J. A. Praktische winke für das wursten. Osterr. Fleischhauer- u. Fleischselcher-Ztg. 40:4. Oct.7,1950. 50.8 Os7
- 16933 TYLER, W. E. Freezing is the ideal way to preserve meat and game. South. Planter 111(11):34-35. Nov.1950. 6 So89
- 16934 VOL'PIN, E., PORVATOVA, O., and ZAVRAZHNOV, A. New methods of taking out [frozen] meat loaves from molds. I-II. (In Russian.) Miasnaia Indus. SSSR. 21(3):91-92. May/June 1950. 50.8 M58
- I, by E. Vol'pin, and O. Porvatova; II, by A. Zavrazhnov.
- 16935 VORONTSOV, S. A new type of enterprise. (In Russian.) Miasnaia Indus. SSSR. 21(3):36-39. May/June 1950. 50.8 M58
- Moscow meat processing factory.
- 16936 WISE, S. G. A. Syntans; their development and use in the tanning industry. Tanner 5(5):17-19,21. (Cont.) Oct.1950. 303.8 T15
- 16937 WITTLIN, F. The processing of mouton lamb. Tech. Assoc. Fur Indus. J. 9:15-18. 1950. 412.629 T22
- 16938 WOLFF, F. W. Effect of concentration of alum salts on the absorption of oil in the fat liquoring process. Tech. Assoc. Fur Indus. J. 9:19-29. 1950. 412.629 T22
- 16939 ZHISLIN, I. Utilization of freezer for [animal] fat cooling. (In Russian.) Miasnaia Indus. SSSR. 21(3):35. May/June 1950. 50.8 M58

## Statistics

- 16940 DELRIEU, L. L'élevage et la production animale. Algérie Agr. et Vitic. 28(1134):1. Sept.9,1950. 24 AL37
- Statistics.
- 16941 LANG, J. Bestand der rinder, schweine und schafe in Bayern; ergebnisse der viehzählung am 3. juni 1950. Bayern in Zahlen 4:440-441. Sept.1950. 265 B34
- 16942 MITCHELL, M. P. Why are sheep numbers declining? Farmer's Exch. 25(7):12. Dec.15,1950. 6 F2287

## OILS AND OILSEEDS

- 16943 AKERS, H. A. Edible peanut market weaker. Peanut J. & Nut World 30(20):29. Dec.1950. 77.8 P313
- 16944 AKERS, H. A. Peanut marketing quota referendum. Peanut J. & Nut World 30(20):24,31-32. Dec.1950. 77.8 P313
- 16945 ARNEIL, A. The deodorisation of edible oils. Oil & Colour Chem. Assoc. J. 33:381-394. Sept.1950. 306.9 O15
- Includes discussion.
- 16946 AYALA VERGARA, H. Política económica en materias de grasas. Rev. de Econ. 13:311-314. Sept. 1950. 280.8 R3293
- Mexico.
- 16947 BASLAS, K. K., and DESHAPANDE, S. S. Essential oil from the berries of Lavungo scandens (Roxb.). Indian Chem. Soc. J. 27:379-382. Aug.1950. 385 In27
- 16948 BASLAS, K. K., and DESHAPANDE, S. S. Essential oil from the galls of Pistacia integerrima. Indian Chem. Soc. J. 27:441-442. Sept.1950. 385 In27
- 16949 BHATI, A. Essential oil from the resin of Commiphora mukul, Hook. ex. Stocks. Indian Chem. Soc. J. 27:436-440. Sept.1950. 385 In27
- 16950 BOLLEY, D. S., MCCORMACK, R. H., and CURTIS, L. C. The utilization of the seeds of the wild perennial gourds. Amer. Oil Chem. Soc. J. 27:571-574. Dec.1950. 307.8 J82
- Oilseeds.
- 16951 BUTLER, J. I. C. What possibilities are there for the culture of oil flax. (In Dutch.) Landbk. Tijdschr. 62:724-731. Sept.1950. 105.2 Or3
- 16952 CATTANEO, P., KARMAN DE SUTTON, G., and SCHMIDT, J. Aceites de oliva de producción nacional. II. Asoc. Quím. Argentina An. 38:268-282. Sept. 1950. 385 So1A
- English summary.
- Analysis and composition.
- 16953 CELMER, W. D. The chemistry of soybean phosphatides. Urbana, 1950. 2 p. 387.1 C332
- Abstract of thesis—University of Illinois.
- 16954 CENTRAL SOYA CO. Annual report, fiscal year ended August 31, 1949. Fort Wayne, Ind., 1949. 12 p. 286.3779 C33
- 16955 CLOSE, J. Les huiles essentielles, leur qualité et leur conservation. Cour. Agr. 15(18):3. Aug.29,1950. 24 C83
- 16956 CRAWFORD, R. V., and HILDITCH, T. P. The component fatty acids of tobacco-seed oils. J. Sci. Food & Agr. 1:230-234. Ref. Aug.1950. 382 So12
- 16957 CRUZ, A. O. Composition of Philippine singkamas oil from the seeds of Pachyrrhizus erosus (Linn.) Urb. Philippine J. Sci. 78:145-153. June 1949. 475 P53
- 16958 DAHMEN, E. A. M. F., WATERMAN, H. I., and HEERTJES, P. M. L'acide sulfureux comme catalyseur dans l'industrie des matières grasses. Chim. & Indus. 64:557. Nov.1950. 383 C42
- 16959 DAHMEN, E. A. M. F., HEERTJES, P. M., and WATERMAN, H. I. Recherches sur le procédé de durcissement par l'anhydride sulfureux. Chim. & Indus. 64:560-562. Nov.1950. 383 C42
- Oils and fats.
- 16960 DE PASQUALE, S. R. The chemical constituents of eucalyptus oils. (Sum.) Roy. Austral. Chem. Inst. J. & Proc. 17:261-262. July 1950. 385 Au72
- 16961 DOOL, H. VAN DEN. Notes on the description and classification of essential oils. Perfumery & Essential Oil Rec. 41:399-403,429. Nov.1950. 308.8 P41
- 16962 EASTMAN, R. H. The isolation of menthofuran from American peppermint oil. Amer. Chem. Soc. J. 72:5313-5314. Nov.1950. 381 Am33J



- 16963 FAURE, J. C. A. The world situation in fats and oils. (In Italian.) *Olivicoltura* 5(7):2-10. July 1950. 80 OL42
- 16964 FAY, L. J. The filtration of edible fats and oils. *Amer. Soc. Bakery Engin. Proc.* 26:244-250. 1950. 389.9 Am37P  
Includes discussion.
- 16965 FESTER, G. A., and MARTINUZZI, E. A. La esencia de peperina. 2. *Asoc. Quim. Argentina An.* 38:255-267. Sept. 1950. 385 So1A  
Bystropogon mollis.
- 16966 FITELSON, J. Squalene and the olive oil racket. *Assoc. Food & Drug Off. U. S. Q. B.* 14:128-130. Oct. 1950. 389.9 As7Q
- 16967 FONTANILLE, H. Une culture intéressante pour l'Algérie: le tournesol. *Algérie Agr. et Vitic.* 28 (1140):1. Nov. 4, 1950. 24 AL37
- 16968 FREYER, E., and SHELBURNE, V. B. The raw linseed oil acetone foots test. I-II. *Amer. Oil Chem. Soc. J.* 27:545-551. Dec. 1950. 307.8 J82
- 16969 GRACE, N. H., LIPS, H. J., and ZUCKERMAN, A. Canadian erucic acid oils. V. Physical, chemical, and edible properties of oil from weed seed screenings. *Canad. J. Res. Sect. F, Technol.* 28:401-411. Ref. Oct. 1950. 470 C16F
- 16970 GRACE, N. H. Utilization of erucic acid oils. *Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg.* 16:64-70. 1949. 59.9 C169
- 16971 GUNTHER, F. A., and BLINN, R. C. Test for microdetection of parathion in orange and lemon oils. *Analyt. Chem.* 22:1450. Nov. 1950. 381 J825A
- 16972 HENDRIX, C. H. Forward to a half billion! Feedstuffs 22(42):25-26, 28-30. Oct. 21, 1950. 286.81 F322  
The soybean industry.
- 16973 HEROUT, V., and others. On terpenes. XXI. On the terpenic and sesquiterpenic hydrocarbons from bergamot oil. *Collect. Czechoslovak Chem. Commun.* 15: 373-380. Ref. 1950. 385 C68  
V. Růžicka, M. Vraný, and F. Šorm, joint authors.
- 16974 HIERONYMUS, T. A. The economics of risk in the marketing of soybeans and soybean products. *Ann Arbor, U. Microfilms, 1949, i.e. 1950. Ref. (P. 1548)* Film 96  
Thesis—University of Illinois.
- 16975 KELLER, J. C. Peanut production estimated 11 percent below last year. *Peanut J. & Nut World* 30:35-36. Nov. 1950. 77.8 P313
- 16976 KESTERSON, J. W. Florida coldpressed orange oil. *Amer. Perfumer & Essential Oil Rev.* 56: 373-376. Nov. 1950. 308.8 Am3
- 16977 KHAN, H. A., DATAR, D. S., and ZAHEAR, S. H. Activated charcoal from groundnut hulls. *J. Sci. & Indus. Res.* 9B:236-237. Sept. 1950. 475 J82
- 16978 KONSTANDT, L. Über eine moderne fettspaltung; über die Hoffmann-fettspaltung. *Seifen-Öle-Fette-Wachse* 76:461-464. Oct. 11, 1950. 307.8 Se4
- 16979 LIPS, H. J. Color in food fats. *Food Canada* 10(11):13-16, 48. Nov. 1950. 389.8 F7323
- 16980 LIU, S. L. A preliminary study on the high boiling components of Formosan citronella oil. *Chem. Indus. & Engin.* 1:54-60. June 1950. 385 C427
- 16981 LOEW, G. Further notes on "Integral oil." (In Italian.) *Olearia* 4:294-296. July/Aug. 1950. 307.8 OL2  
English summary.  
Extraction.
- 16982 MCCULLOUGH, W. B. Production of olive fruit and oil in Argentina greatly increased. *Foreign Trade* 8:684-686. Oct. 21, 1950. 286.8 C162
- 16983 MCKINNEY, R. S. Southern tung trees provide a new oil industry. *South. Chem.* 10(3):95-101. Nov. 1950. 381 S08
- 16984 MAGNE, F. C., HUGHES, E. J., and SKAU, E. L. Density-composition data for cottonseed oil-solvent mixtures. *Amer. Oil Chem. Soc. J.* 27:552-555. Dec. 1950. 307.8 J82
- 16985 MARTINENGLI, G. B. A new model of a plant for extracting oil with solvents, fitted with a rotary extractor. (In Italian.) *Olearia* 4:285-293. July/Aug. 1950. 307.8 OL2  
English summary.
- 16986 MATTOS, G. W. T. DE. Tung oil. *Gt. Brit. Colon. Devlpmt. Corp. Colon. Devlpmt.* 1(3):12-13. Autumn 1950. 280.9 G7933C  
Program for Nyasaland.
- 16987 MENDER, A. Kleberschädigende eigenschaften der sojaerzeugnisse. (Abs.) *Angew. Chem.* 62:432. Sept. 21, 1950. 384 Z33
- 16988 MOLANO CAMPUZANO, J. Los derivados de la soya. *Rev. Agr. y Ganad.* 12(127):10, 12. Aug. 1950. 9.4 R327
- 16989 MUKHERJEE, S. Studies on the mechanism of autoxidation of fats. I-II. *Indian Chem. Soc. J.* 27:230-244. May 1950. 385 In27
- 16990 MURRAY, K. E. The essential oils of five Western Australian plants. *Roy. Austral. Chem. Inst. J. & Proc.* 17:398-402. Oct. 1950. 385 Au72
- 16991 NEVGI, G. V., and RAMAKRISHNAN, C. V. Studies on 'lipase' from oil seeds. I-IX. *Indian Chem. Soc. J.* 27:255-267, 331-344. June-July 1950. 385 In27
- 16992 NEWBY, H. A., and others. Drying oils and resins. *Indus. & Engin. Chem.* 42:2538-2541. Ref. Dec. 1950. 381 J825  
E. C. Shokal, A. C. Mueller, T. F. Bradley, and L. C. Fetterly, joint authors.
- 16993 PEPE, T. L. Apparatus for the neutralisers of sulphated oils. (In Italian.) *Olearia* 4:297-298. July/Aug. 1950. 307.8 OL2  
English summary.
- 16994 PHILLIPS, E. O. The significance of hydroxyl values in the analysis of dehydrated castor oils. (Sum.) *Oil & Colour Chem. Assoc. J.* 33:395-396. Sept. 1950. 306.9 O15
- 16995 PROCTER & GAMBLE COMPANY. BUYING DEPT. Better rendering, a manual. Cincinnati, 1949. 96 p. 307 P942
- 16996 ROCA, R. Defensa de nuestra riqueza olivarrera. *Cult. Mod.* 33:339. Sept. 1950. 15 C89  
Spain.
- 16997 SALLANS, H. R. Margarine - the relation of oil seeds to its manufacture. *Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg.* 16:62-64. 1949. 59.9 C169
- 16998 SCHWEIZER, C., and JAAG, E. Neuerungen auf dem gebiete der industrie der fette, öle, seifen und synthetischen wasch-, netz- und dispergiertmittel. *Chimia* 4:252-258. Ref. Nov. 15, 1950. 385 C444  
Chemistry.
- 16999 SEALS, W. F. Peanut publicity and merchandising expanding under Council program. *Peanut J. & Nut World* 30(20):23-24. Dec. 1950. 77.8 P313
- 17000 SKAU, E. L., and others. Phase relations pertaining to the solvent winterization of cottonseed and peanut oils in acetone. *Amer. Oil Chem. Soc. J.* 27:556-564. Dec. 1950. 307.8 J82  
W. N. Dopp, E. G. Burleigh, and L. F. Banowetz, joint authors.
- 17001 SOYA FOOD RESEARCH COUNCIL. Soy foods from a unique college. *Soybean Digest* 11:14-15. Nov. 1950. 60.38 So9  
Madison College, Tennessee.
- 17002 SPEARS, R. G. Domestic oils in margarine production. *Soybean Digest* 11:13. Nov. 1950. 60.38 So9
- 17003 STEVENSON, T. M. Trend in the production of soybeans, sunflowers and rape, as oil-seed crops in Canada. *Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg.* 16:95-98. 1949. 59.9 C169
- 17004 THALER, H. Über den nachweis der künstlichen färbung von fetten. (Abs.) *Angew. Chem.* 62:465. Ref. Oct. 7, 1950. 384 Z33
- 17005 U. S. BUR. OF AGRICULTURAL ECONOMICS. Marketing channels and margins for soybeans and soybean products in Illinois, crop years 1947 and 1948, by A. R. Sabin. Washington, 1950. 24 p. 1.941 M3M348
- 17006 U. S. PRODUCTION AND MARKETING ADMIN. Cottonseed quality in the United States, 1949. Washington, 1950. 30 p. 1.956 C82C824
- 17007 VELHO, H. DE L. A., and KABREGAS, J. L. Composition of Angola palm oils. (In Portuguese.) *Agron. Angolana* 3:133-142. Ref. 1950. 24 Ag83  
English summary.
- 17008 WATERMAN, H. I., and DAHMEN, E. A. M. F. Action de l'anhydride sulfureux sur les huiles grasses. *Chim. & Indus.* 64:558-559. Ref. Nov. 1950. 383 C42
- 17009 WHITE, W. R. Oil seeds meals - present and potential uses. *Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg.* 16:58-62. 1949. 59.9 C169
- 17010 WILBAUX, R. Note sur l'essence de vétiver du Congo Belge. *B. Agr. du Congo Belge* 41:765-772. Sept. 1950. 24 K83



- 16911 YAZICIOĞLU, T. Huiles végétales en Turquie. (In Turkish.) Türkiye Cumhuriyeti Ziraat Bankası. Uç Ayda Bir Çıkar 17:3-18. Jan./Mar.1950. 280.9 T842
- 16912 YAZICIOĞLU, T. Über das türkische lorbeer-fett. Fette u. Seifen 52:593-595. Oct.1950. 384 C422

## POULTRY AND POULTRY PRODUCTS

- 16913 ANDERSON, E. E. Changes in poultry industry put many managers behind. N. Mex. Agr. Col. Ext. News 30(10):5. Oct.1950. 275.29 N463Ex
- 16914 AUSTIN, S. L. Marketing of turkeys now is really modern. Better Farms 10(5):7. Nov.1950. 6 B462
- 16915 BAKER, R. L., and GOLDMAN, A. S. Habits, preferences and demands of Des Moines egg consumers. (Abs.) Poultry Sci. 29:747. Sept.1950. 47.8 Am33P
- 16916 BARCO, G. F. Conservación del huevo por medio del silicato de sodio. Res 18:25360. Oct.5,1950. 286.85 R31
- 16917 BARRY, S. C. Market developments of 1950. Canada Poultryman 37(10):4,25-27. Oct.1950. 47.8 C166
- 16918 BAUM, E. L., and WALKUP, H. G. Problems in poultry meat production in the Pacific Northwest. Poultry Sci. 29:858-861. Ref. Nov.1950. 47.8 Am33P
- 16919 BEANBLOSSOM, F. Z. A program to encourage egg marketing on the basis of consumer grades. (Abs.) Poultry Sci. 29:748. Sept.1950. 47.8 Am33P
- 16920 BECK, T. C. Judging eggs. Amer. Poultryman 13(8):11A-11. Dec.1950. 47.8 So86
- 16921 BEHRSTOCK, A. Doctor Romanoff's one-track mind; in the last 17 years this strange Russian scientist has beaten, frozen, smelled, smashed or eaten 139,150 eggs—chicken, duck, pheasant, grouse and goose; no wonder even the hens regard him with suspicion. Sat. Evening Post 223(22):20-21,79,81-82,85,88. Nov.25, 1950. 110 Sa8
- 16922 BOS, H. How to sell! Hatchery & Feed 24(11):12,63-65. Nov.1950. 47.8 H28  
Poultry supplies.
- 16923 BROADBENT, E. E. The demand for quality eggs in the Chicago retail trade. (Abs.) Poultry Sci. 29:751. Sept.1950. 47.8 Am33P
- 16924 BROWN, P. B. The yield of edible meat from different market classes of chickens. (Abs.) J. Anim. Sci. 9:642. Nov.1950. 49 J82
- 16925 BROWN, T. T. Market turkeys efficiently. South. Planter 111(11):36-37. Nov.1950. 6 So89
- 16926 BROWN, W. A. Goals, industry, promotion and service. Canada Poultryman 37(11):11-16. Nov.1950. 47.8 C166
- 16927 CARPENTER, C. D. Industry is in meat business. (Condensed.) Poultryman 20(15):3. Dec.1, 1950. 286.85 P86
- 16928 CAVERS, J. R. The Egg Support Program. Canad. Poultry Rev. 74(11):11-13. Nov.1950. 47.8 C16
- 16929 CONNER, J. W., and others. Experiments on the preparation and storage of turkey steaks. (Abs.) Poultry Sci. 29:754. Sept.1950. 47.8 Am33P  
E. S. Snyder, D. MacDougall, and H. L. Orr, joint authors.
- 16930 CORTIGUERA, J. A. La avicultura danesa, o el ejemplo de la selección. Agricultura [Madrid] 19:466-467. Oct.1950. 15 Ag84
- 16931 DARRAH, L. B. Sampling poultry slaughter-houses in New York City. In U. S. Agricultural Research Admin. Marketing margins and efficiency, p.77-80. Washington,1950. 1.98 M343  
Marketing.
- 16932 DAWSON, L. E., DAVIDSON, J. A., and SHEP-PARD, C. C. The relationship between egg quality and factors of production and handling on the farm. (Abs.) Poultry Sci. 29:755. Sept.1950. 47.8 Am33P
- 16933 DAWSON, L. E., DAVIDSON, J. A., and SHEP-PARD, C. C. The storageability of farm washed eggs. (Abs.) Poultry Sci. 29:755. Sept.1950. 47.8 Am33P
- 16934 DU MOND, C. C. Let's boost poultry products. Poultry Impr. Bd. N. Y. Ybk. 1950/51:3,66. 47.9 N484
- 16935 EVANS, R. J., DAVIDSON, J. A., and BUTTS, H. A. Changes in content of nutrients in shell eggs during storage. III. Some B vitamins. (Abs.) Poultry Sci. 29:757. Sept.1950. 47.8 Am33P
- 16936 FEENEY, R. E., SILVA, R. B., and MACDON-NELL, L. R. Studies on the deteriorative mechanism of egg white thinning. (Abs.) Poultry Sci. 29:757-758. Sept.1950. 47.8 Am33P  
Studies on ovomucin.
- 16937 FLETCHER, A. L. Know your ingredients: eggs. Brit. Baker 121(14):43,46. (Concl.) Nov.17,1950. 389.8 B772
- 16938 FLOREA, J. H. What's ahead in '51? Fewer eggs, more broilers, higher prices and ample feed are forecast. Poultry Tribune 56(11):12,15. Dec.1950. 47.8 P8642
- 16939 FORSYTHE, R. H., and BERQUIST, D. H. The effect of physical alteration of ovomucin on some properties of egg white—its role in egg white foams. (Abs.) Poultry Sci. 29:758. Sept.1950. 47.8 Am33P
- 16940 FORSYTHE, R. H. You can keep your eggs from sweating. U. S. Egg & Poultry Mag. 56(11):11-12. Nov.1950. 286.85 Eg3
- 16941 FRACANZANI, C. Padua the largest poultry-producing province in Italy. (In Italian.) Allevatore 6(35):3. Sept.3,1950. 49 AL55
- 16942 GUSLER, G. Better turkey prices. Mont. Farmer-Stockman 38(5):16,30. Nov.1,1950. 6 M764
- 16943 GUSLER, G. Implications of the Korean war. Amer. Poultry J. 81(10):25. Amer. Poultry J. 81(10):25. Oct.1950. 47.8 Am32
- 16944 GUSLER, G. Turkey for every oven. Farmer [St. Paul] Gen. Ed. 68(21):8. Nov.4,1950. 6 F2211  
Also in Mich. Farmer 214:309,340. Nov.4,1950. 6 M58
- 16945 GWIN, J. M. Broiler prices are hard to forecast. How important is supply of broilers? What about consumer demand? Broiler Growing 1(4):13,29. Dec. 1950. 47.8 B782
- 16946 GWIN, J. M., PIGEON, R. E., and PACKER, F. A. The effect of dressing temperatures of poultry on water absorption. (Abs.) Poultry Sci. 29:761. Sept. 1950. 47.8 Am33P
- 16947 GWIN, J. M. The sub-scald method of dressing poultry. Amer. Egg & Poultry Rev. 11(1):8,10. Nov. 1950. 47.8 Am38
- 16948 HANEBERG, B. Sind zum küktenverkauf händler notwendig? Deut. Wirtgeflügelzucht. 2:285. Sept.9,1950. 47.8 D483
- 16949 HANGER, C. F. How the Virginia Egg Law helps buyer and seller. Va. Poultryman 4(10):20,81-82. Oct.1950. 47.8 V812
- 16950 HANKE, O. A. End of an epoch! Turkey World 25(11):4,84-85. Nov.1950. 47.38 T84  
National Turkey Federation.
- 16951 HARDY, W. H. Let's improve egg quality. Everybodys Poultry Mag. 35(11):8,15-17. Dec.1950. 47.8 F213P
- 16952 HARRISON, B. A. Use of local poultry markets makes lessons more interesting and valuable. Agr. Educ. Mag. 23:102. Nov.1950. 275.8 Ag8
- 16953 HEFFNER, M. C., and BARTH, H. Irradiation, a new processing method. Amer. Egg & Poultry Rev. 11 (11):12-14. Nov.1950. 47.8 Am38
- 16954 HEIM. Interessengemeinschaft "Deutsches Ei" in Westfalen. Sonderbeilage f. Nordrhein-Westfalen, p. 9. In Milch-Fettwaren-Eierhandel 2(67). Oct.10, 1950. 286.85 M59
- 16955 HOOGENDOORN, J. Dirty shelled eggs. (In Dutch.) Boer en Tuinder 4(194):15. Oct.7,1950. 12 B632
- 16956 HUNT, G. Producing eggs for hatching broiler chicks. Farmers Fed. News 31(3):6-7. Nov.1950. 280.28 F225
- 16957 HUNTOON, R., JR. Now we can buy fryers that fit the demand and process them the year around. (Excerpts.) U. S. Egg & Poultry Mag. 56(11):13. Nov.1950. 286.85 Eg3
- 16958 HUTCHINGS, R. S. What is known about shell colour? Poultry [London] 107:358. Oct.31,1950. 47.8 P869
- 16959 HUTTAR, J. C. No egg price supports in 1951. G. L. F. Week. Serv. Sched. 15(24):3. Dec.11,1950. 280.28 G113W
- 16960 HUTTAR, J. C. Poultry in the Northeast. Poultry Indus. [Boston] 54(4):21. Oct.1950. 47.8 N44



- 16961 JANKOWSKI, B. Starke zunahme des verbrauchs an elern. Eler-, Wild-, Geflügel- u. Honig-Markt 2(40):1. Oct.5,1950. 280.38 Ei3  
In various countries.
- 16962 JENSEN, L. S., and STADELMAN, W. J. Factors affecting egg quality on the farm. (Abs.) Poultry Sci. 29:765. Sept.1950. 47.8 Am33P
- 16963 KAHLENBERG, O. J. NEPA [National Egg Products Association] Research Laboratory report. Amer. Egg & Poultry Rev. 11(11):28,30,32-33. Nov.1950. 47.8 Am38
- 16964 KAHLENBERG, O. J., LALLY, M. M., and GORMAN, J. M. What is the right way to drill frozen eggs? U. S. Egg & Poultry Mag. 56(12):14-15,28. Dec.1950. 286.85 Eg3  
In sampling for solids and bacteria.
- 16965 KALOYEREAS, S. A. Freezing eggs in the shell. Ice & Refriger. 119(5):45-47. Nov.1950. 295.8 Ic2
- 16966 KAPLAN, A. M., and others. Resting cell fermentation of egg white by streptococci. Food Technol. 4:474-477. Ref. Dec.1950. 389.8 F7398  
M. Solowey, W. W. Osborne, and H. Tublash, joint authors.
- 16967 KAUFFMAN, H. H. Wanted: turkey showman-ship! Poultry Impr. Bd. N. Y. Ybk. 1950/51:10,79. 47.9 N484  
Advertising.
- 16968 KINGHORNE, J. W. Marketing—its relationship to standard bred poultry. Amer. Poultryman 13(8):27,29,52. Dec.1950. 47.8 So86
- 16969 KNOWLES, T. E. The poultry industry; tributes to Lancashire specialist breeders. Roy. Lancashire Agr. Soc. J. 1950:17-21. 10 L22
- 16970 KOENIG, N. What we need is fewer eggs! East. Feed Merchant 1(11):16-17,41. Nov.1950. 389.78 Ea7  
Prices.
- 16971 KOONZ, C. H., and KAUFFMAN, F. L. Study of factors that influence penetration of oil into shells of eggs. (Abs.) Poultry Sci. 29:767. Sept.1950. 47.8 Am33P  
Mineral oil for coating.
- 16972 KUMMEROW, F. A., and others. Fat rancidity in eviscerated poultry. V. The effect of dietary sources of linolenic acid on the development of rancidity. (Abs.) Poultry Sci. 29:768. Sept.1950. 47.8 Am33P  
W. Wingerd, G. Jacobson, and D. Muller, joint authors.
- 16973 LARZELERE, H. E., and SHEPPARD, C. C. Methods of measuring changes in egg quality in terms of physical grade and economic value. (Abs.) Poultry Sci. 29:768. Sept.1950. 47.8 Am33P
- 16974 LAURENT, C. K. Consumer purchases of eggs, Syracuse, New York, June and August 1947. N. Y. Agr. Col. Farm Econ. 176:4553. Sept.1950. 280.8 C812
- 16975 LICHTENBERGER, Werbemassnahmen und -möglichkeiten für das deutsche ei. (Extr.) Eler-, Wild-, Geflügel- u. Honig-Markt 2(39):6-7. Sept.28,1950. 280.38 Ei3
- 16976 LORENZ, F. W., STARR, P. B., and OGASAWARA, F. K. The development of Pseudomonas spoilage in eggs. (Abs.) Poultry Sci. 29:769. Sept.1950. 47.8 Am33P
- 16977 LUCKHAM, C. F. Recommending establishment of Canadian egg & poultry board. Canada Poultryman 37(10):6. Oct.1950. 47.8 C166
- 16978 MCALLISTER, W. T., KISH, A. F., and BAUSMAN, R. O. Observations relating to the merchandising of frying chickens. (Abs.) Poultry Sci. 29:770. Sept.1950. 47.8 Am33P
- 16979 MACDONNELL, L. R., LINEWEAVER, H., and FEENEY, R. E. Deterioration of eggs caused by reducing solutions and gases. (Abs.) Poultry Sci. 29:769. Sept.1950. 47.8 Am33P
- 16980 MCNALLY, E. H., and SPICKNALL, N. A. The relation between fat content and specific gravity of dressed poultry. (Abs.) Poultry Sci. 29:771. Sept.1950. 47.8 Am33P
- 16981 MALTENFORT, M. S. Feathers being put to work; 50,000 tons of feathers can be made into useful things each year with research. Broiler Growing 1(4):14,33-34. Dec.1950. 47.8 B782
- 16982 MANN, D. Will it pay to grade eggs? Kans. Farmer 87(19):4,34-35. Oct.7,1950. 6 K13
- 16983 MOORE, A. C. I cracked 72 eggs without finding one of first-class quality. Poultry [London] 107:308. Oct.17,1950. 47.8 P869
- 16984 MORTENSON, W. P. Does it cost too much to market our eggs. Amer. Poultry J. 81(10):21-22. Oct.1950. 47.8 Am32
- 16985 MORTENSON, W. P. Margins, costs and profits in egg marketing. (Abs.) Poultry Sci. 29:772-773. Sept.1950. 47.8 Am33P
- 16986 MORTENSON, W. P., and GRAF, T. F. Marketing eggs in the Lake States. Wis. Agr. Expt. Sta. Res. B. 168,32 p. July 1950. 100 W75
- 16987 NATIONAL CONSUMER-RETAILER COUNCIL. How to buy chicken. Natl. Consum.-Retailer Council. Keys Wise Buying 128,4 p. 1950. 280.9 N2126K
- 16988 NATIONAL EGG PRODUCTS ASSOCIATION. RESEARCH LABORATORY. Chemical and bacteriological methods for the examination of eggs and egg products. Rev. Chicago,1949. 7 p. 387.1 N214
- 16989 NESTMANN, A. Eindosen von geflügel für den verkauf. Hannoversche Land- u. Forstwirtschaft. Ztg. 103:846. (To be cont.) Sept.23,1950. 18 H194
- 16990 NIEMANN, J. Umstrittene gewerbefreiheit. Eler-, Wild-, Geflügel- u. Honig-Markt 2(42):1-2. Oct.19,1950. 280.38 Ei3  
German poultry industry.
- 16991 OSBORNE, H. B. It's turkey-time the year round. West. Farm Life 52(21):9,16. Nov.1,1950. 6 R153  
Chiefly marketing.
- 16992 PAARLBERG, D. The case against price supports. Chicago,1950? 6 p. 284.3 P11  
Eggs.
- 16993 PANEK, H. Wie steht es um die eierwirtschaft im bundesgebiet? Deut. Wirtgeflügelzucht. 2:294,296. Sept.23,1950. 47.8 P483
- 16994 PARSONS, L. C. Interior egg quality; some observations on the evolution of standards. Poultry Indus. [Boston] 54(5):17. Nov.1950. 47.8 N44
- 16995 PATIL, R. M. Quality table eggs in summer. Poona Agr. Col. Mag. 41:56-59. June 1950. 22 P79
- 16996 PAULHUS, N. G. Poultry and egg markets in 30 cities. (Abs.) Poultry Sci. 29:775. Sept.1950. 47.8 Am33P
- 16997 PETERSON, G. A. Large end up from farm to frying pan. News Farmer Coop. 17(9):15-16. Dec.1950. 166.2 N47  
Effect on quality.
- 16998 PINO, J. A. Effect of washing with a hot detergent solution on keeping quality and hatchability of eggs. Poultry Sci. 29:888-894. Ref. Nov.1950. 47.8 Am33P
- 16999 POPE, W. H. Turkey approval in British Columbia. Canada Poultryman 37(11):20-21. Nov.1950. 47.8 C166
- 17000 REED, F. D. Maine produces heaviest broilers. Broiler Growing 1(4):12,35-36. Dec.1950. 47.8 B782
- 17001 RHODES, W. F., and GODFREY, G. F. The effect of washing eggs on the cuticle as measured by moisture loss and hatchability. Poultry Sci. 29:833-836. Nov.1950. 47.8 Am33P
- 17002 RISHER, F. W. Florida poultry and egg inspection. For Sale, Want & Exch. B. 3(2):1. Nov.15,1950. 280.38 F74
- 17003 ROBINSON, C. The turkey business is going to pieces. Utah Farmer 70:284,304. Nov.2,1950. 6 D45
- 17004 ROMANOFF, A. L. Electronics help grade eggs! Poultry Impr. Bd. N. Y. Ybk. 1950/51:24,82. 47.9 N484
- 17005 RÖMER, R. R. Noch einmal: die enteneier. Eler-, Wild-, Geflügel- u. Honig-Markt 2(43):1-3. Oct.26,1950. 280.38 Ei3  
In relation to disease.
- 17006 SCHMIDT, Gross- und einführhandel mit eiern in Nordrhein-Westfalen. Sonderbeilage f. Nordrhein-Westfalen, p. 5-6. In Milch-Fettwaren-Eierhandel 2(67). Oct.10,1950. 286.85 M59
- 17007 SCHMIDT, J. Pflichtstandardisierung—gebot der stunde. Eler-, Wild-, Geflügel- u. Honig-Markt 2(39):1-3. Sept.28,1950. 280.38 Ei3  
Eggs in Germany.
- 17008 SHORT, H. E. Marketing our chapter broilers. Agr. Educ. Mag. 23:107. Nov.1950. 275.8 Ag8
- 17009 TAYLOR, H. M. 1949-50 statistical summary. Va. Poultryman 4(10):24-25,99-102. Oct.1950. 47.8 V812  
Virginia poultry industry.
- 17010 TERMOHLEN, W. D. The outlook in 1951 for poultry and eggs. Amer. Egg & Poultry Rev. 11(11):36-39,63. Nov.1950. 47.8 Am38



- 17011 TOWER, B. A., and UPP, C. W. The quality of eggs held in farm egg coolers in Louisiana. (Abs.) Poultry Sci. 29:782. Sept.1950. 47.8 Am33P
- 17012 URNER, F. E. What are these hormonized cockerels replacing? Amer. Egg & Poultry Rev. 11(11): 16-17. Nov.1950. 47.8 Am38
- The market for meat types of poultry.
- 17013 VOROB'EV, V. Urgent problems in the poultry industry [U.S.S.R.]. (In Russian.) Miasnafa Indus. SSSR. 21(3):70-73. May/June 1950. 50.8 M58
- 17014 WAMPLER, C. W., and DEAN, A. L. Looking back on 25 years. Va. Poultryman 4(10):16-17,75-79,83. Oct.1950. 47.8 V812
- Virginia poultry industry.
- 17015 WATSON, D., and PAARLBERG, D. Factors affecting the price of turkeys. (Abs.) Poultry Sci. 29: 783. Sept.1950. 47.8 Am33P
- 17016 WEGGE, W. Reader panel-poll reveals how to use catalogs and mailing pieces. Hatchery & Feed 24(10): 10,62-63. Oct.1950. 47.8 H28
- Hatchery business.
- 17017 WEST, R. How fresh is a home-produced egg? Poultry Farmer [London] 123(319):7. Nov.24,1950. 47.8 F312
- 17018 WHITE, M., and PAARLBERG, D. Factors affecting the price and production of broilers. (Abs.) Poultry Sci. 29:784. Sept.1950. 47.8 Am33P
- 17019 WILHELM, L. A. The impact of certain technological changes on the poultry industry. (Abs.) Poultry Sci. 29:785. Sept.1950. 47.8 Am33P
- 17020 WINTER, A. R., and BURKART, B. Analysis of frozen egg products. (Abs.) Poultry Sci. 29:785-786. Sept.1950. 47.8 Am33P
- 17021 WINTER, A. R. Recent developments in frozen poultry products. Amer. Egg & Poultry Rev. 11 (11):24-26. Ref. Nov.1950. 47.8 Am38
- Eggs and meat.
- 17022 WOLK, J. A comparison of methods for the bacteriological examination of shell eggs. (Abs.) Poultry Sci. 29:786. Sept.1950. 47.8 Am33P
- 17023 WOODROOF, J. G., and SHELOR, E. Advances in Georgia's frozen broiler industry. (Abs.) Poultry Sci. 29:786-787. Sept.1950. 47.8 Am33P
- 17024 WOOLLAM, G., and MURRAY, G. Seasonal variation in the prices of poultry meat in the Montreal market. Econ. Annal. 20:134-136. Dec.1950. 281.8 Ec72
- 17035 CRAIG, D., JUVE, A. E., and DAVIDSON, W. L. Tetramethylthiuram disulfide vulcanization of extracted rubber. I. J. Polymer Sci. 5:709-718. Ref. Dec.1950. 381 J829
- 17036 EVANS, I. B. N. Recent engineering developments with rubber. Rubber Devlpmt. 3:73-81. Sept.1950. 305.8 R828
- Utilization.
- 17037 INDIA. DIRECTORATE OF ECONOMICS AND STATISTICS. Indian rubber statistics 1944 to 1947. Calcutta,1950. 41 p. 269.5 C732In
- 17038 KONRAD, E., and BECKER, W. Zur geschichte des bei tiefer temperatur polymerisierten synthetischen kautschuks. Angew. Chem. 62:423-426. Ref. Sept.21, 1950. 384 Z33
- 17039 LOPINSKI, H. Die ordnung des wettbewerbs. Kautschuk u. Gummi 3:266-268. Aug.1950. 305.8 K162
- Marketing.
- 17040 MALAYA. DEPT. OF STATISTICS. Rubber statistics handbook, 1949. Alor Star,1950. unpagged. 269.6 St83
- 17041 NOLAN, A. Current events in hevea latex. Siam Trade & Econ. Rev. 8:340-341,374. Aug.1950. 286.8 S11
- 17042 NOLEN, R. Terms of sale and arbitration regulation of the O.V.E.I.P. (In Dutch.) Bergcultures 19: 334-337,354-355,357. (Cont.) Sept.16-Oct.1,1950. 22.5 B45
- Rubber.
- 17043 RACHNER, M. Erfahrungen mit neuen vulkanisationsbeschleunigern. Chem. Tech. 2:208-216. July 1950. 384 C4283
- 17044 RE, R. R. Extracción de caucho de "Taraxacum kok-saghyz." La Plata. U. Nac. Facul. de Agron. Rev. 27:79-96. Ref. Dec.1949. 9 R32
- English summary.
- 17045 TRYON, M. An improved apparatus for determining moisture in rubber by distillation with toluene. U. S. Natl. Bur. Standards. J. Res. 45:362-366. Ref. Nov.1950. 157.88 J82
- 17046 WITTIG, W. L., and MILLER, R. F. Radio-frequency heat in the rubber industry. II. India Rubber World 123:186-189,228. Nov.1950. 305.8 In2
- 17047 ZHDANOVA, L. P. Conference on the problem of natural rubber and gutta-percha. (In Russian.) Akad. Nauk SSSR. Vest. 20(6):79-83. June 1950. 511 Ak14V

## SEEDS

## RUBBER AND RUBBER SUBSTITUTES

- 17025 ALLIGER, G., and HARRISON, S. R. N-cyclohexyl-N', N'-diethylthiocarbamyl sulfenamide as an accelerator. India Rubber World 123:181-185. Nov.1950. 305.8 In2
- 17026 AMERONGEN, G. J. VAN, KONINGSBERGER, C., and SALOMON, G. Chlorination of natural rubber. I-II. J. Polymer Sci. 5:639-666. Ref. Dec.1950. 381 J829
- II, by G. J. van Amerongen, and C. Koningsberger.
- 17027 ASHPLANT, H. Plantation research in Indochina. India-Rubber J. 119:810,813-814,816. (Cont.) Nov.18,1950. 305.8 In21
- 17028 ASHPLANT, H. Plantation research in Indonesia. India-Rubber J. 119:657-658,697-699,707. Oct.21-28,1950. 305.8 In21
- 17029 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Rubber works. Austral. Bur. Census & Statis. Mfg. Indus. 30,8 p. Aug.2,1950. 271 Au72Ma
- 17030 BAADER, T. Die prüfung der verarbeitungs-eigenschaften von kautschuk. Kautschuk u. Gummi 3:245-248,279-280,323-325,361-363. (Concl.) July-Oct.1950. 305.8 K162
- 17031 BÄCHLE. Über das quellvermögen von latex-filmen in Wasser. Kautschuk u. Gummi 3:318-322. Ref. Sept.1950. 305.8 K162
- 17032 BEHRE, J., and ANDRESEN, A. Kolloidchemische betrachtungen über kautschukmischungen. Kautschuk u. Gummi 3:239-244. Ref. July 1950. 305.8 K162
- 17033 BOONSTRA, B. B. S. T. Stress-strain properties of natural rubber under biaxial strain. J. Appl. Phys. 21:1098-1104. Nov.1950. 334.8 P563
- 17034 BORN, S. Umschlchtungen in der produktion; die kautschuk-industrie des Bundesgebietes im 1. halbjahr 1950. Kautschuk u. Gummi 3:305-307. Sept.1950. 305.8 K162
- 17048 ARGENTINA. MINISTERIO DE AGRICULTURA Y GANADERIA. DIV. ANÁLISIS DE SEMILLAS. Pesos y medidas de las semillas de las malezas de los cereales y oleaginosas. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(13):33-38. July 1950. 9 Ar35
- 17049 BASSE, H. Sortenliste - sortenzwang? Saatgut-Wirtsch. 2:201-202. Sept.1950. 61.8 Sa1
- Seed legislation in Germany.
- 17050 BEESON, K. E., and HACKLEMAN, J. C. Seed certification. Seed World 67(10):12,42-43. Nov.17,1950. 61.8 Se52
- 17051 BERENDES, P. Ueber saatgutwechsel. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1409-1410. Oct.12,1950. 18 L2346
- 17052 BOHNE, W. Zum thema "neues saatgutgesetz." Saatgut-Wirtsch. 2:202-203. Sept.1950. 61.8 Sa1
- Germany.
- 17053 BRETT, C. C. Modern seed analysis—its development and problems. Inst. Corn & Agr. Merchants. J. 2:158-164. Autumn 1950. 10 In7
- 17054 CANADIAN SEED GROWERS' ASSOCIATION. 1949-1950 annual report and minutes of the 1950 annual meeting. Ottawa,1950. 69 p. 61.9 C16
- 17055 CANNON, G. Bluetag seed. Farm Q. 5(4):54-57,137-139. Winter 1951. 6 F22995
- Certified seed.
- 17056 CHRISTIAN, W. E., JR., and DOYLE, B. K. Mississippi seed industry. Miss. Agr. Expt. Sta. C. 153, 14 p. June 1950. 100 M69
- 17057 DEE, W. E. Farmers advised what to look for when buying seed. Amer. Tung News 1(11):7,18-19. Sept. 1950. 307.8 Am33
- 17058 ESSERS, W. Samenbau in Frankreich. Saatgut-Wirtsch. 2:197-198. Sept.1950. 61.8 Sa1



- 17059 FINKENZELLER, R. Reinigen und beizen von saatgetreide. Dreschen u. Pflügen 3(10):4-6. Oct.15, 1950. 58.8 D81
- 17060 GARRISON, C. S. Foundation Seed Project progresses; certified grass, legume supplies growing. Feed Bag 26(12):95-96. Dec.1950. 389.78 F32
- 17061 GARRISON, C. S. More improved grass, legume seed is on the way. Agr. Situation 34(11):11-19. Nov.1950. 1 Ec7Ag
- 17062 GOULDEN, C. H. Problems for the seed grower. Canad. Seed Growers' Assoc. Annu. Rpt. 1949/50:25-31. 1950. 61.9 C16 Standards.
- 17063 IDAHO CROP IMPROVEMENT ASSOCIATION. Seed sources of Idaho certified alfalfa, clovers, grasses, beans, barley, oats, wheat, onions, potatoes, for 1951 plantings. Boise, 1950. 107 p. 225 Id1
- 17064 KAMPE. Grundsätzliches sur sortenliste. Saatgut-Wirtsch. 2:203-204. Sept.1950. 61.8 Sa1 Seed legislation. Germany.
- 17065 KURTZ, L. D. Report on seed supplies. G. L. F. Week. Serv. Sched. 15(21):1. Nov.20,1950. 280.28 G113W
- 17066 MEHLISCH, K. Die lagerung von sämereien. Saatgut-Wirtsch. 2:198-199. Sept.1950. 61.8 Sa1
- 17067 NICOLAISEN, W. Zum neuen saatgutgesetz. Saatgut-Wirtsch. 2:195-197. Sept.1950. 61.8 Sa1 Germany.
- 17068 PICKETT, J. California's seed oil well. Calif. Farmer, North. Ed. 193:492-493. Dec.2,1950. 6 C126 California's seed industry.
- 17069 RIET, G. VAN 'T. On the seed business. (In Dutch.) Zaaibelangen 4:437-440. Aug.15,1950. 61.8 Z1 Netherlands.
- 17070 SCHUPHAN, W. Neue schnellmethoden zur unterscheidung von Brassica-varietäten und -formen am samen. Saatgut-Wirtsch. 2:206-207. Sept.1950. 61.8 Sa1
- 17071 SPENNEMANN. Grundsätzliches sur sortenliste. Saatgut-Wirtsch. 2:205-206. Sept.1950. 61.8 Sa1 Seed legislation in Germany.
- SUGAR AND SIRUPS**
- 17072 AHLFELD, H. The sugar economic situation of Asia. F. O. Licht's Sugar Inform. Serv. 82(8):1-2. Aug.21,1950. 66.8 L61
- 17073 BAXA, J. Die kolonialzuckerraffinerien in Österreich 1750-1864. Zucker 3:354-355. Aug.15,1950. 65.8 Z82
- 17074 BORTOLINI, P. Evaporation of solutions; notes on thermodynamics. (In Italian.) Indus. Sac. Ital. 43:228-235. July/Aug.1950. 65.8 In23
- 17075 BUCK, W. R. The sugar industry in Egypt. Internal. Sugar J. 52:369-370. (To be cont.) Nov.1950. 65.8 In8
- 17076 CHEREDNIK, V. A. Blanching of first molasses. (In Russian.) Sakh. Promysh. 24(7):18-20. July 1950. 65.8 Sa2 In sugar manufacture.
- 17077 CHOU, J. C., and LO, Y. F. The efficiency of clarification by middle juice carbonation. (In Chinese.) Taiwan Sugar J. Q. 3:34-42. Ref. Aug.1950. 65.8 T13 English summary.
- 17078 CHOU, T. Y., and others. Cane juice concentration & sulphate removal—a comparison between DeHann's process & middle juice carbonation. (In Chinese.) Taiwan Sugar J. Q. 3:1-9. Ref. Aug.1950. 65.8 T13 R. H. Tseng, P. K. Chang, and C. P. Chen, joint authors. English summary.
- 17079 CHOU, T. Y., and CHEN, C. P. Middle juice carbonation. Chem. Indus. & Engin. 1:48-53. June 1950. 385 C427
- 17080 CHOU, T. Y., CHANG, P. K., and CHEN, C. P. A preliminary study of sulphate scale in evaporators & middle juice carbonation. (In Chinese.) Taiwan Sugar J. Q. 3:10-15. Aug.1950. 65.8 T13 English summary.
- 17081 A COMPARATIVE study of the sugar industry in Hawaii and Taiwan. I. (In Chinese.) Taiwan Sugar J. Q. 3:191-205. Aug.1950. 65.8 T13
- 17082 DENZER, H. Schwierige zuckerrübenkampagne in sicht. Landbote 4(33):4. Aug.19,1950. 18 L2336 Germany.
- 17083 DÖRNER, H. Über dextrinbestimmungsmethoden. Getreide, Mehl u. Brot 4:206-208. Sept.1950. 298.8 G33 In sirups and bread.
- 17084 DRONOV, S. F. On beet chips. (In Russian.) Sakh. Promysh. 24(8):23-26. Aug.1950. 65.8 Sa2 In sugar manufacture.
- 17085 FAUSEL, W. Durchführung der zuckerrübenabnahme 1950. Württemb. Wchnbl. f. Landwirt. 117:887. Sept.23,1950. 18 W96 Also in Bad. Landwirt. Wchnbl. 117:644-645. Sept.23, 1950. 18 B142
- 17086 FITZHUGH, J. R. Top roll action in 3-roller cane mills. Internatl. Sugar J. 52:362-364. Nov.1950. 65.8 In8
- 17087 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Commodity reports: sugar. Washington, 1950. 29 p. 281.3659 F73
- 17088 FRIDMAN, S. E. Not to allow losses of sugar beets. (In Russian.) Sakh. Promysh. 24(8):10-13. Aug. 1950. 65.8 Sa2 In storage and transportation mainly.
- 17089 FUCHS, C. Sugar prospects for 1951. Confectionery-Ice Cream World 44(22):24. Dec.1,1950. 389.8 C767
- 17090 GARCIA BAYLLERES, J. L. IV National Convention of Sugar Chemists. Retiro Azucarero 6(18):4,24. July/Aug.1950. 65.8 R31
- 17091 GARCIA BAYLLERES, J. L. El porvenir de Cuba, en manos de los químicos azucareros. Retiro Azucarero 6(18):25-26,29. July/Aug.1950. 65.8 R31
- 17092 GILLET, E. C., and KENDA, W. Development of the Gillett process of sugar crystallization. Internatl. Sugar J. 52:365-368. (To be cont.) Nov.1950. 65.8 In8
- 17093 GLYBIN, G. A., and GORBAN', D. V. Our achievements in the postwar Five-Year Plan. (In Russian.) Sakh. Promysh. 24(7):14-16. July 1950. 65.8 Sa2 Globinskii sugar factory.
- 17094 HADDON, E. Some Natal and Mauritius factory figures season 1949/50. Rev. Agr. de l'Ile Maurice 29:112-113. May/June 1950. 24 M44 Sugar manufacture.
- 17095 HOFFING, E. H., and HAAGENSEN, E. A. Optimum conditions for sugar filtration. Sugar 45(11):32-33. Nov.1950. 65.8 F11
- 17096 JOUSSELLIN, R. Le sucre de canne dans l'économie de l'Union Française. Agriculture [Paris] 14:259-261. Sept.1950. 14 Ag823
- 17097 KING, N. J. The effect of the recent sugar agreement with Britain on Queensland sugar cane agriculture. Queensland Bur. Sugar Expt. Stas. Cane Growers' Q. B. 14:1-3. July 1,1950. 65.9 Q3C
- 17098 KOKHAN, M. A. Achievements of Khodorov sugar refining factory. (In Russian.) Sakh. Promysh. 24(8):18-20. Aug.1950. 65.8 Sa2
- 17099 KOLOMIETZ, M. E., and KOSTYRIN, A. P. Innovators of the Kalinin sugar factory. (In Russian.) Sakh. Promysh. 24(7):17. July 1950. 65.8 Sa2
- 17100 KUL'CHITSKAIA, E. F., and KHITUN, I. M. From practices at Makharinefskii sugar factory. (In Russian.) Sakh. Promysh. 24(8):34-36. Aug.1950. 65.8 Sa2
- 17101 LEADER EVAPORATOR CO. Maple sugar maker's guide, 1888-1949. Essex Junction, Vt., 1950? 48 p. 67 L46 Equipment.
- 17102 LEDDET, P. Compra y recepción de melazas. Indus. Azucarera 56:460-461. Sept.1950. 65.8 In22
- 17103 LEDDET, P. Conservación de las melazas - daños causados a las mismas en ocasión de su almacenamiento. Indus. Azucarera 56:502,504,506-508. Oct. 1950. 65.8 In22
- 17104 LEE, Y. T., and KOE, L. J. A study on the isolation of two butanol bacteria suitable for fermenting molasses. (In Chinese.) Taiwan Sugar J. Q. 3:60-73. Aug.1950. 65.8 T13 English summary.



17105 A LIST of publications relating to the study of solvent fermentation during the last fifty years. (In Chinese.) Taiwan Sugar J. Q. 3:225-261. Aug.1950. 65.8 T13

17106 LOCSIN, C. L. Analysis of some Philippine molasses and sugars. Sugar J. 13(6):16-19. Nov.1950. 65.8 Su391

17107 MENTZER, J. Zuckerzuteilung zur herbstauffu'tterung. S'udwestdeut. Imker 2:286. Oct.1950. 424.8 Su25

17108 MOHAMED MOUSTAPHA, M. Le sucre dans le monde; sa production, sa consommation et son commerce. Feuilles Agr. 8:95-99. Jan./Mar.1950. 24 F43

17109 MÖHLER, K. Neuartige süsstoffe. II. Z. f. Lebensmitl.-Untersuch. u. -Forsch. 91:124-126. Aug. 1950. 384 Z39

17110 THE ORIGIN of cane wax industry. (In Chinese.) Taiwan Sugar J. Q. 3:74-88. Ref. Aug.1950. 65.8 T13

17111 OVCHINNIKOV, M. P. Calculation of yielded yellow sugar. (In Russian.) Sakh. Promysh. 24(8):32-33. Aug.1950. 65.8 Sa2

17112 PILGRAM, R. Horizontal disk beet slicers. Sugar 45(11):34,43. Nov.1950. 65.8 F11

17113 RAMIREZ, J. C. Cuatro conferencias. Mante, Tamaulipas, Mexico, Cooperativa de Djidatarios y Obreros del Ingenio del Mante, S. C. L., 1950. 83 p. 280.265 R14 Cooperative marketing of sugar.

17114 RAO, D. A. A. S. N. Dielectric constants of cane sugar. Cur. Sci. 19:276-277. Sept.1950. 475 Sci23

17115 RIETBERG, H. Present aspects of sugar beet culture. (In Dutch.) Zeeuwisch Landbbl. 38(2041): 1-2. Oct.21,1950. 12 Z2

17116 ROMPRÉ, N. Evolutions-progrès possibilités de l'industrie de l'érable. Abeille et l'Érable (ser.2):19: 116-118. Oct.1950. 424.8 Ab32

17117 SCHONFIELD, A. Sugar on the world market. Farmer & Countryman 39(38):6. Sept.22,1950. 24 F227

17118 SILIN, P. M. Voprosy tekhnologii sakharistykh veshchestv [Problems in technology of sugar]. Moskva, Pishchepromizdat, 1950. 297 p. 65 Si32V

17119 STAUB, S. Report of a technical mission to France, England, South Africa and the U. S. A. II. Internatl. Sugar J. 52:371-373. Nov.1950. 65.8 In8

17120 STEPANEK, J. E., and PRIEN, C. H. Small chemical industries for China. 3. Sugar and insecticides manufacture. Chem. & Engin. News 28:4250-4253. Dec.4,1950. 381 J825N

17121 TAN, L. P. Middle juice carbonation. (In Chinese.) Taiwan Sugar J. Q. 3:16-33. Ref. Aug.1950. 65.8 T13

English summary.

17122 ULRICH, K. Eine illustre zuckerfabrik. Zucker 3:355-356. Aug.15,1950. 65.8 Z82 Historical.

17123 VAZQUEZ, E. A. Levadura de melaza y cachaza. Asoc. de Téc. Azucareros de Cuba. B. Ofic. 9:217-221. Aug.1950. 65.9 As5B

17124 VIL'ANSKIĬ, M. L. Hydraulic unloading of [sugar] beets from railroad cars. (In Russian.) Sakh. Promysh. 24(8):30-32. Aug.1950. 65.8 Sa2

17125 VOL'KENSHTĖIN, B. M. Analysis of [sugar] beet costs. (In Russian.) Sakh. Promysh. 24(7):23-24. July 1950. 65.8 Sa2

In sugar manufacture.

17126 WEISS, F. J. Tobacco and sugar. New York? Sugar Res. Found., 1950. 66 p. 69 W43 Sugar in tobacco processing.

17127 ZHETVIN, D. P. Acceptance of sugar beets from collective farms according to sugar content. (In Russian.) Sakh. Promysh. 24(7):12-13. July 1950. 65.8 Sa2

17128 ZHVIRBL'ANSKIĬ, Ĭ. M. Work at the crystallization station of the second product [molasses]. (In Russian.) Sakh. Promysh. 24(8):27-30. Aug.1950. 65.8 Sa2

Sugar manufacture.

17129 ZIL'BERMAN, I. I. Rational duration of beet sugar production. (In Russian.) Sakh. Promysh. 24(7):5-10(8):5-9. July-Aug.1950. 65.8 Sa2

## TOBACCO

17130 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Tobacco, cigars and cigarettes. Austral. Bur. Census & Statis. Mfg. Indus. 27,7 p. July 14,1950. 271 Au72Ma

17131 BRYAN, A. B. Turkish tobacco is being grown in the South. Agr. Leaders' Digest 31(10):25. Nov.1950. 275.28 Am3

17132 CARALL-WILCOCKS, E. E. Kasungu tobacco. Gt. Brit. Colon. Devlpmt. Corp. Colon. Devlpmt. 1(3): 18-19. Autumn 1950. 280.9 G7933C The industry in Nyasaland.

17133 CUBA. COMISION NACIONAL DE PROPAGANDA Y DEFENSA DEL TABACO HABANO. Resumen analítico del consumo de productos tabacaleros en la República en el decenio de 1940-1949. Habana, 1950. 10 p. 254.8 C8972Rc

17134 HOLDEN, M., PIRIE, N. W., and TRACEY, M. V. A study of enzymes that can break down tobacco-leaf components. 1-5. Biochem. J. 47:399-431. Ref. Oct.1950. 382 B52

2, by M. Holden and M. V. Tracey; 3, by M. Holden; 4, by M. Holden and M. V. Tracey; 5, by M. Holden.

17135 KIGER, H. C. Members for tobacco co-op. News Farmer Coop. 17(9):7,16-18. Dec.1950. 166.2 N47 Flue-Cured Tobacco Cooperative Stabilization Corporation.

17136 KOENIG, P. Ständige internationale zusammenarbeit (collaboration internationale permanente) auf dem gebiete des tabaks. Süddeut. Tabakztg. 60(40):4. Oct.6,1950. 286.89 Su2

17137 MAURITIUS. TOBACCO BOARD. Report on the operations of the Tobacco Board and the tobacco warehouse, year ended 30th June 1949. Port-Louis, 1949. 16 p. 69.9 M44 Statistical.

17138 MEISNER, F. Bedenkliche lage für den absatz inländischer rohtabake ernte 1950. Süddeut. Tabakztg. 60 (41):5. Oct.13,1950. 286.89 Su2

Also in Bad. Landwirt. Wchnbl. 117:730-731. Oct.28, 1950. 18 B142

17139 MEISNER, F. Die ersten einschreibungen für die inlandstabake der ernte 1950. Bad. Landwirt. Wchnbl. 117:683-684. Oct.7,1950. 18 B142

Similar title in Süddeut. Tabakztg. 60(39):4. Sept.29, 1950. 286.89 Su2

17140 MEISNER, F. Kampf dem dachbrand. Bad. Landwirt. Wchnbl. 117:642-643. Sept.23,1950. 18 B142 Tobacco curing.

17141 STYLES, W. M. Present tobacco market grew from one warehouse in 1930. Farmers Fed. News 31(4): 7. Dec.1950. 280.28 F225 North Carolina.

## MISCELLANEOUS PRODUCTS

17142 BONNER, J., and HONDA, S. Treatments for increasing the life of cut Camellia flowers. In Southern California Camellia Society. Horticultural Research Committee. Camellia research, p.45-47. Pasadena, 1950. 97.31 So822

17143 BRUNK, M. E., and THOMPSON, G., JR. Seasonal variation in wholesale prices of roses. N. Y. Agr. Col. Farm Econ. 176:4551-4552. Sept.1950. 280.8 C812

Also in N. Y. State Flower Growers. B. 61:2-3. Sept. 1950. 80 N486

17144 BUTTERFIELD, N. W. Floriculture—a modernized industry. Farm Bur. Mass. 1950:15,28. Oct. 1950. 275.293 Mass

17145 DRESTI, G. M. The processing of pilchards and other small fish. Food Indus. So. Africa 3(7):30-31. Nov.1950. 389.8 F7372

17146 FISCHER, C. F., JR. Keeping cut flowers. Florists' Rev. 107(2764):21-22. Nov.16,1950. 80 W41

17147 FISCHER, C. W., JR. Ethylene gas a problem in cut flower storage. N. Y. State Flower Growers. B. 61: 1.4. Sept.1950. 80 N486

Similar title in Canad. Florist 45(22):7-8,30. Nov.15, 1950. 80 C163

17148 JOLY, R. L. La culture des plantes à parfum en Tunisie. Indus. de la Parfumerie 5:454. Oct.1950. 308.8 In2



17149 LAFONT, R. L'industrie du nuoc-mam au Cambodge. B. Econ. de l'Indochine 53:259-263. Sept./Oct.1950. 22.5 In2

Manufacture of a fish product.

17150 PAVLIŦCHENKO, E. E. Changes in the practice of salting Okhotsk herring. (In Russian.) Rybnoe Khoz. 26(9):39-41. Sept.1950. 414.8 R962

17151 ROZENBAUM, T. I. A. Automatic regulation of frying in frying ovens at the fish canning factories. (In Russian.) Rybnoe Khoz. 26(8):22-25. Aug.1950. 414.8 R962

17152 SCHUPPER, J. B. F. M. What can we read from self collected figures? (In Dutch.) Vakbl. v. de Bloemisterij 5:308. Sept.22,1950. 80 V22  
Flower industry.

17153 SUKRUTOV, N. I. Preparation of sprat products from frozen sprats. (In Russian.) Rybnoe Khoz. 26(8):18-21. Aug.1950. 414.8 R962

17154 SZASZ. Emploi de l'acide ascorbique dans la conservation du poisson. Rev. des Ferment. et des Indus. Aliment. 5:160-162. Oct.1950. 390.08 R32

17155 WELLS, J. S. It's the package that counts; eye-appeal has first call in U. S. market. Nurseryman & Seedsman 111:518-519. Aug.31,1950. 80 N933  
Packaging of cut flowers.

17156 ZOCHER, A. Der heutige stand der chemischen forschung auf dem gebiet der hopfenbitterstoffe. Brauwissenschaft 1950:197-199. (To be cont.) Oct.1950. 390.8 B733

#### AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

References on farm structures and rural housing are classified with Agricultural Engineering.

##### GENERAL

17157 ARANGO, R. Baracoa. Agrotecnia 4:65-69. July/Aug.1950. 8 Ag825  
Includes discussion of the economy.

17158 BAQUE, Z. En Gascogne Gersoise—deux siècles d'histoire économique. Terre d'Oc 32:384-387. (Concl.) Sept.1950. 14 Ar5

17159 DAVIS, J. H. Economic recovery in Europe. (Excerpts.) Nulaid News 28(5):4-5. Oct.1950. 47.8 N917  
Includes agriculture.

17160 GIANNINI FOUNDATION OF AGRICULTURAL ECONOMICS. LIBRARY. Important sources of information for work in agricultural economics with special emphasis on California. Ed. 6. Berkeley, Calif., 1950. 90 p. 241.3 G34

17161 GILLESPIE, R. T. Impact of world affairs on agriculture. Wash. State Farm Bur. News 24(11):5,9. Nov.1950. 275.293 W27

17162 HAMILTON, W. E. Basic economic principles as Farm Bureau views them. Wash. State Farm Bur. News 24(8):4-8. Aug.1950. 275.293 W27

17163 KIEL. UNIVERSITÄT. INSTITUT FÜR WELT-WIRTSCHAFT. Die weltwirtschaft mitte 1950. Kiel, 1950. 91 p. 280 K542

17164 MORSE, T. D. How it looks in the year ahead. Cattleman 37(7):32,37-38,40,42. Dec.1950. 49 C29

17165 NORTON, L. J. An attitude toward foreign relations. Farm Policy Forum 3(12):5-7. Dec.1950. 281.8 F2274

Includes discussion of Marshall Plan aid for Europe.

17166 ROSA, M. DE. Results obtained in Avellino in application of Law 31. (In Italian.) Agr. Ital. 1:557-558. Nov.1,1950. 16 Ag822

Reconstruction after war damages.

17167 LA SITUATION ÉCONOMIQUE de l'Union Sud-Africaine. France. Inst. Natl. de la Statis. et des Études Econ. Études et Conjoncture, Econ. Mond. 5(5):60-92. Sept./Oct.1950. 280.9 F842

17168 SMITH, M. G. The "hot war" may cool off but farming must stay geared to a war economy! Ohio Farmer 206(8):3,37. Oct.21,1950. 6 Oh3

17169 TAYLOR, W. C. Where to with the Marshall Plan? (Condensed.) Farm Policy Forum 3(12):8. Dec.1950. 281.8 F2274

17170 YOHE, R. S. Postwar Germany rebuilds torn farms. Prog. Farmer, Tex. Ed. 65(11):10,46. Nov.1950. 6 T311

17171 ZAPPI RECORDATI, A. Les dommages de guerre subis par l'agriculture italienne et l'effort des agriculteurs pour rétablir l'efficience productive. Soc. Belge d'Études et d'Expansion. B. Bimest. 49:646-650. Aug./Oct.1950. 280.8 So17

#### AGRICULTURAL FINANCE

17172 FONTANILLE, H. Le projet de réforme des finances locales et son ajournement. Algérie Agr. et Vitic. 28(1133):1. Aug.26,1950. 24 AL37

17173 IBACH, D. B. Capital and credit in new farming systems. Agr. Econ. Res. 2:113-123. Oct.1950. 1 Ec7Agr

17174 MORGAN, A. E. The economic disadvantage of rural communities. Community Serv. News 8:149-150. Nov./Dec.1950. 281.28 C73

Conditions brought about by the money system.

17175 ROCHEFORT, M. La pénétration des capitaux bourgeois dans la campagne autonoise; ses conséquences sur l'habitat et la structure agraire. Études Rhodaniennes 25:249-266. 1950. 473 Et8  
Includes land tenure.

##### Credit

17176 ATASAGUN, Y. S. Obligations émises par la Banque Agricole en 1950. (In Turkish.) Türkiye Cumhuriyeti Ziraat Bankası. Uç Ayda Bir Çıkar 17:26-29. Jan./Mar.1950. 280.9 T842

17177 BERG, S. O., and DAHL, R. P. Short-term bank loans to farmers. Minn. Farm & Home Sci. [Minn. Sta.] 8:10-11. Oct.1950. 100 M668

17178 BERG, S. O. Some characteristics of bank loans to farmers. Com. West 100(21):14-15. Nov.25, 1950. 286.8 C733

17179 BIGAT, P. Le Plan Marshall et le rôle de la Banque Agricole relatif à la réalisation de ce Plan dans le domaine agricole. (In Turkish.) Türkiye Cumhuriyeti Ziraat Bankası. Uç Ayda Bir Çıkar 17:32-40. Jan./Mar.1950. 280.9 T842

17180 BURNS, J. A. Developing a new farm department. Burroughs Clearing House 35(3):32-34,77,79-80. Dec.1950. 284.8 B94

17181 CANADA. FARM LOAN BOARD. Report for the year ended March 31, 1950. Ottawa, 1950. 23 p. 284.29 C16

17182 CHILE. CAJA DE CRÉDITO HIPOTECARIO. Memoria N° 94 correspondiente al ejercicio anual de 1949. Santiago, 1950. 46 p. 284.9 C122

17183 CORMAN, B. REA loan agreement. Fort-nightly Telephone Engin. 11(12):24-26,30-32. Dec.1950. 335.8 F77

Telephone loan agreements.

17184 CROTEAU, J. T. The Caisses Populaires Desjardins of Quebec; a modern system of people's banks. Agr. Hist. 24:227-238. Ref. Oct.1950. 30.98 Ag8

17185 DEIBERT, A. W. The machine problem of the country banker. U. S. Investor 61:2339-2340,2343. Nov.4,1950. 284.8 Un32

17186 DEVORE, P. T. Co-op credit helps veterans homestead. News Farmer Coop. 17(8):15-16. Nov.1950. 166.2 N47

17187 DIESSLIN, H. G. Farm mortgage policy. Burroughs Clearing House 35(2):25-27,72,74. Nov.1950. 284.8 B94

17188 FARRINGTON, R. L. Credit system for co-ops sets new records. Grain Prod. News 3(6):16-17. Nov.1950. 286.81 G764

Also in News Farmer Coop. 17(8):8. Nov.1950. 166.2 N47

17189 FELTON, R. A. Learning from Colgan. Farmer's Mag. 47(11):11,49. Nov.1950. 7 C165  
Organization and accomplishments of the Adjala Credit Union Limited, Ontario.

17190 FLORA, C. M. Bank credit for farm equipment financing. South. Banker 94(7):25,71. Dec.1950. 284.8 So8

17191 FONDARD, L. Crédit agricole et avenir agricole. Bouches du Rhône Agr. 23(1035):19. Oct.2, 1950. 14 B662



17192 FORDHAM, H. Loans for long-term improvements [Great Britain]. Farmer & Stock-Breeder 64:2872-2873. Nov.14,1950. 10 F228

17193 GORIOU, H. Possibilités actuelles du crédit agricole. Agr. Charentais 5(19):1-2. Oct.15,1950. 14 Ag825

17194 DIE GRUNDSÄTZE der kreditgewährung bei den Raiffeisenkassen. Landwirt. Genossenschbl. f. Niederösterreich. 47(9):1-6. Sept.1,1950. 280.28 L23

17195 HEIM, Der landwirtschaftliche kredit—10 fragen. Bad. Landwirt. Wchnbl. 117:526-527. Aug.5, 1950. 18 B142

17196 HOLLAND, A. C. Checking accounts designed for farmers. Fed. Reserve Bank Boston. New Eng. Farm Finance News 5(11):4. Nov.1950. 284.28 N44

17197 İLOĞLU, A. S. Deux grands organisations internationales intéressant l'activité et le crédit agricole en Europe. (In Turkish.) Türkiye Cumhuriyeti Ziraat Bankası. Uç Ayda Bir Çıkar 17:41-48. Jan./Mar. 1950. 280.9 T842

17198 İZDEMİR, H. Des procédures juridiques à suivre dans le recouvrement des crédits agricoles arriérés. (In Turkish.) Türkiye Cumhuriyeti Ziraat Bankası. Uç Ayda Bir Çıkar 17:30-31. Jan./Mar.1950. 280.9 T842

17199 KRUSE, E. F. CCC—what it is—what it does—whom it benefits. Washington, U. S. Prod. & Mktg. Admin. 1950. 5 p. 1.956 A2K94

Summary of remarks before the Connecticut State PMA meeting, Farmington, Nov. 28, 1950.

17200 KUTYN, E. The National Bank of Argentina as a source of credit for Argentine farmers. Land Econ. 26:390-393. Nov.1950. 282.8 T82

17201 LEBEAU, Le crédit agricole mutuel en Algérie. (Sum.) Soc. des Agr. d'Algérie. B. 93:216-221. June 1950. 24 S01

17202 LUPORI, N. More on land credit: credit for the land. (In Italian.) Gior. di Agr. 60:347. Nov.5,1950. 16 It1G Italy.

17203 LUTTRELL, C. B. Bank credit and Mid-South agriculture. Fed. Reserve Bank St. Louis. Mon. Rev. 32:157-163. Nov.1950. 284.8 F31Sa

17204 MANGO, A. The Bank for the South. (In Italian.) Terra e Sole 98:325-326. Oct.1950. 16 T273

17205 MYERS, W. I. What's ahead for agriculture and farm credit? (Condensed.) Nulaid News 28(6):9-10, 28. Nov.1950. 47.8 N917

17206 NEWELL, W. E. Country banks and trust service. Tenn. Banker 38(11):30,32-34. Nov.1950. 284.8 T25

17207 NOSYREV, S. S., MISEŪK, K. A., and SIDEL'NIKOV, M. V. Kreditovanie sel'khozbankom kolkhozov i sel'skogo naseleniia [Agricultural bank credit to collective farms and rural population]. Moskva, Gosfinizdat, 1950. 124 p. 284.2 N84

17208 OLIVEIRA, M. M. DE. Finances in general. (In Portuguese.) Soc. Rur. Brasil. Rev. 30(357):20-29. Aug.1950. 9.2 B733

Agricultural credit.

17209 PETIT-LAURENT, V. S. Ce qu'il faut savoir des prestations familiales à la campagne. Foyer Rur. [Paris] 13(161,sup.), 8 p. Nov.26,1950. 14 F83

France.

17210 SAJA, F. Bureaucracy and agricultural credit. (In Italian.) Rinascita Agr. 5(18):1. July 15,1950. 281.8 R47

17211 STUCKY, L. Rural banks losing auction business by not advertising facts. Com. West 100(22):10. Dec.2,1950. 286.8 C733

17212 U. S. FARMERS HOME ADMIN. Helping small farmers in Kansas, by W. Dodge. Washington, 1950. 8 p. 1.949 H36

Agricultural credit.

17213 WALLER, R. Herd health a basis for financial credit. Newest. States Brucellosis Conf. Proc. 1950:7-8. 1.972 A2B833

17214 WESTRA, T. L. Here's the way to improve your farmer-customer relations. Com. West 100(21):11-12. Nov.25,1950. 286.8 C733

Banking.

17215 WURZ, K. Agrarkredit und Marshallplan; die ERP-kredite für die Landwirtschaft. Landwirtschaft 1950: 251-252. Sept.1950. 19 L235

Austria.

## Income

17216 COLLISON, C. F. More cash crop billions line pockets of Wealth Belt farmers. Com. West 100(22): 9. Dec.2,1950. 286.8 C733

17217 HATHAWAY, D. E. How will farmers fare? Mich. State Col. Agr. Ext. Mich. Farm Econ. 93:1-2. Sept.1950. 275.29 M58A

Michigan farm income.

17218 HOMAN, J. L. Agriculture and industry. (In Dutch.) Alg. Nederland. Zuivelbond. Off. Orgaan 42:377-378. Aug.16,1950. 44.9 AL3

Income.

17219 ITALY. ISTITUTO CENTRALE DI STATISTICA. Studi sul reddito nazionale [Studies on national income]. Italy. Ist. Cent. di Statist. Ann. di Statist. (ser.8)3,447 p. 1950. 261 Ag8A

Includes production and value of production of agricultural and forest products.

17220 LEAR, J. Off-farm income a big item to many families. Agr. Situation 34(11):10. Nov.1950. 1 Ec7Ag

17221 RAWLINGS, B. R. Trends in farm income. Fed. Reserve Bank Atlanta. Mon. Rev. 35:73-78. Aug.31, 1950. 284.8 F31A

## Inflation

17222 BROWN, M. Here comes inflation! Farm J. 74(12):31,120,122. Dec.1950. 6 F2212

## Insurance

17223 ADAIR, S. T. Farm social security begins in January. Va. Farm Bur. News 10(10):6. Nov.1950. 275.293 Virginia

17224 ALTMAYER, A. J. Social security for farm workers. N. C. Dept. Agr. Agr. Rev. 25(21):2-3. Nov.1, 1950. 2 N81Ag

17225 ARCHAMBAULT, J. L. E. Les lois relatives aux assurances. Foyer Rur. [Montreal] 10(2):6. Nov. 1950. 7 F83

Canada.

17226 BARBER, E. L. Meeting weather risks in western Kansas. Agr. Situation 34(11):7-9. Nov.1950. 1 Ec7Ag

Crop insurance.

17227 ELLINGTON, F. B. Social security for farmers. Grain Prod. News 3(6):13. Nov.1950. 286.81 G764

17228 EMBREE, W. D., JR. Farmers and the 1950 Social Security Act. Natl. Wool Grower 40(11):29-30. Nov.1950. 45.8 N21N

17229 GALUSHA, H. D., JR. The Social Security Act, as applicable to ranch employers. Mont. Stockgrower 22 (10):4-6. Oct.15,1950. 49 M76

17230 HABY, R. J. Social security comes to the farm. Poultry Tribune 56(11):34-36. Dec.1950. 47.8 P8642

17231 HALL, H. F. The farmer's responsibility under the Social Security Act. Nation's Agr. 25(11):4. Dec.1950. 280.82 B89

17232 HILL, E. B. Social security for farm workers. Hoard's Dairyman 95:858,878. Dec.10,1950. 44.8 H65

17233 HYRE, F. M. Inspections cut insurance costs. News Farmer Coop. 17(9):8-9,21. Dec.1950. 166.2 N47

Program of inspection for fire hazards, Iowa.

17234 LEWIS, J. C. Social security skips farmers. Calif. Farm Rptr. 11(11):4. Nov.1950. 281.8 C12

17235 NATIONAL FARM RADIO FORUM. A pension for everyone. Farm Forum Guide 8(5):1-3. Dec.4,1950. 281.8 F2272

Canada.

17236 NATIONAL FARM RADIO FORUM. Security for farm labor. Farm Forum Guide 8(6):1-3. Dec.11, 1950. 281.8 F2272

Social security for Canada.

17237 NIEDERFRANK, E. J. Social security reaches farm people. Better Farming Methods 22(12):12,34. Dec. 1950. 58.8 B46

17238 REINIG, M. The new Social Security Law; here's what you need to know and do when fur farm workers come under the provisions of the Social Security laws for the first time January 1, 1951. Amer. Fur Breeder 23(6):13-14,52-53. Dec.1950. 410 Am33



- 17239 ROWE, J. Z. Social security near for farm workers. N. Mex. Agr. Col. Ext. News 30(10):3. Oct. 1950. 275.29 N463Ex
- 17240 RUSH, J. D. Farm mutual insurance in Virginia. Va. U. News Let. 27(2):1. Oct. 15, 1950. 280.9 V815
- 17241 SEZGIN, A. Assurance de tabacs aux Etats-Unis d'Amérique en 1949. (In Turkish.) Türkiye Cumhuriyeti Ziraat Bankası. Uç Ayda Bir Çıkar 17:49-53. Jan./Mar. 1950. 280.9 T842
- 17242 SMITH, C. R. Farmers' mutual fire insurance companies in South Carolina. S. C. Agr. Expt. Sta. B. 385,32 p. June 1950. 100 So8
- 17243 ÞÖRARINSSON, Þ. Sheep insurance. (In Icelandic.) Freyr 45:211-212. Aug. 1950. 11 F89
- 17244 U. S. FEDERAL CROP INSURANCE CORPORATION. Loss adjustment manual for wheat and flax. Washington, 1950. 18 p. 1.952 L899
- 17245 U. S. FEDERAL CROP INSURANCE CORPORATION. Multiple sales handbook; Federal crop insurance program. Washington, 1950. 20 p. 1.952 Sa35
- 17246 U. S. FEDERAL CROP INSURANCE CORPORATION. Wheat sales handbook; commodity coverage. Washington, 1950. 20 p. 1.952 W563
- 17247 U. S. FEDERAL CROP INSURANCE CORPORATION. Wheat sales handbook; monetary coverage. Washington, 1950. 19 p. 1.952 W564
- 17248 VALENTINI, M. The question of unified contributions will finally have a governmental solution. (In Italian.) Terra [Firenze] 61(40):1. Oct. 1, 1950. 16 T274
- Taxation
- 17249 BOURGET, F. La détaxe du carburant agricole. Sol 1950:148-153. 14 So4
- 17250 DESCIMON, A. Les impôts des agriculteurs. II. Monit. Agr. 3(134):5. Nov. 5, 1950. 14 M744
- 17251 FELICE, P. DE. Qui doit la taxe vicinale? Monit. Agr. 3(132):5. Oct. 22, 1950. 14 M744
- 17252 HALL, I. F. Changes in income tax laws. Hoard's Dairyman 95:872. Dec. 10, 1950. 44.8 H65
- 17253 HALL, I. F. Depreciation and how to figure it. Hoard's Dairyman 95:826-827. Nov. 25, 1950. 44.8 H65
- 17254 HALL, I. F. Farmers' income tax for 1950. Hoard's Dairyman 95:778-779. Nov. 10, 1950. 44.8 H65
- 17255 HALL, I. F. Special income tax problems. Hoard's Dairyman 95:912. Dec. 25, 1950. 44.8 H65
- 17256 HART, S. H., and EMBREE, W. D., JR. Tax events—new decisions made on capital gains. West. Live-stock J. 28(59):79, 81, 83-84. Oct. 15, 1950. 6 F2278
- Taxation legislation and its effect on the livestock industry.
- 17257 HART, V. B., and KENDRICK, M. S. 1950 income-tax returns suggestions for farmers. N. Y. Agr. Col. Cornell Ext. B. 809,32 p. Nov. 1950. 275.29 N48E
- 17258 HULBERT, L. S. Patronage refunds and farmers' income taxes. News Farmer Coop. 17(9):20-21. Dec. 1950. 166.2 N47
- Patronage dividends to members of cooperative organizations.
- 17259 LAGAE, A. How is the horticulturist taxed at present? (In Flemish.) Tuinbouwberichten 14:132-133, 140. Sept. 15, 1950. 80 T817
- 17260 LUCIANETTI, A. Family and supplementary tax. (In Italian.) Rinascente Agr. 5(19):1. Aug. 1, 1950. 281.8 R47
- Italy.
- 17261 MEREDITH, W. R. Records are important. Sheep & Goat Raiser 31(2):60-61. Nov. 1950. 45.8 Sh3
- For income tax purposes.
- 17262 NORTH CAROLINA UNIVERSITY. STATE COLLEGE OF AGRICULTURE AND ENGINEERING. EXTENSION SERV. Farmer's 1950 income tax. N. C. Agr. Col. Ext. C. 358,24 p. Oct. 1950. 275.29 N811
- 17263 QUEENSLAND. COMMISSIONER OF LAND TAX. Land tax; thirty-fifth annual report on the operation of the acts during the year 1949-50. Brisbane, 1950. 9 p. 271.3 T19
- 17264 ROSENAU, H. Begünstigung des nichtentnommenen gewinns auch für buchführende landwirte. Hannoversche Land- u. Forstwirt. Ztg. 103:850,854. Sept. 23, 1950. 18 H194
- 17265 ROSENAU, H. Bewertungsfreiheit für ersatzbeschaffung beweglicher wirtschaftsgüter. Hannoversche Land- u. Forstwirt. Ztg. 103:631. (Concl.) July 8, 1950. 18 H194
- Taxation.
- 17266 SCHIETHART, L. J. Tax revision, 1950. (In Dutch.) Nederlanders. Heidemaatsch. Tijdschr. 61:296-299. Oct. 1950. 12 N282
- 17267 SCHNEIDER, G. Landarbeiterwohnungsbau steuerbegünstigt. Agrarpolit. Presse-Korresp. 3:242-243. Oct. 25, 1950. 281.8 Ag892
- 17268 SIJTSMA, P. An interesting taxation question. I. (In Dutch.) Friesch Landbbl. 47:500. Aug. 18, 1950. 12 F91
- 17269 SIJTSMA, P. Tax revision 1950 and agriculture. III-VI, VIII-XI. (In Dutch.) Boer en Tuinder 4(193):13; (194):13; (195):8; (196):13; (198):7; (199):12; (200):13; (202):8. Sept. 30-Oct. 21, Nov. 4-18, Dec. 2, 1950. 12 B632
- Netherlands.
- Also in Friesch Landbbl. 47:594, 614, 634, 697, 710, 738, 759. Sept. 29-Oct. 13, Nov. 3-10, 24-Dec. 1, 1950. 12 F91
- 17270 STRUNZ, H. Ist das steuerbüchel einführbar? Landwirtschaft 1950:254-256. Sept. 1950. 19 L235
- Austria.
- 17271 STRUNZ, H. Die neuen steuerbescheidformulare. Gartenbauwirtschaft [Wien] 17:200-201. Sept. 10, 1950. 80 G1936
- Austria.
- 17272 STUCKY, H. R. Land reclassification means fair taxation. Mont. Farmer-Stockman 37(22):7,42. July 15, 1950. 6 M764
- 17273 TAYOR, T. R. Income tax changes recommended to give ranchers even break. West. Live Stock 36(3):15,127. Oct. 1950. 49 W523
- 17274 TAYLOR, T. R. This is how stockmen are affected by the 1950 revenue act. West. Live Stock 36(4):19,99. Nov. 1950. 49 W523
- 17275 U. S. BUR. OF AGRICULTURAL ECONOMICS. Taxes levied on farm real estate in 1949. Washington, 1950. 7 p. 1.9 Ec7Farm
- AGRICULTURAL LABOR AND WAGES
- 17276 ADAIR, W. A wages board surprise. Farming News & No. Brit. Agr. 102(44):11. Nov. 3, 1950. 10 N82
- Scottish Agricultural Wages Board refused to endorse a further rise in farm wages.
- 17277 ALBERTO, M. Labor market in the Province of Trento. (In Italian.) Cam. di Com. Indus. e Agr. del Trentino. B. Mens. 1949:1-3. Aug. 1949. 287 T72
- Includes agriculture.
- 17278 ALEKSANDROV, G., and ALEKSANDROV, L. Time sheet in field work. (In Russian.) Mashinno-Traktornaia Sta. 10(7):10-13. July 1950. 58.8 M11
- At Kashirskafä and 1-afä Mikhnevskafä MTS.
- 17279 AMERICAN FEDERATION OF LABOR. Report of the proceedings of the sixty-ninth convention held at Houston, Texas, September 18 to 23, inclusive, 1950. Washington? 1950. 534 p. 283.9 Am3
- Contains brief, scattered references to farm labor, for which the index should be consulted.
- 17280 BAKER, V. Labour in silage harvesting. Scot. Agr. 30:89-94. Autumn 1950. 10 Sco82So
- 17281 BAREISS, G. Auch die rubenernte kann man sich erleichtern! Württemb. Wchnbl. f. Landwirt. 117:924. Oct. 7, 1950. 18 W96
- 17282 BECKERICH, A. Le salaire minimum garanti en agriculture. Agr. Prat. 114:497-498. Nov. 1950. 14 J82
- France.
- 17283 BERG, G. L. Enlarging pens may save a thousand steps a day. Everybodys Poultry Mag. 35(11):10-11. Dec. 1950. 47.8 F213P
- 17284 BIJLEVELD, H. C. A great strike in the perennial planting and tobacco growing industries in Java. (In Dutch.) Econ.-Statist. Ber. 35:835-838. Oct. 18, 1950. 280.8 Ec722
- English summary, p. 831.



- 17285 BINSWANGER, E. Der normalarbeitsvertrag für das käsepersonal im vergleich zu den normalarbeitsverträgen für landwirtschaftliche dienstboten. Agrarpolit. Rev. 7:124-134. Oct./Nov.1950. 281.8 Ag824 Switzerland.
- 17286 BIRD, J. Why are farmers joining labor unions? Country Gent. 120(11):21,72-75. Nov.1950. 6 C833
- 17287 CERNOWSKY, W. Strafausschub und strafunterbrechung. Landwirtschaft 1950:257-258. Sept.1950. 19 L235  
To obtain agricultural labor in Austria.
- 17288 CRAY, R. E., and CLAYTON, P. C. Analysis of time and mileage involved in picking up eggs by central assembling plants. (Abs.) Poultry Sci. 29:754-755. Sept.1950. 47.8 Am33P
- 17289 DAVITASHVILI, M. Geroi sofiialisticheskogo truda Vaso Dzhabua [Hero of Socialist labor, Vaso, Dzhabua]. Tbilisi, Zaria Vostoka, 1949. 47 p. 283 D282
- 17290 DOLOTOV, I. I. A. Payment of labor of state farm livestock raisers. (In Russian.) Sofiialist. Zhivotnovod. 12(6):65-70. June 1950. 49 So71
- 17291 DOROSHENKO, I. Traktornye brigady vysokogo urozhaya [Tractor brigades of high yields]. Kursk, Kurskaya Pravda, 1950. 21 p. 283 D73
- 17292 EHMIG, O. Wissenswertes über die abfertilgung. Landarb.-Arch. 5:359-363. Aug./Sept.1950. 283.8 L23  
Austrian labor.
- 17293 FEDER, E. Hot milk in California. Farm Policy Forum 3(12):9-13. Dec.1950. 281.8 F2274  
Strikes and unions in the dairy industry.
- 17294 FELICIANI, A. Chantiers of mountain reclamation and labor in Valtellina. (In Italian.) Rass. Econ. della Prov. di Sondrio 3(9):9-11. Sept.1950. 287 So5
- 17295 FENGER, E. Agricultural working methods. (In Danish.) Dansk Landbr. 69:478-479. Sept.21,1950. 280.28 V91
- 17296 FONTANILLE, H. L'agriculture métropolitaine et la main-d'oeuvre nord-africaine. Algérie Agr. et Vitic. 28(1142):1. Nov.18,1950. 24 AL37  
Use of North African labor in French agriculture.
- 17297 GALEEV, SH. The best brigade of Arskaya MTS. (In Russian.) Mashinno-Traktornaya Sta. 10(7):16-18. July 1950. 58.8 M11
- 17298 GEMEREN, P. VAN. Fruit harvesting aids. (In Dutch.) Fruitteelt 40:619-622. Aug.17,1950. 86 N28  
Work management and equipment.
- 17299 GENNARI, G. Toward new labor relations. IV-VI. (In Italian.) Agr. Ital. 1:422-424,507-508,543-546. Sept.1-Nov.1,1950. 16 Ag822  
English summary.
- 17300 GORBANEV, V. S. Livestock raisers of ODVKA Kolkhoz [in Stalingrad Region]. (In Russian.) Sofiialist. Zhivotnovod. 12(6):63-64. June 1950. 49 So71
- 17301 GRADOV, A. Cooperation of two brigades: result of coordinating the work of the tractor and field brigades on Kalinin Collective Farm in Izobil'enskii District, Stavropol Territory. (In Russian.) Kolkhoz. Proizvodstvo 10(7):9-12. July 1950. 281.8 K83
- 17302 GUSEV, K., and ANAN'EV, I. Results of achievements according to time sheet. (In Russian.) Mashinno-Traktornaya Sta. 10(7):13-15. July 1950. 58.8 M11  
Labor productivity at Talovskaya MTS.
- 17303 HATHORN, R. E. Labor and power requirements for harvesting rice. La. Rur. Econ. 12(4):4-5. Nov.1950. 281.8 L93
- 17304 HAUKE, G. Das problem des "jungen mannes" auf den bauernhöfen. Hannoversche Land- u. Forstwirt. Ztg. 103:726. Aug.19,1950. 18 H194
- 17305 HECHT, R. W. Labor productivity in agriculture and industry. Agr. Situation 34(11):2-3. Nov.1950. 1 Ec7Ag
- 17306 HEINEY, R. B. The 1951 labor problem. Canning Trade 73(21):11. Dec.11,1950. 286.83 T67
- 17307 HENDERSON, G., and PATERSON, R. What's a good day's work for a herdsman? Dairy Farmer [London] 23(10):20-21. Oct.1950. 44.8 D1414
- 17308 HOOGLAND, E. J. A. Labor productivity, mechanization, and small farms. (In Dutch.) Nieuwe Veldbode 17:42-43. Oct.19,1950. 12 V542N
- 17309 INMAN, W. You can save on labor; little extra planning often will get a job done easier, faster and better. Wallaces' Farmer Iowa & Homestead 75(23):8-9. Dec.2,1950. 6 W15
- 17310 JENSEN, S. P. The labor consumption in Danish agriculture 1946-49. (In Danish.) Handelsbladet 51:1420-1422. Nov.30,1950. 280.28 An2
- 17311 JEWELL, B. M. Is your producer a dollar burner? South. Dairy Prod. J. 48(6):22,106-109. Dec.1950. 44.8 So83  
Efficiency on the dairy farm.
- 17312 KAAS, J. Urlaubsbestimmungen für gartnergehilfen. Gartenbauwirtschaft [Wien] 17:199-200. Sept.10,1950. 80 G1936  
Austria.
- 17313 KADAR, G. Problems of efficiency in agriculture. (In Hebrew.) Inst. Res. Prod. Efficiency. B. 2:29-33. July 1950. 280.9 T23
- 17314 KALINOVSKIY, I. Round-the-clock threshing. (In Russian.) Kolkhoz. Proizvodstvo 10(7):15-16. July 1950. 281.8 K83  
Labor productive capacity.
- 17315 KLEIN, G. T. So we'll have less work and more hens. East. States Coop. 26(11):8-10. Nov.1950. 280.28 Ea7  
Efficiency on poultry farms.
- 17316 KOROBKO, A. Permanent collective farm field camps. (In Russian.) Sel'sk. Stroitel' 5(4):15. July/Aug.1950. 296.28 Se4
- 17317 KRÜGER, H. Landarbeiter-Industriearbeiter lohnangleichung—aber wie? Hannoversche Land- u. Forstwirt. Ztg. 103:747,766. Aug.26-Sept.2,1950. 18 H194
- 17318 KUBISCH, H. Landestreffen der melker. Hannoversche Land- u. Forstwirt. Ztg. 103:843. Sept.23, 1950. 18 H194
- 17319 KULEZNEV, S. I. A. Traktornaya brigada v bor'be za vysokuyu kul'turu zemledeliya [Tractor brigade in the effort for a higher level of agriculture]. Saratov, Saratovskoe Obl. Gos. Izd-vo, 1950. 45 p. 283 K953
- 17320 KUTUZOV, F., SUZDAL'TSEV, I., and KHRAMUSHIN, L. Mekhanizatory sel'skogo khoziaistva [Mechanizers of agriculture]. Gor'ki, Gor'kovskoe Obl. Gos. Izd-vo, 1950. 71 p. 283 K963  
Labor in machine tractor stations.
- 17321 LAPAEV, P. S. Work management of machine harvesting of potatoes. (In Russian.) Sad i Ogorod 1950 (8):27-31. Aug.1950. 80 Sa13
- 17322 LEMASSON, P. Les débouchés possibles. Fiches Rur. 62:17-26. Oct.1950. 281.8 F44  
Rural occupations in France.
- 17323 LEVIT, A. Geroi Sofiialisticheskogo Truda Sof'ia Maridashvili [Hero of Socialist labor—Sof'ia Maridashvili]. Tbilisi, Zaria Vostoka, 1949. 30 p. 283 L572  
Sugar beet labor.
- 17324 MANDYKA, M. How we are achieving a high productivity of the threshing assembly. (In Russian.) Kolkhoz. Proizvodstvo 10(7):14-15. July 1950. 281.8 K83  
Lenin Collective Farm in Dnepropetrovsk Region.
- 17325 MERZLOV, A. I. Economic aspects of flax production as exemplified by the collective farms in Gorkii Region. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriyazeva. Dok. 11:40-44. 1949. 20 M857  
Chiefly on assignment of workdays and payment of labor.
- 17326 MOORAHREND. Entwurf eines betriebsverfassungsgesetzes fertiggestellt. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1345. Sept.28,1950. 18 L2346  
Labor relations.
- 17327 MOORAHREND. Um die erhaltung der heuerlingsverhältnisse. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1378. Oct.5,1950. 18 L2346
- 17328 MOORE, F. W. Worthing horticultural workers. Land Worker 31(377):4. Oct.1950. 283.8 L22
- 17329 NERUSIN, V. G. Za vysokuyu kul'turu zemledeliya [Towards a high level of agriculture]. Penza, Penzenskoe Obl. Izd-vo, 1950. 23 p. 283 N35  
Work management.
- 17330 POLIAKOV, L. How to increase labor productivity in threshing. (In Russian.) Tekhsovety MTS 11 (29/30):1-7. 1950. 58.8 T233



- 17331 SCHUMACHER. Die heuerlingsabgrenzung im neuen manteltarif für landarbeiter. Landwirt. Wehnl. f. Westfalen u. Lippe 107 A:1304. Sept.21,1950. 18 L2346
- 17332 SELLSCHOPP, A. Lob der arbeit. Deut. Landwirt. Presse 73(21):1. Oct.7,1950. 18 D482
- 17333 SIDORENKO, K. Brigadier-innovator. (In Russian.) Mashinno-Traktornaja Sta. 10(7):5-8. July 1950. 58.8 M11  
Labor productivity at Lebedinskaja MTS.
- 17334 SINGH, D. B. Agricultural labour in India. Agr. Situation India 5:545-552. Nov.1950. 281.9 In23
- 17335 STODART, J. A. What are they worth? Farmers Wk. [London] 33(19):55. Nov.10,1950. 10 F2226  
Farm wages in Great Britain.
- 17336 STORNES, A. An attempt to elucidate the labor problem in agriculture. VII. (In Norwegian.) Landbrukstidende 56:723-725. Sept.13,1950. 11 L236
- 17337 SUTTNER. Tarifbewegung in der milchwirtschaft. Süddeut. Mol.-Ztg. 71:1132. Aug.11,1950. 44.8 Su2
- 17338 SUTTNER. Tariffähigkeit einer arbeitnehmervereinigung. Süddeut. Mol.-Ztg. 71:1332-1333. Sept.22, 1950. 44.8 Su2
- 17339 TRITSCHER, S. Der freie tag der melker und viehhfeger. Mitt. f. die Arb. u. Angestellten in der Land- u. Forstwirtschaft. 1950(10):3. Oct.25,1950. 283 M69  
Austria.
- 17340 TSKOTO, I. A. A permanent production brigade—principal form of work management on collective farms. (In Russian.) Sad i Ogorod 1950(8):7-11. Aug.1950. 80 Sa13
- 17341 UHLIRS, J. Der lohnkampf der landarbeiter in Oberösterreich, Salzburg und Steiermark. Landarb.-Arch. 5:353-359. Aug./Sept.1950. 283.8 L23
- 17342 VOLOSHIN, N., and BALAKIN, M. Extension of leading practices. (In Russian.) Mashinno-Traktornaja Sta. 10(7):8-10. July 1950. 58.8 M11  
Labor productivity at Kuibyshevskaja MTS.
- 17343 WALTON, J. En Angleterre, les ouvriers de l'agriculture sont unis. Foyer Rur. [Montreal] 10(2):8. Nov.1950. 7 F83
- 17344 WEEKS, S. B., and FELLOWS, I. F. Custom work—prices and rates. Hoard's Dairyman 95:919. Dec.25,1950. 44.8 H65  
Agricultural labor.
- 17345 ZHUKOVSKIĬ, N. Reserves of Zaobskaja MTS. (In Russian.) Mashinno-Traktornaja Sta. 10(7):23. July 1950. 58.8 M11  
Possibilities for increasing labor productivity.
- AGRICULTURE - SITUATION, POLICIES,  
AND PROGRAMS**
- 17346 ANNUARIO dell'agricoltura italiana, volume III 1949 [Annual of Italian agriculture, volume III: 1949]. Rome, 1950. 561 p. 281.8 An7  
Issued by Istituto Nazionale di Economia Agraria.  
English summary.  
An agricultural survey including forestry, marketing, taxation, reclamation, credit, labor, cooperation, and trade.
- 17347 ABBISS, H. W. The agriculture of Cornwall and the Isles of Scilly. Brit. Agr. B. 3:63-69. Summer 1950. 10 B776
- 17348 ALBL, A. Some impressions of American agriculture. Nation's Agr. 25(11):8,17-18. Dec.1950. 280.82 B89
- 17349 ANDREWS, S. The international situation and its impact on agriculture. Washington, U. S. Off. Foreign Agr. Relat., 1950. 6 p. 1.943 An2  
Summary of remarks before convention of the National Milk Producers Federation, Minneapolis, Nov. 14, 1950.
- 17350 ANGELL, J. M. My impressions. Pig Breeders' Gaz. 63:17,19,21,23. Oct.1950. 46.8 N21  
Observations on Canadian agriculture.
- 17351 ATTOLINI, J. Economía de la Cuenca del Papaloapan: agricultura. México, Instituto de Investigaciones Económicas, 1949. 269 p. 281.14 At8
- 17352 BANDINI, M. Economic organization of agricultural production. (In Italian.) Agr. Ital. 1:537-539. Nov.1,1950. 16 Ag822  
English summary.
- 17353 BASES de un programa de fomento para Colombia. Banco de la Rep. Rev. 23:925-937. Sept.20,1950. 284.9 C713  
Report of a mission directed by L. Currie and sponsored by the International Bank for Construction and Development and the Colombian Government.  
Includes agriculture.
- 17354 BELLET, J. Vigne, élevage, blé, betteraves, fruits, cultures maraichères pommes de terre, etc.; la variété caractérise notre production. Libération Paysanne 7(288):3-5. Nov.16,1950. 14 L61  
France.
- 17355 BERACHA, S. Plan for French agriculture. West. Farm Leader 15:323. (Concl.) Nov.3,1950. 280.28 W52
- 17356 BERENTZWILLER, C. A. La socialisation du secteur agricole en Tchécoslovaquie par la mécanisation et le collectivisme de la production. Soc. Belge d'Études et d'Expansion. B. Bimest. 49:701-706. Aug./Oct.1950. 280.8 So17
- 17357 BOYER BANSE, L. L'agriculture américaine et la notre. Soc. des Agr. d'Algérie. B. 93:225-234. June 1950. 24 So1
- 17358 BRAZIL. SERV. DE INFORMAÇÃO AGRÍCOLA. BIBLIOTECA. Esboço de uma lista de cabeçalhos de assunto para agricultura e ciências afins [Draft of a list of subject headings for agriculture and allied sciences]. Rio de Janeiro, 1950. 36 p. 243.2 B73
- 17359 BROMFIELD, L. The world can feed itself. Com. Fert. 81(5):26-27,51-53. Nov.1950. 57.8 C73
- 17360 BROUSSE, M. La situation de l'agriculture. Unité Paysanne 5(257):4. Oct.28,1950. 14 Un3  
France.
- 17361 BROWN, C. My agricultural tour of America. Land Worker 31(377):5. Oct.1950. 283.8 L22
- 17362 BROWN, D. A. New sources of agricultural literature. Spec. Libr. 41:320-323. Nov.1950. 243.8 Sp3
- 17363 BUTZ, E. L. Why our agricultural policy is in a mess; a four-point review of the farm problem and what to do about it. Nowest. Banker 55(760):20-21,32, 34-35. Nov.1950. 284.8 N81
- 17364 CAMPBELL, K. The dollar shortage and Australian agriculture. Agr. Gaz. N. S. Wales 61:449-453. Sept.1,1950. 23 N472
- 17365 CANADA. BUR. OF STATISTICS. Canada 1950. Ottawa, 1950. 288 p. 253 St2C  
Includes agriculture and forestry.
- 17366 CANDIOLI, P. I tecnici e l'agricoltura [The technicians and agriculture]. Verona, Federazione Provinciale della Tecnica Agricola, 1949. 12 p. 33.19 C162
- 17367 CELLA, S. Projects of public utility and reclamation in Piacenza. 1-2. (In Italian.) Piacenza Agr. 6(10):1;(11):3-4. May 25-June 15, 1950. 281.8 P57  
Includes agricultural conditions.
- 17368 CHAPARRO GONZALEZ, A. Democracia y fomento agrícola. Rev. Agr. y Ganad. 12(127):23-24. Aug.1950. 9.4 R327  
Colombia.
- 17369 CHAPMAN, P. W. The South looks ahead—1950-60. Tex. J. Sci. 2:310-320. Sept.30,1950. 470 T31  
Includes agriculture.
- 17370 CHELINI, R. New, very modern instruments of technical aid in the country. (In Italian.) Agr. Ital. 1: 540-542. Nov.1,1950. 16 Ag822  
Includes Government aid to agriculture.
- 17371 CHOQUETTE, C., and COSSETTE, M. Récolte 1950. B. des Agr. 46(10):12-13,56-57. Oct.1950. 7 B872  
Quebec.
- 17372 CHRISTENSEN, R. P. Farm production trends changing. N. C. Dept. Agr. Agr. Rev. 25(23):2. Dec.1, 1950. 2 N81Ag  
Similar title in Agr. Situation 34(11):4-6. Nov.1950. 1 Ec7Ag
- 17373 CLAY, G. F. Peasant agriculture. Trop. Agr. [Trinidad] 27:74-85. Apr./June 1950. 26 T754
- 17374 CORONAT, F. La situation économique et sociale de l'A. E. F. Agence France - Presse. Inform. et Doc. 315:12-15. (To be cont.) Oct.28,1950. 280.9 Ag3  
Includes agriculture.
- 17375 COUNTRY GENTLEMAN. Good farming for good living. Philadelphia, Curtis, 1950. 41 p. 281.2 C835



- 17376 DAB-KOCIOL, J. La production agricole dans le plan de six ans polonais. (In Russian.) *Interagra* 4: 233-239. 1950. 28 In825  
Summary in French, p. 239-240.
- 17377 DELTA COUNCIL. Annual report, 1949-50. Stoneville, 1950. 39 p. 280.9 D38R
- 17378 DELVAUX, G. Quelques aspects de l'agriculture écossaise. *Ann. de Gembloux* 56:201-214. Fourth Q. 1950. 13 G28
- 17379 DESFARGES, P. Les questions agricoles et forestières étudiées au Conseil de la République. *Bois et Scieries* 56:811-813,815. Sept.7, 1950. 99.81 B632 France.
- 17380 DICKENMANN, P. Staatliche massnahmen zur förderung der thurgauischen landwirtschaft. Schweiz. Zentbl. f. Milchwirt. 39:227. Oct.13, 1950. 44.8 Sch93
- 17381 DICKENMANN, P. Die thurgauische landwirtschaft im wandel der zeit. Schweiz. Zentbl. f. Milchwirt. 39:225-227. Oct.13, 1950. 44.8 Sch93
- 17382 DIETZE, C. VON. Methods and objectives of scientific agrarian policy. *Land Econ.* 26:354-367. Ref. Nov. 1950. 282.8 J82
- 17383 DUMONT, R. Les difficultés de la modernisation de l'agriculture africaine autochtone. *Cahiers des Ingén. Agron.* 6:14-20. Second Q. 1950. 14 C112 Improvement of native agriculture.
- 17384 FACCINI, G. C. Agriculture in the South Tyrol region. (In Italian.) *Agr. Ital.* 1:547-550. Nov.1, 1950. 16 Ag822  
English summary.
- 17385 FALCONER, J. I. Mobilization—economic implication. *Dairymen's Price Rptr.* 32(11):13,16. Nov. 1950. 280.28 D14
- 17386 THE FARM outlook for 1951. *Fed. Reserve Bank Chicago. Business Cond.* 1950:1-9. Nov. 1950. 284.8 F31Ch
- 17387 FERGUSON, G. V. India's future lies upon its farms. *Family Herald & Wk. Star.* 81(45):4. Nov.9, 1950. 7 F21
- 17388 FEVRET, M. Un village du Liban el Mtaïne (note de géographie humaine). *Études Rhodaniennes* 25: 287-287. 1950. 473 E18  
Includes agriculture.
- 17389 FIVE years of socialist government. III. Food and agriculture. London, 1950. 35 p. (Notes Cur. Politics. 1950, 15) 281.171 C76F  
Food and agricultural policy.
- 17390 FOGATO, O. Suppose there were a mistake? (In Italian.) *Rinascita Agr.* 5(19):1. Aug.1, 1950. 281.8 R47  
Agricultural policy in Italy.
- 17391 FRANCE. DIRECTION DE LA DOCUMENTATION. L'Alaska. France. Dir. de la Doc. Notes et Études Doc. 1389,48 p. Oct.17, 1950. 280.9 F843  
Includes agriculture.
- 17392 FRANCE. DIRECTION DE LA DOCUMENTATION. Les Philippines (aperçu économique). France. Dir. de la Doc. Notes et Études Doc. 1375,15 p. Sept.1, 1950. 280.9 F843  
Contains a chapter on agriculture.
- 17393 GLANTSCHNIG, J. Die landwirtschaft im bezirk Völkermarkt. *Kärntner Bauer* 100:355-356. Oct.10, 1950. 19 K14
- 17394 GOSS, A. S. The farm problem can be solved. *Tax Outlook* 5(4):2-6. Apr. 1950. 281.12 G69
- 17395 GROOTEN, R. Problèmes d'actualité pour l'agriculture de l'Europe occidentale. *Rev. de l'Agr.* 3:799-815. Aug. 1950. 13 R322  
English summary.
- 17396 GULLANDER, Å. Jorden är en; studiehandbok i internationella jordbruksfrågor [The world is one; study guide in international agricultural problems]. Stockholm, Lantungsdomens Föreningsstjänst, 1950. 95 p. (Jordbrukare-Ungdomens Förbund. Fri Horisont 2)
- 17397 HABIB, P. C. Canadian agricultural policy. II. *Foreign Agr.* 14:252-258. Nov. 1950. 1.9 Ec7For
- 17398 HACKENSCHMIED, W. Einige grundsätze der amerikanischen agrarpolitik. *Süddeut. Molk.-Ztg.* 71: 1334-1335. Sept.22, 1950. 44.8 Su2
- 17399 HAMANN, H. Thünen und wir? Ein appell an die europäische agrar- und sozialwissenschaft. *Agrar-polit. Rev.* 7:87-100. Oct./Nov. 1950. 281.8 Ag824
- 17400 HOBSON, K. Farm outlook—beef demand holding up; land prices booming; more strawberries next year. *Newest Farm News* 33(47):8. Nov.23, 1950. 275.293 N81
- 17401 HOBSON, K. Keeping up on the farm outlook. *Wash. State Col. Ext. C.* 162,6 p.-folder. Sept.30, 1950. 275.29 W27C
- 17402 HOLMSTROM, S. Production and marketing possibilities in agriculture. (In Swedish.) *Ladugården* 1950(9):264-270. Sept. 1950. 44.8 L12
- 17403 HOMAN, J. L. European agricultural policies. (In Dutch.) *Drents Landtbl.* 31(37):10. Sept.23, 1950. 12 D812  
Also in *Gelders Landtbl.* 13(37):10. Sept.23, 1950. 12 G282
- 17404 HOPPER, W. C. Just how important is agriculture anyway? *O. A. C. Rev.* 63:6-11,17. (To be cont.) Nov. 1950. 276.8 On8
- 17405 HORNICH, H. Probleme der alpinen landwirtschaft. *Pflug* 3:207-208. Oct. 1950. 19 P48 Austria.
- 17406 HORRING, J. The results of the agricultural conference at Luxembourg. (In Dutch.) *Econ.-Statist. Ber.* 35:894-895. Nov.8, 1950. 280.8 Ec722  
English summary, p. 891.
- 17407 HORST, M. Pennsylvania—a great agricultural state. *Pa. Grange News* 47(7):8-9. Oct. 1950. 6 P38
- 17408 HUMMEL, B. L. How rural western Europe looks to me. *Town & County Church* 66:7-9. Dec. 1950. 281.28 T66  
Agriculture.
- 17409 INDIAN NATIONAL CONGRESS. AGRARIAN REFORMS COMMITTEE. Report. New Delhi, All-India Congress Committee, 1949? 206 p. 281.182 In25  
Economic aspects of agriculture.
- 17410 INTERNATIONAL LABOR OFF. They make things grow; Italy's skilled farmers bring prosperity wherever they go. *Rome, 1949?* 16 p. 33.19 In8
- 17411 ITALIAN agriculture and ERP. I. *Foreign Agr.* 14:239-245. Nov. 1950. 1.9 Ec7For
- 17412 JENKS, J. Agricultural science. *Estate Mag.* 50:393-396. Oct. 1950. 10 Es8
- 17413 KALLBRUNNER, H. Wie steht es um die heimische landwirtschaft? *Oberöstr. Landwirtschaft.* 22 (37):4. Sept.13, 1950. 19 Ob23
- 17414 KENNERKNECHT, H. Betrachtungen am ende des alpsommers 1950. *Allgäuer Bauernbl.* 18:633-634. Oct.26, 1950. 18 AL53
- 17415 KRZEMIENSKI, B. L'agriculture, les prairies et les pâturages des Hautes Beskides en Pologne. *Interagra* 4:266-278. 1950. 28 In825
- 17416 LAFORET, H. Aspects de l'agriculture italienne. *Rev. Agr. de l'Afrique du Nord* 48:657-661. (Cont.) Sept.8, 1950. 80 R326
- 17417 LAGOS U., J. A. La agricultura en Costa Rica. *Agr. Costarricense* 7:383-394. Sept./Oct. 1950. 8 Ag895
- 17418 LAZECKY, F., and SPIRHANZL, J. Revue de la littérature agricole en Tchécoslovaquie. (In Russian.) *Interagra* 4:300-322. 1950. 28 In825  
Summary in French, p. 323-328.
- 17419 LEWIS, W. A. Developing colonial agriculture. *Trop. Agr. [Trinidad]* 27:63-73. Apr./June 1950. 26 T754
- 17420 LOS ANGELES COUNTY, CALIFORNIA. AGRICULTURAL COMMISSIONER. Annual report, fiscal year ending June 30, 1950. Los Angeles, 1950. 44 p. 81 L89A
- 17421 MACKAY, F. F. Horticultural prospects. *Estate Mag.* 50:403-404. Oct. 1950. 10 Es8  
Agricultural policy.
- 17422 MACKIE, M. A Scot abroad. *Scot. Agr.* 30: 65-69. Autumn 1950. 10 Sco82So  
Impressions of farming in the United States and Canada.
- 17423 MCNEELY, J. G. Farm program is typical example of democracy in action. *West. Tex. Today* 31(9): 8,26. Nov. 1950. 286.8 W522
- 17424 MACY, H. Twentieth century unlimited. *Minn Farm & Home Sci. [Minn. Sta.]* 8:3-4,13. Oct. 1950. 100 M668  
Changes in Minnesota agriculture.
- 17425 MALABARD, J. L'agriculture en Afrique du Sud. *Feuilles Agr.* 8:88-90. Jan./Mar. 1950. 24 F43
- 17426 MARGULIES, R. Konstruktive agrarpolitik. *Ernährungsdienst* 5(129):2. (To be cont.) Nov.9, 1950. 389.8 Er62  
Germany.



- 17427 MARTINEZ SURROCA, A. Garachine. Rev. de Agr., Com. e Indus. [Panama] 8(108/109):40-41. Aug./Sept.1950. 8 R3291  
Agriculture in a Panama town.
- 17428 MATSKEVICH, V. V., ed. Kolkhoznaya proizvodstvennaya ensiklopediya [Encyclopedia of collective farm production], v. 1. Kiev, Gos. Izd-vo Selkhoz Lit-ry USSR, 1949. 463 p. 30.1 K83
- 17429 MEDICI, G. The situation in agriculture. (In Italian.) Rinascente Agr. 5(20):1. Aug.15, 1950. 281.8 R47  
Italy.
- 17430 MERRILL, L. P. Permanent productive agriculture predicted; farmers moving towards safer, sounder, more profitable farming. East Tex. 25(2):7,14. Nov.1950. 6 Ea73
- 17431 MILLER, P. E. Some first impressions of Irish agriculture. Landmark 7(10):8,15. Oct.1950. 281.28 L23
- 17432 MINC, H. Le plan sexennal d'essor économique et de construction des bases du socialisme en Pologne. France. Dir. de la Doc. Notes et Études Doc. 1377,20 p. Sept.11,1950. 280.9 F843  
Includes agriculture in the Six-year Plan and the agrarian reform.
- 17433 MISSION TO COLOMBIA. The basis of a development program for Colombia; report of a mission headed by Lauchlin Currie. Washington, Internat. Bank Reconstr. Devlpmt., 1950. 642 p. 280.165 M69B  
Contains chapters on agriculture and an agricultural program.
- 17434 MORANDINI, E. Aspects of French agricultural policy. (In Italian.) Agenzia Romana Note e Inform. Agr. 77:7. Nov.15, 1950. 281.8 Ag3
- 17435 MOURA, V. Protein revolutionises the Congo economy. (In Portuguese.) Cooperativismo [Rio de Janeiro] 5(52):5-7. Oct.1950. 280.28 C7856  
Agricultural policy.
- 17436 OOTANI, S. Nogyo seisun-ryoku ronko [The discussion of agricultural productivity]. Tokyo, Chikyu Shuppan, 1949. 362 p. 343 Ool
- 17437 OXFORD UNIVERSITY. AGRICULTURAL ECONOMICS RESEARCH INSTITUTE. Hill farming. Westminster Bank Rev. 1950:16-18. Nov.1950. 286.8 W52
- 17438 PARKS, W. R. The challenge of research in agricultural political science. Land Econ. 26:315-324. Nov.1950. 282.8 J82
- 17439 PORTER, H. G. The Marshall Plan and agriculture. (Sum.) Fed. Reserve Bank Richmond. Mon. Rev. 1950:6-7. Dec.1950. 284.8 F31R
- 17440 RATCHFORD, C. B. What is ahead for the farmer in 1951? Tarheel Banker 29(6):5,19-20. Dec. 1950. 284.8 T17
- 17441 RIBEREAU, F. Production et productivité. Colon Franç. de Tunisie 60(2166):1. Oct.7, 1950. 24 C712
- 17442 RICHTER, J. European agricultural situation discussed. Aberdeen-Angus J. 32(4):49. Nov.1950. 43.8 Ab3
- 17443 RICHTER, K. Der fünfjahrplan. Statist. Praxis 5:137-141. Sept.1950. 251.8 St25  
Includes German agriculture.
- 17444 RITTERSHAUS, W. Exkursion nach Oberösterreich. Kärntner Bauer 100:368-369. Oct.10, 1950. 19 K14  
Agricultural.
- 17445 ROTHKOPF, P. Eine Amerikafahrt. Nachr. f. Beratung u. Ausbild. in der Landwirt. 3:115-116. Oct.1950. 18 N11  
Agricultural.
- 17446 ROYAL BANK OF CANADA. Agriculture in Canada's economy. Montreal, 1950. 4 p. 280.8 R81
- 17447 SAMUEL, F. Economic potential of colonial Africa. n.p., 1949. 18 p. 278.19 Sa4  
Includes agriculture.
- 17448 SAMUEL, P. Agriculture équatoriale Bantou et agriculture européenne. B. Agr. du Congo Belge 41:579-662. Ref. Sept.1950. 24 K83
- 17449 SĂVULESCU, T. Les tendances nouvelles dans les sciences agricoles et la transformation socialiste de l'agriculture dans la République Populaire Roumaine. (In Russian.) Interagra 4:216-229. 1950. 28 In825  
Summary in French, p. 230-232.
- 17450 SCHUMY, V. Gedanken über agrarpolitik. Oberösterreich. Landwirtsch. 22(38):1. Sept.20, 1950. 19 Ob23
- 17451 SCHWEIZERISCHE BANKGESELLSCHAFT. Brasilien. Schweiz. Bankgesell. [B.] 3,31 p. Oct.1950. 284.9 Sch92B  
Library has also French edition, 284.9 Sch92  
Includes survey of agriculture.
- 17452 SMEDING, P. A visit to France. (In Dutch.) Friesch Landtbl. 47:525,701. (Concl.) Sept.1, Nov.3, 1950. 12 F91  
Includes agriculture.
- 17453 SOUZA JUNIOR, J. O. DE. Schools of practical agriculture as a factor in our agricultural evolution. (In Portuguese.) Soc. Rur. Brasil. Rev. 30(358):34-42. Sept.1950. 9.2 B733  
Policy.
- 17454 STAHLI, H. Volk und Behörden in der Demokratie; eine stellungnahme zu zwei Initiativen, die auch die Landwirtschaft betreffen. Agrarpolit. Rev. 7:76-87. Oct./Nov.1950. 281.8 Ag824  
Switzerland.
- 17455 STEELQUIST, K. Food and the future. Pan Amer. 11(5):13-18. Oct.1950. 280.8 P192  
Agricultural policy and research in Mexico.
- 17456 STERRI, M. Bondens juridiske formularbok [The farmer's juridical formula book]. Oslo, Steensballe, 1949. 184 p. 30.5 St4
- 17457 STORM, E. Probleme der westdeutschen Landwirtschaft. Hannoversche Land- u. Forstwirt. Ztg. 103:839. Sept.23, 1950. 18 H194
- 17458 STOTTER, S. Landwirtschaftliche aufbauarbeit im gemischtsprachigen gebiet. Kärntner Bauer 100:356-357. Oct.10, 1950. 19 K14  
Includes education.
- 17459 STREICHER, E. Wer hat den bogen überspannt? Württemb. Wchnbl. f. Landwirt. 117:793-794. Aug.26, 1950. 18 W96  
Agricultural policy.
- 17460 STRÖBELE, F. Der Bauer befürwortet den südweststaat. Württemb. Wchnbl. f. Landwirt. 117:881-882. Sept.23, 1950. 18 W96
- 17461 SUPREME COMMANDER FOR THE ALLIED POWERS. NATURAL RESOURCES SECT. Japanese natural resources; a comprehensive survey. Tokyo, 1949. 559 p. 280.183 Su7J  
Includes agriculture and forestry.
- 17462 TIMMER, W. J. Totale landbouwwetenschap [Complete agricultural science]. Groningen, Wolters, 1949. 306 p. 275.1 T48
- 17463 TRINIDAD. ECONOMICS COMMITTEE. Report. Port-of-Spain? Govt. Printer, 1949. 259 p. 280.14 T73  
Includes agriculture in Trinidad and Tobago.
- 17464 UNION OF SOUTH AFRICA. DEPT. OF NATIVE AFFAIRS. Report for the years 1948-49. Parow, 1950. 44 p. 280.9 So842  
Includes agriculture and land administration.
- 17465 U. S. BUR. OF FOREIGN AND DOMESTIC COMMERCE. Republic of the Philippines—summary of basic economic information. U. S. Bur. Foreign & Dom. Com. Internat. Ref. Serv. 7(102), 12 p. Nov.1950. 157.54 In8  
Includes agriculture.
- 17466 U. S. ECONOMIC SURVEY MISSION TO THE PHILIPPINES. Report to the President of the United States. U. S. Dept. State. Far East. Ser. 38, 107 p. Oct.9, 1950. 150 F22  
Includes agriculture.
- 17467 U. S. INSTITUTE OF INTER-AMERICAN AFFAIRS. FOOD SUPPLY DIV. Agricultural progress in Peru; summary report, 1943-1949, of the Servicio Cooperativo Inter-Americano de Producción de Alimentos (SCIPA) and the IIAA Food Supply Party in Peru. Washington, 1950. 36 p. 173.3 In83Agp
- 17468 U. S. PRODUCTION AND MARKETING ADMIN. 1951 National Agricultural Conservation Program bulletin. Washington, 1950. 23 p. 1.42 Ad4Ach
- 17469 VISOCCHI, V. Italian agriculture in European economic reconstruction. (In Italian.) Ital. Agr. 87:602-610. Oct.1950. 16 It1
- 17470 WICKARD, C. R. Farmers and their Government. Co-op Connector 1950:13-16. Dec.1950. 280.28 C7887  
Agricultural policy.



- 17471 WILLIAMS, T. Current problems of crop production in Great Britain. *Food & Agr.* 3:144-145. July/Sept. 1950. 389.8 F7326
- 17472 WIRTH, Zur lage der württembergisch-badischen landwirtschaft am anfang des wirtschaftsjahres 1950-51; ausblick und rückblick. *Württemberg. Wchnbl. f. Landwirt.* 117:901-903. Sept. 30, 1950. 18 W96
- Also in *Bad. Landwirt. Wchnbl.* 117:657-659. Sept. 30, 1950. 18 W96
- 17473 WOOD, J. B. Seed beds of socialism: No. 3. Department of Agriculture. *Nation's Business* 38(12):54-55, 58-60. Dec. 1950. 286.8 N212
- 17474 WORTHINGTON, E. B. A development plan for Uganda; and the 1948 revision of the plan, by Sir D. Harris. Entebbe, Govt. Printer, 1949. 2 v. 280.19 W89 Includes agriculture.

#### Subsidies

- 17475 HELMKE, G. Industrielle subventionsrentner. *Deut. Landwirt. Presse* 73(21):3-4. Oct. 7, 1950. 18 D482
- The flax industry.
- 17476 STORM, E. Agrarsubventionen—bei den anderen; die hilfe für die landwirtschaft in den Vereinigten Staaten und in England. *Hannoversche Land- u. Forstwirt. Ztg.* 103:687, 706. Aug. 5-12, 1950. 18 H194
- 17477 SWITZERLAND. Eidgenössisches Statistisches Amt. Bundessubventionen und gesetzliche anteile, 1947. Switzerland. Eidg. Statist. Amt. Statist. Quellenwerke der Schweiz. 220, 45 p. 1950. 262 St2Q
- 17478 THIELEMANS, G. Le système des primes dans l'économie laitière. *Belg. Lait.* 4(14):2-3. Sept. 1950. 44.8 B412

#### COST AND STANDARD OF LIVING

- 17479 BRAYNE, F. L. The peasant's home, and its place in national planning. London, Village Welfare Assoc., 1949. 24 p. 281.2 B733
- Improvement of living standards in India.

#### FARM MANAGEMENT AND LAND ECONOMICS

- 17480 BAY, C. Healthy pastures mean healthier livestock. *Mo. Col. Farmer* 43:6, 17. Oct. 1950. 6 M691
- Livestock-pasture farming, Missouri.
- 17481 BOHME, K. Dänische Kleinbauernbetriebe. *Bad. Landwirt. Wchnbl.* 117:561-562. Aug. 19, 1950. 18 B142
- Similar title in *Deut. Landwirt. Presse* 73(19):11. (Cont.) Sept. 9, 1950. 18 D482
- 17482 BÖHME, K. Verbilligung der produktion. *Deut. Landwirt. Presse* 73(21):1-2. Oct. 7, 1950. 18 D482
- 17483 BOND, J. Farming tradition—have we got one? *Veldtrust* 11(7):6-9, 11, 25. July 1950. 56.8 V54
- 17484 BRIDGER, R. From derelict croft to production unit. *Scot. Agr.* 30:71-75. Autumn 1950. 10 Sco82So
- 17485 BROEKHUIS, E. Regional farm economic research. (In Dutch.) Netherlands Landbouwvoorlichtingsdienst. *Maandbl.* 7:385-391. Sept. 1950. 12 N383M
- 17486 BROGGI, E. Necessity for emphasizing the stall. (In Italian.) *Campagna Milan.* 1950(6):1. Mar. 31, 1950. 16 C153
- Dairy farm management.
- 17487 BROWN, C. Agricultural methods in America. *Land Worker* 31(378):5. Nov. 1950. 283.8 L22
- 17488 BULLARD, A. G. Three-way conferences aid in planning supervised farming programs. *Agr. Educ. Mag.* 23:116, 119. Nov. 1950. 275.8 Ag8
- 17489 CAMBRIDGE UNIVERSITY. DEPT. OF AGRICULTURE. A study of milk production in the Eastern Counties 1945/6—1947/8. Cambridge U. Dept. Agr., Farm Econ. Br. Rpt. 34, 52 p. Oct. 1950. 281.9 C14
- 17490 CANDIOLI, P. La piccola proprietà coltivatrice, nei suoi aspetti sociali, tecnici ed economici [The small farm in its social, technical, and economic aspects]. Verona, Bettinelli, 1949. 9 p. 281.176 C16
- 17491 DAVIDSON, C. G. Misuse of our mining laws. (Condensed.) *Farm Policy Forum* 3(12):19-20. Dec. 1950. 281.8 F2274
- 17492 DILLON, M. Beet and wheat. *Agr. Ireland* 7:253, 255-256. Nov. 1950. 10.5 Ag8
- Sugar beets and wheat production with dairy farming in Ireland.
- 17493 DOANE, D. H. Vertical farm diversification. Norman, U. Okla. Press, 1950. 183 p. 281.12 D652
- 17494 DONEY, R. P. Light land farming in North Worcestershire. *Worcestershire Agr. Chron.* 18:291, 293, 295. Aug./Oct. 1950. 10 W892
- 17495 DUNCAN, A. A. Farming in New Zealand; Gisborne-East Cape district. *New Zeal. J. Agr.* 81:209, 211-213, 215, 217-219, 221-222. Sept. 1950. 23 N48J
- 17496 DU PLESSIS, C. VAN H. Challenge to the corn farmer. (In Afrikaans.) *Landbouweekblad* 32 (1632):17. Oct. 25, 1950. 24 L232
- 17497 ELAM, F. L. A family affair that describes the Hite dairy operation. *West. Dairy J.* 7:10, 26-27. Nov. 1, 1950. 44.8 W524
- Farm management.
- 17498 ELEAZER, J. M. Interesting things in Mexico. *Prog. Farmer, Carolinas-Va.* Ed. 65(11):19, 134. Nov. 1950. 6 P945
- Farming in Mexico; foot-and-mouth disease control.
- 17499 ELEY, G. The tangle o' the Isles. *Essex Farmers' J.* 29(9):21, 23. Nov. 1950. 10 Es72
- Farming on the Isle of Skye.
- 17500 ELLIS, H. H. The law and your father-son agreement. *Iowa Holstein Herald* 11(3):19, 23. Sept. 1950. 49 Io92
- 17501 ELLIS, H. H. Your father-son agreement. *Mont. Farmer-Stockman* 37(22):34-35. July 15, 1950. 6 M764
- 17502 FORTIN, G. N. Comment l'on peut arriver à produire une moyenne de 7,000 livres de lait. *Terre de Chez Nous* 22(37):7, 23. Nov. 8, 1950. 7 T27
- Observations on a Vermont farm.
- 17503 FULLILOVE, W. T., and ELROD, J. C. Cotton production practices and costs in the Lower Coastal Plain of Georgia. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 27, 31 p. Sept. 1950. 100 G29M
- 17504 FULLILOVE, W. T., and ELROD, J. C. Oat production practices and costs in the Piedmont of Georgia. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 29, 12 p. Oct. 1950. 100 G29M
- 17505 FULLILOVE, W. T., and ELROD, J. C. Spanish peanut production practices and costs in the Coastal Plain of Georgia. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 28, 17 p. Sept. 1950. 100 G29M
- 17506 GARRAD, G. H. Romney Marsh. *Gt. Brit. Min. Agr. Agriculture* 57:322-327. Oct. 1950. 10 G79J
- Farming in the area.
- 17507 GRISARD, J. C. Produire du lait économique est un problème difficile qui nécessite des connaissances techniques approfondies. *Agr. du Sud-Est (n.s.)* 57(18):1-2. Nov. 5, 1950. 14 Ag88
- 17508 GURINA, Z. P., and MEIBOM, B. G. Peredovaia molochno-tovarnaia ferma [A leading dairy farm]. *Gor'kii, Gor'kovskoe Obl. Gos. Izd-vo*, 1950. 44 p. 43 G96
- Management.
- 17509 HAMILTON, L. H. Putting on the beef. *Macdonald Col. J.* 11:8-10. Sept. 1950. 101 M144
- Farming sidelines that fit in with beef cattle production.
- 17510 HARRINGTON, B. J. Okra production practices and costs in the Lower Coastal Plain of Georgia. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 30, 20 p. Oct. 1950. 100 G29M
- 17511 HARRINGTON, L. Ranch round-up. *Canad. Geog. J.* 41:235-239. Nov. 1950. 470 C162
- 17512 HAVILAND, W. E. Ontario tobacco farm organization and selected New Belt production problems. *Econ. Annal.* 20:127-133. Dec. 1950. 281.8 Ec72
- 17513 HUTCHINGS, C. D. Guide to the technique of holdings development. *Farmer [Kingston]* 54:108-125. June/July 1950. 8 J223
- 17514 IGNAR, S. L'évolution socio-economique du village polonais. (In Russian.) *Interagra* 4:248-253. 1950. 28 In825
- Summary in French, p. 253-256.
- Collectivization of agriculture.
- 17515 KAZINTSEV, D. Economics of an enlarged collective farm. (In Russian.) *Kolkhoz. Proizvodstvo* 10 (7):5-7. July 1950. 281.8 K83
- Trud Collective Farm in Zagorsk District, Moscow Region.
- 17516 LAFORET, H. Aspects de l'agriculture italienne: le métayage en Toscane. *Rev. Agr. de l'Afrique du Nord* 48:644-647. (Cont.) Sept. 1, 1950. 80 R326



- 17517 LARUE, W. C. A 94-acre farm that makes big profits. *Prog. Farmer, Carolinas-Va.* Ed. 65(11):15, 130,141. Nov.1950. 6 P945  
Management of a farm in Virginia.
- 17518 LE DUC, T. The disposal of the public domain on the trans-Mississippi plains: some opportunities for investigation. *Agr. Hist.* 24:199-204. Oct.1950. 30.98 Ag8
- 17519 LINK, P. Sheep farming in Argentina and Uruguay. *Wool Knowl.* 1950(8):8-13. Autumn 1950. 304.8 W886
- 17520 MCGINNIS, R. J. The durable Dutch. *Farm Q.* 5(4):81-86,113-117. Winter 1951. 6 F22995
- 17521 MCKEE, C. Our advancing technology in Montana agriculture. *Mont. Farmer-Stockman* 38(5):1,10-11. Nov.1,1950. 6 M764
- 17522 MACKENZIE, J. G., and RIECKEN, T. O. The farm business in the Gilbert Plains and Sifton areas of Manitoba, 1949. *Econ. Annals* 20:137-142. Dec.1950. 281.8 Ec72
- 17523 MASS, D. Farming in Israel: field crops—the basis of our farms. *Pioneer* 1(10):4-7,31. Aug./Sept. 1950. 282.28 P65
- 17524 MAYS, G. You can own a farm. *Tractor Farming* 34:6. Winter 1950. 58.8 T672
- 17525 MOLNAR, I. Dairy farming under irrigation. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 3:119-125. July 1950. 281.9 Au73  
Australia.
- 17526 MONTGOMERY County [Pennsylvania] farm directory, 1949. Allentown, 1950. 104 p. 225 M763
- 17527 MORTENSON, W. P. Progress in dairy farming; through mechanization and increased labor efficiency, dairy production has jumped 50% in past 20 years. *Hoard's Dairyman* 95:780. Nov.10,1950. 44.8 H65
- 17528 MUNDE, H. Anbauplanung 1950/51. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1269. Sept.14,1950. 18 L2346
- 17529 MUNIAPPA, T. Sheep farming. *Mysore Agr. Calendar* 1949/50:37-39. 1949. 34.2 M99  
Management.
- 17530 NEUY. Stille verluste in der geflügelwirtschaft. *Kleintierzüchter Tierbörse* 4(43):3-4. Sept.10, 1950. 49 K672
- 17531 NODLAND, T. R., POND, G. A., and TYVAND, J. A. Annual report of the farm management service for veterans taking on-the-farm training in northeastern Minnesota 1949. *Minn. U. Div. Agr. Econ. Mimeog. Rpt.* 184,27 p. Oct.1950. 281.9 M66  
Vocational Division, Minnesota Department of Education cooperating.
- 17532 NODLAND, T. R., TYVAND, J. A., and POND, G. A. Annual report of the farm management service for veterans taking on-the-farm training in northwestern Minnesota 1949. *Minn. U. Div. Agr. Econ. Mimeog. Rpt.* 185,28 p. Oct.1950. 281.9 M66  
Vocational Division, Minnesota Department of Education cooperating.
- 17533 NODLAND, T. R., and others. Annual report of the farm management service for veterans taking on-the-farm training in southeastern Minnesota 1949. *Minn. U. Div. Agr. Econ. Mimeog. Rpt.* 183,29 p. Aug. 1950. 281.9 M66  
G. A. Pond, B. F. Stanton, and J. A. Tyvand, joint authors.  
Vocational Division, Minnesota Department of Education cooperating.
- 17534 NODLAND, T. R., POND, G. A., and STANTON, B. F. Annual report of the farm management service for veterans taking on-the-farm training in southwestern Minnesota 1949. *Minn. U. Div. Agr. Econ. Mimeog. Rpt.* 182,28 p. July 1950. 281.9 M66  
Vocational Division, Minnesota Department of Education cooperating.
- 17535 NULEND, H. C. K. View of an American farm in the Middle West. (In Dutch.) *Gelders Landbbl.* 13 (40):11. Oct.14,1950. 12 G282
- 17536 OKLAHOMA. AGRICULTURAL AND MECHANICAL COLLEGE. EXTENSION DIV. Seven principles of successful farming in Oklahoma. *Okla. Agr. Col. Ext. C.* 446,8 p.-folder. n.d. 275.29 Ok41C
- 17537 PETERSEN-DALUM, J. Some fall problems. (In Danish.) *Dansk Landbr.* 69:467-468. Sept.14,1950. 280.28 V91  
Management.
- 17538 PRUDNIKOV, I. A. Sovkhoz "Kuban'" [Kuban State Farm]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 55 p. 33.31 P95
- 17539 PUTNAM, P. L., and MCKAIN, W. C., JR. A retirement guide for Connecticut farmers. *Conn. Agr. Col. Ext. Folder* 43,8 p. Aug.1950. 275.29 C76Ex  
Partnership.
- 17540 RINTELEN, P. Betriebsplanung für bäuerliche wirtschaften. *Nachr. f. Beratung u. Ausbild. in der Landwirt.* 3:117-118. Oct.1950. 18 N11  
Germany.
- 17541 ROARK, C. L. The Southern farm of tomorrow South. *Planter* 111(11):10-11,26. Nov.1950. 6 So89
- 17542 ROSE-MILLER, G. P. Ten years' experience of marginal land farming. *Scot. Agr.* 30:61-65. Autumn 1950. 10 Sco82So
- 17543 SHPIGUZOV, S. Our public economy is growing and expanding. (In Russian.) *Kolkhoz. Proizvodstvo* 10(7):3-4. July 1950. 281.8 K83  
Novafá Zhizn' Collective Farm in Verkhne-Mullinskii District, Molotov Region.
- 17544 STROHBÜCKER, K. Abhängig von den menschen. *Deut. Landwirt. Presse* 73(19):2-3. Sept.9, 1950. 18 D482  
Farm management.
- 17545 STRONG, K. G. "Dairy Farmer" low-cost investigation; these methods save us 7d. on every gallon. *Dairy Farmer [Ipswich]* 23(11):10. Nov.1950. 44.8 D1439
- 17546 TAYLOR, H. Farm plays large part in life at Abilene State Hospital. *Southwest. Crop & Stock* 4(11):11, 77-78. Nov.1950. 6 So8942
- 17547 TENEMBAUM, J. L. La diversificación de la producción y la conservación del suelo. (Excerpts.) *Uruguay. Inst. Nac. de Colon. B.* 1(7):4. Aug.1950. 282.29 Ur8
- 17548 TOKMAKOV, P. Growth of marketable production. (In Russian.) *Kolkhoz. Proizvodstvo* 10(7):7-8. July 1950. 281.8 K83  
Diversified farming at Zarfa Kolkhoz in Kirov Region.
- 17549 VILLIERS, P. C. DE., and PONS, J. E. Plan your production for the coming season. *Farmer & Countryman* 39(41):8-9. Oct.13,1950. 24 F227
- 17550 WADE, W. Fifteen years farming in South-East Durham. *Gt. Brit. Min. Agr. Agriculture* 57:309-316. Oct.1950. 10 G79J
- 17551 WARE, R. R. General principles of estate management under the Agriculture Act, 1947. In *Gt. Brit. Ministry of Agriculture and Fisheries. Agricultural Land Serv. Fixed equipment of the farm*, p.9-13. 1950. 296 G7932
- 17552 ZOLLER. Der Schlosshof bei Perlesreuth im Bayerischen Wald. *Tierzüchter* 2:411-413. Aug.5,1950. 49 T445  
Farm management.

#### Bookkeeping and Records

- 17553 CAVINA, R. When agricultural accounting should be used. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 14:112. Apr./June 1950. 9.2 R325
- 17554 CHUVIKOV, V., and SIDELKIN, N. Accounting practices and financial work at Stalin Kolkhoz [Artemov District, Stalingrad Region]. (In Russian.) *Kolkhoz. Proizvodstvo* 10(7):39-40. July 1950. 281.8 K83
- 17555 MACDONALD, C. Farm records. *Scot. Agr.* 30:69-70. Autumn 1950. 10 Sco82So

#### Costs and Returns

- 17556 BECKER, H. A. Zum kern der sache! *Deut. Landwirt. Presse* 73(19):1. Sept.9,1950. 18 D482  
Relation of costs to prices.
- 17557 BERNARD, P. Salaires et engrais dans la production agricole. *Monit. Agr.* 3(136):2. Nov.19,1950. 14 M744  
Costs and returns in wheat production.
- 17558 BLAGBURN, C. H. Costs and returns from barley production on 28 farms in the South of England in 1949. *Reading, Eng. U. Dept. Agr. Econ. Misc. Cost Studies* 17,10 p. Aug.1950. 281.9 R22M
- 17559 BOTSFORD, H. E. How do you price baby chicks? *Poultry Impr. Bd. N. Y. Ybk.* 1950/51:12,66. 47.9 N484  
Costs and returns.



- 17560 BROGGI, E. Costs and prices in agriculture. (In Italian.) Campagna Milan. 1950(8):1. Apr.30,1950. 16 C153
- 17561 BROOKE, D. L., and SPURLOCK, A. H. Labor and material requirements, costs of production and returns on Florida tomatoes. Fla. Agr. Expt. Sta. B. 474, 34 p. Sept.1950. 100 F66S
- 17562 BROWN, L. H. Farm expenses are increasing. Mich. State Col. Agr. Ext. Mich. Farm Econ. 93:2-4. Sept.1950. 275.29 M58A
- 17563 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1949 citrus production cost study; lemons & grapefruit, San Bernardino County, 1940-1949, by W. Sullivan and J. A. Beutel. Berkeley,1950? 12 p. 275.29 C12En
- 17564 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1949 orange production cost study; Navels & Valencia's, San Bernardino County, ten year summary, 1940-1949, by W. Sullivan and J. A. Beutel. Berkeley,1950? 12 p. 275.29 C12En
- 17565 CAMBRIDGE UNIVERSITY. DEPT. OF AGRICULTURE. Changes in the economic organisation of agriculture; a comparative study of conditions in the Eastern Counties of England between an identical sample of farms in 1948-49. Cambridge U. Dept. Agr., Farm Econ. Br. Rpt. 35,32 p. Nov.1950. 281.9 C14
- Costs and returns.
- 17566 CONNELLY, R. G. Figuring the cost of milk production. Va. Dairymen 11(8):1-3. Sept.1950. 44.8 V81
- 17567 COSSETTE, M. Quelle décision prendrez-vous? B. des Agr. 46(10):10-11. Oct.1950. 7 B872
- Canadian costs and returns.
- 17568 COST of production of fodder crops. 1-2. N. F. U. Inform. Serv. 196-200,222-224. Oct.-Nov.1950. 281.9 N213N
1. Kale; 2, Mangolds. England.
- 17569 CRAMOIS. La trésorerie des exploitations agricoles. (Extr.) Défense Agr. de la Beauce et du Perche 47:401-402. Nov.4,1950. 14 D36
- Costs and returns.
- 17570 ENGELBERTINK, B. A. A. A paying price for every product. (In Dutch.) Boer en Tuinder 4(194): Oct.7,1950. 12 B632
- Netherlands.
- 17571 ETTORI, O. T. Factors affecting agricultural returns. (In Portuguese.) Cooperativismo [Rio de Janeiro] 5(52):10-11. Oct.1950. 280.28 C7856
- 17572 FISCHETTI, G. The balance sheet of a small direct cultivator owner in Agerola. (In Italian.) Ital. Agr. 87:638-642. Oct.1950. 16 It1
- Costs and returns.
- 17573 FORTIN, G. N. Le coût de revient du lait. Terre de Chez Nous 22(37):3. Nov.8,1950. 7 T27
- Canada.
- 17574 GRATON, A. Vos dindons vous ont-ils payé? B. des Agr. 46(12):16-17. Dec.1950. 7 B872
- Canada.
- 17575 HANSSON, A. Recruiting costs. (In Norwegian.) Buskap og Avdrått 1950(3):22-23,25-27. 49 B96
- Cost of raising heifers.
- 17576 HENISCH, G. Grössere rentabilität der hühnerhaltung. Osterr. Kleintierzüchter 1950:818. Sept. 1950. 49 Os7
- 17577 KEARL, C. D. Costs and returns in producing potatoes on New York cost account farms. N. Y. Agr. Col. Farm Econ. 176:4544-4549. Sept.1950. 280.8 C812
- 17578 LETTY, M. S. Does commercial egg production pay? S. A. P. A. Poultry B. 15(157):13,15. Oct.1950. 47.8 So89
- 17579 MORRIS, S. T., and GYNN, R. N. Costs and returns of growing potatoes, South West Province, 1949 crop. Bristol U. Dept. Econ. Farmers Rpt. 63,29 p. Oct.1950. 281.9 S61
- 17580 PRATOLONGO, U. Cultural intensification and cost prices. (In Italian.) Ital. Agr. 87:515-520. Sept. 1950. 16 It1
- 17581 REINHARDT, W. Buchführung und selbstkosten-ermittlung. Deut. Landwirt. Presse 73(20):8. Sept.23,1950. 18 D482
- 17582 SAVAGE, Z. Operating costs increasing. Citrus Mag. 13(3):26-27. Nov.1950. 80 C498
- 17583 SCHUMY, V. Arbeitsverdienst, produktionskosten und preise in der landwirtschaft. Agr. Rundschau 4:20-38. Summer 1950. 280.8 Ag82
- 17584 SCOVILLE, G. P. Effect of acreages, yields and prices on returns to apple growers during 1948. N. Y. Agr. Col. Farm Econ. 176:4542-4544. Sept.1950. 280.8 C812
- 17585 SIMPSON, I. G. Costs and returns from fattening cattle in yards on 19 Yorkshire farms, 1949-50. Leeds U. Farmers' Rpt. 93,13 p. Sept.1950. 281.9 L51
- 17586 STATUTI, M. Cost of grape culture in the mountain. (In Italian.) Campagnolo 5(10):5. Oct.1950. 16 C15
- Italy.
- 17587 VAN DER MERWE, J. A. Is there money in broiler production? S. A. P. A. Poultry B. 15(157):7-9. Oct.1950. 47.8 So89
- Includes costs and returns.
- 17588 LES VARIATIONS régionales des recettes de l'agriculture. France. Inst. Natl. de la Statis. et des Études Econ. Études et Conjoncture. Econ. Franç. 5(5): 25-51. Sept./Oct.1950. 280.8 F84
- 17589 VELDINK, J. G. Financial results of the small mixed farms on sandy soil. (In Dutch.) Netherlands Landbvoorlichtingsdienst. Maandbl. 7:378-385. Sept.1950. 12 N383M
- 17590 WAHLBERG, H. E. Wind machines cost analysis; cost records studied for effectiveness of machines in frost protection, operation and maintenance. Calif. Agr. [Calif. Sta.] 4(11):13. Nov.1950. 100 C12Cag
- 17591 WEGEMANN, W. Der monatsbericht als zwischenbetriebliches hilfsmittel der selbstkostenrechnung. Süddeut. Mol. -Ztg. 71(30):inside front cover. July 28,1950. 44.8 Su2
- 17592 WIND, C. The financial side of cooperative machine milking. (In Dutch.) Alg. Nederland. Zuivelbond Off. Orgaan 42:427-428. Sept.6,1950. 44.9 AL3
- 17593 WITT, M. Verbilligung der milcherzeugungskosten; wirkungsvollstes mittel: erhöhung der milchergiebigkeit. Mol. -Ztg. 4(36)(sup.:Unser Milchvieh. Aug. A 2(9):1-2.). Sept.7,1950. 44.8 M735
- 17594 WYNNE, A. J. Milk production costs in Yorkshire, winter 1949/50. Leeds U. Farmers' Rpt. 92,9 p. Aug.1950. 281.9 L51

#### Land Settlement and Colonization

- 17595 AUGUSTO B., H. Técnicos italianos visitan las zonas agrícolas de Jaén y Bagua con fines de colonización. Rev. Agropecuaria del Perú 1(2):59-60. Apr./June 1950. 9.8 R322
- 17596 AUSTRALIA. MINISTRY OF POST-WAR RECONSTRUCTION. The farmer was a fighting man, the story of war service land settlement. Canberra,1949. 23 p. 282.2 Au7F
- 17597 BEVARD, G. E. Idaho's new frontier. West. Farm Life 52(21):7,18. Nov.1,1950. 6 R153
- Land now under Bureau of Reclamation control, slated for development and settlement through homesteading.
- 17598 CALPIN, G. H. An Indian State in Africa? Pros and cons of a new colonization plan. African World 1950:11. Nov.1950. 286.8 Af8
- 17599 CASTAÑON ALBERTOS, G. Realizaciones en grandes zonas. Agricultura [Madrid]. Sup. de Colon. 11: 19-24. Aug.1950. 15 Ag84B
- Spanish settlement.
- 17600 CONNELL, K. H. The colonization of waste land in Ireland, 1780-1845. Econ. Hist. Rev. (ser. 2)3:44-71. Ref. 1950. 277.8 Ec7
- 17601 DIAZ DE VILLEGAS, J. Las colonias españolas de Africa. Inform. Com. Espan. (ser.3)204:1100-1106. Aug.1950. 286.8 In3
- 17602 ECUADOR. PRESIDENTE, 1948- (PLAZA LASSO). Plan de colonización italiana. Quito,Talleres Gráficos Nacionales,1950. 127 p. 282.2 Ec9
- 17603 FEITELBERG, L. Moledeth-Bnei Birth, a new adventure in living. Tel-Aviv,Lion,1949. 121 p. (Palestine Pioneer Libr. No. 16) 282.2 F32
- 17604 GARCIA ATANCE, J. Los planes coordinados de obras. Agricultura [Madrid]. Sup. de Colon. 11:9-12. Aug.1950. 15 Ag84B
- Land settlement in Spain.



- 17605 GOMEZ AYAU, E. Explotación de los núcleos de colonización en las zonas regables. *Agricultura [Madrid]*. Sup. de Colon. 11:13-18. Aug.1950. 15 Ag84B Spain.
- 17606 KNEWITZ. Neusiedlung im Königsmoor. *Hannoversche Land- u. Forstwirt. Ztg.* 103:842. Sept.23, 1950. 18 H194
- 17607 LLOVET, E. Comentários sobre colonización. Montevideo, Instituto Nacional de Colonización, 1949. 24 p. 282.2 L77
- 17608 MACKAYE, B. Geography to geotechnics—a series. II. From homesteads to valley authorities. Survey 86:496-498. Nov.1950. 280.8 C37 Land settlement and regional planning.
- 17609 MARTÍNEZ BORQUE, A. Planes generales de colonización. *Agricultura [Madrid]*. Sup. de Colon. 11:5-8. Aug.1950. 15 Ag84B Spain.
- 17610 MONTERO, F. DE. Ante todo la colonización de nuestras zonas regables. *Agricultura [Madrid]*. Sup. de Colon. 11:2-4. Aug.1950. 15 Ag84B Spain.
- 17611 PELA. Siedlers freud und leid in Oberösterreich. *Siedler* 5(11/12):1-2. Nov./Dec.1950. 19 S11
- 17612 PEREIRA, J. V. DA C. The place of geographical projects in colonization work in the Central-west. (In Portuguese.) (Sum.) *Brazil. Cons. Nac. de Geog. B. Geog.* 7:1505-1508. Mar.1950. 331.9 B73 Brazil.
- 17613 QUATTROCCHI, N. Cooperation and Italian settlement in Brazil. (In Portuguese.) *Cooperativismo [Rio de Janeiro]* 5(52):13-14, 19-20. Oct.1950. 280.28 C7856
- 17614 REYNOLDS, M. G. Latin Americans in Israel. *Américas* 2(11):2-5, 40-42. Nov.1950. 150.9 Am34 Settlement.
- 17615 TORRES FILHO, A. Rural settlement. (In Portuguese.) *Seleç. Agr.* 5(53):5-6. Sept.1950. 9.2 Se4 Brazil.
- 17616 WEITZ, J. Pioneering settlements: Bror-Chayil. *Pioneer* 1(10):25-26. Aug./Sept.1950. 282.28 P65 Israel.
- Land Tenure**
- 17617 ANDERSON, W. C. Who will get your farm? *Pa. Farm Econ.* 40:4-6. Oct.1950. 275.29 P382Pf Transferring ownership.
- 17618 ARMES, M. J. From father to son. *Pa. Farm Econ.* 40:6-8. Oct.1950. 275.29 P382Pf
- 17619 BANDINI, M. Application of the agrarian reform and development of agricultural mechanization. (In Italian.) *Agr. Ital.* 1:444-446. Sept.15, 1950. 16 Ag822 English summary.
- 17620 BANDINI, M. Confirmation at Naples of the essential lines for concrete carrying out of the reform. (In Italian.) *Agr. Ital.* 1:503-505. Oct.15, 1950. 16 Ag822 Report of the National Conference for the Agrarian Reform.
- 17621 BANDINI, M. The land reform and the grazing industry. (In Italian.) *Agr. Ital.* 1:413-415, 418. Sept.1, 1950. 16 Ag822
- 17622 BANDINI, M. Technical problems in the achievement of the land reform. (In Italian.) *Agr. Ital.* 1:476-482. Oct.1, 1950. 16 Ag822
- 17623 BONSER, H. J. Some factors in farm organization and returns in tenants and landlords by type of leasing arrangements, west Tennessee, 1947. *Tenn. Agr. Expt. Sta. B.* 217,58 p. June 1950. 100 T25S
- 17624 BRANNAN, C. F. Land and liberty. Washington, U. S. D. A., Off. Sec., 1950. 11 p. 1.91 A2B73 Talk at meeting of North Dakota Farmers Union, Bismarck, North Dakota, Nov. 18, 1950. Family farming and family farm ownership.
- 17625 BRATTON, C. A. Farm tenancy law in New York. *Farm Res. [N. Y. State Sta.]* 16(4):12. Oct.1950. 100 N48A
- 17626 BULLING. Sind härten in der gesetzl. erbfolge nach höferecht zu besettigen? *Landwirtsch. Weser-Ems* 97:816-818. Sept.28, 1950. 18 L2345
- 17627 CACCIAGUERRA, J., and GORSSE, A. DE. La France: pays de grandes propriétés rurales. *Agriculture [Paris]* 14:269-270. Sept.1950. 14 Ag823
- 17628 CAMPANILE, P. F. Beginning of the agrarian reform in Calabria; how land is granted to the peasants. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 81:1-3. Nov.29, 1950. 281.8 Ag3
- 17629 CANCELLARA, E. Technical council on river access. (In Italian.) *Riv. di Estimo Agr. e Genio Rur.* 13:403-412. Aug.1950. 281.8 R522
- 17630 CANDIOLI, P. Aspects of the land reform. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:264-265. Oct.15, 1950. 16 C72
- 17631 CANDIOLI, P. La riforma agraria vista da un contadino [The agrarian reform as seen by a peasant]. Verona, Federazione Provinciale della Tecnica Agricola, 1949. 7 p. 282.176 C16
- 17632 CASTELLANO, P. Características y resultados de la redistribución de la tierra. I-III. *Confed. de Cám. Nac. de Com. Carta Semanal* 14(695):4, 18; (696):4-5, 19; (697):5-6, 14. Oct.7-21, 1950. 286.8 C76 Mexico.
- 17633 CERRILLO QUILEZ, F. El subarriendo. *Agricultura [Madrid]* 19:429-430. Sept.1950. 15 Ag84
- 17634 CERRILLO QUILEZ, F. Subarriendos permitidos. *Agricultura [Madrid]* 19:477-478. Oct.1950. 15 Ag84
- 17635 COLOMBO, E. Consider with positive spirit the realization of the agrarian reform. (In Italian.) *Agr. Ital.* 1:473-474. Oct.1, 1950. 16 Ag822
- 17636 FANNING, J. W. Livestock share leases offer opportunity to young men to get more farm capital. *Prog. Farmer, Ga.-Ala.-Fla. Ed.* 65(11):22. Nov.1950. 6 P945G
- 17637 FÉLICE, P. DE. Le droit de préemption en cas d'adjudication. *Monit. Agr.* 3(136):5. Nov.19, 1950. 14 M744 Leases in France.
- 17638 FÉLICE, P. DE. Quelle est la nature de votre bail? *Défense Agr. de la Beauce et du Perche* 47:379. Oct.14, 1950. 14 D36 France.
- 17639 FÉLICE, P. DE. La réforme du statut du fermage. *Monit. Agr.* 3(134):5. Nov.5, 1950. 14 M744 France.
- 17640 FÉLICE, P. DE. Une réforme nécessaire du droit de reprise. *Monit. Agr.* 3(131):5. Oct.15, 1950. 14 M744 French leases.
- 17641 FOSSATI, A. Land transformations in the XVIII century and first trends toward an improvement of cultivated property. (In Italian.) *Cron. Econ.* 89:7-9. Sept.15, 1950. 280.8 C882 Tenure in Italy.
- 17642 GENNARI, G. Agrarian unrest in Fucino. (In Italian.) *Agr. Ital.* 1:455-463, 468. Sept.15, 1950. 16 Ag822 Problems of land tenure and reclamation.
- 17643 GIESECKE, F. Flurbereinigung—nunmehr ein bodenkundliches problem. *Deut. Landwirt. Presse* 73(19):7. Sept.9, 1950. 18 D482
- 17644 GIORGI, G. Agrarian reform legislation in western Germany. (In Italian.) *Agr. Ital.* 1:559-562. Nov.1, 1950. 16 Ag822
- 17645 GÓMEZ G., P. Algunas ideas sobre lo que puede ser la futura comunidad agrícola panameña. *Rev. de Agr., Com. e Indus. [Panama]* 8(108/109):27-29. Aug./Sept.1950. 8 R3291 Land reform and settlement.
- 17646 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. COMMITTEE ON AGRICULTURAL VALUATION. Second report. London, 1950. 11 p. 282.9 G796 Farm tenancy and tenant-right valuations.
- 17647 GREENWOOD, G. A. Great scandal of leasehold system. *Co-op. News [Manchester]* (n.s.) 1647:10. Nov.25, 1950. 280.28 C7897 Land rents in Great Britain.
- 17648 GRIECO, R. Introduction to land reform in Italy. (In Russian.) *Interagra* 4:298-299. 1950. 28 In825 English summary, p. 299.
- 17649 HENRICI. Erhöhung von pachtpreisen und preisstop. *Hannoversche Land- u. Forstwirt. Ztg.* 103:757-758. Aug.26, 1950. 18 H194
- 17650 HERMANN. Die flurbereinigung. *Landwirt. Informdienst.* 1950(6/7):6. 18 L2312 Germany.



- 17651 HEYER, P. Die feldbereinigung—eine möglichkeit zur intensivierung des obstbaues. Gartenjahr 5: 69-70. May 1950. 80 G1932  
Germany.
- 17652 HOLLAND, F. G. Public rights of way [Great Britain]. II. Country Landowner 1:183-186. Oct. 1950. 10 C836
- 17653 HOLLJE-LÜERSEN. Um den pachtzins für das wirtschaftsjahr 1950/51. Landwirtsch. Weser-Ems 97: 944. Nov. 9, 1950. 18 L2345
- 17654 HUURMAN, D. Marginal notes on the lease bill. (In Dutch.) Pacht 10:240-245. Aug. 1950. 282.8 P11  
Netherlands.
- 17655 JOELSON, J. L'agriculture chinoise peut-elle être modernisée? II. Agence France - Presse. Inform. et Doc. 317:24-28. Nov. 11, 1950. 280.9 Ag3  
Land tenure and agrarian reform.
- 17656 KAZANTSEV, N. D. Land reforms and ways of changing the agricultural economy in the countries of people's democracy in central and south-eastern Europe. (In Russian.) Akad. Nauk SSSR. Otd. Ekon. i Prava. Izv. 1950:252-268. July/Aug. 1950. 280.9 Ak1
- 17657 KOLLMEYER, A. Sammlung von entscheidungen agrarrechtlichen inhalts, v. I. Münster, Aschen-dorffsche Verlagshandlung, 1949. 208 p. (Aschen-dorffs Juristische Handbücherei, Bd. 19) 30.5 K83  
Includes land tenure.
- 17658 MARIANI, M. The law on agricultural leases against democratic liberty. (In Italian.) Piacenza Agr. 6 (8):4. Apr. 20, 1950. 281.8 P57
- 17659 MARIANI, M. Rights and interests of farmers reconcilable with private property. (In Italian.) Piacenza Agr. 6(9):5. May 10, 1950. 281.8 P57  
Italian lease law.
- 17660 MAZZOCCHI-ALEMANNI, N. Reclamation and reform: towards a synthesis. (In Italian.) (Extr.) Agr. Ital. 1:486. Oct. 1, 1950. 16 Ag822
- 17661 MEDICI, G. The expropriation law in the reform is above all against the century of the latifundia. (In Italian.) Gior. di Agr. 60:318. Oct. 8, 1950. 16 It1G
- 17662 MOORE, C. H. Farm leases—an important factor in expanding livestock production. Fed. Reserve Bank Dallas. Mon. Business Rev. 35:145-151. Sept. 1, 1950. 284.8 F31D
- 17663 MORI, G. An important agreement among owners with rented lands and operating tenants. (In Italian.) Agr. Moden. 6(16):4. Nov. 15, 1950. 16 Ag8255
- 17664 NISSEN, M. Owner or tenant. (In Danish.) Dansk Landbr. 69:448-449. Aug. 31, 1950. 280.28 V91
- 17665 NUNN, A. Practical livestock share farming. Prog. Farmer, Ga.-Ala.-Fla. Ed. 65(11):16, 142. Nov. 1950. 6 P945G
- 17666 ORDOUX, L. Comment calculer le prix des fermages en 1950. Bas-Rhin Agr. 5:566. Nov. 25, 1950. 14 B29
- 17667 PAGANI, A. Considerations on the agrarian reform bills. (In Italian.) B. dell'Agr. 84(9):1. May 5, 1950. 16 B87  
Italy.
- 17668 PAGANI, A. The small holding in agriculture. (In Italian.) Rinascita Agr. 5(10):1. Mar. 15, 1950. 281.8 R47  
Italy.
- 17669 PELKA, F. Trepp- und überfahrtsrechte in Württemberg. Württemb. Wchnbl. f. Landwirt. 117:884. Sept. 23, 1950. 18 W96
- 17670 PETROCCHI, C. Private waters. (In Italian.) Ital. Agr. 87:581-601. Oct. 1950. 16 It1
- 17671 PLANJE, J. P. Land use and rent. (In Dutch.) Boer en Tuinder 4(198):1. Nov. 4, 1950. 12 B632  
Netherlands.
- 17672 PLANJE, J. P. The rental basis in unimproved land and farms. (In Dutch.) Boer en Tuinder 4 (194):3. Oct. 7, 1950. 12 B632
- 17673 POSTAN, M. The manor in the Hundred Rolls. Econ. Hist. Rev. (ser. 2):119-125. 1950. 277.8 Ec7
- 17674 PRESTIANNI, N. Land reform in Sicily and types of peasant farms. (In Italian.) Agr. Ital. 1:425-428. Sept. 1, 1950. 16 Ag822
- 17675 RADFORD, J. B. D. Landownership in three districts in Yorkshire. Leeds U. Farmers' Rpt. 94, 24 p. Oct. 1950. 281.9 L51
- 17676 RAMADORO, A. Coordination between reform and reclamation. (In Italian.) (Extr.) Agr. Ital. 1:483-486. Oct. 1, 1950. 16 Ag822
- 17677 REPORTS to the congress. (In Italian.) Agr. Ital. 1:475-486. Oct. 1, 1950. 16 Ag822  
Congress on land reform held at Naples, October 8-10, 1950.
- 17678 REVIEW of the activity of the Land Chamber in regard to the Lease Resolution for the years 1942-1948. (In Dutch.) Pacht 10:245-262. Aug. 1950. 282.8 P11
- 17679 RICHTER, J. Report from Europe: Communists exploit hunger to win followers in Italy. Cotton Gln & Oil Mill Press 51(25):45-46. Dec. 9, 1950. 304.8 C822  
Discusses land reform problem.
- 17680 RONCHI, V. Agricultural land ownership. (In Italian.) Not. dell'Agr. Vicentino 4(17):1. Sept. 26, 1950. 16 N846
- 17681 ROSI, M. The movement in the distribution of large landholdings. (In Italian.) Agr. Ital. 1:419-421. Sept. 1, 1950. 16 Ag822  
English summary.
- 17682 ROSI, M. The structure of the table for determining expropriations. (In Italian.) Agr. Ital. 1: 464-468. Sept. 15, 1950. 16 Ag822
- 17683 SANTOS PASTOR, A. Nueva reforma sobre el derecho de retracto legal arrendaticio. Ceres [Valladolid] 14(172):33. Oct. 1, 1950. 15 C33  
Spain.
- 17684 SCHIETHART, L. J. The preliminary tenant law draft. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 61:336-342. Aug. 1950. 12 N282
- 17685 SCOTLAND. STANDING COMMITTEE. Residual values of fertilizers and feeding stuffs, second report (1950). Scot. Dept. Agr. Adv. L. (n.s.) 17, 8 p. 1950. 10 Sco82L
- 17686 SEGNI. Functions of science and technology in the application of the agrarian reform. (In Italian.) Agr. Ital. 1:436-438. Sept. 15, 1950. 16 Ag822
- 17687 STREET, A. G. Landlord and tenant; to-day tenant-farming has become practically a closed shop. Field 196:587. Oct. 7, 1950. 10 F45  
England.
- 17688 TIMMONS, J. F., and ARTHUR, I. W. How to get improvements on a rented farm. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:72-73. Nov. 1950. 275.28 Io94
- 17689 VIERI, F. Compromise. (In Italian.) Terra [Firenze] 61(43):1. Oct. 22, 1950. 16 T274  
Expropriation under the land reform.
- 17690 WESTENHOFF. Unzumutbare zweckentfremdung von wohnraum ist rechtswidrig. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1346. Sept. 23, 1950. 18 L2346  
Farm rental problem.

#### Land Utilization

- 17691 COMBS, L. R. "I'd quit farming if I had to go back to the old way"; so states Henry Nerison after using a land capability map to help plan farm operations. Hoard's Dairyman 95:770-771. Nov. 10, 1950. 44.8 H65  
Land classification.
- 17692 KYI, M. T. Changes in agricultural land utilization in Hampshire County, Massachusetts. Clark U. Abs. Diss. & Theses 22:15-18. 1950. 241.8 C54
- 17693 MAJEED, A. A. Land use in the town of Berlin, Worcester County, Massachusetts. Clark U. Abs. Diss. & Theses 22:89-92. 1950. 241.8 C54
- 17694 MASON, J. E., and FORSTER, G. W. Inventory of land use in North Carolina with special reference to public land areas. N. C. Agr. Expt. Sta. Tech. B. 93, 42 p. Nov. 1950. 100 N81
- 17695 NICHOLS, N., JR. Land utilization on Cucamonga Alluvial Fan, California. Clark U. Abs. Diss. & Theses 22:92-94. 1950. 241.8 C54
- 17696 RAAB, J. Betriebsgrösse und kulturarten. Bayern in Zahlen 4:438-440. Sept. 1950. 265 B34  
Land utilization.
- 17697 RHYS, J. P. Green belts and development charge. Real Estate J. (n.s.) 1:161-163. Nov. 1950. 282.8 R22
- 17698 STREET, A. G. Land for food, and land for housing. Farmers Wk. [London] 33(18):45. Nov. 3, 1950. 10 F2226  
Suggests that new town be built in marginal areas in Britain.



- 17699 WENDT, P. F. A reply from England on the effects of the British Town and Country Planning Act, 1947. *Land Econ.* 26:397-400. Nov.1950. 282.8 J82
- 17700 WILLNER, G. Zur einheitbewertung der marsch- und moorböden. *Landwirtsch. Weser-Ems* 97: 812-813. Sept.28,1950. 18 L2345

#### Land Values and Valuation

- 17701 DUGGAN, I. W. Farm land inflation—a threat to the family farm. *Grain Prod. News* 3(6):3,18. Nov. 1950. 286.81 G764
- Also in *News Farmer Coop.* 17(8):4. Nov.1950. 166.2 N47
- 17702 JONG, S. H. DE. On the capitalization basis of unimproved land and farms. (In Dutch.) *Pacht* 10:226-239. Aug.1950. 282.8 P11
- Valuation.
- 17703 LO BIANCO, G. Principal methods and opinions of appraisal. (In Italian.) *Riv. del Catasto e dei Serv. Tec. Erariali* (n.s.)5:42-48. 1950. 280.8 R523
- Includes land.
- 17704 MURRAY, J. F. N. The valuer in Australia. *Roy. Inst. Chartered Surveyors* 30:462-464. Nov.1950. 282.9 C38J
- Land appraisal.

#### POPULATION

- 17705 BRAUNEIS, L. Landflucht vor 200 jahren. *Osterr. Bauernbündler* 6(41):5. Oct.14,1950. 19 Os7
- 17706 EL SALVADOR. DIRECCIÓN GENERAL DE ESTADÍSTICA. Anuario estadístico de la República de El Salvador correspondiente al año de 1948; tomo I (sección demográfica y judicial). San Salvador, 1950. 305 p. 254 Sa52
- Includes rural population.
- 17707 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Data on urban and rural population in recent censuses. United Nations. Sec. Dept. Social Aff. Population Div. *Population Studies* 8, 27 p. July 1950. 251 Un357P
- Population Division of the Department of Social Affairs and Statistical Office of the United Nations cooperating.
- 17708 HENNESSY, W. A. Vital work for rural Ireland. *Landmark* 7(2):2-3. Feb.1950. 281.28 L23
- Checking of the rural exodus.
- 17709 HOUT, F. VAN. An important problem. Against the flight from the land, attachment to the soil through agricultural and horticultural instruction. (In Flemish.) *Cult. en Handel* 16:624-628. Oct.1950. 80 C892
- 17710 JUNGFLIECH, M. Le ver de la feuille et la demographie rurale egyptienne. *Egypte Agr.* 48:81-89. July/Aug.1950. 24 Un32
- Population and shortage of agricultural labor as a cause of increase in Prodenia attacks.
- 17711 MOORAHREND. Zunehmende flucht aus der landarbeit. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1408. Oct.12,1950. 18 L2346
- 17712 PEATTIE, R. Are you a Malthusian? A review and a bibliography of recent readings. *J. Geog.* 49:365-375. Dec.1950. 278.8 J82
- 17713 PEDERSEN, H. A. Better balance seen as result of rural migration. *Miss. Farm Res.* [Miss. Sta.] 13(10):6. Oct.1950. 100 M69Mi
- 17714 PENA, M. T. DE LA. Problèmes démographiques et agraires du Mexique. *Soc. Belge d'Etudes et d'Expansion. B. Bimest.* 49:657-661. Aug./Oct.1950. 280.8 So17
- 17715 RHIJN, A. A. VAN. Emigration. (In Dutch.) *Boer en Tuinder* 4(199):3. Nov.11,1950. 12 B632
- Emigration of agricultural population to other countries.

#### RURAL SOCIAL ORGANIZATION

- 17716 BUTZ, E. L. Social sciences in the modern economy. In U. S. Agricultural Research Admin. *Marketing margins and efficiency*, p.163-172. Washington, 1950. 1.98 M343
- 17717 GAUTIER-WALTER, A. L'application des lois sociales agricoles nécessite la coopération active des ruraux. *Monit. Agr.* 3(135):5. Nov.12,1950. 14 M744
- France.

- 17718 HUMAN relations in agriculture and farm life; the status of rural sociology in the land-grant colleges. *Chicago, Farm Found.*, 1950. 51 p. 281.2 H88

- 17719 KABERRY, P. The anthropological approach to rural problems in small scale societies. *Rur. Life Conf. Rpt.* 1950:7-9. 281.29 R884

- 17720 LAYCOCK, G. Iowa, the home of corn and hogs and the complex person, the average American. *Farm Q.* 5(4):22-28,109-113. Winter 1951. 6 F22995

- 17721 RURAL LIFE CONFERENCE. The science of human relationships; report of a conference held at High Leigh, Hoddesdon, Herts. by the Institute of Rural Life Life at Home and Overseas, January 1950. London, 1950. 15 p. 281.29 R884

- 17722 VIDART, D. Esquema de una sociologia rural uruguaya. XIV-XVIII. Uruguay. Min. de Ganad. y Agr. B. Inform. 337:16;338:10;339:10;340:17;341:6. Sept.6-Oct.5,1950. 9.9 G15B

#### Human Ecology

- 17723 BONHAM-CARTER, V. Idealism and common sense. *Farmers Wk.* [London] 33(17):57,59. Oct.27, 1950. 10 F2226

- Planning for the development of the English village.

- 17724 CLARENBACH, F. A. Curricula in city and regional planning at the University of Wisconsin. *Land Econ.* 26:394-397. Nov.1950. 282.8 J82

- 17725 DUMONT, R. Un village de Flandre orientale et ses fermes "satellites." *Libération Paysanne* 7(288): 6. (Cont.) Nov.16,1950. 14 L61

- 17726 EGOROV, I. On the enlarged Pobeda Collective Farm. (In Russian.) *Sel'sk. Stroitel'* 5(4):3. July/Aug.1950. 296.28 Se4

- Planning the construction of villages.

- 17727 ISLEY, F. E. A community steps through the looking glass; the Richfield Springs experiment offers a pattern for better rural living. *Dairymen's League News* 34(24):9,15. (Concl.) Nov.28,1950. 44.8 D1432

- 17728 KIDD, R. A. Rural planning. *Roy. Sanit. Inst. J.* 70:631-638. Nov.1950. 449.9 R312

- Communities in Great Britain.
- 17729 POTTS, J. W. Rural neighborhood contest sparks revival. *East Tex.* 25(3):8,16. Dec.1950. 6 Ea73

- 17730 ROACH, T. E. Valley development by private enterprise. *Elect. West.* 105(5):61-63. Nov.1950. 335.8 J82

- Snake River Valley.
- 17731 SELLERS, K. Life of the Flats. Ill. Agr. Assoc. Rec. 28(11):20-22. Nov.1950. 6 IL62

- Flatville Community in central Illinois.
- 17732 SHEA, J. P. The human ecology approach to problems in conservation and agriculture development. (Abs.) *Ecol. Soc. Amer. B.* 31:55. Sept.1950. 410.9 Ec7

#### Institutions

- 17733 ALVAREZ, J., and IGLESIAS, A. Nuestro colegio. *Agrotecnia* 4:20-31. July/Aug.1950. 8 Ag825
- Colegio Nacional de Ingenieros Agrónomos y Azucareiros in Cuba.

- 17734 ALVAREZ MERINO, M. La agricultura y la escuela. *Agr. Burgales* 17(190):3-5. Oct.1950. 15 Ag86

- 17735 ARKANSAS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Life on Arkansas farms; annual report, 1949. *Ark. Agr. Col. Ext. C.* 468, 23 p. Dec.1949. 275.29 Ar4

- 17736 ARKEMA, P. W. B. The annual agricultural fairs in Europe. (In Dutch.) *Nieuwe Veldbode* 17:40-42. Oct.19,1950. 12 V542N

- 17737 BARRAU, J. Le College d'Agriculture de Gaton, au Queensland. *Rev. Agr. de la Nouvelle-Calédonie* (n.s.)1:9-10. Jan./Feb.1950. 25 R322

- 17738 BAYER-EYNCK, G. 1000 jungbäuerinnen besuchen im kommenden winter die mädchenabteilungen der landwirtschaftsschulen. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1388-1389. Oct.5,1950. 18 L2346

- 17739 BELLOMO, J. P. Motivos de la montaña: el señalamiento. *Pampa Argentina* 23(274):7,30. Sept. 1950. 9 P19

- Rituals in connection with goats.

- 17740 BENNETT, H. G. Agricultural fairs—then and now. *Fairs & Expositions* 2(18):3-8. Aug.1950. 310.8 F16



- 17741 BIEHLER, J. H. Situationsgerechtes wirklichkeitsrechnen in der landwirtschaftl. berufsschule. *Nachr. f. Beratung u. Ausbild. in der Landwirt.* 3:113-114. Oct.1950. 18 N11  
Germany.
- 17742 BOORD, K. R. Self-help pays dividends. *Ext. Serv. Rev.* 21:189,197. Nov.1950. 1 Ex892Ex  
Community health services, Randolph County, W. Va.
- 17743 BRIGGS, H. M. Hunting out the facts. *Sheep & Goat Raiser* 31(2):22,24. Nov.1950. 45.8 Sh3  
History and work of land-grant institutions and experiment stations.
- 17744 BUHLE. Beginn der winterarbeit 1950/51. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1422,1427. Oct.12,1950. 18 L2346  
Vocational agriculture and education.
- 17745 CANONVILLE, R. La défense des intérêts des artisans ruraux; un exposé sur les lois sociales et fiscales, et sur les questions économiques. *Monit. de la Mécan. Rur.* 43:339-340. Oct.1950. 58.8 M74
- 17746 CARTER, R. E. A grand group of fellows. *Natl. Co. Agent & Vo-Ag Teacher* 6(11):13,30. Nov.1950. 275.28 N213  
County agents.
- 17747 CHINI, A. Professional instruction for peasants. (In Italian.) *Glor. di Agr.* 60:343. Oct.29,1950. 16 It1G  
Italy.
- 17748 DELAHAYE, G. Education féminine et apprentissage. *Fiches Rur.* 62:47-54. Oct.1950. 281.8 F44  
France.
- 17749 DRAKE, E. As an aid in teaching—use home-made slides; all ag leaders can benefit from this idea. *Better Farming Methods* 22(12):13,24-25. Dec.1950. 58.8 B46
- 17750 DUDLEY, R. Agricultural show problems. *Field* 196:536-537. Sept.30,1950. 10 F45
- 17751 DUFAURE, A. Les conditions d'une bonne formation professionnelle de nos adolescents. *Fiches Rur.* 62:39-46. Oct.1950. 281.8 F44
- 17752 DUPUIS, G. La situation actuelle de l'apprentissage dans le monde rural. *Fiches Rur.* 62:27-32. Oct.1950. 281.8 F44
- 17753 EATON, A. Art in rural life. *Town & Country Church* 65:7-9. Nov.1950. 281.28 T66
- 17754 EICHINGER, K. Landesausstellung St. Pölten 1950—Absolventenverband Pyhra. *Pflug* 3:218-219. Oct.1950. 19 P48  
Education.
- 17755 ENGELHARD, J. Pensons à instruire nos enfants de leur métier. *Paysan* 26(394):17. Oct.1950. 14 P29  
France.
- 17756 FELCOURT, E. DE. Les universités populaires en Suède et la formation culturelle des ruraux. *Agr. Prat.* 114:509-511. Nov.1950. 14 J82
- 17757 FELTON, R. A. Rock Run Church [Goshen, Ind.] develops practical christianity. *Ind. Farmers Guide* 106(20):1-2. Oct.15,1950. 6 In2
- 17758 FORDHAM, R. A. A rural church brotherhood *Town & Country Church* 65:3-4. Nov.1950. 281.28 T66
- 17759 GAPEN, K. M. Television and extension work. *Washington, U. S. D. A., Off. Inform.*, 1950. 5 p. 1.914 R2G15  
Talk at annual conference of the American Association of Agricultural College Editors, Sept. 6-9, 1950, at Mo-Ranch, Texas.
- 17760 GAYAN, C. Studies on endemic goiter in Brazil. (In Portuguese.) *Soc. Rur. Brasil. Rev.* 30(358):44-45. Ref. Sept.1950. 9.2 B733
- 17761 GEBHARD, E. W. The rural church—a fellowship of families. *Town & Country Church* 65:5-6. Nov.1950. 281.28 T66
- 17762 GILBERTSON, H. W. Educational exhibits; how to prepare and use them. *Fairs & Expositions* 2(18):20-24;(19):18-22;(20):9-11,19-23. (Concl.) Aug.-Oct.1950. 310.8 F16
- 17763 GT. BRIT. JOINT ADVISORY COMMITTEE ON AGRICULTURAL EDUCATION TO BE PROVIDED BY LOCAL EDUCATION AUTHORITIES. Interim report on the provision of part-time instruction by local education authorities for agriculturists, horticulturists and domestic producers. *London, H. M. Stationery Off.*, 1949. 53 p. 275.1 G7922I
- 17764 GREGORY, D. Here's how to keep 'em down on th' farm. *Iowa Bur. Farmer* 14(11):24-25. Nov.1950. 275.293 Iowa  
Vocational agriculture program, Eagle Grove, Iowa.
- 17765 GROVES, W. F. Who is my neighbor? *Hoard's Dairyman* 95:865. Dec.10,1950. 44.8 H65  
Democracy.
- 17766 GUARNIERI, J. C. El gaucho. *Asoc. Rur. del Uruguay. Rev.* 77(10):22-25. Oct.1950. 9.9 As5
- 17767 GUERRA, A. Capacitación de la juventud campesina. *Saragossa. Cám. Ofic. Sind. Agr. B. Mens.* 27:3-4. Aug.1950. 15 Sa7
- 17768 HALPAAP, and REISCH. Neue landwirtschaftsschulen: planungsgrundsätze für den bau von landwirtschaftsschulen. *Nachr. f. Beratung u. Ausbild. in der Landwirt.* 3:109-113. Oct.1950. 18 N11  
Germany.
- 17769 HAMLIN, H. M. Students can share. *Agr. Educ. Mag.* 23:111,115. Nov.1950. 275.8 Ag8  
Objectives of agricultural education.
- 17770 HARRIS, R. O. Individual instruction. *Agr. Educ. Mag.* 23:112. Nov.1950. 275.8 Ag8
- 17771 HOLLAND, C. A. The farmer and the Extension Service. *Tasmanian J. Agr.* 21:222-224. Aug.1950. 23 T182T
- 17772 HOOGLAND, E. J. A. Impressions of the Agricultural Industries Fair 1950. II-III. (In Dutch.) *Gelders Landbbl.* 13(37):6;(38):6. Sept.23-30,1950. 12 G282
- 17773 HUGHES, D. Got a problem? Just ask for an Extension bulletin. *Wis. Country Mag.* 44:8-9. Oct.1950. 276.8 S19
- 17774 INDUSTRY in the mountains—Lithgow. *Rur. Bank N. S. Wales. Trends: Agr. Indus. Com.* 1(9):1-7. Sept.1950. 280.9 R882
- 17775 JOBSON, A. The village shoemaker. *Country Life [London]* 108:1423,1425. Oct.27,1950. 80 C83
- 17776 JOHNSTON, H. L. Rural health cooperatives. *U. S. Farm Credit Admin. B.* 60,93 p. Ref. June 1950. 166.2 B87  
U. S. Public Health Service cooperating.
- 17777 JONES, C. W., and GIBSON, H. B. Games for 4-H and Utopia Clubs. *Ky. Agr. Col. Ext.* 4-H 1148,35 p. Mar.1950. 275.29 K415Fh
- 17778 JONES, W. W. Review of secondary agricultural education in New South Wales. *Austral. Inst. Agr. Sci. J.* 16:53-58. June 1950. 23 Au74
- 17779 KEIM, J. F. We eagerly await their return. *Ext. Serv. Rev.* 21:192-193. Nov.1950. 1 Ex892Ex  
German rural youth selected for a year of living on American farms.
- 17780 KIRCHER, W. H. Home grown hospitals. *Farmer [St. Paul] Gen. Ed.* 68(20):1,20-21. Oct.21,1950. 6 F2211  
Two community hospitals and how they were financed.
- 17781 KLINGER, D. For good health—peace of mind. *Wis. Agr. & Farmer* 77(20):7. Oct.21,1950. 6 W751  
Community hospital in Tigerton, Wisconsin.
- 17782 KNAFF, E. Note sur la propagande agricole: étude de son insensification. *B. Agr. du Congo Belge* 41:731-740. Sept.1950. 24 K83
- 17783 KUMLIEN, W. F. Community school districts in the making. *S. Dak. Agr. Expt. Sta. B.* 404,32 p. June 1950. 100 So82
- 17784 LAFOREST, G. Mauvais propos au sujet de l'enseignement de l'agriculture. *Agriculture [Paris]* 14:250. Sept.1950. 14 Ag823
- 17785 LAVROV, P. Les livres et les bibliothèques dans la campagne soviétique. *Interagra* 4:286-290. 1950. 28 In825
- 17786 LEFEVRE, A. Comment réaliser? (Conditions juridiques et financières). *Fiches Rur.* 62:55-65. Oct.1950. 281.8 F44  
Vocational agriculture in France.
- 17787 LINDSTROM, D. E. Crime comes to the country; here are some suggestions on what you can do about it. *Capper's Farmer* 61(12):11,60. Dec.1950. 6 M693
- 17788 LLOYD, J. I. The English country show. *Austral. Dairy Rev.* 18(10):13-14. Oct.2,1950. 44.8 Au7?
- 17789 LYNN, W. C. Grange exhibits: how to set up and handle them. *Fairs & Expositions* 2(17):10-11;(18):10-11. July-Aug.1950. 310.8 F16



- 17790 MCCANNON, N. Home agent has her own demonstration kitchen. *Agr. Leaders' Digest* 31(10):48-49. Nov.1950. 275.28 Am3
- 17791 MACEDO, J. N. Agricultural conscience. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 14:74. Apr./June 1950. 9.2 R325  
Agricultural education in Brazil.
- 17792 MACKAY, A. I. Fruit of the loom; agriculture is the art of kings, and weaving that of queens. *Org. Farmer* 2(3):42-45. Oct.1950. 57.8 Or3
- 17793 MARACAY, VENEZUELA. ESCUELA PRÁCTICA DE AGRICULTURA Y CENTRO DE DEMOSTRACION DEL ESTADO ARAGUA. Reglamento interno. Caracas, 1950. 24 p. 102.5 M32
- 17794 MARISELLI, J. A. Servicio de Extensión de Conservación del Suelo y de las Aguas en la Costa. *Rev. Agropecuaria del Perú* 1(2):17-20. Apr./June 1950. 9.8 R322
- 17795 MAURITIUS COLLEGE OF AGRICULTURE. Annual report for the year 1949. Port Louis, 1950. 7 p. 108 M442R
- 17796 METSON, N. K. Denman, the English country women's college. *New Zeal. J. Agr.* 81:279-280. Sept. 1950. 23 N48J
- 17797 MOORAHREND. Erziehungsbeihilfen u. sozialversicherungsbeträge für landwirtschaftl. lehrlinge. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1346. Sept.28, 1950. 18 L2346
- 17798 MOORE, R. E. Setting up for technical assistance. Washington, U. S. Off. Foreign Relat., 1950. 8 p. 1.943 M78  
Paper read before the Division of Agriculture, conference of the Association of Land-Grant Colleges and Universities, Washington, D. C., Nov. 13, 1950.  
International cooperation with particular reference to education and training.
- 17799 NAGY, N. Les conditions d'une orientation professionnelle adaptée au monde rural. *Fiches Rur.* 62:33-38. Oct.1950. 281.8 F44  
France.
- 17800 NEDVĚD, A. Nous avons visité l'école de l'agriculture socialiste. (In Russian.) *Interagra* 4:165-184. 1950. 28 In825  
Summary in French, p. 184-187.  
Czechoslovakia.
- 17801 NEW YORK STATE COLLEGE OF AGRICULTURE AND HOME ECONOMICS. Program guides for home demonstration work, 1950-1951. Ithaca, N. Y., 1950? 111 p. 321 N483
- 17802 ORIENTATION et formation professionnelle en milieu rural. *Fiches Rur.* 62,74 p. Oct.1950. 281.8 F44  
France.
- 17803 PANKOV, I. P. Higher qualifications in the preparation of specialists for agriculture. (In Russian.) *Veterinarija* 27(8):1-6. Aug.1950. 41.8 V6426
- 17804 PEARSE, R. J. Master plans for fairs. *Fairs & Expositions* 2(18):8-10; (19):8-9; (20):8-9. (Concl.) Aug.-Oct.1950. 310.8 F16
- 17805 PETILLON, G., LUCAS, P., and LECOCQ, A. L'adolescence rurale devant son avenir. *Fiches Rur.* 62:11-16. Oct.1950. 281.8 F44  
France.
- 17806 PORTER, R. H. Preach Christ and plant corn! *Town & Country Church* 65:12. Nov.1950. 281.28 T66  
Rural agricultural education in Brazil.
- 17807 PRICE, W. T. Agricultural training colleges give broader outlook on scientific farming. *Farmer & Dairyman* 43(524):12. Sept.1950. 23 F225
- 17808 PRICE, W. T. Usefulness of colleges for agriculturists. (In Italian.) *Cron. Econ.* 89:33-34. Sept.15, 1950. 280.8 C882  
Great Britain.
- 17809 RANDOLPH, H. S. Thy Kingdom come in rural America. *Town & County Church* 66:1-3. Dec.1950. 281.28 T66
- 17810 RENSHAW, B. Revitalized church; the formula is simple, you can do it! *Prairie Farmer, Gen. Ed.* 122 (23):5. Dec.2, 1950. 6 P883  
God's Acres Plan.
- 17811 ROMATIF, F. Désirs et possibilités des familles rurales en matière d'apprentissage. *Fiches Rur.* 62:3-10. Oct.1950. 281.8 F44  
Education in France.
- 17812 ROUX-DUFORT. L'instruction, gage de succès; c'est ce que prouve le paysan danois. *Agr. du Sud-Est (n.s.)* 57(18):1,3. Nov.5, 1950. 14 Ag88
- 17813 RUFIN, G. Trois années de propagande et de vulgarisation dans une D. S. A. [Direction des Services Agricoles] d'importance moyenne. France. Min. de l'Agr. B. Tech. d'Inform. 52:535-542. Sept.1950. 14 F844B
- 17814 SCHLISSLEDER, R. 75 Jahre Ackerbauschule Ritzlhof. *Oberöstr. Landwirtztg.* 22(37):1. Sept.13, 1950. 19 Ob23
- 17815 SCHOBEL, A. Die wurzeln unseres bauern-tums und unserer agrarverfassung. *Agr. Rundschau* 4:2-19. Ref. Summer 1950. 280.8 Ag82  
Historical for Austria.
- 17816 SEYMOUR, B. Thanksgiving Church did it: maybe your church could. *Prog. Farmer, Tex. Ed.* 65 (11):70,79. Nov.1950. 6 T311  
Accomplishments through the Lord's Acre Plan.
- 17817 SHARP, L. H. Kentucky home agents meet at camp to learn crafts. *Agr. Leaders' Digest* 31(10):54-55. Nov.1950. 275.28 Am3
- 17818 SIMS, J. Rural education is a continuing program. *Ind. Farmers' Guide* 106(21):8. Dec.1, 1950. 6 In2
- 17819 SNEDDEN, J. The country weekly wakes up. *Macdonald Col. J.* 11:12-13. Sept.1950. 101 M144
- 17820 STOCKBURGER, S. Hauptaufgaben der bauernschulen. *Württemb. Wchnbl. f. Landwirt.* 117:922-923. Oct.7, 1950. 18 W96
- 17821 TERCERO, R. A. En favor del progreso de la agricultura y de los campesinos. Salvador. Cons. de Gobierno Revolucionario. Sec. de Inform. Inform. de El Salvador 1(2):15,18. Sept.14, 1950. 280.9 Sa3  
Extension work.
- 17822 THOMPSON, D. W. "Self-help" rural service in the Chinese village. *Rur. Life Conf. Rpt.* 1950:10-11. 281.29 R884  
Through the Church.
- 17823 TOVAR GÓMEZ, J. La Escuela Agrícola Panamericana de Tegucigalpa (Honduras). *Rev. Nac. de Agr. [Bogotá]* 44(544):49-52. Aug.1950. 9.4 R32
- 17824 U. S. EXTENSION SERV. Brief description of extension work in rural organization and sociology, by E. J. Niederfrank. Washington, 1950. 20 p. 1.913 A5B76
- 17825 VAN CLEVE, R. The three R's and how they grew. *Ill. Agr. Assoc. Rec.* 28(11):11-13. Nov.1950. 6 IL62  
School in Taylorville Community Unit District No. 3.
- 17826 VAUGHAN, L. M. In-service training on questions of public policy. Washington, U. S. Ext. Serv., 1950. 12 p. 1.913 E2V46  
Summary of remarks before Regional Conference of Extension Workers on Public Policy Problems, Southern States, Atlanta, Dec. 6, 1950.
- 17827 VOLTA, E. DALLA. Economic situation of the artisinate in various provinces. (In Italian.) *Prov. di Varese* 21(19):1-2. Oct.15, 1950. 280.8 P946
- 17828 WEHR, J. Nürnberg ruft zur "grünen woche." *Milcherzeuger* 8:33. Sept.1950. 43.8 M592  
43.8 M592
- 17829 WEISS, J. N. Counseling and guidance; functions of the teacher of vocational agriculture. *Agr. Educ. Mag.* 23:110-111. Nov.1950. 275.8 Ag8
- 17830 WIELEN, H. G. W. VAN DER. New possibilities in the education of the Netherlands child. (In Dutch.) *Gelders Landtbl.* 13(42):3. Oct.28, 1950. 12 G282  
Also in *Overijsselsch Landtbl.* 32(1576):3. Oct.28, 1950. 12 Ov2
- 17831 WIELEN, H. G. W. VAN DER. What is the educational situation in the Netherlands? (In Dutch.) *Overijsselsch Landtbl.* 32(1573):3. Oct.7, 1950. 12 Ov2
- 17832 WITTEK, E. A. Kreislandjugendtage im september. *Landwirtbl. Weser-Ems* 97:884. Oct.19, 1950. 18 L2345
- 17833 WOODUL, P. A. Vo-ag problems. *Natl. Co. Agent & Vo-Ag Teacher* 6(11):12. Nov.1950. 275.28 N213
- 17834 YANG, H. P. Adult education in rural communities. Paris. 1950. 27 p. (United Nations Educ., Sci., and Cult. Organ. Occas. Papers Educ., 3) 275 Y1  
Includes Developing adult education programmes, by H. Kempfer.

#### Leadership

- 17835 HUNT, H. M., and AMICK, W. R. Hoosier rotary clubs aid in training 4-H adult leaders. *Agr. Leaders' Digest* 31(10):30-31. Nov.1950. 275.28 Am3
- 17836 KEIM, J. F. In western Germany. *Pa. Farmer* 143:247,271. Oct.28, 1950. 6 P383  
Rural youth leadership training.



## Rural Organizations and Movements

- 17937 ABRAHAMSEN, M. A. Business research valuable. *News Farmer Coop.* 17(9):3-4. Dec.1950. 166.2 N47  
Value of business research to the manager of a supply cooperative.
- 17938 AMARAL, L. Intensive course in cooperation. (In Portuguese.) *Soc. Rur. Brasil. Rev.* 30(358):26-28. (Cont.) Sept.1950. 9.2 B733
- 17939 ANDELSUDVALGET. Cooperative societies in Denmark in the year 1949. II. (In Danish.) *Andels-bladet* 51:1309-1316. Nov.2,1950. 280.28 An2
- 17940 ANDREWS, S. Cooperatives as builders of democracy. *News Farmer Coop.* 17(8):12-14. Nov.1950. 166.2 N47
- 17941 ASOCIACION RURAL DEL URUGUAY. JUNTA DIRECTIVA. Memoria ejercicio 1949-1950. *Asoc. Rur. del Uruguay. Rev.* 77(9):45-72. Sept.1950. 9.9 As5
- 17942 BOYLES, S. M. Farm Bureau spreads democracy. *Nation's Agr.* 26:6,9,17. Jan.1951. 280.82 B89
- 17943 BUTLER, K. D. The American Institute of Cooperation. *Town & Country Church* 65:14-15. Nov. 1950. 281.28 T66
- 17944 CANDIOLI, P. Dell'organizzazione con particolare riguardo al settore agricolo [Organization with special reference to agriculture]. Verona, Bettinelli, 1949. 15 p. 33.19 C162D
- 17945 CHARBONNEAU, A. La coopération agricole dans le District de Joliette 1940-1950. *Ensemble!* 11 (8):29-32. Oct.1950. 280.28 En7
- 17946 CHENEY, L. A. A functioning county agricultural council unites professional workers in agriculture for efficient service to farm people. *Agr. Educ. Mag.* 23: 108-109. Nov.1950. 275.8 Ag8  
Michigan.
- 17947 CHILE. DIRECCIÓN GENERAL DE AGRICULTURA. DEPT. DE EXTENSIÓN AGRÍCOLA. Los clubs infantiles agrícolas 4-C, manual sobre sus fines, organización y funcionamiento. Santiago de Chile? 1950. 48 p. 275.24 C43
- 17948 COUNTRY LANDOWNERS' ASSOCIATION. Forty-third annual statement of accounts for the year ended 31st December, 1949. London, 1950. 6 p. 282.9 C832
- 17949 DELACROIX, C. A year's progress in rural youth. *Nation's Agr.* 26:14,17,19. Jan.1951. 280.82 B89  
Farm Bureau Rural Youth.
- 17950 ELLIS, H. Link between agricultural organizations. *Primary Prod.* [Cape Town] 26(40):19. Oct.20, 1950. 281.8 P93
- 17951 FARCY, H. DE. A propos de la semaine sociale (Nantes—juillet 1950) et de l'assemblée de la Confédération Européenne de l'Agriculture (Strasbourg—septembre 1950). *Agro d'Angers* 28:182-186. Nov.1950. 105.3 An4
- 17952 FIJI. REGISTRAR OF CO-OPERATIVE SOCIETIES. Annual report for the year 1949. Suva, 1950. 17 p. 280.29 F47
- 17953 FONTANILLE, H. De quelques "déviation" et "désaffections" en matière de coopératives agricoles. *Algérie Agr. et Vitic.* 28(1134):1. Sept.9,1950. 24 AL37
- 17954 FRIETEMA, H. J. Koöperaasje yn Fryslân en Nederlân [Cooperation in Friesland and Netherlands]. *Fryske Lânboubiblíteek* 13,123 p. Ref. 1950. 13 F94
- 17955 FUENTES, C. La cooperación agrícola española en 1949. *Cooperación [Madrid]* 103:10-11. Sept.1950. 280.28 C7875
- 17956 GERBER, A. L'union des coopératives de la Suisse Orientale: V. O. L. G. [Verband Ostschweizer Landwirtschaftlicher Genossenschaften]. *France. Min. de l'Agr. B. Tech. d'Inform.* 53:647-653. Oct.1950. 14 F844B
- 17957 GOLZ, A. Die bauerin findet entspannung und belehrung durch den landfrauenverein. *Bad. Landwirt. Wchnbl.* 117:687. Oct.7,1950. 18 B142
- 17958 GOMES, P. Production cooperatives. (In Portuguese.) *Divulg. Coop.* 11:13-14. Sept.1950. 280.28 R47
- 17959 GRIMLEY, O. B. Agricultural co-operatives in Norway. Oslo, Co-op. Union and Wholesale Soc., 1950. 94 p. 280.2 G88
- 17860 GUSTAFSON, P. 4-H is our best salesman abroad; not even the Iron Curtain is proof against democratic ideas which 18,000 Austrian club members. *Country Gent.* 120(11):23,67-68,70-71. Nov.1950. 6 C833
- 17861 HEINIG, P. Das landwirtschaftliche genossenschaftswesen in Schweden. *Württemb. Wchnbl. f. Landwirt.* 117:886. Sept.23,1950. 18 W96
- 17862 HOERNLE, E. Gesellschaftliche hilfe für die bäuerliche wirtschaft. *Deut. Landwirt.-Gesell. Arb. (n.s.)* 6:3-28. June 1949. 18 D48  
Deutsche Landwirtschafts-Gesellschaft.
- 17863 JOHNSON, E. J. Farmer cooperatives given emphasis in workshop series. *Agr. Educ. Mag.* 23:104-105. Nov.1950. 275.8 Ag8
- 17864 KANSAS. STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE. Kansas 4-H Club opportunities. *Kans. State Col. Agr. Ext. L.* 6,6 p.-folder. June 1950. 275.29 K13Le
- 17865 KLINE, A. B. The challenge of 1951. *Nation's Agr.* 26:5. Jan.1951. 280.82 B89  
American Farm Bureau Federation.
- 17866 KNAPP, J. G. Cooperation is business. *Grain Prod. News* 3(6):14-15. Nov.1950. 286.81 G764  
Also in *News Farmer Coop.* 17(8):3-4. Nov.1950. 166.2 N47
- 17867 KNAPP, J. G. Managers speak on cooperatives and other businesses. *News Farmer Coop.* 17(9):11,19-20. Dec.1950. 166.2 N47
- 17868 LAMB, E. C. Can farm co-ops get too big? (Condensed.) *Farm Policy Forum* 3(12):13-14. Dec. 1950. 281.8 F2274
- 17869 LANE, L. Report from Copenhagen; nearly 200 American women joined delegates from 22 nations at the conference of the Associated Country Women of the World to discuss rural women's job in preserving peace. *Country Gent.* 120(11):121,127. Nov.1950. 6 C833
- 17870 LUZ FILHO, F. More on cooperative education. (In Portuguese.) *Seleç. Agr.* 5(53):33-34. Sept. 1950. 9.2 Se4  
Brazil.
- 17871 MCFADDEN, A. J. Report on meetings of International Federation of Agricultural Producers. (Excerpts.) *Nulaid News* 28(5):6-7. Oct.1950. 47.8 N917
- 17872 MIREAULT, G. Où en est notre organisation professionnelle agricole. *Rev. d'Oka.* 24:171-189. Sept./Oct.1950. 7 Ok1  
Canada.
- 17873 NIESNER, W. Agricultural co-ops in Austria. *News Farmer Coop.* 17(9):5-6. Dec.1950. 166.2 N47
- 17874 ORDOUX, L. Du rôle des commissaires aux comptes dans la gestion des coopératives. *Bas-Rhin Agr.* 5:558. Nov.18,1950. 14 B29
- 17875 PARNAS, J. La science au service du mouvement de la coopération agricole de production. (Sum.) *Interagra* 4:293-294. 1950. 28 In825  
Poland.
- 17876 PREUSS, W. Cooperative enterprise in Israel and its capacity to absorb new immigrants. II. *Pioneer* 1(10):10-12,31. Aug./Sept.1950. 282.28 P65
- 17877 ROE, A. J. The countrywoman; highlights of the Sixth Triennial Conference of the A. C. W. W. held in Denmark. *Country Guide* 69(10):71,84. Oct.1950. 7 G76
- 17878 SAMPLE, G. W. Together we can. *Hoosier Farmer* 35(12):6-7. Dec.1950. 280.82 H76  
Indiana Farm Bureau.
- 17879 SCHENCK, H. E. Progress report to Farm Bureau members. (Condensed.) *Hoosier Farmer* 35(12): 9-12. Dec.1950. 280.82 H76  
Indiana Farm Bureau.
- 17880 SCHUMY, V. Die bedeutung der genossenschaftlichen gemeinschaftsarbeit im neuen Europa. *Bas-Rhin Agr.* 5:471. (Cont.) Sept.30,1950. 14 B29
- 17881 SCHUMY, V. Zweck, aufgabenkreis und grenzen der landwirtschaftl. genossenschaften. *Bas-Rhin Agr.* 5:557. (To be cont.) Nov.18,1950. 14 B29
- 17882 SEIFER, A. Die grenze der genossenschaftlichen leistung. *Bad. Landwirt. Wchnbl.* 117:525-526. Aug.5,1950. 18 B142
- 17883 SÉRANDOUR, P. Le splendide isolement paysan. *Monit. Agr.* 3(134):1,3. Nov.5,1950. 14 M744  
Organization in France.
- 17884 SMITH, L. P. F. Scandinavian co-operation. *Agr. Ireland* 7:256-258. Nov.1950. 10.5 Ag8



- 17885 SOCIEDAD NACIONAL AGRARIA. Memoria, año social 1949-50. Vida Agr. [Lima] 27:695,697-700. (Cont.) Aug.1950. 9.8 V66  
Peru.
- 17886 TAYLOR, M. H. Farm cooperatives in Utah; a directory. Utah. State Agr. Col. Ext. M. S. 483, rev., 17 p. Apr.1950. 275.29 U1M5
- 17887 TIPTON, B. Better international understanding through young farmers' eyes. Acco Press 28(11):2-7,12. Nov.1950. 6 Ac2  
Impressions of two young farmers of the exchange plan between the Future Farmers of America and the National Federation of Young Farmers' Clubs of England and Wales.
- 17888 U. S. EXTENSION SERV. Some early principles guiding the establishment of 4-H Club work, by E. W. Aiton. Washington, 1950. 2 p. 1.913 F3So57
- 17889 U. S. EXTENSION SERV. Tentative suggestions for a 4-H money management program. Washington, 1950. 3 p. 1.913 F3T26
- 17890 VERBAND OSTSCHWEIZERISCHER LANDWIRTSCHAFTLICHER GENOSSENSCHAFTEN. 63. jahresbericht umfassend den zeitraum vom 1. januar bis 31. dezember 1949. Winterthur, 1950. 51 p. 280.29 V58J
- 17891 WANSTALL, G. More members do more business through fewer co-ops. News Farmer Coop. 17 (8):10-11. Nov.1950. 166.2 N47
- 17892 WARREN, G. L. What our 4-H achievements represent. Ext. Serv. Rev. 21:188,197. Nov.1950. 1 Ex892Ex
- 17893 WHITEHEAD, P. L. Rural scouting. Ohio Farm Bur. News 30(4):12-13. Nov.1950. 6 Oh34  
Value of the Boy Scout Movement in America.
- 17894 WIDUTIS, F. The co-op way. Survey 86:494-495. Nov.1950. 280.8 C37
- 17895 WINKLER. Arbeitsgemeinschaften und klubs junger agronomen. Deut. Landwirt.-Gesell. Mitt. 3:293-294. Aug.1950. 18 D48M1  
Russian zone of Germany.
- RURAL SOCIAL PSYCHOLOGY**
- 17896 LARSON, N. M. Your school age child. Mass. U. Agr. Ext. L. 252,12 p. July 1950. 275.29 M38IL
- 17897 VIEIRA, F. M. Mental hygiene in the rural zone. (In Portuguese.) Soc. Rur. Brasil. Rev. 30(358): 46-48. Sept.1950. 9.2 B733
- 17898 WILLIS, P. S. The young farmer speaks up. Skagit Co-op Dairyman 28(3):9,22. (To be cont.) Nov. 1950. 280.28 Sk1  
Attitudes on agricultural problems.
- TRADE, FOREIGN AND INTERNATIONAL**
- 17899 ARGUELLES, J. Considérations sur le commerce extérieur de l'Espagne. Soc. Belge d'Études et d'Expansion. B. Bimest. 49:589-593. Aug./Oct.1950. 280.8 So17
- 17900 BANCO CENTRAL DEL ECUADOR. El índice de conversión mecánica de las estadísticas de importación del Ecuador, by C. Procaccia. Quito, 1949. 110 p. 286 B222
- 17901 BIKKER, F. Export of bacon. (In Dutch.) Netherlands. Landbooorlichtingsdienst. Maandbl. 7:343-347. Aug.1950. 12 N383M
- 17902 BOM, L. A. The export of draft horses. (In Dutch.) Netherlands Landbooorlichtingsdienst. Maandbl. 7:401-402. Sept.1950. 12 N383M
- 17903 DAY, G. H. Venezuelan outlook for dairy imports. (Condensed.) DPMA News 11:8-10. Oct.1950. 280.28 D144
- 17904 DREW, F. U.K. canned food importers have problems. West. Canner & Packer 41(12):6. Nov.1950. 286.83 W522
- 17905 DYKES, G. M. South Africa's growing markets in Britain: our £5,000,000 deciduous fruit export industry. Food Indus. So. Africa 3(7):27-29. Nov.1950. 389.8 F7372
- 17906 FINLAND. STATISTISKA CENTRALBYRÅN. Ia ulkomaankauppa vuosijulkaisu, 69, 1949; Commerce extérieur, 1949. Helsinki, 1950. 212 p. 267.5 B47H
- 17907 FONDARD, L. Vers un contrôle des marchés mondiaux. Réveil Agr. 59:291. Oct.1,1950. 14 R322
- 17908 FONTANILLE, H. Le commerce extérieur de l'Algérie en 1949. Algérie Agr. et Vitic. 28(1136):1. Oct.7,1950. 24 AL37
- 17909 FRANCE. DIRECTION DE LA DOCUMENTATION. Le commerce extérieur de la France. 1. France. Dir. de la Doc. Notes et Études Doc. 1382,65 p. Sept.25, 1950. 280.9 F843
- 17910 GEISS, H. Integration, die europäische frage. Ernährungsdienst 5(131,sup.):9-10. Nov.14,1950. 389.8 Er62  
Trade.
- 17911 HENRIKSEN, P. K. Possibilities for increased sale of dairy products in countries overseas. (In Danish.) Andelsbladet 51:1281-1285. Oct.26,1950. 280.28 An2  
For Denmark.
- 17912 HUGHES, E. Genf-vom amerikanischen standpunkt. Ernährungsdienst 5(131,sup.):7-8. Nov.14, 1950. 389.8 Er62  
Grain trade.
- 17913 JACOBSEN, A. P. Possibilities for a European market arrangement of agricultural products. (In Danish.) Dansk Landbr. 69:500-502. Oct.5,1950. 280.28 V91
- 17914 JAPAN SYNTHETIC TEXTILE ASSOCIATION. Guide to Japan's exports; rayon. Tokyo, Foreign Trade Press, 1949. 66 p. (Export Libr. 47) 304 J272
- 17915 JONG, J. J. DE. Propaganda abroad. (In Dutch.) Zaaibelangen 4:441-442. Aug.15,1950. 61.8 Z1  
For Dutch farm products.
- 17916 KLIJNHOUT, C. C. Benelux and agriculture. (In Dutch.) Plattelands-Post 6(41):1. Oct.21,1950. 12 P69
- 17917 KNOLL, F. Für ein einheitliches zollsystem; die bedeutung der internationalen zollverhandlungen für die deutsche landwirtschaft. Hannoversche Land- u. Forstwirt. Ztg. 103:864. Sept.30,1950. 18 H194
- 17918 KNÜPPEL, W. Liberalisierung und neugestaltung des deutschen zolltarifs. Kautschuk u. Gummi 3: 265-266. Aug.1950. 305.8 K162
- 17919 LA ROSA, C. The brilliant upswing of exports of Italian agricultural products in the world. (In Italian.) Agr. Ital. 1:403-412. Sept.1,1950. 16 Ag822  
English summary.
- 17920 LEPIDI, J. Les produits agricoles dans les exportations tunisiennes. B. Econ. et Social de la Tunisie 43:13-16. Aug.1950. 280.8 B874
- 17921 LISCHECK, H. Ost-west verkehr, lage und aussichten. Ernährungsdienst 5(131,sup.):8-9. Nov.14, 1950. 389.8 Er62  
European trade.
- 17922 MAIER-BODE. Landwirtschaft und export. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1267. Sept.14,1950. 18 L2346
- 17923 MALAYA. DEPT. OF STATISTICS. Average prices, declared trade values, exchange and currency, volume and average values of imports and exports, market prices, and cost of living for the year 1949. Singapore, 1950. 50 p. 269.6 St83M
- 17924 MIGLIORINI, U. Olive oil in the coming Torquay treaties. (In Italian.) Olivicoltura 5(8):4-6. Aug. 1950. 80 OL42
- 17925 MOLANO CAMPUZANO, J. La soya, nutrición, y divisas. Rev. Agr. y Ganad. 12(127):3-4. Aug.1950. 9.4 R327  
Colombia.
- 17926 MOULE, G. R. Wool and world trade. Queensland Agr. J. 71:164-168. Sept.1950. 23 Q33
- 17927 MUIR, R., and PEARCE, E. T. S. British Commonwealth sugar discussions, London, November/December, 1949. n.p., 1949. 5 p. 286.365 M89
- 17928 NEUMANN, K. Pflanzkartoffelexport 1949/50. Kartoffelwirtschaft 3:371-372. Sept.15,1950. 286.83 K14  
Germany.
- 17929 OELREICH, C. E. VON. Sweden's trade with the dollar countries during the last year. (In Swedish.) Sweden. Kommerskol. Kom. Meddel. 37:621-630. Sept. 1950. 257.3 K932K
- 17930 OVERGAARD, S. Attitude of the dairy industry to the problems of to-day. (In Danish.) Dansk Landbr. 69:499-500. Oct. 5,1950. 280.28 V91  
Chiefly on prices of dairy products to be exported to England.



- 17931 PAGANI, F. Good reports at high price. (In Italian.) *Agr. Bresciana* 3(43):1. Oct.25,1950. 16 Ag89 Trade.
- 17932 PAGANI, F. Swine continuing "in temporary." (In Italian.) *Agr. Bresciana* 3(45):1. Nov.8,1950. 16 Ag89 Trade restrictions.
- 17933 PARRY, R. O. German seed trade is interested in S. A. Primary Prod. [Sydney] 26(36):15. Sept.22,1950. 281.8 P93
- 17934 PEYRONNET, R. Nos exportations et nos importations de vins. *Rev. Agr. de l'Afrique du Nord* 48: 603-606,618-620. Aug.11-18,1950. 80 R326
- 17935 PORTER, A. M. Foreign trade in nursery stock. *Amer. Assoc. Nurserymen Proc.* 75:81-84. 1950. 81 Am3P
- 17936 POWELL, K. A. Barley export markets. Canada. *Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg.* 16:51-52. 1949. 59.9 C169
- 17937 REMPT, J. D. What opportunities does France offer? (In Dutch.) *Groenten en Fruit* 6:111. Aug.24,1950. 80 G89 Includes discussion of possibilities for export of agricultural products to France.
- 17938 ROBACH, S. Sweden's trade with the outer sterling area year 1949. (In Swedish.) *Sweden. Kommerskol. Kom. Meddel.* 37:516-528. July 1950. 257.3 K832K
- 17939 ROSSI, L. Meat and industrial horses? (In Italian.) *Rinascita Agr.* 5(11):2. Apr.1,1950. 281.8 R47 Italian imports.
- 17940 SAID, M. B. Nouvelles considérations sur le commerce extérieur de l'Égypte au cours des cinq dernières années. *Soc. Belge d'Études et d'Expansion. B. Bimest.* 49:583-588. Aug./Oct.1950. 280.8 S017
- 17941 SCHIMMELPFENNIG, Tierzucht und werbung. *Tierzüchter* 2:525-527. Oct.20,1950. 49 T445
- 17942 SHEAR, S. W. Pear export situation. *Blue Anchor* 27(4):20-21. Nov.1950. 286.83 B62
- 17943 SIEBENGA, J. The export of seeds for sowing. (In Dutch.) *Netherlands Landbouwlichtingsdienst. Maandbl.* 7:391-398. Sept.1950. 12 N383M
- 17944 SIEMENS, R. E. A voice from the practice of exporting Thoroughbred horses. (In Dutch.) *Netherlands Landbouwlichtingsdienst. Maandbl.* 7:398-401. Sept. 1950. 12 N383M
- 17945 SOCIEDAD DE AGRICULTORES DE COLOMBIA. Arancel aduanero; informe de la SAC sobre cereales, oleaginosas y territorios nacionales. *Rev. Nac. de Agr. [Bogotá]* 44(544):5-10,12-13. Aug.1950. 9.4 R32
- 17946 STEIN, E. Bier, hopfen und malz im schweizerischen aussenhandel. *Brauwelt* 1950:887-888. Oct.19, 1950. 390.8 B732
- 17947 TESTA, A. La recuperación económica de Alemania y sus importaciones de café. *Asoc. Gen. de Agr. B.* 280:5-6. Oct.15,1950. 8 As52
- 17948 TORRINI, T. Reasons for our low exports. (In Italian.) *Torchio* 1(12):1-2. Dec.31,1949. 390.8 T63 Italian wine.
- 17949 TUKKER, J. G. Prospects for the export of eggs and poultry. (In Dutch.) *Netherlands Landbouwlichtingsdienst. Maandbl.* 7:339-342. Aug.1950. 12 N383M
- 17950 TYSZYNSKI, H. A note on international commodity agreements. *Economica [London] (n.s.)* 17:438-447. Nov.1950. 280.8 Ec73
- 17951 U. S. CONGRESS. HOUSE. COMMITTEE ON INTERSTATE AND FOREIGN COMMERCE. Export of strategic materials. Hearings, 81st Cong., 2d sess.; committee study of export licensing of strategic materials, Sept. 6, 7, 12, 15, and 18, 1950. Washington, 1950. 225 p.
- 17952 U. S. ECONOMIC COOPERATION ADMIN. DIV. OF STATISTICS AND REPORTS. Paid shipments from Brazil by country of destination and commodity group cumulative, April 3, 1948-June 30, 1950. Washington, 1950. 1 p. 173.2 Ec72Pab
- 17953 VERSCHUYL, H. Export of the Texel sheep. (In Dutch.) *Netherlands Landbouwlichtingsdienst. Maandbl.* 7:403-404. Sept.1950. 12 N383M
- 17954 WIEDORN, K. Der absatz des deutschen honigs. *Eier-, Wild-, Geflügel- u. Honig-Markt* 2(44):1-2. Nov.2,1950. 280.38 E13 Trade.

## FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 17955 ADLERSBERG, D., and RABINOWITZ, D. The sprue syndrome—improved dietary management. *Amer. Dietet. Assoc. J.* 26:879-882. Ref. Nov.1950. 389.8 Am34
- 17956 AMERICAN HOME ECONOMICS ASSOCIATION. FOOD AND NUTRITION DIV. TERMINOLOGY COMMITTEE. Handbook of food preparation. *Rev. Washington, 1950.* 55 p. 389.2 Am3H
- 17957 BERNARD, P. F., and TREMOLIERES, J. Problemes de l'alimentation des opérés. *Soc. Sci. d'Hyg. Aliment. B.* 38:174-184. 1950. 389.9 S01B
- 17958 BIRCHER, E. Die molkenkur in moderner aufassung. *Schweiz. Zentbl. f. Milchwirt.* 39:233-234. Oct.13,1950. 44.8 Sch93
- 17959 BONFILS, S. Quelques notions concernant la diététique du diabétique. *Soc. Sci. d'Hyg. Aliment. B.* 38:148-154. 1950. 389.9 S01B
- 17960 CARDON, P. V. Food—from soil to dining table. *Washington, U. S. Agr. Res. Admin., 1950.* 6 p. 1.965 A2C17 Presented before the Food and Nutrition Board, National Research Council, Nov. 17, 1950. Food and nutrition.
- 17961 CEREAL INSTITUTE. A basic breakfast pattern, edited by E. V. McCollum. Chicago, 1949. 21 p. (Teacher's Source Book) 389.1 C33Ba
- 17962 CHILTON, N. W. Nutrition in relation to dental health. *Amer. Dietet. Assoc. J.* 26:874-878. Ref. Nov. 1950. 389.8 Am34
- 17963 CLAYTON, C. B. Can the average diet be adequate? *Pract. Home Econ.* 28:532,544-545. Nov. 1950. 321.8 H752
- 17964 COMMUNITY SERV. SOCIETY OF NEW YORK. NUTRITION SERV. Foods for health, as we grow older. New York, 1949. 33 p. 389.1 C736
- 17965 CONFERENCE ON NUTRITION PROBLEMS IN LATIN AMERICA, 2, RIO DE JANEIRO, 1950. DELEGATION FROM THE UNITED STATES. The second Conference on Nutrition Problems in Latin America convened by the Food and Agriculture Organization of the United Nations, Rio de Janeiro, Brazil, June 5-13, 1950. Report of Delegate [H. K. Stiebeling] of the United States of America. Washington, U. S. Bur. Human Nutr. & Home Econ., 1950. 6 p. 1.982 A2Se2
- 17966 CRONAN, M. L. How do our lunchrooms operate under the Federal program? *Pract. Home Econ.* 28:527. Nov.1950. 321.8 H752
- 17967 CURTIS, B. W. The expanding role of the school lunch program. *Nutr. News* 14(2):7-8. Dec.1950. 389.8 N957
- 17968 DUNN, M., and VOLLMER, E. Muffins and quick-loaf breads. *N. Y. Agr. Col. Ext. Cornell 4-H Club B.* 92,14 p. Sept.1950. 275.29 N48Cn
- 17969 EPPRIGHT, E. S. The American Dietetic Association contributes to the health of children and youth. *Amer. Dietet. Assoc. J.* 26:901-902,904. Nov. 1950. 389.8 Am34
- 17970 FOLEY, M. E. Vegetables in your meals. *Mass. U. Agr. Ext. L.* 71, rev., 32 p. Sept.1950. 275.29 M38IL Chiefly recipes.
- 17971 GELLER, L. Die ernährung der kinder vom 4. bis 14. lebensjahr. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1352. Sept.28,1950. 18 L2346
- 17972 GUTHRIE, N. Better breakfasts on a college campus. *Pract. Home Econ.* 28:526,542. Nov.1950. 321.8 H752
- 17973 HARTMAN, J. Dietary consultation service to institutions. *Nutr. News* 14(2):7. Dec.1950. 389.8 N957
- 17974 HARTOG, C. DEN. Diet of schoolchildren and students in the Netherlands. *Food & Agr.* 3:132-135. July/Sept.1950. 389.8 F7326



- 17975 INDONESIA. DEPT. OF HEALTH. NUTRITION RESEARCH INSTITUTE. Annual report 1948. Organ. Sci. Res. Indonesia. O.S.R.P. 11,20 p. 1950. 330.9 Or3P
- 17976 KING, C. G. Looking ahead with nutrition research. *Nutr. News* 14(2):1. Dec.1950. 389.8 N957
- 17977 LACY, E., and others. Foods project for 4-H Clubs; supper or luncheon. *Ky. Agr. Col. Ext. 4-H* 1003, 16 p. June 1950. 275.29 K415Kh
- D. Gentry, M. Gulley, and L. Sutherland, joint authors.
- 17978 LEE, R. Importance of food enzymes in promoting mineral assimilation. *Amer. Acad. Appl. Nutr. Mon. Newslet. J.* 3(8):3-5. Aug.1950. 389.9 Am352
- 17979 LONG, L. How to set up a nutrition exhibit. *Pract. Home Econ.* 28:524-525. Nov.1950. 321.8 H752
- 17980 MCMAHON, G., comp. Dietary consultation—a service for small institutions. III. *Amer. Dietet. Assoc. J.* 26:883-888. Ref. Nov.1950. 389.8 Am34
- 17981 MONSANGEON, A. L'alimentation des brûlés. *Soc. Sci. d'Hyg. Aliment. B.* 38:185-187. 1950. 389.9 So1B
- 17982 NEW ZEALAND. DEPT. OF HEALTH. Lecture notes on normal nutrition, State examination for nurses, by M. E. Bell. Dunedin, Govt. Printer, 1950. 110 p. 386.3 N48
- 17983 PROUDFIT, F. T., and ROBINSON, C. H. Nutrition & diet therapy. Ed. 10. New York, Macmillan, 1950. 950 p. Ref. 389.1 P94
- 17984 RICARDO, A. We are satiated with sweets—. (In Portuguese.) *Selec. Agr.* 5(53):69-70. Sept.1950. 9.2 Se4
- Brazilian nutrition.
- 17985 ROBERTS, L. J. A practical nutrition program for Puerto Rico. *Nutr. Rev.* 8:321-324. Nov.1950. 389.8 N953
- 17986 ROSS, R. H. Vancouver Nutrition Institute, April 1950. *Canad. Nutr. Notes* 6:73-75. Oct.1950. 389.9 C168
- 17987 ROSS, S. G. Pellagra in Fiji. *Amer. J. Trop. Med.* 30:921-928. Nov.1950. 448.8 Am33
- 17988 SILVEIRA, A. H. DA. Indústrias rurais caseiras. Ed. 2. Rio do Janeiro, Serviço de Informação Agrícola, 1949. 16 p. (S. I. A., 613) 389.25 Si3
- Recipes.
- 17989 SMITH, E. J., and MCDOWELL, A. Meals the 4-H way. III. *Wyo. Agr. Col. Ext. C.* 115,58 p. Sept.1950. 275.29 W99C
- 17990 STIEBELING, H. K. Food—an international concern. Washington, U. S. Bur. Human Nutr. & Home Econ., 1950. 8 p. 1.982 A2St5
- Address before the American Dietetic Association annual meeting, Washington, D. C., Oct. 17, 1950.
- 17991 THOMAS, R. U., and others. Nutritional status of children. XIII. *Amer. Dietet. Assoc. J.* 26:889-896. Ref. Nov.1950. 389.8 Am34
- M. M. Rutledge, E. F. Beach, E. Z. Moyer, M. C. Drummond, S. Miller, A. R. Robinson, O. N. Miller, M. N. Coryell, and I. G. Macy, joint authors.
- 17992 TREMOLIERES, J. Apropos of an FAO report on dietary surveys. *Food & Agr.* 3:135-138. July/Sept. 1950. 389.8 F7326
- 17993 TREMOLIERES, J., BERGOUNIOUX, J., and LOUBRY, C. Le traitement diététique des cirrhoses. *Soc. Sci. d'Hyg. Aliment. B.* 38:164-173. Ref. 1950. 389.9 So1B
- 17994 TURNER, M. A career in public health nutrition. *Colhecon* 6(2):1. Nov.1950. 321.8 C68
- 17995 U. S. PRODUCTION AND MARKETING ADMIN. School lunch and food distribution programs, selected statistics, fiscal years 1939-50. Washington, 1950. 15 p. 1.956 F732Sch6
- 17996 U. S. PRODUCTION AND MARKETING ADMIN. Specifications for shelves for the school lunch storeroom. U. S. D. A. PA-133,4 p. July 1950. 1 Ag84Pro
- 17997 VAGUE, J. Bases théoriques et pratiques du régime alimentaire dans les obésités. *Soc. Sci. d'Hyg. Aliment. B.* 38:155-163. 1950. 389.9 So1B
- 17998 VAN BLAIR, M. A. Lunch at the fresh air schools. *Pract. Home Econ.* 28:583. Dec.1950. 321.8 H752
- 17999 WALSH, M. J. Educational aspects of the nutritional problem. *Amer. Acad. Appl. Nutr. Mon. Newslet. J.* 3(8):7-10. Aug.1950. 389.9 Am352
- 18000 WARREN, S., JOHNSON, M., and RISSINGER, M. Apple time. *Pa. State Col. Agr. Ext. L.* 135,5 p. Oct.1950. 275.29 P38L
- Chiefly recipes.
- 18001 WILHELMY, O., JR., YOUNG, C. M., and PILCHER, H. L. Nutritional status survey, Groton Township, New York. III. Nutrient usage as related to certain social and economic factors. *Amer. Dietet. Assoc. J.* 26:868-873. Nov.1950. 389.8 Am34
- 18002 WOLTERS, F. Schulspeisung und schulmilch-frühstück. *Molk.-Ztg.* 4:1181-1182. Oct.5, 1950. 44.8 M735
- 18003 ZIMMERMAN, W. Eggs to promote health. *Victorian Poultry J.* 37(3):9,11. Oct.2, 1950. 47.8 V662

## FOOD HABITS

- 18004 ANDERSON, E. Dietary problems in the Far East. *Food & Nutr. News* 23(2):1,4. Nov.1950. 389.8 F7332
- 18005 BUREMA, J., SCHAIK, T. VAN, and WOONINK, B. An inquiry into the composition of the midday-meal in the rural districts of the Netherlands. (In Dutch.) *Voeding* 11:285-297. Ref. Aug.15, 1950. 389.9 V85
- English summary.
- 18006 LEGENDRE, A. F. La cocina china. ICA; Indus. y Com. de la Aliment. 5(57):17-18. Aug.1950. 286.8 Ic1
- Food habits.
- 18007 VOSS, R. Home economists—what are their food habits? *Colhecon* 6(2):4-5. Nov.1950. 321.8 C68

## NUTRITIVE AND VITAMIN CONTENT

- 18008 BOLLER, A. E., and CAMPBELL, R. Meat has come into its own. *Natl. Wool Grower* 40(11):18-19. Nov. 1950. 45.8 N21N
- Nutritive value.
- 18009 BOYES, W. W., and GINSBURG, L. The significance of phytic acid in Cape Town breads and breakfast foods. *Food Indus. So. Africa* 3(7):33-37. Ref. Nov.1950. 389.8 F7372
- Grain products.
- 18010 CALIMERI, M. Is bread a surpassed food? (In Italian.) *Arte Bianca* 5(31):5,(32):3. (Concl.) Ref. Nov.11-21, 1950. 389.8 Ar7
- 18011 CRANG, A., and STURDY, M. The retention of ascorbic acid in preserved fruits. II. *J. Sci. Food & Agr.* 1:252-254. Aug.1950. 382 So12
- 18012 CREMER, H. D. Einfluss der ernährung, insbesondere des brotes auf die zahnkrankheiten. *Getreide, Mehl u. Brot* 4:141-143. Ref. July 1950. 298.8 G33
- 18013 DAME, R. B. Marvels of goat milk. *Amer. Dairy Goat News* 12(6):5,9,12-13. Dec.1950. 40.18 Am34
- Nutritive value.
- 18014 DHOPESHWARKAR, G. A., and MAGAR, N. G. Effect of storage on the vitamin-C content of canned foods. *Cur. Sci.* 19:288-289. Sept.1950. 475 Sci23
- 18015 DURÁN QUEVEDO, T. Proporción de azúcar de caña en la alimentación diaria. *Tierra Libre (ser.2)* 14(8):13-14. Aug.1950. 8 T443
- Nutritive value.
- 18016 GONZALEZ-GALVAN, J. M. Utilidad alimenticia de las frutas. *Balearic Isl. Diputación Prov. B. de Agr.* 72:10. Sept.1950. 15 B19
- 18017 HALDEN, W. Gesundheitswerte im brotgetreide. *Lebensmittel u. Konserv.* 1950(5):1-2. May 1950. 389.8 L492
- 18018 IVES, M. Nutrient retention during canning. 2. *Food Canada* 10(11):18,21-22,24. Ref. Nov.1950. 389.8 F7323
- 18019 NOSKE, H. What are these vitamins? *So. Austral. Dept. Agr. J.* 54:52. Aug.1950. 23 So84
- 18020 PALLADINA, O. K. Pishchevaia tsennost' margarina [Nutritive value of margarine]. Moskva, Pishchepromizdat, 1949. 39 p. 389.1 P172
- 18021 PATTON, M. B., DEVADAS, R., and WILSON, E. D. Ascorbic acid retention and palatability of cabbage as cooked in South India. *Amer. Dietet. Assoc. J.* 26:897-898. Ref. Nov.1950. 389.8 Am34
- 18022 PEARSON, A. M., and others. Vitamin losses in drip from frozen-defrosted beef. (Abs.) *J. Anim. Sci.* 9:644-645. Nov.1950. 49 J82
- H. M. Edwards, J. E. Burnside, A. F. Novak, R. S. Glasscock, and T. J. Cunha, joint authors.
- 18023 RESCIGNO, G. Vitamin enrichment of milk and derivatives. (In Italian.) *Latte* 24:344-345. Oct. 1950. 44.8 L35



18024 RIDDELL, W. H. Cheese—bargain in nutrition. *Butter, Cheese & Milk Prod. J.* 41(12):54. Dec.1950. 286.85 B98Bu

18025 SCHEUNERT, A. Die vitamin-B-bilanz unserer heutigen ernährung unter besonderer berücksichtigung der vitaminisierung der mehle. (Abs.) *Angew. Chem.* 62:431. Sept.21,1950. 384 Z33

18026 SMITS, G. The nutritive value of butter compared with that of other edible fats, especially of margarine. (In Dutch.) *Voeding* 11:298-317. Ref. Aug.15,1950. 389.8 V85

English summary.

18027 THOMSON, A. V. Honey in the diet. *Gleanings Bee Cult.* 78:734,766-767. Dec.1950. 424.8 G47

18028 TRUFANOV, A. V. Vitaminy i antivitaminy [Vitamins and antivitamin]. Moskva, Pishchepromizdat, 1950. 115 p. 389.1 T76

## MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

### GENERAL

18029 ADAMS, J. P. The bounties of nature; our natural resources are not inexhaustible. It is time we pay more attention to their conservation and replenishment. *Amer. Forests* 56(11):10-11. Nov.1950. 99.8 F762

18030 ARIGA, H. Kaisetsu idengaku. Commentary study of heredity. Tokyo, Azumi Shobo, 1949. 279 p. 443 Ar43

18031 BERTHAULT, P. La Confédération Européenne de l'Agriculture. *Rev. Agr. de l'Afrique du Nord* 48:719-720. Oct.6,1950. 80 R326

18032 BRITISH GUIANA. DIRECTOR OF AGRICULTURE. Administration report for the year 1949. Georgetown? 1950. 20 p. 9.6 B774A

18033 CANADA. DEPT. OF AGRICULTURE. Report for the year ended March 31, 1950. Ottawa, 1950. 287 p. 7 C16R

18034 CAÑIZO, J. DEL. Ratones caseros y de campo. Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg. 6-50 H, 15 p. Apr.1950. 15 H68

Includes control methods.

18035 DYKSTRA, W. W. New techniques and developments in rodent control. *Pest Control* 18(12):9-10,12,14, 39. Dec.1950. 449.8 Ex8

Chiefly warfarin.

18036 EVANS, F. C. Relative abundance of species and the pyramid of numbers. *Ecology* 31:631-632. Oct. 1950. 410 Ec7

18037 FOSBERG, F. R. Remarks on the factual basis of ecology. *Ecology* 31:653-654. Oct.1950. 410 Ec7

18038 HAYES, W. J., JR., and GAINES, T. B. Control of Norway rats with residual rodenticide warfarin. *Pub. Health Rpt.* 65:1537-1555. Ref. Nov.24,1950. 151.65 P96

18039 HÜTER, F. Über abwehrstoffe gegen warmblütige tiere. *Anz. f. Schädlingk.* 23:122-124. Aug.1950. 421 An9

Repellents for rodents, birds, etc.

18040 KAISER, E. W. Destruction of rats. (In Danish.) *Dansk Pelsdyravl* 13:203-204. Sept.1,1950. 412.628 D23

18041 MANSFELD, K. Ernteschutz durch künstliche habichte. *Gartenjahr* 5:56-57. Apr.1950. 80 G1932

18042 MEXICO. SECRETARIA DE AGRICULTURA Y GANADERIA. Resumen del informe de labores del 1o. de septiembre de 1949 al 31 de agosto de 1950. México, 1950. 222 p. 8 M5711

18043 MINISCALCO, V. At the Rieti International Congress of Agricultural Genetics, May 30-June 3, 1950. (In Italian.) *Cam. di Com. Indus. e Agr. del Friuli. B. Uffic. (n.s.)* 4(6):3-5. June 1950. 287 U45

18044 MISSOURI. AGRICULTURAL EXPERIMENT STATION. Available publications. Mo. Agr. Expt. Sta. Serv. C. 142,7 p. Oct.1950. 100 M693Se

Experiment Station and Extension Service publications.

18045 MITCHELL, P. H. A textbook of biochemistry. Ed. 2. New York, McGraw-Hill, 1950. 695 p. Ref. 386.2 M692

18046 MITIN, M. B., ed. Protiv reaktsionnogo mende-lizma-morganizma; sbornik statei [Against reactionary Mendelism-Morganism]. Moskva, Akademiya Nauk SSSR, 1950. 349 p. 442 M69P

18047 MYSORE. DEPT. OF AGRICULTURE. Mysore agricultural calendar for the year virodhi (1949-1950). Bangalore City, 1949. 112 p. 34.2 M99

18048 NEW YORK (STATE) AGRICULTURAL EXPERIMENT STATION. Available publications. N. Y. (State) Agr. Expt. Sta. C. 105, rev., 8 p. Nov.1, 1950. 100 N48

18049 NORRBOTTENS LÄNS HUSHÄLLNINGSSÄLLSKAP. Matrikel år 1949 [Register, 1949, of the Norrbotten County Agricultural Society]. Luleå, 1949. 178 p. 280.29 N79

18050 OL'SHANSKIY, M. A. The creative role of selection in the light of Michurin's teaching. (In Russian.) *Agrobiologiya* 1950(4):21-37. July/Aug.1950. 20 Ag822

18051 ONTARIO. DEPT. OF AGRICULTURE. Report for the year ending March 31st, 1950. Toronto, 1950. 173 p. 7 On8Re

18052 OPARIN, A. I. The problem of the origin of life in the works of the contemporary adherents of Mendel and Morgan. (In Russian.) *Interagra* 4:188-206. Ref. 1950. 28 In825

English summary, p. 206-215.

18053 PALMIRA, COLOMBIA. ESTACION AGRICOLA EXPERIMENTAL. Lista de publicaciones. Palmira, 1950. 2 p. 241 P18

18054 PAVLOVSKIY, E. N. Sixth Conference on Parasitological Problems at the Zoological Institute of the Academy of Sciences of U.S.S.R., April 5-9, 1950. (In Russian.) *Zool. Zhur.* 29:289-296. July/Aug.1950. 410 R92

18055 PISCHLER, L. Le problème des rats au double point de vue de l'économie et de l'hygiène. *Feuilles Agr.* 8:67-72. Jan./Mar.1950. 24 F43

18056 POLOSATOVA, E. V. From the history of the fight for materialist biology in Russia (unpublished letter of I. I. Mechnikov to K. A. Timiriazev). (In Russian.) *Akad. Nauk SSSR. Izv. Ser. Biol.* 1950(3):14-19. May/June 1950. 511 Sa2B

18057 PUERTO RICO. COMISIONADO DE AGRICULTURA Y COMERCIO. Informe para el año fiscal 1948-1949. San Juan, 1950. 222 p. 8 P832R

18058 RAO, D. S. Rats and their control in granary and field. *Mysore Agr. Calendar* 1949/50:12-14. 1949. 34.2 M99

18059 RASMUSSEN, W. D., and BAKER, G. L. The War Records Project of the Department of Agriculture. *Agr. Econ. Res.* 2:123-125. Oct.1950. 1 Ec7Agr

18060 RODENDORF, B. B. Progressive development in evolution. (In Russian.) *Akad. Nauk SSSR. Vest.* 20(6): 53-58. June 1950. 511 Ak14V

18061 ROYAL GEOGRAPHICAL SOCIETY OF AUSTRALASIA. SOUTH AUSTRALIAN BR. Proceedings for the session 1948-49, v. 50. Adelaide, 1949. 104 p. 514 R81

18062 SCHAEFFENBERG, B. Rattenbekämpfung auf biologischer grundlage. *Anz. f. Schädlingk.* 23:124-127. Aug.1950. 421 An9

18063 SCHALLER, H. L. Here is the latest on warfarin, new rat killer. *Better Farming Methods* 22(12): 16,18-19,36. Dec.1950. 58.8 B46

18064 SCHESSER, J. Photography interesting hobby for anyone in agriculture. *Kans. Agr. Student* 27:17. Oct.1950. 276.8 K13

18065 SCHWEIZERISCHE NATURFORSCHENDE GESELLSCHAFT. Verhandlungen, 129. jahres versammlung vom 3. bis 5. September 1949 in Lausanne. Aarau, 1949. 404 p. 508 B452

18066 SHIBANOV, A. A., comp. Sbornik statei po voprosam Michurinskoi biologii [Collection of articles on problems of Michurinite biology]. Moskva, Gos. Ucheb. - Pedagog. Izd-vo Ministerstva Prosveshcheniya RSFSR, 1950. 216 p. 442 Sh6S

18067 SONNEBORN, T. M. Partner of the genes; an account of the experimental evidence indicating that the factors controlling heredity lie not only in the nucleus of the cell but also in the rest of it. *Sci. Amer.* 183(5):30-39. Nov.1950. 470 Sci25



19068 STEINIGER, F. Heutige Gesichtspunkte zur trockenbrockenfrage. *Anz. f. Schädlingsk.* 23:136-137. Sept. 1950. 421 An9

Rat control.

19069 STOLETOV, V. N. Michurin and the present time. (In Russian.) *Akad. Nauk SSSR. Izv. Ser. Biol.* 1950(3):3-13. May/June 1950. 511 Sa2B

Chiefly his biological principles.

19070 U. S. EASTERN REGIONAL RESEARCH LABORATORY. Publications and patents, January-June 1950. U. S. Bur. Agr. & Indus. Chem. AIC-180(sup.5), 12 p. 1950. 1.932 A2Ag82

19071 U. S. PRODUCTION AND MARKETING ADMIN. Handbook for the management of records and communications. Washington, 1950. 55 p. 1.956 A2H192

19072 U. S. PRODUCTION AND MARKETING ADMIN. Notices of judgment under the Federal Insecticide, Fungicide, and Rodenticide Act, 1-25. Washington, 1950. 12 p. 1.956 A2N844

19073 VAITSMAN, J. The sanitation function of owls. (In Portuguese.) *Chacaras e Quintais* 82:486-487. Oct. 15, 1950. 9.2 C34

Importance to the farmer.

19074 VERMOREL, V. Agenda agricole et viticole, 65th, 1950. Rhône, 1950. 366 p. 14 V59

19075 VIRGINIA. DEPT. OF HEALTH. Annual report for the fiscal year ending June 30, 1949. Richmond, 1950? 68 p. 449.7 V81A

## HISTORY AND BIOGRAPHY

19076 BARNES, H. F. Obituary notice; Dr. A. D. Imms. *Ann. Appl. Biol.* 37:553-554. Sept. 1950. 442.8 An72

19077 BELIN, I. G. A. N. Krasnov botaniko-geograf i puteshestvennik (1862-1914) [A. N. Krasnov, botanist-geographer and traveler (1862-1914)]. Moskva, Mosk. skoe Ob-vo Ispytatelei Prirody, 1950. 94 p. 120 K86

19078 BENSON, L. Achille Loria's influence on American economic thought including his contributions to the frontier hypothesis. *Agr. Hist.* 24:182-199. Oct. 1950. 30.98 Ag8

19079 BOVEY, P. Auguste Barbey 1872-1948. Schweiz. Naturf. Gesell. Verhandl. 129:375-381. 1949. 508 B452

Includes list of his publications.

19080 BOWLES, E. A. Frederick James Chittenden, O.B.E., F.L.S., V.M.H. Roy. Hort. Soc. J. 75:424-426. Nov. 1950. 84 L84J

19081 CHASE, A. Henry Pittier in Washington. Ceiba 1:138-140. Oct. 31, 1950. 475 C32

19082 COLETTI, F. The rural thought of Carlo Cattaneo. (In Italian.) *Agenzia Romana Note e Inform.* Agr. 76:1-4. Nov. 11, 1950. 281.8 Ag3

19083 CRUZ B., L. La muerte del sabio Enrique Pittier. Ceiba 1:140-141. Oct. 31, 1950. 475 C32

19084 DAIGLE, J. Les origines de l'agriculture canadienne: les seigneurs de la Rivière-du-Sud. *Foyer Rur.* [Montreal] 10(2):10-11, 17. Nov. 1950. 7 F83

19085 ELLSWORTH, C. S. Ceres and the American men of letters since 1929. *Agr. Hist.* 24:177-181. Oct. 1950. 30.98 Ag8

19086 EROKHINA, A. A., and FRIDLAND, V. M. Jubilee of Academician Leonid Ivanovich Prasolov. (In Russian.) *Pochvovedenie* 1950:436-437. 57.8 P34

19087 FIGL, L. Buchinger-Reither, zwei namen, ein programm. *Agr. Rundschau* 4:1. Summer 1950. 280.8 Ag82

19088 FLEISCHER, K. Dr. Johannes Dzierzon. *Bienenwarte* 3:202-203, 238-239, 250-251, 262-263. (Cont.) Aug. 10-Oct. 25, 1950. 424.8 B4722

19089 IAKOVLEV, M. S. From the history of Russian science in the 18th century. (In Russian.) *Priroda* 39(5):71-72. May 1950. 410 P933

Contributions of V. Severygin (1765-1826) to plant science.

19090 IAKUSHKIN, I. V. Ivan Semenovich Shulov (1874-1940). (In Russian.) *Soviet. Agron.* 8(8):83-86. Aug. 1950. 20 S884

19091 KROKHALEV, G. S. A. V. Sovetov as predecessor of Vil'fams in teaching about systems of agriculture. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 11:30-39. 1949. 20 M857

19092 LEBEDEV, V. Ivan Vladimirovich Michurin (1855-1935). Moskva, "Molodaja Gvardiya", 1950. 322 p. 120 M581

19093 LIESS, J., and ROSENBERGER, G. Richard Götze zum 60. geburtstag. *Deut. Tierärztl. Wchnschr.* 57: 318-319. Oct. 15, 1950. 41.8 D482

19094 MAYOR, E. Paul Konrad 1877-1948. Schweiz. Naturf. Gesell. Verhandl. 129:400-402. 1949. 508 B452

19095 MERKT. Alpwirtschaft in alter zeit. Auf der Alpe 1950:78-79, 86-87. Oct.-Nov. 1950. 18 Au3

19096 MUGGE, Johann Heinrich von Thünen zum gedächtnis. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1421-1422. Oct. 12, 1950. 18 L2346

19097 NOVOPOKROVSKIĖ, I. V. Professor M. M. Il'in. (In Russian.) *Bot. Zhur.* 35:208-220. Mar./Apr. 1950. 451 R923

Includes list of his botanical contributions.

19098 OBITUARY. Albert Edward Wright. *Entomologist* 83:167-168. July 1950. 421 En8

19099 PIREZ, D. R. V. Manuel Saraiva Vieira. (In Portuguese.) *Melhoramento* 1(2):7-10. 1949. 105.7 M48

19100 PRASOLOV, L. I. From recollections on meetings with V. V. Dokuchaev, N. M. Sibirskiy, and V. R. Vil'fams. (In Russian.) *Pochvovedenie* 1950:389-393. 57.8 P34

19101 RICASOLI, B., II. Pioneers of agriculture: Bettino Ricasoli. (In Italian.) *Ital. Agr.* 87:525-537. Sept. 1950. 16 It1

19102 ROE, B. H. Mariano Montealegre. *Org. Gard.* 17(5):25-28. Nov. 1950. 56.8 Or3

19103 SALVADOR Y ASCASO, J. M. El campo de la historia en la historia del campo. *Saragossa. Cám. Ofic. Sind. Agr. B. Mens.* 27:10-11. Aug. 1950. 15 Sa7

19104 SHAFFER, P. A. Biographical notes on Dr. Leo Loeb. *A.M.A. Arch. Path.* 50:661-675. Dec. 1950. 448.8 Ar26

With Bibliography of writings of Dr. Leo Loeb from 1896 to 1949.

19105 SHISHKIN, B. K. Life and creative activity of V. L. Komarov. (In Russian.) *Bot. Zhur.* 35:140-147. Mar./Apr. 1950. 451 R923

His contributions to botany.

19106 STANDLEY, P. C. Henri Francois Pittier en Costa Rica. Ceiba 1:129-135. Oct. 31, 1950. 475 C32

19107 VALENZUELA, P. Jose Kabigting Santos. *Philippine J. Sci.* 78:275-283. Sept. 1949. 475 P53

Includes list of his publications.

19108 WATSON, D. S. Salutes oldest experiment station. *New Eng. Homestead* 123(20):7, 17. Oct. 28, 1950. 6 N442

Connecticut Agricultural Experiment Station in New Haven.

## HOME MANAGEMENT

19109 ARMSTRONG, O. Short cuts in home sewing. *Okl. Agr. Col. Ext. C.* 396, 14 p. n.d. 275.29 Ok41C

19110 BAMESBERGER, E. Make a slip cover. *Mass U. Agr. Ext. Spec. C.* 169, 24 p. May 1950. 275.29 M381Sc

19111 BARTON, M. B. Make your sewing machine work for you. *Pa. State Col. Agr. Ext. C.* 366, 9 p. Oct. 1950. 275.29 P38C

19112 BREKKE, J. E. Buying a sewing machine. *N. Dak. Agr. Col. Ext. C. A-*147, 6 p. 1950? 275.29 N812Sa

19113 COOLEY, E. Make a dress. *Mass. U. Agr. Ext. L.* 161, 27 p. Sept. 1950. 275.29 M381L

19114 LACY, E., and others. Clothing project for 4-H Clubs; play and work clothes, comfortable, serviceable, attractive. *Ky. Agr. Col. Ext. 4-H* 1036, 9 p. Apr. 1950. 275.29 K415Fh

D. Gentry, L. Sutherland, and M. Gully, joint authors.

19115 LACY, E., and others. Clothing project for 4-H Clubs; tailored suit or ensemble. *Ky. Agr. Col. Ext. 4-H* 1040, 11 p. Mar. 1950. 275.29 K415Fh

D. Gentry, L. Sutherland, and M. Gully, joint authors.

19116 LUSK, M. Your tailored outfit; 4-H clothing plan X. *Wash. State Col. Ext. B.* 433, 8 p. Sept. 1950. 275.29 W27P

19117 PARSONS, E. Can a young woman be a good homemaker and take part in outside activities? *Ext. Serv. Rev.* 21:187, 198. Nov. 1950. 1 Ex892Ex



- 18118 PEARSON, H., and MELOCHE, G. Clothes for children. Wis. Agr. Col. Ext. Spec. C., rev., 7 p. Aug. 1950. 275.29 W75S
- 18119 STURGIS, L. C. A coordinated closetful—the basic wardrobe. Wash. State Col. Ext. B. 429, 8 p. Aug. 1950. 275.29 W27P
- 18120 WASMUTH, G., and WATERS, H. T. Better home lighting. W. Va. Agr. Col. Ext. Good Living Ser. 17, Adventures Broader Horizons. Lesson 14, 6 p. n.d. 275.29 W52DG
- 18121 WRIGHT, F. E. Refinishing old furniture: natural finishes. N. Y. Agr. Col. Cornell Ext. B. 295, rev., 32 p. Nov. 1950. 275.29 N48E
- 18122 WRIGHT, F. E. Three centuries of furniture. N. Y. Agr. Col. Cornell Ext. B. 672, rev., 67 p. Nov. 1950. 275.29 N48E

## INTERNATIONAL RELATIONS

- 18123 BRANNAN, C. F. Hemispheric strength through a mutually prosperous agriculture. Washington, U. S. D. A., Off. Sec., 1950. 9 p. 1.91 A2B73
- Address, Inter-American Conference on Agriculture and Second Latin American Regional Meeting of the United Nations Food and Agriculture Organization, Montevideo, Dec. 4, 1950.
- 18124 FIGUEROA A., A. La primera conferencia regional de la FAO, Quito, Ecuador 18-24 de setiembre de 1949. U. Nac. Mayor de San Marcos. Facul. de Cien. Econ. y Com. Rev. 42:122-131. Mar. 1950. 280.8 R328
- 18125 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Work of FAO 1949/50; report of the director-general. Washington, 1950. 89 p. 389.9 F735Dg
- 18126 FRAUENDORFER, S. Die FAO als Mittelpunkt des internationalen organisationswesens in landwirtschaft und ernährung. Agr. Rundschau 4:39-49. Summer 1950. 280.8 Ag82
- 18127 UNION OF INTERNATIONAL ASSOCIATIONS. Annuaire des organisations internationales, 3d, 1950. Geneva, 1950. 902 p. 225 An733
- Includes agricultural associations.

## METEOROLOGY

- 18128 BAHR, V. J. The Meteorological Bureau and the primary producer. Tasmanian J. Agr. 21:163-167. Aug. 1950. 23 T182T
- 18129 ÇOLAŞAN, Ü. E. Condition atmosphérique dans les six premiers mois de l'année agricole 1949-1950. (In Turkish.) Türkiye Cumhuriyeti Ziraat Bankası. Uc Ayda Bir Çıkar 17:19-25. Jan./Mar. 1950. 280.9 T842
- 18130 FLEMING, R. Push-button weather, fact or fancy? Crops & Soils 3(2):10-13. Nov. 1950. 6 W55
- 18131 HEFNY, B. E. Climate and agriculture in Florida. Clark U. Abs. Diss. & Theses 22:12-15. 1950. 241.8 C54
- 18132 HOWLAND, J. E. What's new in climate control. Amer. Assoc. Nurseymen Proc. 75:146-150. 1950. 81 Am3P
- 18133 LADYGIN, I. A. Bor'ba s zasukhoi v stepnykh i lesostepnykh raionakh [The struggle against drought in steppe and forest-steppe districts]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1949. 214 p. 33.3i L12
- 18134 NIESCHLAG, F. Das wetter und die landwirtschaft Nordwestdeutschlands. Landwirtbl. Weser-Ems 97:878-880. Oct. 19, 1950. 18 L2345
- 18135 PERRUSSET, M. La météorologie et l'agriculture. Tunisie Agr. 51:71-75. Aug./Sept. 1950. 24 T832
- 18136 POST, J. J. Climatological aspects of the horticultural settlement plan. (In Dutch.) Landbk. Tijdschr. 62:586-593. Aug. 1950. 105.2 Or3
- 18137 PRESCOTT, J. A., and THOMAS, J. A. The length of the growing season in Australia as determined by the effectiveness of the rainfall. Roy. Geog. Soc. Australasia. So. Austral. Br. Proc. 50:42-46. Dec. 1949. 514 R81
- 18138 RAU, A. A. Statistics and agricultural meteorology. Mysore Agr. Calendar 1949/50:45. 1949. 34.2 M99

## RESEARCH

- 18139 BOMBAY DEPT. OF AGRICULTURE. The progress of agricultural research and development work in the Bombay State. Bombay, 1949? 87 p. 34.2 B63
- 18140 BORGSTRÖM, G. Jordbruksforskningen och världens livsmedelsproduktion [Agricultural research and the world food production]. Svenska Inst. f. Konservforsk. P. 13, 10 p. 1950. 389.9 Sv2
- 18141 CARDON, P. V. Interest of American public in agricultural research in Alaska. Washington, U. S. Agr. Res. Admin., 1950. 6 p. 1.965 A2C17
- Address, Alaskan Science Conference, Nov. 9-11, 1950, Washington, D. C.
- 18142 CENTRALE PROEFSTATIONS VERENIGING. Brief annual report of the experiment station of the Association of Central Experiment Stations, 1949. (In Dutch.) Bergcultures 19:341, 343, 345, 347, 349, 359, 361, 363, 365, 367, 370-371, 373, 375. Sept. 16-Oct. 16, 1950. 22.5 B45
- 18143 DAMMERMAN, K. W. Zoological research. (In Dutch.) Chron. Nat. 106:314-322. Ref. June 1950. 514 B31
- Includes soil fauna, insects and veterinary medicine.
- 18144 ELGUETA, M. La investigación en la agricultura. Rev. de Agr., Com. e Indus. [Panama] 8 (108/109):30-38. Aug./Sept. 1950. 8 R3291
- 18145 FRANKENA, H. J. Central Institute for Agricultural Research. (In Dutch.) Nieuwe Veldbode 17:104-105. Nov. 9, 1950. 12 V542N
- 18146 GIESSEN, C. VAN DER. Scientific advancement of agriculture in the last hundred years. (In Dutch.) Chron. Nat. 106:246-248. June 1950. 514 B31
- In Indonesia.
- 18147 GT. BRIT. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. DSIR, a description of the work of the Department of Scientific and Industrial Research. London, 1949. 39 p. 330.9 G792D
- 18148 JOLLY, A. L. The use of clip-cards in agricultural research. Trop. Agr. [Trinidad] 27:108-122. Ref. Apr./June 1950. 26 T754
- Similar title in Agron. J. 42:573-574. Nov. 1950. 4 Am34P
- 18149 KVASNIKOV, E. I. Research in microbiology accomplished by the Division of Biological and Agricultural Sciences of Uzbek SSR Academy of Sciences. (In Russian.) Mikrobiologiya 19:286-288. May/June 1950. 448.3 M582
- 18150 NETHERLANDS. CENTRAAL INSTITUUT VOOR LANDBOUWKUNDIG ONDERZOEK. Verslag van het Centraal Instituut voor Landbouwkundig Onderzoek over 1949 [Report of the Central Institute of Agricultural Research for 1949]. 's-Gravenhage, 1950. 148 p. 281.9 W12
- 18151 NEW ZEALAND. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. Twenty-fourth annual report. Wellington, 1950. 112 p. 330.9 N48
- 18152 ROBERTSON, T. C. Tagged atoms will soon help our farmers. Veldtrust 11(7):22-24. July 1950. 56.8 V54
- 18153 SHEWELL-COOPER, W. E. Research at East Malling. Field 196:682. Oct. 21, 1950. 10 F45
- 18154 THOMPSON, F. They find the answers; Land-Grant Colleges and their hard-working agricultural scientists are winning the struggle for better farming. Ford Farming 3(3):10-11. Summer 1950. 58.8 F752
- 18155 TINDALL, C. Biggest bargain in farm research. Mo. Rur. 91(20):4-5, 12. Oct. 28, 1950. 6 R8891
- Agricultural research in Missouri.
- 18156 TRULLINGER, R. W. Trends in agricultural research. Washington, U. S. Off. Expt. Sta., 1950. 13 p. 1.912 T76
- Talk before meeting of Texas Experiment Station workers, College Station, Oct. 19-24, 1950.
- 18157 U. S. DEPT. OF COMMERCE. Survey of university business and economic research projects 1947-48, by L. C. Bryant. Washington, 1949. 240 p. 157.54 D33
- Includes agriculture, forestry, and regional planning.
- 18158 WEST VIRGINIA. AGRICULTURAL EXPERIMENT STATION. Science serves your farm; biennial report, 1948/50. W. Va. Agr. Expt. Sta. B. 342, 38 p. Sept. 1950. 100 V52



- 18159 WIT, H. C. D. DE. The Organization for Scientific Research in Indonesia and botany in Indonesia. (In Dutch.) Chron. Nat. 106:289-313. Ref. June 1950. 514 B31

#### STATISTICS

- 18160 BROUSSE, H. Les indices de la production agricole. France. Inst. Natl. de la Statis. et des Études Econ. B. Mens. de Statis. Sup. (n.s.) 1950:244-255. July/Sept. 1950. 260 St22B

- 18161 INTER-AMERICAN STATISTICAL CONGRESS, 2, BOGOTÁ, 1950. Resumen y resoluciones. Estadística 28:329-369. Sept. 1950. 251.8 Es8

- 18162 WANG, C. M. Methods of statistical analysis of experimental results in the simple lattice design. (In Chinese.) Taiwan Sugar J. Q. 3:110-133. Ref. Aug. 1950. 65.8 T13

English summary.

- 18163 YULE, G. U., and KENDALL, M. G. An introduction to the theory of statistics. Ed. 14, rev. and enl. London, Griffin, 1950. 701 p. 251 Y9



U. S. D. A. PUBLICATIONS

Includes publications of the United States Department of Agriculture received in the Library during the preceding month, except restricted publications and materials issued for internal administrative use rather than for public distribution.

Periodicals issued by the Department are listed in the November issue only; articles in them are indexed currently.

Domestic requests for publications in the various Department series will be filled free upon application to the Office of Information, United States Department of Agriculture, Washington 25, D. C., as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington 25, D. C.

Bureau publications may ordinarily be obtained free of charge from the issuing bureau as long as the supply lasts.

Foreign institutions, organizations and agencies which issue publications may obtain United States Department of Agriculture publications in exchange by writing to the United States Department of Agriculture Library, Washington 25, D. C.

Agricultural Handbook

U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Forestry handbook for the Upper Mississippi Region. Ed. 5. U. S. D. A. Agr. Handb. 13, 101 p. Ref. Sept. 1950. 1 Ag84Ah

Agricultural Information Bulletins

QUESENBERRY, J. R. Livestock breeding research at the U. S. Range Livestock Experiment Station. U. S. D. A. Agr. Inform. B. 18, 12 p. 1950. 1 Ag84Ab

U. S. BUR. OF AGRICULTURAL ECONOMICS. Consumer preferences regarding apples and winter pears. U. S. D. A. Agr. Inform. B. 19, 69 p. 1950. 1 Ag84Ab

Circulars

DAVIS, J. F., and STRICKLER, P. E. Electricity on farms in the eastern livestock area of Iowa. U. S. D. A. C. 852, 88 p. Sept. 1950. 1 Ag84C  
Iowa Agricultural Experiment Station cooperating.

GORDON, E. D., and HURST, W. M. Artificial drying of forage crops. U. S. D. A. C. 443, rev., 28 p. Sept. 1950. 1 Ag84C

Revised by L. G. Schoenleber, L. A. Moore, and R. E. Hodgson.

MUSIL, A. F. Identification of Brassicas by seedling growth or later vegetative stages. U. S. D. A. C. 857, 26 p. Sept. 1950. 1 Ag84C

Farmers' Bulletins

JONES, J. W., DAVIS, L. L., and WILLIAMS, A. H. Rice culture in California. U. S. D. A. Farmers' B. 2022, 32 p. Sept. 1950. 1 Ag84F

Supersedes Farmers' Bulletin 1240.

SNYDER, T. E. Control of nonsubterranean termites. U. S. D. A. Farmers' B. 2018, 16 p. Sept. 1950. 1 Ag84F

TEMPLETON, G. S., and KELLOGG, C. E. Rabbit production. U. S. D. A. Farmers' B. 1730, rev., 58 p. Sept. 1950. 1 Ag84F

Miscellaneous Publications

COMBS, W. B., and SMITH, F. G. Grain grading primer. U. S. D. A. Misc. P. 325, rev., 67 p. Ref. May 1950. 1 Ag84M

U. S. BUR. OF ANIMAL INDUSTRY. The National Turkey Improvement Plan. U. S. D. A. Misc. P. 555, rev., 38 p. June 1950. 1 Ag84M

Program Aid

STALLINGS, J. H. Abstracts of recent published material on soil and water conservation. IV. U. S. D. A. PA-143, 66 p. Nov. 1950. 1 Ag84Pro

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Give your white pine [*Pinus strobus*] a chance. Control blister rust. U. S. D. A. PA-138, 8 p. Oct. 1950. 1 Ag84Pro

U. S. PRODUCTION AND MARKETING ADMIN. Specifications for shelves for the school lunch storeroom. U. S. D. A. PA-133, 4 p. July 1950. 1 Ag84Pro

Statistical Bulletins

U. S. BUR. OF AGRICULTURAL ECONOMICS. Production of manufactured dairy products, 1949. U. S. D. A. Statis. B. 93, 48 p. Nov. 1950. 1 Ag84St

Technical Bulletins

HUBBELL, D. S., and GARDNER, J. L. Effects of diverting sediment-laden runoff from arroyos to range and crop lands. U. S. D. A. Tech. B. 1012, 83 p. Ref. Aug. 1950. 1 Ag84Te  
New Mexico Agricultural Experiment Station cooperating.

PARKER, H. L., BERRY, P. A., and SILVERIA, A. Vegetable weevils [*Listroderes costirostris obliquus*] and their natural enemies in Argentina and Uruguay. U. S. D. A. Tech. B. 1016, 28 p. Oct. 1950. 1 Ag84Te

SORBER, D. G., and KIMBALL, M. H. Use of ethylene in harvesting the Persian walnut (*Juglans regia*) in California. U. S. D. A. Tech. B. 996, 80 p. Ref. Aug. 1950. 1 Ag84Te

WEISS, M. G., and others. Variability of agronomic and seed compositional characters in soybeans, as influenced by variety and time of planting. U. S. D. A. Tech. B. 1017, 39 p. Ref. Sept. 1950. 1 Ag84Te

C. R. Weber, L. F. Williams, and A. H. Probst, joint authors.

AGRICULTURAL AND INDUSTRIAL CHEMISTRY, BUREAU OF

BREKKE, J. E., and TALBURT, W. F. Preparation of fig powder. U. S. Bur. Agr. & Indus. Chem. AIC-283, 4 p. July 1950. 1.932 A2Ag82

LEWIS, J. C. Annotated bibliography of subtilin; assay microbiological production, purification and chemistry, biological activity, and related compounds. U. S. Bur. Agr. & Indus. Chem. AIC-168, rev., 15 p. Oct. 1950. 1.932 A2Ag82

U. S. EASTERN REGIONAL RESEARCH LABORATORY. Publications and patents, January-June 1950. U. S. Bur. Agr. & Indus. Chem. AIC-180(sup.5), 12 p. 1950. 1.932 A2Ag82

U. S. WESTERN REGIONAL RESEARCH LABORATORY. Publications with abstracts of the Enzyme Research Division, November, 1937 - December, 1947. U. S. Bur. Agr. & Indus. Chem. AIC-219, rev., 12 p. Oct. 1950. 1.932 A2Ag82

AGRICULTURAL ECONOMICS, BUREAU OF

RUSH, J. D. Analysis of State legislation authorizing rural fire protection. Washington, U. S. Bur. Agr. Econ., 1950. 7 p. 1.941 A2R89

Address, Farm Fire Committee, National Fire Prevention Association, St. Paul, Nov. 14, 1950.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Ability to discriminate and preferences in regard to canned orange juices that vary in brix-acid ratio. Washington, 1950. 27 p. 1.941 P1Ab5

U. S. BUR. OF AGRICULTURAL ECONOMICS. Lamb feeding situation, November 1, 1950. Washington, 1950. 2 p. 1.9 Ec742Lam

U. S. BUR. OF AGRICULTURAL ECONOMICS. Marketing channels and margins for soybeans and soybean products in Illinois, crop years 1947 and 1948, by A. R. Sabin. Washington, 1950. 24 p. 1.941 M3M348



U. S. BUR. OF AGRICULTURAL ECONOMICS. Men's preferences among wool suits, coats, and jackets; preliminary summary report. Washington, 1950. 21 p. 1.941 P1M522

U. S. BUR. OF AGRICULTURAL ECONOMICS. Pattern of distribution of fruits and vegetables shipped by railroad, 1939 and 1947 and transportation charges, 1947, by G. T. Reeves and H. V. Smith. Washington, 1950. 55 p. 1.941 M2P27

U. S. BUR. OF AGRICULTURAL ECONOMICS. Statistics relative to the fruit industry in the Jamestown, N. Y., market. Albany, N. Y., 1950. 24 p. 1.941 M8St2  
New York State Department of Agriculture and Markets cooperating.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Taxes levied on farm real estate in 1949. Washington, 1950. 7 p. 1.9 Ec7Farm

#### AGRICULTURAL RESEARCH ADMINISTRATION

CARDON, P. V. Food—from soil to dining table. Washington, U. S. Agr. Res. Admin., 1950. 6 p. 1.965 A2C17

Presented before the Food and Nutrition Board, National Research Council, Nov. 17, 1950.

CARDON, P. V. Interest of American public in agricultural research in Alaska. Washington, U. S. Agr. Res. Admin., 1950. 6 p. 1.965 A2C17

Address, Alaskan Science Conference, Nov. 9-11, 1950. Washington, D. C.

U. S. AGRICULTURAL RESEARCH ADMIN. Marketing margins and efficiency; a report of the Marketing Research Workshop, July 9 to 19, 1950, Purdue University. Washington, 1950. 238 p. 1.98 M343

#### ANIMAL INDUSTRY, BUREAU OF

HEYWANG, B. W. Plans for brooder house with shutters. U. S. Bur. Anim. Indus. A.H.D. 131, 4 p. June 1950. 1.9 An52Ah

LEE, A. R. Homing pigeons; their care and training. U. S. Bur. Anim. Indus. A.H.D. 138, 3 p. 1950. 1.9 An52Ah

SIMMS, B. T. Control of brucellosis in the United States. Washington, U. S. Bur. Anim. Indus., 1950. 6 p. 1.972 A2S14

Speech before the Inter-American Congress on Brucellosis, Washington, D. C., Nov. 9, 1950.

U. S. BUR. OF ANIMAL INDUSTRY. Annual turkey R.O.P. and R.O.M. summary, 1949. U. S. Bur. Anim. Indus. A.H.D. 130, 6 p. May 1950. 1.9 An52Ah

U. S. BUR. OF ANIMAL INDUSTRY. Meat inspection service; summary of activities fiscal year 1950. Washington, 1950. 14 p. 1.9 An537An

U. S. BUR. OF ANIMAL INDUSTRY. Outline of requirements of the National Turkey Improvement Plan. U. S. Bur. Anim. Indus. A.H.D. 135, chart. Oct. 1950. 1.9 An52Ah

U. S. BUR. OF ANIMAL INDUSTRY. State participation in the National Poultry Improvement Plan and the National Turkey Improvement Plan. U. S. Bur. Anim. Indus. A.H.D. 25, rev., 5 p. Oct. 1950. 1.9 An52Ah

U. S. BUR. OF ANIMAL INDUSTRY. REGIONAL POULTRY RESEARCH LABORATORY. Eleventh annual report, 1949/50. East Lansing, 1950. 27 p. 1.972 A3R291

#### DAIRY INDUSTRY, BUREAU OF

HODGSON, R. E. Dairy farming with grassland crops. U. S. Bur. Dairy Indus. BDI-Inf-113, 7 p. Nov. 1950. 1.973 D4B34

Remarks at the 1950 Grassland Farming Contest Round-up for Wisconsin, Madison, Nov. 8, 1950.

REED, O. E. New developments in dairy research. U. S. Bur. Dairy Indus. BDI-Inf-112, 7 p. Oct. 1950. 1.973 D4B34

Remarks at meeting of the Vermont Dairy Plant Operators and Managers Association, Burlington, Oct. 26, 1950.

#### ENTOMOLOGY AND PLANT QUARANTINE, BUREAU OF

BRUNSON, M. H., and KOBLITSKY, L. A study of DDT deposits on peach foliage and fruit treated for control of the oriental fruit moth [*Grapholitha molesta*] U. S. Bur. Ent. & Plant Quar. E-809, 6 p. Nov. 1950. 1.9 En83

EWING, K. P., and PARENIA, C. R., JR. Early-season application of insecticides on a community-wide basis for cotton control in 1950. U. S. Bur. Ent. & Plant Quar. E-810, 8 p. Dec. 1950. 1.9 En83

ROHWER, S. A. Threat of oriental fruit fly [*Dacus dorsalis*] and citrus blackfly [*Aleurocanthus woglumi*]. Washington, U. S. Bur. Ent. & Plant Quar., 1950. 17 p. 1.9 En86Ro

Talk to the Fruit and Vegetable Conference at the annual meeting of the American Farm Bureau Federation, Dallas, Dec. 11, 1950.

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine import restrictions of the Dominion of Canada. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 514, rev. (sup. 1), 3 p. Sept. 22, 1950. 1.9 F73

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine officials of the States, Territories, District of Columbia, Canada, and Mexico. Washington, 1950. 4 p. 1.967 D2P692

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Sweetpotato weevil (*Cylas formicarius elegantulus* (Sum.)). U. S. D. A. Picture Sheet 25, rev., 2 p. May 1950. 1.9 En86P

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Vapor-heat treatment approved as a condition for certification of pineapples under Hawaiian Fruit and Vegetable Quarantine No. 13. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 481, rev., 1 p. Dec. 10, 1950. 1.9 C73

WOODROW, A. W., and APP, B. A. Thresher and separator for red clover seed samples. U. S. Bur. Ent. & Plant Quar. ET-291, 6 p. Oct. 1950. 1.9 En83Et

#### EXPERIMENT STATIONS, OFFICE OF

TRULLINGER, R. W. Trends in agricultural research. Washington, U. S. Off. Expt. Sta., 1950. 13 p. 1.912 T76

Talk before meeting of Texas Experiment Station workers, College Station, Oct. 19-24, 1950.

#### EXTENSION SERVICE

NORTHWESTERN STATES BRUCELLOSIS CONFERENCE, BOISE, 1950. Proceedings, September 7 and 8, 1950. n.p., U. S. Ext. Serv., 1950. 55p. 1.972 A2B833

U. S. Bureau of Animal Industry cooperating.

U. S. EXTENSION SERV. Brief description of extension work in rural organization and sociology, by E. J. Niederfrank. Washington, 1950. 20 p. 1.913 A5B76

U. S. EXTENSION SERV. Marketing challenges the Extension Service. Washington, 1950. 9 p. 1.913 E2M343

U. S. EXTENSION SERV. Some early principles guiding the establishment of 4-H Club work, by E. W. Aiton. Washington, 1950. 2 p. 1.913 F3So57

U. S. EXTENSION SERV. Tentative suggestions for a 4-H money management program. Washington, 1950. 3 p. 1.913 F3T26

VAUGHAN, L. M. In-service training on questions of public policy. Washington, U. S. Ext. Serv., 1950. 12 p. 1.913 E2V46

Summary of remarks before Regional Conference of Extension Workers on Public Policy Problems, Southern States, Atlanta, Dec. 6, 1950.

#### FARM CREDIT ADMINISTRATION

COLLINS, E. C., and CREEK, C. R. Your peaches in the market. U. S. Farm Credit Admin. C. C-134, 9 p. May 1950. 166.2 C4923

Colorado Agricultural Experiment Station cooperating.



JOHNSTON, H. L. Rural health cooperatives. U. S. Farm Credit Admin. B. 60,93 p. Ref. June 1950. 166.2 B87  
U. S. Public Health Service cooperating.

#### FARMERS HOME ADMINISTRATION

U. S. FARMERS HOME ADMIN. General specifications for farm dwellings. Richmond, Va., 1950. 14 p. 1.949 G28

U. S. FARMERS HOME ADMIN. Helping small farmers in Kansas, by W. Dodge. Washington, 1950. 8 p. 1.949 H36

#### FEDERAL CROP INSURANCE CORPORATION

U. S. FEDERAL CROP INSURANCE CORPORATION. Loss adjustment manual for wheat and flax. Washington, 1950. 18 p. 1.952 L899

U. S. FEDERAL CROP INSURANCE CORPORATION. Multiple sales handbook; Federal crop insurance program. Washington, 1950. 20 p. 1.952 Sa35

U. S. FEDERAL CROP INSURANCE CORPORATION. Wheat sales handbook; commodity coverage. Washington, 1950. 20 p. 1.952 W563

U. S. FEDERAL CROP INSURANCE CORPORATION. Wheat sales handbook; monetary coverage. Washington, 1950. 19 p. 1.952 W564

#### FOREIGN AGRICULTURAL RELATIONS, OFFICE OF

ANDREWS, S. The international situation and its impact on agriculture. Washington, U. S. Off. Foreign Agr. Relat., 1950. 6 p. 1.943 An2

Summary of remarks before convention of the National Milk Producers Federation, Minneapolis, Nov. 14, 1950.

BURKE, J. H. A study of the citrus industry of Spain, 1950. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 56,122 p. Nov. 1950. 1.943 F763

MOORE, R. E. Setting up for technical assistance. Washington, U. S. Off. Foreign Relat., 1950. 8 p. 1.943 M78

Paper read before the Division of Agriculture, conference of the Association of Land-Grant Colleges and Universities, Washington, D. C., Nov. 13, 1950.

RIDDELL, G. E., and HECKMAN, J. H. Buying and selling by cooperatives in Europe. U. S. Foreign Agr. Relat. Foreign Agr. Rpt. 51,73 p. July 1950. 1.943 F763

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Index-to maps and charts published by the Office of Foreign Agricultural Relations. Washington, 1950. 40 p. 1.943 in23

#### FOREST SERVICE

AREND, J. L., and MONROE, A. F. Growth in two oak [*Quercus*] woodlots following an improvement cut. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 342,1 p. Oct. 1950. 1.9 F7625T

BLEAK, A. T., and PHILLIPS, T. A. Seedling stands from airplane broadcasting of pelleted and unpelleted seed in southeastern Utah. U. S. Forest Serv. Intermountain Forest & Range Expt. Sta. Res. Paper 22, 14 p. Ref. Aug. 1950. 1.9622 I2R31

BOLLER, K. H., and NORRIS, C. B. Effect of shear strength on maximum loads of sandwich columns. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1815,12 p. June 1950. 1.9 F761R

CARPENTER, R. D. Amount of chippable waste at southern pine sawmills. U. S. Forest Serv. South. Forest Expt. Sta. Occas. Paper 115,7 p. Nov. 1950. 1.9 F7624O

CROFT, A. R., and ADAMS, J. A., JR. Landslides and sedimentation in the North Fork of Ogden River, May 1949. U. S. Forest Serv. Intermountain Forest & Range Expt. Sta. Res. Paper 21,4 p. May 1950. 1.9622 I2R31

DEITSCHMAN, G. H. Comparative survival and growth of trees planted under three types of overhead cover on strip-mined land in southern Illinois. U. S. Forest Serv. Cent. States Forest Expt. Sta. Note 63,2 p. Oct. 1950. 1.9 F76252S

DEITSCHMAN, G. H. Seedling survival and height growth on graded and ungraded strip-mined land in southern Illinois. U. S. Forest Serv. Cent. States Forest Expt. Sta. Note 62,2 p. Oct. 1950. 1.9 F76252S

EICKNER, H. W., and SCHOWALTER, W. E. A study of methods for preparing clad 24S-T3 aluminum-alloy sheet surfaces for adhesive bonding. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1813,14 p. May 1950. 1.9 F761R

GERRY, E. Limba (afara, fraké, korina). *Terminalia superba* Engl. et Diels, family: Combretaceae. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1778,7 p. 1950. 1.9 F761R

KAYLOR, J. F. State forestry during the past 75 years. Washington, U. S. Forest Serv., 1950. 5 p. 1.962 A2St272

Address, 75th anniversary of the American Forestry Association, Oct. 9, 1950, Wisconsin.

KIMMEY, J. W. Cull factors for forest-tree species in northwestern California. U. S. Forest Serv. Calif. Forest & Range Expt. Sta. Forest Survey Release 7,30 p. June 1, 1950. 1.9 F7626F

LIMSTROM, G. A. Overburden analyses and strip-mine conditions in mideastern Ohio. U. S. Forest Serv. Cent. States Forest Expt. Sta. Tech. Paper 117, 33 p. Oct. 1950. 1.9622 C3T222

LISKA, J. A. Effect of rapid loading on the compressive and flexural strength of wood. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1767,10 p. June 1950. 1.9 F761R

MCCORMACK, J. F. Forest statistics for Florida, 1949. U. S. Forest Serv. Southeast. Forest Expt. Sta. Forest Survey Release 36,73 p. Oct. 1950. 1.9622 A3F76

MACLEAN, J. D. Results of experiments on the effectiveness of various preventatives in protecting wood against marine-borer attack. U. S. Forest Serv. Forest Prod. Lab. Rpt. D1773,19 p. June 1950. 1.9 F761R

MCMILLEN, J. M. Methods of determining the moisture content of wood. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1649,rev.,8 p. July 1950. 1.9 F761R

MOHAUPT, A. A., and HEEBINK, B. G. Repair of aircraft sandwich constructions. Supplement. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1584-A,8 p. May 1950. 1.9 F761R

NEETZEL, J. R., and ENGINE, S. A. What do fence posts cost on an annual basis? U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 341,2 p. Oct. 1950. 1.9 F7625T

NEFF, L. P. Classifying black spruce [*Picea mariana*] by tree vigor and dominance can aid the tree marker. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 344,2 p. Oct. 1950. 1.9 F7625T

NORRIS, C. B., and KOMMERS, W. J. Short-column compressive strength of sandwich constructions as affected by the size of the cells of honeycomb-core materials. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1817,7 p. Aug. 1950. 1.9 F761R

NORRIS, C. B. Strength of orthotropic materials subjected to combined stresses. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1816,19 p. July 1950. 1.9 F761R

PECK, E. C. Bending solid wood to form. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1764,29 p. Aug. 1950. 1.9 F761R

PECK, E. C. Moisture content of wood in use. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1655,rev.,4 p. June 1950. 1.9 F761R

PLUMMER, A. P., and FENLEY, J. M. Seasonal periods for planting grasses in the subalpine zone of central Utah. U. S. Forest Serv. Intermountain Forest & Range Expt. Sta. Res. Paper 18,12 p. Feb. 1950. 1.9622 I2R31

QUIGLEY, K. L. Marketing farm woodland products in the Missouri Ozarks. U. S. Forest Serv. Cent. States Forest Expt. Sta. Tech. P. 116,41 p. Sept. 1950. 1.9622 C3T222

ROE, E. I. Sawlogs from a young pine [*Pinus*] plantation. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 345,1 p. Oct. 1950. 1.9 F7625T

RUDOLF, P. O. Certifying forest seeds. U. S. Forest Serv. Lake States Forest Expt. Sta. Misc. Rpt. 14, 6 p. Ref. Sept. 1950. 1.9622 L2M68



SCHUBERT, G. H. Control of sprouting of tanoak [*Lithocarpus densiflora*] and madrone [*Arbutus menziesii*] stumps. U. S. Forest Serv. Calif. Forest & Range Expt. Sta. Forest Res. Note 74, 2 p. Sept. 15, 1950. 1.9 F7626R

SMITH, H. H. Further experiments in seasoning California black oak [*Quercus kelloggii*]. U. S. Forest Serv. Calif. Forest & Range Expt. Sta. Forest Res. Note 75, 8 p. Sept. 20, 1950. 1.9 F7626R

STOECKELER, J. H. How long can conifers be held in spring by cold storage? U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 343, 1 p. Oct. 1950. 1.9 F7625T

TORGESON, O. W., and SMITH, H. H. A furnace-type lumber dry kiln. U. S. Forest Serv. Forest Prod. Lab. Rpt. D1474, rev., 23 p. May 1950. 1.9 F761R

TROUSDELL, K. B. Seed and seedbed requirements to regenerate loblolly pine [*Pinus taeda*]. U. S. Forest Serv. Southeast. Forest Expt. Sta. Paper 8, 13 p. Nov. 1950. 1.9622 S4St2

U. S. FOREST SERV. Basic forest statistics for the United States as of January 1945. Washington, 1950. 14 p. 1.962 A2R29

U. S. FOREST SERV. DIV. OF FOREST ECONOMICS. Materials survey; lumber, railroad ties, veneer and plywood, poles and piles, compiled for the Materials Office, National Security Resources Board. Washington, 1950. 253 p. Ref. 1.962 F4M41

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. General recommendations regarding methods for wood waste utilization. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1666, rev., 2 p. Aug. 1950. 1.9 F761R

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Insulating boards from mill wastes, forest thinnings, and cull trees. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1762, 11 p. June 1950. 1.9 F761R

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Insulation board, wallboard, and hardboard. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1677, rev., 5 p. July 1950. 1.9 F761R

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on the mechanical properties and structural uses of wood and wood products. U. S. Forest Serv. Forest Prod. Lab. Rpt. R200, rev., 48 p. Aug. 1950. 1.9 F761R

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Partial list of Government publications of interest to architects, builders, engineers, and retail lumbermen. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1081, 19 p. July 1950. 1.9 F761R

WERREN, F. Effect of prestressing in tension or compression on the mechanical properties of two glass-fabric-base plastic laminates. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1811, 12 p. Sept. 1950. 1.9 F761R

#### HUMAN NUTRITION AND HOME ECONOMICS, BUREAU OF

CONFERENCE ON NUTRITION PROBLEMS IN LATIN AMERICA, 2, RIO DE JANEIRO, 1950. DELEGATION FROM THE UNITED STATES. The second Conference on Nutrition Problems in Latin America convened by the Food and Agriculture Organization of the United Nations, Rio de Janeiro, Brazil, June 5-13, 1950. Report of Delegate [H. K. Stiebelling] of the United States of America. Washington, U. S. Bur. Human Nutr. & Home Econ., 1950. 6 p. 1.982 A2Se2

STIEBELING, H. K. Food—an international concern. Washington, U. S. Bur. Human Nutr. & Home Econ., 1950. 8 p. 1.982 A2St5

Address before the American Dietetic Association annual meeting, Washington, D. C., Oct. 17, 1950.

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Home food preservation by city families, 1947. U. S. Bur. Human Nutr. & Home Econ. 1948 Food Consumption Surveys. Prelim. Rpt. 15, 9 p. Nov. 1950. 1.982 A2F738

#### INFORMATION, OFFICE OF

GAPEN, K. M. Television and extension work. Washington, U. S. D. A., Off. Inform., 1950. 5 p. 1.914 R2G15

Talk at annual conference of the American Association of Agricultural College Editors, Sept. 6-9, 1950, at Mo-Ranch, Texas.

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Defense controls and farm supplies, by R. S. Trigg and K. M. Gapen. Washington, 1950. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. What lies ahead for corn and livestock, by F. K. Woolley, H. E. Reed, and K. M. Gapen. Washington, 1950. 4 p. 1.914 R2R11

#### LIBRARY

U. S. DEPT. OF AGRICULTURE. LIBRARY. The forest resources and industries of the Caribbean area; general status of knowledge as shown by a brief survey of readily available literature, by F. J. Flick. Washington, 1950. 7 p. 1.916 F762

#### PRODUCTION AND MARKETING ADMINISTRATION

BRIGGS, M. S. The U. S. Department of Agriculture and gum naval stores prices. Washington, U. S. Prod. & Mktg. Admin., 1950. 10 p. 1.956 Sp3B76  
Talk at convention of Georgia Farm Bureau Federation, Macon, Nov. 7, 1950.

KRUSE, E. F. CCC—what it is—what it does—whom it benefits. Washington, U. S. Prod. & Mktg. Admin. 1950. 5 p. 1.956 A2K94

Summary of remarks before the Connecticut State PMA meeting, Farmington, Nov. 28, 1950.

NICKERSON, D. Certain color changes in cotton under artificial lighting. Washington, U. S. Prod. & Mktg. Admin., 1950. 10 p. 1.956 C82N53

Paper given before the Optical Society of America, Cleveland, Oct. 26-28, 1950.

RICHARDS, P. What the defense effort means to dairying. Washington, U. S. Prod. & Mktg. Admin., 1950. 11 p. 1.956 A2R39

Talk before the National Milk Producers' Federation, Minneapolis, Nov. 14, 1950.

U. S. PRODUCTION AND MARKETING ADMIN. Comparative fiber and spinning test results for some cottons grown at Florence, S. C., crop of 1949. Washington, 1950. 11 p. 1.956 C82C732

U. S. PRODUCTION AND MARKETING ADMIN. Cottonseed quality in the United States, 1949. Washington, 1950. 30 p. 1.956 C82C824

U. S. PRODUCTION AND MARKETING ADMIN. Handbook for the management of records and communications. Washington, 1950. 55 p. 1.956 A2H192

U. S. PRODUCTION AND MARKETING ADMIN. Notices of judgment under the Federal Insecticide, Fungicide, and Rodenticide Act, 1-25. Washington, 1950. 12 p. 1.956 A2N844

U. S. PRODUCTION AND MARKETING ADMIN. The outlook for cotton insecticides in 1951. Washington, 1950. 4 p. 1.956 C82Ou8

U. S. Bureau of Entomology and Plant Quarantine cooperating.

U. S. PRODUCTION AND MARKETING ADMIN. Periodic market reports of the Production and Marketing Administration. Washington, 1950. 30 p. 1.9422 A8R293

U. S. PRODUCTION AND MARKETING ADMIN. School lunch and food distribution programs, selected statistics, fiscal years 1939-50. Washington, 1950. 15 p. 1.956 F732Sch6

U. S. PRODUCTION AND MARKETING ADMIN. Summary of State and regional cold storage holdings for 1949. Washington, 1950. 46 p. 1.956 M34Su62

WRIGHT, J. W. Research in cotton marketing and its significance to breeders and spinners. Washington, U. S. Prod. & Mktg. Admin., 1950. 7 p. 1.9422 C2W93

Address, Cotton Spinner-Breeder Conference, El Paso, Sept. 11, 1950.

#### RURAL ELECTRIFICATION ADMINISTRATION

U. S. RURAL ELECTRIFICATION ADMIN. A history of the Finance Division of the Rural Electrification Administration; the first fifteen years, by J. F. Marion. Washington, 1950. 49 p. 1.933 H62

U. S. RURAL ELECTRIFICATION ADMIN. Number and percentage of farms electrified with Central Station service, by States, 1935, 1945 and 1950. Washington, 1950. 1 p. 1.933 N91



## SECRETARY, OFFICE OF

BRANNAN, C. F. Hemispheric strength through a mutually prosperous agriculture. Washington, U. S. D. A., Off. Sec., 1950. 9 p. 1.91 A2B73  
Address, Inter-American Conference on Agriculture and Second Latin American Regional Meeting of the United Nations Food and Agriculture Organization, Montevideo, Dec. 4, 1950.

BRANNAN, C. F. Land and liberty. Washington, U. S. D. A., Off. Sec., 1950. 11 p. 1.91 A2B73  
Talk at meeting of North Dakota Farmers Union, Bismarck, North Dakota, Nov. 18, 1950.

## SOIL CONSERVATION SERVICE

BENNETT, H. H. Maintaining soil and water conservation progress. Washington, U. S. Soil Conserv. Serv., 1950. 10 p. 1.96 Ad62

Address at meeting, West Virginia Soil Conservation Districts Boards of Supervisors, Jackson's Mill, Nov. 15, 1950.

MEEKS, T. O. Reconnaissance of ground-water conditions in the Uncompahgre Valley, Colorado. U. S. Soil Conserv. Serv. Region. B. 112, 27 p. Sept. 1950 27 p. 1.9608 R26

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Chautauqua County, Kansas. Manhattan, 1950. 22 p. 1.96 L22Ph

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Clay County, Kansas. Manhattan, 1950. 23 p. 1.96 L22Ph

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Greenwood County, Kansas. Manhattan, 1950. 19 p. 1.96 L22Ph

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Harvey County, Kansas. Manhattan, 1950. 25 p. 1.96 L22Ph

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Johnson County, Kansas. Manhattan, 1950. 18 p. 1.96 L22Ph

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Lincoln County, Kansas. Manhattan, 1950. 23 p. 1.96 L22Ph

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Riley County, Kansas. Manhattan, 1950. 20 p. 1.96 L22Ph

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Rush County, Kansas. Manhattan, 1950. 19 p. 1.96 L22Ph

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Thomas County, Kansas. Manhattan, 1950. 16 p. 1.96 L22Ph



STATE AGRICULTURAL EXPERIMENT STATIONPUBLICATIONS

February 1951

Includes State Agricultural Experiment Station publications received in the library during the preceding month.

Publications issued by the State Agricultural Experiment Stations are not available from the U. S. Department of Agriculture but are often available from the publishing experiment station.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Arkansas Agricultural Experiment Station, Fayetteville

ADAIR, C. R., and CRALLEY, E. M. 1949 rice yield and disease control tests. Ark. Agr. Expt. Sta. Rpt. Ser. 15,20 p. Feb.1950. 100 Ar42R

California Agricultural Experiment Station, Berkeley

FOYTIK, J. California plums; economic status. 1950. Calif. Agr. Expt. Sta. C. 398,26 p. Oct.1950. 100 C12S

CALIFORNIA agriculture 4(11),16 p. Nov. 1950. 100 C12Cag

HILGARDIA 20(4-9):57-182. July-Sept.1950. 100 C12H

Florida Agricultural Experiment Station, Gainesville

BROOKE, D. L., and SPURLOCK, A. H. Labor and material requirements, costs of production and returns on Florida tomatoes. Fla. Agr. Expt. Sta. B. 474, 34 p. Sept.1950. 100 F66S

GAMMON, N., JR., and others. First-year yields from Louisiana white clover-Dallis grass [*Paspalum dilatatum*] pasture plots on Carnegie and Tifton fine sandy loams. Fla. Agr. Expt. Sta. C. S-19,5 p. Sept. 1950. 100 F66C1

H. W. Lundy, J. R. Neller, and R. A. Carrigan, joint authors.

MEHRHOF, N. R., DAVIS, G. K., and DRIGGERS, J. C. Ramie meal in chick rations. Fla. Agr. Expt. Sta. C. S-20,5 p. Oct.1950. 100 F66C1

Georgia Agricultural Experiment Station, Experiment

BROOKS, O. L. Corn production in North Georgia. Ga. Agr. Expt. Sta. B. 264,35 p. June 1950. 100 G29S

Georgia Mountain Experiment Station and the Tennessee Valley Authority cooperating.

DUPREE, M., and BECKHAM, C. M. Progress report—control of pickleworm [*Diaphania nitidalis*] on cucurbits. Ga. Agr. Expt. Sta. Mimeog. Ser. 15,8 p. Feb.20,1950. 100 G29M

DIXON, R. D., and FARIS, E. T. Markets for forest products in central and north Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 22,102 p. June 1950. 100 G29M

FORD, K. E. Waste and spoilage losses in merchandising sweet potatoes at the retail store. Ga. Agr. Expt. Sta. Mimeog. Ser. 24,8 p. July 1950. 100 G29M

BROOKS, O. L., and MCKINNEY, W. H. Progress report on the utilization of perennial grazing, Ladino clover and tall fescue [*Festuca elatior*]. Ga. Agr. Expt. Sta. Mimeog. Ser. 26,3 p. Aug.1950. 100 G29M

Georgia Mountain Experiment Station cooperating.

FULLILOVE, W. T., and ELROD, J. C. Cotton production practices and cost in the Lower Coastal Plain of Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 27,31 p. Sept.1950. 100 G29M

FULLILOVE, W. T., and ELROD, J. S. Spanish peanut production practices and costs in the Coastal Plain of Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 28,17 p. Sept.1950. 100 G29M

FULLILOVE, W. T., and ELROD, J. C. Oat production practices and costs in the Piedmont of Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 29,12 p. Oct.1950. 100 G29M

HARRINGTON, B. J. Okra production practices and costs in the Lower Coastal Plain of Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 30,20 p. Oct.1950. 100 G29M

Illinois Agricultural Experiment Station, Urbana

LORENZ, R. W., and FOX, H. W. Returns from pruning a young red pine [*Pinus resinosa*] plantation for Christmas greens. Ill. Agr. Expt. Sta. Dept. Forestry, Forestry Note 18,3 p. Nov.27,1950. 99.9 IL62

FEHRENBACHER, J. B., SMITH, R. S., and ODELL, R. T. Christian County soils. Ill. Agr. Expt. Sta. Soil Rpt. 73,62 p. Aug.1950. 100 IL68o

Maine Agricultural Experiment Station, Orono

BONDE, R. Factors affecting potato blackleg and seed-piece decay. Maine. Agr. Expt. Sta. B. 482, 31 p. Ref. May 1950. 100 M28S

TREVETT, M. F. Use of fertilizer for Maine blueberries. Maine. Agr. Expt. Sta. Mimeog. Rpt. 8,11 p. Feb.1950. 100 M28M

SCHRUMPF, W. E. Maine snap beans, sweet corn, and green peas for processing; trends in acreage, production, yield rate, consumption and price with comparisons from selected States and the United States. Maine. Agr. Expt. Sta. Mimeog. Rpt. 11,40 p. Mar.1950. 100 M28M

Minnesota Agricultural Experiment Station, University Farm, St. Paul

MINNESOTA farm and home science 8(1),16 p. Oct.1950. 100 M668

Mississippi Agricultural Experiment Station, State College

CHRISTIAN, W. E., JR., and DOYLE, B. K. Mississippi seed industry. Miss. Agr. Expt. Sta. C. 153, 14 p. June 1950. 100 M69

MISSISSIPPI farm research 13(10),8 p. Oct. 1950. 100 M69M1

Missouri Agricultural Experiment Station, Columbia

MISSOURI AGRICULTURAL EXPERIMENT STATION. Available publications. Mo. Agr. Expt. Sta. Serv. C. 142,7 p. Oct.1950. 100 M693Se

Experiment Station and Extension Service publications.

New Hampshire Agricultural Experiment Station, Durham

YEAGER, A. F. Breeding improved horticultural plants. II. Fruits, nuts, and ornamentals. N. H. Agr. Expt. Sta. B. 383,16 p. June 1950. 100 N45

New York (Cornell) Agricultural Experiment Station, Ithaca

EADIE, W. R. New techniques in control of orchard mice. N. Y. (Cornell) Agr. Expt. Sta. B. 856, 16 p. Aug.1950. 100 N48C

New York (State) Agricultural Experiment Station, Geneva

KERTESZ, Z. I., and MCCOLLOCH, R. J. The pectic substances of mature John Baer tomatoes. N. Y. (State) Agr. Expt. Sta. B. 745,15 p. Ref. Aug.1950. 100 N48



NEW YORK (STATE) AGRICULTURAL EXPERIMENT STATION. Available publications. N. Y. (State) Agr. Expt. Sta. C. 105, rev., 8 p. Nov. 1, 1950. 100 N48

FARM research 16(4), 16 p. Oct. 1950. 100 N48A

North Carolina Agricultural Experiment Station, State College Station, Raleigh

COTTON, W. P. Consumption of dairy products in rural North Carolina. N. C. Agr. Expt. Sta. B. 372, 30 p. Oct. 1950. 100 N81

MIDDLETON, G. K., and HEBERT, T. T. Atlas wheat. N. C. Agr. Expt. Sta. Spec. C. 8, 8 p. Sept. 1950. 100 N81Sp

MIDDLETON, G. K., and HEBERT, T. T. Colonial barley. N. C. Agr. Expt. Sta. Spec. C. 9, 8 p. May 1950. 100 N81Sp

MORROW, E. B., and DARROW, G. M. The Murphy and Wolcott blueberry varieties. N. C. Agr. Expt. Sta. Spec. C. 10, 7 p. June 1950. 100 N81Sp

MASON, J. E., and FORSTER, G. W. Inventory of land use in North Carolina with special reference to public land areas. N. C. Agr. Expt. Sta. Tech. B. 93, 42 p. Nov. 1950. 100 N81

Oklahoma Agricultural Experiment Station, Stillwater

ROSS, O. B., MACVICAR, R. W., and STEPHENS, D. F. Feeding trials with mineral and protein supplements for two- and three-year-old steers. Okla. Agr. Expt. Sta. B. B-359, 18 p. Ref. Oct. 1950. 100 Ok4

Oregon Agricultural Experiment Station, Corvallis

NELSON, O. M., and others. Importance of ram breed in fat lamb production. Oreg. Agr. Expt. Sta. Sta. B. 489, 4 p. Oct. 1950. 100 Or3

A. W. Oliver, G. B. McLeroy, and R. Bogart, joint authors.

Pennsylvania Agricultural Experiment Station, State College

BRESSLER, G. O. Labor saving on small Pennsylvania poultry farms. Pa. Agr. Expt. Sta. B. 532-P, 6 p. Aug. 1950. 100 P381

NISSEN, O., MEYER, H. A., and RICHER, A. C. Trends and variations in yields from the Jordan Fertility Plots. Pa. Agr. Expt. Sta. B. 533, 18 p. Oct. 1950. 100 P381

South Carolina Agricultural Experiment Station, Clemson

SMITH, C. R. Farmers' mutual fire insurance companies in South Carolina. S. C. Agr. Expt. Sta. B. 385, 32 p. June 1950. 100 So8

SMITH, J. R., and FERRIER, W. T. Cotton buying procedures and practices of South Carolina cotton mills. S. C. Agr. Expt. Sta. B. 388, 40 p. Ref. July 1950. 100 So8

South Dakota Agricultural Experiment Station, Brookings

KUMLIEN, W. F. Community school districts in the making. S. Dak. Agr. Expt. Sta. B. 404, 32 p. June 1950. 100 So82

Tennessee Agricultural Experiment Station, Knoxville

BONSER, H. J. Some factors in farm organization and returns to tenants and landlords by type of leasing arrangements, west Tennessee, 1947. Tenn. Agr. Expt. Sta. B. 217, 58 p. June 1950. 100 T25S

RASKOPF, B. D., and HALL, C. R. Cotton marketing practices of growers, ginnors, and buyers in Tennessee. Tenn. Agr. Expt. Sta. Rur. Res. Ser. Monog. 262, 38 p. Nov. 16, 1950. 173.2 W89Co

Texas Agricultural Experiment Station, College Station

TEXAS. AGRICULTURAL EXPERIMENT STATION. A handbook of peanut growing in the Southwest. Tex. Agr. Expt. Sta. B. 727, 31 p. Nov. 1950. 100 T31S  
Oklahoma Agricultural Experiment Station cooperating, and issued as Bulletin B-361 of that Station.

STIVER, E. N., COLLIER, J. W., and JOHNSTON, J. R. Crop variety tests at the Blackland Experiment Station, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1281, 6 p. Oct. 6, 1950. 100 T31P

FUGETT, K. A., BAKER, C. K., and MAYES, H. M. Schedule for pricing Texas citrus according to containers. Tex. Agr. Expt. Sta. Prog. Rpt. 1290, 8 p. Nov. 15, 1950. 100 T31P

Utah Agricultural Experiment Station, Logan

BELL, T. D., and others. Rambouillet and Columbia-Rambouillet lambs on the range and in the feed lot. Utah. Agr. Expt. Sta. B. 341, 20 p. Ref. Sept. 1950. 100 Utl

M. A. Madsen, J. A. Bennett, L. L. Madsen, and D. C. Schmultz, joint authors.

Washington Agricultural Experiment Station, Pullman

WASHINGTON. AGRICULTURAL EXPERIMENT STATION. Soil, water, and crop management investigations in the Columbia Basin Project. Wash. Agr. Expt. Sta. B. 520, 75 p. Nov. 1950. 100 W27E  
U. S. Department of Agriculture cooperating.

West Virginia Agricultural Experiment Station, Morgantown

WEST VIRGINIA. AGRICULTURAL EXPERIMENT STATION. Science serves your farm; biennial report, 1948/50. W. Va. Agr. Expt. Sta. B. 342, 38 p. Sept. 1950. 100 V52

Wisconsin Agricultural Experiment Station, Madison

MORTENSON, W. P., and GRAF, T. F. Marketing eggs in the Lake States. Wis. Agr. Expt. Sta. Res. B. 168, 32 p. July 1950. 100 W75

COOK, H. L., and HALVORSON, H. Industrial uses and preferences for nonfat dry milk solids. Wis. Agr. Expt. Sta. Res. B. 169, 47 p. Aug. 1950. 100 W75

Wyoming Agricultural Experiment Station, Laramie

BOHMONT, D. W. Cody, a new oat for Wyoming. Wyo. Agr. Expt. Sta. B. 301, 3 p. Sept. 1950. 100 W99

BARNES, O. K., and NELSON, A. L. Dryland pastures for the Great Plains. Wyo. Agr. Expt. Sta. B. 302, 30 p. Oct. 1950. 100 W99

DUNNEWALD, T. J. Improving native hay meadows in Wyoming. Wyo. Agr. Expt. Sta. C. 38, 20 p. Ref. Oct. 1950. 100 W99



### STATE AGRICULTURAL EXTENSION SERVICE PUBLICATIONS

Includes State Agricultural Extension Service publications received in the library during the preceding month.

Publications issued by the State Agricultural Extension Services are not available from the U. S. Department of Agriculture but are often available from the publishing extension service.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

#### Arkansas University, College of Agriculture, Agricultural Extension Service, Little Rock

ARKANSAS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Life on Arkansas farms; annual report, 1949. Ark. Agr. Col. Ext. C. 468, 23 p. Dec. 1949. 275.29 Ar4

#### California University, College of Agriculture, Agricultural Extension Service, Berkeley

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1949 citrus production cost study; lemons & grapefruit, San Bernardino County, ten year summary, 1940-1949, by W. Sullivan and J. A. Beutel. Berkeley, 1950? 12 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1949 orange production cost study; Navels & Valencias, San Bernardino County, ten year summary, 1940-1949, by W. Sullivan and J. A. Beutel. Berkeley, 1950? 12 p. 275.29 C12En

#### Connecticut University, College of Agriculture, Agricultural Extension Service, Storrs

PUTNAM, P. L., and MCKAIN, W. C., JR. A retirement guide for Connecticut farmers. Conn. Agr. Col. Ext. Folder 43,8 p. Aug. 1950. 275.29 C76Ex

VAN DYKE, A. W. Words that sell apples. Conn. Agr. Col. Ext. L. 10,4 p. Oct. 1950. 275.29 C76B

CONNECTICUT. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Apple spray guide, 1950, by F. D. Johanson, P. Garman, and E. M. Stoddard. Storrs, 1950. 4 p. 275.29 C76Ap

CONNECTICUT. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. The thirty-first Connecticut home egg-laying contest; summary issue for the year October 1, 1949 to September 30, 1950, by R. E. Jones. Storrs, 1950. 8 p. 275.29 C76C

#### Hawaii University, Agricultural Extension Service, Honolulu

NAKAGAWA, Y. Some common insecticidal and fungicidal spray and dust mixtures. Hawaii. U. Agr. Ext. C. 292,10 p. Oct. 1950. 275.29 H312Ac

#### Kansas State College of Agriculture and Applied Science, Extension Service, Manhattan

KANSAS. STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE. Kansas 4-H Club opportunities. Kans. State Col. Agr. Ext. L. 6,6 p.-folder. June 1950. 275.29 K13Le

#### Kentucky University, College of Agriculture and Home Economics, Extension Service, Lexington

LACY, E., and others. Foods project for 4-H Clubs; supper or luncheon. Ky. Agr. Col. Ext. 4-H 1003, 16 p. June 1950. 275.29 K415Fh  
D. Gentry, M. Gulley, and L. Sutherland, joint authors.

LACY, E., and others. Clothing project for 4-H Clubs; play and work clothes, comfortable, serviceable, attractive. Ky. Agr. Col. Ext. 4-H 1036,9 p. Apr. 1950. 275.29 K415Fh

D. Gentry, L. Sutherland, and M. Gulley, joint authors. LACY, E., and others. Clothing project for 4-H Clubs; tailored suit or ensemble. Ky. Agr. Col. Ext. 4-H 1040,11 p. Mar. 1950. 275.29 K415Kh

D. Gentry, L. Sutherland, and M. Gulley, joint authors. JONES, C. W., and GIBSON, H. B. Games for 4-H and Utopia Clubs. Ky. Agr. Col. Ext. 4-H 1148,35 p. Mar. 1950. 275.29 K415Fh

#### Massachusetts, University, School of Agriculture, Extension Service, Amherst

FOLEY, M. E. Vegetables in your meals. Mass. U. Agr. Ext. L. 71, rev.,32 p. Sept. 1950. 275.29 M38IL

COOLEY, E. Make a dress. Mass. U. Agr. Ext. L. 161,27 p. Sept. 1950. 275.29 M38IL

LARSON, N. M. Your school age child. Mass. U. Agr. Ext. L. 252,12 p. July 1950. 275.29 M38IL

BAMESBERGER, E. Make a slip cover. Mass. U. Agr. Ext. Spec. C. 169,24 p. May 1950. 275.29 M38ISc

#### New Hampshire University, College of Agriculture and the Mechanic Arts, Extension Service, Durham

COLBY, H. N., and WARREN, R. Three-story 36 X 36 poultry house. N. H. Agr. Col. Ext. Poultry Housing Ser. 2,4 p. 1950? 275.29 N452P

RINGROSE, R. C., and others. 8' x 8' closed end range shelter. N. H. Agr. Col. Ext. Poultry Housing Ser. 4,4 p. June 1950. 275.29 N452P

P. A. Wilcox, R. Warren, and H. N. Colby, joint authors.

#### New York State College of Agriculture and Home Economics, Extension Service, Cornell University, Ithaca

WRIGHT, F. E. Refinishing old furniture: natural finishes. N. Y. Agr. Col. Cornell Ext. B. 295, rev.,32 p. Nov. 1950. 275.29 N48E

TURK, K. L., and CRANDALL, W. T. Feeding the dairy cow efficiently. N. Y. Agr. Col. Cornell Ext. B. 363, rev.,55 p. Nov. 1950. 275.29 N48E

WRIGHT, F. E. Three centuries of furniture. N. Y. Agr. Col. Cornell Ext. B. 672,rev.,67 p. Nov. 1950. 275.29 N48E

CROSBY, M. W., and HARRIS, K. W. Purchasing food for fifty. N. Y. Agr. Col. Cornell Ext. B. 803, 18 p. Nov. 1950. 275.29 N48E

HART, V. B., and KENDRICK, M. S. 1950 income-tax returns suggestions for farmers. N. Y. Agr. Col. Cornell Ext. B. 809,32 p. Nov. 1950. 275.29 N48E

DUNN, M., and VOLLMER, E. Muffins and quick-loaf breads. N. Y. Agr. Col. Ext. Cornell 4-H Club B. 92,14 p. Sept. 1950. 275.29 N48Cn

#### North Carolina University, State College of Agriculture and Engineering, Extension Service, State College Station, Raleigh

BUCHANAN, J. S. Raising sheep in North Carolina. N. C. Agr. Col. Ext. C. 356,16 p. Nov. 1950. 275.29 N811

HARRIS, J. Landscaping church grounds. N. C. Agr. Col. Ext. C. 357,8 p. Nov. 1950. 275.29 N811

NORTH CAROLINA. UNIVERSITY. STATE COLLEGE OF AGRICULTURE AND ENGINEERING. EXTENSION SERV. Farmer's 1950 income tax. N. C. Agr. Col. Ext. C. 358,24 p. Oct. 1950. 275.29 N811

#### North Dakota Agricultural College, Extension Service, State College Station, Fargo

BREKKE, J. E. Buying a sewing machine. N. Dak. Agr. Col. Ext. C. A-147,6 p. 1950? 275.29 N812Sa



EVELETH, D. F., and HOLM, G. C. The milk ring test for the diagnosis of brucellosis. N. Dak. Agr. Col. Ext. C. A-150, 4 p.-folder. June 1950. 275.29 N812Sa

Oklahoma Agricultural and Mechanical College, Extension Division, Stillwater

PHAGAN, C. V. Farm sewage disposal. Okla. Agr. Col. Ext. C. 339, 15 p. n.d. 275.29 Ok41C  
ARMSTRONG, O. Short cuts in home sewing. Okla. Agr. Col. Ext. C. 396, 14 p. n.d. 275.29 Ok41C  
OKLAHOMA. AGRICULTURAL AND MECHANICAL COLLEGE. EXTENSION DIV. Seven principles of successful farming in Oklahoma. Okla. Agr. Col. Ext. C. 446, 8 p.-folder. n.d. 275.29 Ok41C  
DURHAM, S. B. Pastures in Oklahoma. Okla. Agr. Col. Ext. C. 482, 19 p. n.d. 275.29 Ok41C

Oregon State College, Federal Cooperative Extension Service, Corvallis

OREGON. STATE COLLEGE. FEDERAL COOPERATIVE EXTENSION SERV. Oregon's small fruit crops, 1936-1949; statistical yearbook. Oreg. State Col. Ext. B. 710, 19 p. Aug. 1950. 275.29 Or32B

Pennsylvania State College, Agricultural Extension Service, State College

BARTON, M. B. Make your sewing machine work for you. Pa. State Col. Agr. Ext. C. 366, 9 p. Oct. 1950. 275.29 P38C  
BITTNER, C. S., and NICHOLS, L. F. Growing small fruits for home use. Pa. State Col. Agr. Ext. C. 368, 12 p. Oct. 1950. 275.29 P38C  
RASMUSSEN, A. O. Some interesting perennials for the home grounds. Pa. State Col. Agr. Ext. C. 370, 16 p. Oct. 1950. 275.29 P38C  
LYNCH, M. R., and PARKIN, I. E. Milking machine care. Pa. State Col. Agr. Ext. L. 134, 15 p. Aug. 1950. 275.29 P38L  
WARREN, S., JOHNSON, M., and RISSINGER, M. Apple time. Pa. State Col. Agr. Ext. L. 135, 5 p. Oct. 1950. 275.29 P38L  
RASMUSSEN, A. O., KIRBY, R. S., and PEP-  
PER, J. O. Hybrid Delphinium. Pa. State Col. Agr. Ext. L. 137, 4 p. Sept. 1950. 275.29 P38L  
RASMUSSEN, A. O., KIRBY, R. S., and PEP-  
PER, J. O. Gladiolus. Pa. State Col. Agr. Ext. L. 138, 4 p. Sept. 1950. 275.29 P38L  
RASMUSSEN, A. O., KIRBY, R. S., and PEP-  
PER, J. O. Peonies. Pa. State Col. Agr. Ext. L. 139, 4 p. Sept. 1950. 275.29 P38L  
RASMUSSEN, A. O., KIRBY, R. S., and PEP-  
PER, J. O. Hardy Chrysanthemums. Pa. State Col. Ext. L. 140, 4 p. Sept. 1950. 275.29 P38L  
RASMUSSEN, A. O., KIRBY, R. S., and PEP-  
PER, J. O. Dahlias. Pa. State Col. Agr. Ext. L. 141, 4 p. Sept. 1950. 275.29 P38L

Utah State Agricultural College, Extension Service, Logan

TAYLOR, M. H. Livestock purchase and sale contracts. Utah. State Agr. Col. Ext. B. 211, 8 p. Oct. 1950. 275.29 U11

TAYLOR, M. H. Farm cooperatives in Utah; a directory. Utah. State Agr. Col. Ext. M. S. 483, rev., 17 p. Apr. 1950. 275.29 U11Ms

Washington State College, Extension Service, Pullman

WASHINGTON. STATE COLLEGE. EXTENSION SERV. Raising dairy calves. Wash. State Col. Ext. B. 269, rev., 31 p. Oct. 1950. 275.29 W27P  
Washington State College, Department of Dairy Husbandry cooperating.  
STURGIS, L. C. A coordinated closetful—the basic wardrobe. Wash. State Col. Ext. B. 429, 8 p. Aug. 1950. 275.29 W27P  
LUSK, M. Your tailored outfit; 4-H clothing plan X. Wash. State Col. Ext. B. 433, 8 p. Sept. 1950. 275.29 W27P  
MILLER, J. P., and JACKSON, D. D. 4-H poultry judging. Wash. State Col. Ext. B. 434, 23 p. Nov. 1950. 275.29 W27P  
WASHINGTON. STATE COLLEGE. EXTENSION SERV. Know your fertilizers. Wash. State Col. Ext. C. 160, 6 p.-folder. Oct. 1950. 275.29 W27C  
HOBSON, K. Keeping up on the farm outlook. Wash. State Col. Ext. C. 162, 6 p.-folder. Sept. 30, 1950. 275.29 W27C

West Virginia University, College of Agriculture, Agricultural Extension Service, Morgantown

WASMUTH, G., and WATERS, H. T. Better home lighting. W. Va. Agr. Col. Ext. Good Living Ser. 17, Adventures Broader Horizons. Lesson 14, 6 p. n.d. 275.29 W522G

Wisconsin University, College of Agriculture, Agricultural Extension Service, Madison

AHLGREN, H. L., and BURCALOW, F. V. Bromegrass [Bromus] and alfalfa for hay, pasture or silage. Wis. Agr. Col. Ext. C. 344, rev., 12 p. June 1950. 275.29 W75C  
PEARSON, H., and MELOCHE, G. Clothes for children. Wis. Agr. Col. Ext. Spec. C., rev., 7 p. Aug. 1950. 275.29 W75S  
BRUHN, H. D., and BERGE, O. I. Plows and plowing. Wis. Agr. Col. Ext. Spec. C. 16, 8 p. Aug. 1950. 275.29 W75S  
ALLEN, N. N., BOHSTEDT, G., and DUFFEE, F. W. How about grass silage? Some suggestions on making and feeding it. Wis. Agr. Col. Ext. Stencil C. 277, rev., 13 p. Aug. 1950. 275.29 W75B  
WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. DEPT. OF VETERINARY SCIENCE. Tapeworms of poultry. Wis. Agr. Col. Ext. Stencil C. 324, 5 p.-folder. Aug. 1950. 275.29 W75B  
WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Merchandising handbook for retailers of fresh fruits and vegetables. Wis. Agr. Col. Ext. Stencil C. 325, 47 p. Aug. 1950. 275.29 W75B

Wyoming University, College of Agriculture, Agricultural Extension Service, Laramie

SMITH, E. J., and MCDOWELL, A. Meals the 4-H way. III. Wyo. Agr. Col. Ext. C. 115, 58 p. Sept. 1950. 275.29 W99C



FOOD AND AGRICULTURE ORGANIZATION OF THE  
UNITED NATIONS

Includes publications received in the library during the preceding month.

FOOD and agriculture 3:131-196. July/Sept. 1950. 389.8 F7326

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Commodity reports: grain. Washington, 1950. 16 p. 281.3599 F73Co

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Commodity reports: sugar. Washington, 1950. 29 p. 281.3659 F73

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. FAO conference, fifth session, 21 November 1949, Washington, D. C. Commission II. FAO pre-conference regional meetings, September-October 1949. n. p., 1949. 9 p. (C49/II/4) 389.9 F7357

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. FAO conference, fifth session, Washington, D. C., 21 November 1949. Commission II. Technical assistance for economic development—analysis of views received and methods applicable. n. p., 1949. 17 p. (C 49/II/2) 389.9 F7357

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Food and agricultural statistics; monthly bulletin, 3(12), 32 p. Dec. 1950. 251 F73M

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Work of FAO 1949/50; report of the director-general. Washington, 1950. 89 p. 389.9 F735Dg

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. ECONOMICS, MARKETING AND STATISTICS DIV. Progress and economic problems in farm mechanization, prepared by A. M. Acock. Washington, 1950. 87 p. 58 F733

Mechanization.

TRESSLER, D. K., ed. Some aspects of food refrigeration and freezing. Food & Agr. Organ. United Nations. FAO Agr. Studies 12, 204 p. Nov. 1950. 28 F73



Item	Item	Item	Item	Item
Aaberg H 16677	Alberts J O 14102	American 11556	André É 11181	Armstrong J B 12944
Aaberg H C 13196	Albin J S 14378	Association of 11556	Andresen A 17032	Armstrong O 18109
Abbayes H des 10599	Albiston H F 14400	Nurserymen 16216	Andresen N 13637	Armstrong P S 11639
Abbiss H W 17347	Albl A 17348	American Asso- 16216	Andrews F N 13541	Arnell A 16844
Abdullaev A G 12271	Albora J M 14207	ciation of Tex- 16216	Andrews J M 15003	Arnold 16340
Abel P M 13916	Albrecht R 14208	tle Chemists 11025	Andrews R O 16556	Arnold C A 10438
Abercrombie 15100	Albrecht R 14559	and Colorists 11025	Andrews S 17349	Arnold F J 13305
R G	Albrecht R 15344	American 11025	Andrews S 17840	Arnold P T D 13314
Abithol J 11950	Albrecht W A 12188	Chlorophyll 11718	Andrabet P 11954	Aracena E T 12503
Abrahamsen 17837	Albrecht W A 12210	American Cran- 11718	Andronnikov 11380	Aronoff S 11028
M A	Albrecht W A 12211	berry Growers' 11718	T N	Aronoff S 11183
Abrahamson 10712	Albrecht W A 12272	Association 14109	Androuin P 14586	Aronoff S 11218
P E R	Aldrich S 12273	American Cy- 14109	Angell G N 12034	Arscott G H 14006
Abrahamson 16541	Aleem A A 10585	anamid Co 10585	Angell G N 15010	Arsenault L 16544
P E R	Aleem A A 10586	Lederle Lab- 10586	Angell G N 15532	Arsen'eva M V 10715
Abrams J T 14457	Aleem A A 10587	oratories Div 10587	Angell G N 16681	Artemenko V E 14700
Acerete A 11598	Aleem A A 10600	Animal Feed 17279	Angell H W 13059	Artemenko V E 14701
Acedo C 14510	Aleem A A 10713	Dept 16181	Angell J M 17350	Arthur I W 17688
Ackerman W 11777	Aleksandrov 11599	American 16181	Angerer 12388	Artfæv A A 13855
Ackerman W 15101	F A	Federation of 16181	Anglo-American 12538	Artushenko Z T 10934
Ackerman W 16462	Aleksandrov G 17278	Labor 16181	Council on 15912	Artz L 10899
Ackerson C W 14003	Aleksandrov L 17278	American Feed 17956	Productivity 11182	Arzumani E A 13542
Ackerson C W 14062	Alekseenko N S 15391	Manufacturers' 17956	Angulo A 15912	Asche A 16341
Ackerson C W 14063	Alexander C P 14956	Association 17956	Anheuser- 11182	Asch J 15103
Acock A M 15270	Alexander W H 15910	Feed Survey 17956	Busch 11027	Ashbrook F G 16795
Acock A M 15300	Algeo J W 13448	Committee 17956	Anishchenko N F 11027	Ashby W 15798
Acuña 12092	Algeria Inspec- 11565	Economics As- 17956	Anisimov A 12780	Ashenbrucker H 14528
Pacheco C	tion Generale 11617	sociation 17956	Ankudinov A M 10714	Asher T 13306
Adair C R 11256	et Direction 11617	Food and Nu- 17956	Anliker J 10436	Ashplant H 17027
Adair S T 17223	de l'Agriculture 11617	trition Div 17956	Anthony R D 12690	Ashplant H 17028
Adair W 17276	Algeria Inspec- 11617	Terminology 17956	Antipova L K 14889	Ashton G C 14474
Adams J A Jr 12470	tion Generale 11617	Committee 17956	Antonovich S N 14103	Ashton H 16217
Adams J L 14003	et Direction 11617	American Horse 13886	Anfsyshkin S P 12809	Ashton W M 13098
Adams J P 18029	de l'Agriculture 11617	Lumberman 12737	Anwyl J H 16662	Asland O J 15913
Adams M F 13625	Algeria Inspec- 12406	American Meat 16678	App B A 15460	Asland O J 16102
Adlersberg D 17955	tion Generale 12406	Institute 16678	Applewhite K H 14972	Asmundson V S 14213
Adsuar J 10836	et Direction 12406	American Meat 16679	Apt A C 14890	Asmundson V B 15345
Aehneit E 13539	de l'Agriculture 12406	Institute Founda- 16679	Aragon Leiva P 14104	Asociación 17841
Aerts W 15070	Alix J C 14209	tion 16679	Arango R 17157	Rural del 17841
Afanas'ev G V 12371	Allan P B M 15102	American Pulp 12973	Arbour M B 11257	Uruguay Junta 17841
African Vile 11778	Allard H A 10524	and Paper 12973	Arce J d' 13269	Directiva 17841
African Violet 11778	Allen C T 13323	Mill Super- 12973	Archambault 17225	Association of 16405
Society of	Allen H T 11779	intendents 12973	Archambault 17225	American Rail- 16405
America	Allen H T 11952	Association 12973	J L E 10898	roads 16405
Agapov S P 11951	Allen M W 12522	American So- 12973	Archbald D 14212	Refrigerator 16405
Agapov V V 15837	Allen N N 13097	clety of Bakery 12973	Arches M d' 14346	Car Research 16405
Agento Cecilia 14205	Allen N N 13449	Engineers 12973	Archimowitsch 11955	Association of 16405
C	Allen R S 13462	Trade Asso- 12973	K 13076	American Rail- 16405
Aggarwal J S 11186	Allen R S 13537	ciation 12973	Arcularius H 13076	roads 16405
Agrawal J S 10932	Allen W S 15643	Ameronger G J 17026	Ardikoesoema 13010	Refrigerator 16405
Aguilar R 15838	Alliger G 17025	van 17026	RI 12148	Car Research 16405
Ahl H 16101	Allouard P 12816	Ames L M 10601	Arena A 12148	Association of 15662
Ahlfeld H 17072	Allred B W 12033	Amess A H R 15911	Arend J L 12747	Official Agricul- 15662
Ahlgren H L 11379	Allred W J 10435	Amick W R 17835	Areses Vidal R 10437	tural Chemists 15662
Ahmad S 11023	Alluè Mores A 14210	Amos J M 14698	Argaillot L 13353	Astrego J J 11956
Ahrano F W 15435	Almeida O de 16018	Ampliglov A 13450	Argentina In- 10446	Atasagun Y S 17176
Alnes P D 13527	Almeida O de 16463	Anan'ev I 17302	stituto de 10446	Atkeson F W 13469
Alquel F 13264	Alper D E 15688	Anasagasti D H 13987	Fitotecnia 17048	Atkeson F W 13469
Airan J W 14206	Al'smik P I 10933	Anastas'lan S N 14398	Argentina Mini- 17048	Atkins H 13917
Aiton E W 17888	Althouse S L 14211	Anceschl L 13636	sterio de Agri- 17048	Atkins I M 11259
Ajmerito G 13749	Altmeier A J 17224	Andelsudvalget 17839	cultura y Gana- 17048	Atkinson F E 15787
Akademiā Nauk 11476	Altrogge L 16542	Andersen A 11664	deria 17048	Atkinson F E 16464
Turkmenkil	Altrogge L 16543	Andersen E T 11953	Div Analisis de 17048	Atkinson H J 12368
Filial	Altschul A M 14253	Andersen J P 16680	Semillas 17048	Atkinson J D 10619
Akers H A 16843	Alvarado Pier 12600	Andersen S 11026	Argueta J M 11258	Atkinson R L 14007
Akers H A 16844	G 12600	Andersen A W 11780	Arguelles J 17899	Atkinson R M 16465
Akhmetchin S 13096	Alvarez J 17733	Anderson C W 13888	Arias C 13554	Attems C 14858
Akhromenko A I 11024	Alvarez 17734	Anderson E 18004	Ariga H 18030	Attolini J 17351
Akulova T A 12123	Merino M 17734	Anderson E E 16913	Arkema P W B 15271	Atwater J 15252
Alamanni M 15519	Amaral J B 15375	Anderson E J 14699	Arkema P W B 15401	Atze F N 11781
Alarcón 14005	de S 17838	Anderson E J 16661	Arkema P W B 17236	Aubel C E 14505
Gonzales J	Amaral L 11524	Anderson F W 11710	Arle H F 12035	Aubel C E 16682
Albaugh R 14458	Amargós J I 11524	Anderson G C 14459	Armenia Goga- 13304	Aubert P 11600
Albaugh R 16754	Ambrose D 14108	Anderson G C 14496	darstvennaia 13304	Aubert P 11601
Alberia Inspec- 11657	Ambrosini 14697	Anderson I V 12835	Inspektsiā po 13304	Aufhammer G 11260
et Direction de	Dalsasso J 13757	Anderson J O 14060	Plemennomu 13304	Aufhammer W 12781
l'Agriculture	Ameel D J 11555	Anderson O B 16182	Delu 13304	Augusto B H 12093
Albertario P 16017	American Asso- 11555	Anderson R H 14585	Armer A 13451	Augusto B H 17595
Alberto M 17277	ciation of 11555	Anderson R I 14972	Armes M J 17618	Austin S L 16914
	Nurserymen 11555	Anderson W A 13540	Armour and Co 16734	Austin T 12660
		Anderson W C 17617	Armstrong D G 13185	Austin W E 16786
		Anderson W S 16060	Armstrong J 12234	







Item	Item	Item	Item	Item
Bertolini 12282	Blair I D 10622	Bohmont D W 12082	Borgioli E 13106	Bragg D D 14222
Bertolini V de 14706	Blair J K 15534	Bohne H F 11940	Borgström G 18140	Branas J 15845
Bertrand A 11788	Blake A A 12212	Bohne W 17052	Born S 17034	Branch R 13107
Bertuzzi A 15842	Blake J T 13462	Böhner P 12818	Borovoi V A 12614	Brand K 15990
Beskin J M 15402	Blakeley P E 15159	Bohórquez J J 13551	Borther C E 12199	Brandy C A 14136
Besler A 12894	Blakeman J E 16551	Bohstedt G 13097	Borthwick H A 11137	Branion H D 14040
Bessonov K K 14707	Blanc H 14589	Bohstedt G 13105	Borthwick H A 11992	Branion H D 14041
Besuden H C 14420	Blanchard E E 15075	Bohstedt G 13271	Bortolini P 17074	Brannaman 11070
Bethke R M 13109	Blanchard L E 10441	Bohstedt G 13464	Borzi Z 11044	B L
Bethke R M 13467	Blanchard M 15275	Bohstedt G 14379	Bos H 16922	Brannan C F 15648
Bethke R M 13554	Blanchard R A 15110	Bohstedt G 14413	Bösenberg T 12284	Brannan C F 15766
Bethke R M 14012	Blanchenberg 13639	Bohstedt G 14510	Bosman V 16225	Brannan C F 17624
Beutel J A 17563	F J	Bohstedt G 14550	Bosol E S 15403	Brannan C F 18123
Beutel J A 17564	Blanco M G 12464	Boiko K P 14710	Boss J N 13640	Brant A W 14223
Bevard G E 11389	Blankenburg E 16062	Boissséble G de 16344	Bossé L 14712	Branzanti E C 11605
Bevard G E 17597	Blaser E 13548	Boivin T E 11392	Bosso J A 11045	Branzka A 12372
Bevilacqua I 11604	Blaser J A 11940	Bokhout B 15663	Boster D O 16345	Braschi G 15281
Bevilacqua I 15014	Blasge V 13318	Bolin D W 14384	Botanical 10442	Bratton C A 17625
Beyer F 12876	Blattner R J 14107	Bolin L 11789	Society of the British Isles	Bratton R W 13348
Beyer G H 15578	Blau G 13549	Bollati O 11393	Bothmer H J von 11395	Bratzler L J 13291
Bhardwaj D C 10938	Blauw A S 14872	Bollati O 12389	Botkin M P 14522	Brauer I 11047
Bhasin M M 11186	Blaylock L G 13103	Boller A E 18008	Botsford H E 17559	Braun A C 10930
Bhat N R 10439	Blaylock L G 14015	Boller K H 13060	Botting H L 11557	Braun A C 10831
Bhati A 16849	Blaylock L G 14074	Bolley D S 16850	Botting H L 13320	Braun H 10625
Bfályi A M 12823	Bleak A T 11390	Bolln O 16408	Bottoms D N 15279	Braunels L 17705
Biddulph C 14025	Bledsoe O F 15690	Boloy y Vayreda A de 10512	Bottom J C 15280	Bravo C A 13011
Biehler J H 17741	Bleichert H v 13104	Bom L A 17902	Bouchard M A 11790	Bray R W 13457
Bigat P 17179	Blendinger W 13550	Bombay Dept of Agriculture 5822	Boudreau E 13641	Bray R W 14412
Bljelveld H C 17284	Bless G 11959	Bombay Dept of Agriculture 18139	Boudru M 12738	Brayne F L 17479
Bikker A 12040	Bleton C 15205	Bombay Prov-ince Forest Dept 12612	Boudry P 12615	Brazhnikov M 16684
Bikker F 17901	Blin H 11960	Bompard P 12098	Bouhelier R 11962	Brazil Serv de Informação 17358
Billaux P 11050	Blin H 16103	Bonadonna T 13077	Bould C 12285	Agricola Biblioteca
Billings W D 11033	Blinn R C 16871	Bonadonna T 14464	Bouquet A 12099	Breaksell E J 11396
Blinder F L 16061	Bliss C I 13926	Bonadonna T 15917	Bourdon 14713	Breakwell E J 16685
Bingham D 12905	Bliznic A 14109	Bonadonna T 16683	Bourgeois J 11262	Bréart G 16089
Binns W 13198	Blohnberger J 11391	Bonarelli V 15998	Bourget F 17249	Brecek J 11665
Binns W 14025	Blom A 10623	Bond J 17483	Bouriquet G 12100	Brecek J 11666
Binsbergen P B 13823	Blom G 11961	Bonde R 10829	Bouthliet R J 14108	Brechner D L 12410
van	Blondel L 16343	Bondon J 15277	Bouton L 15918	Breirem K 13465
Binstadt 11721	Blondelle R 15764	Bondon J 15278	Bovay E 11046	Bretfield 13272
Binswanger E 17285	Bloods J de 11995	Bone D 14711	Bovey P 18079	Bretfield 13273
Bircher E 17958	Bloss R E 14463	Bonfert A 13319	Bowden S R 15111	Brekke J E 16471
Bird F H 14013	Blosser T H 13625	Bonfils S 17959	Bower A 13824	Brekke J E 18112
Bird H R 13102	Blount W P 14220	Bonham-Carter V 17723	Bower C A 12171	Bremond E 15846
Bird H R 14014	Blount W P 14445	Bonnand O 16724	Bowers C G 11791	Brendler R A 12390
Bird H R 14052	Blow W L 13941	Bonner D 11155	Bowland J P 14465	Brennan H S 15404
Bird H R 14059	Blum G 12097	Bonner J 11037	Bowles E A 18080	Brentzel W E 10723
Bird H R 14253	Blume G 15276	Bonner J 11038	Bowman C F 11266	Bressler G O 14110
Bird J 17286	Blumenstein R 13025	Bonner J 11039	Bowman F T 12236	Bressler G O 14111
Birmingham A R 13317	Blumer S 10721	Bonner J 11040	Bowman G F 12101	Bressler G O 14134
Birth A K 15593	Blumer S 10721	Bonner J 11041	Bowness E R 13913	Bressler G O 14224
Bischoff 13750	Blumke 12283	Bonner J 11042	Bowness E R 13814	Bressler R G 15920
Bishop L R 15843	Blunn C T 13312	Bonner J 11043	Boyd D T 14422	Brethour C L 13466
Bishop W H 13545	Blunn C T 13553	Bonner J 11044	Boyd J S 15535	Breton J A 12703
Bishopp F C 14959	Bobrakov G 14709	Bonner J 11045	Boyd O C 10624	Brett C C 17053
Bitfufskil M 12633	Bock E 15844	Bonner J 11046	Boyer J 11792	Bretz T W 10968
Bitterlich W 12782	Böcklein H 16020	Bonner J 11047	Boyer J 16470	Breuer R 15921
Blitting H W 16407	Böcklein H 16088	Bonner J 17142	Boyer Banse L 17357	Brewbaker H E 11526
Blittner C S 11722	Böcklein H 16104	Bonner J T 10939	Boyes W W 18009	Brian A D 15113
Björn L J 14708	Boda J M 13958	Bonnet J 11043	Boyle F P 12055	Brian M V 15113
Black R 12584	Boeder J 13463	Bonnet L 13920	Boyles S M 17842	Bridger R 15282
Black R 12601	Boeke J E 11677	Bonnet L 14221	Boynton D 10443	Bridger R 17484
Black R 12611	Boeke J E 16469	Bonnet L 10788	Boynton H 13642	Brien R M 10619
Black S L 13546	Boekennoogen H A 11187	Bonnet L 12613	Bozrikov V V 12783	Brierley P 10839
Blackburn S 16224	Boer W den 10722	Bonner H J 17623	Braathe P 12661	Briggs G M 14016
Blackie J E H 15109	Boerger A 10997	Boon 16380	Bracht J 12159	Briggs G M 14017
Blackie J E H 15175	Boerner E S 11940	Boonstra B B S T 17033	Brackett S 14109	Briggs G M 14042
Blackith R E 10883	Bogart R 14360	Boord K R 12725	Brackmann K 15919	Briggs G M 14060
Blackith R E 14831	Bogdanski K 16438	Boord K R 17742	Bradfield R 11150	Briggs G M 14471
Blackley R 11264	Bogdashev N F 13199	Booth C E 13026	Bradley J D 15112	Briggs H M 14377
Blackley S R 13270	Bogen H J 11036	Booth C O 15036	Bradley J D 15521	Briggs H M 17743
Blackmon G H 12351	Bogopol'ski M D 12189	Borchers R L 14002	Bradley T F 16892	Briggs J E 14466
Blackshaw A W 13079	Boguslawski E von 11221	Borchers R L 14062	Brady D E 13291	Briggs M S 13018
Blagburn C H 17558	Böhme K 17481	Borchers R L 14063	Brady D E 16763	Briles C O 13921
Blagoveshchen-ski E N 10440	Böhme K 17482	Borden H L 12726	Brady D E 16764	Briles C O 13922
Blair B O 11034	Bohmert D W 11265	Boren F W 16287	Brady D E 16900	Briles W E 13921
Blair C A 16786		Börger H 14421	Bragato P 11267	Briles W E 13922
Blair H E 13547		Borges J F B 11394		Brin G P 11204
		Börgesen F 10588		



Item	Item	Item	Item	Item
Brinck P 14892	Brown W L Jr 15076	Buré J 16380	Caldwell J S 15016	Canadian Seed 17054
Brinegar M J 14167	Brown W O 13108	Bure J 16555	Cale G H 16666	Growers' Asso- 17054
Brink B E 14714	Browne J 14415	Burema J 18005	Calhoun S L 14594	ciation
Brink B E 14715	Brownell L W 10445	Burger H 12616	Calhoun S L 14949	Canatsey E D 11794
Brink B E 16663	Brozgul' M M 11436	Burger W C 10866	California Al- 16409	Cancellara E 17629
Brink B W 12465	Bruce D 12739	Burges W G 14424	mond Growers	Candioli P 11273
Brink R A 11082	Bruce W N 14611	Burgess A H 11165	Exchange	Candioli P 11668
Briones A Q 11542	Bruckner L 15254	Burgoyne P J 11940	California 14228	Candioli P 11669
Bristol Univer- 17579	Brüggemann H 16183	Burgwald L H 15996	Poultry Im- 17366	Candioli P 17490
sity	Bruggen O van 15594	Burgy M P 12860	provement	Candioli P 17630
Dept of Eco- 14608	Bruggink H A 15347	Burkart B 17020	Commission	Candioli P 17631
nomics	Brugière J M 12150	Burke J H 16347	California Poul- 14229	Candioli P 17844
British Food	Brugman H H 14469	Burkett W H 14395	try Improvement	Candura G S 14596
Manufacturing	Bruhn H D 15376	Burkholder P R 11131	Commission	Candura G S 15017
Industries	Bruin P 12190	Burkov N G 14721	Callimeri M 18010	Canever R B 12191
Research	Brumbaugh J 13499	Burlai E I 14226	Callenbach L C 10725	Cañizo J del 18034
Association	Brumley B B 15692	Burleigh E G 16900	Callenbach E W 14111	Cann D P 15348
British Gulana 18032	Brune F 12287	Burley R H 11269	Callow H J 16228	Cannon G 17055
Director of	Brune W 11964	Burläev A 14722	Calpin G H 17598	Cannon I 13778
Agriculture	Bruner S C 15077	Burman N P 12559	Calvin M 11029	Cannon J W Jr 16410
British West 11527	Bruner W L Jr 15405	Burnett D Jr 14591	Calvo C A 14355	Cano J M 11505
Indies Sugar	Brünink 12391	Burnett E N 15759	Calvo de la 11206	Canonne F 15769
Technologists	Brunk M E 15693	Burns C H 14018	Torre J 12238	Canonville R 17745
Brittan O 14716	Brunk M E 17143	Burns J A 17190	Calzecchi- 11072	Cantino E C 11048
Briukhov G I 11496	Brunner J R 15991	Burnside J E 14477	Onesti A 11072	Cantlon J E 10900
Broadbent B M 15021	Brunnert 14446	Burnside J E 18022	Camargo L V 11072	Capart G P 14231
Broadbent D A 16735	Bruns J 15436	Burr 14360	de	Capoor S P 10841
Broadbent E E 16923	Bruns V F 12392	Burris M J 13553	Cambridge Uni- 17489	Cappelle G v d 15694
Broadbent L 11963	Brunson C C 14112	Burroughs W 13109	versity	Capstick E 15925
Broadbent L 15015	Brunson M H 15114	Burroughs W 13110	Dept of Agri- 14425	Capurro E 17132
Brock H A 15283	Bruun-Möller P 11965	Burroughs W 13467	culture	Carall-
Brockman C F 10444	Bryan A B 17131	Burroughs W 13554	Cambridge Uni- 17565	Wilcocks E E
Brodbeck C 12824	Bryant C B A 15923	Burroughs W 15768	versity	Cardon P V 17960
Broderrick R E 12847	Bryant H E 16346	Burtin J 14578	Dept of Agri- 18141	Cardon P V
Brodovich T M 12691	Bryant L C 18157	Burton J F 15746	culture	Cardoza J 11505
Broeck L van 16552	Bryce D H 16664	Burton L V 15746	Cameron A E 11640	Charles J 10998
Broekhuis E 17485	Bryce D L 16664	Burton R C 16021	Cameron A E 11641	Carleton E A 12245
Broekhuysen A 13889	Brynäseva M A 11723	Busch J 16472	Cameron E J 15747	Carlin T J 12975
van	Bryzgalova V A 15115	Busch L V 10647	Camp T 12103	Carlone R 11670
Broggi E 17496	Buchanan J S 14423	Busch L V 10745	Campanile P F 17628	Carlson C W 14019
Broggi E 17560	Buchanan M L 14479	Bush R 11767	Campbell D J 14723	Carlson M C 11049
Bröker W 14717	Buchholz 14895	Bushinski V P 11222	Campbell G A 14693	Carlson R B 14642
Broker W 14718	Buchholz E 12663	Bushland R C 14592	Campbell H A 15664	Carne W M 16411
Bromell J F 15691	Buchholz E 12664	Bushnell L D 14114	Campbell H J 14595	Carnelro Filho 15926
Bromfield I 12286	Buchholz E 12665	Buss E G 14298	Campbell J A 11966	J J
Bromfield L 12466	Buchholz E 12666	Busse von 15603	Campbell K 17364	Carnes N K 16775
Bromfield L 17359	Buchholz E 12667	Butarin N 14354	Campbell L F 14215	Carolus R L 12393
Bronson T E 15022	Buchinger A 11503	Buth 15595	Campbell R 18008	Carpenter C D 16927
Bronzova G A 12467	Buchwald 13923	Butler E 11504	Campbell R 18008	Carpenter J 16105
Brooke D L 17561	Buchwald J 14590	Butler E 12237	Campi L 11271	Carpenter L E 14470
Brooke J 11667	Buck G S Jr 16226	Butler J I C 16951	Campogiro 13713	Carpenter L E 14471
Brooks O L 11268	Buck W R 17075	Butler K D 17843	Marqués de 14527	Carpenter L E 14527
Brooks O L 11397	Buckingham 13960	Butler O D 13440	Campos A C 14115	Carpenter M M 14099
Brouci A 14893	Buckner G D 14113	Buttazzoni G 13274	Campredon 12931	Carpenter R D 13027
Brough E M 13751	Buckner P J 13321	Butterfield N W 17144	Canada Bur of 16176	Carr D R 12923
Broughton A 13643	Buckstone 15175	Button D J 13468	Statistics	Carrel J 16412
Broughton A 15284	A A W 14719	Butts H A 16935	Canada Bur of 17365	Carrick C W 14096
Brousse H 18160	Büdel A 14720	Butz E L 17363	Statistics	Carrigan R A 11415
Brousse M 15767	Büdel A 14720	Butz E L 17716	Canada Dept of 10661	Carriker 15224
Brousse M 17360	Buell M F 10900	Buvry C 11193	Agriculture	M A Jr
Brown A L 14225	Bugbee R 15437	Buxbaum F 10526	Canada Dept 11724	Carron M A 13326
Brown B A 12568	Bugden W A 13924	Buxbaum F 10942	of Agriculture	Carse G M D 16790
Brown B D 15922	Bugniconr F 14896	Buys A C 11270	Canada Dept of 18033	Carson J D 13971
Brown C 17361	Bugnion F 10941	Buzinov P A 12102	Agriculture	Carson J R 14056
Brown C 17487	Buhle 17744	Buzinov P A 12288	Canada Dept of 14230	Carter G H 16513
Brown C A C 15610	Buhle P 13890	Buzover F A 11188	Agriculture	Carter H W 14356
Brown D A 17362	Bulatti P G 13322	Buzzard C N 16665	Production Serv 17746	Carter M W 15018
Brown H D 16486	Bulanov F 16788	Bychkov N P 13324	Livestock and 17746	Carter R E 17746
Brown J C 15536	Bull L B 14400	Bykov V 16789	Poultry Div 10626	Carter W 14961
Brown J H 14468	Bull S 14500	Byles R S 11793	Canada Dept of 10626	Cartwright G E 14528
Brown L H 17562	Bullard A G 17488	Bywaters J H 14227	Agriculture	Cartwright T C 13614
Brown M 17222	Bulling 17626	Cabot D 13200	Science Serv	Carvallo 15611
Brown P 13731	Bulow A von 13777	Cabrila H 16348	Div of Botany 17181	Hederra S
Brown P E 16924	Bundel' A A 11105	Cacclaguerra J 15634	and Plant	Carver J S 14020
Brown R I 11422	Bundel' A A 16601	Cacclaguerra J 17627	Pathology	Cashmore W H 15285
Brown R T 12662	Bunn H S 16227	Cain J C 10840	Canada Farm 17181	Cashmore W H 15286
Brown S O 14024	Bunn R F I 16554	Cain S A 10901	Loan Board 14116	Cashmore W H 16556
Brown S W 10940	Burcalow F V 11379	Calraachi E A 14593	Canadian Com- 14116	Casida L E 13291
Brown T T 16925	Burchfield H P 10724	Calrns G M 13524	mittee on New- 13325	Casida L E 13573
Brown W A 16926	Burchfield H P 10728	Calder A 16736	castle Disease 13325	Casida L E 14003
Brown W B 13552	Burdaev M I 12748	Calderwood H N 13015	Canadian Guern- 13325	Casida L E 14004
Brown W J 14894			sey Breeders' 13325	Casida L E 14345
			Association	



Item	Item	Item	Item	Item
Casida L E 14411	Chamberlin T R 15019	Chile Dirección 17847	Cockayne E A 15118	Congrès Inter- 15666
Casida L E 14412	Chamberlin 14148	General de	Cockayne E A 15119	national Techn-
Casida L E 14545	V D	Agricultura	Cockayne E A 15120	que et Chimique
Casida L E 14557	Chambers D 14447	Dept de Exten-	Cockayne E A 15121	des Industries
Casler H S 16106	Chaminade R 15348	sión Agrícola	Code W E 12395	Agricoles 8th
Castagnol E M 11050	Champagne G B 14249	Chilean Iodine 11056	Coe R L 14962	Brussels 1950
Castagnol E M 11051	Champeval 11398	Educational	Coffman F A 11259	Connecticut 16023
Castañón 17599	Champeval 13111	Bur	Cohen G 11059	Wholesale
Albertos G	Champion F C 11796	Chilton N W 17962	Cohic F 15207	Milk Producers
Castellano P 17632	Champion J 11053	Chini A 17747	Coker J N 11189	Council
Castillo C M 15923	Champion L R 14117	Chisholm I B 16686	Çölaşan Ü E 18129	Connell K H 17600
Castillo Royo 15438	Champlin M J 12239	Chiu S F 14599	Colby B E 13644	Connell W D 12313
J del	Chan 11797	Chizhevskii M G 12373	Colby H N 15537	Connelly R G 13557
Castle W E 13925	Chanasyk V 11606	Chizhov S T 11968	Colby H N 15564	Connelly R G 15928
Casubolo F 15847	Chanasyk V 11967	Chollet A 15927	Colby R W 13510	Connelly R G 17566
Cat Fanciers' 13714	Chandler D J C 13715	Choquette C 16413	Colby R W 13555	Conner J W 16929
Association	Chandler D J C 13716	Choquette C 17371	Colby R W 14374	Connors I L 10626
Catalina L 12289	Chandler N 11671	Chou J C 17077	Colby R W 14489	Consejo Inter-
Cathcart W H 16396	Chandrase- 10947	Chou T Y 17078	Coldwell B B 12194	americano de
Catron D V 14472	Chandrase- 10947	Chou T Y 17079	Cole A C 15078	Comercio y
Catron D V 14473	Chandrase- 10947	Chou T Y 17080	Cole H H 13958	Producción
Catron D V 14475	Chang P I 15206	Chowdhury H P 11057	Cole J R 10728	Conservative 11559
Catron D V 14486	Chang P K 17078	Christensen E J 15522	Cole J R 10729	Political Centre
Catron D V 14491	Chang P K 17080	Christensen J J 12193	Cole J W 14512	Conservative 16230
Catron D V 14497	Chao K H 15665	Christensen R P 17372	Cole R K 14119	Political Centre
Catron D V 14506	Chao T T 11054	Christian W E 17056	Coleman E L 15361	Constance L 10943
Catron D V 14513	Chaparro 17368	Christie D G 14118	Coleman T H 13925	Constantini M 10450
Catron D V 14529	González A	Christ H 13957	Coletti F 18082	Constantino V 16349
Cattaneo P 16952	Chapman A B 13573	Christy C M 11800	Collard J 11802	-Contrôle- 16185
Caul J 16473	Chapman A B 14557	Chu T K 14021	Colletti A 13645	C L O Meng-
Caulfield J G L 12976	Chapman A B 14561	Chupp C 10613	Colley O A 14726	voeders
Causey N B 14859	Chapman E J 14512	Chuvikov V 17554	Collier A E 15122	Conway F F 13927
Cavalcanti 16381	Chapman P W 17369	Claborn H V 14592	Collier A E 15123	Cook C 15226
M da C P B	Chapron C 12290	Claborn H V 16063	Collier J W 11250	Cook C A 12213
Cavanagh D 16022	Chapron C 15579	Clady L M 12836	Collignon 14232	Cook C W 14380
Cave M S 10943	Charbonneau A 17845	Clague-Taylor 11058	Collin J E 14962	Cook D 11803
Cavellini O 15788	Charitat 13752	Clairmont J H 11801	Collins E C 16414	Cook D 12867
Cavers J R 14240	Charnay P 10627	Clandinin D R 13112	Collins R J 15695	Cook D 15439
Cavers J R 16928	Chase A 18081	Clandinin D R 14075	Collins S 10449	Cook H L 16012
Cavina R 17553	Chatterjee B 12172	Clapham P A 12523	Collins W F 16108	Cook L 12617
Cavoulas M 13971	Chaudhuri R P 15015	Clapp G R 12540	Collins W M 13926	Cooley E 18113
Cawthron 11558	Chaudhuri R P 15020	Clarenbach F A 17724	Collisson C F 16109	Coombe B G 11060
Institute	Chaudonneret J 15225	Clark F E 12524	Collister E H 17216	Coombes G A N 16231
Ceccarelli V 11052	Chaugule B A 11055	Clark H 11399	Colmar H 15480	Coonen N H 15814
Cecka E J 16557	Chavancy A 11050	Clark J M 16229	Colombet D 14357	Cooper A E 14728
Celino M S 12192	Chegwidden M 11798	Clark R J 16558	Colombo E 17635	Cooperativa de 17113
Cella S 17367	Chekhovskii A 11223	Clark R T 13383	Columbo V 15523	Ejidatorios y
Celmer W D 16953	Chekulaeva L 16107	Clarke J D W 13794	Colwell W E 12542	Obrreros del
Centenera V 10842	Chellini R 17370	Clavé H 11725	Colyer C N 14963	Ingenio del
Centraalbur 10602	Chen C P 17078	Claver F K 11274	Comar C L 13481	Mante
voor Schimmel-	Chen C P 17079	Clawson A J 13526	Comar C L 15354	Cope J A 12727
cultures	Chen C P 17080	Clay G F 17373	Combal H 15287	Copeland E B 10576
Central Soya Co 16954	Chen P S 16791	Claybaugh J H 14022	Comben N 13753	Coppens R 11043
Centrale Proef-	Chen T N 14598	Clayton C B 17963	Combs G F 14006	Corash P 16110
stations Vereni-	Cheney L A 17846	Clayton E E 10999	Combs G F 14060	Corbet A 13253
ging	Cheng C F 11536	Clayton P C 17288	Combs G F 14061	Corbet P S 15227
Centro Nacion-	Cheng E W 14517	Clegg T M 13958	Combs L R 17691	Corman B 17193
al de Agrono-	Chepil W S 12160	Clément F P 11275	Combs W B 16561	Cornuet P 10843
mia	Cherednik V A 17076	Clements L B 11117	Comery W 14727	Coronat F 15696
Centro Nacion-	Cherewick W J 10628	Clements L B 12322	Cominotti L 13556	Coronat F 17374
al de Agrono-	Cherewick W J 10726	Clements R W 13019	Commonwealth 11254	Corrêa O 13754
mia	Cherniáev I P 11607	Cledenan E F 16184	Bur of Plant	Corrêa O 14964
Cercos A P 10446	Cheshire A 16792	Cledenning 16559	Breeding and	Corrie F E 13113
Cereal Institute 17961	Chevalier A 10447	K A	Genetics	Corstlaensen 15288
Cernowsky W 17287	Chevalier A 10448	Clack de 15849	Community Serv 17964	Cortiguera J A 16930
Cerrillo Quilez 17633	Chevalier C 11799	Cleve H 16560	Society of New	Coryell M N 17991
F	Chaveaueon J 10727	Cleve-Euler A 10589	York	Cosandey F 10902
Cerrillo 17634	Chiarelli de 15116	Cliffcorn L E 15789	Nutrition Serv	Cosma G 16090
Quilez F	Gahan A	Clifford P A 14677	Complin J O 14370	Cossette M 14347
Cerutti V 12394	Chiarelli de 15117	Close J 16855	Conference on 17965	Cossette M 15349
Chadefaud M 10944	Gahan A	Cloudsley- 14860	Nutrition Prob-	Cossette M 16697
Chadefaud M 10945	Chibunovskii N 15587	Thompson J L 14861	lems in Latin	Cossette M 17371
Chadwick L C 11795	Chichkanov V E 14426	Cloudsley- 14861	America	Cossette M 17567
Chakraverti 10946	Chido G 12910	Clough R 11546	Delegation from	Costa A S 10844
D N	Chieffi A 13328	Clout G A 14725	the United States	Costantino G 11970
Chalmin M 11357	Chigin P 14724	Coarsey R W 13223	Congrès Inter-	Costantino G 14965
Chalumeau P 13327	Chikalov P M 12104	Cobbledick A I 11969	national de	Côté R R 12825
Chalvignac M A 10788	Childers N F 11487	Cochran J H 14600	Sylviculture	Cottier W 10619
Chamberlain 12740	Chile Caja de 17182	Cochran K 13826		Cottingham H 15612
E B	Crédito			Cotton R T 14602
Chamberlain 10619	Hipotecario			Cotton W P 16013
E E				Cottral G E 14200
Chamberlin F S 14597				Couch J R 14007



Item	Item	Item	Item	Item
Couch J R 14023	Cruz A O 16857	Darevskafá E M 10993	Dee W E 17057	Dhennequin R 15468
Couch J R 14024	Cruz B L 18083	Darpoux H 10630	Deere & Co 15127	Dhingra D R 16236
Couch J R 14931	Cruz R C 15851	Darraha L B 16931	Delbert A W 17185	Dhopeshwarkar 18014
Couderc V 11400	Cuatrecasas J 10527	Darrow G M 11746	Deissmann W 11224	G A
Couderc V 12468	Cuba Comislon 17133	Darrow M W 14523	Deitschman G H 12784	Diamond W T 16189
Couillens 11726	Nacional de 17133	Darrow R A 12041	Deitschman G H 12785	Diaz de Villegas 17601
Coulondre E 11728	Propaganda y 17133	Das B M 14899	Dejong D H 13808	J
Coulter S T 15440	Defensa del 17133	Das B M 16793	De Jong J R 14604	Dickenmann P 17380
Country Gentle- 17375	Tabaco Habano 17133	Das D B 16233	De Jong P 10733	Dickenmann P 17381
Country Land- 17848	Cucalón 11805	Datar D S 16977	DeLaCroix C 17849	Dickerson G E 13291
owners' Asso- 17848	Tejeiro E 11805	Dautrich C F 14234	Delaforge O 14448	Dickerson G E 13931
ciation 17848	Cuff P W 14475	Davey A D 13928	Delahaye G 17748	Dickerson G E 14551
Couplin A 14966	Cuff P W 14529	Davey A D 14235	Delarouzeé 16380	Dickerson G E 14566
Coupland R T 10903	Cugnini 13078	Davault L 15125	Delasnerie J 15481	Dickey J B R 16565
Court F M 11804	Culbertson C C 14497	David L 16564	Delaveau P 11181	Dickie R 16024
Court T J C 13329	Culbertson C C 14513	Davidov R 15930	DeLay P D 14121	Dickinson C L 15770
Coutinho L P 14729	Culbertson J O 11358	Davidsohn A 14603	Delisle R 12602	Dickinson D 16465
Coutinho M 11560	Culbertson J O 11507	Davidsohn J 14603	Dell A 15540	Dickinson H R 12472
Cox C E 10646	Cullison A E 14483	Davidson C G 17491	DeLoach D B 15698	Dickinson T A 13028
Cox R F 14385	Cummins G B 10731	Davidson F F 11065	Deloffre G 12163	Dickson A D 16566
Cox R F 16688	Cunha T J 13478	Davidson G F 16234	DeLong W A 12194	Dieckert J W 14024
Cowan P R 11276	Cunha T J 14476	Davidson H R 15539	Delpech R P 15932	Diehl W W 10528
Cowan R L 14394	Cunha T J 14477	Davidson J A 16932	Delrieu 16840	Diener 16237
Crafts A S 11061	Cunha T J 14478	Davidson J A 16933	Delta Council 17377	Diernhofer K 13558
Crafts A S 11062	Cunha T J 14489	Davidson J A 16935	De Lucca C 15128	Dierrhofer K 13559
Craig D 17035	Cunha T J 18022	Davidson J B 13331	DeLucca C 15129	Diesel A M 14123
Craig F R 14120	Cunningham G H 10732	Davidson W L 17035	Delucq 11402	Dieslin H G 17187
Cralley E M 11256	Cunningham 16186	Davidson W M 14555	Delvaux G 17378	Dietrich H 12749
Cram J S 13646	Lu C 14348	Davies C 15393	Delworth C 11810	Dietz G 14732
Cramer H H 14897	Cuzzo R F 14348	Davies C H 14731	Dement'ev N N 12741	Dietz R 16567
Cramer P J S 12105	Cupps P T 13967	Davies M C 14182	Demeritt D B 12977	Dietze C von 17382
Cramer P J S 12106	Curcio M 12291	Davies R G 14863	Demeter K 15992	Diffenback G G 16025
Cramois 17569	Curini 11063	Davies W 14900	Demmler 16064	Digilio A P L 10603
Crampton E W 13291	Galletti A 17353	Davis B A 11807	Dempsey J M 11359	Dikanskafá E M 15790
Crampton E W 14474	Currie L 11062	Davis C C 10904	Dencker C H 15293	Dillon M 17492
Crandall W T 13530	Currier H B 16437	Davis C L 13540	Dengler H W 11811	Dills L E 15132
Crane E E 14730	Curry J A 11806	Davis E B 13717	Denisov P V 11277	Dimock A W 10716
Crane H L 11768	Curson N W 17967	Davis G K 13613	Denlinger M G 13718	Dimond A E 10734
Crane M B 10451	Curtis B W 11673	Davis G K 14058	Denlinger M G 13719	Dingerdissen 16475
Crane M B 11000	Curtis C H 11673	Davis G N 10873	Denmark Lands- 14238	Dinussow W E 14384
Crang A 18011	Curtis J T 10922	Davis H P 13647	udvalget for 14238	Dinussow W E 14479
Cravens W W 14018	Curtis L C 16950	Davis J F 15613	Fjerkræavien 15614	Ditman L P 15133
Cravens W W 14045	Curtis Publish- 16049	Davis J G 15931	Denmark 15614	Divak A 12107
Cravens W W 14046	ing Co 16049	Davis J H 17159	Statistiske 15614	Dixon E W 13332
Cravens W W 14184	Research Dept 16049	Davis L H 10716	Dept 15614	Dixon E W 13333
Cravioto R O 11206	Cutak L 15079	Davis L H 10717	Dennis R B 13930	Dixon G F 14733
Cravioto R O 15676	Czepek E 12906	Davis L H 10718	Denyer R C 13201	Dixon R D 12932
Crawford A 12469	Czerny C 13815	Davis L L 11307	Denzer H 17082	Dixsaut R 13114
Crawford R V 16856	Czyhrinciw N 16494	Davis M B 11808	Deonier C C 14975	Doane D H 15294
Cray R E 17288	Dąb-Kociol J 17376	Davis S H 10631	De Pasquale 16860	Doane D H 17493
Creek C R 16414	Dadant R 10629	Davitashvili M 17289	S R 16860	Doane F P Jr 12978
Cremer H D 18012	Dadykin V P 11064	Davydov A V 12619	DePetrus V R 11940	Dobbins F A 14480
Cressman A W 15021	Daglish C 11190	Dawson C R 16395	DePetrus V R 12471	Dobbins F A 14481
Crété P 10948	Daglish C 11191	Dawson J E 16187	Dermer 11971	Dobert 16190
Creuzot F 16562	Daglish C 11192	Dawson L E 16932	Derogee D 12907	Dobrovorska 12579
Crins W H 11672	Dahl R P 17177	Dawson L E 16933	De Ropp R S 10832	K M
Cripps E G 11165	Dahm P A 13469	Day B E 11062	Derteano U C 1278	Dobrovsky T M 14734
Crisp B 11561	Dahmen E A 16858	Day D I 16188	Desch H E 12728	Dodge W 17212
Crisp F V 16563	M F 16859	Day G H 17903	Descimon A 17250	Doehliert C A 11730
Croce F M 11769	Dahmen 16859	Day P R 12161	Desfarges P 17379	Doehliert C A 12292
Crofts A R 12470	E A M F 16908	Day W C 13055	Deshapande S S 16847	Doehliert C A 15062
Cron L E 15824	Dahmen E A 16908	Day W R 12826	Deshapande S S 16848	Doggett D 15255
Cronan M L 17966	Dalgle J 18084	Deacon E L 12162	De Silvia E R 13020	Dolgoplov N P 12853
Cronkite E P 13755	Dalisen J W 16232	Dean A L 13929	De Silvia E R 13021	Dolotov I A 17290
Cronshey J F E 10730	van 16232	Dean A L 14337	Des Ombres J 15482	Domingues O 13334
Cronshey R H 16082	Dallemagne M J 13758	Dean A L 17014	Detroux L 15080	Dominion Dairy 15933
Crosby J 15289	Dalmasso G 11729	Dean H A 14366	Deutsche Land- 12541	Conference
Crosby J 15350	Dalmasso G 15291	Dean H A 14907	wirtschafts- 12541	Domma 14530
Crosby J 15538	Dalmasso G 15292	Deans A S C 15126	Gesellschaft 12541	Donà dalle Rose 12042
Crosby M W 15697	Dalmasso G 15852	Deans R 13484	Berlin 12541	A
Crossman R 11401	Dalmasso G 15853	Dearstynne R S 14236	Devadas R 18021	Doneen L D 12397
Cross H F 14972	Dalmasso G 15854	Deatherage F E 13484	Devaux M 16738	Donegan L E 15588
Croteau J T 17184	Daly J L 13330	Debelyi A S 11508	Devil P 15993	Donelson L 15699
Crow J 15290	Dame R B 18013	Debor H W 11674	Devlatnin V A 11194	Doney R P 17494
Crowson K A 14998	Dammerman 18143	Debor H W 11675	DeVore P T 17186	Donovan B 12195
Crowther E M 12534	K W 18143	Decken J G 10632	DeWalt F L P 15596	Donovan J M Jr 15604
Cruess W V 16453	Danelli S 15929	Decker J S 11809	DeWerth A F 15585	Dool H van den 16861
Cruess W V 15474	Danilevich S 15406	Decker L 14084	Dewick A J 15130	Doolittle S P 10827
Crummett D C 12396	Dannreuther T 15124	Decker M 14237	De Worms 15131	Doolittle S F 10828
Crumps S 16350	Dansky L M 4043	Dederer M 16737	C G M 15131	Doorme H 13335
	Darby H C 12668	Dedonder R 11193		Dopp W N 16900
				Dorin S 16794



Item	Item	Item	Item	Item
Dormal S 14605	Dupree M 15134	Eggler J 12175	Emmens C W 13079	Evreinova T N 16383
Dorn H 12827	Dupuis C 15023	Egorov I 17726	Emmerich H 12877	Ewing K P 14609
Dorn K 14338	Dupuis G 17752	Egorov V E 12296	Empson J D 15934	Ewing K P 14650
Dörner H 17083	Dupuy A 10453	Ehinger P 16570	Emsweller S I 11813	Ewing K P 14931
Dorofeyev S 13275	Durán Quevedo 18015	Ehlers M H 13340	Enders R K 13902	Eyres H T 12910
Doroshenko I 17291	T 15727	Ehmig O 17292	Endersbee W J 12036	Eyring H 16311
Dorph- 12173	Durand R 11403	Ehrendorfer F 10950	Endres 13562	Eyster W H 11817
Petersen K 12293	Durham S B 11279	Ehrlich C 13204	Ene de Piro M 11360	Eyster W H 12299
Dorsdoff M 11812	Durme J van 13276	Ehrlich C 14124	Ene de Piro M 11814	Eyster W H 12374
Dort H W van 12837	Dürrwaechter 13648	Ehrlich G 16111	Engberg G B 12848	
Dosoudil A 12240	Dwehus 16798	Ehwald E 12622	Engel F 10605	Faas 11408
Dougall B M 13049	Dwyer P 16799	Ehwald E 12704	Engelbertink 15296	Fabbri A 11282
Douglas I B 12036	Dwyer P 13470	Eichinger K 17754	B A A 10635	Faber W 10635
Douglas J R 14967	Dyer A J 14376	Eichler W 14968	Engelbertink 17570	Fabian F W 16479
Dove W E 10949	Dyer A J 14483	Eickner H W 12947	B A A 13472	Fabiani F 13472
Dowding E S 17056	Dyer T G 16191	Eidmann 12669	Engelbrecht 12705	Faccini G C 17384
Doyle B K 16795	Dyhrenfurth K 11001	Eisele C W 13205	Engeler W 13342	Fager E W 11071
Dozier H L 13560	Dykes G M 17905	Eisen H 14306	Engelhard J 15484	Fahmy T 10739
Dracy A E 17749	Dykman Kh 15526	Eisen H 14326	Engelhard J 15485	Fairley E H 11818
Drake E 14025	Dykstra W W 18035	Eisenman H I 16786	Engelhard J 15486	Faivre-Amiot A 10630
Draper C I 14375	Dyllis N V 12786	Eisenmann E 12909	Engelhard J 17755	Falb N H 15701
Draper H H 10735	Dyman V K 14026	Elsenrelch L 13561	Engelmann 13935	Falconer J I 17385
Drees H 13932	Dymsza H A 14550	Elsses J 15994	Engelmann C 14126	Fanal L 16027
Dreesen L J 13999	Dysis A 12620	Elam F L 11404		Fangau K W 14028
Dreesen L J 14735	Dzhemukhadze 11195	Elam F I 17497	Engene S A 12937	Fangau K W 14127
Dreher K 14736	K M 10633	Elbers H 12297	Engene S A 15609	Fangau R 16193
Dreosti G M 17145	Eadie W R 11068	Eleazer J M 11547	Engle R H 11407	Fanning J W 17636
Drew F 17904	Eames A J 12473	Eleazer J M 17498	Engle R H 12298	Farchmin G 16755
Drews E 13115	Eames H F 12053	Eleftheriou V 10737	Enid Cooperative Creamery Association 16026	Farcy H de 17851
Drews E 15568	Earle T T 14481	Elenev A 15378	Enlkeev Kh K 11002	Farina A 15298
Driggers J C 14058	Earley E B 16454	Eley G 17499	Enrile P E 11542	Faris E T 12932
Dronov S F 17084	Earley J M 13336	Elgabaly M M 11069	Enrile P E 15024	Farrel K W 13050
Drost P J 12729	Easley G T 16239	Elgar N E B 15542	Ensminger M E 14485	Farrington R L 17188
Drozov N I 15407	Easily N L 14738	Elgueta M 18144	Ensminger M E 14489	Farris E J 13912
Drummond M C 17991	East L 15377	El-Ibiary H M 13934	Ente Puglia e Lucania 15297	Farstad C W 15159
Dubois M 16569	East L M 14739	El-Ibiary H M 14125	Entwistle C C 16065	Fassuliotis G 10876
Dubrova G B 10736	Easter Brooks 13337	Ellichev A N 13471	Eppinghoven 14740	Fat'fanov A S 12176
Duchaufour P 12294	H L 13338	Ellenborn I A E 10951	G Freiherr Von 17969	Faulhaber F V 16028
Duchêne H 13933	Easter Brooks 13338	Ellett D 16192	Eprright E S 17969	Faure J C A 16863
Duck R W 14427	H L 13338	Elliker P R 13442	Erb R E 13340	Faurot de 16121
Duckworth J 14482	H L 13338	Elliker P R 16112	Fausel W 17085	Lamothe G 17085
Ducoulombier M 14357	H L 13338	Ellington F B 17227	Fausel W 17085	Faustka K 13862
Duddington C L 10452	Eastman R H 16862	Elliot C 12670	Fautrez J 14864	Fautzing J 11819
Duddy J E Jr 15022	Eastoe J E 12174	Elliot F I 13338	Fay L J 16864	Fay R W 14630
Dudley R 17750	Easton A M 14901	Elliot M 14607	Fay R W 14630	Fedderson H C 16092
Duenas S E 12586	Eaton A 17753	Elliot R L 15667	Feder E 17293	Feder E 17293
Dufaure A 17751	Eaton J K 14863	Ellis D E 10738	Feder E 17293	Feder E 17293
Duffee F W 13097	Ebbell 14027	Ellis F E 15408	Feder E 17293	Feder E 17293
Dufrénoy J 11149	Ebbesen E 13116	Ellis H 17850	Feder E 17293	Feder E 17293
Dugelay A 12819	Ebert F A 12908	Ellis H H 17500	Feder E 17293	Feder E 17293
Duggan I W 17701	Eberts H 12621	Ellis H R 17501	Feder E 17293	Feder E 17293
Dukhanin K S 11731	Eberts H 13202	Ellis M G 10700	Feder E 17293	Feder E 17293
Dulac J 11122	Ebes K 12108	Ellis W D 11405	Feder E 17293	Feder E 17293
Dulaney E L 11066	Ebes K 12109	Ellsworth C S 12036	Feder E 17293	Feder E 17293
Dulmet F 16351	Echeverria 12751	Elrod J C 17503	Feder E 17293	Feder E 17293
Du Mond C C 16934	Ballarin I 11280	Elrod J C 17504	Feder E 17293	Feder E 17293
Dumont R 15295	Eckhoff G 13277	Elrod J C 17505	Feder E 17293	Feder E 17293
Dumont R 17383	Eckhoff H 13277	El Salvador 17706	Feder E 17293	Feder E 17293
Dumont R 17725	Ecuador Presidente 1948- (Plaza Lasso) 17602	Dirección General de Estadística 12868	Feder E 17293	Feder E 17293
Dumoulin J 12750	Eddy W H 11025	Elsässer A 12868	Feder E 17293	Feder E 17293
Dunabin T 16238	Edelman J 16382	Elsocht P 12117	Feder E 17293	Feder E 17293
Duncan A A 17495	Edgar A D 16476	Elsukov M 11406	Feder E 17293	Feder E 17293
Duncan C W 13490	Edgar G 13203	Eltringham H C 14239	Feder E 17293	Feder E 17293
Duncan G J 16612	Edgar G 14400	Elvchjem C A 14045	Feder E 17293	Feder E 17293
Duncan J E 15541	Edmonds E V 14554	Elvehjem C A 14046	Feder E 17293	Feder E 17293
Duncum W J 16796	Edmonds H 14562	Elvehjem C A 14184	Feder E 17293	Feder E 17293
Dunker C F 16797	Edmundson W C 11157	Emberger L 10905	Feder E 17293	Feder E 17293
Dunlap W H 11972	Edwards E D 14484	Emberger L 10906	Feder E 17293	Feder E 17293
Dunn D B 11067	Edwards E E 10875	Embleton I 13341	Feder E 17293	Feder E 17293
Dunn H A 10529	Edwards G R 11993	Embree W D Jr 17228	Feder E 17293	Feder E 17293
Dunn M M 17968	Edwards G R 14606	Emden J H van 12110	Feder E 17293	Feder E 17293
Dunn R A 14862	Edwards H M 14476	Emerson B 16477	Feder E 17293	Feder E 17293
Dunn R P Jr 16287	Edwards H M 14477	Emerson C 16800	Feder E 17293	Feder E 17293
Dunnewald T J 12295	Edwards H M 14478	Emerson F H 10634	Feder E 17293	Feder E 17293
Dupaigne P 16438	Edwards H M 18022	Emerson R 10604	Feder E 17293	Feder E 17293
Dupillier C 15483	Edwards J 13339	Emery G A 14608	Feder E 17293	Feder E 17293
Duplat H 14737	Edwards W H 14198	Emilsson B 16478	Feder E 17293	Feder E 17293
Du Plessis C 17496	Efimov A L 14902		Feder E 17293	Feder E 17293
van H			Feder E 17293	Feder E 17293







Item	Item	Item	Item	Item	Item
Galeev Sh 17297	Geissler S 13363	Gillardi R L 11418	Goheen A C 10649	Goubeau J 14636	
Galibert A 11732	Geit P van 10644	Gilbert G E 10457	Goidanich G 10747	Gouck H K 14867	
Gall L S 13206	Geitler L 10955	Gilbertson H W 17762	Gokhale V P 10748	Gouck H K 15110	
Galletti A C 11286	Geldof W 13355	Gilch 14358	Golding G 13357	Gouget C W 14753	
Gallin A 14745	Geldof W 13651	Giles J S 14747	Goldman A S 16915	Goulão C de A 12706	
Gallina L 13565	Geldof W 15352	Giles M J 14016	Goldsborough G H 16459	Gould W A 16485	
Gallup W D 13460	Geller G 16440	Giles M J 14017	Goldschmidt H 16726	Gould W A 16486	
Gallup W D 14377	Geller J H 13055	Gill E D 10458	Goldstein E 16032	Goulden C H 17062	
Gallup W D 14392	Geller L 17971	Gillespie R T 17161	Golfarkin F E 13281	Goulding R L Jr 14975	
Gallup W D 14397	Gellerman A M 11080	Gillett E C 17092	Golitsyn S V 10459	Gouldy T 14430	
Galusha H D Jr 17229	Gemerer P van 15303	Gillmore A E 11083	Golysheva M G 10957	Goulondre E 11727	
Galvin P J 13352	Gemerer P van 15304	Gilpatrick J D 10647	Golz A 17857	Gourlay E S 14910	
Gammon N Jr 12351	Gemerer P van 16482	Gilpatrick J D 10745	Gomes J 15029	Gouzenne P 14614	
Gandhi S R 11609	Gemerer P van 17298	Gils C A M A 11733	Gomes P 17858	Govindarajan S V 11108	
Gangstad E O 11359	Gendron Y 10847	Gimbel H 15580	Gómez Ayau E 17605	Govindarajan S V 12343	
Gapen K M 15758	Gennari G 17299	Ginsburg L 18009	Gómez G P 17645	Govindarajan S V 11198	
Gapen K M 16653	Gennari G 17642	Ginzburg A 13207	Gonçalves L I 15030	Govindarajan V S 15863	
Gapuz R B 17759	Genovese M del 12046	Giorgi G 17644	Gontarski H 14750	Govindarajan V S 13084	
Garattoni E 15004	Genovese M del 15469	Giorgini G 12189	González Alvarez R 13083	Govindaswami S 10958	
Garattoni E 12307	Gentry D 17977	Giorgini G 12112	González Alvarez R 13209	Gowe R S 13942	
Garca Atance J 17604	Gentry D 18114	Girard H 13208	González Cubillo J 14565	Graber L F 11419	
Garcia 17090	Gentry D 18115	Girardeau J H 16418	González F F 18016	Grace N H 16969	
Baylles J L 17091	Gentry H C 10531	Gisliger L 10877	González Galvan J M 14033	Grace N H 16970	
Garcia Bayl-leres J L 12166	Geobotanische Forschungs-Institut Rübel Zürich 10909	Gizardin P 12403	González Silva E I 11197	Grachev A P 12772	
Gardener E H 11563	Gerber A 17856	Gjullin C M 14972	Good N 15685	Grachov A 17301	
Gardner J L 12412	Gerdts L 14429	Glabau C A 16582	Good House-keeping Con-sumer Panel 14751	Graefe 15651	
Gardner L C 16667	Gerebtzoff M A 13758	Glabau C A 16583	Gooding S 14752	Graf T F 16986	
Garman P 14601	Gerhardt E 13940	Gladkov A V 15407	Goodman A 15230	Graffar M 15209	
Garner F H 11416	Gerhold W 16580	Glantschnig J 17393	Goodman A M 15545	Graham 15095	
Garnham P C C 15009	Gericke S 12308	Glantz P J 14134	Goodman D L 12164	M W R de V 16587	
Garrad G H 17506	Gerlach M 16397	Glass B 12216	Goossen 14613	Grain & Feed Dealers National Asso-ciation 12948	
Garren H W 13939	Gerlaugh P 13109	Glass E H 10648	Goossen 15031	Granberg W J 15353	
Garrett S D 10742	Gerlaugh P 13467	Glasscock R S 13478	Göpp K 16584	Granberg W J 14615	
Garrett S D 11287	Gerlaugh P 13476	Glasscock R S 14476	Gorbacheva A P 16585	Grandori R 15045	
Garrigues R 10954	Gerlaugh P 13484	Glasscock R S 14477	Gorban' D V 17093	Granovsky A A 12969	
Garrigus U S 14378	Gerlaugh P 13554	Glasscock R S 18022	Gorbanev V S 17300	Grant P 10844	
Garrigus U S 14428	Gerlings J H H 12753	Glässer K 14533	Gorbatuk D 12384	Grant T J 12223	
Garrigus W P 13082	German H L 14023	Glässer K 14534	Gorbunov M P 15410	Grasimov I P 15231	
Garrigus W P 13474	German H L 14031	Glazebrook J H 15564	Gorburon N I 12151	Grassé P P 15231	
Garrison C S 17060	Germans F H 16243	Glazebrook J H 15305	Gordashevskaja 14535	Grassi C J 15644	
Garrison C S 17061	Gerosa G 13566	Glazener E W 13941	Gordeuk S Jr 14110	Grassmann W 15668	
Gartley K M 14041	Gerritsen C 11676	Glerum J A 11084	Gordeuk S Jr 14111	Graton A 14034	
Gartley K M 14240	Gerry E 12692	Glerum J A 1610	Gordeuk S Jr 14112	Graton A 17574	
Garver W G 15705	Gertler A 12309	Glerum J A 16483	Gordeuk S Jr 14113	Grazl E 13210	
Gasser R 14908	Geskina E IA 12018	Glerum J C 15306	Gordienko M 11290	Grau C R 14187	
Gassett A C 11925	Gessner F 10956	Glistman H G 11826	Gordon E D 15380	Grau F V 12301	
Gassner 13121	Getman F 15491	Glista W A 14032	Gordon E D 15443	Graubner B 12626	
Gassner 13279	Getson S F 13030	Glista W A 14081	Gordon H M 14401	Gravenor W 14754	
Gassner 15936	Geurin H B 14487	Glitz H 12311	Gordon W A 12788	Graves T H 15706	
Gaston H P 15524	Geus J de 13477	Glipersen E 12674	Gore H C 16586	Gray A W 16067	
Gates C M 10643	Geuze M A 16581	Glubrecht H 11085	Gorham J R 13759	Gray N 16113	
Gattani M L 10743	Geyer H 11975	Glukhov M M 12113	Gorham J R 13908	Gray R S 11420	
Gaud 14971	Gèze B 12310	Glünder H G 15937	Gorlout H 17193	Gray W D 11196	
Gaul 11228	Gezhovskaja O A 11599	Glybin G A 17093	Goris A 12086	Greaney F J 11292	
Gaul 11417	Gfrörer E 11976	Gmellin 16094	Gorfunov N 15546	Gt Brit Dept of Scientific and Industrial Research 18147	
Gaully O 14909	Ghosh B N 11081	Gmellin 16484	Gorman J M 16964	Gt Brit Joint Advisory Com-mittee on Agri-cultural Educa-tion to be Provided by Local Education Authorities 15751	
Gäumann E 11078	Gianni E 12980	Gmellin W 13122	Gorokhov I 16756	Gt Brit Ministry of Agriculture and Fisheries 17646	
Gäumann E 11079	Glannini Found-ation of Agricul-tural Economics Library 17160	Gmellin W 16031	Gorozhankin V 15492		
Gaumet R 13353	Gibbs R D 10456	Gobbato C 15862	Gorrie C J R 14135		
Gauss W 16579	Gibson A 16453	Gobillot T 12484	Gorrie R M 12625		
Gaustad M 13354	Gibson G B 12911	Goddard R 14748	Gorshechnikov V 12754		
Gautier-Walter A 17717	Gibson H B 17777	Goddard S A 13356	Gorsler A 15321		
Gay C 17760	Gibson P B 11082	Goded L 15219	Gorsse A de 15634		
Gayford G W 10744	Giesecke F 17643	Godfrey E F 14132	Gorsse A de 17627		
Gayl 12045	Gieser A 14612	Godfrey G F 14112	Gorton G R 11087		
Gaztambide Arrillaga C 13649	Glessen C 18146	Godfrey G F 14133	Gosi L 11291		
Gebauer 14532	Glessen C van der 14389	Godfrey G F 17001	Goslin R M 14974		
Gebhard E W 17761	Gifford W 10645	Godfrey G H 10746	Goss A S 12312		
Geddes H J 13650	Gigante R 10646	Godfrey G H 10878	Goss A S 17394		
Geddes H J 15544	Giggard E 12188	Godwin M 16455	Gossweiler J 10532		
Gehrels J C 15490	Giglioli L 13779	Goertler 13280	Gotelli R J 12544		
Geiger J E 14746	Gilardi C A 11645	Goetsch W 14973	Gottlieb S 13055		
Geiss H 17910		Goetze G 14749	Gottschalk F W 13059		
Geiss W 15861		Goff O E 13936	Gottshall R Y 10460		



Item	Item	Item	Item	Item
Gt Brit Ministry 12657	Gulbert H R 13381	Hall C 16803	Hansel W 13569	Hartog C den 17974
of Town and	Gulford H E 13478	Hall C J 11736	Hansen D 11829	Hartsuch B E 16247
Country Plan-	Gullaumin A 10533	Hall C R 16310	Hansen F 16489	Hartwig H 14402
ning	Gulfaev I A 13720	Hall D W 15141	Hansen H J 13947	Harvey W H 14405
Green G W 15082	Gullander A 17396	Hall G D 15708	Hansen H P 10462	Harvey W R 13363
Green H B 15083	Gulley M 17977	Hall H 10534	Hansen K 15308	Harvill A M 10914
Green K R 12048	Gulley M 18114	Hall H F 17231	Hansen K 15411	Haslam B E 14912
Gréen S 10461	Gulley M 18115	Hall I F 17252	Hansing E D 10650	Hassebrauk K 10651
Greene P H 15307	Gullickson T W 13479	Hall I F 17253	Hanson H 14869	Hassebrauk K 10752
Greenhow S 13780	Gunkel W W 15470	Hall I F 17254	Hanson H C 10911	Hasselt W 12979
Greenwood D A 14025	Gunn C A 14187	Hall M D 14245	Hanson H C 10912	Hassenteufel W 12482
Greenwood G A 17647	Günther 11530	Hall M T 11199	Hanson O D 14521	Hastie C N Jr 11834
Gregor J W 12313	Günther 12755	Hall S A 14881	Hanson R P 14136	Hastings W R 11566
Gregory D 17764	Gunther F A 16871	Hallauer C 14188	Hansson A 14758	Hatakoshi S 12116
Gregory K E 14566	Günther H 13760	Hallemans A 10750	Hansson A 17575	Hatch J W 14248
Gregory P W 13381	Gupta A C 10926	Hallemans A 12049	Hansteln 13128	Hathaway D E 17217
Greig A M W 16441	Gupta A S 11186	Halliday D J 12081	Happey F 16246	Hathaway H E 14249
Greig W S 16442	Gurevich A 15493	Hallday D J 12557	Happle K 16590	Hathaway I L 13522
Grest E G 12036	Gurina Z P 17508	Halpaap 15547	Harberd H 14759	Hathorn R E 17303
Greve 12560	Gusakovskii Z 16802	Halpaap 17768	Hård F 10513	Hauge S M 14096
Greve 13123	Gusev K 17302	Halpern B 13755	Hard H G Jr 13003	Hauke G 17304
Greve L R 12545	Gusler G 15707	Halpern L K 14617	Harder H J 14328	Hauser F 15993
Greve Silva G 13358	Gusler G 16776	Halpin J G 14018	Hardin C M 15709	Hausmann O P 13482
Gridgeman N T 15669	Gusler G 16942	Halpin J G 14045	Hardin L J 11117	Hausmann G 12152
Griebel C 16384	Gusler G 16943	Halpin J G 14046	Hardin L J 12322	Haviland W E 17512
Grieco R 17648	Gustafson P 17860	Halpin J G 14184	Harding P L 11088	Hawkes A D 10535
Griesbeck A 11977	Gustafsson T 14755	Haltenberger O K 16114	Hardwick D F 15143	Hawley I M 14903
Griffault P 12970	Guthrie N 17972	Haltmeyer O 16589	Hardy E A 11294	Haworth-Booth M 11567
Griffen R N 12376	Gutknecht H 13125	Halverson H 16012	Hardy J M 11830	Haworth-Booth M 11835
Griffin E D 16194	Gutman G O 16668	Hamann H 17399	Hardy W H 16951	Hayes B J 14250
Griffin E D 16195	Guyer P 13470	Hambleton J 12627	Hargreaves J E 13283	Hayes D L 14251
Griffin H P 14241	Guyotjeannin C 15791	Hamet R 11200	Haring 11295	Hayes F 13213
Griffith J M 13488	Guzman G J 11206	Hamilton C C 14618	Harkink J 15309	Hayes J B 15548
Griffiths J T 14868	Guzzini D 16354	Hamilton D W 15084	Harkness B 11831	Hayes W J Jr 18038
Griffiths J T Jr 15025	Gwin J M 16945	Hamilton G R 15142	Harler C R 12115	Hays W J 14483
Grimley O B 17859	Gwin J M 16946	Hamilton L H 14431	Harmann H P 11646	Hayward C L 10915
Grin' A 11293	Gwin J M 16947	Hamilton L H 17509	Harmel L 15940	Hayward J W 14099
Grlinovero C 12404	Gygli K 14756	Hamilton M C 11828	Harms G R 13761	Hayward W 11836
Grlinovero C 12405	Gynn R N 17579	Hamilton T K 15938	Harms H F Jr 13761	Hazaleus M H 13430
Grinsted R 11421	Haagensen E A 17095	Hamilton T K 16033	Harmssen W L 16116	Hazel L N 13291
Grisard J C 17507	Haan A de 15994	Hamilton T S 14480	Haro M 14246	Hazel L N 14367
Grison P 14976	Haan H de 11003	Hamilton T S 14481	Harp H F 11832	Head M 14482
Griswold D M 15752	Haar A E 11363	Hamilton W E 17162	Harper G W 15144	Headley H G 13109
Griswold L 14056	Haarer A E 16245	Hamlin H M 17769	Harper G W 15145	Heather P J 14760
Griyanov K P 14616	Haas R 16588	Hamm P J 12811	Harper J A 13949	Hebert T T 10673
Groeneveld C 11734	Haasjes K H S 12407	Hammerler W 13212	Harrington B J 17510	Hebert T T 11322
Grokhovskii M I 11229	Habel R E 13567	Hammond A E 16488	Harrington J B 11296	Hebert T T 11323
Gromova L 11406	Habersang 13568	Hammond J 13361	Harrington L 16117	Hecht R W 17305
Grooten R 17395	Habersang 13864	Hammond J 14339	Harrington L 17511	Heck L 13721
Groschke A C 14035	Habib P C 17397	Hammonds L L 14036	Harrington R 16117	Heckl R 15549
Groschke A C 14193	Haby R J 17230	Hampel G 16615	Harris S D 17474	Heckman J H 15729
Groschke A C 14203	Hackenschmied W 17398	Hanau A 15773	Harris F J T 16465	Hedges A V 15146
Gross A J 13124	Hacker W 11827	Hand D B 15652	Harris J 11833	Hedwig O 16591
Grossman J 16385	Hackleman J C 17050	Handel 10910	Harris J R 14025	Heebink B G 12957
Grote J F 13282	Haddon E 17094	Mazzetti 12589	Harris K W 15697	Heertjes P M 16858
Grote R 13652	Hafenrichter 11422	Mazzetti 14911	Harris L E 14380	Heertjes P M 16859
Groven I 16487	A L 10749	Handschin E 16948	Harris R O 17770	Hefer S V 12050
Groves D E 14567	Raffiz A 12978	Haneberg B 13480	Harris W B 11089	Heffner M C 16953
Groves P K 13359	Hafner R 10366	Hanebut 16949	Harrison B A 16952	Hefny B E 18131
Groves W F 17765	Hageman R H 12114	Hanger C F 14757	Harrison C M 10463	Heger E 13950
Grow O 13943	Hagen C 12375	Hanlan R M 15939	Harrison C M 11423	Heick F 11425
Grozov F S 12481	Hagen C 13211	Hanke M M 14523	Harrison R W 12408	Heidebrecht A A 14488
Gruber H 15772	Hagen K S 14978	Hanke O A 16950	Harrison S R 17025	Heidebrecht W 16034
Gruget E A 16244	Hager E H 13796	Hankins O G 14449	Harrison T J 11297	Heikinheimo O 12756
Grummer R H 14510	Hagerup A 13831	Hankins O G 16725	Hart F H 15355	Heilbronner R 11197
Grummer R H 14545	Haggett G 15140	Hankins O G 16757	Hart L 14137	Helm 16954
Grummer R H 14550	Hägglund E 12981	Hankins O G 16797	Hart L 14247	Helm 17195
Grummer R H 14557	Hagman M 12789	Hankinson D J 16008	Hart M L 11424	Helmann M 11091
Grüneberg J 10848	Hahn H 11124	Hank B 13362	Hart S H 17256	Helmann B 15995
Grunin K A 14977	Håkansson R 13360	Hannah Dairy Research Institute 16115	Hart V B 17257	Heiney R B 17306
Grutter F H 11066	Halbrook E R 14242	Hansard S L 13481	Hartard Ebert M 16535	Heinig P 17861
Gruzdov S F 11735	Halbrook E R 14243	Hansard S L 13488	Hartman D 16490	Heinrich K 12895
Guarnieri J C 17766	Halbrook W 14244	Hansard S L 15354	Hartmann J 17973	Heinrichs D H 14426
Gudkova T V 12206	Halden W 18017	Hansard S L 15357	Hartmann H T 11030	Heintze K 16491
Guérande C 13944	Hale F 13126	Hansbrough J R 10751	Hartog C den 15792	Heinzelman D C 16248
Guérande C 15444	Hale M 13946			Heiser C B Jr 12051
Guerra A 17767	Hale W H 14378			Heiss R 15793
Gueydon L 11978	Hale W H 14379			Heitz T W 13951
Guhl A M 13945				
Gulauchain P 11565				
Gulauchain P 12406				



Item	Item	Item	Item	Item
Helgason E 15925	Heslop Harrison J W 15151	Hobbs C S 13489	Homeyer P G 14513	Howell J T 10536
Helgason S B 11298	Heslop Harrison J W 15152	Hobbs C S 13615	Homeyer P G 14529	Howell J T 10537
Heller P 13337	Hess 14139	Hobbs C S 14512	Honda S 11038	Howell J T 10538
Heller P 13338	Hess E 12707	Hobbs C S 15354	Honda S 11039	Howell L D 16254
Heller V G 14089	Hess R W 10959	Hobbs C S 15357	Honda S 11040	Howland A F 15249
Helman M B 13364	Hess R W 12839	Hoblyn T N 11611	Honda S 17142	Howland J E 18132
Helmeke G 17475	Hess R W 13063	Hobson K 17400	Honer C J 15997	Howse A C 15358
Helversen F D 12982	Hess R W 13064	Hobson P N 11201	Honess R F 14415	Hoys D 13782
Hemer M 10879	Hessler L E 16249	Hockensmith R D 12486	Hönicke K D 12880	Hoyt A S 11570
Hench M 12628	Hetrick J 16166	Hockley J 14381	Honig F W 11569	Hoyt H H 14141
Hendershott R A 13214	Hetterich G 12941	Hönl 16177	Hönsch W 15794	Hoyt R S 11841
Henderson D 16692	Hetzer H O 14449	Hood A E M 13517	Hu C Y 14598	
Henderson G 17307	Hetzer W A 10960	Hood A J G 15943	Hubbard E S 16419	
Henderson J A 13570	Heuser G F 14037	Hood M P 14140	Hubbard W W 11680	
Henderson L 15798	Heuser G F 14038	Hood S L 13481	Hubbard W W 12412	
Hendricks R H 11164	Heuser G F 14101	Hoogendoorn J 16955	Hubbell D S 12412	
Hendrickson A H 12409	Hewitt A C T 15941	Hoogland E J A 15310	Huber H 15866	
Hendrix C H 16872	Hewitt E J 11092	Hoogland E J A 15311	Hucker G J 16386	
Hendrix W R 13571	Hewlett P S 14913	Hoogland E J A 15496	Hucker G J 16443	
Hénin S 12483	Heyelmann F 12314	Hoogland E J A 17308	Huckett H C 14981	
Hénin S 12484	Heyer P 17651	Hoogland E J A 17772	Huddleston H F 16536	
Hénin S 12485	Heyn A N J 16250	Hooker W J 10755	Huffman C F 13490	
Henisch G 17576	Heywang B W 14039	Hopf L 16592	Huggins H C 15155	
Hennepe te 15605	Heywang B W 14253	Hopkins D P 12546	Huggins H C 15156	
Henner G 12217	Heywood V H 10464	Hopkins G E 16252	Huggins H C 15157	
Hennessy W A 17708	Hibbs J W 13485	Hopkins G E 15232	Hughes C G 10655	
Henning P D 11427	Hibbs J W 13486	Hopkins G E 15233	Hughes C G 10756	
Henning W L 13865	Hibbs J W 13572	Hopkins G E 15234	Hughes D 16493	
Henning W L 13649	Hickman C W 14383	Hopkins H H 10920	Hughes D 17773	
Henning W L 14356	Hickman C W 14405	Hopkins J S 10468	Hughes E 17912	
Henricl 17649	Hicks C F 16197	Hopkins J S 11230	Hughes E J 16884	
Henriksen P K 17911	Hicks J S 14254	Hopper E G 12487	Hughes G C 14395	
Henriksson A 13365	Hiemeleers J 15864	Hopper W C 17404	Hughes J S 14164	
Henriques E 13129	Hieronimus A M 11837	Höppner E 11981	Hughes J S 14385	
Henry A H 14113	Hieronimus T A 16874	Höppner R 15711	Hughes J S 14505	
Henry A W 10652	Higgins F H 15381	Hord H H V 10802	Huguet L 12675	
Henstock H 15147	Higginson A H 13722	Horlacher L J 14432	Huhtanen C N 13206	
Hepburn J M 13952	Higgs C 13284	Horn E F 12119	Huldekoper W 16696	
Hepting G H 10653	Hilbrands H L 16492	Horn H 10514	Hulbert L 11111	
Herb T 14329	Hilbrig 13723	Horn H 10590	Hulbert L S 17258	
Herbsthofer F 15445	Hilditch T P 16856	Horn W 11678	Hulin P 13763	
Herbulot C 15148	Hilger R 13953	Horn W 11679	Hülse O 12056	
Herd-book 13366	Hilger R 14763	Hornby C A 11982	Hultine A 13372	
Normand 13366	Hill A T 13954	Horne F R 11231	Hume H H 11842	
Hereford G V B 14619	Hill A T 14255	Horne F R 16594	Hume R M 12983	
Hergueta Na-vas L 14761	Hill D C 14040	Horner F 14044	Hume W G 11612	
Heringa B 16196	Hill D C 14041	Hornich H 17405	Hummel B L 17408	
Heringa J N 11677	Hill D H 15942	Horr W H 10520	Humphrey H J 15795	
Herken H 14620	Hill E B 17232	Horring J 17406	Hungerford D 11300	
Herman H A 13483	Hill E G 14016	Horst J A ter 12411	Hunkeler M 14764	
Hermann 17650	Hill E G 14017	Horst M 17407	Hunkin J W 11571	
Hermansen J 11026	Hill E G 14042	Horton C R 11429	Hünnecke F W 16040	
Hermes H 13762	Hill F W 14043	Hosch L 14621	Hunt A A 11843	
Hernández C 16693	Hill G 14979	Hosch L 15471	Hunt G 16956	
Hernández Roa A 13367	Hill G R 11164	Hothum G 16804	Hunt H M 17835	
Hernández Roa A 13368	Hill W L 12529	Hottes A C 11839	Hunt R 11550	
Herold E 14762	Hiller G A 14980	Hou D 10607	Hunt S B 16255	
Herout V 16873	Hillier J C 10465	Houghton K S 11840	Hunter A W S 10656	
Herreld E O 15996	Hillier J C 14455	Haupt R R 12790	Hunter H 11301	
Herrero F J 13264	Hillier R 13487	Houseman E 15712	Hunter J H 11771	
Herrick C A 14138	Hills F J 11532	Housh C C 13956	Hunter W L 14108	
Herrick C A 14413	Hilton R J 10466	Houston C E 12455	Huntoon R Jr 16957	
Herrick L W 14252	Hilton R J 12376	Hout A van 14340	Huntsman C M 15550	
Herring J L 15033	Himbeec C van 15256	Hout A van 14341	Hurd L M 14258	
Herrington B L 15996	Himmelfarb D 16251	Hout A van 14622	Hurford A W 10757	
Herrmann O W 15710	Himmelfreund-pointner K 10753	Hout F van 17709	Hurst F 11430	
Hershberger T 13484	Hinds R 14256	Houtman G 15235	Hurst W M 15443	
Hershley G 13215	Hine D J 15056	Houtz R C 16253	Hurt B C 11751	
Hertner W 12896	Hiner R L 16725	Hovey H S 15713	Husemann 11431	
Hervey C 16118	Hiner R L 16757	Howald O 15635	Husemann 12413	
Hervey D F 12052	Hirsch D E 13369	Howald O 16037	Husemann 12414	
Herz H 16035	Hisserich 15494	Howard Lady 14623	Hush H 16198	
Herzer F H 15997	Hisserich 15495	Howard A 16805	Hussain M Z 15037	
Herzog J 11568	Hitchcock A E 12053	Howard F H 11940	Hussey R F 15033	
Hes J E 11531	Hjelm L 16694	Howard R A 10916	Husson J 11302	
Heslop I R P 15149	Hoak C M 11838	Howatt J L 10654	Huston T M 14142	
Heslop I R P 15150	Hobbs C S 13481	Howe D K 16038	Hutchings B L 14066	
		Homeyer P G 14491	Hutchings C D 17513	
			Hutchings R S 13957	
			Hutchings R S 16958	
			Hutchinson J 14492	



	Item		Item		Item		Item		Item
Hutchinson K T	15616	Indonesia Dept	17975	Irvine S	12489	Jankowski B	16961	Johnson G	16497
Hüter F	18039	of Health		Irwin M R	14259	Jansen A P	15671	Johnson H C	15911
Hutt F B	13958	Nutrition Re-		Irwin W F	13764	Jansen W L	12685	Johnson L	12417
Hutt F B	14119	search Institute		Isenberg I H	16259	Janssen	12791	Johnson L H	14768
Hutt F B	14143	Ingelstrom E	10657	Ishii T	14625	Janssen L	11987	Johnson M	18000
Huttar J C	16959	Ingls FR	12415	Isidoro R	15998	Janssen R W	11304	Johnson R E	13574
Huttar J C	16960	Ingls H A	11232	Isley F E	13491	Jany W	16420	Johnson R E	15551
Hütten H	13866	Ingram G R	14045	Isley F E	17727	Japan Synthetic	17914	Johnson R F	14405
Hutton J	13959	Ingram G R	14046	Istituto Na-	17346	Textile Asso-		Johnson R T	11533
Huurman D	17654	iniguez Garcia J	11984	zionale di Eco-		ciation		Johnston C O	10650
Huxley P	14579	Inman W	17309	nomia Agraria		Jardine R H	16096	Johnston H L	17776
Huysmans G L	14624	Insko W M Jr	14113	Italy Istituto	15826	Jardine W	15944	Johnston J C	11647
Hveding A	12603	Institut Pchelo-	14765	Centrale di		Jarrousse H	16121	Johnston J E	13376
Hyde G E	15175	vodstva		Statistica		Jarvis C M	14916	Johnston J R	11250
Hyde R S	12746	Institute of Ru-	17721	Italy Istituto	17219	Jasper A W	13961	Johnston W W	14057
Hyland F	13065	ral Life at		Centrale di		Jasper D E	13867	Johnstone-	11432
Hyler J E	12897	Home and		Statistica		Jatkar S K K	14629	Wallace D B	
Hyler J E	12898	Overseas		Ité G	11985	Jaumes L	11305	Johnstone-	13133
Hyler J E	12950	Instituto de	17351	udinova A	16120	Jeanson P	11737	Wallace D B	
Hyler J E	12951	Investigacio-		Unovidov A P	11094	Jeanson P	15867	Jolain R	12676
Hylkema B	12488	nes Económicas		Urmaliat A P	13286	Jeberlin H	15312	Jolivet P	14917
Hymas T A	14167	Instituto Nacio-	16494	Ivanishin A I	11986	Jebson J L	14403	Jolly A L	18148
Hyre F M	17233	nal de Nutrición		Ivanov A	13894	Jeckell F L	11306	Joly R L	17148
		Instituto Rio	16595	Ivanov A	16260	Jeffers F H	13962	Jonard P	11319
		Grandense do		Ivanov A A	15413	Jeffers F H	13963	Jones A	15673
		Arroz		Ivanov L A	11095	Jeffords D B	10470	Jones A	15674
Akhimovich	15217	Inter-American	15798	Ivanov M	16789	Jeffrey F P	13964	Jones C W	17777
L A		Conference on		Ivanova N	16164	Jehle R A	10759	Jones D	15716
Akovlev B V	14902	Agriculture		Ivanova N	16164	Jemison G M	10653	Jones D G	13966
Akovlev B V	14914	Inter-American	12120	Ivanovich A	15257	Jenkins A E	10759	Jones D G	14019
Akovlev M S	10961	Institute of		Ivanovitch V	15158	Jenkins D W	10918	Jones D G	14145
Akovlev M S	18089	Agricultural		Ives M	18018	Jenkins D W	15005	Jones D W	11428
Akovlev V	16806	Sciences		Ivins J D	12057	Jenkins D W	15006	Jones E E	14121
Akovleva P	14915	Inter-American	18161	Ivy E E	14626	Jenkins J H	12933	Jones F G W	10881
Akubtsiner	11303	Statistical		Ivy E E	14627	Jenks J	17412	Jones F R	10760
M M		Congress		Ivy E E	14866	Jenni E	13656	Jones F R	15462
Akushkin I V	18090	Inter-American	12120	Ivy E E	15051	Jennings J C	10460	Jones G N	10515
Amnikov A N	12373	Technical Con-		Iwema S	13131	Jennings O	11988	Jones J H	13440
Arkov S P	12224	ference on		Iwema S	13492	Jennissen L	15945	Jones J H	13504
Arshlaysev K	14811	Cacao		Iyengar	10814	Jensen E	12630	Jones J W	11307
Ashchuk A P	10980	International	16041	M R S		Jensen E	16356	Jones L S	11117
Ibach D B	17173	Association of		Izcua H	15753	Jensen E	16495	Jones R	11990
Ibragimov G R	10758	Ice Cream		Izdemir H	17198	Jensen H L	12198	Jones R E	14233
Ibsen E J	13655	Manufacturers				Jensen J	13132	Jones T	14260
Idaho Crop Im-	17063	International	16119			Jensen J A	14630	Jones W W	17778
provement		Association of				Jensen K E	13268	Jong J J de	17915
Association		Ice Cream				Jensen L S	16962	Jong S H de	17702
Idol E S	15714	Manufacturers				Jensen S P	17310	Jong W H de	16498
Iglesias A	17733	International	17353			Jensen-Salsbery	14144	Jonge P de	12377
Iglinsky W Jr	14627	Bank for Con-				Laboratories		Jonge P de	12421
Ignar S	17514	struction and				Professional		Jonson D	15035
Ihm	16777	Development				Serv Div		Jordan R M	14382
I'in M M	10917	International	17410					Jordan W T	12561
Iloğlu A S	17197	Labor Off				Jepma J	13374	Joris	11433
Ilsink L	11844	International	16258			Jeppson L R	14870	Josland S W	13217
Imhoff van	15715	Silk Association				Jerabek C I	11845	Jougan E	11573
Imperial Chem-	15670	Iranzo J R	16355			Jerome F N	13965	Jougan E	11613
ical Industries		Iroshnikov M M	13893			Jessen	12708	Jougan E	11614
Analytical		Irrigation Dis-	12416			Jessen L S	11989	Jougan E	11615
Methods Com-		tricts Asso-				Jesser M J	14870	Jougan E	11683
mittee		ciation of				Jeter F H	13657	Jougan E	11684
Inch R	11983	California				Jewell B M	17311	Jougan E	11846
India Dept of	12629	Water Eco-				Jimenez L	11598	Jougan E	11847
Agriculture		nomics Com-				Jiménez M A	16496	Jougan E	11848
India Dept of	16256	mittee				Jobson A	17775	Jougan E	12562
Agriculture		Irrigation Dis-	12417			Joelson J	17655	Joussellin R	17096
Directorate		tricts Asso-				Johannet M	14767	Jovkovic B	12828
of Economics		ciation of				Johansen G	10609	Juárez T	12122
and Statistics		California				Johanson F D	14601	Judge L A	16597
India Directorate	17037	Water Eco-				Johansson E	11681	Junge C	15946
of Economics		nomics Com-				Johansson E	11682	Jungfleisch M	17710
and Statistics		mittee				Johansson K E	14580	Junghänel E	14536
India Informa-	12242	Irrigation Dis-	12418			Johns D F	12420	Jungherr E L	13337
tion Serv		tricts Asso-				Johnson A R	13375	Jungherr E L	13338
Washington D C		ciation of				Johnson B	13725	Jungherr E L	14146
Indian Central	16257	California				Johnson B C	14375	Juve A E	17035
Jute Committee		Water Eco-				Johnson B C	14502		
Indian National	17409	nomics Com-				Johnson C G	15034		
Congress		mittee				Johnson C M	15672		
Agrarian Re-		Irrigation Dis-	12420			Johnson E J	17863	Kaas J	17312
forms Com-		tricts Asso-				Johnson E L	14047	Kaberry P	17719
mittee		ciation of				Johnson E L	14048	Kadar G	17313
		California				Johnson E L	14049	Kadishes A TA	12757
		Water Eco-				Johnson F D	13541	Kadletz M	13218
		nomics Com-							
		mittee							
		Irschick E	12952						
		Irvin H M	13524						



	Item		Item		Item		Item		Item
Kaemmerer K	13306	Keegan H L	14872	Kiel Universitat	17163	Klos	14774	Kolomiejs M E	17099
Kaesar	14769	Keen E A	12742	Institut für		Klosterman E W	14384	Komarov I	11441
Kafka H	13377	Keener P D	11100	Weltwirtschaft		Klosterman E W	14479	Kommers W J	13069
Kahlenberg O J	16963	Keepers W F	13378	Klener	13382	Klotz L J	10765	Kondrat'ev P S	12832
Kahlenberg O J	16964	Keestra F	16068	Klenitz E	12774	Klotz L J	10766	Konev V N	11235
Kalenburg A L	10962	Keestra J	13496	Klenzle R A	10660	Klougart A	11851	Kong W T	16502
Kaiser E W	18040	Kehar N D	13508	Kiger H C	17135	Klougart A	15315	König	15160
Kajanne P	13051	Zeuren	13379	Kilpatrick D T	11993	Klussendorf R C	13577	Koning H	11442
Kalenich E S	11434	Keim J F	17779	Kimball M H	11775	Knaff E	17782	Koningsberger	17026
Kalinin V I	13833	Keim J F	17836	Kimmey J W	12812	Knapp B Jr	13383	C	
Kalinkevich A F	11098	Keith T B	14383	Kimmins D E	15236	Knapp B Jr	13629	Koningsberger	11534
Kalinovskii I	17314	Keith T B	14405	Kincaid C W	13291	Knapp J G	17866	V J	
Kalkman P	11616	Keller E C	14568	Kinder Q B	13931	Knapp J G	17867	Konovalov I N	11103
Kallbrunner H	12315	Keller E L	12985	King A S	12423	Knewitz	17606	Konrad E	17038
Kallbrunner H	12491	Keller H	15606	King C G	17976	Knight S G	16000	Konstandt L	16978
Kallbrunner H	13134	Keller I W	12709	King G H	11551	Knoblauch G	13221	Kools J F	12857
Kallbrunner H	17413	Keller J C	16875	King J W	10591	Knocker J H L	15608	Koomen	13387
Kalmar R	11991	Kelley E G	14079	King M G	13135	Knodd C B	13138	Koonz C H	16971
Kalmykov S S	11772	Kellogg C E	14351	King N J	17097	Knodd C B	13498	Koopman C	11309
Kaloyereas S A	16965	Kellum R	15552	Kinghorn J W	16968	Knodd C B	13499	Koperina L V	16447
Kalshoven	14631	Kelly E	13783	Kingman H E	13575	Knodd C B	13536	Kopp L J	16698
L G E		Kelly N D	16042	Kingston D H	13323	Knodd C B	13578	Körber F	16600
Kalverkamp U D	15414	Kelting R W	10924	Kingston R S T	13066	Knoll	17917	Korbob R P	11852
Kalyankar G D	14206	Kemmer E	11685	Kirby R S	11903	Knoop F	11102	Korchagina V	11738
Kamal M	11057	Kemp J D	16758	Kirby R S	11904	Knopff	13384	Korchanov A T	12775
Kamanov N G	13494	Kemperman H T	11574	Kirby R S	11905	Knopff	13385	Kordakova Z M	14776
Kammerer E L	11849	Kempf N W	15868	Kirby R S	11906	Knopff	13579	Kordé K B	10472
Kampe	17064	Kempfer H	17834	Kirby R S	11907	Knowles F W	16503	Korell W	16097
Kamshilov N A	14770	Kempster H L	13931	Kircher W H	12547	Knowles J H	14263	Korhammer	12899
Kansas Crop	11233	Kempster H L	14080	Kircher W H	17780	Knowles P F	11512	Korobko A	17316
Improvement		Kenda W	17092	Kireev A T	12632	Knowles T E	14264	Korobov A	15500
Association		Kendall M G	18163	Kirillov I T	12633	Knowles T E	14265	Korol'kov V D	15586
Kantartia G P	12123	Kendall R G	12422	Kirfukhin A M	15498	Knowles T E	14266	Koropov V M	13224
Kanykin I	16807	Kendrick J B Jr	10669	Kirk L E	13136	Knowles T E	16969	Körprich M	13388
Kanz N	15446	Kendrick M S	17257	Kirk W G	13497	Knowlton C H	10516	Korten	10662
Kapica L	15015	Kennard D C	14148	Kirkpatrick	14149	Knox C W	14150	Koshel' M M	13836
Kaplan A M	16966	Kennedy C	11437	C M		Knox W D	13323	Kosikowsky F V	16122
Kaplan R	11099	Kennedy C	13380	Kirkpatrick	12053	Knüppel W	17918	Kosin I L	14151
Kapner S H	12243	Kennedy J S	15036	H Jr		Knust H G	15473	Kostler J	12758
Kappler E	16357	Kennedy J W	14555	Kirkpatrick R E	12856	Knust H G	15499	Kostoglodov V F	14777
Karapetian S K	14261	Kennedy S J	16808	Kirste	11308	Kob H	16261	Kostyrin A P	17099
Karapetian V K	11004	Kennedy W K	13168	Kirwald E	12830	Kobe	11234	Kotze W A G	16670
Karasev I I	11436	Kennerknecht H	17414	Kiselev A N	12492	Koberger F	13967	Koval'chuk P	15948
Karavaeva S	14519	Kenny R	15553	Kish A F	14078	Koblet R	11439	Kovalenko A	15154
Karbo A	14564	Kent G C	10755	Kish A F	16978	Koblitsky L	15114	Kovalin D T	12792
Karelin T I	12829	Kentle A	15969	Kishen J	13036	Koch	16669	Kovda V A	12153
Karisch	13219	Kephart J C	16199	Kislovskii D A	13086	Koch C	14918	Kozeff A	14084
Karlsen G G	13834	Kepner R A	15631	Kisser J	11101	Koch F	11440	Kozeff A	14085
Karman de	16852	Kerharo J	12099	Kitaev G M	13576	Koch L W	10661	Kozeff A	14086
Sutton G		Kermann K	15607	Kizuka S	16811	Koch L W	10833	Kozhanchikov I V	15161
Karmishin A	15636	Kerr M H	14493	Kjellén C	14772	Koe L J	17104	Kozhanchikov	15211
Karpov P L	14406	Kerstens J	16499	Kjellgren C	14773	Goegeler K	10517	I V	
Karraker P E	12199	Kersting	10659	Klang N	16627	Koellreuter J	10963	Kozifskii G N	13150
Kaschula V R	14147	Kersting	10763	Klärning J	12535	Koenen K	16136	Kozko D I	14433
Kassanis B	10849	Kersting	11992	Klauditz W	12634	Koenig N	16970	Kozlova V I	10767
Kastelle J	13495	Kertesz Z I	15796	Klauditz W	12953	Koenig P	17136	Kozlovskii A I	11443
Kästner A	14871	Kertesz Z I	16387	Kleczkowska J	10764	Koert J L	16501	Kozlovskii B L	13658
Kastner J	15313	Kesterson J W	16876	Kleefeld C	11202	Koetsveld E E	16200	Kozlovskii V	14494
Katarki H V	10658	Keuken W	16500	Klein E	13980	van		Kraemer O	12954
Kato K	16697	Keune	15947	Klein E	16598	Kofoed A D	11513	Krafft H	13659
Katwijk W van	10761	Kevan D K M	16043	Klein G T	14262	Kogan B	16812	Kralin P	11310
Katwijk W van	10762	Khadilkar T R	15210	Klein G T	17315	Köhler	14775	Kramer A	10646
Katznelson H	10707	Khan H A	11364	Klein J	15289	Kohlmeier W	13966	Kramer O	12981
Kauffman F L	16971	Khan M H	16872	Klein R M	11185	Kohlmeier W	14019	Kramer P J	11104
Kauffman H H	16967	Khanna K L	15472	Klein-Hessling	13137	Kohlmeier W	14145	Kramke E H	14050
Kaufmann H P	15999	Kharchenko V A	15037	P		Kohls R L	15774	Kramke E H	14051
Kauter A	11435	Khatin M G	13195	Klemme A	12424	Kohlschütter	16262	Krantz F A Jr	16486
Kawe A	12316	Khitun I U M	13241	Klestrop-	11511	H W		Krapf	12759
Kaylor J F	12631	Khmelev B I	17100	Hansen F		Koke O	12833	Krasnikov A S	13895
Kayser E	15314	Khodas K	11005	Klijnhout C C	17916	Kokhan M A	17098	Krasnopeev M Z	14778
Kazakevich L I	12058	Khoroshilov	16909	Klimmek H	16599	Kokoschinski A	15675	Krasnovskii A A	11204
Kazakov B N	14537	A D	15382	Klimovskii A	11219	Kokovkin I I	13139	Kratky O	16263
Kazakova M V	14537	Khrumushin L	17320	Z M		Kokurichev P I	13222	Krause W	10964
Kazanskii V A	11436	Khrustodulo D	16910	Klimshetyn	13220	Kolachov P	15797	Kravtsov A J	12225
Kazantsev N D	17656	Khrubostov S N	15497	Kline A B	12317	Kolesnik N N	13386	Kreiser R F	16358
Kazintsev D	17515	Kiaer H F	10471	Kline A B	17865	Kolesnikov P A	11203	Kreknin V V	12858
Kearl C D	17577	Kidd R A	17728	Klingman H E	11850	Kolfasin E A	15617	Krepela W	15637
Kearney T H	10541	Kidwell J F	13381	Klinger D	17781	Koller R	13223	Kress H	11006
Kearsley N J	14771	Kleke H E	16249	Klobukova-	11438	Koller R	15754	Kress-Richter	11126
Keast J C	14404			Alisova E N		Kollmann F	12924	I	
				Kloft W	15085	Kollmeyer A	17657	Kretovich V L	11105
						Kolmogorov A A	13935	Kretovich V L	16601



Item	Item	Item	Item	Item	Item
Kreuz R A 12425	Kummer H 11996	Lamb A F A 12694	Lear J 13500	Leung T C 11536	
Krickl M 11994	Kummerow F A 14021	Lamb E C 17868	Lear J 17220	Levan L 10583	
Krider J L 14480	Kummerow F A 16972	Lamb G N 13067	Leasure E E 13226	Levashov V A 15259	
Krider J L 14481	Kundert J 10721	Lamb J Jr 12245	Lebeau 17201	Leveck H H 13502	
Krider J L 14500	Kundert J 11035	Lamm R 11997	Lebedev D V 11112	Leveck H H 14386	
Krider J L 14502	Kundzich M M 15645	Lamm R 11997	Lebedev D V 11113	Levine P P 14156	
Krider J L 14516	Kunert P 16125	Lammerts W E 11109	Lebedev V 18092	Levit A 17323	
Krieg W 12925	Kunkle L E 13476	Lammerts W E 11858	Lebedeva L I 14920	Lewallen L L 14985	
Krieger H 12882	Kunkle L E 13484	Lammerts W E 11859	Leberton F 11998	Lewis A H 13517	
Krieglsteiner E 13225	Künning H 11107	LaMothe G E 12870	Leclerc M 13837	Lewis C F 11367	
Kriegshoff P 16602	Künster L 13726	Lamp I 13031	Leclerc M 15554	Lewis F C 15597	
Krienke W S 16166	Kuntz O L 16603	Lampe F 14636	Leclercq S 10474	Lewis J C 17234	
Krings E 13916	Kunz H 16359	Lampman C E 14069	Lecocq A 17805	Lewis W A 17419	
Krishna P G 12226	Kunz H 16460	Lamprecht 13662	Leddett P 17102	Lewton F L 10545	
Krishnamurti B 14632	Kunze E E 16604	Landblom N 11077	Leddett P 17103	Lhuillier J 11366	
Krishnamurti B 14919	Kurbatov D 15589	Landolt R 16504	Lederer E 16727	Li H L 10546	
Krishnaswamy N 10965	Kurschen C 12318	Landstrom K S 12731	Le Duc T 17518	Li H W 11536	
Kristensen H R 10850	Kurth E F 13013	Lane L 17869	Lee A E 11114	Lifshchenko I F 11008	
Kristiansen T W 15258	Kurth E F 13052	Lang J 16841	Lee A R 14267	Libby G E 12986	
Kroese W T 16264	Kurtz L D 17065	Lang K 13253	Lee C C 14203	Lieberman S 16813	
Krogh von 15415	Kushashvili A L 14153	Lang K 13580	Lee C E 14268	Libowitzky A 11862	
Krokhaev G S 18091	Kushner Kh F 13087	Lang L 16421	Lee F A 16388	Lichtenberger 16045	
Kromdijk G 11853	Kushner Kh F 13088	Lange P 10663	Lee F A 16505	Lichtenberger 16975	
Kromdijk G 11854	Kutenitsyn V 15316	Lange P 11686	Lee H 16792	Lidl O 12850	
Kromdijk G 11855	Kutish L J 13141	Lange P 11860	Lee J van der 16527	Liebenberg 11445	
Kromdijk G 11856	Kutovoi I D 15463	Lange W 16126	Lee R 17978	L C C 12984	
Kröner W 15794	Kutter H 15098	Lange W 16127	Lee Y T 17104	Liebig 14526	
Krueger W F 13931	Kutuzov F 17320	Langmead P I 15448	Leech N B 11861	Lienert E 13581	
Kruel W 15162	Kutuzov I 14780	Langmuir A D 15003	Leeds Univer- 17585	Lienhart R 13728	
Krüger 11515	Kutyn E 17200	Langner W 12793	Leeds Univer- 17594	Lienhart R 14785	
Krüger G 13896	Kuznets G M 15775	Lanier P 13142	Leeds 17675	Lies J 13871	
Krüger H 17317	Kuznetsov V G 11739	Lanier P 13143	University 11535	Lillie R J 14052	
Krugliakov M L 15396	Kuznetsov V S 11311	Lanier P 13663	Leenheer L de 11535	Lillieroth C G 16478	
Kruisheer C I 16010	Kvarafskhelia T K 12123	Lanier P 16201	Lees A B 13501	Lima A da C 15039	
Kruk H 16123	Kvasnikov E I 18149	Lanoue L 15618	Lefebvre L 16296	Lima P O 11537	
Krukovsky V N 16001	Kyl M T 17692	Lanskaf L A 11110	Lefevre A 17786	Limasset P 10843	
Kruse E F 17199	Kyle W H 14367	Lapaev P S 17321	Lefortain M 15871	Limasset P 10847	
Kruse F H 12378	La Baume W 13661	Lapin N S 14226	Legendre A F 18006	Liming O N 10799	
Kruse H 16124	Labion 14781	Lapko A 16606	Legendre G 13145	Linstrom G A 12677	
Kruyk P A 11995	Laborde-Bols P 13968	Lardnelli G 15317	Leghis L M 11619	Lincoln Long- 14359	
Krzehilin A S 11106	Labunskii I M 12165	Large J R 10770	Lehman D J 12494	wool Sheep 13390	
Krylov A M 13868	Lacerda D T de 12635	Larin I V 11444	Lehmann C A 12883	Breeders' As- 13390	
Krylov A M 13869	Lacey J 14434	La Rosa C 17919	Lehner A 12563	Lincoln Red 13390	
Krylov M 15343	Lacey J J 14495	Larsen E L 10542	Lehucher J 16700	Society 10475	
Krylov N V 15525	Lacey J J 15237	Larsen G H 11617	Leibundgut H 12636	Lind E M 10475	
Krymskii Na- 14633	Lachenschmidt B 16759	Larson J D 12154	Leigh W E 16422	Lindau F 12320	
uchno-Issledo- 14633	Lackner C E 15949	Larson L S 13144	Leighton R 13665	Linde P E 16389	
vatskii Insti- 14633	Lackner H 13727	Larson L S 16202	Leira A R 12124	Lindeberg G 11205	
tut Zashchity 14633	Lacy E 17977	Larson N M 17896	Leitch F J 16266	Lindemann E 16506	
Rastenii 14633	Lacy E 18114	Larsson E L 13089	Lelandais E 13208	Lindemann E 16608	
Krymskoe 12776	Lacy E 18115	Larsson E L 16069	Lemaire M E 16361	Lindemann F 12749	
Oblastnoe Up- 12776	Lacy M D 16699	Larthe R 12548	Lemasson P 17322	Linden L 14635	
ravlenie Sel'- 12776	Lacy R C 10769	LaRue W C 17517	Lengemann F W 13527	van der 13010	
skogo Khozai- 12776	Ladewig J E 12493	Larzelere H E 16973	Lenoir J 10577	Linden P J 13010	
stva 12776	Ladygin I A 18133	Lasley E L 14384	Lenox D 14784	van der 10882	
Krzemiński B 17415	Ladyzhenskaya K I 10582	Lasley E L 14479	Leonard A S 15631	Lindhardt K 10882	
Kublena W 12200	Laeken A van 11857	Lasley J F 14496	Leong K C 14090	Lindley H 16267	
Kubisch H 17318	La Face F 16360	Latham A 14782	Leonhardt H 13970	Lindner A F 13227	
Kuchly J 10768	Lafkin W E 12059	Latham A 14783	Leont'ev V L 11115	Lindner A F 16128	
Klückelhaus 13660	Lafont R 17149	Latham E 14634	Leopold A S 10919	Lindquist A W 15002	
Kudrjavtseva T P 14152	Laforest G 17784	Latteur J P 14154	Lepid J 17920	Lindsay R C 12794	
Kugel' R V 15501	Laforest J E 13798	Lattin G de 11007	Lepkovsky S 14108	Lindstedt G 13053	
Kühl R 14982	Laforet H 17416	Lauer B E 12993	Lepkovsky S 14187	Lindstrom D E 17787	
Kuhn H 10592	Laforet H 17516	Laumont P 11312	Lepley K C 14497	Lines O 11863	
Kuhn R P 11385	Lagae A 17259	Laurens C 15776	Lerner I M 13969	Lineweaver H 16979	
Kühner 14779	Lagasse F S 12293	Laurent C K 16974	Lerner I M 14155	Ling L 10610	
Kujath K 16044	Lagaussie F 16605	Laurent R 16203	Le Roux M S 16389	Ling L 10731	
Kukolev N I 12379	Lagerlöf N 13389	Laurent R 16607	LeRoy G V 13755	Lingle H C 16165	
Kulakov E V 12832	Lagerroth S 12319	Lavallee P 10664	Leroy J F 10544	Link G K K 11185	
Kulbach W 13797	Lagos U J A 17417	Lavezzi A 11618	Leroy R 16562	Link P 17519	
Kul'chitskaya E F 17100	Laing R T 12244	Lavrov P 17785	Lery J 15582	Linton F B 16390	
Kuleznev S A 17319	Lakke R H 16265	Lawrence D B 11111	Leslie W R 11620	Lion A 16268	
Kulicke 13140	Lakshmikanta S R 11108	Lawrence W J C 11575	Lesser M A 10771	Lipatov N 16164	
Kulinich A 15447	Lallemand A 15038	Laycock G 17720	Lesser M A 12926	Lipka W 12940	
Kulkarni S B 14629	Lally M M 16964	Lazecy F 17418	Lesser Preus R 12125	Lipka W 12985	
Kulkarny H L 10658	Lamas P J A 11365	Leach T 12426	Lester J 12495	Lipka W 12955	
Kumlien W F 17783		Leader Evapo- 17101	Létard E 13666	Lippert R D 10920	
		rator Co 17101	Letty M S 17578	Lippitt M A 11864	
		Léandri J 10473	Lefunovskaya G 16164	Lippitt M L 15717	
		Léandri J 10543	Leukel R W 10772		



Item	Item	Item	Item	Item
Lippmann K 15502	Lucas E H 14200	Maccarese 11576	McKenna P J 11869	Maier E A 11539
Lips H J 16869	Lucas H L 13173	McCartney M G 13972	Mackenzie A M 16778	Maier K 14792
Lips H J 16979	Lucas P 17805	McClean A P D 10851	McKenzie F F 13442	Maier W 13148
Lischeck H 17921	Lucas S W 15620	McClellan W D 10666	MacKenzie J G 17522	Maier-Bode 16424
Lishchenko A M 13667	Lucas W C 14181	McClintock E 11866	McKeown K C 14921	Maler-Bode 17922
Lisin S S 12795	Lucas Moran B 14407	McClinton K M 11867	McKerrow G W 16002	Majeed A A 17693
Liska J A 13068	Lucianetti A 17260	McClymonds 12498	McKibben G E 12166	Makarov V V 16274
Little P 14182	Lucie-Smith 11648	A E	Mackie M 17422	Makhalova A S 13149
Liu S L 16980	M N	McCollam M E 12549	McKinney J 12927	Makhatadze L B 12760
Lifbovskii G 15374	Luckham C F 16977	McColloch R J 16387	McKinney R S 16883	Makinson K R 16275
Liveron C W 14269	Ludecke H 11538	McCollum E V 17961	McKinney W H 11397	Maksimenko N V 11450
Liverovskii 10476	Lüdi W 10477	McConachie J D 14041	Mackintosh D L 16787	Malabard J 17425
IU A	Lüdi W 10478	McConachie J D 14240	McKnight J S 12914	Malakhov I P 14433
Livet L 14270	Luecke R W 14463	McCord H G 11868	Mackowiak C 13208	Malan E F 11650
Ljones B 11740	Luecke R W 14498	McCormack J F 12679	McKusick H A 12859	Malaus N 14408
Llaveria B M 12564	Lueken H 16609	McCormack R H 16850	McLaren C G 12860	Malaya Dept of 17040
Llobet E 17607	Luhman C A 14108	McCready R M 15681	McLaren J B 14512	Statistics
Lloyd 13970	Lührs 14983	McCullough W B 16882	MacLean J D 12928	Malaya Dept of 17923
Lloyd J I 17788	Luigi 14984	McCully W G 12060	MacLean N A 10776	Statistics
Lloyd M D 14051	Lukas H 16701	McCurdy E V 11369	MacLean N A 10777	Malcolm F B 12886
Lloyd R L 16129	Luk'fanchikov 12858	MacDaniels L H 11773	McLellan R I 11940	Maletic J J 12036
Lo Y F 17077	C N	MacDonald C 17555	McLeroy G B 14360	Maletic J T 12061
Lo Blanco G 17703	Luk'fanchuk I N 13146	MacDonald F P 13229	McMahon G 17980	Malfatto P 10718
Loch R 15260	Luk'fanov A D 11741	McDonald R 15163	McMahon J E 16762	Malisani O 12429
Locsin C L 17106	Luna Ercilla 16272	McDonnell 16936	McMaster D 14277	Mallo R G 14640
Loden H W 11367	C A	L R	McMillen J M 13054	Maltenfort M S 16981
Lodi F 15619	Luna Ercilla 16273	MacDonnell L R 16979	McMillen W N 14463	Mal'tsev A 11223
Lods E A 11313	C A	MacDougall D 16929	McMillen W N 14498	Mal'tsev M P 12680
Loeffel W J 13522	Lund S 10593	McDowell A 17989	McMurtrie E C 13974	Malushko V 16147
Loew G 16881	Lundberg A H 12987	Macedo J N 14157	McNair J 12499	Mamedov A 15720
Loewel 11621	Lundberg G 12813	Macedo J N 14274	McNally E H 14223	Man T J de 13503
Loftus C 12912	Lundblad O 14581	Macedo J N 17791	McNally E H 16980	Manaresi A 11690
Logan N H 11865	Lunder R 14788	McElroy L W 14465	McNeel T E 14638	Mandel 12796
Lognova N V 14406	Lundin Y 11622	McEwan G 14499	McNeely J G 16741	Mandya M 17324
Lolkema H 16144	Lunding F J 15653	McFadden A J 17871	McNeely J G 17423	Manerberger A 16815
Lombard P 11368	Lundquist N S 13512	McFarland W A 13059	McNeil C 14342	Manfredi M 16131
Long G 10518	Lundy H W 11415	MacFarlane I 16014	McNew G L 10667	Mangenot G 10905
Long J 13467	Lupori N 17202	McGaha M E 16423	McNew G L 10724	Mangenot G 10906
Long L 17979	Lur'e M Z 13241	McGeorge W T 12542	McNew G L 10778	Mango A 17204
Longfield C 15238	Lurie H I 10966	McGibbon W H 14003	MacNicol C 16362	Mani M S 15241
Longley M O 10976	Lush J L 13363	McGibbon W H 14004	McNutt S H 13626	Manil P 10788
Loo C C 16130	Lusk M 18116	Macgill E I 15040	MacPherson 13975	Manin K V 15416
Loomis H F 10547	Lussier O 12678	MacGillivray 12428	B W	Mann D 16982
Loosli J K 14467	Luther H 14636	J H	Macpherson 14538	Manresa 12323
Loosli J K 18001	Luther H G 14468	McGillivray K D 11689	O M	Xamena J
López 16269	Lutley E F 14271	McGinnis J 14020	McRostie G P 11316	Mansfeld K 12834
Fresquet R	Lutri I 10967	McGinnis J 14053	MacVicar R W 13520	Mansfeld K 18041
López Saá E 12496	Luttrell C B 17203	McGinnis J 14054	MacVicar R W 13620	Manson P W 12430
López y López 15555	Lutts V P 14789	McGinnis J 14090	MacVicar R W 14488	Mantler F 16393
C	Lutz J 14790	McGinnis R J 17520	McVickar M H 11448	Manton I 11119
Lopinski H 17039	Luz Filho F 17870	McGlamery J B 14140	McVickar M H 11449	Maracay Vene- 17793
Lopyrin A I 14406	Lyerly P J 13440	McGovern J N 12988	MacWhirter G T 14791	zuela Escuela
Lorenz F W 13971	Lyerly P J 13504	McGowan G P 13147	Macy H 17424	Práctica de
Lorenz F W 16976	Lyle J A 10773	McGregor R L 10520	Macy I G 17991	Agricultura y
Lorenz O A 11999	Lyman C M 13555	McGregor R L 10612	Maddex R L 15535	Centro de De-
Lorenz R W 13032	Lynch M R 13559	McGregor R L 10921	Maddock H M 14473	mostración del
Los Angeles 17420	Lynd J Q 12156	MacGregor W D 15239	Maddock H M 14475	Estado Aragua
County Cali-	Lynen C R 14637	McGregor W G 11315	Maddock H M 14486	
ifornia Agri-	Lynn W C 17789	McGregor W G 11370	Maddock H M 14491	Maratkanov A S 11461
cultural	Lyon A V 10774	McGrew C D 13391	Maddock H M 14506	Marbury S L 11870
Commissioner	Lyon A V 10775	McGuffin W C 15164	Madsen H F 14639	March R B 14985
Lott T B 10665	Lyon A V 12427	McGuffin W C 15240	Madsen L L 14353	Marchiori A 11318
Loubry C 17993	Lyons I 15718	Macherauch O 11582	Madsen L L 14380	Marescalchi C 15972
Loui D 13228	Lyons T 14924	Macherauch O 11742	Madsen M A 14353	Marescalchi C 16398
Loui D 13668	Lyons T 14924	Machts K 13230	Magalhães O de 14973	Marfori R T 12324
Lourd J 10558	Lysenko T D 11116	MacIlraith J J 13973	Magee E G 13669	Margolf P H 14008
Louvain P 11687	Lysenko T D 11236	MacIntire W H 11117	Magliano A 16204	Margulies R 17426
Louvain P 11688	Lysenko T D 12497	MacIntire W H 12322	Magne F C 16884	Mariani M 17658
Louveau J 14786	Lyster J L 14272	MacIntire W H 13488	Magness J R 11623	Mariani M 17659
Lovell H B 14787	MacAllister R V 15664	McIntosh R P 10922	Magnusson A H 10611	Mariat F 11118
Low A S 16270	MacAllister W T 16978	McIntosh T P 12446	Magrabi M H 14158	Marié R 10521
Low A S 16271	McArdle A A 14273	McIver W L 14275	Magri R 16814	Marinković B 12639
Lower E S 16733	McArdle R E 12637	McIver W L 14276	Magrou J 11118	Marinucci M 10969
Lowery J C 11446	McAuliffe W S 16760	McKain W C Jr 17539	Maguire B 10548	Marion J F 15626
Lowrie A W 14106	McAuliffe W S 16761	MacKay A I 17792	Mahdihassan S 15041	Marion P 14539
Lowry R K 13729	McBarron E J 13582	MacKay D H 16702	Maher T 12590	Mariota-Trias 11009
Lowry R K 13784	Macbride J F 10519	Mackay E 12638	Mahmud K A 10779	F
Lozet J 12155	McCalla A G 11314	Mackay F F 17421	Mahn 15950	Mariselli J A 17794
Lubatti O F 10983	McCallan S E A 10667	McKay W H 16703	Mahoney C H 12218	Markov A A 13255
Lubenefs P A 11447	McCallister K J 15719	McKay B 17608	Mahoney M 15951	Markovic L 12681
Lubouski N P 12000	McCannon H 17790	McKee C 17521	Mahoney P 15598	Markovskii A G 12178
Lucas E H 10460			Maidanik A P 11317	Markushin A P 13392
				Marlow V 13287
				Marnette J 16507



	Item		Item		Item		Item		Item
Marsboom R	13670	Mattos G W	16986	Melling C T	15622	Middleton G K	11322	Minnesota Dept	17533
Marschall F	11451	T de		Mel'nik M K	11540	Middleton G K	11323	of Education	
Marsden D H	11120	Mattuschka T	11624	Mel'nikov V I	14794	Middleton J T	10669	Vocational Div	
Marsden S J	13976	Maume L	11122	Mel'nikova T	12641	Middleton J T	10910	Minnesota Dept	17534
Marsh A F	13909	Maurer K J	11691	Meloche G	18118	Middour J C	12247	of Education	
Marsh H	16276	Mauritius Col-	17795	Melton A A	13504	Miege E	12329	Vocational Div	
Marshall G	16277	lege of Agri-		Memnonov V V	13150	Miege E	13152	Minnesota Uni-	17531
Marshall H B	13002	culture		Menagarishvili	12123	Miege E	15654	versity	
Marshall R M	12201	Mauritius	17137	A D		Miege E	16205	Div of Agricul-	
Marshve G N	14570	Tobacco		Menagarishvili	12565	Miege E	16510	tural Econom-	
Martin A C	12036	Board		A D		Miege J	10550	ics	
Martin C	10943	Mauron P	12326	Mendes J E T	12126	Miege J	10905	Minnesota Uni-	17532
Martin D	16363	Mavlanov I M	11207	Mene P S	13017	Miege J	10906	versity	
Martin D M	12591	Maw W A	14057	Menendez C A	10497	Miege J	10906	Div of Agricul-	
Martin G C	10984	Mawhinney A S	13731	Meneough H	14450	Miellet R	14796	tural Econom-	
Martin H	16278	Mawhinney K H	13731	Menezes O B de	11011	Miellet R	14797	ics	
Martin J P	10668	Mayer D T	14551	Menezes O B de	11320	Migliorini U	17924	Minnesota Uni-	17533
Martin R	11371	Mayer F	13977	Mengeblor	16132	Mignotte F	15322	versity	
Martin R S	12246	Mayer R	11319	Menger A	16610	Mignotte F	15418	Div of Agricul-	
Martin W E	12345	Mayes H M	16458	Menger A	16987	Mikhailova G M	12861	tural Econom-	
Martin de Fru-	14349	Mayeux H S	14986	Mennicke U	13561	Mikhailova L V	11012	ics	
tos J		Maymone B	15449	Menninger E A	11874	Mikhailovskii	14923	Minnesota Uni-	17534
Martin Lomera	13583	Mayne F C	13730	Menninger E C	11875	V S		versity	
S		Mayne J E	15318	Mentzer J	17107	Millbrath D G	10781	Div of Agricul-	
Martinenghi	16885	Mayo N	15952	Menzies D J	15760	Millbrath J A	10852	tural Economics	
G B		Mayor E	18094	Merchant I A	13232	Millhau J	15878	Minut J	15956
Martines V	15621	Mayr J	16046	Mercier E	13090	Millisavljevitch	15879	Mir R M	15881
Martinez	17609	Mays G	17524	Mercier E	13393	D		Mireault G	17872
Borquo A		Mazza S	15042	Mercier E	13671	Millissavlje-	10782	Mirkin E	16913
Martinez	12431	Mazzei Patrone	10780	Merck and Co	13233	vitch D		Mironchik V	16134
Bula F		I		Mercker A E	16364	Milfutin G	16133	Mironov A	16728
Martinez	10549	Mazzocchi-	17660	Mercker A E	16365	Milk Industry	15955	Mirri F	13234
Crovetto R		Alemanni N		Mercuri S	14387	Foundation		Misefuk K A	17207
Martinez	17427	Meadows G B	14476	Meredity W R	17261	Millen T W	14102	Mishustin E N	13195
Surroca A		Meadows G B	14477	Merkel H	13394	Miller A J	11743	Mishustina V K	12202
Martino V di	12432	Meadows G B	14478	Merkel S	13151	Miller D G	12956	Mispirota C A	11744
Martinoni F	13765	Meadows G B	14478	Merkt	16048	Miller H	13731	Missimer J K	12999
Martins A J	12380	Mealing H G	11872	Merk	18095	Miller J C	14374	Mission to	17433
Martinuzzi E A	16965	Mealing Mrs	11872	Merk	13395	Miller J P	14278	Colombia	
Martland J J	12001	H G		Merrill V	15798	Miller L P	11209	Mitchell H H	14378
Martsenifina	11010	Meals C F	16425	Merrill L P	17430	Miller L P	11210	Mitchell H K	11197
K K		Medici G	15319	Merritt W L	13802	Miller M S	12862	Mitchell M P	16842
Martyn E J	14922	Medici G	17429	Merritts W L	13802	Miller ON	17991	Mitchell P H	18045
Martynenko A	14055	Medici G	17661	Mertens S	15209	Miller P E	17431	Mitchell S B	11878
Marucci P E	15062	Medina A R de	15875	Mertens W	15321	Miller P R	10667	Mithel B B	16236
Marulanda	13584	Medler J T	15019	Mertens W	15417	Miller P R	10670	Mitin M B	18046
Calcedo L		Mednis A	12327	Mertens W	16445	Miller P R	10670	Mitra G C	10971
Maryland Uni-	13055	Meeks T O	12433	Mertz E T	14096	Miller P R	10783	Mitrofanov A S	11453
versity		Meenen H J	16047	Mertz E T	14511	Miller R C	13649	Mix A J	10612
Dept of Bac-		Meer K v d	12157	Merzlov A I	17325	Miller R C	16704	Mixer J P	13376
teriology		Meer K v d	12328	Meschini C	13396	Miller R E	14643	Mochalov V Z	11625
Marzell H	10479	Meeuse A D J	15165	Messerli W	13586	Miller R F	17046	Modrow H	16366
Mashkov A E	12640	Meheshwari P	10968	Mestre Artigas	15876	Miller S	17991	Moeller A N	13621
Mason J E	17694	Mehlisch K	17066	A		Miller V L	14009	Moels A	11013
Mass D	17523	Mehner A	13422	Metcalc R L	14642	Miller V L	14011	Moewus F	11123
Masse A M	14641	Mehner A	13910	Methvin L	13003	Miller W J	13153	Moffitt J G	14500
Massieu H G	11206	Mehrfol N R	14058	Metianu T	13587	Milligan J L	14059	Mohalyi G	12566
Massieu H G	15676	Mehrle -	13585	Metivier H V M	13397	Milligan J L	14060	Mohamed	17108
Massy C	12797	Meibom B G	17508	Metreveli P A	12761	Milligan J L	14061	Moustapha M	
Mastras M	15873	Meier J	14793	Metson N K	17796	Milling C J	11877		
Matagrin A	12325	Meierjohann R	15953	Metzger L	11710	Milliron H E	15086	Mohaupt A A	12957
Matagrin A	16508	Meijers P G	11452	Meulen J G J	11321	Millot P	11239	Möhler K	17109
Matchett J R	15798	Meilland F	11578	van der		Mills D R	15504	Mohler M A	13398
Mathieu T F	11577	Meilland F	11940	Meunier P L	16326	Mills E G	16917	Mohorčič H	15882
Mathy M C	15974	Meimberg P	11237	Mexico Direc-	14795	Mills W C	16517	Mohr W	16135
Matrone G	12219	Meindl G	15320	cion General		Milne C G	15585	Mohr W	16136
Matrone G	13153	Meindl G	15638	de Enseñanza		Milov S G	12890	Mohrenweiser	15397
Matrone G	14462	Meindl G	15755	Agricola		Milovitch V	15980	D	
Matrone G	14552	Meiners	13785	Mexico Secre-	18042	Milton R H	11552	Molises J	12798
Matškevich V V	17428	Meinert A	16084	taria de Agri-		Milton R H	12062	Mojonnier H J	15451
Matsukura H	14999	Melnsner F	17138	cultura y		Mimeur G	10970	Molano	16988
Matsumoto K	15503	Melnsner F	17139	Ganaderia		Minamino R	14999	Campuzano J	17925
Matta R	16916	Melnsner F	17140	Meyer A B	13033	Minc H	17432	Molano	
Matterson L D	14032	Meissner F	15360	Meyer E	11208	Minderhoud J	15383	Campuzano J	
Matterson L D	14056	Meissner F	15954	Meyer H	15450	Miner M L	14025	Moldavan A	16086
Matterson L D	14084	Meissner F	16085	Meyer H A	12335	Mingledorff G	14435	Moldenke H N	11879
Matterson L D	14085	Meissner K	11692	Meyer H A	12740	Mingiscalco V	18043	Moldovan A	16137
Matterson L D	14086	Meissner K	11693	Meyer K	11238	Minnesota Crop	11240	Molfenter W	13154
Matterson R W	13231	Meissner K	11693	Meyer K H	15677	Improvement		Molfino J F	12127
Mathee J J	15212	Meith H C	16444	Meyer R D	11876	Association		Molfino R H	12179
Matthes D	14974	Méjane J	16509	Michael A	13091	Minnesota Dept	17531	Molina	12762
Matthies G D	11121	Melchers L E	10650	Michael B E	11185	of Education		Rodriguez F	
Matthies V D	11971	Melent'ev N V	15407	Michelson A	12682	Vocational Div		Mollemans H	12002
Mattner H	16262	Mellersh J	12942	Mickaelsson G	12871	Minnesota Dept	17532	Möller A V	14336
		Melles A B	11873	Mickevicz M J	15877	of Education		Möller E F	15673
						Vocational Div		Möller E F	16003



Item	Item	Item	Item	Item	Item
Mollin F E 13235	Morgan B B 13626	Müller H 12777	Nair N H 10965	Neethling L J 10986	
Molnar I 17525	Morgan R E 13047	Müller K K 10551	Nakagawa Y 14645	Neetzel J R 12937	
Momborg-13809	Morgan S R 14924	Müller P 10480	Nakamura K 12592	Neetzel J R 15609	
Jorgensen H C	Morgen A 11128	Müller R 12763	Nakazawa K 10483	Neff L P 12743	
Monastero S 10671	Morgenroth E 15384	Müller-15799	Nalbandov A V 14142	Negrone P 10482	
Monceau G 10672	Mori G 17663	Mangold D 10481	Nalbandov A V 14546	Neiswander C R 14876	
Monceau G 14644	Morl T 14999	Müller-Stoll 10481	Nalibotskii S B 14287	Neiswander R B 14876	
Monceau G 16456	Morini M 15885	W R 10973	Nanjo S 15001	Nekrasov P 15420	
Moncrieff R W 15166	Moritz F L 16705	Müller-10973	Naraevskii V 16802	Neller J R 11415	
Moncrieff R W 16280	Moriya A 10972	Tiburtius K H	Narayanan A B 16918	Nelson A L 11382	
Monestiroli C 13505	Morozov I R 12695	Mullick D N 13508	Narayanawami 10968	Nelson E M 12331	
Monestiroli C 13506	Morozova O I 11455	Mulligan B O 11883	S 11129	Nelson K S 11130	
Monnet G 12710	Morrell R 15167	Mullins T 15952	Narayanawami 11129	Nelson O M 14360	
Monod T 10521	Morris C S 15361	Munde H 17528	S 14397	Nelson R P 12732	
Monroe A F 12747	Morris D J 11033	Mundinger E 16070	Nash R L 14397	Nelson R T 12064	
Monsalgeon A 17981	Morris D S 15168	Munger F 15021	Nattonaal 11460	Nemchin F I 12006	
Montana State 15213	Morris E W T 14798	Munger H M 10853	Centrum voor 11460	Nemfsev N 16140	
College	Morris S 15673	Munlappa G 15323	Grasland- en 11460	Nertinger J 15957	
Dept of Zoology and Entomology	Morris S 15674	Munlappa T 17529	Groenvoederon- 11460	Nerusin V G 17329	
Montanari V 13399	Morris S T 17579	Munn M T 11884	derzoek (Bel- 11460	Nesheim R O 14502	
Montanari V 13672	Morris W E 16706	Muñoz Venegas 12770	gium)	Ness A R 13401	
Montero F de 17610	Morrison G 12003	D 15169	National Allot- 11579	Ness R R 13675	
Montfort C 11124	Morrison L 10622	Munroe E 15169	ments and 11579	Nesterenko G A 11651	
Montfort C 11125	Morrison M E 14343	Münster H 14284	Gardens So- 11579	Nesterenko G A 11652	
Montfort C 11126	Morrow E B 11746	Münter W 13980	clety 11579	Nestmann A 16989	
Montfort C 11127	Morse R E 16517	Murbarger N 16707	National Allot- 11580	Netboy A 12400	
Montgomery 13732	Morse T D 17164	Murley R 13673	ments and 11580	Netherlands 18150	
E S	Mortara G 15827	Murray D B 11324	Gardens So- 11580	Centraal 18150	
Montgomery 16367	Mortenson W P 15721	Murray D B 11649	clety 11580	Instituut voor 18150	
H B S	Mortenson W P 16984	Murray G 17024	National Barley 11272	Landbouwkundig 18150	
Monthule P 15883	Mortenson W P 16985	Murray J F N 17704	and Oil Seeds 11272	Onderzoek 18150	
Monti A 13400	Mortenson W P 16986	Murray K E 16890	Committee 11272	Netherlands 11516	
Moody E G 12500	Mortenson W P 17527	Murphy M H S 10974	National Con- 15722	Rijkinstituut 11516	
Moody E G 16281	Moscow Vse- 11456	Murty V N 13508	sumer-Retailer 15722	voor Rassen- 11516	
Mool J C 10784	sofuznyi Nauch- 11456	Musahib-ud- 11023	Council 16015	onderzoek van 11516	
Moolman J Z 11454	no-Issledova- 11456	Din 11023	National Con- 16015	Landbouwge- 11516	
Moorahrend 17326	tel'skii Institut 11456	Musgrave A J 15087	sumer-Retailer 16015	wassen 11516	
Moorahrend 17327	Kormov 11456	Musgrave R B 16187	Council 16399	Netherlands 15165	
Moorahrend 17711	Moseman J G 10673	Muslenko K 15419	National Con- 16399	Vezelinstituut 15165	
Moorahrend 17797	Moses H E 14149	Musil A F 12005	sumer-Retailer 16400	Netherlands 16232	
Moore A C 14279	Moskalenko 13156	Muspratt V M 15170	Council 16400	Vezelinstituut 16232	
Moore A C 14280	Kh S 11457	Muspratt V M 15171	National Con- 16742	Netherlands 16243	
Moore A C 14281	Moss A J E 16284	Muspratt V M 15172	sumer-Retailer 16742	Netherlands 16290	
Moore A C 14282	Moss E J 16285	Mussehl F E 13932	Council 16742	Vezelinstituut 16290	
Moore A C 14283	Mostert J W C 11458	Mussehl F E 13999	National Con- 16987	Netherlands 16290	
Moore A C 16983	Mostert T 10674	Mussehl F E 14002	sumer-Retailer 16987	Vezelinstituut 16290	
Moore C H 13918	Motherspaw T K 13913	Mussehl F E 14062	Council 16987	Nettles W C 14600	
Moore C H 13978	Mott W P Jr 11880	Mussehl F E 14063	National Cotton 16287	Neubert A M 16513	
Moore C H 17662	Motyka J 10599	Musser H B 11885	Council of 16287	Neugebauer H 14064	
Moore E N 14159	Motylenok E 15556	Mutfaev M 13674	America 16287	Neugebauer V 12332	
Moore F W 17328	Motzok I 14088	Muzzati G 14799	National Cotton- 13158	Neumann A L 14389	
Moore L A 13507	Moule G R 17926	Muzzati G 14800	seed Products 13158	Neumann A L 14515	
Moore L A 13524	Moulton F S 15531	Myers C R 14523	Association 13158	Neumann F 11462	
Moore L A 15443	Mountney G J 13936	Myers J M 15452	National Council 16288	Neumann K 13872	
Moore R E 17798	Moura V 17435	Myers W I 15777	of Wool Selling 16288	Neumann N I 12863	
Moore S A 13976	Moutte P 13768	Myers W I 17205	Brokers of 16288	Neuner J 15886	
Moore W R 16282	Moutte P 13786	Myren D 11459	Australia 16288	Neuy 17530	
Moorman R P 13488	Moutte P 13787	Myrick N 16139	National Cours- 13733	Nevgl G V 16891	
Moosbrugger 13236	Movsisiants A P 13157	Mysore Dept of 11325	ing Club 13733	Nevzorov G A 13676	
G A	Mowrey R C 14388	Agriculture 11325	National Egg 16988	New Caledonia 12333	
Mora G R 13766	Moxon A L 14019	Mysore Dept of 18047	Products 16988	Serv de l'Agri- 12333	
Morales J O 15984	Moyer E Z 17991	Agriculture 18047	Association 16988	culture 12333	
Morales Ante- 13155	Moyer J C 16512	Mysore Dept of 11241	Research 16988	Dept of Agri- 13201	
quera C	Mozgovafa R 14501	Agriculture 11241	Laboratory 16988	culture 13201	
Moran T H 12913	Mueller A C 16892	Botanical Sect 11241	National Farm 17235	Div of Animal 13201	
Moran W T 12063	Mueller C D 13979	Mysore Dept of 16368	Radio Forum 17235	Industry 13201	
Morandini E 17434	Muello A C 12004	Agriculture 16368	National Farm 17236	New South Wales 13203	
Morawek W 16283	Mügge 18096	Botanical Sect 16368	Radio Forum 17236	Dept of Agri- 13203	
Morawetz F 13767	Muir R 17927	Mysore Rural 15656	National 17236	culture 13203	
Morcos Z 13237	Mukerji S K 11498	Development 15656	Farmer's Union 16289	Div of Animal 13203	
Moreira S 10844	Mukerji S K 12182	Dept 15656	National Ferti- 12550	Industry 13203	
Morel G 10830	Mukherjee S 16889	Nadal J 13588	lizer As- 12550	New South 13582	
Morel T 16511	Mulder A 11891	Naef-Roth S 11079	sociation 12550	Wales Dept 13582	
Moreng R E 14160	Mulder D 12696	Naether C A 14285	Naudé C J 11650	of Agriculture 13582	
Moreno A F 10885	Mulder H 11882	Naether C A 14286	Naumann H D 16763	Div of Animal 13582	
Moreno J J 14975	Mulders T H 15655	Naether H W 12527	Naumann H D 16763	Industry 13582	
Morera V 10785	Mullen L A 11422	Nagel R 16611	Naumov N G 16763	New South 13590	
Moretti A 11745	Mullen A S 10613	Nageotte J C 15557	Navellier E 16457	Wales Dept 13590	
Moretti A 12330	Muller D 16972	Nagy N 17799	Nazarenko A D 11326	of Agriculture 13590	
Moretti A 12501	Muller E 11940	Nai D D 15917	Nazarov G I 15617	Div of Animal 13590	
Morgan A 12434	Müller E 16138	Naidich R 16286	Nazarov G S 13589	Industry 13590	
Morgan A E 17174	Müller F 14925		Nazarov V S 11461		
			Nearing G G 11886		
			Nedvéd A 17800		
			Needham P H 14607		



	Item		Item		Item		Item		Item
New South Wales Dept of Agriculture Div of Animal Industry	13873	New Zealand Dept of Scientific and Industrial Research	18151	Nordsiek F W	15800	Olerup H	16293	Ownbey M	11014
New South Wales Dept of Agriculture Div of Animal Industry	14118	Newcomer E J	14926	Nordskog A W	13993	Oleson J J	14066	Owtram I H	14504
New South Wales Dept of Agriculture Div of Animal Industry	14161	Newell P F	13288	Nordyke J W	13403	Oleson J J	14182	Oxford University	17437
New South Wales Dept of Agriculture Div of Animal Industry	14162	Newell P F	13677	Norgaard K	12567	Oliver J P	13160	Agricultural Economics Research Institute	
New South Wales Dept of Agriculture Div of Animal Industry	14404	Newell W E	17206	Norges Koopera-tive Landsforening	17859	Oliver J P	13509	Ozernyi M E	11328
New South Wales Dept of Agriculture Div of Animal Industry	14409	Newey H A	16892	Norrbottnens Låns Hushållningssällskap	18049	Oliveira J D de	16294		
New South Wales Dept of Agriculture Div of Animal Industry	14410	Newland H W	14498	Norris C B	13060	Oliveira M	17208	Paarlberg D	16992
New South Wales Dept of Agriculture Div of Animal Industry	14538	Newman L H	10675	Norris C B	13069	Oliver A W	14360	Paarlberg D	17015
New South Wales Dept of Agriculture Div of Animal Industry	14540	Newman L H	15173	Norris C B	13070	Oliver G B	15176	Paarlberg D	17018
New South Wales Dept of Agriculture Div of Animal Industry	14958	Newman P E	13402	Norris C B	13074	Oliver H	13593	Pabst	13162
New South Wales Dept of Agriculture Div of Animal Industry	14646	Newman V E	14288	Norris F H	10930	Oliveros S B	11542	Pabst	13898
New York Agricultural College	15442	Newsham J C	11581	Norris K	14223	Olmo H P	11750	Pabst	13899
New York Dept of Agriculture and Markets	16178	Newton G E	16291	Norris L C	14101	Olooufa M M	13312	Pacheco M F	15724
New York State College of Agriculture and Home Economics	17801	Newton H C F	14647	Norris L C	14101	Olsen M W	14052	Packer F A	16946
New York State Dept of Agriculture and Markets	16180	Newton J	15174	Norris L C	14290	Olsen M W	14130	Paech K	16515
New Zealand Dept of Agriculture	14276	Neyhart A E	15958	Northwestern States Brucellosis Conference	13238	Olson H C	16142	Pagan C	12114
New Zealand Dept of Lands and Survey	10619	Nguyen-bao-Nghia	15689	Norton L B	16206	Olson R L	16743	Pagani A	17667
New Zealand Dept of Science and Industrial Research	10622	Niaz Ali C	11653	Norton L J	17165	Olthoff B H	11243	Pagani A	17668
		Nibler C W	15558	Noske H	18019	O'Mary C C	14411	Pagani F	17931
		Niccoli E	11327	Noskov N M	13678	O'Mary C C	14412	Pagani F	17932
		Nichols L P	11722	Nosyrev S S	17207	O'Meara J P	16004	Page R M	11135
		Nichols N Jr	17695	Novak A F	18022	O'Neil J B	14163	Pagllari G	11329
		Nicholson R	11463	Novikov A I	12799	O'Neill J	13161	Paine K E	11330
		Nickell L G	11131	Novikov E A	13298	Onishchenko A I	12008	Paine K E	12065
		Nickerl A	14289	Novikov G	15526	Onofrio P	16744	Painter D T	12502
		Nickerson D	16292	Novopokrovskiy I V	18097	Onrust H	16207	Palxao O S	16708
		Nicolaisen N	11582	Novoskov F V	11242	Ontario Dept of Agriculture	18051	Pakhirko A	16143
		Nicolaisen W	17067	Nubourgh Y	11888	Oort A J P	10677	Pakhutsov Z	13093
		Nicolay H K	13591	Nuccio J	11889	Ootani S	17436	Paley K	15679
		Niederfrank E J	17237	Nuez Carruana J de la	12180	Opatić I	13014	Palladina O K	18020
		Niederfrank E J	17824	Nupson H N	16087	Oparin A I	18052	Pallotta F	15505
		Nielebock E W	14330	Nulend H C K	17535	Orbea J R	10975	Palm E	16671
		Nielsen A R	15959	Nunn A	17665	Ordoux L	17666	Palm T	14928
		Niemann J	16990	Nusbaum C J	10720	Ordoux L	17874	Palm T	14929
		Nieschlag F	18134	Nyhlen A	11749	O'Reilly L J	16745	Palm T	14930
		Niessner W	17873	Nyhug G	13679	Oreshkin P N	11373	Palmer A W	16297
		Niggel	12866	Nys P F de	12181	Organization for Scientific Research in Indonesia	17975	Palmer A Z	16763
		Nightingale A E	11747	Nvsterakis F	11133	Orlov I	12336	Palmer E	12552
		Nikitin A A	11132			Orlov I V	13255	Palmer J G	14528
		Nikitina A I	14801			Orlov M F	14802	Palmer Z	16764
		Niklas	12334			Orobchenko V P	12128	Palmira Colombia Estacion Agricola Experimental	18053
		Niklas	12551			Orr C W	16295		
		Niklas O	10786			Orr H L	15559	Palisson E	13406
		Nikolaev A	16141			Orr H L	16929	Pammer F	11331
		Nikolaeva V G	16383			Orrell W R	14648	Pampalon E	12436
		Nikolaiczuk N	14057			Ortega Sada J	14803	Pan American Union	15611
		Nikolaiczuk N	14065			Orth A	11541	Div de Asuntos Sociales y Trabajo Seccion de Cooperativas	
		Nikolitch D	14361			Ortiz G	11583		
		Nikolitch D	14436			Ortiz	12129		
		Nikonorov I	16819			Garmendia J		Panda J N	14067
		Nikolskij I	15385			Osborne H B	16991	Panek H	16993
		Nilsson R	16478			Osborne W W	16966	Panella A	11136
		Nilsson-	11626			Osburn M R	14927	Panfilets V K	14804
		Leissner G				Oser M	14649	Panfukov D N	15421
		Nilsson-Tanner P	12593			Osmani J J	15043	Panfukov V	15324
		Nissen B H	15887			Ospov K	12009	Pankaskie J E	13469
		Nissen M	17664			Ostermiller J V	12381	Pankov G	12887
		Nissen O	12335			Oswald J W	10854	Pankov I P	17803
		Niven L A	11748			Otaguro W H	11891	Panov M A	12010
		Nivison R Jr	12989			Othmer D F	15723	Panov M A	12130
		Nixon W M	11464			Ott G L	13804	Panshin A J	12914
		Nixon W M	11465			Ottlinger L	12958	Panzer W	15680
		Nlzi G	14987			Ouchi N	10483	Papanas S	12568
		Noble P	13817			Ouellet A	13092	Paquin A M	13163
		Nodland T R	17531			Outhouse J B	14390	Pardo Pascual M	11374
		Nodland T R	17532			Outin G	15044		
		Nodland T R	17533			Ovchinnikov M P	17111	Parancia C R Jr	14609
		Nodland T R	17534			Overbeke M van	16296	Parancia C R Jr	14650
		Noirot C	15231			Overcash J P	11751	Parancia C R Jr	14931
		Nolan A	17041			Overgaard S	17930	Parez M	15560
		Noland P R	14503			Ovsfannikov F G	13405	Parham A P	13510
		Nolen R	17042			Owen F W	15961	Paris Institut National du Bois	12959
		Nolin W T	11466			Owens H S	15681		
		Nomine H	16098			Owens J V	10887		
		Nomine H	16099			Owens R D	13613		
		Nonnecke I L	11627			Ownbey M	10553		
		Nonnecke I L	11887						
		Nonnecke I L	12007						
		Noordam D	10676						
		Nordenskjold von	12381						



Item		Item		Item		Item		Item	
Parker J B	13407	Peckham C L	16259	Peru Minis-	13981	Placco R	12069	Polozhentsev	14935
Parker J H	16613	Pedersen A	11244	terio de Agri-		Placco R	12070	P A	
Parker K G	10840	Pedersen H A	17713	cultura		Plal'zing E	13514	Poltavchenko	15422
Parker M W	11137	Pederson C S	16392	Seccion Propa-		Picard A J	16145	P S	
Parker M W	11892	Pederson C S	16505	ganda Biblioteca		Picard J	15178	Poltev V I	15089
Parkin I E	15359	Pedrick R	16165	y Publicaciones		Picchi A	13411	Pomeranfssev	14654
Parkin I E	15362	Peech M	11150	Peruchon J	13165	Pichler F	11142	D V	
Parks S L	15561	Peeler H T	14521	Peruchon J	14165	Pichon M	10555	Pomerooy B S	14141
Parks T H	15177	Peer R	11894	Peruchon J	14166	Pickel W	15962	Pomerooy B S	14170
Parks W R	17438	Peelkamp P K	12202	Perumal S	12226	Pickett J	13034	Pomerooy K B	14655
Parnas J	17875	Peers L	15590	Peschetz H	14806	Pickett J	15363	Poncin L	12133
Parrini U	11654	Pegg S E	13683	Pescio M S	14807	Pickett J	17068	Pond G A	17531
Parrini U	12011	Peirsol R	13788	Pessanha	12131	Pickett R C	11143	Pond G A	17532
Parris G K	10678	Pejoski B	13023	M V T		Pickett R C	11211	Pond G A	17533
Parrish D B	13526	Pela	17611	Peterson A G	15045	Pien J	16146	Pond G A	17534
Parrish D B	14164	Pelczar M J Jr	13055	Peters B	11140	Pierce L A	12992	Ponomarenko	14656
Parrish D B	14505	Pelka F	17669	Peters B G	10888	Pigeon R E	16946	D A	
Parrish F T	12967	Pelkwijs	11720	Petersen	16208	Pigulevskii S V	14988	Pons J E	17549
Parry R O	17933	A J ter		Petersen H	12167	Pillander R	13353	Pons Florit J	13413
Parry-Jones	14651	Pellegrin V	13164	Petersen H I	12067	Pilcher H L	18001	Ponsonby C E	16300
Parsons E	18117	Pelshenke P	16614	Petersen H I	12068	Pilgram R	17112	Pont A	10682
Parsons J L	12990	Pelshenke P	16615	Petersen N	14541	Pilgrim A J	16528	Poolle A L	10557
Parsons L C	16994	Pena M T de la	17714	Petersen N	16071	Pilipenko F S	12764	Poolle B H	11898
Partain L E	16049	Pence R J	14933	Petersen N	16072	Pillinger D B	14543	Pope A L	14379
Paschke M	14805	Pender L D Jr	11895	Petersen W E	13513	Pineda C C	12339	Pope A L	14391
Pasinetti L	10679	Penfound W T	10924	Petersen W E	13560	Pini P L	11245	Pope A L	14411
Paterson R	13511	Pentecost E	13408	Petersen W E	13684	Pino J A	14169	Pope A L	14412
Paterson R	17307	Pentzer W T	15798	Petersen-	13166	Pino J A	16998	Pope A I	14413
Pathak A N	12182	Pepe T L	16993	Dalum J		Piontkovskaja	14877	Pope E	12204
Pathanian P S	10858	Pepler W A E	12711	Petersen-	17537	S P		Pope L S	14362
Patil R M	16995	Pepper J O	11903	Dalum J		Piper W E	16426	Pope L S	14377
Patil V M	13512	Pepper J O	11905	Peterson A	15093	Pippen E L	15681	Pope L S	14392
Patissier J	16516	Pepper J O	11906	Peterson B	11897	Pires D R V	18099	Pope W H	16999
Patrick H	14068	Pepper J O	11907	Peterson C F	14069	Pires M A	10486	Popov B N	16209
Patron A	16391	Pepper W F	14088	Peterson D W	14070	Pirie N W	10855	Popov G O	14989
Patrone I M	10680	Pepperall R A	16050	Peterson E H	14167	Pirle N W	17134	Popov I	16147
Paflora P P	12864	Pereau-Leroy	10977	Peterson G A	16997	Pirzada A R	12249	Popov V A	15507
Patterson C F	11629	Pereira J V	17612	Peterson W J	12219	Pischler L	18055	Popova E M	12014
Patterson C F	11893	da C		Petillon G	17805	Pitman-Moore	13769	Popov'fanfs M N	13983
Patterson E B	10976	Perez de Gracia	12437	Petit-Laurent	17209	Research Farm		Popovic V	12713
Patterson M E	12086	J J		V S		Piveteau J	10487	Popp W	10726
Patterson P	13681	Perez Garcia M	12337	Petri L H	15214	Pivovarov P N	11461	Popplow U	13595
Patterson W	14571	Peris y Pérez P	11896	Petrochi C	17670	Plackett R L	14913	Poretskii M A	12642
Patton H B	14389	Perkins B K	15562	Petrov A M	13255	Plaisance G	12595	Porter A M	17935
Patton M B	18021	Perkins D D	11019	Petrov B F	12228	Planje J P	17671	Porter A R	13515
Paulhus N G	16996	Perkins S	13409	Petrov E M	12132	Planje J P	17672	Porter H G	17439
Pauschenwein J	14331	Perkins S	13409	Petrov M P	10484	Plant W	12340	Porter H K	11212
Pavlech H M	13174	Perrier M	12338	Petrov M P	10485	Plant Pro-	15474	Porter R H	17806
Pavlikhin N F	13682	Perrier de la	10554	Petrov P E	12853	tection London		Porter R P	12525
Pavlichenko	17150	Bathie H		Petrov V F	14542	Plasse J B v d	11084	Portoflanko V F	11334
E E		Perron A	13734	Petrucchi D	11141	Plasse J B v d	14653	Portolano N	12134
Pavlovskii E N	12158	Perronet	18135	Petrushova N I	10787	Plasse J J v d	15599	Portugal Institu-	15801
Pavlovskii E N	18054	Perry H J	12991	Petschk	15988	Plastridge W N	13337	to Nacional de	
Payne G F	14395	Perry J	15506	Pette J W	16144	Plastridge W N	13338	Estatistica	
Payne L F	14164	Perry T D	12901	Pettigrove T H	14292	Plate R	16616	Portugal Insti-	15836
Payne M G	11077	Perry T D	12902	Petunin F A	13239	Plate R	16617	tuto Nacional	
Peacock A D	15088	Perry T D	12960	Petzsch H	13914	Platt K B	12036	de Estatistica	
Pearce C K	12036	Perry T D	12961	Peynaud E	15989	Platt R B	10556	Porvatova O	16834
Pearce E T S	17927	Perry T D	12961	Peyronnet	15778	Plattenteich W	13412	Posnette A F	15049
Pearse R J	17804	Perry V G	13735	Peyronnet R	17934	Pleshakov M	16820	Posnette A F	15050
Pearson A	12066	Persch F	12594	Pfeifer S	10681	Pietzen J C van	15990	Post J J	13685
Pearson A M	13478	Persson N	16369	Pfeiffer F	16299	Plinka A D	12012	Post J J	18136
Pearson A M	14476	Peru Dept de	15828	Pflazgraf	12712	Plushch A V	11467	Post L O A von	11789
Pearson A M	14477	Economia		Phagan C V	15640	Plow R	12865	Postal D	11630
Pearson A M	14478	Rural		Phillip H	14451	Plumlee M P	13481	Postal D	11695
Pearson A M	14478	Peru Dept de	15929	Phillip H	12439	Plumlee M P	15354	Postan M	17673
Pearson A M	18022	Economia Ru-		Phillips A M	10770	Plummer C C	15046	Postma J	15364
Pearson F A	15777	ral		Phillips A M	14934	Plunkett D C	13982	Postnikov V F	11335
Pearson H	18118	Peru Dirección	12227	Phillips E O	16894	Pochon J	10788	Postofalkin P	16821
Pearson H E	12248	General de		Phillips H J	14168	Podshivalov F A	11332	Potapov A I	16749
Pearson P B	13103	Agricultura		Phillips P H	13167	Poe W D	15725	Potter C	14607
Peat S	11201	Div de Agro-		Phillips P H	13457	Poinsot L	13874	Potter F E	16005
Peattie D C	10552	logia Suelos y		Phillips P H	13457	Pol P H van de	15047	Potts J W	17729
Peattie D C	12697	Abonos		Phillips P H	13495	Pol P H van de	15048	Potts R C	11469
Peattie R	17712	Peru Junta Na-	16298	Phillips P H	13594	Polderman B	11333	Potzger J E	10925
Pechenifina	11138	cional de la		Phillips P H	14018	Poletika N V	12841	Potzger M E	10925
A M		Industria		Phillips P H	14379	Polfakov A A	13240	Poulsen J F	12341
Pechenifina	11139	Lanar		Phillips P H	14413	Polfakov L	17330	Poultry Im-	14293
A M		Peru Ministerio	14652	Phillips P H	14510	Polfanskii V	17358	provement	
Pechnikova S S	11105	de Agricultura		Phillips P H	14550	Pollard A G	12174	Board of New	
Peck E C	12900	Dirección Gene-		Phillips T A	11390	Pollard R D	12013	York	
Peck E C	13071	ral de Agricul-		Phillips R W	13290	Polosatova E V	18056	Pounden W D	13485
Peck M E	10553	tura		Phipps H	13410			Pounden W D	13486
								Powell E	13516



Item	Item	Item	Item	Item
Powell K A 17936	Quemere F 14936	Rapin J 10792	Reichert R 15892	Riddell G E 15729
Powell R W 16130	Quessenberry J R 13094	Rapley R 14073	Reichert E 15563	Riddell G E 15730
Powers J J 16517	Quick Frozen 15802	Rapley R 14294	Reichert T 13072	Riddell W H 18024
Powers M J 16525	Foods 16303	Rapley L E 11137	Reid J P 11940	Ridder C A 15583
Powers W 11145	Quig J B 16304	Raschke O 16765	Reid J T 13168	Ridrujo Ruiz- 12443
Pozdena L 12526	Quig J B 12735	Raski D J 10889	Reid W D 10619	Zorrilla L
Pozdena L 15423	Quigley K L 12735	Raski D J 12522	Reid W W 16446	Riecken T O 17522
Pozdnak F 16006	Quinby G E 15003	Raskopf B D 16310	Reiff F 15686	Riedel B B 14173
Praksis S S 11246	Quinn J P 14171	Rasmussen A O 11903	Reiff F 16620	Riedel B B 14174
Prasolov L I 18100	Quinteros M 12503	Rasmussen A O 11904	Reimer C 11696	Riedel B B 14175
Pratolongo U 17580	Quisenberry 13921	Rasmussen A O 11905	Rein H 16312	Riedel B B 14176
Pratt R M 11655	J H 13922	Rasmussen A O 11906	Reindel F 16393	Riemschnel- 13245
Preece I A 15891	Quisenberry 13922	Rasmussen A O 11907	Reindollar W F 15657	der M N
Preobrazhen- 12440	J H 14087	Rasmussen A O 11908	Reinecke H 12643	Riemschnel- 14663
Prescott J A 18137	Quisenberry 14087	Rasmussen W D 18059	Reinecke I 14587	R
Prestilanni N 17674	J H 12072	Rastapin I T 13875	Reinecke V 12016	Riet G van 't 17069
Prettle R J 12929	K S 13596	Ratchford C B 17440	Reinecke V 12016	Rietberg H 17115
Preuss W 17876	Quittet E 13596	Rath E 13243	Reinelt F 11910	Rieu-Peyroux 13940
Prevo A A 14071	Raah J 17696	Rath G 13539	Reinhardt W 17581	Riggs J K 13440
Prevosteau G 14363	Rabéchaux H 10558	Ratnam C V S 13013	Reinhart B 13983	Riggs J K 13510
Price W T 17807	Rabinowitz D 17955	Ratnikov V 13689	Reinigt M 17238	Rilegor A M 12699
Price W T 17808	Rachner M 17043	Rattenhuber E 13838	Reisch 17768	Riley N D 15172
Prideaux R M 15179	Radeleff R D 14592	Rau A A 18138	Reistrup R 15805	Riley N D 15172
Prien C H 17120	Rader J 12698	Rau F A 14374	Reiterer M 12344	Rinderle P J 15966
Principi P 12229	Radford J B D 17675	Raudsandmoen 13818	Remez D N 14811	Rindfleisch- 14177
Pring G H 11899	Radford J B D 17675	Rauh W 10980	Rempt J D 17937	Seyfarth M
Pring G H 11900	Radkevich A 15262	Rausch 12714	Renard M M 13960	Ringdahl O 14990
Pringle A N 12683	Radeside J I 13597	Rauscher H 14659	Renaud M 11657	Ringin J 15967
Pringle A V 16301	Ragazzi G 11375	Rautnig J 13035	Rendel J M 13417	Ringrose R C 15564
Pringle J W 12393	Ragond G L 15325	Raux L 16296	Rendig V V 12345	Ringuelet E J 10488
Priselkov A M 13241	Ragonese A 10927	Raveux R 11146	Renier M 12996	Ringuelet E J 10522
Pritchett D E 16524	Ragsdale A C 14611	Raveux R 11147	Renken 12684	Rintelen P 17540
Pritchett W M 16302	Rala N 12441	Rawlings B R 17221	Renneberg A 14295	Ripper W E 14664
Probst A H 11523	Rala N 16305	Rawlings W 12442	Renner- 15365	Risher F W 17002
Procaccia C 17900	Ralband G 13518	Rawson G 11753	Dreisielen 15365	Risi J 13037
Procter J 13517	Ralband P 13518	Ray S C 15993	Reintrop E 16672	Riso R 16313
Procter & Gam- 16895	Raldt W 12015	Raychaudhuri 10858	Rentschler H 15893	Rissinger M 18000
ole Company	Raines M L 16149	S P	Rescigno G 18023	Rittershaus W 13600
Buying Dept	Rainey L R 13323	Rayfour N 16518	Reshetov A V 12862	Rittershaus W 17444
Proudfit F T 17983	Rainey L R 13688	Raymakers R 15727	Reusser P 11079	Ritzhaupt L H 13984
Provan A L 13414	Rainwater C F 14627	Rayment T 15090	Reutersward G 11911	Riveros J E 12346
Prudnikov I A 17538	Rainwater C F 15051	Raymond- 11200	Révérend J A 13244	Riveros J E 15895
Prummel J 12342	Raja S 16822	Hamet M 16371	Reviakin I U 15386	Riviere J F 15527
Prushek E 11940	Rajan S V G 12569	Raynor T E 16371	Reyes P 16152	Rivière R 13763
Pruthi H S 15215	Ralston Purina 14544	Razov P 12888	Reynolds K 15713	Rix M M 11912
Pryor M R 12071	Co 16619	Razviakina 10859	Reynolds M C 17614	Rizet G 11015
Pshenichny P D 13292	Ramadoro A 17676	G M 17044	Reynolds P A 15387	Roach F A 11698
Puccini G 11901	Ramakrishnan 16891	Re R R 17044	Rheam W 14296	Roach F A 11699
Puchkov G 14657	C V 10789	Rea G H 14910	Rheinheimer O 14912	Roach T E 17730
Puchkov V G 14657	Ramakrishnan 10789	Read H 12183	Rhijn A A van 17715	Roan H M 11913
Puech J 14886	T S 10965	Reading England 17558	Rhodes W F 17001	Roane C W 10686
Puerto Rico 18057	Raman V S 10965	University 17558	Rhys J P 17697	Roark C 12505
Comisionado 18057	Ramanathan K 10947	Dept of Agricul- 17558	Rhizantseva N M 13939	Roark C L 11474
de Agricultura 18057	Raminella P 16306	tural Economics 17558	Ribeiro G A 14572	Roark C L 17541
y Comercio 18057	Ramirez J C 17113	Reams W M Jr 11909	Ribeiro J H C 14661	Robach S 17938
Puhlmann 14072	Ramiro M P 12994	Reaves P M 15453	Ribereau F 12504	Robb T R 15243
Pulkki L H 16618	Ramos 16619	Rebiffé J 15804	Ribereau F 17441	Robbins W W 12073
Pulliam A L 13686	Gonzalez A 10790	Rebour H 11656	Ricardo A 17984	Robbins W W 12074
Pullig T 17336	Ramsfjell T 10684	Rebour H 14660	Ricasoli B II 18101	Robblee A R 13112
Purdy E C 11902	Ramsfjell T 10685	Record M E 12839	Ricasoli L 15894	Robblee A R 14075
Puri G S 10926	Ramstad P E 15803	Red Poll Cattle 13415	Ricci A 11697	Roberts E 11914
Purser R 11470	Randall L E 15726	Society 13415	Rice E L 10928	Roberts F J 15896
Pursey M 14808	Randall L E 16307	Redden C A 12995	Richard R M 14413	Roberts F M 10860
Pursey M 14809	Randles C A 14172	Reddy D B 14937	Richards P 15964	Roberts F W 12997
Puster J G 13687	Randolph C 14437	Redemann C T 10460	Richards P 15965	Roberts L J 17985
Putnam J A 12814	Randolph H S 17809	Reece P O 12842	Richardson D 14506	Robertson A 13417
Putnam P L 17539	Randolph W L 16308	Reece R P 13416	Richardson L R 13103	Robertson A 13601
Pyenson H 16148	Randolph W L 16309	Reece R P 13598	Richardson L R 14015	Robertson D S 10976
Pyne Gould 16746	Rankin J F 13242	Reed F D 17000	Richardson L R 14074	Robertson E I 14076
Guinness 16746	Rankin W H 10791	Reed H E 16653	Richardson T C 13169	Robertson E I 14077
Quadri P 15963	Ransom J E 12205	Reed H F 15728	Richardson T C 13418	Robertson G L 14545
Quadri P 16073	Rao C V 12058	Reed I F 15508	Richardson T C 13418	Robertson L 15731
Quarjier H M 10856	Rao D A A S N 17114	Reed J S 15641	Richardson J D 11473	Robertson N F 15049
Quattrocchi N 17613	Rao D S 14658	Reed O E 16150	Richer A C 12335	Robertson R N 16519
Queensland 17263	Rao D S 18058	Reese C E 16311	Richmond T R 11367	Robertson T C 18152
Commissioner 17263	Rao H G G 12343	Reese J D 14343	Richmond W L 16824	Robertson W M 12644
of Land Tax 17263	Rao S N 15241	Reeves F 11472	Richter F 14507	Robichez L 16314
Queiroz J de 11471	Raper J R 10979	Reeves F 13900	Richter J 17442	Robinet A H 13763
B R 11471	Raphael T D 10857	Reeves G T 16430	Richter J 17679	Robinet A H 14414
Queiroz J 12765	Raphael T D 11752	Régo J F do 16823	Richter K 13170	Robinson A R 17991
de B R 12765	Raphael T D 16370	Rehman M A 13036	Richter K 17443	Robinson C 17003
		Rehr K 12903	Richtzenhain h 13056	Robinson C A Jr 15632
		Rehr K 15326	Rickard J A 14662	Robinson C H 17983
			Rickey L F 15454	Robinson D H 11517



Item	Item	Item	Item	Item	Item
Robinson G E Jr 14546	Rosenkrantz G 13770	Rupp R G 14509	Sallans H R 16397	Schaller H L 18063	
Robinson G E G 13246	Rosenstiel 11247	Rupp R G 14665	Salles C 16121	Schambach H 13016	
Robinson J L 13805	R von 15897	Ruppert 12646	Salo T P 16730	Schanderl H 15901	
Robinson W B 16386	Rosenthal J 17681	Ruppert A 16626	Salomon G 17026	Schaps T 13844	
Robinson W B 16520	Rosl M 17682	Rural Life Conference 17721	Salqualin J 16315	Schaub B V 12963	
Robison W L 14508	Ross O B 13520	Rush J D 15265	Salter R M 12553	Schaub J 12605	
Roca R 16896	Ross O B 13620	Rush J D 17240	Salton G L 15591	Schaus R 13421	
Rocca G 16621	Ross O B 14488	Rushoff L L 13521	Salvador A N 15898	Scheibe K 14943	
Rocheftort M 17175	Ross O B 14522	Rushoff L L 13604	Salvador y 18103	Scheid H E 16731	
Rochmann R 13247	Ross O B 14556	Russchen J 14666	Ascaso J M 15899	Schelding C 13986	
Rockwood L P 10614	Ross R H 17986	Russell M L 13420	Samaniego R 12324	Schelhorn M von 15756	
Rodale R 12347	Ross S G 17987	Russell H S 12506	Samat M 14878	Schelper E 13422	
Roddy W T 16729	Ross T C 14547	Russell J L 11917	Samat M 15367	Schenck H E 17879	
Rodendorf B B 18060	Ross-Craig S 10489	Russell M 15971	Samat M 15565	Schenk P J 10696	
Rodewald B W 14636	Rossi L 16747	Russell R C 10691	Samat M 15566	Schenk P J 10697	
Rodgers N E 14521	Rossi L 17939	Russo G 14667	Sami M A 13524	Schenk P J 10795	
Rodin A 16825	Rossi Lema L 16154	Rutgers Univer-sity 13171	Samokhvalenko S K 11477	Schenk P J 10861	
Rodrigue X N 14452	Rossi R P 13771	Bur of Biological Research 12206	Sample G W 17878	Schenk P J 14879	
Rodriguez Casals C 16826	Rossi U 11338	Rutherford D M 11658	Samset I 12872	Schenk P J 15091	
Rodriguez J A 15007	Rossovskaf V S 12206	Rutherford D M 14668	Samuel F 17447	Schenker P 10877	
Rodriguez J G 14876	Rost C O 12430	Rutledge M M 17991	Samuel P 17448	Schenker P 14671	
Roe A J 17877	Rost H 14941	Ruttak V 13789	Samuels J K 16521	Scherret 12076	
Roe B H 18102	Rostovtseva Z P 10981	Ruttledge M H 14297	Sanborn H 13772	Scheruga 15328	
Roe E I 12939	Roswall G 14813	Ruys C L W 10890	Sandegren E 16627	Schery R W 11923	
Roeder G 15968	Roth E R 10793	Ruys C L W 10890	Sanders P M 12647	Schesser J 18064	
Roeder G 16074	Rothkopf P 17445	Ruys C L W 10890	Sands M 11918	Scheunert A 18025	
Roeder G 16153	Rotsch A 16623	Ruys C L W 10890	Sandstede H 10615	Schewczik R 15329	
Roentoe F K W 13248	Rotsch A 16624	Ruys C L W 10890	Sane R H 16517	Schleferenz J 15973	
Roever W E 11754	Roubert J 15846	Ruys C L W 10890	Sanf S 12138	Schleferenz J 16053	
Rogacheva A I 15682	Rountree G V 15806	Ruys C L W 10890	Sannlé C 11213	Schietart L J 17266	
Rogers D P 10617	Rousseau A 12136	Ruys C L W 10890	Sannikov V S 11700	Schietart L J 17684	
Rogers J S 11336	Roux E R 12075	Rybin V A 11659	Santiago D 15004	Schild E 16630	
Rogers J S 13015	Roux-Dufort 17812	Rydberg C 13977	Santos Pastor A 17683	Schilling 12768	
Rogers W 15732	Rowbotham W R 15263	Ryff J F 14415	Sapp J E 12998	Schilling A O 13987	
Rogler G A 10568	Rowe J Z 17239	Ryzhkov S V 12778	Sappak M 15600	Schillthuls J 16631	
Rohr M R 15995	Rowe R 12444	Saarinen P 13524	Sargent M H 11919	Schimke J 12220	
Röhrig E 14997	Rowell J O 10846	Sabin A R 16905	Sarkar P K 16827	Schimmel-pfennig 17941	
Rohrer S A 14991	Rowlands A 16766	Sabrosky C 14992	Sarlet H 10490	Schlamp B 13988	
Rokhlin S 12135	Roxas M L 11542	Saburov N V 16447	Sarthou-Moutengou J 14439	Schleier H 13879	
Roland A 15969	Royal Bank of Canada 17446	Sacantis K 14976	Sarvas R 12767	Schlemmer H F 12077	
Rolle M 13249	Royal Geographical Society of Australasia South Australian Br 18061	Sacco P 13172	Sassmann-Schausen F 12889	Schlenker G 12749	
Romanini A 12570	Royal Guernsey Agricultural and Horticultural Society 13419	Sacco P 13605	Satyanarayan-murthy K 11169	Schleusener P E 12393	
Romanoff A L 14172	Rozanov V G 15509	Sacco P 16051	Sauer H 14670	Schlessleder R 17814	
Romanoff A L 14178	Rozenbaum T A 17151	Sacco P 16709	Sauerteig H 16628	Schluga N 12348	
Romanoff A L 17004	Rozhkov G I 13876	Sachs H 10891	Sauze F 15388	Schluga-Tschuttnig N 15601	
Romanov A A 10687	Rozov N N 12232	Sackel 12866	Savage J E 14080	Schmalzriedt B 16206	
Romatif F 17811	Rubber Research Institute of Malaya 12137	Sackston W E 10692	Savage Z 17582	Schmauss H 16632	
Römer R R 14179	Rübel E 10909	Sadler W W 14298	Savaglio I 13690	Schmedemann O 14549	
Römer R R 17005	Rübensam E 11001	Sadovnikova N 14501	Savary A 15244	Schmehl W R 11150	
Romero I A 12230	Rübensam E 12250	Sadun E H 14180	Savich I A 14453	Schmid E 10929	
Romero R I 12604	Rubenstein S 15264	Saenz Fety G 12017	Savile D B O 10616	Schmid E 12843	
Romolotti A 11475	Rubin S 12384	Safonov S 16710	Savile D B O 10626	Schmid G 16373	
Römpert W 14332	Rubin S M 11755	Sagalovich E N 12018	Savin G 16372	Schmidt 15054	
Rompré N 17116	Rucker N S 11916	Sägval K 14814	Savini E 16155	Schmidt 17006	
Ronchi V 17680	Rudolf J 13856	Sah P P T 11149	Sävulescu T 17449	Schmidt B 16633	
Ronge H 13799	Rudolf P O 12801	Said M B 17940	Savzdarg E E 14942	Schmidt F 13800	
Rönnebeck W 15052	Rudolf W 10689	Saillard 14548	Sawada G 11920	Schmidt H 11701	
Roos M J 13985	Ruggieri G 10794	St Clair H 13790	Sawada H 15000	Schmidt H 11756	
Roos O 16622	Rul D 10690	St-Germain M 16711	Sawyer M T 11921	Schmidt H 11757	
Rosa M de 11337	Rul D 15053	Saint-Quentin M 13943	Sax K 11922	Schmidt H 14393	
Rosa M de 17166	Rul D 15182	Saint-Quentin M 13978	Scales A L 14626	Schmidt H W 14916	
Rosager H K 13519	Ruiz Castañeda M 13250	Saint-Quentin M 14669	Scales A L 14866	Schmidt H W 16448	
Rosand J 11631	Ruiz Martínez C 13603	Saito M 16007	Scapaccino M 15972	Schmidt J 13422	
Rosand J 11632	Ruilen Mrs W 13841	Saja F 17210	Scaramuzzi G 10694	Schmidt J 16852	
Rosay 12645	Rumi J 15327	Saks E V 12962	Scattolin L L 16052	Schmidt J 17007	
Rose F H 11915	Runnels T D 14078	Sala E 16210	Scarseth G D 10892	Schmidt K 16767	
Rose P D 14438	Runnels T D 14079	Sala Roca E 11339	Schaal L A 11077	Schmidt M 11016	
Rose P D 15366	Rupp E 15970	Sala Roca E 11340	Schactlivyl A K 12139	Schmidt P 14944	
Rose-Miller G P 17542	Rupp E 16625	Salaev I A 11476	Schaefer E E 10695	Schmidt R 14300	
Rosell D Z 12231		Salamov A B 11341	Schaefer H A 16673	Schmidt S 13606	
Rosella E 10688		Salas C A 10693	Schaeffer R L 10559	Schmook A 13737	
Rosella E 14938		Saldana C T 12766	Schaerffenberg B 18062	Schmultz D C 14353	
Rosella E 14939		Saldias M O 12700	Schäfer H 14299	Schneider 12658	
Rosella E 14940		Salegård A J 14573	Schäfer W 16629	Schneider B H 13173	
Rosella E 15181		Salei P I 13968	Schaik T van 18005	Schneider B H 13174	
Rosena H 17265		Saletore S A 13017	Schaller F 14815	Schneider C G 16828	
Rosenau H 17265		Salfae V A 13255	Schaller F 15245	Schneider F 14945	
Rosenberg J L 11071				Schneider G 13607	
Rosenberger G 13602				Schneider G 17267	
Rosenberger G 18093					



Item	Item	Item	Item	Item
Schneider K T 13293	Sciaroni R H 11151	Serv des Génit- 14364	Shewell-Cooper 11581	Slijtsma P 17268
Schoebel A 17815	Sciuchetti A 13095	teurs de l'Union	W E	Slijtsma P 17269
Schoeffelmayer 15687	Scorgie N J 14457	Ovine de France	Shewell-Cooper 11584	Sikes D 13488
V H	Scotland Dept 12021	Servi G 10798	W E	Silin P M 17118
Schoene W 13880	of Agriculture	Servici de 12185	Shewell-Cooper 11585	Silina A A 11095
Schoenleber L 14215	Scotland Dept 12022	Rondini M A	W E	Silker R E 16211
Schoenleber L G 15443	of Agriculture	Setterstrom C A 16317	Shewell-Cooper 11586	Siloret G 11634
Schoffelmayer 15807	Scotland Dept 17685	Sevastopulo D G 15184	W E	Silva D da 14675
V H	of Agriculture	Sevastopulo D G 15185	Shewell-Cooper 11587	Silva R B 16936
Schönbach 12207	Scotland 17685	Severin H H P 10863	W E	Silveira A H 17988
Schonberg J 16634	Standing	Severin H H P 10864	Shewell-Cooper 11633	
Schonfield A 17117	Committee	Severin H H P 10865	W E	Silveria A 14932
Schoonens J G 15808	Scott A H 11924	Severin H H P 15055	Shewell-Cooper 11927	Simmons F 10699
Schoorel A F 12140	Scott E 11924	Seville H 13773	W E	Simmons V 16757
Schotman J W 14817	Scott H M 13926	Sewell R F 14478	Shewell-Cooper 12025	Simms B T 13254
Schouppé K 13608	Scott H M 14081	Seymour B 17816	W E	Simms J 17818
Schowalter W E 12947	Scott H M 14193	Sezemov M 13523	Shewell-Cooper 12078	Simon B G 11518
Schraeder 13423	Scott H T 13176	Shackleton O J 15762	W E	Simon M 11535
Schratt 15902	Scott M L 14082	Shackleton P 12649	Shewell-Cooper 12352	Simonian V H 10992
Schread J C 14672	Scottish Society 11017	Shafer T 10799	W E	Simonovich V 15372
Schrenk W G 16211	for Research in	Shaffer P A 18104	Shewell-Cooper 18153	Simons L R 14083
Schrevel M 12685	Plant-Breeding	Shaffner C S 13934	W E	Simpson I G 17585
Schrimpf K 16635	Scoville G P 17584	Shaffner C S 13939	Shibalov V I 12890	Simskiy A M 12821
Schroeter R 12019	Scribner B W 12999	Shaffner C S 14125	Shibanov A A 18066	Simvol P 16713
Schrumpf W E 16538	Scroggs C L 12530	Shaffner C S 14160	Shideler F 15426	Sincock R L 14676
Schubert A 14818	Scultetus H R 15183	Shah S M I 11703	Shields J W 15508	Sindicato 16374
Schubert F 12141	Seabra L S V de 13000	Shanks R E 10930	Shields L M 10982	Nacional de
Schubert G H 12779	Seale C C 11359	Shantz M 14301	Shikhova-Vodo- 12186	Frutos y
Schulte F 16427	Seals W F 16899	Shapir' M T 12350	vozova M V	Productos
Schulte- 13901	Seath D M 13404	Shapiro D K 12142	Shilkov A A 13178	Hortícolas
Sienbeck	Seaton S H 13283	Shapovalov 13989	Shillinger J E 13810	Singapore 10493
Schultz H 10796	Sechrist E L 14819	IA IA	Shimada K 12715	Botanic
Schultz H 13251	Sechrist E L 14820	Sharma R C 16532	Shimada K 12716	Gardens Dept
Schultze A B 13522	Sedlmayr E 12851	Sharma S L 15037	Shipiguzov S 17543	Singh C 13001
Schultze E 13881	Sedlmayr F 15903	Sharp E L 11925	Shippen J W 14826	Singh D B 17334
Schulz A 16636	Seeger K C 14181	Sharp F H 12024	Shirley R 13024	Singleton R E 14366
Schulz F 11702	Seeleman M 16075	Sharp L H 17817	Shirley R L 13613	Singsen E P 14084
Schulz M E 16156	Seelig R A 12023	Sharpe R H 12351	Shirreff Mrs 14333	Singsen E P 14085
Schulz W 16157	Seely C I 12079	Sharpless G R 14182	W H	Singsen E P 14086
Schulz W G 12572	Segal J 11018	Sharpnack D M 15726	Shishkin B K 18105	Sirri A 13691
Schulze 12020	Seger G 14821	Shatwell W E 12036	Shitt P G 11704	Sirri A 13692
Schulze B 10797	Seghetti L 14993	Shaver J M 10578	Shlykov M I 15425	Sirri A 15569
Schulze W 14416	Segni 17686	Shaw B T 11248	Shokal E C 16892	Sirri A 16160
Schumacher 12331	Seher O W 13610	Shaw F R 14924	Shomo H 14303	Sisler G P 15427
Schumacher 12739	Seibel L 13882	Shaw J C 13524	Short H E 17008	Sitch D A 13002
F X	Seibert R J 11774	Shaw J G 15046	Shorthorn Soci- 13425	Sitting M H 16638
Schumy V 17450	Seidel F 11144	Shaw M B 12999	ety of the	Sitwell Sir 11929
Schumy V 17583	Seiden R 15633	Shawver C B 14478	United Kingdom	
Schumy V 17880	Seifer A 17882	Shcherbakov S I 16637	of Gt Brit and	Sivkov S I 11110
Schumy V 17881	Seiferle E 13611	Shcherbina A K 14302	Ireland	Sivori E 11274
Schuphan W 17070	Seifert A 12573	Shcherbina P S 14825	Shrader H L 13990	Sjögard M 15830
Schupper 17152	Seilnacht W 15528	Shchurevskiy 13883	Shreider M 16318	Sjögren S 14928
J B F M	Sekera 12349	V E	Shrikhande J G 12182	Sjostrom L B 16473
Schürch A 16212	Sekera F 15389	Shea J P 17732	Shrode R R 13614	Skalka W 16639
Schurman D C 12368	Selishchev I 16143	Sheals J G 10698	Shteyman S I 13426	Skau E L 16884
Schütttauf A W 16054	Selivanov A I 15510	Shear S W 17942	Shul'ga I G 14701	Skau E L 16900
Schützhold G 11478	Sell C 13424	Sheehy E J 13177	Shull J H 14927	Skazkin F D 11152
Schwab G O 15433	Sell H M 10460	Shefchik B E 14510	Shultz F M 14365	Skinner F R 16640
Schwalm H W 10669	Sellards G 14574	Shefchik B E 14550	Shumakov E M 15217	Skinner H T 11153
Schwan H E 12036	Sellards G 16829	Sheftel' I M 10492	Shuman A C 15809	Skinner J L 14087
Schwarz F 14673	Sellers K 17731	Shelburne V B 16868	Shuman C B 15780	Skottsberg C 10523
Schwarz G 16158	Sellier R 15216	Shelor E 17023	Shuraev G 16312	Skottsberg C 10562
Schweigert B S 16731	Sellschopp A 17332	Shelton D C 14511	Shutova N N 15092	Skreden I 13525
Schweinfurth C 10561	Semenenko F 14822	Shemfakina A F 11543	Shvorneva A M 10834	Skräbin K I 13255
Schweisheimer 16674	Semenoff S D 16449	Shenefelt R D 14947	Siaens F 16428	Skurdal P 12852
W	Semenov V A 13612	Sheppard C C 16932	Sibbel B 15999	Skvornik P 15511
Schweizer C 16998	Semple G A 14823	Sheppard C C 16933	Sichler G 11015	Skvortsov I V 13179
Schweizer J 11553	Sen K R 16316	Sheppard C C 16973	Sidelkin N 17554	Slagle A B 16319
Schweizerische 17451	Sen S N 14899	Sheremet I A 11758	Sidel'nikov M V 17207	Slater H L 16320
Bankgesell- 18065	Sen S N 16793	Sherman L W 12690	Sidibe G 13874	Slatt V P 15624
Schweizerische 18065	Senchurov K T 12686	Sherrard D 11926	Sidorenko K 17333	Slatter W L 16130
Naturforschende 13175	Sens 15974	Sherstobitov S P 15568	Siebeneick H 10800	Slen S B 14418
Vereinigung für 13175	Sens 16159	Shetland Pony 13845	Siebeneick H 12026	Slinger S J 14988
Tierzucht 13609	Senthille F 13208	Stud-Book 13845	Siebeneick H 16401	Sloan G D 11660
Schweizerischen 13609	Sepervovich I 12648	Society	Siebenga J 17943	Sluka E I 14948
Vereinigung für 13609	Sérandour P 15779	Shettlesworth J 13846	Sieber J 12717	Sly K C 13323
Tierzucht 13609	Sérandour P 17883	Shevchenko S 15424	Siebert G 13253	Smale B 13847
Schwerdtfeger 14946	Serebrjakov P N 13252	Shevchenko S 15432	Siebert L 12718	Small A C 13693
F 14946	Sergeev M A 13294	Shewell-Cooper 10893	Siegfried A 12507	Small J A 10563
Schwickerath 10491	Sergeev P A 11479		Siemens R E 17944	Smeathers R 12915
M	Sers J 15330			Smeding P 17452
Schwing E A 10862	Sers J 15464			Smets E 12208



Item	Item	Item	Item	Item
Smirnov B M 12058	Societe d'entre- 11376	Spanish West 15332	Starr P B 16976	Stoddard E M 14601
Smirnov I S 11480	prises Com- 11377	Africa Secre- 15333	Starfsev N F 13903	Stoddard H L 14415
Smirnov V S 11588	merciales in 15407	tarfa General 12574	Station Agri- 12355	Stoddard L A 14380
Smirnova T I 11105	Egypte 11214	Spann J 16161	cole du Lac 11761	Stodel A M 13994
Smit B 14880	Serv Agrono- 15975	Sparapani K 16902	Alaotra 11762	Stoebbe E 13257
Smith A C 13738	mique 14304	Spears R G 13694	Statuti M 17586	Stoekeler J H 12652
Smith A C 13739	Sokolov K K 12606	Spee H 14473	Statuti M 17119	Stoekeler J H 12804
Smith A C 13740	Sokolov D S 11344	Speer V C 14475	Staub S 15475	Stoenner H G 13258
Smith A C 13741	Sokolov V S 12802	Speer V C 14513	Staumont A D 11932	Stokes H G 15058
Smith B F 15368	Solano R 15975	Speinle X 17071	Stautemas E 16429	Stoletov V N 18069
Smith C F 11705	Soljanik I 14304	Spennemann 13295	Stearns C M 11484	Stolfarenkov 14831
Smith C R 17242	Solberger W 16213	Spera L 12080	Stebbins G L Jr 15333	Stoltz E I 16008
Smith D 15186	Solodki M 11344	Sperry O E 14514	Stefanelli G 13428	Stonaker H H 13430
Smith D A 15810	Solov'ev E 12754	Spevak V 16980	Stegenga T 13428	Stoner W N 10867
Smith E F 13526	Solov'ev G M 12606	Spicknall N A 16375	Steel W O 14950	Stopford R R 15466
Smith E J 17989	Solov'ev N 16966	Spies A 12251	Steele D G 13848	Storm E 17457
Smith E L 13180	Solov'ev V J 15733	Spirhanzl J 17418	Steelquist K 17455	Storm E 17476
Smith E L 13181	Solowey M 13427	Spirhanzl J 13182	Stein E 17946	Stornes A 17336
Smith E Y 13991	Sommerkamp G 15369	Spitzer R R 13183	Steinbacher G 12509	Stotter S 17458
Smith F F 10839	Songcuan M S 18067	Spitzer R R 11759	Steinberg R A 11156	Stout E 12720
Smith F F 12345	Sonneborn T M 11775	Spoor P A 15512	Steiner 14344	Stover R H 10804
Smith F F 14677	Sorber D G 11345	Spradling S 10801	Steiner F D 12510	Stoward E G 14306
Smith F F 14881	Sorensen J E 11482	Sprague R 10802	Steinert E 15570	Stoy A 16642
Smith F G 16561	Sorgato I 15911	Sprague R 13811	Steinhause A 14679	Stoy O 11159
Smith F H 12219	Soria G E 16768	Sprehn 13912	Steiniger F 18068	Stransky E 13995
Smith F H 14462	Soria G S 16769	Spring J W Jr 11931	Steinkraus H W 12554	Stratveit M 11707
Smith G 16641	Sorlin A 11589	Springer U 12563	Stelfox A W 15094	Strebkova A 1651
Smith H G 13615	Sorm F 16873	Springer U 12575	Stelfox A W 15095	Strebkova A D 11652
Smith H H 12916	Sorokoumov 11480	Sproull R C 13003	Stenstrom M 16523	Street A G 15573
Smith H H 12919	Sosa-Bourdouil 11215	Spurling M B 12445	Stepanek J E 17120	Street A G 17687
Smith H J 14512	C 12803	Spurlock A H 17561	Stepanov A A 12659	Street A G 17698
Smith H V 16430	Sosnin L I 10983	Spurr C P 15905	Stephens D F 13520	Streever F 13742
Smith J R 16321	Souges R 10643	Squiers C D 14551	Stephenson A B 13993	Streever F 13743
Smith L A 15797	Soule M J Jr 10494	Srb A M 11155	Stephenson A B 14305	Streicher E 17459
Smith L J 15529	Sousa A T de 11706	Sreenivasaya M 15863	Stephenson E L 14515	Strell M 11160
Smith L P F 17884	Sousa J S I de 15904	Sreenivasaya M 12459	Stephenson J N 13004	Strenzke K 10566
Smith M A 10790	Sousa R de 16323	Sreeniwas L 10789	Stephenson R E 12253	Stricker M 14832
Smith M G 17168	South African 11776	Srinivas K V 13256	Stephenson R E 12356	Strickler M H 15097
Smith O 16450	Wool Board 12803	Sroka K 13902	Stere J B 15571	Strickler P E 15613
Smith O J 15093	Southeastern 10983	Strout D B 11760	Stere J B 15572	Strindlund G 12596
Smith O J 15368	Pecan 10643	Stadaune D van 12280	Sterges A J 12322	Ströbele F 17460
Smith P B 15331	Growers As- 11930	Stable S P 12930	Stern J R 14054	Strogonov B P 11161
Smith P C 13992	sociation 15734	Stacey W A 10495	Sterri M 17456	Strohacker K 17544
Smith R 16322	Southern Cali- 12143	Stach E 16962	Steur J P K 15812	Strömbeck P 14933
Smith R C 13469	fornia Camel- 17453	Stadelman W J 15057	van der 13528	Strombeck H 13039
Smith R M 14036	lia Society 15056	Stafford E M 12651	Stevens H W G 15465	Strong F C 10701
Smith R S 12222	Horticultural 15734	Stahl 16214	Stevens J 16524	Strong K G 17545
Smith S E 13527	Research 15056	Stahl H 17454	Stevens J W 10700	Strothe A 16643
Smith S E 14373	Committee 10894	Stahmann M A 10866	Stevens N E 10496	Stroyan H L G 15188
Smith W H 16522	Southey J F 15056	Stahmann M A 11082	Stevens O A 10700	Stroyan H L G 15189
Smith W L Jr 10835	T R E 15734	Stahr A 12027	Stevens R B 10700	Strunz H 17270
Smith W R 14594	Southworth H 12143	Stahr A 12252	Stevens W C 12917	Strunz H 17271
Smits C 12385	Souza A H de 17453	Staicu I 12354	Stevenson F J 11157	Stuart N W 10666
Smits G 18026	Souza Junior 16901	Stajduhar F 13038	Stevenson J A 10617	Stuart N W 11892
Smits J van 15602	J O de 15831	Stakman E C 10803	Stevenson J H F 13820	Stubbs J R 11485
Smock R M 11941	Soya Food Re- 13083	Staley C H 15809	Stevenson L T 13005	Stubenrauch 14416
Smolentsev G 12650	search Council 13083	Stallings J H 15187	Stevenson O R 14306	ME 17272
Smol'faninova 11154	Spain Instituto 13083	Stallwood B R 12719	Stevenson T M 16903	Stucky H R 17272
N K 11735	Nacional de 13083	Stamm E P 10564	Stevenson V W 11933	Stucky L 17211
Smol'faninova 11735	Estadística 14803	Standley P C 10565	Stewart A B 12357	Stull J W 16163
N K 17819	Spain Minis- 14803	Standley P C 18106	Stewart FR 13849	Stumper R 15098
Snedden J 17819	terio de Agri- 14803	Stangl P 13919	Stewart H A 14462	Stumpf H 16644
Sneek R L v d 15332	cultura 14803	Staniland L N 10894	Stewart H A 14552	Stumpf W 13057
Snider H J 11249	Serv de Capa- 14803	Stanley F E 15405	Stewart R D 13429	Sturdy M 18011
Snider H J 11342	citación y 14803	Stanton B F 17533	Stewart W M 12511	Sturgis L C 18119
Snider H J 11343	Propaganda 14803	Stanton B F 17534	Steyskal F 12028	Sturkie P D 14183
Snider H J 11481	Spain Minis- 14803	Stanton H R 11483	Steyskal G C 14994	Sturkie P D 14194
Snider H J 12353	terio de Agri- 14803	Stanton H R 16451	Stidston S T 14882	Styles W M 17141
Snodgrass R E 14583	cultura 14803	Stapley J H 10895	Stiebeling H K 17990	Subramanyam K 10984
Snow H L 12386	Serv de Capa- 14803	Stapley J H 14678	Stigloher M 15977	Subramanyam K 11162
Snyder E S 16929	citación y 14803	Starčević J 12873	Stiles W 11158	Subramoney N 12209
Snyder P G 14929	Propaganda 14803	Stark R H 14383	Stipanovic P N 10497	Suescun 12558
Snyder T E 15246	Spain Minis- 14803	Starke 16162	Stirling W F 11934	Gomez D 10498
Sociedad de 17945	terio de Agri- 14803	Starovol'skil- 13695	Stiver E N 11250	Suessenguth K 10498
Agricultores 17945	cultura 14803	Serbin A N 13695	Stockburger S 17820	Sugden G H 16645
Sociedad Nacio- 17885	Serv de Capa- 14803		Stocking H E 13696	Suita N 10985
nal Agraria 17885	citación y 14803		Stodart J A 17335	Sukhanova E 16714
	Propaganda 14803			Sukrutov N I 17153
	Spandikow W L 11940			



Item	Item	Item	Item	Item	Item	Item
Sullivan C R 15082	Tabain F 10986	Terrill S W 14500	Timirfazeva 11311	Traub R 15247		
Sullivan W 17563	Tablante N B 15735	Terrill S W 14516	K A	Traube L 13698		
Sullivan W 17564	Takhtadzhan 10569	Testa A 17947	Timm H 15399	Trawnaj F J 11635		
Sulzlee C 12815	Takle G G 12721	Testa J 12144	Timmer W J 17462	Treccani C P 11763		
Sumnerford W T 14630	Talbot M W 11387	Teston A 13431	Timmons F L 12084	Treibs A 11168		
Sumpf K C 14934	Talbur W F 16471	Tewes G 12576	Timmons J F 17688	Trelanzi C 13299		
Sun V G 11544	Talbur W F 16525	Thacher Mrs 11936	Timofeev B Z 13529	Trelogan H C 15736		
Sunada N 15398	Talce D 16009	A B	Tims E C 10808	Tremi 13617		
Sunbury B 12512	Tallarico G 10499	Thake L M 16675	Tindale G B 11662	Tremi A G 15063		
Sundararaj D D 10947	Tallarico G 12221	Thaler H 16904	Tindall C 15456	Trémolieres J 17957		
Sunde M L 14184	Tallarico G 16016	Thayer R H 14089	Tindall C 18155	Trémolieres J 17992		
Sundman J 13006	Tamblyn W J 13040	Thayer R H 14090	Tingey D C 12084	Trémolieres J 17993		
Supreme Com- 17461	Tamesis F 12844	Thelmer O F 16650	Tinney W A 12654	Trenchi H 14189		
mander for	Tamm A 16649	Theis E R 16831	Tipton B 17887	Trendel 16055		
the Allied	Tamm E 11163	Theisen E J 14307	Tirelli M 15060	Trendtel F 15982		
Powers	Tammes P M L 11661	Theiss J A 16832	Tisdale C R 12517	Trenorden L 11636		
Natural Re-	Tan L P 17121	Then L 16630	Tisdale W H 10809	Trentin A 12360		
sources Sect.	Tanganyika 12653	Théodorides J 14917	Tishkovich A 15513	Tressler D K 15813		
Suprunenko N D 12769	Forest Dept	Thiel J 10869	Titschack E 14951	Trevett M F 12361		
Supykin M I 14935	Tarasenko M T 11709	Thiel V 14937	Titscher O 15592	Trevitt J W 13745		
Surbeck K G 15658	Tarjon A C 10896	Thielecke 12805	Tjardenev A P 13297	Tribe D E 13187		
Surkov V 16164	Tarkov S N 15574	Thielemans G 17478	Tizio R 11167	Trigg R S 15758		
Surmorin 11708	Taskin K E 14836	Thielmann K 15191	Tkachenko M 15457	Trigg R S 15983		
Sutherland A E 13616	Tasseau 12971	Thiergart F 10500	Tkachev P A 15429	Trigo M Y 15676		
Sutherland L 17977	Tatarinova N K 12447	Thierling H 14938	Todorovic R 15390	Trimberger G W 13569		
Sutherland L 18114	Tatting B 14528	Thierling 13697	Toepfer 13774	Trimble K T 14561		
Sutherland L 18115	Tatum E L 11019	Thiery J P 13261	Togliani F 10747	Trinidad Eco- 17463		
Suttner 17337	Taubitz K 14186	Thiery P 12358	Tokmakov P 17548	nomics Com- 17463		
Suttner 17338	Taufel 15757	Thiulin G 16076	Tolner J 11490	mittee		
Sutton G L 16646	Tawney J J 15334	Thizeau P 10807	Tomertop G 11997	Trisvatskiy L A 16652		
Sutton G L 16647	Taylor C 15428	Thoman M E 13184	Tomey A 13996	Tritscher S 17339		
Sutton T S 14242	Taylor C E 12972	Thomann W 15980	Tomey A 14092	Trofimova N 16078		
Sutton T S 14243	Taylor E H 16830	Thomann W 16077	Tomey A 15575	Troitskiy I 15514		
Sutton T S 14244	Taylor G G 10619	Thomas B 13185	Tomhave A E 14078	Troll W 10987		
Suvorov N S 11347	Taylor H 17546	Thomas B H 14517	Tomhave A E 14079	Trommer 13699		
Suzdal'tsev I 17320	Taylor H M 17009	Thomas C A 10702	Tomhave A E 14181	Tropin I V 15064		
Suzuki C 11519	Taylor L 13850	Thomas H R 10870	Tomlinson G H 13007	Tros'ko I K 12806		
Svechnikov I V 11486	Taylor L 13851	Thomas J 11937	Tomlinson 14883	Trotter I P 12518		
Sveholm B 11545	Taylor L 14155	Thomas J A 18137	Tomlinson W E 15061	Trousdell K B 12807		
Svensden S 16680	Taylor L W 14187	Thomas M D 11164	W E Jr	Fruett V S 13700		
Svenska Insti- 15933	Taylor M H 16748	Thomas R G 12515	Tomlinson W E 15061	Trufanov A V 18028		
tutet för Kul-	Taylor M H 17886	Thomas R J 16326	Jr	Trullinger R W 18156		
turellt Utbyte	Taylor T R 17274	Thomas R U 17991	Tomlinson 15062	Trullsson G 14454		
Med Utlandet	Taylor W C 17169	Thompson C K 15455	W E Jr 14519	Truog E 12542		
Stockholm	Taylor W R 10594	Thompson D S 14440	Tomme L 13262	Trüstedt H 12845		
Svenska Mejeri- 15978	Taylor T R 17273	Thompson D S 14441	Tomme M F 13298	Tryon M 17045		
ernas Riks-	Taylor W R 10594	Thompson D W 17822	Tomme M F 16749	fSaprun A A 13255		
förening Stock-	Taylor W R 10594	Thompson E G 11349	Tompkins C M 10810	fSchermak 16771		
holm	Tchan Y T 10788	Thompson F 18154	Tompkins C M 10863	fSchermak- 10988		
Svenson J 11348	Teare D W 15625	Thompson F C 11165	Tompkins C M 15055	Woess E		
Svensson G 16715	Tegtmeter A 11935	Thompson G Jr 17143	Tonder A J van 12449	fSel'niker I U L 11095		
Svensson K A 15479	Telford E 11487	Thompson J 12531	Tonsley C C 14840	fSeng R H 17078		
Svetlova N A 13139	Temor W 15763	Thompson J A 15175	Topolnik E 14188	fSigikal A 12450		
Svetozarova V V 10951	Tempany Sir H 12513	Thompson J B 14089	Torbeev Z S 15458	fSikoto I A 17340		
Svinth F F 13259	Tempany Sir 12254	Thompson W L 14868	Torgeson O W 12919	fSvetkov I P 14842		
Swallen J R 10567	H A	Thompson W L 15059	Torgeson O W 12920	fSvetkov M A 12233		
Swallen J R 10568	Temper J E 14002	Thompson W L 15059	Tornede 13432	fSvetkova K P 14843		
Sweden Lant- 15646	Temple V 15190	Thompson W R 11489	Torre J C de la 15676	fSvetkova K P 14844		
bruksstyrelsen	Temple V 15218	Thoms E 14308	Forrens Pastor 15371	Tublash H 16966		
Swellengrebel 15009	Templeman 12081	Thomsen H 15981	A	Tucker J 14377		
N H	W G	Thomsen J 13186	Torres J di P 14683	Tucker L N 16763		
Swenson H F 15979	Templeman 12081	Thomsen L C 16100	Torres de la 14093	Tucker L N 16764		
Swift R W 14394	Templeton G S 14351	Thomsen A G 14681	Puerta C	Tucker L N 16800		
Swift & Co 16716	Tendam L 14334	Thomson A V 18027	Torres Filho A 17615	Tucker J G 17949		
Agricultural	Tenembaum J L 15335	Thomson B F 11166	Torriceili Dfaz 12770	Tulintsev V G 11939		
Research Dept	Tenembaum J L 15335	Thomson L B 12516	E	Tundermann C 14533		
Swim H C 11590	Tennessee Dept 14680	Thomson R M 16651	Torrini T 17948	Tupper H 14368		
Swim H C 11940	of Public Health	Thonet H M 12744	Tory K S 11491	Turc L 12722		
Swingle R U 10806	Industrial Hy- 15896	Thorner C 14309	Toth L A 13775	Turček J 10811		
Swingle R U 10868	giene Serv	Thornton B J 12082	Tourje E C 10871	Turgay N 16327		
Swink E T 15370	Tenney R I 15896	Thorp F Jr 14463	Tourje E C 11938	Turk K L 13527		
Switzerland 17477	Tercero R A 17821	Thorp F Jr 14498	Touron E A 15116	Turk K L 13530		
Eldgenössisches	Terekhov V 11554	Thorp F Jr 14498	Tovar Gómez J 17823	Turk K L 13531		
Statistisches	Terent'ev S M 13296	Thorp F Jr 14498	Tower B A 17011	Turk K L 13532		
Amt	Tereshchenko 10880	Thung T H 10856	Towner E B 14841	Turnbull W H 14845		
Sword J 16648	E F	Thurston J M 12083	Trabauer F 11492	Turner C W 13597		
Sylvain R 12822	Termohlen W D 17010	Thyssen P 10584	Tracey M V 11216	Turner C W 14158		
Sylvest J H 11520	Terpstra A 11488	Ticó L 12359	Tracey M V 17134	Turner H J 15192		
Syme P S 16325	Terrill C E 13291	Tiemann H D 12918	Tracy P H 16148	Turner H S 15336		
Symon J A 12446	Terrill C E 14367	Tiersma P 16010	Tracy P H 16165	Turner K B 14310		
Szasz 17154	Terrill M 16717	Tijsterman F 14839	Tracy P H 16166	Turner K B 15199		
Sayfres B 14185	Terrill S W 14480	Tikhomirov A 14091	Tracy T H 13741	Turner M 17994		
	Terrill S W 14481	Tilt J 11350	Trägårdh I 14984	Turner W P Jr 16473		



	Item		Item		Item		Item		Item
Turvey K	11493	Urner F E	17012	Venkataratnam	11169	Virginia Dept of Health	18075	Waechter R P	13266
Tutton W R	15814	Uruguay Direccion de Agronomia	10680	Venkatarayan S V	10815	Vishnufakov N K	13623	Wagner E	15067
Tyler W E	16833	Uruguay Instituto Nacional de Colonizacion	17607	Ventz	12891	Visocchi V	14442	Wagner M W	16079
Tyler W J	13316	Ushakov V A	13434	Verband Ostschweizerischer Landwirtschaftlicher Genossenschaften	17890	Visser J	17469	Wahlberg H E	17590
Tyrer T G	13533	Ushakova E I	12029	Verbeek W A	13535	Vité J P	14690	Wahlin B	14849
Tyrer T G	15984	Ushatinskaja R S	14953	Verbruggen A	10704	Vitkevich V I	11252	Walbel C W	10878
Tyszynski H	17950	Usuelli F	13188	Vercesi D R	12503	Vitol E	15372	Walte W C	15742
Tyvand J A	17531	Usuelli F	13534	Vereshchagina V I	13622	Vittum M T	12086	Wakefield W E	12943
Tyvand J A	17532	Uter	13746	Vergezov G	16773	Vittum M T	12452	Wakely S L	15196
Tyvand J A	17533	Utkin L M	11217	Vergheze J	13058	Vlasfuk P A	11219	Wakely S	15197
Ubaldi L	13433	Uvarova L	16168	Verhaar G	12109	Vlasfuk P A	12536	Walker A	10570
Uggen O	12687	Vague J	17997	Versissimo S	15043	Vlasfuk P A	12579	Walker A	13046
Uhlirs J	17341	Vahl E von	16526	Verma G S	10705	Vliet M van der	11171	Walker J	11943
Ulchanco L B	15065	Valner M	15515	Vermell C	14886	Vliet N van	15338	Walker J	16330
Ulberg L C	14345	Vaitsman J	13619	Vermorel V	18074	Vochelle J	12363	Walker J C	10706
Ulrich A	15672	Vaitsman J	13984	Verna L C	13264	Voelker D E	13701	Walker K M	12453
Ulrich K	17122	Vaitsman J	14553	Vernon L P	11183	Voelskow P	12904	Walker L H	16525
Ulrich-Bieber A	12655	Vaitsman J	14687	Vernon L P	11218	Voelskow P	13044	Walker R H	14554
Umbrecht J	16167	Vaitsman J	18073	Verschuren H A M	11940	Voevoda D K	12792	Walker W F	12387
Underberg	13618	Vale M M do	11020	Verschuyt H	17953	Vogel M	13045	Walkup H G	14217
G K L		Valentine G E	15337	Vervelste G J	11170	Vogt	16452	Walkup H G	16918
Underdahl N R	14558	Valentine G E	16431	Vervee G J	14094	Vogt E	15908	Wall G M	11594
Underhill G W	14885	Valentini M	17248	Vervenne B	15576	Vogt W	16377	Wall M E	14079
Underkofler L A	14506	Valentino C	11637	Vervenne B	15576	Vohs R L	14473	Wall M F	11495
Union of International Associations		Valenza F	14688	Vesal I	15985	Vofink O M	13702	Walla H	13301
Union of South Africa Dept of Native Affairs		Valenzuela P	18107	Vesely L	16056	Voisin A	11494	Walla M	15743
United Nations Dept of Social Affairs		Val'fanov D G	15400	Vetter J	11710	Volanti U	13189	Wallace L C	13008
Population Div		Vallance L G	12085	Viado G B	14689	Vol'kenshtein V M	17125	Wallace M C	13997
United Nations Statistical Off		Vallejos N	10813	Vial E E	15248	Volkov I A	12519	Wallace N	16331
U S Bur of Foreign and Domestic Commerce		Valletta A	15193	Vial J M	13904	Volkov I A	12519	Wallace R B	14316
U S Congress House Committee on Interstate and Foreign Commerce		Valletta A	15194	Vianello G	14191	Vollmer E	17968	Wallace R W	13703
U S Dept of Commerce		Valois H	13165	Vickery J R	16805	Vollstadt M	13791	Waller R	17213
U S Dept of State		Van Arsdell W J	13620	Vidart D	17722	Volodarskii N I	11027	Waller W E	15145
U S Economic Cooperation Admin		Van Blair M A	17998	Viegas Aurelio J L	14192	Volokitin S N	14095	Walmsley L A	11944
U S Economic Cooperation Admin		Van Camp J L	12597	Vieira F M	17897	Voloshin N	17342	Walmsley M H	11945
Div of Statistics and Reports		Van Cleave O E	13435	Viennot-Bourgin G	10816	Vol'pin E	16834	Walpole L J	11496
U S Economic Survey Mission to the Philippines		Van Cleve R	17825	Vierdich W	11378	Volta E dalla	17827	Walravens V	11712
U S Golf Association		Van Clute J	12831	Vieri F	17689	Volwiler E H	15659	Walrecht B J	14995
U S Institute of Inter-American Affairs		Van Demark N L	13621	Viets F G Jr	12362	Von Loesecke H	15798	Walsh M J	17999
Food Supply Div		Van der Merwe J A	17587	Viets K O	14887	Voor M van der	16676	Walsh T J	10503
U S Livestock Sanitary Association		Van der Vyver B J	14520	Viette P	15195	Vorob'ev S A	12832	Walston H	13704
Committee on Brucellosis		Van Der Wath J G	14369	Vigil C C	11351	Vorob'ev V	17013	Walter H H	13821
U S Patent Off		Van Doren C A	12166	Villa Hernandez C F	11592	Voronov I	15459	Walton J	17343
U S Patent Off		Van Dyke A W	16432	Vil'chinskii A D	13905	Voronov P	15500	Walton L	17151
U S Public Health Service		Vane w M F	12736	Vil'fams V R	11251	Voronov S	16835	Wampler C W	17014
U S Tennessee Valley Authority		Van Horn J L	14395	Villafanski M L	17124	Vorotilov M	13450	Wandel G	11021
Uota M	11941	Van Lennep D	13915	Village Welfare Association	17479	Voss R	18007	Wandel G	12030
Upp C W	14249	Van Ness G	14190	Villanueva I E	12324	Voukassovitch P	14954	Wanderstock J J	15819
Upp C W	17011	Van Poucke R F	14521	Villegas V	12578	Vranj M	16873	Wang C M	18162
Urion E	15906	Van Rensburg S W J	13436	Villegas de la Vega R	12808	Vries D M de	11424	Wang H	13624
		Vardehaug A	16719	Villeneuve P	13265	Vries H de	16527	Wangerlin A	13190
		Varma C P	10501	Villeneuve P	13300	Vries V de	10502	Wanstall G	17891
		Varma P M	10841	Villforth F	15907	Vsesoiuznaia Kommunisticheskaia Partia (Bol'shevikov)	11352	Ward A L	13191
		Varney H R	15740	Villiers A	15066	Moskovskii Komitet		Ward A L	13191
		Varona J	12451	Villiers G	15782	Vuillaume R	16724	Ward G M	16215
		Vasudeva R S	10814	Villiers P C de	17549	Vukolov A	15434	Ward R L	13625
		Vatteroni F	11764	Vilmorin R de	10817	Vuorjoki Y	12598	Wardlaw C W	10818
		Vaughan L M	17826	Vincent D H	15267	Vuuren J P J	12580	Ware H H	15783
		Vaz D F	15936	Vincent S	11593	Vyshinskiy A M	12364	Ware J H	13555
		Vazquez E A	17123	Vine V	16118	Waagstroem	12365	Ware R R	17551
		Vechsler M J	12555	Vining K	15741	Waagstroem A	15530	Warhadpande U R	13017
		Vecht J van der	14631	Vink J de	11940	Wachs E F	14113	Warmke H E	11497
		Vedder A	16654	Vinogradova T V	14947	Waddams A L	15818	Warnecke G	15099
		Veihmeyer F J	12409	Vinot G	15516	Wade G C	11172	Warner R M	10699
		Velisseyre R	16121	Vloux M	16057	Wade W	17550	Warner R M	16528
		Veldink J G	17589			Wadey H J	14848	Warnick A C	14557
		Veldzicht J van	14946			Wadlow T J	10818	Waroux J	16656
		Velho H de L A	16655			Wadlow T J	16779	Warren B C S	15198
		Velho H de L A	16907					Warren D C	13918
		Veltman B J	16469					Warren D C	13978
		Venekamp J T N	16010					Warren G L	17892
								Warren R	15537
								Warren R	15564
								Warren S	18000
								Warwick E J	13615
								Washington State College	13705
								Dept of Dairy Husbandry	



	Item		Item		Item		Item		Item
Washington State University Institute of Forest Products Dept of Conservation and Development	12940	Wennberg T	10596	Wickenden L	16530	Wilson G B	11175	Woodruff N	15069
Wasmuth G	18120	Wennberg T	10597	Widder F	10507	Wilson J L	13706	Woodul P A	17833
Wasserman D	16395	Wenzl R	10708	Widen V	14951	Wilson L T	13707	Woodward R R	13441
Waterman H I	16858	Wenzl H	10709	Widler W	16378	Wilson W O	14198	Woodward R R	13629
Waterman H I	16859	Werneburg	15339	Widit R A de	15342	Wilster G H	16172	Wool Bur	16332
Waterman H I	16908	Werner M	14318	Widutis F	17894	Wimhurst C G	13792	Wool Bur	16333
Waterman W G	10571	Werner T H	13009	Wiedorn K	17954	Wimmer E	10574	Wool Bur	16334
Waters H T	18120	Wernicke E	13907	Wiegand E H	15820	Wimmer F X	16752	Wooldridge W E	14617
Waters N F	14193	Werren F	13074	Wiegand K H	16658	Wind C	17592	Woollam G	17024
Waterston D I	16750	Werren F	13075	Wiegiers H L	13932	Wind E J	12599	Woolley F K	16653
Watkins T C	14691	West J L	13488	Wiegiers H L	13999	Winfield L G	14335	Woonink B	18005
Watson C J	14555	West J W	14096	Wielen H G W	17830	Wing J M	13537	Worden A N	14100
Watson D	17015	West R	17017	van der		Wingard S B	14199	Work R A	12455
Watson D J	11173	West T F	14693	Wielen H G W	17831	Wingate H L	16461	Worswick G D	12367
Watson D S	18108	West W J	15340	van der		Wingate H T	15269	Worth C B	15251
Watson P J	12313	Westenhoff	17690	Wiersma O	16531	Winge O	13747	Worthington E B	17474
Watt W E	12892	Westenskow E	14319	Wiese A C	14069	Wingerd W	16972	Worthington J	14326
Watts A B	14522	Western Cana-	11595	Wiese A W	14405	Winkler	17895	Wortman L S	12521
Watts A B	14556	dian Society		Wiesmann R	14908	Winlund E S	12965	Wöstmann B	16207
Watts R M	13437	of Horticul-		Wiggins E L	14557	Winn H H	14323	Wouters A	16335
Waugh J G	14850	ture		Wight J	11596	Winnigstedt	13708	Wright A C	16659
Waugh R K	13153	Western Weed	12088	Wijers	13438	Winnigstedt R	13302	Wright C T	12456
Wauthy R	12454	Conference		Wilboux R	16910	Winnigstedt R	13303	Wright D E	16559
Wawrik F	10595	Westgaard P	13525	Wilbur J W	13512	Winslow J T	16011	Wright F E	18121
Weayer L E	13998	Westinghouse	15628	Wilckens H A	12724	Winter A R	14242	Wright F E	18122
Webb B H	16169	Electric &		Wilcock B	14321	Winter A R	14243	Wright G P	10897
Weber A F	13626	Manufacturing		Wilcox J	15249	Winter A R	14244	Wright J W	11948
Weber C R	11522	Co		Wilcox P A	15564	Winter A R	17020	Wright J W	16336
Weber C R	11523	Rural Electri-		Wilcox R A	14054	Winter A R	17021	Wright L E	12368
Weber F	14996	fication Dept		Wildeman E de	10990	Winter F	15744	Wright M L	14204
Weber G	15899	Weston W A R D	10710	Wilder O H M	14523	Winter G	11176	Wright N	13630
Weber H	10989	Weston	10711	Wilder O H M	14524	Winter S R	15373	Wright N	13631
Weber N A	14584	W A R D		Wilharm G	15865	Winterberg S H	11117	Wright P H	11715
Weeks S B	17344	Westphal W	13911	Wilhelm L A	17019	Winterberg S H	12322	Wright P H	14853
Wegelt W	12846	Westra T L	17214	Wilhelmy O Jr	18001	Winters H F	10822	Wright R	12369
Wegemann W	17591	Wettinger	14694	Wiljies H G de	12145	Winters S R	15986	Wu S H	13442
Wegener J B	16529	Wetzel R	13627	Wilkins H F	13628	Winton B	14200	Wulff H D	10991
Weger N	12366	Weybrew J A	12219	Wilkins S J	14000	Wintrobe M M	14528	Wunderl A	15467
Wegge W	17016	Weybrew J A	14552	Wilkinson B R	11638	Wirleitner F	14325	Wurster	12269
Wegscheider A	13267	Whatley J A	14455	Wilkinson B R	11714	Wirth	16539	Wurz K	17215
Wehr J	17828	Whatley J A	14522	Wilkinson G	12921	Wirth	17472	Wykes G R	11177
Wehrmann O	13192	Whatley J A Jr	14447	Wilkinson R	12146	Wirth H	16720	Wyman D	11178
Weideman E	15577	Wheat J D	14505	Willett M D J	13439	Wise G H	14462	Wyman D	11949
Weimer J L	10872	Wheeler R S	14140	Willett E L	13321	Wise S G A	16836	Wynne A J	17594
Weindling R	10707	Wheeler R S	14195	Willey N B	13440	Wishart J	11254	Xabregas J	12147
Weir W C	14396	Wheeler S S	13430	Willey N B	13504	Wister J C	11947	Xabregas J L	16907
Weisse F	11253	Whelan W J	11201	Williams A H	11307	Wit H C D de	18159	Xandri	16533
Weishaar L J	16433	Wherry E T	10572	Williams C	14133	Wit W de	16404	Tagüena J M	
Weiss F	16657	Whitaker W M	13615	Williams C	14197	Wit W de	16404	Yacowitz H	14101
Weiss F J	17126	White C	13952	Williams C M	14997	Witk I	15909	Yang H P	17834
Weiss H	13193	White C M	15008	Williams D H	14561	Witk I	15909	Yapp W W	13443
Weiss H S	14169	White F H	10656	Williams E G	12187	Witt M	17593	Yasuzumi G	14998
Weiss H S	14183	White M	17018	Williams H H	14467	Wittk E A	17832	Yasuzumi G	14999
Weiss H S	14194	White V	13268	Williams H R	11499	Wittich W	12267	Yasuzumi G	15000
Weiss J N	17829	White V	14320	Williams I L	14168	Wittig W L	17046	Yasuzumi G	15001
Weiss M G	11498	White W R	16909	Williams J B	13499	Wittlin F	16837	Yates S D	13632
Weiss M G	11523	Whitehair C K	13460	Williams J B	13536	Wittmann H	13709	Yates W W	15002
Weiss R S	14617	Whitehair C K	14392	Williams L F	11523	Wittwer S H	16532	Yavorsky J M	12966
Weitz J	17616	Whitehair C K	14397	Williams L O	10565	Witz W M	14099	Yazicloglu T	16911
Welch R F	14317	Whitehair C K	14488	Williams L O	10573	Witzel S A	15531	Yazicloglu T	16912
Weldon V B	12219	Whitehead M D	14556	Williams R H	10904	Witzgail	12656	Yeager A F	11597
Weller L E	10460	Whitehead P L	10820	Williams R N	14164	Wohlgemuth E	14852	Yeaman A F	13633
Wellington K	11765	Whitehill A R	17893	Williams T	17471	Wolcott G N	15068	Yohe R	11354
Wellington W G	15199	Whiteman J V	14066	Williams T	17471	Wolcott G N	15200	Yohe R	12270
Wellmann G	14692	Whitford L A	14455	Williamson A P	14107	Wolcott G N	15250	Yohe R S	12370
Wells J S	12581	Whiting F	10598	Williamson C O	13908	Wolf A F	16435	Yohe R S	13444
Wells J S	17155	Whiting F	14418	Williamson T W	15268	Wolf J P M	12537	Yohe R S	15784
Wells R W	14592	Whitlock R	16001	Willis G A	14457	van der		Yohe R S	15785
Wells R W	16063	Whitlock R	12266	Willis J H	10508	Wolff F W	16838	Yoshida Y	14998
Wels	11713	Whitlock R	13853	Willis P S	15660	Wolff O	15683	Yoshida Y	15001
Welten M	10504	Whitlock R	15341	Willkie H F	17898	Wolff W C	16753	Yost T F	12091
Welten M	10505	Whitlock R	15430	Willmann C	14988	Wolk J A	17022	Youden G H	15201
Welz O	16170	Whittier R J	12964	Willner G	17700	Wolter H	13885	Youden G H	15202
Wendt P F	16799	Whittleston W G	15346	Wills W J	16751	Wolterink L F	14203	Young C M	18001
Wene G P	14986	Wible R C	12771	Willson A E	11174	Wolters F	18002	Young D W	11179
		Wichers J W	10506	Willson F S	13347	Wood C A	16058	Young E C	15745
		Wichmann	10821	Willson F S	14395	Wood H E	12089		
		Wichmann	12031	Wilshaw R G H	11353	Wood J B	17473		
		Wichmann	14097	Wilson A	11946	Wood R D	10931		
		Wichmann	14098	Wilson D B	15009	Wood W E	12268		
		Wickard C R	15629	Wilson E	14322	Woodhouse W W	12219		
		Wickard C R	15642	Wilson E D	18021	Woodroof J G	17023		
		Wickard C R	17470	Wilson G	15476	Woodrow A W	15460		



Item	Item	Item	Item	Item
Young G A Jr 14558	Zander E 14855	Zentralverband 14352	Zhivotkov Kh 13954	Zimmermann E 16436
Young H A 16337	Zanetti A 13634	der Kleintier- 13634	Zholnirenko 13538	Zink F W 10873
Young M T 14695	Zanker S 16721	züchter E V 16721	A M 15431	Zocher A 17156
Young N 11355	Zanotti L 11663	Fachabteilung 11663	Zhuk IA 15432	Zogg H 10826
Young P A 10823	Zapfi 17171	Kaninchen- 17171	Zhuk IA 17345	Zoller 17552
Youngken H W 10992	Recordati A 11022	züchter 11022	Zhukovskii N 14856	Zollikofer 16174
Yuill W J 13445	Zaruballo T IA 16081	Zetti J 14371	Zhuravlev A A 14857	Zollikofer E 13711
Yuill W J 13446	Zatta P L 10870	Zetty M 13806	Zhuravlev A A 17128	Zorn 13635
Yule G U 18163	Zaumeyer W J 11106	Zhanderkin A I 14372	Zhyvribiński 10618	Zubarev A 11500
Zabelin P 15343	Zauralov O A 13793	Zhavoronkov 11716	IU M 11180	Zubarev N G 15518
Zacha V 10824	Zavodchikov P A 16834	P A 11717	Ziegler A W 16173	Zubrilin A A 13195
Zahear S H 16877	Zavrazhnov A 16116	Zhavoronkov 17047	Ziegler H 10575	Zucchini M 16379
Zahn H 16338	Zee C 13447	Zhdanova L P 15431	Ziesenhenn R 13801	Zucchini M 16660
Zahn H 16339	Zeeman L C 11255	Zhegalov I 14327	Zieske R 17129	Zuckerman A 16869
Zaichikov N E 14854	Zelner W 15461	Zheltyi A V 17127	Zil'berman I I 13710	Zuckerman S 15661
Zak B 10825	Zelenev A A 14370	Zhetvin D P 12032	Zimmer F 12745	Zúniga H 14696
Zakariassen B M 16080	Zelenski G G 14449	Zhiglinskai E A 14575	Zimmerle H 15987	Zunino H 14955
Zakharov A 15374	Zeller J H 13194	Zhirnov I 14456	Zimmerman C 12053	Zureck F 16059
Zalenski O V 10509	Zelter S Z 11151	Zhirnov I E 16785	Zimmerman P W 18003	Zürn F 11501
Zaladnova A P 11766	Zentmyer G A	Zhislin I 16839	Zimmerman W	Zürn F 11502
				Zurth 14001
				Zwemmer J J 12582













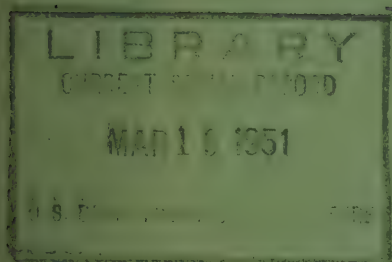


71  
12  
00

# BIBLIOGRAPHY OF AGRICULTURE



U.S. DEPARTMENT  
OF AGRICULTURE  
LIBRARY





The subject index for volume 15 of the Bibliography of Agriculture will appear as number 12 of volume 15, the issue of December 1951.

Abbreviations used in this publication are from the United States Department of Agriculture Bibliographical Bulletin 12, List of Serials Currently Received in the Library of the United States Department of Agriculture, November 1, 1949. June 1950.

Call numbers following the citations are those of the United States Department of Agriculture Library. Please use them when requesting publications on loan from the Library.

Except for printed publications of the Department of Agriculture which are usually available in limited supply for free distribution, the publications listed herein are not available for free distribution from the Department. However, photoprint or microfilm copies of any publication listed may be obtained from the Library. Copying charges for each periodical article or book are:

**MICROFILMS:**

\$1.00 for each 50 pages or fraction thereof from a single article or book.

**PHOTOPRINTS:**

\$1.00 for each 10 pages or fraction thereof from a single article or book.

**ALL CHARGES ARE CASH WITH ORDER.** (Only Federal agencies are exempt.)

Enclose payment in cash, library coupon, check, or money order drawn to the Treasurer of the United States.

**LIBRARY COUPONS**—United States Department of Agriculture Library coupons valued at \$1.00 each may be ordered in any quantity.

The printing of this publication has been approved by the Director of the Bureau of the Budget. (Jan. 11, 1950).



UNITED STATES DEPARTMENT OF AGRICULTURE

LIBRARY

BIBLIOGRAPHY OF AGRICULTURE

Vol. 15

March 1951  
Items 18164-25999

No. 3

CONTENTS

	Item		Item		Item
Plant Science	18164-19935	Soil Management	20061	Seasoning, Conditioning and	
Systematic and Geographic		Soil Fertility	20090	Finishing	20861
Botany	18249	Tilth and Tillage	20224	Wood Preservation and Damage	
Spermatophytes	18258	Drainage, Irrigation, Water			20874
Pteridophytes	18342	Supply, etc.	20245	Forest Products	20900
Bryophytes	18346	Erosion and Control	20321	Lumber and Rough Products	
Algae	18349	Sanitation	20371		20906
Fungi and Lichens	18361	Materials for Soil Improvement		Building Construction	20912
Pathology	18383		20376	Veneers, Plywood and	
Fungus Diseases	18468	Primary Materials	20383	Adhesives	20915
Bacterial Diseases	18558	Secondary and Minor Element		Furniture	20937
Virus Diseases	18571	Materials	20389	Containers	20941
Nematodes	18606	Mixed Fertilizers and Fertilizer		Pulp and Paper	20942
Ecology	18615	Technology	20390	Chemical Products and	
Morphology, Anatomy, and		Fertilizer Statistics	20400	Distillates	20965
Cytology	18639	Mineral Soil Amendments	20412	Naval Stores	20967
Genetics	18685	Manures and Composts	20413	Other Forest Products	20979
Physiology	18740	Forestry	20438-21031	Wood Technology	21000
Biochemistry	18917	General	20438	Properties and Structure	21015
Field Crops	18946	Education	20463	Animal Industry	21032-22273
Cereals	18968	Policies, Programs, Administra-		Breeds and Breeding	21032
Fiber Crops	19043	tion	20471	Feeds and Feeding	21040
Forage and Grasses	19060	Legislation and Taxation	20538	Veterinary Medicine	21104
Oil Crops	19195	Description and Resources	20544	Miscellaneous	21243
Sugar Crops	19210	Individual Genera	20565	Cattle	21263
Tobacco	19231	Forest Management and Finance		Breeds and Breeding	21263
Horticultural Crops	19249		20592	Feeds and Feeding	21356
Fruits	19287	Farm Woodlands	20616	Veterinary Medicine	21416
Citrus and Subtropical	19339	Mensuration	20625	Miscellaneous	21556
Deciduous	19363	Aerial Surveying and Photog-		Dogs and Cats	21614
Small	19400	raphy	20639	Breeds and Breeding	21614
Nuts	19468	Silviculture	20644	Veterinary Medicine	21626
Shade Trees and Ornamental		Silvicultural Practices	20680	Miscellaneous	21689
Plants	19475	Seeding and Planting	20700	Fur Animals - Pen Raised	21699
Vegetables	19730	Forest Protection and Damage		Breeds and Breeding	21699
Weeds and Poisonous Plants	19828		20729	Feeds and Feeding	21705
Miscellaneous	19883	Fire	20734	Veterinary Medicine	21710
Soils and Fertilizers	19936-20437	Forest Influences	20753	Miscellaneous	21718
Soil Science	19936	Miscellaneous Forest Uses	20764	Horses and Mules	21726
Soil Physics	19942	Forest Industries	20773	Breeds and Breeding	21726
Soil Chemistry	19961	Lumbering	20798	Veterinary Medicine	21759
Soil Biology	20004	Lumbering Equipment	20802	Miscellaneous	21808
Soil-Plant-Animal Relation-		Logging	20824	Laboratory Animals, Small	21823
ships	20033	Sawmills	20838	Veterinary Medicine	21823
Soil Genesis, Formation, Classi-		Processing and Woodworking		Miscellaneous	21826
fication, and Mapping	20045		20855		

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.  
\$6.00 per year, domestic; \$8.00 per year, foreign. Single copies vary in price.



	Item		Item		Item
Poultry	21827	Walls and Fences	23315	Seeds	24827
Breeds and Breeding	21827	Utilities	23321	Sugar and Sirups	24850
Feeds and Feeding	21863	Electricity and Electrification		Tobacco	24928
Veterinary Medicine	21900		23321	Miscellaneous	24960
Miscellaneous	21991	Heating, Lighting, and Radiation		Agricultural Economics and Rural	
Rabbits	22063		23348	Sociology	24976-25780
Breeds and Breeding	22063	Power Plants, Motors and		Agricultural Finance	24985
Feeds and Feeding	22077	Engines	23357	Credit	24998
Veterinary Medicine	22079	Sewage and Waste Disposal	23362	Income	25042
Miscellaneous	22091	Telephones	23363	Inflation	25047
Sheep and Goats	22100	Water Supply	23365	Insurance	25049
Breeds and Breeding	22100	Agricultural Products: Processing,		Taxation	25079
Feeds and Feeding	22129	Distribution, and Statistics	23373-	Agricultural Labor and Wages	
Veterinary Medicine	22139		24975		25118
Miscellaneous	22171	Analysis and Composition	23390	Agriculture - Situation, Policies,	
Swine	22186	Consumption, etc.	23430	and Programs	25159
Breeds and Breeding	22186	Distribution, etc.	23437	Subsidies	25291
Feeds and Feeding	22198	Grading, etc.	23463	Cost and Standard of Living	25296
Veterinary Medicine	22225	Packing and Packaging	23474	Farm Management and Land	
Miscellaneous	22261	Prices, etc.	23486	Economics	25297
Entomology	22274-22998	Processing and Storage	23508	Bookkeeping and Records	25385
General - Economic	22291	Statistics	23559	Costs and Returns	25389
Apiculture and Apis Mellifera		Beverages and Condiments	23581	Land Settlement and Colonization	
	22441	Dairy Products	23730		25428
Arachnida, etc.	22539	Analysis and Composition	23772	Land Tenure	25443
Coleoptera	22594	Consumption, etc.	23811	Land Utilization	25487
Diptera	22693	Distribution, etc.	23818	Land Values, etc.	25512
Culicidae	22766	Grading, etc.	23865	Population	25528
Hemiptera	22786	Packing and Packaging	23892	Rural Social Organization	25534
Hymenoptera	22831	Prices, etc.	23895	Human Ecology	25542
Lepidoptera	22871	Processing and Storage	23906	Institutions	25550
Orthoptera	22943	Statistics	23951	Leadership	25666
Sericulture and the Silkworm	22970	Feed and Forage Crops	23955	Rural Organizations and	
Smaller Orders	22976	Fibers and Textiles	23996	Movements	25667
Agricultural Engineering	22999-	Fruits, Vegetables, and Nuts	24162	Rural Social Psychology	25718
	23372	Analysis and Composition	24203	Trade, Foreign and International	
General and Miscellaneous	22999	Consumption, etc.	24217		25724
Machines and Equipment	23014	Distribution, etc.	24219	Food and Human Nutrition	25781-
Animal Husbandry	23071	Grading, etc.	24256		25859
Cultivation and Tillage	23097	Packing and Packaging	24270	Food Habits	25828
Fertilizer and Seed Distributors		Prices, etc.	24279	Nutritive and Vitamin Content	
	23113	Processing and Storage	24284		25830
Harvesting	23119	Statistics	24349	Miscellaneous	25860-25999
Land Clearing Equipment	23137	Grain and Grain Products	24360	History and Biography	25903
Processing Equipment Used on		Honey and Beeswax	24479	Home Management	25938
the Farm	23143	Livestock and Livestock Products		International Relations	25947
Repair, Maintenance, and Con-			24486	Meteorology	25955
struction	23163	Analysis and Composition	24557	Research	25965
Spraying and Dusting	23169	Consumption, etc.	24561	Statistics	25991
Vehicles	23179	Distribution, etc.	24565		
Structures and Rural Housing	23224	Grading, etc.	24587	U. S. D. A. Publications	p. 167
Animal Shelters and Service		Packing and Packaging	24612	State Agr. Expt. Sta. Publications	
Buildings	23230	Prices, etc.	24613		p. 172
Farmhouses and Farmsteads		Processing and Storage	24616	State Agr. Ext. Serv. Publications	
	23280	Statistics	24641		p. 176
Greenhouses and Plant Service		Oils and Oilseeds	24647	Food and Agr. Organ. of the U. N.	
Buildings	23289	Poultry and Poultry Products			p. 178
Materials and Methods	23297		24738		
Storage Structures	23301	Rubber and Rubber Substitutes		AUTHOR INDEX	p. 179
			24799		

The printing of this publication has been approved by the Director of the Bureau of the Budget. (Jan. 11, 1950)



## PLANT SCIENCE

## GENERAL

- 18164 ADAMS, G., and WHICHER, O. The living plant and the science of physical and ethereal spaces; a study of the metamorphosis of plants in the light of modern geometry and morphology. Clent, Worcester-shire, Goethean Science Foundation, 1949. 77 p. 463 Adl
- 18165 ANSEMBOURG, V. D', and PIERROT, E. L'herborisation de la Société à travers le Jurassique Belge le 7 août 1949. Soc. Roy. de Bot. de Belg. B. 82: 263-267. Mar. 1950. 451 B41B
- 18166 ARCHER, W. A. New plastic aid in mounting herbarium specimens. *Rhodora* 52:298-299. Dec. 1950. 450 R34
- 18167 ARMSTRONG, J. M. Self-sterility studies in alfalfa. *Alfalfa Impr. Conf. Rpt.* 12:65. 1950. 60.9 AL2
- 18168 ARNOLD, MRS. H. G. Seeds for England. *Gard. Club Amer. B.* 38(6):53-55. Nov. 1950. 90.32 G16
- 18169 BAL, S. N. Glory of ancient India in the domain of herbal science. *Sci. Club J.* 3(4):8-11. May 1950 475 Sci29
- 18170 BARRETT, C. Australia's Upas Tree; strange story of the Pisonia. *Austral. To-day* 46:49, 51, 53. 1951. 280.8 Au72
- 18171 BAXTER, R. W. *Peltastrobos reedae*: a new sphenopsid cone from the Pennsylvanian of Indiana. *Bot. Gaz.* 112:174-182. Ref. Dec. 1950. 450 B652
- 18172 BECKER, J. Sur l'existence et la limite de deux domaines paléosilviques postglaciaires, septentrional et méridional, dans les Alpes françaises. *Paris. Acad. des Sci. Compt. Rend.* 231:1331-1333. Dec. 6, 1950. 505 P21
- 18173 BERGHEN, C. VANDEN. L'herborisation du 19 juin 1949 à Neerpelt. *Soc. Roy. de Bot. de Belg. B.* 82: 209-210. Mar. 1950. 451 B41B
- 18174 BOUDY, P. L'origine des arbres et des plantes cultivées en Afrique du Nord. *Chambre Franç. d'Agr. des Régions de Rabat, du Rharb et d'Ouezzan. B.* 16:2247-2255. July 1950. 24 C352
- 18175 BRANNAN, C. F. Investigaciones sobre nuevas drogas en agricultura. *Agrario* 15(417):7-8, 12, 20. Oct. 1950. 9.3 Ag85
- Antibiotics.
- 18176 BRITISH COLOMBIA. UNIVERSITY. BOTANIC GARDEN. *Index seminum.* 1949. Vancouver, B.C., 1950. 8 p. 63.01 B77
- 18177 BROCKMANN, H., and BAUER, K. Rhodomycin, ein rotes antibiotikum aus Actinomyceten. *Naturwissenschaften* 37:492-493. Nov. 1, 1950. 474 N213
- 18178 BROOKLYN BOTANIC GARDEN. 1949-1950 annual report. *Brooklyn*, 1950. p. 45-59. 451 B79A
- 18179 BUSH, R. Sexed trees grow on magnetic lines. *Grower [London]* 34:1314-1315. Dec. 23, 1950. 286.83 M34
- 18180 CASEY, J. By devious ways in nature's plan seed are among greatest travelers. *Sowest. Crop & Stock* 4(12):16, 75. Dec. 1950. 6 So8942
- 18181 COOKSON, I. C., and DUIGAN, S. L. Fossil Banksiaeae from Yallourn, Victoria, with notes on the morphology and anatomy of living species. *Austral. J. Sci. Res. Ser. B: Biol. Sci.* 3:133-165. Ref. May 1950. 442.8 Au72
- 18182 COOKSON, I. C. Fossil pollen grains of pro-teaceous type from Tertiary deposits in Australia. *Austral. J. Sci. Res. Ser. B: Biol. Sci.* 3:166-177. Ref. May 1950. 442.8 Au72
- 18183 CRANE, M. B. The origin and improvement of cultivated plants. II. *Roy. Hort. Soc. J.* 75:465-474. Ref. Dec. 1950. 84 L84J
- 18184 DOLIANITI, E. Contribution to the Pliocene flora of Fonseca, Minas Gerais. II. *Luhea roxoi* n. sp. (In Portuguese.) *Acad. Bras. de Cien. An.* 22:303-306. Sept. 30, 1950. 516 R473A
- 18185 DOROFEEV, P. I. Fossil spruce, *Picea orientalis* (L.) Link. in the South of Northern Ural. (In Russian.) *Bot. Zhur.* 35:274-283. Ref. May/June 1950. 451 R923
- 18186 EPHRUSSI, B., and HOTTINGUER, H. Direct demonstration of the mutagenic action of eulagine on baker's yeast. *Nature [London]* 166:956. Dec. 2, 1950. 472 N21
- 18187 EYRES, H. T. The significance of botanical names. *Timber News* 58:452-454. Nov. 1950. 99.81 T482
- 18188 FARMAR, H. The "Orto Botanico." Padua. *Roy. Hort. Soc. J.* 75:475-478. Dec. 1950. 84 L84J
- 19189 FOX, H. M. Plants that figure in Christmas tradition and decoration. *N. Y. Bot. Gard. J.* 51:289-294, 297-298. Dec. 1950. 451 N48J
- 19190 GILBERT-CARTER, H. Glossary of the British flora. Cambridge, U. Press, 1950. 78 p. 452.12 G37
- 19191 GJAEREVOLL, O. The vegetation of south-facing rocks on the island Gudfjelløya, Røyrvik in Nam-dalen. (In Norwegian.) *Blyttia* 8:115-124. Ref. 1950. 450 B622
- English summary.
- 19192 GRAUMANN, H. O. Performance of "C" clones and their polycross progeny. *Alfalfa Impr. Conf. Rpt.* 12:57-58. 1950. 60.9 AL2
- 19193 GUNDERSEN, A. Families of dicotyledons. Waltham, Mass., Chronica Botanica, 1950. 237 p. (A new Ser. Plant Sci. Books, v. 25) 452.3 G952
- 19194 HANSON, C. H. Alfalfa breeding procedure under investigation in North Carolina. *Alfalfa Impr. Conf. Rpt.* 12:66-67. 1950. 60.9 AL2
- 19195 HARRIS, T. M. Notes on the Jurassic flora of Yorkshire, 46-48. *Ann. & Mag. Nat. Hist. (ser. 12)* 3:1001-1030. Ref. Dec. 1950. 410 An77
- 19196 HATA, T., and others. Isolation of a new anti-biotic substance "luteomycin" from a strain of strepto-mycetes. *Kitasato Arch. Expt. Med.* 22:229-242. Ref. Dec. 1949. 448.8 K64
- T. Higuchi, Y. Sano, and K. Sawachika, joint authors.
- 19197 HEINRICHS, D. H. Breeding for creeping rooted alfalfa. *Alfalfa Impr. Conf. Rpt.* 12:59-61. 1950. 60.9 AL2
- 19198 HEYWOOD, V. H. Plant collecting in the mountains of Andalusia. II. *Roy. Hort. Soc. J.* 75:478-485. Dec. 1950. 84 L84J
- 19199 HIRATA, K. Saibai-sha no tame no shokubutsu seiri [Physiological botany for the cultivator]. Tokyo, Asakura Shoten, 1950. 158 p. 463.3 H61
- 19200 HÖEG, O. A. A children's game with magical purpose: eating flowers of *Anemone hepatica* and *A. nemorosa*. (In Norwegian.) *Blyttia* 8:126-128. 1950. 450 B622
- English summary.
- 19201 HOSKINS, B. The selection of subject headings in large botanical libraries. *Spec. Libr.* 41:359-361. Dec. 1950. 243.8 Sp3
- 19202 HUBER, B., and JAZEWITSCH, W. VON. Aus der praxis der jahrring-analyse. I-II. *Allg. Forstz.* 5: 443-444, 527-529. Oct. 18-Dec. 6, 1950. 99.8 AL52
- 19203 HYDE, H. P. T. Tree trunks preserved in a volcanic flow in the Northern Cameroons. *Amer. J. Sci.* 249:72-77. Jan. 1951. 470 Am34
- 19204 HYLANDER, N. International rules of scientific botanical nomenclature; a new proposal. *Uppsala?* 1950. 32 p. 452.04 H98
- 19205 KADNIKOV, K. N. Ideas of I. V. Michurin in the school. (In Russian.) In Shibanov, A. A., comp. *Sbornik statei po voprosam Michurinskoi biologii*, p. 193-201. Moskva, Ministerstvo Prosveshcheniia RSFSR, 1950. 442 Sh6S
- Chiefly in teaching of botany.
- 19206 KATO, H. Studies on the antibiotic substances from Actinomycetes. I. On the isolation of active strains and substances from strain No. 212. (In Japanese.) *J. Antibiotics* 3:579-581. Aug. 1950. 396.8 J824
- English summary.
- 19207 KORDE, K. B. Algae remains from the Cambrian period in Kazakhstan. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:809-812. Aug. 1, 1950. 511 P444A
- 19208 LAVRENKO, E. M., and SOKOLOV, S. Ia. Academician Vladimir Nikolaevich Sukachev [1880-] (On the seventieth anniversary of his birth). (In Russian.) *Bot. Zhur.* 35:318-328. May/June 1950. 451 R923
- His botanical contributions.
- 19209 LEWIS, J. C. Annotated bibliography of sub-tilin; assay microbiological production, purification and chemistry, biological activity, and related compounds. *U. S. Bur. Agr. & Indus. Chem. AIC-168, rev.*, 15 p. Oct. 1950. 1.932 A2Ag82
- 19210 LITTLEFIELD, E. W. Cones for Christmas; seed factories in September, decorations in December. *N. Y. State Conserv.* 5(3):2-3. Dec. 1950/Jan. 1951. 279.8 N48
- Anatomy and physiology of evergreen cones.
- 19211 MACBRIDE, J. F. Natural landscapes of the United States. Chicago Nat. Hist. Mus. Pop. Ser. Bot. 27, 47 p. 1950. 500 C432L



- 18212 MCDONOUGH, E. S., BELL, L., and ARNOLD, G. A water-labile fungistatic extractive characterizing living trees. *Nature* [London] 166:1034. Dec.16,1950. 472 N21
- 18213 MCINTEER, B. B. Tree-ring study in Kentucky. II. *Castanea* 15:160-172. Dec.1950. 450 So82
- 18214 MAMAY, S. H., and ANDREWS, H. N., JR. A contribution to our knowledge of the anatomy of Botryopteris. *Torrey Bot. Club. B.* 77:462-494. Ref. Nov./Dec. 1950. 451 T63B
- 18215 MIKI, S., and HIKITA, S. Probable chromosome number of fossil *Sequoia* and *Metasequoia* found in Japan. *Science* 113(2923):3-4. Jan.5,1951. 470 Sci2
- 18216 OBERDORF, F. Aus der arbeit eines neuzeitlichen instituts für pflanzenzüchtung. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:71-72. Oct.1950. 18 D4822
- 18217 ÖBLOM, K. Effects of nutrition of *Marasmius urens* upon the production of antibiotic substances. *Nature* [London] 166:950-951. Dec.2,1950. 472 N21
- 18218 OKAMI, Y. Studies on the characters of antibiotic *Streptomyces*. IV. On the strains which produce streptothricin-group substances. (In Japanese.) *J. Antibiotics* 3:582-595. Aug.1950. 396.8 J824  
English summary.
- 18219 OLBERG, G. Pflanzen mit gebrochenem lebenswillen. *Orion* 5:721-723. Sept.15,1950. 474 Or4
- 18220 PARKER, M. A South African botanic garden. *Gard. illus.* 67:302-303. Dec.1950. 80 G169  
Kirstenbosch.
- 18221 PIERROT, E. Les premiers botanistes du Jura. *Soc. Roy. de Bot. de Belg. B.* 82:221-224. Mar.1950. 451 B41B
- 18222 POWERS, L. Gene analysis of weight per locule in tomato hybrids. *Bot. Gaz.* 112:163-174. Ref. Dec.1950. 450 B652
- 18223 PYNAERT, L. L'influence des jardins sur les études de botanique. II. *B. Hort. (n.s.)* 5:279-282. Oct.1,1950. 80 B873
- 18224 RADFORTH, N. W., and WOODS, A. B. An analysis of *Cladophlebis* (*Klukia*) *dunkeri* Schimper, a Mesozoic fern from western Canada. *Canad. J. Res. Sect. C, Bot. Sci.* 28:780-787. Dec.1950. 470 C16C
- 18225 REMACLE, G. L'herborisation de la Société aux marais de Rabais et au Pré Jacquet à Virton, le 8 août 1949. *Soc. Roy. de Bot. de Belg. B.* 82:269-270. Mar.1950. 451 B41B
- 18226 ROLLINS, R. C. Deep-freezing flowers for laboratory instruction in systematic botany. *Rhodora* 52:289-297. Dec.1950. 450 R34
- 18227 SAVICH-LFUBITSKAIA, L. I., and ABRAMOVA, A. L. Mosses from an ancient tomb in mountainous Altai. (In Russian.) *Priroda* 39(7):64-65. July 1950. 410 P933
- 18228 SCHMIDT, M. Die bedeutung Mitschurins für die obstzüchtung und den deutschen obstbau. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:181-183. (To be cont.) Dec.1950. 18 D4822
- 18229 SCHNEIDER, G. Das gedankengut Mitschurins und seine anwendung in der Deutschen Demokratischen Republik. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:14-16. Sept.1950. 18 D4822
- 18230 SHEFTEL', I. M. Nikitskiĭ [Botanic] Garden—green treasure house of U.S.S.R. (In Russian.) *Priroda* 39(8):90-95. Aug.1950. 410 P933
- 18231 SOLTIS, F. Der pontische garten. *Gärt.-Kur.* 5(17):4-5. Sept.1,1950. 80 G1942  
Vegetation in Austria.
- 18232 SOUTHWELL, V. G. Love 'em or not, berries are bafflers. *Gard. & Gard. Chron.* 54(7):73-74. Oct. 1950. 80 G1632  
Terminology.
- 18233 STANFORD, E. H. Report of committee on nomenclature of genetic characters and factors in alfalfa. *Alfalfa Impr. Conf. Rpt.* 12:15-16. 1950. 60.9 AL2
- 18234 STANŮKOVICH, K. V. Rastitel'nyi pokrov Vostochnogo Pamira [Vegetative cover of Eastern Pamir]. *Moskva, Gos. Izd-vo Geogr. Lit-ry*, 1949. 158 p. (Zapiski Vsesoyuznogo Geograficheskogo Obshchestva. Novaya Seriya. t. 10) 460.16 St2
- 18235 STOPP, F. Der Botanische Garten zu Schellerhau und der naturschutzgedanke. *Nat. u. Nahr.* 4(15/16): 8-11. Aug.1950. 80 N218
- 18236 SZAFRAN, B. *Trachycystis szaferi*, a new species of moss from the Miocene of Poland. *Soc. Bot. Poloniae. Acta* (1949-50)20:247-250. 1950. 451 So16
- 18237 TANAKA, H., and NISHIMURA, K. Studies on the antibiotic substance from *Actinomyces*. V. (In Japanese.) *J. Antibiotics* 3:605-606. Aug.1950. 396.8 J824
- 18238 TROUPIN, G. La terminologie des types en botanique systématique. *Soc. Roy. de Bot. de Belg. B.* 82:57-66. Ref. Oct.1949. 451 B41B
- 18239 TSITSIN, N. V. The Principal Botanical Garden of the Academy of Sciences of U.S.S.R. (In Russian.) *Akad. Nauk SSSR. Vest.* 20(8):43-48. Aug. 1950. 511 Ak14V
- 18240 TSUDA, Y. Studies on the antibiotic substance produced by an *Aspergillus* isolated from the soil. (In Japanese.) *J. Antibiotics* 3:605. Aug.1950. 396.8 J824
- 18241 TSUKAMURA, M. Studies on the antibiotic substances produced by spore-forming bacteria. IV. An antibiotic from bacterial bodies of O-3 strain—a strain of the *Bacillus subtilis*-group. (In Japanese.) *J. Antibiotics* 3: 569-572. Aug.1950. 396.8 J824  
English summary.
- 18242 TUNISIA. SERV. BOTANIQUE ET AGRONOMIQUE. Index seminum. *Tunisia. Serv. Bot. et Agron. B.* 17,12 p. Jan.1950. 108 T832B
- 18243 TUNISIA. SERV. BOTANIQUE ET AGRONOMIQUE. Rapport sur les travaux de recherche effectués en 1949. *Tunisia. Serv. Bot. et Agron. B.* 19,88 p. Feb.1950. 108 T832B
- 18244 VLADIMIROVICH, V. P. Pollen and spores from the carboniferous strata of Kazakhstan Region. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:365-367. Sept.11, 1950. 511 P444A
- 18245 WANDEL, G. Einleitung zum versuch der schaffung mehrjähriger getreidearten. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:83-84. Oct.1950. 18 D4822  
Soviet research in genetics.
- 18246 WERNER, R. G. Etude du pouvoir bactériostatique des champignons marocains. *Soc. des Sci. Nat. du Maroc. B.* 28:4-5. 1948, pub.1950. 515 So1
- 18247 WIERINGA, K. T. A method for isolating and counting pectolytic microbes. *Cong. Internatl. des Indus. Agr. [Rapports]* 1948(2):213-215. 1950. 388 C765
- 18248 WILKINS, W. H., and REES, J. R. Production of antibacterial metabolism solutions by fungi. *Nature* [London] 166:949-950. Dec.2,1950. 472 N21

## SYSTEMATIC AND GEOGRAPHIC BOTANY

## General

- 18249 CULSHAW, J. C. Some West Bengal plants. *Bombay Nat. Hist. Soc. J.* 49:188-196. Aug.1950. 513 B63
- 18250 DUNCAN, W. H. Preliminary reports on the flora of Georgia. 4. Notes on the distribution of flowering plants including species new to the State [Georgia]. *Castanea* 15:145-159. Ref. Dec.1950. 450 So82
- 18251 KORNAS, J. List of some interesting synanthropic plants collected in the environs of Kraków and Miechów. (In Polish.) *Soc. Bot. Poloniae Acta* (1949-50)20:119-124. 1950. 451 So16  
English summary.
- 18252 PAREDES C., A. Especies industriales de la flora ecuatorialiana. *B. de Inform. Cient. Nac.* 3:164-176. July/Aug.1950. 475 B633
- 18253 POLIAKOV, P. P. On the flora of the Abies forests of Kazakhstan Altai. (In Russian.) *Bot. Zhur.* 35: 301-303. Ref. May/June 1950. 451 R923
- 18254 SAUVAGE, C. Les récoltes botaniques de Cheikh Abidine dans le sud marocain. *Soc. des Sci. Nat. du Maroc. B.* 28:72-73. 1948, pub.1950. 515 So1
- 18255 STEVENS, O. A. Handbook of North Dakota plants. Fargo, North Dakota Agricultural College, 1950. 324 p. 455.76 St4
- 18256 TAYLOR, W. R. Plants of Bikini and other northern Marshall Islands. *Ann Arbor, U. Michigan Press*, 1950. 227 p. (U. Michigan Studies. Sci. Ser. v. 18) 460.23 T21
- 18257 VINDT, J., and SAUVAGE, C. Additions au catalogue des plantes du Maroc. 2-3. *Soc. des Sci. Nat. du Maroc. B.* 28:172-196. 1948, pub.1950. 515 So1

## Spermatophytes

- 18258 ALLRED, B. W. Southwestern trees and shrubs; broom snakeweed. *Sheep & Goat Raiser* 31(3):64-65. Dec.1950. 45.8 Sh3



- 18259 BEETLE, A. A., comp. Plant name indexes. 1-3. Journal of Range Management. Wyo. Range Mangt. 30,9 p. Dec.1950. 60.19 W99
- 18260 BEIJERINCK, W., and PELKWIJK, A. J. TER. The most important brambles [Rubus] in the Drenthe area. II. (In Dutch.) Levende Nat. 53:191-196. Oct.1950. 410 L57
- 18261 BENSON, L. The cacti of Arizona. Ed. 2. Tucson, U. Arizona Press, 1950. 134 p. 452.35 B44
- 18262 BOR, N. L. A new Brachiaria from Burma. Kew B. 1950:232. 451 K51B
- 18263 BOR, N. L. A new Eulalia from Burma. Kew B. 1950:258. 451 K51B
- 18264 BOR, N. L. Two new species of Ischaemum. Kew B. 1950:187-188. 451 K51B  
I. lacei and I. duthei.
- 18265 BOR, N. L. Two new species of Ischaemum from Bombay. Bombay Nat. Hist. Soc. J. 49:165-168. Aug.1950. 513 B63  
I. bombaiense and I. santapani.
- 18266 BOROS, A. Dendrologische notizen. II. Beiträge zur Kenntnis der ungarischen Sorbus-formen. (In Hungarian.) Agrtudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem. 13:153-158. 1949. 80 B85  
German summary.
- 18267 BRENNAN, J. P. M. More new plants from the Idaner Hills, Nigeria. Kew B. 1950:227-232. 451 K51B  
Includes new species in: Ipomoea and Eriocaulon.
- 18268 BRENNAN, J. P. M. Plants of the Cambridge Expedition, 1947-1948. I. Kew B. 1950:211-226. 451 K51B  
Includes new species in: Dissotis and Phyllanthus.
- 18269 BRYAN, C. S. Goodyera tessellata in Rhode Island. Rhodora 52:279-280. Nov.1950. 450 R34
- 18270 BURKILL, I. H. A new Dioscorea from the Celebes. Kew B. 1950:259-260. 451 K51B
- 18271 BURTT, B. L. Koeligia islandica in Britain. Kew B. 1950:266. 451 K51B
- 18272 CASPARI, C. Ophrys - blumen oder insekten? Orion 5:757-764. Oct.1950. 474 Or4
- 18273 CATER, R. C. - Tree trails and hobbies. Garden City, N. Y., Doubleday, 1950. 324 p. 99.3 C28
- 18274 CHEESMAN, E. E. Classification of the bananas. III. Kew B. 1950:151-155. 451 K51B
- 18275 CORY, V. L. A new violet [Viola reidiae] endemic to southeastern Texas. Field & Lab. 18:155. Oct.1950. 470 F46
- 18276 COSTA, J. G. DA. The genus Semele in Madeira (appendix). (In Portuguese.) Brotéria 19:176-179. Nov.1950. 410 B79C
- 18277 CUATRECASAS, J. New Proteaceae from Colombia. Lloydia 13:198-204. Sept.1950. 442.8 L77  
Includes new species in: Euplassa, Panopsis, and Roupala.
- 18278 DIMITRI, M. J. Las Magnoliaceae de los géneros Liriodendron, Magnolia y Michelia cultivadas en la Argentina. Argentina. Dir. Gen. de Invest. Agr. Rev. de Invest. Agr. 3:381-395. Ref. Oct.1949. 9 R329
- 18279 DOMAC, R. Ranunculus ophioglossifolius Vill. in Croatian district. Hrv. Zagorje. (In Croatian.) Zagreb. U. Bot. Inst. Izv. 12/13:265. 1949. 451 Z1  
English summary.
- 18280 DOMAC, R. Notes floristiques de l'herbier de Dr. M. Tomić. (In Croatian.) Zagreb. U. Bot. Inst. Izv. 12/13:270-271. 1949. 451 Z1  
French summary.
- Ribes petraeum, Lathyrus alpestris, and Valeriana dioica in Croatia.
- 18281 DUVIGNEAUD, P. Les "Berlinia" des forêts claires soudano-zambéziennes. Inst. Roy. Colon. Belge. B. des Séances 21:427-438. 1950. 504 B836
- 18282 EWAN, J. New records of neotropical Gentianaceae. Biol. Soc. Wash. Proc. 63:163-166. Dec.29,1950. 500 W72  
Includes a new species in Macrocarpaea.
- 18283 FASSEAUX, W. Les Tragus adventices en Belgique. Soc. Roy. de Bot. de Belg. B. 82:67-70. Oct. Ref. 1949. 451 B41B
- 18284 FASSEAUX, W. La tribu des Festuceae et ses affinités avec les tribus voisines. Soc. Roy. de Bot. de Belg. B. 82:307-314. Mar.1950. 451 B41B
- 18285 FENAROLI, L. Le palme e i loro usi [Palms and their utilization]. Roma, Società Anonima Editrice Dante Alighieri, 1949. 142 p. (I Libri dell'Agricoltore. No. 26) 452.3 F35
- 18286 FERNALD, M. L. Arnica mollis and A. lan- ceolata. Rhodora 52:284-288. Dec.1950. 450 R34
- 18287 FOX, W. B., GODFREY, R. K., and BLOM- QUIST, H. L. Notes on distribution of North Carolina plants. II. Rhodora 52:253-271. Ref. Nov.1950. 450 R34
- 18288 GLEASON, H. A. Observations on tropical American Melastomes. Phytologia 3:345-360. Dec.1950. 450 P63  
Includes new species in Leandra, Calyptrilla, Miconia, Graffenrieda, Topobea, Blakea, and Clidemia.
- 18289 GODFREY, R. K. Studies in the Compositae of North Carolina. III. Elisha Mitchell Sci. Soc. J. 66:186-194. Ref. Dec.1950. 500 EL4
- 18290 HARTLEY, W. The global distribution of tribes of the Gramineae in relation to historical and environ- mental factors. Austral. J. Agr. Res. 1:355-373. Ref. Oct.1950. 23 Au783
- 18291 HAWKES, A. D. Major genera of cultivated orchids. VIII. Amer. Orchid Soc. B. 19:679-680. Dec.1950. 80 Am329
- 18292 HAWKES, A. D. Orchid notes. 1. A new species of Gomesa R. Brown from Colombia. Lloydia 13:227-228. Sept.1950. 442.8 L77
- 18293 HENNEN, J. F. The true clovers (Trifolium) of Texas. Field & Lab. 18:159-164. Oct.1950. 470 F46
- 18294 HERNÁNDEZ XOLOCOTZI, E. El genero Tripsacum en Mexico. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:29-36. Nov.1950. 8 M577Fm
- 18295 HOLM, R. W. The American species of Sar- costemma R. Br. (Asclepiadaceae). Mo. Bot. Gard. Ann. 37:477-560. Nov.1950. 451 M69
- 18296 HOOGENRAAD, H. R. Stinking wall rocket (Diplotaxis muralis (L.) D.C. syn. Sisymbrium murale L.). (In Dutch.) Natura 47:206-209. Nov.1950. 410 N2192
- 18297 HORVATÍČ, S. Paspalum distichum L. ssp. paspalodes (Michx.) Thell im überschwemmungsgebiet der unteren Neretva (Narenta) in Jugoslawien. (In Croatian.) Zagreb. U. Bot. Inst. Izv. 12/13:231-238. Ref. 1949. 451 Z1  
German summary.
- 18298 HOWELL, J. T. Plant types in the herbarium of the California Academy of Sciences. V. Leguminosae (cont.). Wasmann J. Biol. 8:251-254. Summer 1950. 442.8 W28
- 18299 HULTÉN, E. Atlas över växternas utbredning i Norden [Atlas of the distribution of vascular plants in N. W. Europe]. Stockholm, Generalstabens Litografiska Anstalts Förlag, 1950. 631 p. 459 H87  
English summary.
- 18300 KÁRPÁTI, Z. Die Variabilität der heimischen Cornus-arten. (In Hungarian.) Agrtudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem. 13:114-126. Ref. 1949. 80 B85  
German summary.
- 18301 KEAY, R. W. J. Notes on tropical West African species of Combretum. I. Kew B. 1950:245-254. 451 K51B
- 18302 KEAY, R. W. J. The systematic position of suffrutescent species of Combretum Loeffl. Kew B. 1950: 255-257. 451 K51B
- 18303 KRUG, C. A., MENDES, J. E. T., and CAR- VALHO, A. Taxonomy of Coffea arabica L. II. Coffea arabica L. var caturra and its form xanthocarpa. (In Portuguese.) Bragantia 9:157-163. Sept./Dec.1949. 102.5 B73Tb  
English summary.
- 18304 LAVALRÉE, A. Les Amsinckia adventices en Belgique. Soc. Roy. de Bot. de Belg. B. 82:303-306. Mar. 1950. 451 B41B
- 18305 LAVALRÉE, A. Les Pulmonaria de Belgique. Soc. Roy. de Bot. de Belg. B. 82:97-102. Oct.1949. 451 B41B
- 18306 LÉONARD, J., and LATOUR, J. M. Les espèces congolaises du genre Schefflerodendron (Papilio- naceae). Soc. Roy. de Bot. de Belg. B. 82:295-301. Mar. 1950. 451 B41B
- 18307 LÉONARD, J. Une nouvelle et curieuse famille pour la flore phanérogamique du Congo Belge: les Ancistrocladaceae. Soc. Roy. de Bot. de Belg. B. 82:27-40. Oct.1949. 451 B41B
- 18308 LÉONARD, J., and HEBBELYNCK, M. F. Sur deux espèces résineuses congolaises. Inst. Roy. Colon. Belge. B. des Séances 21:420-426. 1950. 504 B836  
Tessmannia anomala flamigni and Cleistanthus cauda- tus.



- 18309 MAGUIRE, B. On the application of the name *Arnica lessingii* (Torrey & Gray) Greene. *Rhodora* 52: 281-283. Dec.1950. 450 R34
- 18310 MICZYŃSKI, K. The sand oat (*Avena strigosa* Schreb.), a disappearing crop plant in the Nowy Targ district. (In Polish.) *Soc. Bot. Poloniae. Acta* (1949-50)20: 155-168. Ref. 1950. 451 Sol6  
English summary.
- 18311 MILANO, V. A. Las especies del genero "Ligustrum" cultivadas en la Argentina. *Argentina. Dir. Gen. de Invest. Agr. Rev. de Invest. Agr.* 3:353-380. Ref. Oct.1949. 9 R329
- 18312 MILNE-REDHEAD, E. Notes on African Marantaceae. I. Kew B. 1950:157-163. 451 K51B  
Includes *Hypselodelphys* n.g.
- 18313 MOLDENKE, H. N. Additional notes on the Eriocaulaceae. V. *Phytologia* 3:382-400. Dec.1950. 450 P563
- 18314 MOLDENKE, H. N. The known geographic distribution of the members of the Verbenaceae, Avicenniaceae, Stilbaceae, Symphoremaceae, and Eriocaulaceae. Supplement 2. *Rev. Sudamer. de Bot.* 8:165-174. Sept. 1950. 450 R3242
- 18315 MOLDENKE, H. N. Verbenaceous novelties, mostly from Madagascar, and miscellaneous taxonomic notes. *Lloydia* 13:205-226. Sept.1950. 442.8 L77  
New species in: *Callicarpa*, *Clerodendrum*, *Lippia*, *Paepalanthus*, *Teijsmanniodendron*, and *Verbena*.
- 18316 MONACHINO, J. V. The fruit character of *Strophanthus*, section *Synclinocarpus*. *Phytologia* 3:366-373. Dec.1950. 450 P563
- 18317 MUDALIAR, C. R. A new variety of *Cucurbita maxima*. *Bombay Nat. Hist. Soc. J.* 49:242-243. Aug. 1950. 513 B63
- 18318 NELMES, E. *Bulbostylis trifida* (Nees) Nelm. Kew B. 1950:209-210. 451 K51B
- 18319 NELMES, E. A new *Carex* from the Malay Peninsula. Kew B. 1950:209. 451 K51B
- 18320 NELMES, E. Notes on Cyperaceae. XXIV. New and other interesting Malaysian Carices, mostly from the Leiden and Buitenzorg Herbaria. Kew B. 1950:189-208. 451 K51B
- 18321 PENZES, A. Data to the description of wild pear (*Pyrus piraster-nivalis*). (In Hungarian.) *Agrtudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem.* 13:66-74. 1949. 80 B85  
English summary.
- 18322 PÉNZES, A. The wild varieties of *Berberis vulgaris* in the vicinity of Budapest. (In Hungarian.) *Agrtudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem.* 13:187-189. 1949. 80 B85  
English summary.
- 18323 RODGERS, C. L. The Umbelliferae of North Carolina and their distribution in the Southeast. *Elisha Mitchell Sci. Soc. J.* 66:195-266. Ref. Dec.1950. 500 EL4
- 18324 ROZHANETS, G. M. Wild grape (*Vitis silvestris* Gmel.) along the Prut River. (In Russian.) *Bot. Zhur.* 35:294-296. Ref. May/June 1950. 451 R923
- 18325 SANDWITH, N. Y. A new *Malvastrum* from the Peruvian coast. Kew B. 1950:263-264. 451 K51B
- 18326 SANTAPAU, H. Notes on the Lentibulariaceae of Bombay. *Bombay Nat. Hist. Soc. J.* 49:217-221. Aug. 1950. 513 B63
- 18327 SAUER, J. D. The grain Amaranths: a survey of their history and classification. *Mo. Bot. Gard. Ann.* 37:561-632. Ref. Nov.1950. 451 M69
- 18328 SEALY, J. R. *Nomocharis* and *Lilium*. Kew B. 1950:273-297. 451 K51B
- 18329 SEYMOUR, F. C. Extension of *Solidago erecta*. *Rhodora* 52:288. Dec.1950. 450 R34
- 18330 SHINNERS, L. H. Notes on Texas Compositae. VI. *Field & Lab.* 18:156-159. Oct.1950. 470 F46
- 18331 SNYDER, D. E. *Dalea alopecuroides* on Plum Island, Essex County, Massachusetts. *Rhodora* 52:299. Dec.1950. 450 R34
- 18332 STANER, P., and LÉONARD, J. Observations sur quelques Ranunculaceae africaines. *Soc. Roy. de Bot. de Belg.* 8:321-344. Mar.1950. 451 B41B
- 18333 TOURNAY, R. La nomenclature et la synonymie des sous-espèces de *Cyperus papyrus* L. *Soc. Roy. de Bot. de Belg.* 8:345-352. Mar.1950. 451 B41B
- 18334 TURNER, B. L. *Kallstroemia perennans* Turner, nom. nov. *Field & Lab.* 18:155. Oct.1950. 470 F46
- 18335 VASIL'CHENKO, I. T. Data on the history of *Ephedra* origin. (In Russian.) *Bot. Zhur.* 35:263-273. Ref. May/June 1950. 451 R923
- 18336 VERDCOURT, B. Notes on the genus *Bersama* in Africa. Kew B. 1950:233-244. 451 K51B
- 18337 VILLAR, M. H. DEL. Diagnose d'une variété nouvelle du *Tamarix africana*: *Tamarix africana* Poir. var. *rungsii* HV. *Soc. des Sci. Nat. du Maroc. B.* 28:36-37. 1948, pub.1950. 515 Sol
- 18338 VRIES, V. DE. *Mareostachys, Hippuris vulgaris*. (In Dutch.) *Levende Nat.* 53:188-191. Oct.1950. 410 L57
- 18339 WALTERS, M. B. *Wolffia papulifera* and *Lemna minima* in Ohio. *Ohio J. Sci.* 50:266. Nov.1950. 410 Oh3
- 18340 WINTERRINGER, G. S. A fossil that came to life. *Living Mus.* 12:149-150. Nov.1950. 410 L762  
*Metasequoia glyptostroboides*.
- 18341 WINTERRINGER, G. S. A new orchid [*Hexaletris spicata*] for Illinois. *Living Mus.* 12:133-134. Sept.1950. 410 L762

## Pteridophytes

18342 MANTON, I. Problems of cytology and evolution in the Pteridophyta. Cambridge, U. Press, 1950. 316 p. Ref. 461.2 M31

18343 MARTENS, P. Les paraphyses de *Polypodium vulgare* et la sous-espèce *serratum*. *Soc. Roy. de Bot. de Belg. B.* 82:225-262. Ref. Mar.1950. 451 B41B

18344 TINDALE, M. D. Notes on two rare Australian species of *Cyathea*. *Rev. Sudamer. de Bot.* 8:175-177. Sept.1950. 450 R3242

18345 ZIEGENSPECK, H. Beitrage zur systematischen anatomie der Psilophyta, Psilotaceae, Lycopodiaceae, Selaginellaceae und Isoetaceae. *Rev. Sudamer. de Bot.* 8:178-204. Sept.1950. 450 R3242

## Bryophytes

18346 BERGHEN, C. VANDEN. Récoltes bryologiques en Belgique, dans le Grand-Duché de Luxembourg et dans le nord de la France. *Soc. Roy. de Bot. de Belg. B.* 82:315-319. Mar.1950. 451 B41B

18347 STEERE, W. C. On the distribution of *Aloina brevirostris* in North America. *Torrey Bot. Club. B.* 77: 503-508. Nov./Dec.1950. 451 T63B

18348 SZAFFRAN, B. The origin of the *Sphagna*. *Soc. Bot. Poloniae. Acta* (1949-50)20:35-44. Ref. 1950. 451 Sol6

## Algae

18349 DANGEARD, P., and PARRIAUD, H. Sur les espèces de *Fucus* du bassin d'Arcachon. *Paris. Acad. des Sci. Compt. Rend.* 231:1198-1200. Nov.27,1950. 505 P21

18350 DAWSON, E. Y. A review of *Ceramium* along the Pacific Coast of North America with special reference to its Mexican representatives. *Farlowia* 4:113-138. Ref. Dec.1950. 450 F22

18351 DICKINSON, C. I., and FOOTE, V. J. Marine algae from the Gold Coast. I. Kew B. 1950:267-272. 451 K51B

18352 DREW, K. M. Occurrence of *Asparagopsis armata* Harv. on the Coast of Cornwall. *Nature [London]* 166:873-874. Nov.18,1950. 472 N21

18353 GANTES, H. Niveaux d'algues sur la côte Atlantique à Témara (Maroc). *Paris. Acad. des Sci. Compt. Rend.* 231:1328-1329. Dec.6,1950. 505 P21

18354 LINARDIC, J. Studies on the Adriatic *Fucus* (*Fucus virsoides* Don. J. Ag.). (In Croatian.) *Zagreb. U. Bot. Inst. Izv.* 12/13:7-131. Ref. 1949. 451 Z1  
English summary.

18355 MANTON, I., and CLARKE, B. Electron microscope observations on the spermatozoid of *Fucus*. *Nature [London]* 166:973-974. Dec.9,1950. 472 N21

18356 MILICIC, D. *Pithophora* in the Botanic Garden in Zagreb. (In Croatian.) *Zagreb. U. Bot. Inst. Izv.* 12/13:266-269. 1949. 451 Z1  
English summary.

18357 MOROZOVA-VODIANITSKAIA, N. V. Quantity and biological productivity of phytoplankton in the Black Sea. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:821-824. Aug.1,1950. 511 P444A

18358 WERNER, R. G. Observations sur la répartition des algues et en particulier des Laminaires au Maroc. *Soc. des Sci. Nat. du Maroc. B.* 28:56-59. 1948, pub.1950. 515 Sol



18359 WYSOCKA, H. Algues de la Vistule au rayon de Varsovie. I. (In Polish.) Soc. Bot. Poloniae. Acta (1949-50)20:69-118. Ref. 1950. 451 So16

French summary.

18360 ZANEVELD, J. S. Three centuries of algae research in Indonesia, (1650-1950). (In Dutch.) Chron. Nat. 106:331-342. Ref. July 1950. 514 B31

#### Fungi (Including Lichens)

18361 ALEXOPOULOS, C. J., and SUNG, S. H. A new species of *Gelasinospora*. Mycologia 42:723-734. Nov./Dec.1950. 450 M99

18362 ASAHINA, Y. Nihon no chii hanagoke-zoku [Lichens of Japan]. Tokyo, Hirokawa, 1950. 255 p. 461.5 As1

18363 CUMMINS, G. B. Uredinales of continental China collected by S. Y. Cheo. I. Mycologia 42:779-797. Nov./Dec.1950. 450 M99

Includes new species in: *Melampsora*, *Phakopsora*, and *Coleosporidium*.

18364 DAAMS, J. Miscellaneous on toadstools. (In Dutch.) Natura 47:186-192. Oct.1950. 410 N2192

18365 DAVIDSON, R. W. *Urnula craterium* is possibly the perfect stage of *Strumella coryneoides*. Mycologia 42:735-742. Nov./Dec.1950. 450 M99

18366 DENNIS, R. W. G. Karsten's species of *Mollisia*. Kew B. 1950:171-187. 451 K51B

18367 DENNIS, R. W. G. New fungi. Kew B. 1950: 170. 451 K51B

New species in: *Tilletia*, *Unguicula*, and *Pezolepis*.

18368 DRECHSLER, C. A Harposporium infecting eelworms by means of externally adhering awl-shaped conidia. Wash. Acad. Sci. J. 40:405-409. Dec.15, 1950. 500 W276J

18369 HASKINS, R. H. Studies in the lower Chytridiales. II. Endo-operculation and sexuality in the genus *Diplophlyctis*. Mycologia 42:772-778. Ref. Nov./Dec. 1950. 450 M99

18370 IMSHAUG, H. A. New and noteworthy lichens from Mt. Rainier National Park. Mycologia 42:743-752. Ref. Nov./Dec.1950. 450 M99

Includes new species in *Cetraria* and *Pseudocyphellaria*.

18371 IMSHAUG, H. A. A new species of *Dermatocarpon*. Mycologia 42:753-757. Nov./Dec.1950. 450 M99

18372 ITO, S. Nihon kinrui-shi [Mycological flora of Japan]. Tokyo, Yokendo, 1950. v. 2, no. 3, 435 p. 462.16 It6

18373 MIDDELHOEK, A. It is fall again. (In Dutch.) Natura 47:193-196. Oct.1950. 410 N2192

Fungi.

18374 NETHERLANDSCHE AKADEMIE VAN WETENSCHAPPEN. CENTRAALBUR. VOOR SCHIMMELCULTURES. List of available species from the collection of yeasts at Delft, 1950. Baarn, 1950. 22 p. 451 Am8L

18375 PERLMAN, D. Some mycological aspects of penicillin production. Bot. Rev. 16:449-523. Ref. Nov. 1950. 450 B6527

18376 RAISTRICK, H. The chemistry of fungi. A region of biosynthesis. Suomen Kemistilehti. A 23:221-246. Ref. 1950. 283 Su7

18377 REESE, E. T., and others. Quartermaster culture collection. Farlowia 4:45-86. Dec.1950. 450 F22

H. S. Levinson, M. H. Downing, and W. L. White, joint authors.

18378 ROGERS, D. P. Nomina conservanda proposita and nomina confusa—Fungi. Supplement. Farlowia 4:15-43. Ref. Dec.1950. 450 F22

18379 SIMMONS, E. G. Culture studies in the genera *Pleospora*, *Clathrospora*, and *Leptosphaeria*. Mich. U. Microfilm Abs. 10(4):31-32. 1950. 241.8 M58

18380 SPARROW, F. K. The expanding horizons of mycology. Mycologia 42:683-692. Nov./Dec.1950. 450 M99

18381 SPRAGUE, R. Some leafspot fungi on western Gramineae. V. Mycologia 42:758-771. Ref. Nov./Dec. 1950. 450 M99

Includes new species in: *Viscomacula* n.g.; *Stagonospora*.

18382 THIRUMALACHAR, M. J. Notes on some Indian *Ustilagineae*. I-II. Lloydia 13:165-178. Ref. Sept. 1950. 442.8 L77

Includes new species in: *Sphacelotheca*, *Cintractia*, *Sorosporium*, *Pericladium*, and *Entyloma*.

#### PATHOLOGY

##### General

18383 ALDINGER, G. Untersuchungen über wundheilung an unseren obstäumen. Obstbau 69:138-139, 153-155. (Cont.) Sept.-Oct.1, 1950. 80 Ob73

18384 APPEL, O. Die entwicklung unserer kenntnis von den kartoffelkrankheiten. Kartoffelbau 1:120-123. Oct.1950. 75.8 K145

Germany.

18385 BAIN, D. C. Steps outlined for control of tomato diseases. Miss. Farm Res. [Miss. Sta.] 13(11):1-2. Nov.1950. 100 M69Mi

18386 BARTHOLOMEW, E. T., SINCLAIR, W. B., and HORSPOOL, R. P. Freeze injury and subsequent seasonal changes in Valencia oranges and grapefruit. Calif. Agr. Expt. Sta. B. 719, 48 p. Ref. Oct.1950. 100 C12S

18387 BARTRAM, R. D. Proper poison measures will curb orchard mice. West. Fruit Grower 4(11):13. Nov.1950. 95.8 G762A

18388 BERTIN, C. Le prix de revient des traitements des vignes. Phytoma 3(19):28-29. Sept./Oct.1950. 464.8 P563

18389 BRAUN, H. Bedeutung, erkenntnis und bekämpfung der hauptsächlichsten kartoffelknollen-krankheiten. Kartoffelbau 1:117-119. (To be cont.) Oct.1950. 75.8 K145

18390 BUHL, C. Die sogenannte "umfallerkrankheit" der kohlsamenträger (*Brassica oleracea* L.). Nachrbl. des Deut. Pflanzenschutzdienstes 2:3-5. Jan.1950. 442.9 B832

18391 BUTLER, F. C. Frost injury of wheat. N. S. Wales. Dept. Agr. Plant Dis. L. 123, 8 p. 1950. 464.9 N47

18392 CARDENOSA BARRIGA, R. Acción del salitre sódico en plantas de platano enfermas de 'rayadilla'. Palmira. Estac. Agr. Expt. Notas Agron. 3:103-108. May/Oct.1950. 102.5 P18N

18393 CARDENOSA BARRIGA, R. Ensayo de trasmision de un posible virus causante de la "rayadilla" del platano, de plantas enfermas a sanas. Palmira. Estac. Agr. Expt. Notas Agron. 3:125-141. Ref. May/Oct.1950. 102.5 P18N

18394 CARDENOSA BARRIGA, R. Estudio preliminar sobre agentes terricolas posibles causantes de la "rayadilla" del platano. Palmira. Estac. Agr. Expt. Notas Agron. 3:109-123. Ref. May/Oct.1950. 102.5 P18N

18395 CAROLINE, M. The control of injurious rodents. Hoosier Hort. 32:122-125. Sept.1950. 81 In2H

18396 CLAYTON, E. E., and MCMURTREY, J. E., JR. Tobacco diseases and their control. U. S. D. A. Farmers' B. 2023, 70 p. Nov.1950. 1 Ag84F

18397 CORMACK, M. W. Panel discussion on alfalfa diseases in Canada. Alfalfa Impr. Conf. Rpt. 12:23-26. 1950. 60.9 AL2

Discussion by R. J. Baylis, W. C. McDonald, H. W. Mead, M. W. Cormack, J. B. Lebeau, and R. W. Peake.

18398 DAY, W. R. Cambial injuries in a pruned stand of Norway spruce. Gt. Brit. Forestry Comm. Forest Rec. 4, 11 p. 1950. 99.9 G795Fo

18399 DILLER, O. D. Prevent rodent damage to nut plantings. Ohio Farm & Home Res. [Ohio Sta.] 35:63. Sept./Oct.1950. 100 Oh3S

18400 DUMAS, P. La lutte contre les ennemis du noyer. Phytoma 3(19):24-27. Sept./Oct.1950. 464.8 P563

18401 DU PLESSIS, S. J. Noteworthy vine diseases abroad. Farming So. Africa 25:322-328. Oct.1950. 24 So842

18402 EKSTRAND, H. Injuries to the winter crops during the winter 1948-49. (In Swedish.) Sweden. Stat. Växtskyddsanst. Växtskyddsnotiser 1950:6-11. Mar. 1950. 464.9 Sw3V

18403 FISCHER, J. Ausländische pflanzenschutzbestimmungen. Deut. Baumsch. 2:214-216, 218-219. Sept.1, 1950. 80 D486

18404 FLENTJE, N. T. Some aspects of plant pathology in Australia. Ann. Appl. Biol. 37:697-698. Dec.1950. 442.8 An72

18405 GARCES O., C. El control de las enfermedades de las plantas mediante la inmunización. Colombia. U. Nac. Facul. Nac. de Agron. Rev. 11:111-139. June/Sept. 1950. 9.4 C717

18406 HAINSWORTH, E. Pest and disease control. Indian Tea Assoc. Proc. 7:27-35. 1949. 68.19 T562

Includes discussion.



- 18407 HAL, A. Know the enemies of your plants. (In Flemish.) *Cult. en Handel* 16:727. Dec.1950. 80 C892 Strawberry diseases.
- 18408 HAYNE, D. W. Mouse populations in orchards and a new method of control. *Mich. Agr. Expt. Sta. Q. B.* 33:160-168. Nov.1950. 100 M58S
- 18409 HEBERT, T. T. Know your corn diseases. *Res. & Farming [N. C. Sta.]* 9(2):8-9. Autumn 1950. 100 N81R
- 18410 HENDERSON, I. B. Spraying eliminates Iris pests and diseases. *Amer. Iris Soc. B.* 120:43-47. Jan. 1951. 81 Am39
- 18411 HENDERSON, R. G. Alfalfa diseases in Virginia. *Alfalfa Impr. Conf. Rpt.* 12:22. 1950. 60.9 AL2
- 18412 HENZE, Die "sachgemässe" krähenvergiftung *Anz. f. Schädlingssk.* 23:168-169. Nov.1950. 421 An9
- 18413 HEPTING, G. H., and CRUIKSHANK, J. W. Littleleaf disease in South Carolina as determined by the Forest Survey. *J. Forestry* 48:837-839. Dec.1950. 99.8 F768
- 18414 HINE, R. The field mouse: characteristics and control. *Wis. Conserv. B.* 15(11):16-19. Nov.1950. 279.8 W752
- 18415 HIRT, R. R. They are not immune from trouble; Chinese chestnut ills. *Horticulture* 28:408. Nov. 1950. 80 H787
- 18416 HORI, M. Imo-rui byogaichu to bojo [Disease and insect resistant potatoes]. Tokyo, Asakura Shoten, 1950. 270 p. 464.4 H78
- 18417 HUSZ, B. Report on apple spraying experiments in 1948. (In Hungarian.) *Agártudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem.* 13:234-241. 1949. 80 B85  
English summary.
- 18418 ILLA CLAPAROLS, L. Origen de las enfermedades de las plantas. *Baleáric Isl. Diputación Prov. B. de Agr.* 73:12-13. Oct.1950. 15 B19
- 18419 INGELSTRÖM, E. Flower bulbs, year 1949. (In Swedish.) *Sweden. Stat. Växtskyddsanst. Växtskyddsnotiser* 1950:15-16. Mar.1950. 464.9 Sw3V  
Chiefly on diseases.
- 18420 KING, N. J. Control of disease in Q.28. *Austral. Sugar Ybk.* 9:129. 1950. 65.9 Au7
- 18421 KNIGHT, L. Brassica pests and diseases. *Grower [London]* 34:1225,1227. Dec.9,1950. 286.83 M34
- 18422 KÖHLER, H. Antibiotika und ihre bedeutung in der pflanzenpathologie. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n.s.)* 4:161-164. (To be cont.) Sept. 1950. 464.9 N11
- 18423 KUZ'MIN, M. K. Effect of smoke on plants. (In Russian.) *Lesn. Khoz.* 3(6):87. June 1950. 99.8 L5622  
Injuries to trees.
- 18424 LEFEBVRE, C. L., and HOLLOWELL, E. A. Seed treatment—does it pay with forage crops? *Crops & Soils* 3(4):18-19,23-24. Jan.1951. 6 W55
- 18425 LEHNER, F. The resistance of cultivated plants to disease. (In Portuguese.) *Lav. Arroz.* 4(45):28. Sept.1950. 59.8 L39
- 18426 MACHACEK, J. E. An agar-sheet method of testing the efficiency of seed treating machines. *Canad. J. Res. Sect. C, Bot. Sci.* 28:739-744. Dec.1950. 470 C16C
- 18427 MCNEW, G. L., MCCALLAN, S. E. A., and MILLER, P. R. The control of fruit & vegetable diseases. III-VI. *Canning Trade* 73(23):10-12,17-18. Dec.25,1950-Jan.15,1951. 286.83 T67  
Chemicals used on different crops.
- 18428 MANSFELD, K. Beiträge zur erforschung der wissenschaftlichen grundlagen der sperlingsbekämpfung. III. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n.s.)* 4:164-175. Ref. Sept.1950. 464.9 N11
- 18429 MOSBY, H. S., and DREILING, F. R. Protection from deer damage by using deer repellent. *Va. Fruit* 38(10):14-15. Oct.1950. 81 V81B
- 18430 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Diseases of tomatoes and how to control them. *N. S. Wales. Dept. Agr. Plant Dis. L.* 84,10 p. 1950. 464.9 N47
- 18431 NIELSEN, H. Experiences with the new sprays in fruit and vegetable gardens. (In Danish.) *Haven* 50:118-119. Sept.1950. 80 H29
- 18432 OLGAY, M. Hindert trimethylamin die keimung der steinbrandsporen? (In Hungarian.) *Agártudo. Egyetem Kert- és Szőlőgazdaságtudo Karának. Közlem.* 13:242-244. 1949. 80 B85  
German summary.
- 18433 OLSENS (J. E.) ENKE PLANTEPATOLOGISKE LABORATORIUM. 14 arsbetretning, 1. August 1948-31. July 1949. 14th annual report, August 1, 1948-July 31, 1949. Kobenhavn, 1950. 23 p. 464.9 Oh4
- 18434 ODA, F. Kaju byochugai [Cause of disease and damage by insects on fruit trees]. Tokyo, Meibundo, 1949. 298 p. 464.06 Od1
- 18435 PAUL, H. F. Tomatoes fight back; resistant varieties and good management lessens parasite damage. *Agrarian* 10:18. Nov.1950. 276.8 Ag8  
Disease control.
- 18436 PHYTOPATHOLOGISCH LABORATORIUM "WILLIE COMMELIN SCHOLTEN." Verslagen over 1949 [Report for 1949]. Arnhem, 1950. 12 p. 464.9 P56Ve  
English summary.  
Diseases of elms, oaks, and Picea abies.
- 18437 PLAGNAT, F. Le gui du sapin. *École Natl. des Eaux et Forêts et Sta. de Rech. et Expér. Ann.* 12:155-231. Ref. 1950. 99.9 F845
- 18438 POLL, H. Hebung der pflanzkartoffelgesundheit. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:99. Oct.1950. 18 D4822
- 18439 POTAPENKO, Í. A. I., and ZAKHAROVA, E. I. Rejuvenation principle in the formation and pruning of grape-vine bushes. (In Russian.) *Sad i Ogorod* 1950(9):38-44. Sept.1950. 80 Sa13  
To prevent frost damage.
- 18440 RIEUF, P. Le dépérissement des abricotiers. *Fruits et Primeurs de l'Afrique du Nord. Éd. Marocaine* 20:354-357. (To be cont.) Nov.1950. 80 F9482
- 18441 RON PEDRIQUE, A. La Conferencia Internacional Fitosanitaria de la Haya. *Agr. Venezol.* 15(144):12-13. July 1950. 9.95 Ag8
- 18442 SCARAMUZZA, L. C. Enemigos de la caña de azúcar en Cuba. *Labor [Habana]* 8:180-181. Dec.15, 1950. 8 L11  
Diseases and pests.
- 18443 SCHAEFER, E. E. Three common tomato diseases. *Transkeian Ter. Agr. Dept. Umcebisu Womlimi Nomfuyi* 27(4):44-46. Nov.1950. 24 T684  
Union of South Africa.
- 18444 SHAH, R. Certain observations on Broussonetia papyrifera Vent. and Boswellia serrata Roxb. in relation to traumatism. *Bombay Nat. Hist. Soc. J.* 49:288-290. Aug.1950. 513 B63
- 18445 SLEESMAN, J. P., and WILSON, J. D. New insecticides and fungicides for spraying potatoes. *Ohio Veg. & Potato Growers Assoc. Annu. Proc.* 35:142-149. 1950. 75.9 Oh3
- 18446 SLEESMAN, J. P., and WILSON, J. D. Spray and dust formulas for the control of vegetable insects and diseases. *Ohio Veg. & Potato Growers Assoc. Annu. Proc.* 35:105-111. 1950. 75.9 Oh3
- 18447 SMITH, F. B. Control of diseases and insect pests in the vineyard. *New Zeal. J. Agr.* 81:321,323,325-327,329-330. Oct.1950. 23 N48J
- 18448 SMITH, O. F. Some diseases of alfalfa in western United States and their relation to alfalfa improvement. *Alfalfa Impr. Conf. Rpt.* 12:19-21. 1950. 60.9 AL2  
Includes discussion.
- 18449 STAAR, G. Die aufgaben der pflanzenschutzämter. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:16-21. Sept.1950. 18 D4822  
Russian Zone of Germany.
- 18450 STANLEY, J. Where rabbits ruled. *Countryman [Burford]* 42:333-339. Winter 1950. 281.28 C832  
Rabbit Control programs in New Zealand.
- 18451 STROGANOVA, A. S., and IUDIN, K. A. Damaging activity of the small Siberian marmot in the young Quercus plantings in Stalingrad Region. (In Russian.) *Zool. Zhur.* 29:385-388. Sept./Oct.1950. 410 R92
- 18452 STRONG, F. C. Leaf diseases. *Ohio. Agr. Col. Ext. Nursery Notes* 19(9),6 p. Sept.1950. 275.29 Oh32N
- 18453 SUIT, R. F., and FORD, H. W. Present status of spreading decline. *Citrus Indus.* 31(12):5-7,14-15. Dec.1950. 80 C49
- 18454 TARAKA, K. Byogaichu bojo no jissai [Reality of protection from disease and damage of insect for agricultural products]. Tokyo, Chikuyo Shobo, 1950. 138 p. 464.8 T15
- 18455 THOMAS, W. D., JR. Winter injuries of shade and ornamental trees. *Green Thumb* 8(1):16-17. Jan. 1951. 80 G82



- 18456 TOGASHI, K. *Kaju byogaku* [Pathology of fruit-trees]. Tokyo, Asakura Shoten, 1950. 383 p. 464.06 T57
- 18457 UNTERSTENHÖFER, G. Untersuchungen über die betriebswirtschaftlichen Grundlagen der pflanzenpathologie. Höfchen-Briefe f. Wiss. u. Praxis 3(4):6-48. Ref. 1950. 464.8 H67  
English summary.
- 18458 VALLEGA, J. Resultados obtenidos en las investigaciones sobre el potencial patógeno de las especies parásitos que afectan a los cereales, sobre la búsqueda de factores genéticos de resistencia con respecto a las mismas, y lo que estos conocimientos significan para la selección de variedades resistentes a las enfermedades. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:214-219. Nov. 1950. 8 M577Fm
- 18459 VAN HORN, R. Libre su finca de los gorriónes. Agronomía [Habana] (ser.2)10(10):10-11. Nov. 1950. 8 C893
- 18460 VIADO, G. B. Control of land snails and slugs. Agr. & Indus. Life 12(11):4-5,37. Nov.1950. 25 Ag8
- 18461 WEISS, F. A., comp. Index of plant diseases in the United States. III. Gramineae. U. S. Bur. Plant Indus., Soils & Agr. Engin. Plant Dis. Survey. Spec. P. 1,529 p. Dec.15,1950. 1.965 M2Sp3
- 18462 WEST, E. Notes on Camellia diseases. I. Fla. Grower 58(12):20,28. Dec.1950. 80 F6622
- 18463 WHITE, A. N., and GODFREY, G. H. Vegetable diseases which are increased by damp weather. Tex. Farming & Citric. 27(5):6. Nov.1950. 80 T31
- 18464 WILSON, J. D. Preliminary results with low-gallonage sprays for vegetable disease control. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:86-96. 1950. 75.9 Oh3
- 18465 WILSON, J. D., and SLEESMAN, J. P. Relative control of vegetable diseases and insects with newer spray materials in 1949. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:64-86. 1950. 75.9 Oh3
- 18466 WRIGHT, J. E. "Addenda et corrigenda" a la colección de cultivos puros del Laboratorio Central de Fitopatología; catalogo preliminar - 1947. Argentina. Inst. de Sanid. Veg. [P.] Ser. B 6(18),22 p. Ref. 1950. 464.9 Ar323P
- 18467 ZIMMERMANN, E. Zur frage der verrieselungsschäden. Weinbau 5:231-232. June 18,1950. 390.8 W432
- Diseases Caused by Fungi
- 18468 ANDRADE, A. C. DE. Fungicidas and their uses. (In Portuguese.) Biológico 16:97-105. May 1950. 442.8 B529  
Uses and consumption in Brazil.
- 18469 ANDRÉN, F. Results of chemical treatment of seed 1948-49. (In Swedish.) Sweden. Stat. Växtskyddsanst. Växtskyddsnotiser 1950:11-15. Mar.1950. 464.9 Sw3V  
Grain.
- 18470 ANDRÉN, F. Spraying experiment against late blight of potatoes 1949. (In Swedish.) Sweden. Stat. Växtskyddsanst. Växtskyddsnotiser 1950:19-23. May 1950. 464.9 Sw3V
- 18471 BAUER, F. Zu: Eichensterben in Nordamerika. Forst u. Holz 5:259. Aug.15,1950. 99.8 F7724  
Chalara quercina.
- 18472 BEAUMONT, A. Observations on Narcissus leaf scorch in south-west England. Ann. Appl. Biol. 37: 591-596. Dec.1950. 442.8 An72  
Caused by Stagonospora curtisii.
- 18473 BENEKE, E. S. The volume occupied by fungus hyphae in raspberry fruits. Mich. Agr. Expt. Sta. Q. B. 33:124-126. Nov.1950. 100 M585
- 18474 BLANK, L. M., and LEYENDECKER, P. J., JR. Spread of Verticillium wilt to disease-free soils by infected cotton stalks. N. Mex. Agr. Expt. Sta. Press B. 1044,3 p. Nov.1950. 100 N465  
U. S. Bureau of Plant Industry, Soils, and Agricultural Engineering cooperating.
- 18475 BOLTON, J. L. Progress in breeding for resistance to winter crown rot. Alfalfa Impr. Conf. Rpt. 12: 62-64. 1950. 60.9 AL2
- 18476 BUSH, R. Silver leaf in Victoria plums. Countryman [Burford] 42:341-343. Winter 1950. 281.28 C832
- 18477 CAMPACCI, C. A. Rice blast. (In Portuguese.) Biológico 16:128-130. June 1950. 442.8 B529
- 18478 CICCARONE, A., and MALAGUTI, G. First field and laboratory tests for control of Sphacelotheca sorghi (Lk.) Clint. and knowledge of its biology in Venezuela. (In Italian.) Riv. di Agr. Subtrop. e Trop. 44: 145-177. Ref. July/Sept.1950. 26 Ag82  
English summary.
- 18479 CORTÁZAR SAGARMÍNAGA, R. Producción de trigos resistentes a los polvillos colorados (Puccinias) en Chile. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:220-232. Nov.1950. 8 M577Fm
- 18480 ENCISO C., T., and NARVAEZ M., I. Mejora-miento de la resistencia al chahuixtle [Puccinia sorghi] en las variedades de trigo en Mexico. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:18-22. Nov.1950. 8 M577Fm
- 18481 ETHELLE, J. L., and BELL, T. A. Classification of yeasts from the fermentation of commercially brined cucumbers. Farlowia 4:87-112. Ref. Dec.1950. 450 F22
- 18482 FINDLAY, W. P. K. The resistance of wood-rotting fungi to desiccation. Forestry 23:112-115. 1950. 99.8 F767
- 18483 FOCAN, A., KUCZAROW, W., and LAUDE-LOUT, H. L'influence de l'incinération sur l'incidence des maladies radicales. B. Agr. du Congo Belge 41: 921-924. Dec.1950. 24 K83  
Fomes and Armillaria.
- 18484 FRASER, L. Phytophthora diseases of citrus during 1950. Agr. Gaz. N. S. Wales 61:588-590. Nov.1, 1950. 23 N472
- 18485 FRÖIER, K., and ZIENKIEWICZ, H. Flax browning (Asterocystis radialis de Wildemann), a rare but dangerous fungus disease on flax. (In Swedish.) Lin 4:57-60. Aug./Sept.1950. 73.18 L63  
English abstract, p. 68.
- 18486 GASSNER, G. Neuere versuche zur bekämpfung des gerstenflugbrandes. Nachrbl. des Deut. Pflanzenschutzdienstes 2:65-67. May 1950. 442.9 B832
- 18487 GEESEMAN, G. E. Inheritance of resistance of soybeans to Peronospora manshurica. Agron. J. 42: 608-613. Dec.1950. 4 Am34P
- 18488 GJAERUM, H. B. A preparation against blossom wilt [Sclerotinia laxa] on apples. (In Norwegian.) Norsk Hagetid. 66:213-214. Nov.1/15,1950. 80 N81
- 18489 GODFREY, G. H. Rio-sweet, a new downy mildew resistant cantaloupe. Tex. Agr. Expt. Sta. Prog. Rpt. 1292,3 p. Nov.21,1950. 100 T31P
- 18490 GOIDANICH, G. Leaf curl [Exoascus deformans] of peach and plum. (In Italian.) Gior. di Agr. 60: 397. Dec.17,1950. 16 It1G
- 18491 GRAVES, A. H. Relative blight [Endothia parasitica] resistance in species and hybrids of Castanea. Phytopathology 40:1125-1131. Dec.1950. 464.8 P56
- 18492 HACKER, W. Zur bekämpfung des kleekrebses. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1: 98. Oct.1950. 18 D4822  
Sclerotinia trifoliorum.
- 18493 HARRIS, T. H. The white pine blister rust. Yosemite Nat. Notes 29:103-107. Nov.1950. 409.6 Y8
- 18494 HIRSCHHORN, E. Un nuevo método de infección artificial con el carbon de la caña de azúcar. Argentina. Dir. Gen. de Invest. Agr. Rev. de Invest. Agr. 3: 335-344. Ref. Oct.1949. 9 R329
- 18495 HOLMBERG, C. Comparative field tests with early potatoes immune to potato canker. (In Swedish.) Sweden. Stat. Växtskyddsanst. Växtskyddsnotiser 1950: 38-44. Aug.1950. 464.9 Sw3V
- 18496 HOORN, G. H. TE. Leaf spot [Mycosphaerella sentina] on pear leaves. (In Dutch.) Fruitteelt 40:806-807. Oct.19,1950. 86 N28
- 18497 JOHANNES, H. Ein pappelsterben, hervorgerufen durch den pilz, Septogloeum populiperdum sp. n. Nachrbl. des Deut. Pflanzenschutzdienstes 2:67-69. May 1950. 442.9 B832
- 18498 JUNE, R. I. Verticillium wilt of stone fruit. New Zeal. J. Agr. 81:307-308. Oct.1950. 23 N48J
- 18499 KEYWORTH, W. G. Inoculation of plants with vascular pathogens. Nature [London] 166:955. Dec.2, 1950. 472 N21  
Experiment with Verticillium albo-atrum.
- 18500 KLINKENBERG, C. H. Fungous root and stem diseases of strawberries. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:758-765. Oct.1950. 86 N384  
English summary.  
Black root rot, Verticillium and Botrytis cinerea.



- 18501 KLOTZ, L. J. Brown rot problems. Calif. Citrog. 36:94,108-109. Jan.1951. 80 C125
- 18502 LEUKEL, R. W., and MARTIN, J. H. Loose kernel smut of Johnson grass. Phytopathology 40:1061-1070. Dec.1950. 464.8 P56
- Sphacelotheca holci.
- 18503 LEYENDECKER, P. J., JR. Effects of certain cultural practices on Verticillium wilt of cotton in New Mexico. N. Mex. Agr. Expt. Sta. B. 356,28 p. Ref. June 1950. 100 N465
- 18504 LEYENDECKER, P. J., JR. Frost aids mold growth in sun-dried chile. N. Mex. Agr. Expt. Sta. Press B. 1045,3 p. Nov.1950. 100 N465
- 18505 LIMA, A. F. Controlling wilt [Entomosporium maculatum] of quince. (In Portuguese.) Lav. Arroz. 4(45):24. Sept.1950. 59.8 L39
- 18506 LINDFORS, T. Aggressive varieties of the potato canker fungus. (In Swedish.) Sweden. Stat. Växtskyddsanst. Växtskyddsnotiser 1950:17-18. May 1950. 464.9 Sw3V
- 18507 LINN, M. B. Tomato blight, its origin and control. Canner 111(23):11-13. Dec.9,1950. 286.83 C16
- 18508 LOEST, F. C. Orchard practices in relation to "collar rot" of citrus. Farming So. Africa 25:331-333, 340. Oct.1950. 24 So842
- 18509 MACNEILL, B. H. Studies in Septoria lycopersici Speg. Canad. J. Res. Sect. C, Bot. Sci. 28:645-672. Ref. Dec.1950. 470 C16C
- Leaf spot of tomato.
- 18510 MAGIE, R. O. New approach necessary in controlling Gladiolus Fusarium. No. Amer. Gladiolus Council. B. 24:99-100,102. Dec.1950. 96.43 N81
- Fusarium oxysporum.
- 18511 MALAGUTI, G. Phytophthora blight of safflower. Phytopathology 40:1154-1156. Dec.1950. 464.8 P56
- 18512 MAZZEI PATRONE, I. Caldo bordelés. Uruguay. Min. de Ganad. y Agr. B. Inform. 344:13-14. Oct.26,1939, i.e.1950. 9.9 G15B
- 18513 MEFFERT, M. E. Ein beitrag zur biologie und morphologie der erreger der parasitären blattdürre des mohns. Z. f. Parasitenk. 14:442-498. Ref. 1950. 442.8 Z33F
- Helminthosporium papaveris.
- 18514 MONTELLANO, P. Herencia de la resistencia al chahuixtle [Puccinia sorghil] en el maíz. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:13-14. Nov.1950. 8 M577Fm
- 18515 NATTRASS, R. M. Pyrethrum wilt in Kenya caused by Sclerotinia minor. East African Agr. J. 16:53-55. July 1950. 24 Ea74
- 18516 NEERGAARD, P. Laboratory spraying experiments with fungicides. (In Danish.) Frø og Gart. 15:32-33. May 1950. 80 F92
- Fruit.
- 18517 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Bunt or stinking smut of wheat. N. S. Wales. Dept. Agr. Plant Dis. L. 28,5 p. 1950. 464.9 N47
- Tilletia.
- 18518 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Downy mildew [Plasmopara viticola] of the grape vine. N. S. Wales. Dept. Agr. Plant Dis. L. 6,4 p. 1950. 464.9 N47
- 18519 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Oidium or powdery mildew of the vine. N. S. Wales. Dept. Agr. Plant Dis. L. 12,2 p. 1950. 464.9 N47
- Uncinula necator.
- 18520 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Sclerotinia rot of citrus, passion fruits, and other plants. N. S. Wales. Dept. Agr. Plant Dis. L. 46, 5 p. 1950. 464.9 N47
- 18521 NIEDERHAUSER, J. S. Enfermedades del maíz en Mexico y variedades resistentes. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:232-235. Nov.1950. 8 M577Fm
- 18522 PARRIS, G. K., and ANDRUS, C. F. The Ironsides watermelon; a new Fusarium wilt-resistant variety. Atlantic Coast Line Agr. & Livestock Topics 3:1-2. Jan.1951. 6 At63
- 18523 PETTINGA, J. J. The honey fungus (Armillaria mellea (Vahl) Sacc.). (In Dutch.) Fruitteelt 40:886. Nov.16,1950. 86 N28
- On fruit.
- 18524 PICHLER, F. Über roggsteinbrand (Tilletia tritici f. sp. secalis). Pflanzenschutzberichte 5:273-286. Ref. Oct.1950. 464.9 P48
- 18525 POZZI-ESCOT, M. E. Necesidad de una intervención técnico-química en la preparación de los caldos cúpricos fungicidas usados en agricultura. Cong. Peruano de Quim. Actas y Trab. 1949(2):598. 385 C763
- 18526 PUGSLEY, A. T. The resistance of Oro and Orfed wheats to Tilletia caries and Tilletia foetida. Austral. J. Agr. Res. 1:391-400. Ref. Oct.1950. 23 Au783
- 18527 RICHTER, H., and SCHNEIDER, R. Untersuchungen zur Rhizoctonia-anfälligkeit der kartoffelsorten. Züchter 20:257-267. Ref. 1950. 442.8 Z8
- 18528 RIVEROS, J. E. Desarrollo de la Peronospora de la vid. Vinos, Viñas y Frutas 45:240-241. Nov.1950. 9 Ag89
- 18529 SALLES, Y. D'où peut provenir la faiblesse de densité des betteraves sucrières? Agr. Charentais 5(22):1-2. Nov.30,1950. 14 Ag825
- Damage by Cercospora.
- 18530 SCHEU, H. Peronospora- und oldium-schaden 1950. Weinbau 5:288. Aug.6,1950. 390.8 W432
- Germany.
- 18531 SCHLEHUBER, A. M. Reaction of varieties and inheritance of resistance to races of leaf-rust, Puccinia rubigo-vera tritici (Eriks.) Carleton in hard red winter wheat. Z. f. Pflanzenzücht. 29:193-208. Sept.1950 450 Z36
- 18532 SCIGLIANO, J. A., GRUBB, T. C., and SHAY, D. E. Fungicidal testing of some organo-copper compounds. Amer. Pharm. Assoc. J. Sci. Ed. 39:673-676. Ref. Dec.1950. 396.9 Am33J
- 18533 SHEREF, A. F. A new method for the control of apple scab. Iowa State Hort. Soc. Trans. 84:90-91. 1949. 81 Io9
- 18534 SMITH, H. C., and BLAIR, I. D. Wheat powdery mildew [Erysiphe graminis tritici] investigations. Ann. Appl. Biol. 37:570-583. Ref. Dec.1950. 442.8 An72
- 18535 SPENCER, J. L., and WHITE, H. E. Anther smut disease of carnations. Carnation Craft 1950(14):4-5. Oct.1950. 80 C21
- 18536 SPERONI, H. A. La gomosis o podredumbre del pie de los citrus. IDIA; Inform. de Invest. Agr. 3 (33/34):35-36. Sept./Oct.1950. 9 Id3
- 18537 SPERONI, H. A. La podredumbre morena de las mandarinas. IDIA; Inform. de Invest. Agr. 3(33/34): 37-38. Ref. Sept./Oct.1950. 9 Id3
- 18538 STAKMAN, E. C., and LOEGERING, W. Q. Razas fisiologicas de Puccinia graminis tritici en Mexico. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:24-26. Nov.1950. 8 M577Fm
- 18539 STEIB, R. J., and CHILTON, S. J. P. The Phytophthora rot of sugarcane seed pieces in Louisiana. Sugar B. 29:69,77-78. Dec.1,1950. 65.9 Am32
- 18540 STOLL, K. Resistenzprüfungen an leguminosen gegenüber dem fusskrankheitserreger Ascochyta pinodella Jones. Z. f. Pflanzenzücht. 29:175-192. Ref. Sept. 1950. 450 Z36
- 18541 STOVER, R. H. The black rootrot disease of tobacco. II. Physiologic specialization of Thielaviopsis basicola on Nicotiana tabacum. Canad. J. Res. Sect. C, Bot. Sci. 28:726-738. Ref. Dec.1950. 470 C16C
- 18542 SWEDEN. STATENS VÄXTSKYDDSANSTALT. Potatiskräften i Sverige [The potato canker in Sweden]. Sweden. Statens Växtskyddsanst. Flygb. 91,8 p. 1950. 464.9 Sw3
- 18543 SZIRMAI, J. An apparatus for testing the washing out of dressed seed. (In Hungarian.) Agrtudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem. 13:224-233. 1949. 80 B85
- English summary.
- 18544 SZIRMAI, J. Test with chemicals to control the pepper's damping off disease [Rhizoctonia solani] in seedling beds. (In Hungarian.) Agrtudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem. 13:127-136. 1949. 80 B85
- English summary.
- 18545 TILFORD, P. E. Wilt-free carnation plants. Ohio Florists' Assoc. B. 254:2,4. Nov.1950. 81 Oh36
- Fungus and bacterial disease.
- 18546 TROSHCHANIN, P. G. Resistance [to fungus diseases] of pine seedlings in different areas. (In Russian.) Lesn. Khoz. 3(5):79-81. May 1950. 99.8 L562
- 18547 VALDERRAMA PARDO, R. Estudio de la Phytophthora de la papa. Campo [La Paz] 4(34):46-47,49; (35):67-71. Feb.-Mar.1950. 9.1 C15
- 18548 VERMILLION, M. T. A needle blight of pine. Lloydia 13:196-197. Sept.1950. 442.8 L77
- Pestalozzia funerea suggested as cause.



- 18549 VISSCHERS, A. J. Fusarium on asparagus. (In Dutch.) Groenten en Fruit 6:235. Oct.5,1950. 80 G89
- 18550 WAIN, R. L. New fungicides, sprays, hormones. (Sum.) Grower [London] 34:1160. Dec.2,1950. 286.8 M34
- 18551 WALKER, J. C. Environment and host resistance in relation to cucumber scab [Cladosporium cucumerinum]. Phytopathology 40:1094-1102. Ref. Dec. 1950. 464.8 P56
- 18552 WALLEN, V. R., and SKOLKO, A. J. Antibiotic XG as a seed treatment for the control of leaf and pod spot of peas caused by Ascochyta pisi. Canad. J. Res. Sect. C, Bot. Sci. 28:623-636. Ref. Dec.1950. 470 C16C
- 18553 WARK, D. C. The inheritance of resistance to Ascochyta pisi Lib. in Pisum sativum L. Austral. J. Agr. Res. 1:382-390. Oct.1950. 23 Au783
- 18554 WEAVER, L. O., JEFFERS, W. F., and BISELL, T. L. Dutch elm disease. Md. Agr. Col. Ext. B. 138,11 p. Aug.1950. 275.29 M36B
- 18555 WEAVER, L. O. Effect of temperature and relative humidity on occurrence of blossom blight [Sclerotinia fructicola] of stone fruits. Phytopathology 40:1136-1153. Ref. Dec.1950. 464.8 P56
- 18556 WILHELM, S., and THOMAS, H. E. Verticillium wilt of bramble fruits with special reference to Rubus ursinus derivatives. Phytopathology 40:1103-1110. Ref. Dec.1950. 464.8 P56
- 18557 ZAKOPAL, J. Contribution to the methodology in testing the new potato-crossing on their resistance to the wart disease. (In Czech.) Ochrana Rostlin 23:106-115. 1950. 464.8 Oc3  
English summary.
- Diseases Caused by Bacteria**
- 18558 ANDERSON, T. F. Bacteriophages. Annu. Rev. Microbiol. 4:21-34. Ref. 1950. 448.3 An72
- 18559 BALASUBRAHMANYAN, R., and RAGHAVAN, A. Bacterial blight [Xanthomonas malvacearum] on cotton in Madras. Indian Cotton Growing Rev. 4:118-123. Apr.1950. 72.8 In23
- 18560 DU CHARME, E. P. La causa de la cancrrosis del limón. IDIA; Inform. de Invest. Agr. 3(33/34):27-28. Sept./Oct.1950. 9 Id3  
Xanthomonas citri
- 18561 GRASER, H. I. Mound planting of walnuts may end crown-rot. West. Fruit Grower 4(11):17. Nov.1950. 95.8 G762A
- 18562 JONES, D. R., and DOWSON, W. J. On the bacteria responsible for soft rot in stored potatoes, and the reaction of the tuber to invasion by Bacterium carotovorum (Jones) Lehmann & Neumann. Ann. Appl. Biol. 37:563-569. Ref. Dec.1950. 442.8 An72  
Bacterium carotovorum (i.e. Erwinia carotovora) and Pseudomonas syringae.
- 18563 KATZNELSON, H. The detection of internally-borne bacterial pathogens of beans by a rapid phage-plaque count technique. Science 112:645-647. Dec.1, 1950. 470 Sci2
- 18564 KELMAN, A., and JENSEN, J. H. Storage of isolates of Pseudomonas solanacearum under mineral oil in relation to virulence. (Abs.) Elisha Mitchell Sci. Soc. J. 66:115-116. Dec.1950. 500 EL4
- 18565 LEWIN, J. C. Obligate autotrophy in Chlamydomonas moewusii Gerloff. Science 112:652-653. Dec.1,1950. 470 Sci2
- 18566 REIMER, F. C. Development of blight resistant French pear rootstocks. Oreg. Agr. Expt. Sta. B. 485,24 p. Sept.1950. 100 Or3
- 18567 SMITH, M. A., and RAMSEY, G. B. Bacterial fruitlet brown rot of Mexican pineapple. Phytopathology 40:1132-1135. Dec.1950. 464.8 P56  
Erwinia ananas.
- 18568 STAPLETON, N. M., and MCDERMOTT, L. A. The role of the aphids, Brevicoryne brassicae and Myzus persicae, in the spread of Xanthomonas campestris, the causal organism of black rot of turnips. Canad. J. Res. Sect. C, Bot. Sci. 28:699-705. Ref. Dec.1950. 470 C16C
- 18569 STARR, M. P., and GARCES O., C. El agente causante de la gomosis bacterial del pasto imperial [Axonopus scoparius] en Colombia. Colombia. U. Nac. Facul. Nac. de Agron. Rev. 11:73-83. Ref. June/Sept. 1950. 9.4 C717  
English summary.
- 18570 TESSI, J. L. Presencia de "Pseudomonas coronafaciens" en la Argentina y reacción de algunas variedades de avena frente a este parásito. Argentina. Dir. Gen. de Invest. Agr. Rev. de Invest. Agr. 3:319-334. Ref. Oct.1949. 9 R329
- Viruses and Virus Diseases**
- 18571 ALCARAZ MIRA, E. Obtención de razas de tabaco resistentes al mosaico ordinario. Almanaque Agr. Ceres 1951:311-338. 1950. 15 AL6
- 18572 ALEXANDER, L. J. The tobacco mosaic disease of glasshouse tomatoes: its transmission by soil and the effect of the disease on yield. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:168,170,172,174,176,178, 180. 1950. 75.9 Oh3
- 18573 BALD, J. G. Measurement of concentration of plant virus suspensions. In Conference on the Similarities and Dissimilarities between Viruses Attacking Animals, Plants, and Bacteria, Pasadena, 1950. Viruses 1950; proceedings of a conference held Mar.20-22, 1950, p.17-29. Ref. Pasadena, Calif. Inst. Technol., 1950. 448.2 C764
- 18574 BAWDEN, F. C. Interference phenomena with plant and bacterial viruses. In Conference on the Similarities and Dissimilarities between Viruses Attacking Animals, Plants, and Bacteria, Pasadena, 1950. Viruses 1950; proceedings of a conference held Mar. 20-22, 1950, p.30-34. Pasadena, Calif. Inst. Technol., 1950. 448.2 C764  
Comment by M. Delbrück.
- 18575 BAWDEN, F. C., and PIRIE, N. W. The varieties of macromolecules in extracts from virus-infected plants. In Conference on the Similarities and Dissimilarities between Viruses Attacking Animals, Plants and Bacteria, Pasadena, 1950. Viruses 1950; proceedings of a conference held Mar. 20-22, 1950, p.35-39. Pasadena, Calif. Inst. Technol., 1950. 448.2 C764
- 18576 BERCKS, R. Die bedeutung der serologie für erforschung und bekämpfung der kartoffelviren. Nachrbl. des Deut. Pflanzenschutzdienstes 2:6-8. Jan.1950. 442.9 B832
- 18577 BERCKS, R. Infektionsversuche mit verschiedenen X-virusherkünften an mehreren kartoffelsorten. Züchter 20:282-287. Ref. 1950. 442.8 Z8
- 18578 BLACK, L. M. A plant virus that multiplies in its insect vector. Nature [London] 166:852-853. Ref. Nov.18,1950. 472 N21  
The clover club-leaf virus, Aureogenus clavifolium, and its vector Agalliopsis novella.
- 18579 BONNEMAISON, L. Diverses méthodes de protection des plantes cultivées contre les maladies à virus. Acad. d'Agr. de France. Compt. Rend. 36:527-529. July 5,1950. 14 P215Bc
- 18580 BROADBENT, L., GREGORY, P. H., and TINSLEY, T. W. Roguing potato crops for virus diseases. Ann. Appl. Biol. 37:640-650. Ref. Dec.1950. 442.8 An72
- 18581 BROWN, A. C. Quick decline in Louisiana. Fla. Grower 58(12):12,29. Dec.1950. 80 F6622
- 18582 CAMERON, A. E. Virus diseases: precautions against the transmission of diseases in selecting citrus budwood. Citrus News 26:157-158. Oct.1950. 80 C494
- 18583 CHRISTOVA, E. La mosaïque sur la betterave en Bulgarie. (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsljed. Inst. Spis. 18:89-100. 1950. 106.3 R32  
French summary.
- 18584 COSTA, A. S., GRANT, T. J., and MOREIRA, S. Investigations on Tristeza of citrus. II. Opinions and data on the reaction of citrus plants to Tristeza. (In Portuguese.) Bragantia 9:59-80. Ref. Jan./Apr.1949. 102.5 B73Tb  
English summary.
- 18585 COSTA, G. DALLA. Tobacco: "mosaic" and its causes. (In Italian.) Cam. di Com. Indus. e Agr. Vicenza. Not. Econ. 5(20):4-6. Oct.16,1950. 287 V662
- 18586 CUZIN, J., and SCHWARTZ, D. Extraction et purification des stocks de proteide-virus de la mosaïque du tabac. Inst. Expt. du Tabac. Ann. 1:113-124. May 1950. 69.9 B45
- 18587 FERNANDEZ VALIELA, M. V. Tres portainjertos resistentes a la tristeza. IDIA; Inform. de Invest. Agr. 3(33/34):28. Sept./Oct.1950. 9 Id3  
Citrus.
- 18588 GARCES O., C. Enfermedades virosas de las papas. Soc. Antioqueña de Agr. B. Agr. 364/369:3162-3171. Dec.1949/May 1950. 9.4 Sol



- 18589 GREEN, D. E. Watch for virus in Pelargoniums. *Nurseryman & Seedsman* 111:1680-1681. Dec.7, 1950. 80 N933
- 18590 HARA, S. Byo chugai bojo benran [Handbook for the prevention and guarding from virus or blight]. Tokyo, Tokyo Nogyo Daigaku, 1949. 228 p. 464.4 H21
- 18591 HAUSCHILD, I. Zur virusresistenzzüchtung bei der kartoffel. Der einfluss der resistenz auf virusbefall und ertrag. *Züchter* 20:306-311. Ref. 1950. 442.8 Z8
- 18592 JOGLAR-RODRIGUEZ, F. El mosaico, enfermedad peligrosa del tabaco. *Lucha* 2(17, i.e. 18):17. Dec. 1950. 280.28 L96
- 18593 KNIGHT, C. A. Some salient points concerning plant viruses. In Conference on the Similarities and Dissimilarities between Viruses Attacking Animals, Plants, and Bacteria, Pasadena, 1950. *Viruses* 1950; proceedings of a conference held Mar. 20-22, 1950, p.52-63. Pasadena, Calif. Inst. Technol., 1950. 448.2 C764
- 18594 KUTSKY, R. J., and RAWLINS, T. E. Inhibition of virus multiplication by naphthalene acetic acid in tobacco tissue cultures as revealed by a spectrophotometric method. *J. Bact.* 60:763-766. Dec. 1950. 448.3 J82
- 18595 LOMBARD, P. M. The effect of a mild strain of latent mosaic virus X on yield of some of the new potato varieties in Maine. *Amer. Potato J.* 27:445-449. Dec. 1950. 75.8 P842
- 18596 MARAMOROSCH, K. Influence of temperature on incubation and transmission of the wound-tumor virus. *Phytopathology* 40:1071-1093. Ref. Dec. 1950. 464.8 P56
- 18597 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Crinkle disease of strawberry. N. S. Wales. Dept. Agr. Plant Dis. L. 75,2 p. 1950. 464.9 N47
- 18598 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Spotted wilt and other virus diseases of tomatoes. N. S. Wales. Dept. Agr. Plant Dis. L. 37,7 p. 1950. 464.9 N47
- 18599 NUTMAN, F. J. Studies of the clove tree. III. The effect of the sudden-death disease on water relations. *Ann. Appl. Biol.* 37:584-590. Ref. Dec. 1950. 442.8 An72
- 18600 SCHACHMAN, H. K. Recent studies on the homogeneity of tobacco mosaic virus. In Conference on the Similarities and Dissimilarities between Viruses Attacking Animals, Plants, and Bacteria, Pasadena, 1950. *Viruses* 1950; proceedings of a conference held Mar. 20-22, 1950, p.64-67. Pasadena, Calif. Inst. Technol., 1950. 448.2 C764
- 18601 SHEFFIELD, F. M. L. The clove trees of the Seychelles. *East African Agr. J.* 16:3-8. Ref. July 1950. 24 Ea74
- Sudden-death disease.
- 18602 STOLL, K. Bekämpfung von steinobst-viruskrankheiten im Staate Michigan, USA. *Schweiz. Z. f. Obst- u. Weinbau* 59:466-470. Dec.9, 1950. 80 Sch9
- 18603 TRAVESI, B. A. Estudio inicial sobre una enfermedad del girasol ("Helianthus annuus" L.) en Argentina. Argentina. Dir. Gen. de Invest. Agr. Rev. de Invest. Agr. 3:345-351. Oct. 1949. 9 R329
- A virus disease.
- 18604 WALLACE, J. M. Immunological properties of plant viruses. In Conference on the Similarities and Dissimilarities between Viruses Attacking Animals, Plants, and Bacteria, Pasadena, 1950. *Viruses* 1950; proceedings of a conference held Mar. 20-22, 1950, p.93-99. Pasadena, Calif. Inst. Technol., 1950. 448.2 C764
- Comment by S. E. Luria.
- 18605 ZABALA, S. Limoneros probablemente afectados por la "podredumbre de las raicillas." IDIA; Inform. de Invest. Agr. 3(33/34):26. Sept./Oct. 1950. 9 Id3
- Mentions *Paratoxoptera argentinensis*.

#### Diseases Caused by Nematodes

- 18606 AHLBERG, O. Undersökningar över potatis-nematoden *Heterodera rostochiensis* Woll. II. [Investigations on the potato nematode *Heterodera rostochiensis* Woll.]. Sweden. Statens Värstskyddsanst. Meddel. 55,56 p. Ref. 1950. 464.9 Sw3M
- English summary.
- 18607 BINGEFORS, S. Investigations on the distribution of the clover nematode and the possibilities for breeding nematode resistant red clover in Middle and North Sweden. II. (In Swedish.) *Sveriges Utsädesför.* Tidskr. 60:245-276. Ref. 1950. 61.9 Sv23
- English summary.
- 18608 BOOCK, O. J. Dowfume W-10 in control of nematodes parasitic on soybeans. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 25:297-304. Sept./Oct. 1950. 9.2 R324
- 18609 GOFFART, H. Über die nematozide wirkung neuer bodendesinfektionsmittel. *Nachrbl. des Deut. Pflanzenschutzdienstes* 2:105-107. July 1950. 442.9 B832
- 18610 GUTIERREZ, R. O. Nuevo género y especie de nematode saprobiente. Argentina. Dir. Gen. de Invest. Agr. Rev. de Invest. Agr. 3:403-412. Ref. Oct. 1949. 9 R329
- 18611 NEETHLING, L. J. Chemists wage war on eelworm and weeds. *Veldtrust* 11(8):27-30. Aug. 1950. 56.8 V54
- 18612 RAGALLER, F. Über rüben-nematoden und ihre bekämpfung. *Deut. Landwirt. mit Mitt. der Deut. Landwirtschaftsgesell.* 1:122-128. Nov. 1950. 18 D4822
- 18613 SOENEN, A. Nos cultures de fraises en peril. *Fruit Belge* 18:129-131. Sept. 1950. 80 F9493
- Nematodes.
- 18614 TARJAN, A. C. Investigations of meadow nematodes attacking box-wood, and the therapeutic value of sodium selenate as a control. *Phytopathology* 40:1111-1124. Ref. Dec. 1950. 464.8 P56

#### ECOLOGY

- 18615 AL'BITSKAÏA, M. A., and BEL'GARD, A. L. On interrelations of tree-shrub and grassy vegetation in the artificial forests of Dnepropetrovsk District. (In Russian.) *Bot. Zhur.* 35:225-232. May/June 1950. 451 R923
- 18616 ANSEMBOURG, V. D'. Aperçu de la végétation du Jura belge. *Soc. Roy. de Bot. de Belg. B.* 82:211-220. Mar. 1950. 451 B41B
- 18617 BERGHEM, C. VANDEN. L'association à *Isolepis setacea* et *Stellaria uliginosa* en Moyenne Belgique. *Soc. Roy. de Bot. de Belg. B.* 82:71-80. Ref. Oct. 1949. 451 B41B
- 18618 DEUSE, P., HENIN, H., and SEPULCHRE, G. Aperçu de la végétation des roches noires à Comblain-au-Pont. *Soc. Roy. de Bot. de Belg. B.* 82:51-55. Oct. 1949. 451 B41B
- 18619 DOMINIK, T. Le mélèze dans les forêts de Czerniejewo près de Gniezno et la dynamique du développement des ses mycorrhizes. (In Polish.) *Soc. Bot. Poloniae Acta* (1949-50) 20:305-330. Ref. 1950. 451 Sol6
- French summary.
- 18620 DOMINIK, T. Recherches sur les mycorrhizes des poiriers sauvages en ses biocénoses variées en Pologne. (In Polish.) *Soc. Bot. Poloniae Acta* (1949-50) 20:255-303. Ref. 1950. 451 Sol6
- French summary.
- 18621 DUNKLE, M. B. Plant ecology of the Channel Islands of California. Allan Hancock Pacific Exped. Rpt. 13:247-386. Ref. Nov. 30, 1950. 409 L89
- 18622 EN'KOVA, E. I. Territorial distribution of early and late-blooming forms of *Quercus robur*. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:139-142. Ref. Sept. 1, 1950. 511 P444A
- 18623 IAKOVLEV, F. S. Pine forests on sandy-stony and chalky soils of the Volga Area heights. (In Russian.) *Bot. Zhur.* 35:303-311. Ref. May/June 1950. 451 R923
- Ecological study.
- 18624 ISACHENKO, T. I. On the natural habitat of tree and shrub species in Kamennafá Steppe. (In Russian.) *Bot. Zhur.* 35:233-246. Ref. May/June 1950. 451 R923
- 18625 JEHN, K. H. The plant and animal environment: a frontier. *Ecology* 31:657-658. Oct. 1950. 410 Ec7
- 18626 KALELA, E. On the invasion of spruce in pine forests and its effect. (In Swedish.) *Skogsägaren* 26:212-215. Oct. 1950. 99.8 Sk55
- 18627 KLEIN, H. Pflanzensoziologie auch in der schule! *Allg. Forstz.* 5:461-462. Oct. 25, 1950. 99.8 AL52
- 18628 KOLAKOVSKIÏ, A. A. In regard to the dying out of Pitsunda pine grove. (In Russian.) *Bot. Zhur.* 35:284-291. May/June 1950. 451 R923
- An ecological study on various soil formations.
- 18629 LEBRUN, J., and others. Les associations végétales de Belgique. *Soc. Roy. de Bot. de Belg. B.* 82:105-199. Ref. Oct. 1949. 451 B41B
- A. Noirfalise, P. Heinemann, and C. vanden Berghen, joint authors.



- 18630 LUTZ, J. L. Ökologische landschaftsforschung und landeskultur; zur landschaftsökologie der Loissach-Kochelsee-Moore. Landwirt. Jahrb. f. Bayern 27(5/6):3-38. Ref. Sept./Oct.1950. 18 L24  
Chiefly plant ecology.
- 18631 MACFADYEN, W. A. Vegetation patterns in the semi-desert plains of British Somaliland. Geog. J. 116:199-211. Oct./Dec.1950. 472 G29
- 18632 MOOR. La végétation forestière du Jura. Forêt 4:2-4. Oct.1950. 99.8 F7683
- 18633 PIEMEISEL, R. L., and CARISNER, E. Replacement control and biological control. Science 113 (2923):14-15. Jan.5,1950. 470 Sci2  
An ecological study.
- 18634 REGEL, C. Dynamik von klima und pflanzen-decke in Nordeuropa. Geobot. Forschinst. Rübel. Zürich. Ber. 1949:11-23. Ref. 1950. 451 Z83Be
- 18635 RUBNER, K. Die waldgesellschaften der Reichenhaller umgebung. Allg. Forstz. 5:429-433. Oct.4, 1950. 99.8 AL52
- 18636 STEPANOV, V. N. Classification of field crops by their relationship to the cosmic factors [light and warmth] of their environment. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriázeva. Dok. 11:74-85. 1949. 20 M857
- 18637 SYMOENS, J. J. Note sur des formations de tuf calcaire observées dans le bois d'Hautmont (Wauthier-Braine). Soc. Roy. de Bot. de Belg. B. 82:81-95. Ref. Oct.1949. 451 B41B
- 18638 VAS'KOVSKIĬ, A. P. Boundary of the tundra vegetation zone on the northern shore of Okhotsk Sea. (In Russian.) Bot. Zhur. 35:298-300. May/June 1950. 451 R923
- MORPHOLOGY, ANATOMY, AND CYTOLOGY**
- 18639 ADAMS, A. M. A comparative study of ascospore formation by 43 yeast cultures. Canad. J. Res. Sect. F, Technol. 28:413-416. Nov.1950. 470 C16F
- 18640 AMATO, F. D'. Tissue differentiation by endopolyploidy in the roots of some monocotyledons. (In Italian.) Caryologia 3:11-26. Ref. 1950. 442.8 C25  
English summary.
- 18641 BATTAGLIA, E. Considerations on the better known evidence for "meiotic phenomena" in somatic tissues. (In Italian.) Caryologia 3:79-112. Ref. 1950. 442.8 C25  
English summary.  
Plant and animal (insect) tissues.
- 18642 BELL, H. P. Determinate growth in the blueberry. Canad. J. Res. Sect. C, Bot. Sci. 28:637-644. Dec.1950. 470 C16C
- 18643 BOUILLENNE, R., and BOUILLENNE-WALRAND, M. A propos du problème de la rhizogénèse. Soc. Roy. de Bot. de Belg. B. 82:41-50. Oct.1949. 451 B41B
- 18644 BROWN, R., and BROADBENT, D. The development of cells in the growing zones of the root. J. Expt. Bot. 1:249-263. Ref. Sept.1950. 450 J8224
- 18645 CHIARUGI, A. Numbers of chromosomes in the Liliaceae. (In Italian.) Caryologia 3:148. 1950. 442.8 C25
- 18646 DOMAC, R. The anatomical structure of the vegetative organs of *Drypis spinosa* L. (In Croatian.) Zagreb. U. Bot. Inst. Izv. 12/13:133-164. Ref. 1949. 451 Z1  
English summary.
- 18647 DRECHSLER, C. A Pythium with stout oogonial spines and coiled antheridial branches. Torrey Bot. Club B. 77:442-461. Ref. Nov./Dec.1950. 451 T63B
- 18648 DUCHAIGNE, A. Sur la coaptation des étuis stipulaires de *Ficus elastica* Roxb. Paris. Acad. des Sci. Compt. Rend. 231:1339-1341. Dec.6,1950. 505 P21
- 18649 DUNCAN, R. E., and ROSS, J. G. The nucleus in differentiation and development. III. Nuclei of maize endosperm. J. Hered. 41:259-268. Ref. Oct.1950. 442.8 Am3
- 18650 EMBERGER, L. La valeur morphologique et l'origine de la fleur (à propos d'une théorie nouvelle). Ann. Biol. [Paris] (ser.3)26:280-296. June 1950. 442.8 An7  
Includes discussion.
- 18651 FARDY, A., SCHWARTZ, D., and CUZIN, J. Structure et évolution cyto-histologique de l'apex chez *Nicotiana tabacum* L. Paris. Acad. des Sci. Compt. Rend. 231:1242-1243. Nov.27,1950. 505 P21
- 18652 GOLDSCHMIDT, R. B. Marginalia to McClintock's work on mutable loci in maize. Amer. Nat. 84: 437-455. Ref. Nov./Dec.1950. 470 Am36
- 18653 HAGBERG, A., and TJIO, J. H. Cytological localization of the translocation point for the barley mutant *erectoides* 7. Hereditas 36:487-491. 1950. 442.8 H42
- 18654 HOLZ, W. Missgestaltete birnenfrüchte. Nachrbl. des Deut. Pflanzenschutzdienstes 2:93-94. June 1950. 442.9 B832
- 18655 HORTOBÁGYI, T. Pflanzenteratologische daten. II. (In Hungarian.) Agrtudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem. 13:215-220. 1949. 80 H85  
German summary.  
Forsythia and Juglans regia.
- 18656 HUREL-PY, G. Modification de la morphogénèse de quelques Ptéridophytes et Bryophytes cultivés aseptiquement. Ann. Biol. [Paris] (ser.3)26:257-277. June 1950. 442.8 An7  
Includes discussion.
- 18657 ISHIKAWA TRIVEÑO, L. R. Importancia de la pollembionia en la reproducción de los cítricos. Agronomía [Lima] 15(62):43-45. June/Aug.1950. 9.8 Ag83
- 18658 KOZŁOWSKA, A. Studies on secretive hairs of *Ocimum canum* Sims., *O. sanctum* L. and their hybrids (In Polish.) Soc. Bot. Poloniae Acta (1949-50)20:223-245. Ref. 1950. 451 So16  
English summary.
- 18659 KÜSTER, E. Über die lagerung der chromoplasten (beobachtungen an pflanzlichen haaren). Protoplasma 39:282-289. Ref. 1950. 442.8 P94
- 18660 LEVAN, A., and LOTFY, T. Spontaneous chromosome fragmentation in seedlings of *Vicia faba*. Hereditas 36:470-482. 1950. 442.8 H42
- 18661 MAIROL, F., and WEBER, F. Notiz über *Cephalanthera albinos*. Protoplasma 39:275-277. Ref. 1950. 442.8 P94
- 18662 MANDY, G. Teratologische birnenfrüchte. (In Hungarian.) Agrtudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem. 13:87-88. 1949. 80 B85  
German summary.
- 18663 MARTINOLI, G. A karyological study of *Gagea soleirolii* F. Schultz. (In Italian.) Caryologia 3:72-78. 1950. 442.8 C25  
English summary.
- 18664 MENDES, A. J. T., and MEDINA, D. M. Cytological observations on *Coffea*. XII-XIII. (In Portuguese.) Bragantia 9:25-34,47-51. Ref. Jan./Apr.1949. 102.5 B73Tb  
English summary.
- XII, A new tetraploid form; XIII, Preliminary observations on *Coffea arabica* L. var. *rugosa* K.M.C.
- 18665 MEYER, J. Gigantisme nucléolaire et céclidogénèse. Paris. Acad. des Sci. Compt. Rend. 231:1333-1335. Dec.6,1950. 505 P21
- 18666 MILIČIĆ, D. The anatomical structure of the epicarp of the peach and some particularities in the mesocarp. (In Croatian.) Zagreb. U. Bot. Inst. Izv. 12/13:207-230. Ref. 1949. 451 Z1  
English summary.
- 18667 MILNE-REDHEAD, E. Variation in leaf-shape within a species: some examples from the Gold Coast. Kew B. 1950:261. 451 K51B  
Leaves from *Capparis erythrocarpa*, *Trichlistia subcordata*, and *Fagara xanthoxyloides*.
- 18668 MOEWUS, F. Über die zahlenverhältnisse der geschlechter bei *Valeriana dioica* L. Z. f. Naturf. 5b:380-383. Oct./Nov.1950. 474 Z3
- 18669 MUKHERJI, D. K. Height to node ratio of jute plants. Nature [London] 166:997. Dec.9,1950. 472 N21
- 18670 MÜNTZING, A. Accessory chromosomes in rye populations from Turkey and Afghanistan. (Abs.) Hereditas 36:507-509. 1950. 442.8 H42
- 18671 NOGTEV, V. P. New quantitative-anatomical and physiological indicators of xeromorphism and hygro-morphism of plants. (In Russian.) Akad. Nauk SSSR. Dok. 74:143-146. Sept.1,1950. 511 P444A
- 18672 NYGREN, A. A cytological and embryological study of *Antennaria porsildii*. Hereditas 36:483-486. Ref. 1950. 442.8 H42
- 18673 ÖSTERGREN, G. Cytological standards for the quantitative estimation of spindle disturbances. Hereditas 36:371-382. Ref. 1950. 442.8 H42  
Observations on mitosis of *Allium cepa* root tips.



- 18674 PFEIFFER, H. H. Polarisationsmikroskopische messungen an mikrosportenmutterzellen von *Tradescantia paludosa*. *Protoplasma* 39:277-282. 1950. 442.8 P94
- 18675 SAFEEULLA, K. M., and GOVINDU, H. C. Development of the female gametophyte and endosperm in *Bacopa hamiltoniana*. *Lloydia* 13:179-182. Sept. 1950. 442.8 L77
- 18676 ST. GIMESI, F., and FARKAS, G. L. Correlation entre le développement des étamines et du pistil. (In Hungarian.) *Agrtudo. Egyetem Kert- és Szőlőgazdaságtud.* Karának. Közlem. 13:196-198. 1949. 80 B85 French summary.
- 18677 SEARS, P. M. The mystery of twisted trees. *Nat. Hist.* 59:468-473. Dec. 1950. 500 N483J
- 18678 SIRONVAL, C. Observations sur la structure et le fonctionnement du méristème en rapport avec le développement chez *Fragaria vesca* L. var *semperflorens* Duch. *Soc. Roy. de Bot. de Belg.* B. 82:9-26. Oct. 1949. 451 B41B
- 18679 SKALIŃSKA, M. Studies in chromosome numbers of Polish Angiosperms. *Soc. Bot. Poloniae. Acta* (1949-50)20:45-68. Ref. 1950. 451 S616
- 18680 STRAUS, W. Microscopic structure of carrot chromoplasts. *Science* 112:745-748. Ref. Dec. 22, 1950. 470 Sci2
- 18681 SUETSUGU, I. Developmental morphology of the embryo in wheat varieties. (In Japanese.) Tokyo. *Natl. Agr. Expt. Sta. J.* 4:91-104. Ref. Mar. 1950. 107.6 N63J English summary.
- 18682 VAZART, J. A propos de l'existence de grains de pollen polypléides chez *Capsicum annum* L. Paris. *Acad. des Sci. Compt. Rend.* 231:1244-1245. Nov. 27, 1950. 505 P21
- 18683 VOUK, V., and NJEGOVAN, M. A light spot on the leaf of *Nelumbium*. (In Croatian.) *Zagreb. U. Bot. Inst. Izv.* 12/13:195-206. 1949. 451 Z1 English summary.
- 18684 VRTAR, B. Morphologie et l'origine plastidique des globules de caoutchouc chez *Ficus carica* et *Ficus elastica*. (In Croatian.) *Zagreb. U. Bot. Inst. Izv.* 12/13:165-193. Ref. 1949. 451 Z1 French summary.
- GENETICS
- 18685 ACOSTA C., A., and CASTILLO C., F. Fuentes de materia genética para la resistencia al desgrane en el trigo. *Mex. Ofic. de Estud. Espec. Fol. Misc.* 3:16-18. Nov. 1950. 8 M577Fm
- 18686 ARUTJUNOVA, L. G. Intravarietal cross-pollination of cotton. (In Russian.) *Agrobiologija* 1950(5):19-24. Sept./Oct. 1950. 20 Ag822
- 18687 BABADZHANIĀN, G. A. Difference in vitality and heredity of plants. (In Russian.) *Agrobiologija* 1950(5):3-12. Sept./Oct. 1950. 20 Ag822 Experiments in corn pollination.
- 18688 BAINS, G. S., and HOWARD, H. W. Haploid plants of *Solanum demissum*. *Nature* [London] 166:795. Nov. 4, 1950. 472 N21
- 18689 BATTAGLIA, E. Chromosomal mutations in *Scilla peruviana* L. (Third contribution). (In Italian.) *Caryologia* 3:126-147. 1950. 442.8 C25 English summary.
- 18690 BREZHNEV, D. D. Increasing the effectiveness of crossing in tomatoes. (In Russian.) *Agrobiologija* 1950(5):132-135. Sept./Oct. 1950. 20 Ag822
- 18691 BRIEGER, F. G. Theoretical explanation of heterosis and the methods of corn improvement. (In Portuguese.) *Mex. Ofic. de Estud. Espec. Fol. Misc.* 3:164-169. Nov. 1950. 8 M577Fm
- 18692 CARVALHO, A., and KRUG, C. A. Coffee genetics. XII. Inheritance of yellow seed color. (In Portuguese.) *Bragantia* 9:193-202. Sept./Dec. 1949. 102.5 B73Tb English summary.
- 18693 CHUDINOVSKAIA, G. A. Importance of varied characteristics of shoots in clonal selection of black currants. (In Russian.) *Moskov. Ordena Lenina Sel'skhoz. Akad. imi. K. A. Timirfazeva. Dok.* 11:241-245. 1949. 20 M857
- 18694 COSTA, A. S., and FORSTER, R. A leaf roll in tobacco of genetic origin. (In Portuguese.) *Bragantia* 9:43-45. Jan./Apr. 1949. 102.5 B73Tb English summary.
- 18695 ELGUETA, M. Bancos de plasma germinal y su organizacion interamericana. *Mex. Ofic. de Estud. Espec. Fol. Misc.* 3:44-53. Nov. 1950. 8 M577Fm For plant breeding.
- 18696 GIUFFRIDA, C. Genomatic mutations in *Urginea maritima* Bak. (In Italian.) *Caryologia* 3:113-125. Ref. 1950. 442.8 C25 English summary.
- 18697 GUSTAFSSON, A., NYBOM, N., and WETTSTEIN, U. VON. Chlorophyll factors and heterosis in barley. *Hereditas* 36:383-392. 1950. 442.8 H42
- 18698 HEINISCH, O., and RUTHENBERG, M. Die bedeutung der samenschale für die züchtung des ölkürbis. *Z. f. Pflanzenzücht.* 29:159-174. Ref. Sept. 1950. 450 Z36
- 18699 HITIER, H. Étude génétique des caractères "enation" et "catacolle" chez *Nicotiana tabacum* L. *Inst. Expt. du Tabac. Ann.* 1:31-61. Ref. May 1950. 69.9 B45
- 18700 IZARD, C. Contribution a l'étude cytogénétique des hybrides interspécifiques de *Nicotiana*. *Inst. Expt. du Tabac. Ann.* 1:79-92. Ref. May 1950. 69.9 B45
- 18701 KARISHNEV, R. Obtaining a winter wheat form during hybridization of spring wheats. (In Russian.) *Agrobiologija* 1950(5):135-137. Sept./Oct. 1950. 20 Ag822
- 18702 KIELLANDER, C. L. Polyploidy in *Picea abies*. (Abs.) *Hereditas* 36:513-516. 1950. 442.8 H42
- 18703 KRUG, C. A. Mutations in *Coffea arabica*. (In Portuguese.) *Bragantia* 9:1-10. Jan./Apr. 1949. 102.5 B73Tb
- 18704 LAMM, R. Linkage calculations from semi-sterility data. *Hereditas* 36:457-469. Ref. 1950. 442.8 H42 Investigations on *Pisum sativum*.
- 18705 LAMM, R. Self-incompatibility in *Lycopersicon peruvianum* Mill. (Abs.) *Hereditas* 36:509-511. 1950. 442.8 H42
- 18706 LARSON, R. I. Aneuploids in genetics and breeding of wheat. *Ent. Soc. Ontario. Annu. Rpt.* (1949)80:24-26. 1950. 420 On8
- 18707 MARTÍNEZ B., J. J., and WELLHAUSEN, E. J. Relación entre la coloración de plantas de maíz y el rendimiento. *Mex. Ofic. de Estud. Espec. Fol. Misc.* 3:12-13. Nov. 1950. 8 M577Fm
- 18708 MENDES, C. H. T. Introduction to a study of self-sterility in the genus *Coffea*. (In Portuguese.) *Bragantia* 9:35-41. Jan./Apr. 1949. 102.5 B73Tb English summary.
- 18709 MEXICO. SECRETARIA DE AGRICULTURA Y GANADERIA. La primera asamblea latinoamericana de fitogenetistas. *Mex. Ofic. de Estud. Espec. Fol. Misc.* 3, 273 p. Nov. 1950. 8 M577Fm
- 18710 MICHAELIS, P. Grundzüge der intraindividuellen plasmon-umkombination. *Protoplasma* 39:260-274. Ref. 1950. 442.8 P94
- 18711 MICHAELIS, P., and KAPLAN, R. W. Manifestationswechsel beim zusammenwirken chromosomaler und plasmatischer erbaktoren. *Naturwissenschaften* 37:494. Nov. 1, 1950. 474 N213 In plants.
- 18712 MULLER-STOLL, W. R. Mutative färbungsänderungen bei weintrauben. *Züchter* 20:288-291. 1950. 442.8 Z8
- 18713 MUÑOZ, J. M., and CÁRDENAS R., F. Variación genética de los frijoles de México. *Mex. Ofic. de Estud. Espec. Fol. Misc.* 3:62-71. Nov. 1950. 8 M577Fm
- 18714 NEGOVSKIĬ, N. A., and TITOVA, N. F. Change in sugar beet characteristics accomplished by grafting. (In Russian.) *Agrobiologija* 1950(5):104-107. Sept./Oct. 1950. 20 Ag822
- 18715 NOVICK, A., and SZILARD, L. Experiments with the chemostat on spontaneous mutations of bacteria. *Natl. Acad. Sci. Proc.* 36:708-719. Dec. 1950. 500 N21P
- 18716 OCHOA, R. E. Correlación entre el comportamiento de las líneas de maíz y el de las cruces en que han intervenido. *Mex. Ofic. de Estud. Espec. Fol. Misc.* 3:15-16. Nov. 1950. 8 M577Fm
- 18717 PAPAŽIAN, H. P. Physiology of the incompatibility factors in *Schizophyllum commune*. *Bot. Gaz.* 112:143-163. Ref. Dec. 1950. 450 B652
- 18718 POLUNIN, I. A. Vegetative hybridization of peas. (In Russian.) *Agrobiologija* 1950(5):94-103. Sept./Oct. 1950. 20 Ag822
- 18719 RHOADES, M. M. Gene induced mutation of a heritable cytoplasmic factor producing male sterility in maize. *Natl. Acad. Sci. Proc.* 36:634-635. Nov. 1950. 500 N21P



- 18720 ROBERTS, L. M. Las razas mexicanas de maíz mas útiles como material básico para su mejoramiento. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:71-84. Nov.1950. 8 M577Fm
- 18721 ROEMER, T., and RUDORF, W. Handbuch der pflanzenzüchtung, v.2, p.289-529; v.5, p.289-368. Berlin, Parey, 1949-50. 64 R66
- 18722 ROPER, J. A. Search for linkage between genes determining a vitamin requirement. Nature [London] 166:956-957. Ref. Dec.2,1950. 472 N21  
Aspergillus nidulans.
- 18723 ROUX, E. R. Interspecific plant hybrids. So. African J. Sci. 47:67-73. Oct.1950. 515 So84
- 18724 RUPERT, J. A. El plasma germinal disponible y necesidad para el mejoramiento del trigo en Mexico. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:54-62. Nov. 1950. 8 M577Fm
- 18725 SCHWARTZ, D. The analysis of a case of cross-sterility in maize. Natl. Acad. Sci. Proc. 36:719-724. Ref. Dec.1950. 500 N21P
- 18726 SEGAL, J. Les théories de Mitchourine Lyssenko et le mécanisme de l'hérédité. Indus. Agr. et Aliment. 67:347-356. Ref. Aug./Oct.1950. 383 As7  
English summary.
- 18727 SIMONET, M. Sur la méiose de quelques hybrides réalisés entre espèces tétraploïdes d'Iris. I. Paris. Acad. des Sci. Compt. Rend. 231:1158-1160. Nov. 20,1950. 505 P21
- 18728 SIMONET, M. Sur la méiose de quelques Iris pogocyclus et pogoregella. I. Hybrides réalisés à partir de l'I. chamaeiris. Paris. Acad. des Sci. Compt. Rend. 231:1247-1249. Nov.27,1950. 505 P21
- 18729 SOKOLOV, B. P. Improving the effectiveness of selection work with corn. (In Russian.) Agrobiologiya 1950(5):36-44. Sept./Oct.1950. 20 Ag822
- 18730 SPARROW, A. H., and MALDAWER, M. Differential rejoining as a factor in apparent sensitivity of chromosomes to X-ray breakage. Natl. Acad. Sci. Proc. 36:636-643. Ref. Nov.1950. 500 N21P  
Study of Trillium erectum.
- 18731 SPARROW, R. C., and SPARROW, A. H. Spontaneous chromosome fragmentation in Trillium erectum L. Amer. Nat. 84:477-488. Ref. Nov./Dec.1950. 470 Am36
- 18732 SPIEGELMAN, S., SUSSMAN, R. R., and PINSKA, E. On the cytoplasmic nature of "long-term adaptation" in yeast. Natl. Acad. Sci. Proc. 36:591-606. Ref. Nov.1950. 500 N21P
- 18733 TER-AVANESIAN, D. V., and GUREVICH, L. I. New data on inheritance of characteristics of two pollen parents in cotton. (In Russian.) Agrobiologiya 1950(5):13-18. Sept./Oct.1950. 20 Ag822
- 18734 VILLAMIL GARCIA, F. Resultados obtenidos en el mejoramiento del maíz Amarillo a base de cruzamientos multiples linea S1 X variedad, para producir variedades sintéticas. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:96-107. Ref. Nov.1950. 8 M577Fm
- 18735 WAGNER, M. N., and SAMPAYO, T. M. Note on the movement of univalents in pentaploid hybrids of wheat. (In Portuguese.) Brotéria 19:180-187. Ref. Nov. 1950. 410 B79C
- 18736 WELLHAUSEN, E. J., ROBERTS, L. M., and PALACIOS DE LA ROSA, G. La parte que desempeña el teocintle [Euchlaena] en la evaluación de las razas Tripsacoides del maíz. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:36-43. Nov.1950. 8 M577Fm
- 18737 WINGE, Ö., and ROBERTS, C. The polymeric genes for maltose fermentation in yeasts, and their mutability. Lab. Carlsberg. Compt. Rend. des Trav. Ser. Physiol. 25:35-83. Ref. 1950. 390.9 C16A
- 18738 WRIGHT, P. H. You can be a plant breeder. Horticulture 28:401,423. Nov.1950. 80 H787
- 18739 WUBBELER, J. Zur genetik der entwicklung in der gattung Epilobium IX. Faktorielle und plasmatische grundlagen der entwicklungsstörungen bei bastarden zwischen verschiedenen biotypen von Epilobium hirsutum und E. parviflorum. Biol. Zentbl. 69:339-390. Ref. 1950. 442.8 B523
- 18740 ALDRICH, D. G., and COONY, J. J. A response of lemon trees to phosphate fertilization. Calif. Citrog. 36:93,122-125. Jan.1951. 80 C125
- 18741 ALLARD, H. A. The sandbox tree [Hura crepitans] and its armament. Torrey Bot. Club. B. 77:509-515. Nov./Dec.1950. 451 T63B
- 18742 ANGELI, L. Der einfluss verschiedener bewässerungsformen und wassermengen auf den paprikaanbau. (In Hungarian.) Agrtudo. Egyetem Kert- és Szőlőgazdaságtudo. Karanak. Közlem. 13:75-86. 1949. 80 B85  
German summary.
- 18743 ANKIEV, V. V., and GOROSHCHENKO, E. N. Effect of water shortage in the soil on barley pollen in the light phase of its development. (In Russian.) Akad. Nauk SSSR. Dok. 74:373-376. Ref. Sept.11,1950. 511 P444A
- 18744 ARAKERI, H. R., and DUNHAM, R. S. Environmental factors relating to the pre-emergence treatment of corn with 2, 4-D and soybeans with TCA. Minn. Agr. Expt. Sta. Tech. B. 190,28 p. Ref. May 1950. 100 M66
- 18745 ARLAND, A. Saat- und pflanzgutbeurteilung, saat- und pflegemassnahmen im blickfelde der anweil-methode (ein weg zur steigerung der erträge unserer kulturpflanzen). Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:66-69. Oct.1950. 18 D4822
- 18746 ASHBY, D. G. The phytotoxic effects of D.D.T., B.H.C., parathion and toxaphene on tobacco. Ann. Appl. Biol. 37:624-639. Dec.1950. 442.8 An72
- 18747 BARBIER, G., CHABANNES, J., and TROCME, S. Sur un dépérissement de vergers aux environs d'Orléans. Acad. d'Agr. de France. Compt. Rend. 36:517-520. July 5,1950. 14 P215Bc
- 18748 BARLOW, H. W. B. Studies in abscission. I. Factors affecting the inhibition of abscission by synthetic growth-substances. J. Expt. Bot. 1:264-281. Ref. Sept. 1950. 450 J8224
- 18749 BASLAVSKAIA, S. S., and RUSINA, O. N. Photosynthesis of some algae in the ponds of Kamyshin District. (In Russian.) Akad. Nauk SSSR. Dok. 73:829-832. Aug.1,1950. 511 P444A
- 18750 BEAL, J. M., and SCULLY, N. J. Chromosomal aberrations in onion roots from plants grown in an atmosphere containing C<sup>14</sup>O<sub>2</sub>. Bot. Gaz. 112:232-235. Dec.1950. 450 B652
- 18751 BECKER, T. Siebenjährige blütenbiologische studien an den cruziferen Brassica napus L., Brassica rapa L., Brassica oleracea L., Raphanus L. und Sinapis L. I. Z. f. Pflanzenzücht. 29:222-240. Ref. Sept.1950. 450 Z36
- 18752 BECQUEREL, P. La vie latente des graines aux confins du zéro absolu. Paris. Acad. des Sci. Compt. Rend. 231:1274-1277. Dec.6,1950. 505 P21
- 18753 BEILMANN, A. P. Trees aren't choosy but they do need food; count calories for your favorite trees. Gard. & Gard. Chron. 54(8):65-67. Dec.1950. 80 G1632
- 18754 BENDER, E. K. Use of hormone sprays on field tomatoes to aid early fruit set. Md. Agr. Col. Ext. Misc. P. 112,2 p. Mar.1950. 275.29 M36Mis
- 18755 BER, A. A new interpretation of the mode of action of auxines. (In Polish.) Soc. Bot. Poloniae. Acta (1949-50)20:143-150. Ref. 1950. 451 Sol6
- 18756 BER, A., and MOSKWA, Z. On the influence of organic solvents on the growth of plants. (In Polish.) Soc. Bot. Poloniae. Acta (1949-50)20:151-154. 1950. 451 Sol6
- 18757 BER, A. On the influence of some barbiturates on the growth of plants. (In Polish.) Soc. Bot. Poloniae. Acta (1949-50)20:125-130. 1950. 451 Sol6
- 18758 BER, A. On the influence of thiouracil on the growth of plants. (In Polish.) Soc. Bot. Poloniae. Acta (1949-50)20:131-136. 1950. 451 Sol6
- 18759 BER, A. On the specific antagonism between thiouracil and uracil. (In Polish.) Soc. Bot. Poloniae. Acta (1949-50)20:137-142. 1950. 451 Sol6
- 18760 BERKNER, Die beziehungen zwischen pflanzenbau und witterungsablauf. Z. f. Acker- u. Pflanzenbau 93:22-32. Dec.1950. 18 J825
- 18761 BERNSTROM, P. Cleisto- and chasmogamic seed setting in di- and tetraploid Lamium amplexicaule. Hereditas 36:492-506. Ref. 1950. 442.8 H42
- 18762 BERTOSSI, F. First results of experiments using solutions with vitamin B<sub>1</sub> base for Burley tobacco seedlings. (In Italian.) Tabacco 54:278-283. Ref. Sept. 1950. 69.8 T115
- 18763 BIEBL, R. Über die resistenz pflanzlicher plasmen gegen vanadium. Protoplasma 39:251-259. Ref. 1950. 442.8 P94
- 18764 BITTERS, W. P., and BATCHELOR, L. D. Rootstocks affect orange sizes. Calif. Citrog. 36:92. Jan.1951. 80 C125

## PHYSIOLOGY



- 18765 BLAIR, G. Y., RICHARDS, L. A., and CAMPBELL, R. B. The rate of elongation of sunflower plants and the freezing point of soil moisture in relation to permanent wilt. *Soil Sci.* 70:431-439. Ref. Dec.1950. 56.8 So3
- 18766 BLUME, J. M., HAGEN, C. E., and MACKIE, R. W. Radiation injury to plants grown in nutrient solutions containing P<sub>32</sub>. *Soil Sci.* 70:415-426. Dec.1950. 56.8 So3
- 18767 BRAATHE, P. Growth inhibition of spruce on heather land. (In Norwegian.) *Tidsskr. f. Skogbruk* 58: 42-45. Mar.1950. 99.8 T432
- 18768 BROUGH, C. R. Potash deficiency in apple trees. *Victoria. Dept. Agr. J.* 48:456-457. Oct.1950. 23 V66J
- 18769 BROWN, J. G. Two, 4-D effects can persist in plant tissues. *Phytopathology* 40:1154. Dec.1950. 464.8 P56
- 18770 BULJAN, M. Developpement et fonctions des rhizoides de la Chara. *Zagreb. U. Bot. Inst. Izv.* 12/13: 257-264. 1949. 451 Z1
- 18771 BULJAN, M. Quelques investigations physiologiques sur la nutrition de la Chara. *Zagreb. U. Bot. Inst. Izv.* 12/13:239-256. Ref. 1949. 451 Z1
- 18772 BURR, G. O. The flowering of sugar cane. *Hawaii. Sugar Technol. Rpt.* 9:47-49. 1950. 65.9 H317
- 18773 BUTIJN, J. Magnesium and potassium deficiency in fruit culture. (In Dutch.) *Fruittelct* 40:802-803. Oct.19,1950. 86 N28
- 18774 BYNOV, F. A. Effect of topping and removal of suckers on nicotine formation in Aztec tobacco. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:833-834. Aug.1, 1950. 511 P444A
- 18775 CARLETON, R. M. Weedkillers may affect germination. *Green Thumb* 8(1):14-15. Jan.1951. 80 G82
- 18776 CARLONE, R. The use of hormones to prevent pre-harvest drop and the ripening of fruit. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:299-300. Nov.15,1950. 16 C72
- 18777 CARVALHO, A., and KRUG, C. A. Pollinating agents for coffee (*Coffea arabica*). (In Portuguese.) *Bragantia* 9:11-24. Jan./Apr.1950. 102.5 B73Tb English summary.
- 18778 CHAILAKHIAN, M. KH. Effect of carotene on growth and form development of plants. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:381-384. Ref. Sept.11,1950. 511 P444A
- Experiments with *Chrysanthemum indicum*, *Perilla nankinensis* and *Rudbeckia bicolor*.
- 18779 CHARRIN, V. Oxyde de fer et chlorose. *Prog. Agr. et Vitic.* 1950:391. Dec.17/24,1950. 14 P94
- Grapes.
- 18780 CHOUARD, P. Effets de l'âge et des dimensions des plantes, ainsi que de la température, sur les conditions photopériodiques d'induction à la floraison. *Paris. Acad. des Sci. Compt. Rend.* 231:1337-1339. Dec. 6,1950. 505 P21
- 18781 CHOUARD, P. Réversibilité de l'état reproductif à l'état végétatif sous l'effet du photopériodisme. *Paris. Acad. des Sci. Compt. Rend.* 231:1245-1247. Nov.27,1950. 505 P21
- 18782 CIFERRI, R., and CIFERRI, F. Effect of 2,4-D and o-isopropyl-N-phenylcarbamate on the germination of the seeds and development of the embryos of *Panicum crus-galli* and *Oryza sativa*. (In Italian.) *Risicoltura* 38: 188-192. (Concl.) Ref. Aug.1950. 59.8 G43
- 18783 CILLI, L. M. Influence of nitrogen fertilizers on floral abortion in some varieties of the olive (*O. europaea* L.) cultivated in the Pescara region. (In Italian.) *Olivicoltura* 5(9):4-7. Sept.1950. 80 OL42
- 18784 COMPAGNON, P., and TIXIER, P. Sur une possibilité de stimuler la production d'*Hevea brasiliensis* par l'apport d'oligo-éléments. 3. *Rev. Gén. du Caoutchouc* 27:663-665. Nov.1950. 305.8 R32
- English summary, p. 668.
- 18785 CORTVRIENDT, S. F., and BRACKE, J. La culture sans terre. *Rev. de l'Agr.* 3:1179-1196. Nov. 1950. 13 R322
- English summary.
- 18786 DAME. Getreideschäden durch unsachgemässe anwendung von unkrautmitteln auf hormonbasis. *Nachrbl. des Deut. Pflanzenschutzdienstes* 2:92-93. June 1950. 442.9 B832
- 18787 DANILOV, M. D., and KREYER, V. A. Effect of temperature regime on dates of bud opening in early and late-blooming aspen [*Populus*]. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:135-138. Sept.1,1950. 511 P444A
- 18788 DAUBENMIRE, R. F. A comparison of season of cambial growth in different geographic races of *Pinus ponderosa*. *Bot. Gaz.* 112:182-188. Dec.1950. 450 B652
- 18789 DELVER, P. Nutritional diseases in horticulture; origins of deficiency symptoms. II. (In Dutch.) *Boer en Tuinder* 4(203):4. Dec.9,1950. 12 B632
- 18790 DHILLON, A. S., and LUCAS, E. H. Absorption, translocation, and persistence of 2,4-dichlorophenoxyacetic acid in some plants. *Bot. Gaz.* 112:198-207. Ref. Dec.1950. 450 B652
- 18791 D'IAKOVA, E. V. Relation of clover, alfalfa and other forage plants to a surplus of mobile manganese in Podzolic soils. (In Russian.) *Vsesoiūzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(9):14-20. Ref. 1950. 20 Akl
- 18792 DIANNELIDIS, T. Plastiden-rückverlagerung nach zentrifugierung und narkose. *Protoplasma* 39:244-250. Ref. 1950. 442.8 P94
- 18793 DOBKINS, D. A. Crop-weather relationships. *Great Plains Agr. Council. Proc.* 1950:55-57. 282.9 G7992
- 18794 DUARTE R., E., and CARRILLO A., F. Influencia de la temperatura y fotoperiodismo sobre la precocidad en variedades de trigo. *Mex. Ofic. de Estud. Espec. Pol. Misc.* 3:23-24. Nov.1950. 8 M577Fm
- 18795 DUBOVIK, I. A. F. Role of biological absorption of mineral salts by the soil in plant nutrition. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:837-839. Aug.1, 1950. 511 P444A
- Experiments with tomatoes.
- 18796 DULANEY, E. L., and GRUTTER, F. H. The nutritional requirements of *Eremothecium ashbyi* Guill. *Mycologia* 42:717-722. Nov./Dec.1950. 450 M99
- 18797 ERDMANN, K. Verfahren zur erzielung von vollwertigen samenträgern der beta-rübe im ersten vegetationsjahr mit hilfe von kälte-behandlung. *Züchter* 20:291-296. Ref. 1950. 442.8 Z8
- 18798 ERICKSON, L. C., and BRANNAMAN, B. L. Reducing fruit losses: 2,4-D use for preharvest drop of Washington navel oranges. *Citrus Leaves* 30(12):18-19, 24-25,36. Dec.1950. 80 C492
- 18799 EYSTER, H. C. Effect of temperature on catalase activity. *Ohio J. Sci.* 50:273-277. Nov.1950. 410 Oh3
- Experiments with corn seedlings.
- 18900 FARDY, A., SCHWARTZ, D., and CUZIN, J. Effets de la défoliation sur le développement et le croisance de *Nicotiana tabacum*. *Inst. Expt. du Tabac. Ann.* 1:63-77. May 1950. 69.9 B45
- 18901 FOSTER, J. W., and DENISON, F. W., JR. Role of zinc in metabolism. *Nature [London]* 166:833-834. Nov.11,1950. 472 N21
- Experiments with *Rhizopus nigricans* and *Aspergillus niger*.
- 18902 FRANCO, C. M., and MENDES, H. C. Symptoms of mineral deficiencies in coffee. (In Portuguese.) *Bragantia* 9:165-173. Ref. Sept./Dec.1949. 102.5 B73Tb English summary.
- 18903 FREDERIKSEN, P. S. Hormone injuries to flax. (In Danish.) *Dansk Landbr.* 69:532-533. Oct.19, 1950. 280.28 V91
- 18904 GARDNER, F. E., REECE, P. C., and HORANIC, G. E. The effect of 2,4-D on pre-harvest drop of citrus fruit under Florida conditions. *Citrus Mag.* 13(4): 22-24. Dec.1950. 80 C498
- 18905 GAYET, J. Le métabolisme du phosphore chez les microorganismes et en particulier chez *Sterigmatocystis nigra*. *Ann. Biol. [Paris] (ser.3)* 26:325-334. Ref. July 1950. 442.8 An7
- 18906 GEORG, L. K. The relation of nutrition to the growth and morphology of *Trichophyton faviforme*. *Mycologia* 42:693-716. Ref. Nov./Dec.1950. 450 M99
- 18907 GESSNER, F., and ZWERENZ, F. Über die erhöhung der kälteresistenz der pflanzen bei stickstoffmangel. *Naturwissenschaften* 37:453-454. Oct.1950. 474 N213
- 18908 GILES, N. H., JR., and BEATTY, A. V. The effect of X-irradiation in oxygen and in hydrogen at normal and positive pressures on chromosome aberration frequency in *Tradescantia microspores*. *Science* 112: 643-645. Dec.1,1950. 470 Sc12
- 18909 GILL, D. L. DDT injury to Camellias. *Amer. Nurseryman* 92(11):7-8. Dec.1,1950. 80 Am371
- 18910 GISEVIUS, R. Beitrag zur wurzlingsvermehrung bei apfelgehölzen. *Züchter* 20:296-302. 1950. 442.8 Z8



- 18911 GREGORY, F. G. Growth and form in plants. Roy. Soc. London. Proc. Ser. B 137:461-469. Nov.28, 1950. 501 L84B
- 18912 GROBMAN, A. El boro en la nutrición mineral de las plantas. *Agrochimica* [Lima] 15(62):19-32. Ref. June/Aug.1950. 9.8 Ag83
- 18913 GROS, A. Quelques réflexions sur la verse des céréales; il faut tirer de la campagne 1950 des enseignements valables. *B. des Engrais* 22:129-131. Sept.1950. 57.8 B87
- France.
- 18914 GUBÁNYI, E., and PORPÁČZY, A. Die anwendung neuer wuchsstoffe in der vegetativen vermehrung. (In Hungarian.) *Agrotudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem.* 13:209-214. 1949. 80 B85
- German summary.
- 18915 GÜNTHARDT, H. Die abderhaldensche reaktion mit pflanzlichen substraten zur erkennung von identischen sorten und neuzüchtungen. *Z. f. Pflanzenzücht.* 29:209-221. Ref. Sept.1950. 450 Z36
- 18916 GUPALO, P. I. On the importance of dates of winter wheat sowing for its cold resistance. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:377-380. Ref. Sept.11,1950. 511 P444A
- 18917 GUSTAFSSON, Å., EHRENBORG, L., and BRUNNBERG, M. The effects of electrons, positrons and  $\alpha$ -particles in plant development. *Hereditas* 36:419-444. Ref. 1950. 442.8 H42
- 18918 HANF, M. Keimung von unkräutern und kulturpflanzen nach behandlung des bodens mit 2,4 D-mitteln. *Nachrl. des Deut. Pflanzenschutzdienstes* 2:84-90. June 1950. 442.9 B832
- 18919 HAVAS, L. J. Colchicine-mimetic actions of fungicides containing mercury and their inhibition by plant hormones. *Agrotudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem.* 13:52-65. Ref. 1949. 80 B85
- 18920 HAVAS, L. J. Responses of seedlings to "cor-hormone" and an embryonal extract of animal origin. *Agrotudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem.* 13:221-223. 1949. 80 B85
- 18921 HILL, D. L. DDT injury to Camellias. *South. Florist & Nurseryman* 63(36):12-13,46-47. Dec.1,1950. 80 S886
- 18922 HILL, H., and others. The relation of foliage analysis to keeping quality of McIntosh and Spy varieties of apples. *Sci. Agr.* 30:518-534. Ref. Dec.1950. 7 Sci2
- F. B. Johnston, H. B. Heeney, and R. W. Buckmaster, joint authors.
- 18923 HOLDSWORTH, M., and HEATH, O. V. S. Studies in the physiology of the onion plant. IV. The influence of day-length and temperature on the flowering of the onion plant. *J. Expt. Bot.* 1:353-375. Ref. Sept.1950. 450 J8224
- 18924 HÜBNER, R. Vierjährige untersuchungen über kornqualität und leistungseigenschaften des hafers. I. Morphologisch-physikalische untersuchungen. *Z. f. Acker- u. Pflanzenbau* 93:44-78. Dec.1950. 18 J825
- 18925 HUMPHRIES, E. C. The absorption of ions by excised root systems. I. *J. Expt. Bot.* 1:282-350. Ref. Sept.1950. 450 J8224
- 18926 IANOVSKII, D. New method for increasing seed germination of perennial legumes and grasses. (In Russian.) *Sovet. Agron.* 8(8):93. Aug.1950. 20 S84
- 18927 ILIEVA, S. Recherche sur le poids absolu et sur la germination des graines des plantes medicinales et étheriques. (In Bulgarian.) *Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis.* 18:31-68. Ref. 1950. 106.3 R32
- French summary.
- 18928 IL'INA, A. I. On the period of central raceme formation in castorbeans. (In Russian.) *Agrobiologiya* 1950(5):146-148. Sept./Oct.1950. 20 Ag822
- 18929 IVANOVA, G. F. Effect of ammoniacal and nitrate [nitrogen] nutrition on metabolism and growth of plants. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriázeva. Dok.* 11:180-187. 1949. 20 M857
- Experiments with tobacco, Aztec tobacco and corn.
- 18930 IVENS, G. W., and BLACKMAN, G. E. Inhibition of growth of apical meristems by ethyl phenylcarbamate. *Nature* [London] 166:954-955. Dec.2,1950. 472 N21
- 18931 JACOB, W. C., and DEAN, L. A. The utilization of phosphorus by two potato varieties on Long Island. *Amer. Potato J.* 27:439-445. Dec.1950. 75.8 P842
- 18932 JACOBONI, N. The hormonal stimuli with regard to rooting. (In Italian.) *Riv. di Biol.* 42:265-269. Apr./June 1950. 442.8 R52
- English summary.
- 18933 JAKOWSKA, S., NIGRELLI, R. F., and GOLD-SMITH, E. D. Growth responses in *Allium cepa*. Studies with 4-amino-pteroylglutamic acid. *Caryologia* 3:1-10. Ref. 1950. 442.8 C25
- 18934 JENSEN, G. Use psychrometer spraying against scald. (In Danish.) *Frø og Gart.* 15:28-29. May 1950. 80 F92
- Fruit.
- 18935 KAMIYA, N. The rate of the protoplasmic flow in the *Myxomycete plasmodium*. I-II. *Cytologia* 15:183-204. Ref. Aug.1950. 442.8 C99
- 18936 KATSNEL'SON, S. M. Relationship of tomatoes to various phosphate forms during different periods of growth. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:779-782. Aug.1,1950. 511 P444A
- 18937 KELLER, E. R., and PETERSON, M. L. Effect of photoperiod on red clover and timothy strains grown in association. *Agron. J.* 42:598-603. Dec.1950. 4 Am34P
- 18938 KELLER, R. Zur elektrophysiologie von drüsenprotoplasma. *Protoplasma* 39:176-179. Ref. 1950. 442.8 P94
- 18939 KELLY, F. C. El yodo y la vida de las plantas. *Agrario* 15(416):23-24,36. (Concl.) Sept.1950. 9.3 Ag85
- 18940 KEMMER, E. Beitrag zur frage der "jugendform" bei apfelgehölzen. *Züchter* 20:302-305. 1950. 442.8 Z8
- 18941 KENNING, W. Fotoperiodismo; divulgación ienologica. *Campo* [La Paz] 4(34):15,17-20. Feb.1950. 9.1 C15
- 18942 KERBY, R. G. Citrus rootstocks influence fruit quality. *Agr. Gaz. N. S. Wales* 61:574-576. Nov.1, 1950. 23 N472
- 18943 KIROV, K. Contribution a l'étude du régime des températures annuelles en Bulgarie et leur influence sur la vegetation. (In Bulgarian.) *Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis.* 18:3-30. Ref. 1950. 106.3 R32
- French summary.
- 18944 KOLESNIK, L. V. Effect of boron on grafts of grapes in time of stratification and budding. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(11):17-22. 1950. 20 Akl
- 18945 KORÓDI, L. L'effet du sulfatage sur le pouvoir germinatif du pois et sur la quantité de la récolte. (In Hungarian.) *Agrotudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem.* 13:190-195. 1949. 80 B85
- French summary.
- 18946 KOZŁOWSKI, A. Many-coloured oxidation-reduction system in the aerobic respiration of plant cells. (In Polish.) *Soc. Bot. Poloniae. Acta* (1949-50)20:251-253. 1950. 451 S616
- English summary.
- 18947 KRUSHILIN, A. S., and SHVEDSKAIA, Z. M. On the individual role of leaves in passing the developmental phase. (In Russian.) *Agrobiologiya* 1950(5):80-93. Sept./Oct.1950. 20 Ag822
- Experiments with tomatoes and potatoes.
- 18948 KUDASHEVA, R. F. Gutta content of *Euonymus verrucosus* in seed and vegetative propagation. (In Russian.) *Lesn. Khoz.* 3(5):75-77. May 1950. 99.8 L562
- 18949 KULLENBERG, B. Observations sur Ophrys et les insectes. *Soc. des Sci. Nat. du Maroc. B.* 28:138-141. 1948, pub.1950. 515 S61
- 18950 KWIATKOWSKI, G. Mesogerron als zellphysiologisches objekt. *Protoplasma* 39:289-294. Ref. 1950. 442.8 P94
- 18951 LAFON, J. La chlorose calcaire de la vigne. *Agr. Charentais* 5(22):2. (To be cont.) Nov.30,1950. 14 Ag825
- 18952 LAUDERMILK, J. An orchid of the chaparral. *Nat. Hist.* 59:464-468. Dec.1950. 500 N483J
- Pollination of *Habenaria unalascensis*.
- 18953 LEUTY, J. D. Lemon root growth study. *Calif. Citrog.* 36:131. Jan.1951. 80 C125
- 18954 LJONES, B. Frost injuries during the fruit tree blooming in As, 1950. (In Norwegian.) *Gartneryrket* 40:779-781. Nov.11,1950. 80 G1938
- 18955 LUDECKE, H., and NITZSCHE, M. Untersuchung über das verhältnis von löslicher asche und schädlichem stickstoff zur polarisation von zuckerrüben. *Zucker* 3:368-370,402-410. Sept.1-15,1950. 65.8 Z82



- 18956 LUNZER, F. Nachteile des "abblateln" der Gemüsepflanzen. Gart.-Z. illus. Flora 73:108. Sept.1950. 80 G1991
- 18957 MACEWAN, A. M. Translocation of radio-phosphorus in squash plants. Mich. U. Microfilm Abs. 10(4):29-30. 1950. 241.8 M58
- 18958 MCILRATH, W. J. Cotton-leaf malformations induced by organic phosphate insecticides. Bot. Gaz. 112: 221-225. Dec.1950. 450 B652
- 18959 MAERCKE, D. VAN. La détermination et la lutte contre les maladies de carence en agriculture et en horticulture. Rev. de l'Agr. 3:1047-1057. Oct.1950. 13 R322  
English summary.
- 18960 MARSDEN, D. H. Gas injury to trees. Trees 11:6-8, 16-17. (To be cont.) Nov./Dec.1950. 99.8 W52
- 18961 MASHTAKOV, S. M., KULAKOVSKAIA, T. N., and NIKITIN, B. M. The latex system and rubber yield of kok-saghyz. (In Russian.) Akad. Nauk SSSR. Dok. 73: 841-844. Ref. Aug.1,1950. 511 P444A
- 18962 MEHLISCH, K. Same und wuchsstoff. Saatgut-Wirtsch. 2:175-176. Aug.1950. 61.8 Sa1
- 18963 MESHCHERIAKOV, D. P. Vernalization of perennial grasses. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok. 11:97-100. 1949. 20 M857
- 18964 Mészöly, G. Das verhältniss zwischen ertrag und trockensubstanz bei den tomatensorten. (In Hungarian.) Agrtud. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem. 13:3-29. 1949. 80 B85  
German summary.
- 18965 MILLER, E. J., and HARRISON, J. S. Growth inhibition of a yeast by uracil, and its reversal by arginine. Nature [London] 166:1035. Dec.16,1950. 472 N21
- 18966 MITCHELL, H. K. Vitamins and metabolism in Neurospora. In Harris, R. S., and Thimann, K. V., eds. Vitamins and hormones; advances in research and applications, v. VIII, p.127-150. Ref. New York, Academic Press, 1950. 386.2 H243
- 18967 MIYAKE, M., and SUETSUGU, I. On the relations between the baking qualities and the characters of plant growth, grain and flour in the various varieties of wheat grown at the Kyushu Wheat Breeding Station in Japan. (In Japanese.) Tokyo. Natl. Agr. Expt. Sta. J. 4: 77-90. Ref. Mar.1950. 107.6 N63J  
English summary.
- 18968 MOEWUS, F. Die bedeutung von farbstoffen bei den sexualprozessen der algen und blütenpflanzen. Angew. Chem. 62:496-502. Ref. Nov.7,1950. 384 Z33
- 18969 MOLLER, E. F. Die wuchsstoffe der mikroorganismen unter besonderer berücksichtigung der hefen. Brauwissenschaft 1950:217-220. (Cont.) Nov.1950. 390.8 B732
- 18970 MOORE, R. M. Differential effects of certain phenoxyacetic acid compounds and phenylcarbamates on plant species. II. Effects of foliage applications with special reference to yields of wheat. Austral. J. Agr. Res. 1:401-412. Ref. Oct.1950. 23 Au783
- 18971 MORELAND, D. E. A study of the translocation of radioactive phosphorus in loblolly pine (Pinus taeda L.) Elisha Mitchell Sci. Soc. J. 66:175-181. Ref. Dec.1950. 500 EL4
- 18972 MORROW, R. R. Periodicity and growth of sugar maple surface layer roots. J. Forestry 48:875-881. Dec.1950. 99.8 F768
- 18973 NAUNDORF, G., and VILLAMIL G., F. Contribución al estudio de la fisiología del cacao. (Theobroma cacao L.). Tratamientos con ácido A-naftil acético y su influencia sobre la calda prematura y marchitamiento de los frutos jóvenes. 3. Palmira. Estac. Agr. Expt. Notas Agron. 3:173-174. May/Oct.1950. 102.5 P18N  
English summary.
- 18974 NICKELL, L. G. Effect of coconut milk on the growth in vitro of plant virus tumor tissue. Bot. Gaz. 112:225-228. Ref. Dec.1950. 450 B652
- 18975 NORKIE, W. Leaf fall and leaf spots on Cox's Orange. (In Danish.) Gart.-Tid. 66:490-492. Nov.1,1950. 80 G192  
Apple variety.
- 18976 NYBOM, N. Do X-rays resuscitate heat-killed seeds? (Abs.) Hereditas 36:516-517. 1950. 442.8 H42
- 18977 OVECHKIN, S. K. Absorption of mineral substances by barley at various developmental phases at the beginning of growth. (In Russian.) Akad. Nauk SSSR. Dok. 74:147-148. Ref. Sept.1,1950. 511 P444A
- 18978 OZEROV, G. V., and PAVLOV, A. N. Effect of soil moisture on cold resistance of guayule. (In Russian.) Akad. Nauk SSSR. Dok. 73:845-848. Aug.1, 1950. 511 P444A
- 18979 PERNER, E. S. Die intravitale aufnahme und speicherung sulfosaurer fluorochrome durch die obere zwiebelschuppenepidermis von Allium cepa. Protoplasma 39:180-205. Ref. 1950. 442.8 P94
- 18980 PISEK, A. Frosthärte und zusammensetzung des zellsaftes bei Rhododendron ferrugineum, Pinus cembra und Picea excelsa. Protoplasma 39:129-146. Ref. 1950. 442.8 P94
- 18981 PRIANISHNIKOVA, Z. D. Pathological changes in tissues of cultivated plants in connection with potassium deficiency. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok. 11:103-108. 1949. 20 M857  
Experiments with field crops.
- 18982 RAVAZZONI, C. Action of growth substances and herbicides on the enzymatic system of plants. (In Italian.) (Abs.) Chim. & Indus. 64(3,spec.no.):74. Sept. 1950. 383 C42
- 18983 RAYA, M. A. A. The rate of water-loss from stripped leaves. J. Expt. Bot. 1:322-328. Ref. Sept.1950. 450 J8224
- 18984 REES, W. J., and SKELDING, A. D. An inhibitor of salt absorption in root tissue of red beet. Nature [London] 166:823-824. Nov.11,1950. 472 N21
- 18985 REINERT, J. Über den wuchsstoffgehalt der Avena-koleoptilspitze und die chemische natur des extrahierbaren auxins. Z. f. Naturf. 5b:374-380. Oct./Nov. 1950. 474 Z3
- 18986 RICE, E. L. Effects of various plant growth-regulators on flowering in several crop plants. Bot. Gaz. 112:207-213. Ref. Dec.1950. 450 B652
- 18987 ROBBINS, W. J., HERVEY, A., and STEBBINS, M. E. Studies on Euglena and vitamin B12. Torrey Bot. Club. B. 77:423-441. Ref. Nov./Dec.1950. 451 T63B
- 18988 ROMAN, E. Travaux suédois récents sur les mycorrhizes des arbres. Ann. Biol. [Paris] (ser.3):26: 313-324. July 1950. 442.8 An7
- 18989 ROSBACO, U. F. Movimientos foliares y florales del girasol. Argentina. Dir. Gen. de Invest. Agr. Rev. de Invest. Agr. 3:413-414. Oct.1949. 9 R329
- 18990 ROWELL, M. E. Observations on resistance of Camellias to high temperatures. Camellia Rev. 12:3-4, 24. Oct.1950. 97.31 So82
- 18991 SCHENK, P. J. Injuries from fertilizers and other salts. (In Dutch.) Groenten en Fruit 6:303. Nov. 2,1950. 80 G89  
To fruit and flowers.
- 18992 SCHERMEISTER, L. J., and VOIGT, R. F., and MAHER, F. T. The influence of varying nitrogen levels on hydroponic growth and alkaloid production in Hyoscyamus muticus L. (Abs.) Amer. Pharm. Assoc. J. Sci. Ed. 39:669-672. Dec.1950. 396.9 Am33J
- 18993 SCHWABE, W. W. Factors controlling flowering of the Chrysanthemum. I. The effects of photoperiod and temporary chilling. J. Expt. Bot. 1:329-343. Ref. Sept.1950. 450 J8224
- 18994 SHCHERBAKOV, A. P., and MISHUSTIN, E. N. Nutritive conditions [mineral fertilizers] as a measure for accelerating the growth of oak seedlings and of developing mycorrhiza on their roots. (In Russian.) Agrobiologičeskiy 1950(5):121-127. Sept./Oct.1950. 20 Ag822
- 18995 SIEGEL, S. M. Plant-growth inhibitors from red kidney bean seeds. Science 112:754-755. Dec.22, 1950. 470 Sci2
- 18996 STAHLER, L. M., and WHITEHEAD, E. I. The effect of 2,4-D on potassium nitrate levels in leaves of sugar beets. Science 112:749-751. Dec.22,1950. 470 Sci2
- 18997 STEINECK, O. Wissenswerthes über nährlösungen. Gartenbauwirtschaft 16:184-185. Aug.25,1950. 80 G1936
- 18998 STUHLMAN, O., JR. The fundamental action, potentials developed in the lobes of Venus' fly-trap [Dionaea muscipula] due to a stimulus. (Abs.) Elisha Mitchell Sci. Soc. J. 66:112-114. Dec.1950. 500 EL4
- 18999 SYRACUSE UNIVERSITY. DEPT. OF PLANT SCIENCES. Physiology of the wood-rotting fungi. Syracuse? 1949-50. 2 v. 462.8 Sy8
- 19000 TAPI, G. On the pigment of the pollen of Asphodelus albus. (In Italian.) (Abs.) Chim. & Indus. 64(3,spec.no.):100. Sept.1950. 383 C42
- 19001 TAYLOR, F. J. Oxidative assimilation of glucose by Scenedesmus quadricauda. J. Expt. Bot. 1:301-321. Ref. Sept.1950. 450 J8224



- 18902 TERENYI, S. Action brulante des composés arseniques. (In Hungarian.) Agrártudomány 2:538-546. Ref. Sept.1950. 19 Ag83  
French summary.
- 18903 TOMASELLI, C. Italian wheat grows at the threshold of the Polar Circle. (In Italian.) Humus 6(9): 19-22. Sept.1950. 16 H88
- 18904 TÓTH, E. Fruchtfleisch und kernverhältnisse bei kirschen und weichseln. (In Hungarian.) Agrtudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem. 13:199-201. 1949. 80 B85  
German summary.
- 18905 TSAO, T. H., RABIDEAU, G. S., and WHALEY, W. G. Effects of differences in phosphorus nutrition on the nitrogen content and phosphorus 32 absorption of four species of grass. Bot. Gaz. 112:214-221. Ref. Dec.1950. 450 B652
- 18906 VERHEY, C. Research concerning the determination of the germinative power of beans. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13: 829-836. Nov.1950. 84 N384  
English summary.
- 18907 VIDALON G., C., SCHROEDER, R. A., and ALBRECHT, W. A. Relación de carbohidratos a proteínas en alverjas cultivadas bajo niveles variables de potasio, calcio y nitrógeno. Agronomía [Lima] 15(62):67-80. Ref. June/Aug.1950. 9.8 Ag83
- 18908 VINCE, D. Artificial lighting in horticulture. Gard. Illus. 67:312. Dec.1950. 80 G169
- 18909 VLIET, M. VAN DER. Injuries caused by growth substances. (In Dutch.) Groenten en Fruit 6:252. Oct.12,1950. 80 G89  
To fruit and vegetables.
- 18910 WARINGTON, K. The effect of variations in calcium supply, pH value and nitrogen content of nutrient solutions on the response of lettuce and red clover to molybdenum. Ann. Appl. Biol. 37:607-623. Ref. Dec. 1950. 442.8 An72
- 18911 WASHINGTON, AGRICULTURAL EXPERIMENT STATION. Effect of fertilizers on the chemical compositions of plants and on their value as feeds. Wash. Agr. Expt. Sta. C. 103,13 p. June 1950. 100 W27S
- 18912 WIEBOSCH, W. A., KOOT, I. VAN., and SANT, L. E. VAN. 'T. Hartloosheid en klemhart bij bloemkool. Whiptail in cauliflower. Netherlands. Dir. van de Landb. Verslagen van Landbk. Onderz. 56(10),53 p. Ref. 1950. 105.2 V61V  
English summary.
- 18913 WILHELM, A. F. Bormangel—die ursache schwerer krankheitserscheinungen an reben. Weinbau 5: 320-321. Aug.20,1950. 390.8 W432
- 18914 WOLF, D. E., and others. Effect of 2,4-D on carbohydrate and nutrient-element content and on rapidity of kill of soybean plants growing at different nitrogen levels. Bot. Gaz. 112:188-197. Ref. Dec.1950. 450 B652  
G. Vermillion, A. Wallace, and G. H. Ahlgren, joint authors.
- 18915 ZANON, K. W. Befruchtungsbiologische untersuchungen an südtiroler apfelsorten. Züchter 20:267-275. Ref. 1950. 442.8 Z8
- 18916 ZIEGLER, A. W., and LINTHICUM, B. Some physiological aspects of fertility in Achlya tuberculata. Elisha Mitchell Sci. Soc. J. 66:182-185. Dec.1950. 500 EL4
- BIOCHEMISTRY**
- 18917 ARTSIKHOVSKAIA, E. V., and RUBIN, B. A. Organic peroxides as a potential source of oxygen for the respiration of some plant tissues. (In Russian.) Akad. Nauk SSSR. Dok. 74:99-102. Sept.1,1950. 511 P444A  
Investigations on citrus.
- 18918 BRANDENBURG, E. Über die bildung von toxinen in der gattung Pythium und ihre wirkung auf die pflanzen. Nachrbl. des Deut. Pflanzenschutzdienstes 2: 69-70. May 1950. 442.9 B832
- 18919 CHEVALIER, A., and HAMET, R. Un Crinum toxique (C. yuccaeflorum Salisb.) des bords du Niger ayant une action digitalique. Paris. Acad. des Sci. Compt. Rend. 231:1191-1193. Nov.27,1950. 505 P21
- 18920 CHRISTIANSEN, G. S. The metabolism of stem tissue during growth and its inhibition. V. Nature and significance of the exudate. Arch. Biochem. 29:354-368. Ref. Dec.1950. 381 Ar2  
Peas.
- 18921 CLENDENNING, K. A., and EHRLMANTRAUT, H. C. Photosynthesis and hill reactions by whole Chlorella cells in continuous and flashing light. Arch. Biochem. 29:387-403. Ref. Dec.1950. 381 Ar2
- 18922 CUNNINGHAM, K. G., and others. Cordycepin, a metabolic product isolated from cultures of Cordyceps militaris (Linn.) Link. Nature [London] 166:949. Dec.2, 1950. 472 N21  
W. Manson, F. S. Spring, and S. A. Hutchinson, joint authors.
- 18923 CUTTER, V. M., JR. A survey of the carbohy-drase systems of Syncephalastrum racemosum Cohn. Farlowia 4:1-13. Dec.1950. 450 F22
- 18924 DION, W. M., and MCCONNELL, W. B. The proteolytic enzymes of microorganisms. I-III. Canad. J. Res. Sect. C. Bot. Sci. 28:577-612. Ref. Dec.1950. 470 C16C
- 18925 FELDMANN, J., and FELDMANN, G. Les "corps en cerise" du Laurencia obtusa (Huds.) Lamour. Paris. Acad. des Sci. Compt. Rend. 231:1335-1337. Dec. 6,1950. 505 P21
- 18926 GOODWIN, T. W. Carotenoids and reproduction. Cambridge Phil. Soc. Biol. Rev. 25:391-413. Ref. Oct.1950. 442.9 C14  
In plants and animals.
- 18927 HAXO, F. Carotenoids of the mushroom Cantharellus cinnabarinus. Bot. Gaz. 112:228-232. Dec.1950. 450 B652
- 18928 KOSKI, V. M. Chlorophyll formation in seedlings of Zea mays L. Arch. Biochem. 29:339-343. Dec. 1950. 381 Ar2
- 18929 KOSOBUTSKAIA, L. M., and KRASNOVSKIY, A. A. Investigation of reduction forms of chlorophyll, its derivatives and analogues by Timirfazev's reaction. (In Russian.) Akad. Nauk SSSR. Dok. 74:103-106. Ref. Sept.1,1950. 511 P444A
- 18930 KRETOVICH, V. L., and BUNDEL', A. A. Alanine formation in plants by direct amination of pyruvic acid. (In Russian.) Akad. Nauk SSSR. Dok. 74:107-110. Sept.1,1950. 511 P444A  
Experiments with squash sprouts.
- 18931 KUCERA, M. Sur les propriétés fluorescentes des graines de Datura stramonium L. Ann. Pharm. Franç. 8:564-571. July/Aug.1950. 396.8 An7
- 18932 MENTZER, C., MOLHO, D., and PACHECO, H. Relations entre la structure chimique et l'inhibition des tropismes chez les végétaux. Soc. de Chim. Biol. B. 32: 572-582. Ref. 1950. 383 So1
- 18933 PERCIVAL, E. G. V., and others. The xylan of Rhodymenia palmata. Nature [London] 166:787-788. Nov.4,1950. 472 N21  
S. K. Chanda, V. C. Barry, T. Dillon, B. Hawkins, and P. O'Colla, joint authors.
- 18934 PIRIE, N. W. The isolation from normal tobacco leaves of nucleoprotein with some similarity to plant viruses. Biochem. J. 47:614-625. Ref. Nov./Dec. 1950. 382 B52
- 18935 PRESTON, R. D., HERMANS, P. H., and WEDINGER, A. The crystalline-non-crystalline ratio in celluloses of biological interest. J. Expt. Bot. 1:344-352. Ref. Sept.1950. 450 J8224  
Valonia ventricosa, Pinus radiata and Bamboo spp. used in tests.
- 18936 ROBERTS, D. W. A. Nitrogen determination in wheat leaves. Canad. J. Res. Sect. C, Bot. Sci. 28:745-753. Ref. Dec.1950. 470 C16C
- 18937 ROBERTS, D. W. A. Qualitative and quantitative determination of the wheat leaf carbohydrates. Canad. J. Res. Sect. C, Bot. Sci. 28:754-779. Ref. Dec. 1950. 470 C16C
- 18938 SAINT RAT, L. DE. Le chrome chez les végétaux. Cong. Internat. des Indus. Agr. [Rapports] 1948(2):161-167. 1950. 388 C765
- 18939 SWIFT, H. The constancy of desoxyribose nucleic acid in plant nuclei. Natl. Acad. Sci. Proc. 36: 643-654. Ref. Nov.1950. 500 N21P
- 18940 TIBOR, R. Composition of fruit of tomato hybrids. (In Hungarian.) Agrtudo. Egyetem Kert- és Szőlő-gazdaságtudo. Karának. Közlem. 13:182-186. 1949. 80 B85  
English summary.
- 18941 TULLIN, V. Bettyrosinas. Beettyrosinase. Socker 6:193-217. Ref. Nov.1950. 65.8 So1  
English summary.
- 18942 VAZHENIN, I. G. Determination of oxidation-reduction potential in plants. (In Russian.) Pochven. Inst. im. V. V. Dokuchaeva. Trud. 31:91-95. 1950. 56.9 P44  
Experiments with potatoes.



- 18943 WAYGOOD, E. R., and CLENDENNING, K. A. Carbonic anhydrase in green plants. *Canad. J. Res. Sect. C, Bot. Sci.* 28:673-689. Ref. Dec.1950. 470 C16C
- 18944 WYND, F. L., and NOGGLE, G. R. Chemical composition of rye grown on different soil types in Ontario, Canada. VI-VII. *Lloydia* 13:183-195. Ref. Sept. 1950. 442.8 L77
- VI, Ascorbic acid content of the plants; VII, Relationships between concentrations of ascorbic acid and other components in the plant.
- 18945 ZARUDNAYA, K. I. A chromatographic study of anthocyanins and related substances in various genotypes of maize. *Mich. U. Microfilm Abs.* 10(4):32-33. 1950. 241.8 M58

## FIELD CROPS

Includes articles on general agronomy and on crop varieties, breeding, cultural practices, and yield.

## General

- 18946 BRETIGNIERE, L. L'ensemble des productions de la ferme extérieure de Grignon en 1949. *Acad. d'Agr. de France. Compt. Rend.* 36:516-517. July 5, 1950. 14 P215Bc
- 18947 CAVAZZA, L. Beitrag zur erkenntung von hartschalligen leguminosensamen. *Schweiz. Landwirt. Monatsh.* 28:378-380. Nov.20, 1950. 17 Sch93
- 18948 DUDKA, S. L. For a high cultural level in agriculture. (In Russian.) *Les i Step'* 2(7):69-70. July 1950. 99.8 L565
- Application of agronomical principles of Dokuchaev, Kostychev and Vil'fams on the Budennyi Collective Farm in Krasnodar Territory.
- 18949 FISCHER, G. J. El ensayo de variedades complejo en la fitotecnica rioplatense. *Mex. Ofic. de Estud. Espec. Fol. Misc.* 3:244-262. Nov. 1950. 8 M577Fm
- 18950 GUZMAN, V. L. Factores que influyen en la disminucion de los rendimientos de variedades mejoradas en cultivos autógamos. *Agronomia [Lima]* 15(62):33-41. Ref. June/Aug. 1950. 9.8 Ag83
- Field crops.
- 18951 IGNACIO, P. J. Teoría y elección de las rotaciones. *Campo [Tacuba]* (ser.2)18(703):39,42-44. Sept.30, 1950. 8 C157
- 18952 KUVSHINOV, I. S. In regard to economic aspects of the crop rotation system of agriculture. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriazeva. Dok.* 11:5-20. 1949. 20 M857
- 18953 KUZNETSOVA, A. V. Kak osvoit' travopol'nyi sevooborot [How to adapt the grass field crop rotation]. *Cheljabinsk, Cheljabinskoe Obl. Gos. Izd-vo*, 1950. 45 p. (Bibliotekha Agrotekhnicheskikh Znanii Dlia Kolkhoznikov) 33.31 K962
- 18954 LEES, A. B. Advantages of crop rotation. (In Italian.) *Cam. di Com. Indus. e Agr. di Milano. B. Econ. II. Studi e Statist.* 3(10):14-16. Oct.1950. 280.9 M587B
- 18955 LISZENKO, T. D. Sur l'instruction agronomique du Viljams. (In Hungarian.) *Agrártudomány* 2: 509-518. Sept. 1950. 19 Ag83
- 18956 MCLEAN, D. M. Field crop variety plots. *Line Elevators Farm Serv. C.* 10,9 p. May 1950. 59.9 L64
- 18957 MINAFRA, L. Technique at the service of agricultural production: selected seeds and appropriate fertilization to increase crop returns. (In Italian.) *Tec. Agr.* 2:95-97. July/Oct. 1950. 16 T22
- 18958 NIESER, O. Herkunftsbestimmungen. II. Saatgut-Wirtsch. 2:182-183. (Concl.) Aug. 1950. 61.8 Sa1
- 18959 NOHE, E. Was ist und bringt hochzucht-saatgut? *Württemb. Wchnbl. f. Landwirt.* 117:991. Oct. 28, 1950. 18 W96
- 18960 OGNEV, I. Proper grass-field crop rotation—the guarantee of high yields. (In Russian.) *Sovet. Agron.* 8(9):68-71. Sept. 1950. 20 So84
- 18961 PENNY, J. M. Some questions of the theory and practice of the profession of the agronomist. (In Portuguese.) *Lav. Arroz.* 4(44):8-10. Aug. 1950. 59.8 L39
- 18962 PUGH, B. M., SINGH, G. D., and GHOSH, A. K. Report of the Agronomy Department for 1949-50. *Allahabad Farmer* 24:165-169. Sept. 1950. 22 AL5
- Allahabad Agricultural Institute.
- 18963 SAENZ FETY, G. Uso de buenas semillas. *Rev. Nac. de Agr. [Bogotá]* 44(546):11-12. Oct. 1950. 9.4 R32
- Field crops.

- 18964 STABLER, S. P. Crop rotation and its merits. *Md. Farmer* 34(11):4,27. Nov. 1950. 6 M362
- 18965 TINGEY, D. C. Large variations found in yield of varieties of field crops in competition with morning-glory [*Ipomoea*] and when treated with 2,4-D. *Farm & Home Sci. [Utah Sta.]* 11:74-75,88-89. Dec. 1950. 100 U11F
- 18966 WEGE, C. 55 jahre zusammenschluss des feldsaatenhandels. *Saatgut-Wirtsch.* 2:172-173. Aug. 1950. 61.8 Sa1
- 18967 WHITE, J. M. Got any seeds?—laboratory at A&M can tell you if they will grow and what they will be when they mature. *N. Mex. Stockman* 15(12):58-60. Dec. 1950. 49 N462

## Cereals

- 18968 AGUIRRE S., C. Comparación de rendimiento de progenes F1, F2, F3, y F4 en algunos cruzamientos de maíz. *Mex. Ofic. de Estud. Espec. Fol. Misc.* 3:11-12. Nov. 1950. 8 M577Fm
- 18969 ÅKERMAN, Å. Judging the culture value of grain varieties guided by comparative experiments. (In Swedish.) *Sveriges Utsädesför. Tidskr.* 60:277-284. 1950. 61.9 Sv23
- 18970 ÅKERMAN, Å. Svalöf Blenda oats (01550). (In Swedish.) *Sveriges Utsädesför. Tidskr.* 60:285-289. 1950. 61.9 Sv23
- English summary.
- 18971 BEESON, K. Performances of oat and wheat varieties revealed in recent tests. *Purdue Agr.* 42(3):3, 20. Dec. 1950. 6 P97
- 18972 BOCANEGRA SALAZAR, S. Producción de híbridos y variedades sintéticas de maíz amarillo para la Costa Central del Peru. *Lima. Cent. Nac. de Invest. y Expt. Agr. de La Molina. B.* 38,6 p. Sept. 1950. 102.5 L622B
- 18973 BORLAUG, N. E. Métodos empleados y resultados obtenidos en el mejoramiento del trigo en Mexico. *Mex. Ofic. de Estud. Espec. Fol. Misc.* 3:170-187. Nov. 1950. 8 M577Fm
- 18974 BRÉTIGNIÈRE, L. Les récoltes exceptionnelles de blé et les moyennes. *Acad. d'Agr. de France. Compt. Rend.* 36:515-516. July 5, 1950. 14 P215Bc
- 18975 BRIEGER, F. G. The distribution of indigenous and commercial corn. (In Portuguese.) *Mex. Ofic. de Estud. Espec. Fol. Misc.* 3:90-95. Nov. 1950. 8 M577Fm
- In connection with breeding stock.
- 18976 BRÜCHER, H. Stammesgeschichte der getreide; eine kurze allgemein verständliche einföhrung in die abstammungs- und entwicklungs- probleme der europäischen brotgetreide. *Stuttgart, Franckh'sche Verlagshandlung*, 1950. 87 p. 463.69 B83
- 18977 BRYNER, C. S. Pa. 114A-42 a new wheat. *Sci. Farmer [Pa. Sta.]* 1950:3-4. Dec. 1950. 100 P381
- 18978 CAPINPIN, J. M., and YNIGUEZ, T. M. Behavior of five Brazilian rice varieties under lowland culture in the College of Agriculture. *Philippine Agr.* 33: 166-189. Jan./Mar. 1950. 25 P542
- 18979 CARVALHO E VASCONCELLOS, J. DE. La planta de trigo, morfología y fisiología. *Madrid, Instituto Nacional de Investigaciones Agronómicas*, 1950. 201 p. 463.5 C25Vs
- Amplified Spanish translation by R. Téllez Molina from the author's *A vida do trigo*.
- 18980 CHANDRARATNA, M. F. Report on a random sample survey of paddy yields in the Kandy, Kegalla and Ratnapura districts. *Trop. Agr. [Peradeniya]* 106:56-70. Apr./June 1950. 26 T751
- 18981 CHIAPELLI, R. Rice selection. (In Italian.) *Risicoltura* 38:193-194. Aug. 1950. 59.8 G43
- 18982 CONSOLINI, A. What we learned from the most important grain competition of the year. (In Italian.) *Terra e Sole* 97:289-291. Sept. 1950. 16 T273
- Concorso della Lombardia.
- 18983 CORNISH, E. A. The influence of rainfall on the yield of wheat in South Australia. *Austral. J. Sci. Res. Ser. B: Biol. Sci.* 3:178-218. Ref. May 1950. 442.8 Au72
- 18984 DREIER, A. F., and EHLERS, P. L. Nebraska outstate varietal tests of spring small grains, 1950. *Nebr. Agr. Expt. Sta. Outstate Testing C.* 11,24 p. Oct. 1950. 100 N270
- 18985 DU COURTIL, A. Comment récolter les maïs hybrides. *Vie à la Campagne* 39:325-326. Oct. 1950. 80 V67



18986. ETUDES agronomiques sur le riz au Soudan Français effectuées par le Service Agronomique de l'Office du Niger. Agron. Trop. 5:451-488. (Concl.) Sept./Oct.1950. 26 Ag86
18987. FOOD and AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. AGRICULTURE DIV. PLANT INDUSTRY BR. Results of co-operative hybrid maize tests in Europe, 1949; a progress report. Food & Agr. Organ. United Nations. Agr. Devlpmt. Paper 7,33 p. Oct.1950. 281.9 F733
18988. FORLANI, R. Newest wheat varieties. (In Italian.) Humus 6(9):6-8. Sept.1950. 16 H88
18989. GACITÚA L. R., H. Producción de maíz híbrido y selección de líneas puras en Chile. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:107-119. Nov.1950. 8 M577Fm
18990. GASPARINI, M. Mountain grain culture. (In Italian.) Humus 6(9):9-12. Sept.1950. 16 H88
18991. GAUDENZIO, R. Again the question of rice selection. (In Italian.) Riscicoltura 38:181-182. Aug.1950. 59.8 G43
18992. GEYER, J. A. Watch your ears!! Crops & Soils 3(4):9-10. Jan.1951. 6 W55  
Effect of corn-planting rate on yield.
18993. GIBSON, P. B., and MCCAIN, F. S. Experts tell how hybrid corns for Alabama are produced. This Month in Rur. Ala. 1951:4-5. Jan.1951. 6 T34
18994. GONÇALVES, P. A. Rice plantations in Crowley, Louisiana. (In Portuguese.) Lav. Arroz. 4(44):11-12, 14-15,17. Aug.1950. 59.8 L39
18995. GONÇALVES, P. A. Weights, varieties and borders. (In Portuguese.) Lav. Arroz. 4(45):15-18. Sept.1950. 59.8 L39
18996. HERNÁNDEZ F., A., and PUERTAS FABILA, J. L. El cultivo del sorgo en Mexico. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:27-28. Nov.1950. 8 M577Fm
18997. HIGGINS, F. H. High points in California harvest. Rice J. 53(12):17-19. Dec.1950. 59.8 R36
18998. HORNE, F. R. Cereal varieties in relation to soil fertility. Times Survey Brit. Agr. 1950:7. Oct.1950. 10 T48
18999. IMHOF, A. H. Students take to this program like ducks to water; and not only students, but scientists, seedsmen and teachers are learning more about corn hybrids, and what makes 'em tick. Natl. Co. Agent & Vo-Ag Teacher 6(12):8-9,20. Dec.1950. 275.28 N213
19000. INTERNATIONAL RICE COMMISSION. Report of the second session Rangoon, Burma, 6-11 February 1950. Bangkok, Food & Agr. Organ. United Nations, 1950. 46 p. 59.9 In83
19001. ISENBECK, K., and ROSENSTIEL, K. VON. Weizen, Triticum L. In Roemer, T., and Rudolf, W. Handbuch der pflanzen-züchtung 2:289-529. Ref. Berlin, Parey, 1949-50. 64 R66
19002. IVANOFF, S. S., and others. Oat varieties compared for grain yields. Miss. Agr. Expt. Sta. Inform. Sheet 453, 2 p. Sept.1950. 100 M69In  
D. Bowman, B. L. Arnold, B. C. Hurt, Jr., S. L. Wedgeworth, C. L. Blount., and H. A. Johnson, joint authors.
19003. JOHNSON, H. A., and GILL, J. B. Red rust-proof oats lead in winter grazing small grain variety tests at South Mississippi Experiment Station. Miss. Agr. Expt. Sta. Inform. Sheet 452, 2 p. Aug.1950. 100 M69In
19004. KAUERT, G. Discrimination de la pureté de race de l'orge de brasserie. Fermentatio 1950:35-42. 390.8 F38
19005. KECK, D. L. Results of Ronald Wood's method of planting barley. Crop Comments 4:1,4. Nov.1950. 57.8 C88
19006. KELSO, V., and SPENCE, J. Service and you in the Corn States Hybrid Service name and aim. Right Off Cob 5(9):1,5;(10):1,6,12. Oct.-Nov.1950. 59.8 R44
19007. KIHARA, Y. Kokurui [Grains]. Tokyo, Yuzankaku, 1949. 440 p. 59 K55
19008. LAGARDE, J. Les blés à préférer. Acclimatation 78:4. Jan.6,1951. 14 Ac2
19009. LAUBSCHER, F. X. Seed mealies. Farming So. Africa 25:316-320. Oct.1950. 24 So842  
Corn breeding.
19010. LAUMONT, P. Quelles variétés de céréales devez-vous semer? Voix des Colons 32(1579):1. (To be cont.) Oct.23,1950. 24 V85  
Algeria.
19011. LONA, F. Autumn and spring wheat in the high mountain. (In Italian.) Humus 6(9):28-29. Sept.1950. 16 H88
19012. LUCA, F. DE. Prospects for the extension of use of hybrid corn. (In Italian.) Agenzia Romana Note e Inform. Agr. 82:1-3. Dec.2,1950. 281.8 Ag3
19013. LUNGO, A. DEL. Hybrid seed corn has been produced this year in Italy. (In Italian.) Terra e Sole 99:379-381. Nov.1950. 16 T273
19014. LUT, F. A., and PLAVSKII, G. E. The best dates for sowing winter grain in the western regions of Ukraine. (In Russian.) Sovet. Agron. 8(8):38-44. Aug.1950. 20 So84
19015. MERCER, R. New grain varieties. Mont. Farmer-Stockman 38(2):15-16. Sept.15,1950. 6 M764
19016. MORIMOTO, K. Inasaku zoshuho soron [Introduction to the method for additional increase of rice cultivation]. Tokyo, Nogyo Shoin, 1950. 497 p. 59.24 M82
19017. MORIMOTO, K. Mugisaku zoshuho yosetsu [Essential methods for additional increase of wheat cultivation]. Tokyo, Nogyo Shoin, 1949. 224 p. 59.26 M822
19018. MÜLLER DEFRADAS, R. Los sorgos graniferos. Charla Rur. 144:4-5. Oct.1950. 9 C37
19019. NEHRING, K. Untersuchungen über das tiefumpflanzverfahren bei getreide. Z. f. Acker- u. Pflanzenbau 93:1-22. Dec.1950. 18 J825
19020. NETHERLANDS. RIJKSINSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Wintergerst, 1950 [Winter barley]. Netherlands. Rinst. v. Rassenonderz. van Landgewassen. Ber. over Rassenkeuze 87,1 p. Sept.1950. 64.9 W12
19021. NETHERLANDS. RIJKSINSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Winterrogge, 1950. [Winter rye, 1950.]. Netherlands. Rinst. v. Rassenonderz. van Landgewassen. Ber. over Rassenkeuze 88,2 p. Sept.1950. 64.9 W12
19022. PALACIOS, R. La eficiencia relativa del diseño lattice simple sobre lotes completos al azar, en ensayos de rendimiento con maíz. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:241-244. Ref. Nov.1950. 8 M577Fm
19023. PENNY, J. M. The Rice Experiment Station. (In Portuguese.) Lav. Arroz. 4(45):19-21. Sept.1950. 59.8 L39
19024. PFEIFFER, R. Ergebnisse der Admonter maisversuche 1950. Bundesanst. f. Alpine Landwirt. Versergeb. 6,28 p. 1950. 19 Ad6V
19025. PIACCO, R. Outlines of Italian rice culture. (In Italian.) Riscicoltura 38:195-203. (Cont.) Aug.1950. 59.8 G43
19026. PIACCO, R. The question of seeds in rice culture. (In Italian.) Riscicoltura 38:183-187. Aug.1950. 59.8 G43
19027. PIACCO, R. The technique of rice selection in the field. (In Italian.) Terra e Sole 97:301-302. Sept.1950. 16 T273  
For pure seed.
19028. PORTÈRES, R. Les races de riz à paddy glabre dans les centres de variation secondaire des Guyanes et des Iles Philippines (Oryza sativa L.) Agron. Trop. 5:528-532. Sept./Oct.1950. 26 Ag86
19029. PORTYANKO, V. F. Yarovization of corn. (In Russian.) Priroda 39(8):63-66. Aug.1950. 410 P933
19030. REBIFFE, J., LHOPITEAU, J., and THIZEAU, P. La culture du maïs en Beauce. Défense Agr. de la Beauce et du Perche 47:435-437. Nov.25,1950. 14 D36
19031. RÜTHER, H. Möglichkeiten der ertragssteigerung beim winterweizen, ein beitrag zur erfüllung des Fünfjahrplanes. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:87-90. Oct.1950. 18 D4822  
Russian Zone of Germany.
19032. SCHLEHUBER, A. M. Small grain breeders seed production and the plant breeder's role. Okla. Agr. Expt. Sta. Mimeog. C. M-206,9 p. Nov.1950. 100 Ok4M
19033. SHAW, W. L., KESTER, E. B., and VASAK, O. R. Research and the rice industry of California. Rice J. 53(12):6,8-12. Dec.1950. 59.8 R36
19034. SIBLEY, A. B. Grain sorghums—dry weather insurance. Agrarian 10:14,32. Nov.1950. 276.8 Ag8
19035. STOKAR, VON. Der weizen des Pharao. Orion 5:749-750. Sept.15,1950. 474 Or4
19036. THORPE, H. C. A note on the release of some new cereal varieties. II. East African Agr. J. 16:61. July 1950. 24 Ea74
19037. TKACHENKO, M. E. Kul'tura chumizy i ispol'zovanie ee dlia khoziaistvennykh tseli [Cultivation of Foxtail millet and its economic utilization]. Alma-Ata, Kazakhskoe Gos. Izd-vo, 1950. 14 p. 59.27 T54



19038 VALLE, C. G. del. Metodos empleados en el desarrollo de una variedad nueva de maiz blanco en Cuba. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:150-154. Nov. 1950. 8 M577Fm

19039 VIGIL, C. C. El mafez, fabuloso tesoro. Rev. Ganad. [Habana] 10(12):59-64. Dec.1950. 49 R321

19040 WALLER, E. 30 years comparative tests with varieties of winter rye at the Västgöta branch of Sweden's Seed Association at Skara. (In Swedish.) Sveriges Ut-sädesför. Tidskr. 60:371-379. 1950. 61.9 Sv23

19041 WELLHAUSEN, E. J. El programa de mejora-miento del maiz en Mexico. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:119-149. Ref. Nov.1950. 8 M577Fm

19042 WILTEN, W., and KORTENHORST, A. T. Verslag van de zomergerst proefvelden in 1948 en 1949 [Report of summer barley field tests in 1948 and 1949]. Natl. Comt. v. Brouwergerst. Jaarb. 16:372-450. 1950. 390.9 N21M

English summary.

#### Fiber Crops

19043 BEDERKER, V. K. Future cotton growing problems of Hyderabad State. Indian Cotton Growing Rev. 4:79-88. Apr.1950. 72.8 In23

19044 CANO, J. M., and CASTRO, G. A. Distanciamiento y poda de suspensión del algodnero. Cent. Nac. de Agron. C. Agr. 17,4 p. Aug.1950. 8 Sa54C

19045 CASTRO, G. P. Culture of New Zealand fiberlily. (In Portuguese.) Soc. Rur. Brasil. Rev. 30 (359):26-27. Oct.1950. 9.2 B733

Phormium tenax.

19046 CHILDERS, L. Ag leaders should know about new chemicals for defoliation. Better Farming Methods 23:14,68-69. Jan.1951. 58.8 B46

Cotton.

19047 GODFRYD, M. Le jute au Bengale. Ann. de Géog. 59:203-213. May/June 1950. 473 An75

19048 GRUGET, E. A. El cañamo. Bolsa de Cereales, Buenos Aires. Rev. 37(1974):22,24,26-28. (To be cont.) Nov.30,1950. 287 B866

Culture.

19049 HARRINGTON, J. B. Objectives and progress in flax breeding at the Prairie Province Universities. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:72-73. 1949. 59.9 C169

19050 HELGASON, S. B. Effect of crop sequence on flax. Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg. 16:92. 1949. 59.9 C169

19051 JONES, D. L., and others. Cotton variety tests at Lubbock, 1947-49. Tex. Agr. Expt. Sta. Prog. Rpt. 1298,6 p. Dec.6,1950. 100 T31P

J. Box, E. L. Thaxton, Jr., and L. L. Ray, joint authors. 19052 JONES, H. W. Arizona cotton sets new lint yield records. Cotton Digest 23(18):44-45. Jan.20,1951. 286.82 C822

19053 KUBERSINGH. The extension of the improved varieties of cotton in member-states of central India and Rajputana. Indian Cotton Growing Rev. 4:106-117. Apr. 1950. 72.8 In23

19054 MAY, J. C. Better cotton in bigger yields. New Commonwealth 21(2):127-129. Nov.1950. 280.8 C88

19055 NANAYAKKARA, I. P. A method of treating cotton seed for seed-drill sowing. Trop. Agr. [Peradeniya] 106:75-76. Apr./June 1950. 26 T751

19056 ROIG, J. T. La majagua. Tierra Libre (ser.2) 14(9):6. Sept.1950. 8 T443

Hibiscus elatus.

19057 TANGANYIKA. SISAL EXPERIMENTAL STATION, MLINGANO, NGOMENI. Annual report for the year 1948. Dar es Salaam, 1950. 23 p. 73.29 T15

19058 TRINT G., E. Ensayos de cultivo y beneficio del cáñamo de la India en el Departamento de Lambayeque. Vida Agr. [Lima] 27:883-885,887-888. Nov.1950. 9.8 V66

19059 TSYGULEV, V. I. Growing southern hemp without isolation. (In Russian.) Agrobiologiya 1950(5):25-35. Sept./Oct.1950. 20 Ag822

#### Forage Crops and Grasses

19060 AAMODT, O. S. Alfalfa in Argentina. Alfalfa Impr. Conf. Rpt. 12:17. 1950. 60.9 AL2

19061 AAMODT, O. S. Summary reports, progress and objectives in alfalfa investigations in the United States. Alfalfa Impr. Conf. Rpt. 12:5-8. 1950. 60.9 AL2

19062 ABBOTT, J. B. Why grassland farming in the Northeast? New Eng. Homestead 123(22):10-11;(23):11, 18. Nov.25-Dec.9,1950. 6 N442

19063 AKERBERG, E., WINKLER, H., and JARL, F. Vara slattervallar [Our hay fields]. Stockholm,LT:s Förlag,1950. 262 p. 60 Ak3

Culture and nutritive value of forage plants.

19064 ALFALFA IMPROVEMENT CONFERENCE, 12, LETHBRIDGE, CANADA. Report of the twelfth conference, July 31-August 2, 1950, by O. S. Aamodt. n.p.,1950. 78 p. 60.9 AL2

19065 ALLRED, B. W. Practical grassland management. Edited by H. M. Phillips. San Angelo, Texas, Sheep and Goat Raiser Magazine,1950. 323 p. Ref. 60.1 AL5

19066 ANGELL, G. N. Their pastures chop feed costs in half. Wash. Farmer 75:831,859. Nov.16,1950. 6 R151

Pasture management.

19067 ASTAKHOV, I. Comfrey—a forage and honey plant. (In Russian.) Kolkhoz. Proizvodstvo 10(7):37-38. July 1950. 281.8 K83

Culture chiefly.

19068 BAIRD, G. T. Pasture mixtures, seeding and management. Utah. State Agr. Col. Ext. B. 183,rev.,11 p. June 1950. 275.29 U1

19069 BECKER, R. Die geschichtliche entwicklung des weisskleeanbaus in Deutschland. Z. f. Acker- u. Pflanzenbau 93:78-95. Ref. Dec.1950. 18 J825

19070 BENAVIDEZ, C. C. El cultivo del alfalfa en la Pvcia. de Mendoza. Vinos, Viñas y Frutas 45:179-181, 183-184,242-247. (Cont.) Sept.,Nov.1950. 9 Ag89

19071 BERNARD, P. Pour améliorer nos assolements: la luzerne. Monit. Agr. 3(137):1-2. Nov.26, 1950. 14 M744

19072 BERTSCH, M. Ladino, just how good is it? Prairie Farmer, Gen. Ed. 123:1,12,37. Jan.6,1951. 6 P883

19073 BIRD, J. "Catch" insurance for grasses, legumes. Country Gent. 120(12):37,93-94. Dec.1950. 6 C833

Seed treatment.

19074 BISWELL, H. H. Studies of rotation grazing in the Southeast. J. Range Mangt. 4:52-55. Jan.1951. 60.18 J82

19075 BOELCKE, O., and ECHEVERRIA, I. Valor y comportamiento de mezclas forrajeras comerciales para praderas permanentes en la región de Pergamino. Pergamino. Estac. Expt. P. 26,50 p. Ref. 102.5 P41

19076 BOND, J. Plots to prove the f.s.d. value of pastures. Veldtrust 11(9):26-27,29. Sept.1950. 56.8 V54

19077 BOSMAN, F. H. Some facts for the lucerne grower. Transkeian Ter. Agr. Dept. Umcebi Womlimi Nomfuyi 27(2):46-47. May 1950. 24 T684

19078 BOSTWICK, R. D. KR bluestem [Andropogon] makes rapid gains. Sowest. Crop & Stock 4(12):14,67. Dec.1950. 6 So8942

19079 BRAUN, O. Alfalfa y gramíneas. Campo [La Paz] 4(33):26-28. Jan.1950. 9.1 C15

Culture.

19080 BUTLER, E. Iowa Park, Wichita Valley's experiment station. Prog. Farmer, Tex. Ed. 65(12):16,88. Dec.1950. 6 T311

Work of the station testing grasses and legumes.

19081 CARLSON, J. W. Insects in relation to alfalfa seed setting. Alfalfa Impr. Conf. Rpt. 12:54-55. 1950. 60.9 AL2

19082 CHAPMAN, L., LAW, A. G., and MORRISON, K. J. Pasture management. Wash. State Col. Ext. B. 435,12 p. Dec.1950. 275.29 W27P

19083 CHERKASOVA, V. A. Methods for accelerated development of meadows and pastures on valley slopes. (In Russian.) Sovet. Agron. 8(9):45-52. Sept.1950. 20 So84

19084 CHISHOLM, F. A. New and improved cultivated grasses. Cow Country 78(6):6,16,18. Dec.15,1950. 49 C83

19085 CLEM, G. Don't overlook smooth brome grass. Purdue Agr. 42(3):5. Dec.1950. 6 P97

19086 CORKILL, L. Pedigree strains of pasture plants. New Zeal. Dept. Sci. & Indus. Res. Grasslands Div. Grasslands B. 3:5-15. July 1950. 60.9 N48

19087 COVINGTON, J. R. Fescue-Ladino gives good return on low, wet land in Tennessee. Crops & Soils 3(4): 22-24. Jan.1951. 6 W55

19088 DAVIDSON, H. R. Successful lucerne growing. Farmer & Stock-Breeder 64:3276-3277. Dec.19,1950. 10 F228

19089 DAVIES, W. Quality in grassland. Nature [London] 166:760-761. Nov.4,1950. 472 N21



- 19090 DESSUREAUX, L. Variation in the seed setting ability of Ladino white colver. *Sci. Agr.* 30:509-517. Dec.1950. 7 Sci2
- 19091 DILLON, M. Grassland improvement. *Agr. Ireland* 7:268-269. Dec.1950. 10.5 Ag8
- 19092 DORAN, C. W. Lick the spring range shortage with reseeded grasses. *Rec. Stockman, Annu. Ed.* (1951) 61(52):58-59. Dec.28,1950. 49 D43
- 19093 DOUGLAS, L. H. The case of Wyethia. *Natl. Wool Grower* 40(12):40. Dec.1950. 45.8 N21N
- Grazing by sheep as control measure.
- 19094 ELLIS, T. O. A preliminary survey of the yields, composition and fertilizer responses of fodder grasses. *Jamaica.Dept. Agr. B. (n.s.)*41,33 p. 1950. 8 J227B
- 19095 ELLIS, T. O., and BURROWES, W. D. Results of experiments on yield, composition and responses to fertilizers of napier grass and guinea grass in Jamaica. *Jamaica.Dept. Agr. B. (n.s.)*43,42 p. Ref. 1950. 8 J227B
- 19096 FISHER, C. E., and MARION, P. T. Continuous and rotation grazing on buffalo and tobosa grassland. *J. Range Mangt.* 4:48-51. Jan.1951. 60.18 J82
- 19097 GALGAN, M. W., ENSMINGER, M. E., and HAM, W. E. Improved pastures for light horses. *Wash. Agr. Expt. Sta. C.* 116,3 p. Sept.1950. 100 W27S
- 19098 GAZZERA, E. Artificial meadows. (In Italian.) *Lotte Contadine* 1:5-6. July 5,1950. 16 L91
- 19099 GEISMAN, H. M. It takes the youngsters to know the grasses. *Rec. Stockman, Annu. Ed.* (1951)61(52):249,252-253. Dec.28,1950. 49 D43
- Contest of Colorado school children.
- 19100 GERBELLA M., E., and CASTILLO A., J. B. "El lupino" una leguminosa forrajera y de abono verde para los Andes. *Agr. Venezol.* 15(144):32-33. July 1950. 9.95 Ag8
- 19101 GERY, J. G. Cultivo de la alfalfa en terrenos eriazos de reciente irrigación. *Vida Agr. [Lima]* 27:715-718. Sept.1950. 9.8 V66
- 19102 GHISLENI, P. L. Considerations on the planting of artificial pastures. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:282-283. Oct.31,1950. 16 C72
- 19103 GLYNN, R. V. Cut feeding costs—use pastures. *Crops & Soils* 3(3):16-17. Dec.1950. 6 W55
- Pasture management.
- 19104 GODDARD, D. A. From-the-farm story of three-year effort on 75 acres. *Dairy Farmer [Ipswich]* 23(12):22-23,32. Dec.1950. 44.8 D1414
- Ley management and costs and returns on a dairy farm.
- 19105 GRABER, L. F. A century of alfalfa culture in America. *Crops & Soils* 3(3):10-13,29,34. Dec.1950. 6 W55
- 19106 GROOT, H. DE., and WILLEMSSEN, W. Computation of yields from grasslands. (In Dutch.) *Netherlands. Landbouwlichtingsdienst. Maandbl.* 7:429-433. Oct.1950. 12 N383M
- 19107 GROS, A. Les cultures fourragères dérobées. *Reconstruire* 232:5. Dec.22,1950. 14 R24
- France.
- 19108 HAARER, A. E. Grasses and grazing problems of East Africa. *World Crops* 3:8-10,26. Ref. Jan.1951. 281.8 W892
- 19109 HAFENRICHTER, A. L., MULLEN, L. A., and BROWN, R. L. Grasses and legumes for the Pacific Northwest. *Seed World* 67(11):16,18,23. Dec.1,1950. 61.8 Se52
- 19110 HANSON, R. G. Some factors influencing the rooting of red clover cuttings. *Agron. J.* 42:614-615. Dec.1950. 4 Am34P
- 19111 HARLAN, J. R. New grasses for old ranges. *J. Range Mangt.* 4:16-18. Jan.1951. 60.18 J82
- 19112 HARTWIG, H. B. Picture aids to grass identification, v. 1. Ithaca,1950. unpagd. 60.1 H252
- 19113 HARVEY, C., and POTTS, R. C. Crimson clover variety test on Lufkin fine sandy loam at College Station, 1949-50. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1295, 1 p. Nov.25,1950. 100 T31P
- 19114 HEYNE, E. G. Goatgrass [*Aegilops cylindrica*] seed used for livestock feed. *Agron. J.* 42:615-616. Dec.1950. 4 Am34P
- 19115 HODGSON, H. J. Alfalfa investigations in Alaska. *Alfalfa Impr. Conf. Rpt.* 12:68. 1950. 60.9 AL2
- 19116 HODSON, E. A. Dallis grass [*Paspalum dilatatum*]. *Ark. Farmer* 53:6. Jan.1951. 6 Ar42
- 19117 HUBBARD, W. A. Rotational grazing studies in western Canada. *J. Range Mangt.* 4:25-29. Jan.1951. 60.18 J82
- 19118 HUITEMA, H. The study, meaning and use of grasses and the ground whereon they grow. (In Dutch.) *Hemera Zoa* 57:502-521. Ref. Aug.1950. 41.8 V51
- English summary.
- Includes Index of plant names, by C. M. de Froideville.
- 19119 HURD, M. A. Management of native grass pastures. *Ranchman* 10(8):25-27. Dec.1950. 49 R15
- 19120 HYDER, D. N., and SAWYER, W. A. Rotation-deferred grazing as compared to season-long grazing on sagebrush-bunchgrass ranges in Oregon. *J. Range Mangt.* 4:30-34. Jan.1951. 60.18 J82
- Artemisia tridentata* and *Agropyron spicatum*.
- 19121 IVERSEN, K. The culture of alfalfa seed. (In Danish.) *Dansk Frøavl* 33:243-245. Dec.1,1950. 61.8 D23
- 19122 JACKOBS, J. A. The influence of cutting schedule on the yield of hay and vigor of Ladak alfalfa in the Yakima Valley. *Wash. Agr. Expt. Sta. C.* 106,3 p. Aug.18,1950. 100 W27S
- 19123 JACKOBS, J. A. The influence of spring-clipping, interval between cuttings, and date of last cutting on alfalfa yields in the Yakima Valley. *Agron. J.* 42:594-597. Dec.1950. 4 Am34P
- 19124 JACKSON, N. Green pastures the year around. Twelve month grazing is fast becoming a reality in the Southwest. *Rec. Stockman, Annu. Ed.* (1951)61(52):104, 107. Dec.28,1950. 49 D43
- Cool season grasses.
- 19125 JOHNSON, H. A. Sericea Lespedeza and big trefoil lead in range test. *Miss. Farm Res. [Miss. Sta.]* 13(11):1,8. Nov.1950. 100 M69M
- 19126 JOHNSTONE-WALLACE, D. B. Grass and the grazing animal; a study of plant and beast 3. Strains, soil and techniques. *Farmers Wk. [London]* 33(22):63,65,67. Dec.1,1950. 10 F2226
- 19127 JONES, L. G. Increased production of alfalfa seed through honey-bee pollination. *Alfalfa Impr. Conf. Rpt.* 12:38-40. 1950. 60.9 AL2
- 19128 KAUTER, A. Weidewirtschaft und weidetechnik. *Grüne* 78:1219-1233. Nov.10,1950. 17 Sch9
- Switzerland.
- 19129 KLITSCH, C., and MICHAEL, G. Stiefkld grünland. *Deut. Landwirt. mit Mitt. der Deut. Landwirtsgesell.* 1:134-135. Nov.1950. 18 D4822
- 19130 KOBLET, R. Über die anlage von kunstwiesen in hohen lagen. *Landwirt. Jahrb. der Schweiz.* 64:621-668. Ref. 1950. 17 L23
- 19131 LAINE, T. Measures for the improvement of burned-over pasture. (In Swedish.) *Forsk.- och Försöksresultat* 2:46-48. Sept.30,1950. 20 F77
- 19132 LEMMON, P. E., HAFENRICHTER, A. L., and MADSON, B. A. Cucamonga brome, a new grass for covercropping. *Calif. Agr. Expt. Sta. C.* 401,7 p. Nov.1950. 100 C12S
- 19133 LIEROW, Le plan de production fourragère; base fondamentale de l'exploitation agricole. *B. des Engrais* 22:136-138. Sept.1950. 57.8 B87
- 19134 LINDLEY, C. E., ENSMINGER, M. E., and SCHNEIDER, B. H. Grass, grass-alfalfa mixtures, and fertilizer treatments for beef production in eastern Washington. *Wash. Agr. Expt. Sta. C.* 111,5 p. Sept.1950. 100 W27S
- 19135 MCILVAIN, E. H., and SAVAGE, D. A. Eight-year comparisons of continuous and rotational grazing on the Southern Plains experimental range. *J. Range Mangt.* 4:42-47. Jan.1951. 60.18 J82
- 19136 MCKENZIE, R. E. More hay with reed canary. *Canad. Cattlemen* 13(12):7. Dec.1950. 49 C16
- 19137 MCMAHON, H. The pre-selection of locations in which alfalfa seed can be profitably produced in northern areas of western Canada. *Alfalfa Impr. Conf. Rpt.* 12:36-37. 1950. 60.9 AL2
- 19138 MEIJERS, P. G. The cultivation of alfalfa. (In Dutch.) *Groninger Landtbl.* 28(42):4;(46):9;(48):7. (Concl.) Oct.28,Nov.25,Dec.9,1950. 12 G892
- 19139 MOJA, A. An important forage plant in secondary culture: sugar beet. (In Italian.) *Humus* 6(10):3-5. Oct.1950. 16 H88
- 19140 MOOR-PANKELOW, A. Kulturmassnahmen zur förderung des grünlandes. *Deut. Landwirt. mit Mitt. der Deut. Landwirtsgesell.* 1:136-140. Nov.1950. 18 D4822
- 19141 MOSTERT, W. C. Woolly finger grass [*Digitaria pentzi*] as a pasture crop. *Farmer & Countryman* 39(39):8-9. Sept.29,1950. 24 F227
- In South Africa.



- 19142 MURPHY, R. P. Brief summary of discussion on plant breeding during the Twelfth Alfalfa Improvement Conference. *Alfalfa Impr. Conf. Rpt.* 12:69-71. 1950. 60.9 AL2
- 19143 NIXON, W. M. *Sericea* does well when handled right. *Prog. Farmer, Tex. Ed.* 65(12):18. Dec.1950. 6 T311
- 19144 OVCHINNIKOV, B. F. Mixture of sainfoin in the clover and alfalfa stand as a factor in seed productivity of these crops. (In Russian.) *Vsesoŭzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(11):23-24. 1950. 20 Ak1  
As honey plant to attract bees for pollination.
- 19145 PACHECO GARMENDIA, H. A. Aspectos forrajeros de la explotación ganadera de la Montana. *Vida Agr. [Lima]* 27:823,825,827-830. Oct.1950. 9.8 V66  
Discusses various forage plants in Peru.
- 19146 PALMER, C. B. Growing and making hay. *Westralian Farmers Co-op Gaz.* 19:263,265-266. Oct. 1950. 280.28 W522
- 19147 PATERSON, R. Problems of management. 7. Are maiden seeds worthwhile? *Farmers Wk. [London]* 33(24):57. Dec.15,1950. 10 F2226  
Grasslands.
- 19148 PIETERS, A. J., and others. *Sericea* and other perennial lespedezas for forage and soil conservation. *U. S. D. A. C.* 863,48 p. Ref. Nov.1950. 1 Ag84C  
P. R. Henson, W. E. Adams, and A. P. Barnett, joint authors.  
Revision of and supersedes Circular 534.
- 19149 POTTS, R. C. In the search for year-round grazing greener pastures hinge largely on good management. *Sowest. Crop & Stock* 4(12):35. Dec.1950. 6 So8942
- 19150 RAMENSKII, L. Problems of classification, typification and description of pastures and meadows during their evaluation. (In Russian.) *Bot. Zhur.* 35:254-262. May/June 1950. 451 R923
- 19151 RECHENTHIN, C. A. Range grasses of the Southwest; *Triodia* and pappusgrass. *Cattleman* 37(8):24, 58-61. Jan.1951. 49 C29
- 19152 RICH, L. H., and others. Efficiency studies of Utah dairy pastures. *Utah. State Agr. Col. Ext. B.* 188, 24 p. Jan.1950. 275.29 U11  
A. F. Bracken, W. H. Bennett, and G. T. Baird, joint authors.
- 19153 ROCHA, G. L. DA. Legumes for the State of São Paulo - plants which can substitute for alfalfa in the production of hay. (In Portuguese.) *Rev. dos Criadores* 21(8):32-34. Aug.1950. 43.8 R32
- 19154 ROGLER, G. A. Twenty-five year comparison of continuous and rotation grazing in the Northern Plains. *J. Range Mangt.* 4:35-41. Jan.1951. 60.18 J82
- 19155 RUMMELL, L. L. Raise 50% more feed. *Breeder's Gaz.* 116:12. Jan.1951. 49 B74
- 19156 SACCO, P. A quite possible compromise; pasture and woods. (In Italian.) *Allevatore* 6(41):7. Oct.15,1950. 49 AL55
- 19157 SACHS, E. Die winterwicke im futter- und körnerbau. *Saatgut-Wirtsch.* 2:178-180. Aug.1950. 61.8 Sa1
- 19158 SAGGERS, C. T. E. Albany Agricultural and Horticultural Society pasture and meadow hay competitions, 1949-50. *West. Austral. Dept. Agr. J. (ser.2)* 27: 150-154. June 1950. 23 W52J
- 19159 SAMPSON, A. W. A symposium on rotation grazing in North America. *J. Range Mangt.* 4:19-24. Ref. Jan.1951. 60.18 J82
- 19160 SCHEPERS, C. P. The importance of grassland for livestock food supply. (In Dutch.) *Nieuwe Veld-bode* 17:136-137. Nov.23,1950. 12 V542N
- 19161 SEWELL, T. G. Improvement of tussock grassland. *New Zeal. J. Agr.* 81:293,295,297,299. Oct. 1950. 23 N48J  
Methods used in sowing cocksfoot and the results obtained.
- 19162 SHAIN, S. S. Travosmesi dlia polevykh sevooborotov [Mixtures of legumes and grasses for field crop rotations]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 55 p. 60 Sh1T
- 19163 SHAIN, S. S. Utilization of hard seeds of red clover for increasing the stability of its stand. (In Russian.) *Sovet. Agron.* 8(9):61-67. Sept.1950. 20 So84
- 19164 SHAPKIN, D. N. Silage crops [sorghum, corn, and sunflower] under conditions of Turkmenistan. (In Russian.) *Sovet. Agron.* 8(9):94-96. Sept.1950. 20 So84
- 19165 SHENNIKOV, A. P. V. R. Vil'iams-founder of meadow science and of scientific meadow culture. (In Russian.) *Bot. Zhur.* 35:247-253. May/June 1950. 451 R923
- 19166 SINAGIN, I. I. Sakharnaya svekla - tsennaya kormovaya kul'tura [Sugar beets—a valuable forage crop]. *Moskva, Moskovskii Rabochii*, 1950. 30 p. 66 Si62S
- 19167 SKAARE, S. Lucerne. Observations on culture and feed value. (In Norwegian.) *Tidsskr. f. det Norske Landbr.* 57:219-226. July/Aug.1950. 11 T433
- 19168 SLIJCKEN, A. VAN, and ANDRIES, A. Grassland; enkele richtlijnen in verband met het weidevraagstuk [Grassland; some advice in connection with the pasture problem]. *Lokeren*, 1949. 21 p. 60.1 SL3
- 19169 SMELOV, S. P. Nauchnye osnovy lugovodstva v svete ucheniya V. R. Vil'iamsa [Scientific principles of meadow cultivation in the light of V. R. Vil'iams's teaching]. *Moskva*, 1950. 27 p. 60.1 Sm3N
- 19170 SMITH, D., and GRABER, L. F. Performance of regional strains of Ranger alfalfa. *Wis. Agr. Expt. Sta. Res. B.* 171,13 p. Sept.1950. 100 W75
- 19171 SOROKINA, A. K. Nash opyt vyrashchivaniya vysokikh urozhaev semjan klevvera [Our practices in growing high yields of clover seeds]. *Rfazan', Stalinskoe Znamya*, 1950. 32 p. 60.3 So63
- 19172 ŠOSTARIĆ-PISAČIĆ, K. Forage kale. (Sum.) *Zagreb. Inst. Res. Plant Prod. [P.]* 7,8 p. 1949. 21.5 Z15
- 19173 SPRAGUE, V. G., and GARBER, R. J. Effect of time and height of cutting and nitrogen fertilization on the persistence of the legume and production of orchard grass-ladino and brome-grass-ladino associations. *Agron. J.* 42:586-593. Dec.1950. 4 Am34P
- 19174 STANFORD, E. H. Progress report on cytogenetics of alfalfa. *Alfalfa Impr. Conf. Rpt.* 12:14-15. 1950. 60.9 AL2
- 19175 STATEN, H. W. Oklahoma needs more grass on land unfit for crops. *Farmer-Stockman* 53(12):16. Dec.1950. 6 Ok45
- 19176 STEVENSON, T. M. Summary report of progress and objectives in alfalfa improvement work now in progress in Canada. *Alfalfa Impr. Conf. Rpt.* 12:9-13. 1950. 60.9 AL2
- 19177 STODDART, L. A., and COOK, C. W. What species of grass for range seeding? *Farm & Home Sci. [Utah Sta.]* 11:72-73,84. Dec.1950. 100 Ut1F
- 19178 TARKOVSKII, M. I. Kak poluchit' vysokii urozhai sena mnogoletnikh i odnoletnikh trav. [How to obtain a high crop of hay from perennial and annual grasses and legumes]. *Moskva*, 1950. 13 p. 60 T17
- 19179 THOMPSON, W. R. Best pastures in history. *Prog. Farmer, Miss.-Ark.-La. Ed.* 65(12):16. Dec.1950. 6 So81  
Pasture management.
- 19180 TISDALE, E. W. Grazing of forest lands in interior British Columbia. *J. Forestry* 48:856-860. Dec. 1950. 99.8 F768
- 19181 TODD, F. E. Problems in the use of honey bee pollinators in alfalfa. *Alfalfa Impr. Conf. Rpt.* 12:41-46. 1950. 60.9 AL2
- 19182 TREPP, W. Ein beitrag zu bonitierungs-methoden von alpweiden. *Schweiz. Landwirt. Monatsh.* 28: 366-371. Ref. Nov.20,1950. 17 Sch93
- 19183 TREW, E. M., JR. Alfalfas and sweet clovers are our best legumes. *Tex. Farming & Citric.* 27(6):8-9. Dec.1950. 80 T31
- 19184 TROLL, H. J. Der stand der züchtung der gelben süßslupine. *Deut. Landwirt. mit Mitt. der Deut. Landwirtsgesell.* 1:184-187. Dec.1950. 18 D4822
- 19185 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Grass farming in dairy land, by R. Hodgson, H. Haas, E. Ballweg, and M. Bliss. *Washington*, 1950. 5 p. 1.914 R2R11
- 19186 UTAH. STATE AGRICULTURAL COLLEGE. EXTENSION SERV. What grass means to Utah. *Utah. State Agr. Col. Ext. B.* 210,6 p.-folder. June 1950. 275.29 U11
- 19187 VILLAMIZAR JARAMILLO, A. El pasto elefante. *Rev. Nac. de Agr. [Bogotá]* 44(545):18-21. Sept.1950. 9.4 R32
- 19188 WÄLSTEDT, L. Where do sheep graze in the forest? (In Swedish.) *Svenska Skogsvårdsför. Tidsskr.* 48:315-320. 1950. 99.8 Sk5
- 19189 WASSER, C. H. "Tailor made" grasses increase range production. *Rec. Stockman, Annu. Ed.* (1951)61(52):92,94-95. Dec.28,1950. 49 D43



- 19190 WATKINS, J. M., and CHÁVEZ VIAUD, A. Forraje para la estación seca en El Salvador. Cent. Nac. de Agron. B. Téc. 4,16 p. June 1950. 8 Sa54B  
Botanical description of forage plants and silage and hay making.
- 19191 WENTWORTH, E. N. Who says you can't stretch grass? Rec. Stockman, Annu. Ed. (1951)61(52): 138,140. Dec.28,1950. 49 D43  
Range management.
- 19192 WHITE, H. H. Talent alfalfa helping change agriculture in southern Oregon. Oreg. Dept. Agr. Agr. B. 168:17-18. Dec.1950. 2 Or3
- 19193 WILLIAMS, W. R. Leveling, reseeding mountain range increases hay fourfold. West. Farm Life 53 (Annu. Livestock Rev. 1951):136,138. Jan.1,1951. 6 R153
- 19194 YOUNG, V. A. Summer range management course on wheels for county agricultural agents in Texas. J. Range Managt. 4:4-10. Jan.1951. 60.18 J82

### Oil Crops

- 19195 ANDERSSON, G. Svalöf Matador winter rape. (In Swedish.) Sveriges Utsädesför. Tidskr. 60:380-384. 1950. 61.9 Sv23  
English summary.
- 19196 ANDERSSON, G. Züchtung, anbau und wirtschaftlichkeit des anbaues von ölpflanzen in Schweden. Fette u. Seifen 52:665-670. Nov.1950. 384 C422
- 19197 BLANCHARD, Le soja son intérêt, ses possibilités culturales en Algérie. Rev. Internatl. des Prod. Colon. 25:219,221,223-225. Ref. Dec.1950. 286.8 R326  
Culture and utilization.
- 19198 BUNTING, A. H. Technical aspects of the East African groundnuts organization. Ann. Appl. Biol. 37:699-704. Dec.1950. 442.8 An72
- 19199 CANO, J. M., and LOPEZ, M. El ajonjolí y su cultivo. Cent. Nac. de Agron. C. Agr. 12,4 p. July 1950. 8 Sa54C
- 19200 HOLMBERG, S. Soybean trials in Sweden. Soybean Digest 11(2):13. Dec.1950. 60.38 So9
- 19201 ISIP, I. N. Autumn sowing of sunflower with freshly-harvested seeds. (In Russian.) Sovet. Agron. 8 (9):90-93. Sept.1950. 20 So84
- 19202 JACKSON, N. Safflower for "leave-out" acres [Great Plains]. Sowest. Crop & Stock 4(12):10,71. Dec. 1950. 6 So8942
- 19203 JUL R., G. Maravilla. Agraria 15(416):10-12,14;(417):10-12. Sept.-Oct.1950. 9.3 Ag85
- 19204 MÄNSSON, E. Wintering of the fall rape 1949-50. (In Swedish.) Lantmannen 34:788-790. Oct.14,1950. 11 L234
- 19205 MARKLEY, K. S., ed. Soybeans and soybean products, v.1. N. Y., Interscience, 1950. 540 p. 60.3 M34
- 19206 MORSE, W. J. History of soybean production. In Markley, K. S., ed. Soybeans and soybean products, v.1, p.3-59. Ref. N. Y., Interscience, 1950. 60.3 M34
- 19207 PUERTAS FABILA, J. L., and HERNÁNDEZ F., A. El cultivo de la soya en México. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:28-29. Nov.1950. 8 M577Fm
- 19208 VALLE, O. The vine crop of winter rape. (In Swedish.) Forsk.- och Försöksresultat 2:41-42. Sept.30, 1950. 20 F77  
Feed value and effect of fall harvesting of vine on yield.
- 19209 WRIGHT, J. D. Growing linseed. New Zeal. J. Agr. 81:441,443-444. Nov.1950. 23 N48J  
Culture and varieties, New Zealand.

### Sugar Crops

- 19210 CALMA, V. C. A comparison of the field performance of the College 39 with three standard varieties of sugar cane. Sugar News 26:466-468. Sept.1950. 65.8 Su36  
Philippine Republic.
- 19211 CALMA, V. C., and RAMOS, F. V. An outstanding introduced variety of sugar cane. Philippine Agr. 33:190-196. Jan./Mar.1950. 25 P542
- 19212 ELLERTON, S. Results of a sugar beet seed yield experiment at Woodham Mortimer, Essex, in 1950. Essex Farmers' J. 29(10):19-20. Dec.1950. 10 Es72
- 19213 GILCREAST, R. M. Sugar beet production in the Red River Valley. N. Dak. Agr. Expt. Sta. B. 363, 48 p. Dec.1950. 100 N813
- 19214 GORDON, A. The march of sugarcane varieties in the La Carlota District. Sugar News 26:469-471. Sept.1950. 65.8 Su36  
Philippine Republic.

- 19215 HANSON, O. Sugar beet culture at Gotland. (In Swedish.) Lantmannen 34:931. Dec.2,1950. 11 L234
- 19216 HAWAIIAN SUGAR TECHNOLOGISTS. Reports, ninth annual meeting, November 13-16, 1950. Honolulu, 1950. 143 p. 65.9 H317
- 19217 HOLLOWAY, T. E. "Audubon Park"—an early Sugar Experiment Station. Sugar B. 29:72-74. Dec.1, 1950.. 65.9 Am32
- 19218 LARSEN, D. W. New developments on the Island of Hawaii. Hawaii. Sugar Technol. Rpt. 9:3-9. 1950. 65.9 H317
- 19219 LIVINGSTON, W. H. Tests comparing burned with unburned cane. Hawaii. Sugar Technol. Rpt. 9:9-13. 1950. 65.9 H317
- 19220 LÜDECKE, H. Ergebnisse von keimprüfungen verschiedener proben monogermisamen unter berücksichtigung der einzelnen siebgrößen. Zucker 3:366-368. Sept.1,1950. 65.8 Z82  
Sugar beets.
- 19221 MACQUEEN, R. W. Kauai varieties—1950. Hawaii. Sugar Technol. Rpt. 9:20-22. 1950. 65.9 H317
- 19222 MARTIN, J. P. Germination of sugar cane cuttings. Hawaii. Sugar Technol. Rpt. 9:53-58. 1950. 65.9 H317
- 19223 MENDIOLA, N. B. How the Government Sugar Experiment Station of Formosa has helped that country's sugarcane industry. Sugar News 26:458-460. Sept.1950. 65.8 Su36  
Philippine Republic.
- 19224 MOIR, W. W. G. The Australian sugar industry and the Seventh Congress of the International Society of Sugar Cane Technologists. Hawaii. Sugar Technol. Rpt. 9:41-46. 1950. 65.9 H317
- 19225 NAQUIN, W. P., JR. New developments on the Island of Oahu. Hawaii. Sugar Technol. Rpt. 9:27-31. 1950. 65.9 H317
- 19226 PASTOR BOGGIANO, M., and GONZÁLEZ VELASCO, J. La edad de corte de la caña de azúcar en el Valle de Zaña en relación con factores mesológicos. Agronomía [Lima] 15(63):13-20. Sept./Oct.1950. 9.8 Ag83
- 19227 PRATT, J. H. History of the Hawaiian Sugar Technologists (and its parent organizations). Hawaii. Sugar Technol. Rpt. 9:126-132. 1950. 65.9 H317
- 19228 SAVAGE, R. H. New developments on the Island of Maui. Hawaii. Sugar Technol. Rpt. 9:31-40. 1950. 65.9 H317  
Contributions by N. Webster, E. A. Walsh, W. L. Doty, and H. H. Hall.
- 19229 USHAKOV, A. F. For well-timed harvesting of sugar beets without losses. (In Russian.) Sovet. Agron. 8(9):27-36. Sept.1950. 20 So84
- 19230 VAN DRESER, L. M. New developments on the Island of Kauai. Hawaii. Sugar Technol. Rpt. 9:13-16. 1950. 65.9 H317

### Tobacco

- 19231 BENEYTO SANCHEZ, R. El cultivo y el curado del tabaco en España. Almanaque Agr. Ceres 1951: 265-283. 1950. 15 AL6
- 19232 CASTILLA, D. DE. El cultivo del tabaco en España. Almanaque Agr. Ceres 1951:224-248. 1950. 15 AL6
- 19233 COSTA, G. DALLA. Cultivation of tobacco. (In Italian.) Cam. di Com. Indus. e Agr. Vicenza. Not. Econ. 5(18):13-14. Sept.16,1950. 287 V662
- 19234 GILMORE, L. E. Tobacco research in agronomy at Ottawa. Canada. Expt. Farms. Tobacco Div. Lighter 20(4):1. Nov.1950. 286.89 C16
- 19235 GONZÁLEZ PADILLA, A. G. Cultivo del tabaco tipo Virginia. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(14):2-17. Aug.1950. 9 Ar35
- 19236 HOFFMANN, C. DE. Amelioration du tabac par les cultivateurs. Rev. Internatl. des Tabacs 25:200-208. Nov.1950. 69.8 R324
- 19237 JOGLAR-RODRIGUEZ, F. Problemas de la siembra del tabaco. Lucha 2(16):7,13. Oct.1950. 280.28 L96
- 19238 JOGLAR RODRIGUEZ, F. La producción de plantitas (semillas) de tabaco. Lucha 2(17):21-22. Nov. 1950. 280.28 L96
- 19239 KINCAID, R. R. Technique in "Tobacco Valley", successful efforts of shadegrown leaf industry described. U. S. Tobacco J. 154(26):8,96-97. Dec.23, 1950. 286.89 Un3  
Connecticut Valley.



- 19240 LE PAGE, M. H. C. Potgietersrust Co-operative Water Conservation Plan: tobacco growers help themselves. Veldtrust 11(8):2-5. Aug.1950. 56.8 V54
- 19241 MARTIN, J. A. Aromatic tobacco comes of age. Agrarian 10:8-9,30. Nov.1950. 276.8 Ag8 Culture.
- 19242 MAURITIUS. TOBACCO BOARD. Report on the operations of the Tobacco Board and the Tobacco Warehouse, year ended 30th June, 1950. Port-Louis, 1950. 23 p. 69.9 M44
- 19243 MOLINARI, E. L'Autriche et la science du tabac. Rev. Internatl. des Tabacs 25:195-196. Nov.1950. 69.8 R324
- 19244 NILSSON, A. S. From the tobacco districts in U. S. A. (In Swedish.) Lantmannen 34:795-796. Oct.14, 1950. 11 L234  
Chiefly on culture.
- 19245 SCHWARTZ, D., and CUZIN, J. Étude quantitative de la croissance du tabac. I. Inst. Expt. du Tabac. Ann. 1:5-29. Ref. May 1950. 69.9 B45
- 19246 SCHWEIZER, J. Scientific promotion of tobacco culture in Indonesia during the last hundred years. (In Dutch.) Econ. Weekbl. v. Indonesië 16:819-820,822-823. Oct.21,1950. 280.8 Ec76
- 19247 TEDALDI, J. La culture des tabacs à cigarettes en Europe en relation aux nécessités et aux caractéristiques de la consommation. Rev. Internatl. des Tabacs 25:173,175,177. Oct.1950. 69.8 R324
- 19248 WOLTZ, W. G. Revolution in the [tobacco] plant bed. Res. & Farming [N. C. Sta.] 9(2):5-6. Autumn 1950. 100 N81R

### HORTICULTURAL CROPS

Includes articles on general horticulture, and on varieties, breeding, cultural practices, and yield.

#### General

- 19249 BRISTOL UNIVERSITY. AGRICULTURAL AND HORTICULTURAL RESEARCH STATION. Annual report, 1949. Bath, 1949. 174 p. 84 B77
- 19250 DAVIS, M. R. Our garden wasn't in the budget. Green Thumb 8(1):18-20. Jan.1951. 80 G82
- 19251 DOORENBOS, J. Opheusden als boomteeltcentrum [Opheusden as a nursery center]. Assen, Van Gorcum, 1950. 87 p. 90.21 D72
- 19252 EHRLE, L. Der verlauf des lehrganges für gärtnerische pflanzenzucht der Landwirtschaftskammer Rheinland in Straelen. Saatgut-Wirtsch. 2:173-174. Aug. 1950. 61.8 Sa1
- 19253 EUE, H. Betrachtungen zur Gartenbauausstellung in Leipzig-Markkleeberg. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:133-134. Nov.1950. 18 D4822
- 19254 FEENSTRA, P. Paths in the allotment garden complex. (In Dutch.) Volkstuin 33:114-115. Oct.1950. 80 V88
- 19255 FILLMORE, R. H. Soil substitutes save shipping weight. Amer. Nurseryman 93(7-8. Jan.1,1951. 80 Am371
- 19256 FINK, V., and FINK, L. We have a personal garden. Gard. & Gard. Chron. 54(8):47-51. Dec.1950. 80 G1632
- 19257 GEERS. What is the significance of the Netherlands General Inspection Service for Arboriculture. (In Dutch.) Volkstuin 33:113-114. Oct.1950. 80 V88
- 19258 GERM, H. Schlechtes saatgut-wie schützen wir uns davor? Gartenbauwirtschaft [Berlin] 1950:224. Oct.10,1950. 80 G1936
- 19259 HÄRTEL, O. Zum kapitel blumentopf. Gart.-Z. Illus. Flora 73:118-119. Oct.1950. 80 G1991
- 19260 HASTINGS, W. R. They're promising, the All-Americans for 1951. Horticulture 29:12-13. Jan. 1951. 80 H787
- 19261 HAYES, W. B. Report of the Department of Horticulture for 1949-50. Allahabad Farmer 24:163-164. Sept.1950. 22 AL5  
Allahabad Agricultural Institute.
- 19262 HENKEL, H. Bedeutung, aufgaben und möglichkeiten der fachberatung für obst- und gemüsebau im rahmen bäuerlicher wirtschaftsberatung. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:128-130. Nov.1950. 18 D4822  
Russian Zone of Germany.
- 19263 ILLINGWORTH, F. Greenhouses in the Antarctic. Gard. Chron. 128:174. Oct.28,1950. 80 G162
- 19264 IOWA STATE HORTICULTURAL SOCIETY. Proceedings of the eighty-fourth annual convention held at Memorial Union Building, Iowa State College, Ames, Iowa, November 16, 17, 18, 1949. Des Moines, 1949. 252 p. 81 Io9
- 19265 KELLY, G. W. They practice what they preach. Green Thumb 8(1):21-23. Jan.1951. 80 G82  
Horticulturists.
- 19266 KLETTE, G. Die deutsche gartenbau-ausstellung in Leipzig-Markkleeberg. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:8-10. Sept.1950. 18 D4822
- 19267 MERFIELD, A. G. Further facts about use of cloches in N.Z. conditions. Orchardist 23(9):11,13-14,17. Oct.1950. 80 Or19
- 19268 MEYER, C. Von den aufgaben des europäischen gartenbaues. Gärtnermeister 53:333-334. Oct.12, 1950. 80 G1939
- 19269 MISSOURI. OFF. OF STATE ENTOMOLOGIST. Certified Missouri nurseries, nursery dealers, greenhouses, strawberry growers, bramble growers, Gladiolus growers, Narcissus growers and sweet potato seed growers 1950-1951. Jefferson City, 1951. 24 p. 225 M694
- 19270 NEUHOFF, O. Der stand der unterlagenanzucht im Bundesgebiet. Deut. Baumsch. 2:210-212. Sept.1,1950. 80 D486  
Fruit.
- 19271 NUBOURGH, Y. L'évolution sociale et économique et ses repercussions sur l'art des jardins. Cour. Hort. 12:605-609. Nov.1950. 80 C834
- 19272 NURSERY & MARKET GARDEN INDUSTRIES' DEVELOPMENT SOCIETY. EXPERIMENTAL AND RESEARCH STATION. Annual report (thirty-fifth year) 1949. Herts, 1950. 103 N93
- 19273 PODHORSKI, I. Capilar apparatus for germinating. (In Croatian.) Sumarski List 74:384-367. Sept./Oct.1950. 99.8 Su6
- 19274 POERCK, R. DE. Les facteurs de la production végétale dans la culture équatoriale vus sous l'angle de l'amélioration. B. Agr. du Congo Belge 41:879-920. Dec.1950. 24 K83
- 19275 PUTZ, A. You'll see garden results much earlier when you get ahead of spring with a coldframe. Gard. & Gard. Chron. 54(8):36-46. Dec.1950. 80 G1632
- 19276 RAVENSTEIN, M. VAN., and SMITS, J. VAN, G., JR. The rehabilitation and modernization of horticulture in the Downs area. (In Dutch.) Groenten en Fruit 6:338. Nov.16,1950. 80 G89
- 19277 SHEWELL-COOPER, W. E. Better pruning [of fruit trees] and better tomatoes. New Health 25(10):16. Dec.1950. 449.8 N45
- 19278 SHEWELL-COOPER, W. E. How to use cloches. Field 196:935. Nov.25,1950. 10 F45
- 19279 SILVEIRA, G. G. DA. The third Garden Week of the "Wenceslao Bello" School of Horticulture. (In Portuguese.) Lavoura 54:28-30. July/Aug.1950. 9.2 L39
- 19280 TIDNAM, F. H. Early garden traditions of Oklahoma. Natl. Gard. 21(11/12):8-9,32-33. Nov./Dec. 1950. 90.32 N21
- 19281 VADE, S. A temps difficiles, jardins économiques. Vie à la Campagne 39:371-372. Nov.1950. 80 V67
- 19282 VAUPELL-OLSEN, J. Travel letter from the U. S. A. (In Danish.) Gart.-Tid. 66:499-500,539. Nov.8, Dec.6,1950. 80 G192  
On plant nurseries in the United States.
- 19283 WIGHT, J. Selling nursery stock. Iowa State Hort. Soc. Trans. 84:103-106. 1949. 81 Io9
- 19284 WILSON, F. C. Getting set for winter in everyman's garden. Gard. & Gard. Chron. 54(8):79-83. Dec. 1950. 80 G1632
- 19285 WLCZKO, H. Aus Neederland, dem niedersten land an der Nordsee! Gärt.-Kur. 5(21):2-3. Nov.1,1950. 80 G1942  
Gardening.
- 19286 YOUNG, P. R. The school garden exhibit. Sch. Gardgram. 1(5),4 p. Sept.1950. 90.41 Sch63

#### Fruits--General

- 19287 BAUMANN, J. Der obstbau und das süßmostgewerbe. Obstbau 69:155-156. (Concl.) Oct.1,1950. 80 Ob73
- 19288 BEER. Zur vermehrung der sorten unserer obstbäume durch stecklinge. Gart.-Z. Illus. Flora 73:129-131. Nov.1950. 80 G1991
- 19289 BORGMAN, H. H. Covering the ground with straw. (In Dutch.) Betuws Tuinbouwbl. 8(16):5-6. Oct.21,1950. 80 B464  
In orchards.



19290 BORISOGLEBSKIĬ, A. D. I. P. Sikora—the oldest experimenter-Michurinite of White Russia. (In Russian.) *Sad i Ogorod* 1950(9):77-78. Sept.1950. 80 Sa13

His achievements in fruit breeding.

19291 CAUWENBERGHE, E. VAN. Le greffage des arbres fruitiers en haute-tige. *Fruit Belge* 18:132-139, 147-155. Sept.-Oct.1950. 80 F9493

19292 CHRIST, E. G. Fall planting fruit trees. *N. J. State Hort. Soc. Hort. News* 31:2312. Nov.1950. 81 N46

19293 COTT, A. E. The orchard of tomorrow. *Iowa State Hort. Soc. Trans.* 84:92-98. 1949. 81 Io9  
Includes discussion.

19294 DAHLMANS, H. Digging up of old orchards. (In Dutch.) *Fruiteelt* 40:778-779. Oct.12,1950. 86 N28

19295 EGGERT, F. P. Fruits for Maine. *Maine Agr. Col. Ext. B.* 403,12 p. Sept.1950. 275.29 M281B

19296 ENGLERT, B. Betriebswirtschaftliche gedanken für den obstbau. *Obstbau* 69:151-152. Oct.1,1950. 80 Ob73

19297 GASHKOVA, O. A. Practical study of Michurinite science in the societies of young fruit growers. (In Russian.) In Shibanov, A. A., comp. *Sbornik statei po voprosam Michurinskoi biologii*, p.201-209. Moskva, Ministerstvo Prosveshcheniia RSFSR, 1950. 442 Sh6S

19298 GNEDCHIK, P. V. On a system of spacing fruit trees. (In Russian.) *Sad i Ogorod* 1950(9):12-16. Sept.1950. 80 Sa13

19299 GORIN, T. I. Luchshie sadovody Stalingradskoi oblasti [Best fruit growers in Stalingrad Region]. *Stalingrad, Obl. Kn.-vo*, 1950. 65 p. 93.28 G67L

19300 GORSHKOV, I. S. Fruit-trees—into the shelterbelts. (In Russian.) *Les i Step'* 2(8):20-23. Aug. 1950. 99.8 L565

19301 HAUVILLE, A. De la meilleure utilisation de la sève des arbres fruitiers en période estivale. *Rev. Hort. de l'Algérie* 54:208-210. June/July 1950. 87 R32

19302 HJELTNES, A. Fruit growing in Rogaland. (In Norwegian.) (Sum.) *Norsk Hagetid.* 66:205-208. Nov. 1/15,1950. 80 N81

19303 JANS, J. Auch in der Zentralschweiz strengt man sich an. *Schweiz. Z. f. Obst- u. Weinbau* 59:484-486. Dec.23,1950. 80 Sch9

19304 JONES, G. O. Pollination service for fruit growers. *Iowa State Hort. Soc. Trans.* 84:85-89. 1949. 81 Io9

Includes discussion.

19305 KARNATZ, H. Einige hinweise für die samen-gewinnung bei kernobst. *Obstbau* 69:140. Sept.1,1950. 80 Ob73

19306 KISELEV, A. B. An orchard on the shore of Amur River. (In Russian.) *Sad i Ogorod* 1950(9):74. Sept.1950. 80 Sa13

19307 KWAZI, S. N. How to establish an orchard. *Transkeian Ter. Agr. Dept. Umcebisi Womlimi Nomfuyi* 27(3):35. Aug.1950. 24 T684

19308 LESLIE, W. R. Hardy varieties of fruit. *Iowa State Hort. Soc. Trans.* 84:80-84. 1949. 81 Io9  
Canada.

19309 LOOSE, H. Die überbrückung—eine verges-sene kunst. *Obstbau* 69:155. Oct.1,1950. 80 Ob73

19310 LOUVAIN, P. Quels arbres planter? *Réveil Agr.* 59:340-341. Nov.15,1950. 14 R322

19311 NICHOLS, H. E. Fruit displays and exhibits. *Iowa State Hort. Soc. Trans.* 84:69-76. 1949. 81 Io9  
Includes discussion.

19312 OLAFSON, G., and EINSET, O. Fruit culture—meteorology. (In Norwegian.) *Norsk Hagetid* 66:231-232. Dec.1,1950. 80 N81

19313 OLDFIELD, J. Plant fruit trees. *Town & Country Planning* 18:413-415. Oct.1950. 98.58 T66

19314 OVERLEY, F. L., and BULLOCK, R. M. Fruit production and beekeeping. *Iowa State Hort. Soc. Trans.* 84:218-221. 1949. 81 Io9

19315 PASTORINI, F. M. Possibilities of fruit culture in the Turin hills. (In Italian.) *Cron. Econ.* 92:12-14. Oct.30,1950. 280.8 C882

19316 PICKETT, J. T. The fruit areas of America: California's central valley. *Amer. Fruit Grower* 70(12): 12-13,22-23. Dec.1950. 80 Am85

19317 PIQUER, G. Le climat et les arbres fruitiers. *Fruit Belge* 18:141-143,157-159. Sept.-Oct.1950. 80 F9493

19318 PRIIMAK, A. K. Toward a high agricultural technique in the orchards of Kuban Area. (In Russian.) *Sad i Ogorod* 1950(9):16-19. Sept.1950. 80 Sa13

19319 RATH. Ernte und einlagerung des spätobstes. *Gart.-Z. Illus. Flora* 73:113-116. Oct.1950. 80 G1991  
Germany.

19320 ROBERT, E. Methode de mise à fruit: la taille, l'arcure, et l'oblique. *Cour. Hort.* 12:499-500. Sept.1950. 80 C834

19321 ROSAND, J. Pour réussir le bouturage. *Réveil Agr.* 59:337. Nov.15,1950. 14 R322  
Fruit.

19322 SCHLENZ, P. Erscheinungslehre (phaenologie) und messen der erscheinungen (phaenometrie) im dienste des praktischen obstbaues. *Obstbau* 69:135-137. Sept.1, 1950. 80 Ob73

19323 SCHMID, G. Beschleunigte reduktion und säuberung der baumbestände. *Schweiz. Z. f. Obst- u. Weinbau* 59:476-479. Dec.23,1950. 80 Sch9

19324 SCHMID, O. Verbesserung der betriebsgrund-lagen im fricktalischen kirschenbau. *Schweiz. Z. f. Obst- u. Weinbau* 59:490-492. Dec.23,1950. 80 Sch9

19325 SEITZER. Nützet den segen! *Obstbau* 69:130-131. Sept.1,1950. 80 Ob73  
Württemberg fruit harvest.

19326 SIERRA L., F. Fruticultura: conocimientos generales sobre frutales. *Soc. Antioqueña de Agr. B. Agr.* 364/369:3156-3157. (Cont.) Dec.1949/May 1950. 9.4 Sol  
Pruning.

19327 SMITS, J. Problems and observations in 1950. (In Dutch.) *Fruiteelt* 40:957. Dec.14,1950. 86 N28  
Fruit culture.

19328 SOUSA, J. S. I. DE. The fruit problem of the day: pruning of fruit trees. (In Portuguese.) *Chacaras e Quintais* 82:559-561. Nov.15,1950. 9.2 C34

19329 SPINDLER. Krise im obstbau? *Obstbau* 69: 129-130. Sept.1,1950. 80 Ob73  
Germany.

19330 SPRENG, H. Hindernisse auf dem weg zum qualitätsobstbau. *Schweiz. Z. f. Obst- u. Weinbau* 59:480-481,483-484. Dec.23,1950. 80 Sch9

19331 STATIONS FÉDÉRALES D'ESSAIS VITICOLES, ARBORICOLES ET DE CHIMIE AGRICOLE, À LAUSANNE ET À PULLY. Rapport d'activité, 1949. *Landwirt. Jahrb. der Schweiz* 64:729-861. 1950. 17 L23

19332 TOGASHI, T. Kaju saibai kogi [Lectures on fruit tree cultivation]. Tokyo, Yokendo, 1950. 810 p. 93.29 T57

19333 WALKER, A. Principaux arbres fruitiers in-troduits au Gabon. *Cour. Agr.* 15(24):2,4. (Cont.) Nov.22,1950. 24 C83

19334 WHITE, D. G. Choice fruit trees for a home crop. *Flower Grower* 38(2):46-47,59-62. Feb.1951. 80 M72

19335 WINKELMANN. Grundsätzliches sur kronen-gestaltung im obstbau. *Obstbau* 69:140. Sept.1,1950. 80 Ob73

19336 WUNDERLI, H. Die neuanlage als mittel zur beschleunigten umstellung des obstbaues. *Schweiz. Z. f. Obst- u. Weinbau* 59:486-490. Dec.23,1950. 80 Sch9

19337 ZANDER, R. Aus der frühzeit des obstbaues. *Obstbau* 69:141. Sept.1,1950. 80 Ob73

19338 ZIBI, I. R. H. The growing of fruit trees. *Transkeian Ter. Agr. Dept. Umcebisi Womlimi Nomfuyi* 27:25-27. Feb.1950. 24 T684  
Union of South Africa.

#### Fruits--Citrus and Subtropical

19339 BANIF, A. Ensayo comparativo de portainjer-tos para citrus. *IDIA; Inform. de Invest. Agr.* 3(33/34): 44-46. Sept./Oct.1950. 9 Id3

19340 BEISEL, C. G., ZULLIG, H. A., and CALL, A. H. Valencia orange maturity development. *Citrus Leaves* 30(12):9-10. Dec.1950. 80 C492

19341 BLISS, D. E., and others. Second report on date-bunch covers and their relation to the fruit-spoilage complex of Deglet Noor dates. *Date Growers' Inst. Rpt.* 27:7-12. 1950. 81 D26

D. L. Lindgren, W. D. Wilbur, and L. E. Vincent, joint authors.

19342 BOVA, G. The International Conference of Studies on Mediterranean Citrus Problems. (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 44:201-203. July/Sept. 1950. 26 Ag82

19343 CARVALHO, F. G. Annona, delicious fruit! (In Portuguese.) *Colheit. e Mercados* 6:17-20. Jan./Feb. 1950. 255.3 Sa652



- 19344 CONGRÈS INTERNATIONAL DE L'AGRUMI-CULTURE MEDITERRANÉENNE. Actes, Palerme 4, 5, 6, e 7, Juin 1949. Dec.1949. 111 p. 93.33 C762
- 19345 CROCE, F. M. Poda del kaki. Vinos, Viñas y Frutas 45:221,223-224,226-227. Oct.1950. 9 Ag89
- 19346 DATE GROWERS' INSTITUTE. Twenty-seventh annual report, April 29, 1950, held in Coachella Valley, California. Coachella Valley, 1950. 36 p. 81 D26
- 19347 DELPHEY, C. C. Nucellar trees and Ventura citrus. Citrus Leaves 30(12):26-27. Dec.1950. 80 C492
- Similar title in Calif. Citrog. 36:116,118. Jan.1951. 80 C125
- 19348 DOMATO, J. Determinación del mejor momento para la cosecha y comercialización de los frutos cítricos. IDIA; Inform. de Invest. Agr. 3(33/34):39. Sept./Oct.1950. 9 Id3
- 19349 ELLIS, T. O., and TAI, E. A. Report on citrus orchard analyses 1947-1948. Jamaica.Dept. Agr. B. (n.s.)39,50 p. 1949. 8 J227B
- 19350 GIORDANO, B. Citrus culture in Calabria. (In Italian.) Humus 6(10):18-21. Oct.1950. 16 H88
- 19351 MENON, H. B. El cultivo del guayabo. Agr. Venezol. 15(145):43-47. Ref. Aug.1950. 9.95 Ag8
- 19352 NIXON, R. W. Date culture in French North Africa and Spain. Date Growers' Inst. Rpt. 27:15-21. 1950. 81 D26
- 19353 PARTEN, E. M. Increasing avocado production in the Valley. Tex. Farming & Citric. 27(6):7. Dec.1950. 80 T31
- 19354 REBOUR, H. L'infertilité du Clémentinier. Fruits et Primeurs de l'Afrique du Nord. Éd. Marocaine 20:341-342. Nov.1950. 80 F9482
- 19355 RYGG, G. L. Investigations on harvesting Deglet Noor dates including bunch cutting and delayed picking. Date Growers' Inst. Rpt. 27:22-25. 1950. 81 D26
- 19356 SANTOMO, P. Annular incision in the olive. (In Italian.) Terra e Sole 99:363-366,381. Nov.1950. 16 T273
- 19357 SCHROEDER, C. A. Minor subtropical fruit varieties. Calif. Citrog. 36:127,129. Jan.1951. 80 C125
- 19358 SMITH, R. J. The Chinese persimmons arrive. Md. Gard. 4(12):24-25. Dec.1950. 80 M362
- 19359 TERRANOVA, E. V. Notes on Sicilian and United States citrus culture in the frame of modern cultural technique. (In Italian.) Tec. Agr. 2:98-105. July/Oct.1950. 16 T22
- 19360 WYATT, O. E. P. Eriobotrya japonica. Roy. Hort. Soc. J. 75:488-489. Dec.1950. 84 L84J
- 19361 YOST, L. J. Observations on the Baja California date industry. Date Growers' Inst. Rpt. 27:25-26. 1950. 81 D26
- 19362 ZEGARRA RUSSO, M. Explotación bananera en Tumbes. Vida Agr. [Lima] 27:733,735,737-740. Sept. 1950. 9.8 V66
- Culture.
- Fruits--Deciduous**
- 19363 AARON, I., and CLARKE, W. S., JR. Structure of wood allows breakage of apple limbs. Sci. Farmer [Pa. Sta.] 1950:11. Dec.1950. 100 P381
- 19364 ABRAHAMSE, S. Planting of an orchard. (In Dutch.) Betuws Tuinbouwbl. 8(16):4-5. Oct.21,1950. 80 B464
- 19365 ABRAHAMSE, S. Selection of varieties and rootstocks for an apple orchard. (In Dutch.) Fruitteelt 40:780-782. Oct.12,1950. 86 N28
- 19366 BLAUW, P. Planning an orchard. (In Dutch.) Fruitteelt 40:785-786. Oct.12,1950. 86 N28
- 19367 BURSHTEIN, M. On [apple and cherry] varieties of national selection. (In Russian.) Sad i Ogorod 1950(9):34. Sept.1950. 80 Sa13
- 19368 BYRD, B. B. Depression stirred demand for quality apples. Appleland News 14(10):32-35. Oct.1950. 80 Ap53
- 19369 CHANDLER, W. H. What I know and don't know about pruning. Amer. Fruit Grower 70(12):9,17-19. Dec.1950. 80 Am85
- Apples.
- 19370 CROWTHER, D. S. Summer apples. Gard. Illus. 67:316. Dec.1950. 80 G169
- 19371 D'IAKONOV, P. P. A vegetative apple tree. (In Russian.) Sad i Ogorod 1950(9):77. Sept.1950. 80 Sa13
- 19372 ELLENWOOD, C. W. Determine picking time by apple blooming dates. Ohio Farm & Home Res. [Ohio Sta.] 35:64-65. Sept./Oct.1950. 100 Oh3S
- 19373 FRITZSCHE, R., and STOLL, K. Regulierung des fruchtansatzes an apfelbäumen mit hilfe von spritzmitteln. Schweiz. Z. f. Obst- u. Weinbau 59:438-442. Nov.25,1950. 80 Sch9
- 19374 FURUYA, K. Ringo no saibai [Cultivation of apple trees]. Tokyo, Buntoku Sha, 1950. 156 p. 93.31 F98
- 19375 GERRITSEN, C. Rootstocks for apples and pears. (In Dutch.) Volkstuin 33:112-113. Oct.1950. 80 V88
- 19376 GERRITSEN, C. Rootstocks for stone fruit. (In Dutch.) Volkstuin 33:125. Nov.1950. 80 V88
- 19377 GERRITSEN, J. D. What apples and pears will be planted in England in the autumn? (In Dutch.) Fruitteelt 40:783-784. Oct.12,1950. 86 N28
- 19378 HEYNINGEN, J. VAN. The planting of an orchard. (In Dutch.) Betuws Tuinbouwbl. 8(17):4. Nov. 4,1950. 80 B464
- 19379 IL'INSKIĬ, A. A. Moldavian cherry. (In Russian.) Sad i Ogorod 1950(9):27-29. Sept.1950. 80 Sa13
- 19380 IL'FUSHCHENKO, K. L., and MORDKOVICH, M. S. Greater attention to crab apples [varieties]. (In Russian.) Sad i Ogorod 1950(9):23-27. Sept.1950. 80 Sa13
- For cultivation in shelterbelts.
- 19381 KAKEBEEKE, J. Practical hints on how to rejuvenate an old orchard. (In Dutch.) Fruitteelt 40:823. Oct.26,1950. 86 N28
- 19382 KAS'IANENKO, A. I. Biological and cultural characteristics of [fruit] trees on their own roots. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(9):21-26. 1950. 20 Ak1
- 19383 KEDRIN, S. P. New apple varieties for the Middle Volga Area. (In Russian.) Sad i Ogorod 1950(9):19-23. Sept.1950. 80 Sa13
- 19384 LANTZ, H. L. Chemical thinning of apples. Iowa State Hort. Soc. Trans. 84:62-69. 1949. 81 Io9
- Includes discussion.
- 19385 LIJSTEN, R. The Netherlands General Inspection Service for Arboriculture and the fruit grower. V. (In Dutch.) Fruitteelt 40:808-809. Oct.19,1950. 86 N28
- Quality of plants.
- 19386 LOOSE, H. Kirschenanbau an der wende! Obstbau 69:156-157. Oct.1,1950. 80 Ob73
- 19387 MARRIOTT, P. F. Pollination of plums. Victoria. Dept. Agr. J. 48:415-416. Sept.1950. 23 V66J
- 19388 MATTUS, G. E. Apples—from green to ripe. Va. Fruit 38(11):16-19. Nov.1950. 81 V81B
- 19389 MOS, D. DE. Peaches after the harvest. (In Dutch.) Groenten en Fruit 6:223-224. Sept.28,1950. 80 G89
- 19390 MUYZENBERG, E. W. B. V. D. Harvesting and sorting of apples. (In Dutch.) Fruitteelt 40:844-846. Nov.2,1950. 86 N28
- 19391 OPHEUSDEN, A. S. TE. Planting of fruit trees. (In Dutch.) Betuws Tuinbouwbl. 8(17):3. Nov.4,1950. 80 B464
- 19392 RIADNOVA, I. M., and VASILENKO, T. S. Rejuvenation of fruit trees. (In Russian.) Agrobiologiya 1950(5):142-145. Sept./Oct.1950. 20 Ag822
- Observations on apple trees.
- 19393 SHEWELL-COOPER, W. E. Peaches are possible; they can be grown as bushes quite as easily as apples. Field 196:1015. Dec.9,1950. 10 F45
- 19394 SMEDING, P. Variety and rootstock tests at the experiment fruit farm in the clay area at St. Anna Parochie. (In Dutch.) Fruitteelt 40:804-805. Oct.19,1950. 86 N28
- 19395 SNYDER, J. C. Do you want to raise peaches? Better Fruit 45(6):7,20-23. Dec.1950. 80 B46
- 19396 SNYDER, J. C. Elements of pruning apple trees. Better Fruit 45(7):11-12,24,26. Jan.1951. 80 B46
- 19397 SPRENGER, A. M. The hedgesystem. (In Dutch.) Fruitteelt 40:909. Nov.23,1950. 86 N28
- Planting fruit trees.
- 19398 U. S. PATENT OFF. Plant patent 995. Stark, E. Plum tree. 1 p., 1 col. pl. Nov.28,1950. 156.65 P69
- 19399 VALSET, K. National exhibition "Swedish fruit." (In Norwegian.) Norsk Hagetid. 66:210-212. Nov.1/15,1950. 80 N81



## Fruits--Small

- 19400 ARTOZOU, and others. Concours de la plus belle vigne dans les Départements du Maine-et-Loire, Indre-et-Loire, Loir-et-Cher. *Prog. Agr. et Vitic.* 1950: 389-390. Dec.17/24,1950. 14 P94  
Fallot, Valat, and Guillot, joint authors.
- 19401 AUBIN, L. Comment constituer votre vigne familiale? Vie à la Campagne 39:375-376. Nov.1950. 80 V67
- 19402 BAILEY, J. S., FRANKLIN, H. J., and KELLEY, J. L. Blueberry culture in Massachusetts. *Mass. Agr. Expt. Sta. B.* 358, rev., 24 p. Ref. June 1950. 100 M38H
- 19403 BARAT, J. La défense du vignoble de Saone-et-Loire contre la grele, en 1950. *Prog. Agr. et Vitic.* 1950:383-385. Dec.17/24,1950. 14 P94
- 19404 BAUER, R. Stand und bedeutung der beerenobstzüchtung. *Obstbau* 69:148-149. (To be cont.) Oct.1, 1950. 80 Ob73
- 19405 BEKIROV, U. I. Raw material base of Cognac production in Uzbekistan. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(8):35-38. Aug.1950. 95.8 V77  
Chiefly on grape varieties and their culture.
- 19406 BLAIR, D. S. Bush fruits in eastern Canada. *Canada Dept. Agr. Farmers' B.* 131, rev., 20 p. Oct.1950. 7 C16F
- 19407 BOCK, E. Die bedeutung der rebenanerkennung. *Bas-Rhin Agr.* 5:592. Dec.9,1950. 14 B29
- 19408 BOSIAN, G. Rebenveredlung 1950 im Rhein-Nahe-Gebiet. *Weinbau* 5:289-290. Aug.6,1950. 390.8 W432
- 19409 BOUS, A. K. Grape culture in Southern Sakhalin. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(8):54. Aug.1950. 95.8 V77
- 19410 BRANAS, J. Historique sommaire, situation actuelle, objectifs généraux et moyens de la reconstitution des vignobles: rapport général. *Off. Internatl. du Vin.* B. 23(237):27-49. Nov.1950. 390.8 B87
- 19411 BRANAS, J. Plants et plantations. *Prog. Agr. et Vitic.* 1950:291-298. Nov.5/12,1950. 14 P94  
Grapes.
- 19412 BREIDBACH, J. Ein wort zur klonenauslese. *Weinbau* 5:494. Oct.15,1950. 390.8 W432
- 19413 BREIDER. Die rebenzüchtung in Franken. *Weinbau* 5:417. Sept.17,1950. 390.8 W432
- 19414 BROCK, R. B. English grape-growing prospects. *Fruit-Grower* 2867:712-713. Dec.7,1950. 80 F941
- 19415 BROCK, R. B. More outdoor grapes. *Viticult. Res. Sta. Rpt.* 2,62 p. 1950. 95.9 Ox8
- 19416 BRUNNER, E. Entfernen der edelreiswurzeln in der rebschule. *Weinbau* 5:312-313. Aug.20,1950. 390.8 W432
- 19417 CAPUCCI, C. Ingenious methods of increasing the wear and stability of supports and to facilitate the growth of grapevines in plain and hill-plain vineyards. (In Italian.) *Riv. di Estimo Agr. e Genio Rur.* 13:636-653. Dec.1950. 281.8 R522
- 19418 DALMASSO, G. Reconstitution des vignobles par le greffage sur vignes américaines; organisation des pépinières; porte-greffes; greffe; affinité; greffage sur vignes américaines: rapport général. *Off. Internatl. du Vin.* B. 23(237):50-83. Nov.1950. 390.8 B87
- 19419 DIX, W. Das klima des Rheingaus und der qualitätsweinbau. *Z. f. Acker- u. Pflanzenbau* 93:33-44. Dec.1950. 18 J825
- 19420 EMON, J. Résistance des porte-greffes a la sécheresse. *Réveil Agr.* 59:339. Nov.15,1950. 14 R322  
Grapes.
- 19421 EYSTER, W. H. Organic-grown strawberry. *Org. Gard.* 17(6):20-23. Dec.1950. 56.8 Or3
- 19422 FRÉZAL, P., and PRUDHOMME, J. Historique sommaire, situation actuelle, objectifs généraux et moyens de reconstitution des vignobles: Algérie: rapport national. *Off. Internatl. du Vin.* B. 23(237):84-125. Nov.1950. 390.8 B87
- 19423 GAVRILKEVICH, B. Collective farm grape growers. (In Russian.) *Kolkhoz. Proizvodstvo* 10(7):26. July 1950. 281.8 K83  
Grape culture on Karl Libknecht Collective Farm in Kaganovich District, of Odessa.
- 19424 GOSTELI, E. Eine seltene und eigenartige traubenkultur. *Schweiz. Z. f. Obst- u. Weinbau* 59:497-499. Dec.23,1950. 80 Sch9
- 19425 GRUND, P. Eine grossfrüchtige amerikani-sche preiselbeere. *Gart.-Z. illus. Flora* 37:128-219. Nov.1950. 80 G1991
- 19426 GYLLING, A., and BRUUN-MØLLER, P. Healthy black currants. (In Danish.) *Haven* 50:155-156. Nov.1950. 80 H29
- 19427 HALL, C. J. Ending of 1850s found cranberry cultivation definitely advanced. *Cranberries* 8:11,16-18. Dec.1950. 80 C852
- 19428 HAMMERSCHLAG, W. Was muss der winzer von rebs Selektion wissen? *Weinbau* 5:318-319. Aug.20, 1950. 390.8 W432
- 19429 HAUVILLE, A. Le raisin de table d'arrière-saison. *Rev. Hort. de l'Algérie* 54:240-242. Aug./Sept. 1950. 87 R32
- 19430 HEESSEN, G. J., and KRUYK, P. A. Winter measures in grape growing. (In Dutch.) *Groenten en Fruit* 6:341. Nov.16,1950. 80 G89
- 19431 HYAMS, E. The cultivation of grapes under cloches. *Gard. Chron.* 128:166-167. Oct.21,1950. 80 G162
- 19432 HYAMS, E. The progress of English vineyards. *Country Life* [London] 108:2070-2071. Dec.15,1950. 80 C83
- 19433 JACOB, H. E., and WINKLER, A. J. Grape growing in California. *Calif. Agr. Col. Ext. C.* 116, rev., 79 p. Nov.1950. 275.29 C12C
- 19434 JUSCAFRESA, B. De viticultura: los porta-injertos. *Ceres* [Valladolid] 15(174):18-19. (Cont.) Dec.1,1950. 15 C33
- 19435 KELLER. Lesebeginn behördlich verordnet? *Weinbau* 5:519. Nov.5,1950. 390.8 W432  
Germany.
- 19436 KLEIN, L. G. Fall in the berry patch. *Gard. & Gard. Chron.* 54(7):56-59. Oct.1950. 80 G1632
- 19437 KONDO, I. N. Grape culture on "kair" lands. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(8):51-53. Aug.1950. 95.8 V77  
At Chingil'dy Sovkhoz in Tashkent Region.
- 19438 KOZLOVA, A. A. We are fulfilling every year the plan for agrotechnical measures. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(8):6-7. Aug.1950. 95.8 V77  
Grape culture at the Burgun-Madzhazh Sovkhoz.
- 19439 KULIEV, E. A. We allow a load in relation to the vigor of the bush. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(8):7-8. Aug.1950. 95.8 V77  
Chiefly on grape pruning.
- 19440 LJONES, B., and THORSRUD, J. Preliminary report on variety trials with strawberries. (In Norwegian.) *Norsk Hagetidend* 66:223-224. Dec.1,1950. 80 N81
- 19441 MARRIOTT, P. F. Pollination of table grapes. *Victoria. Dept. Agr. J.* 48:391-394. Sept.1950. 23 V66J
- 19442 NIVEN, L. A. Rabbit eyes. *Prog. Farmer, Miss.-Ark.-La. Ed.* 65(12):19. Dec.1950. 6 So81  
Rabbiteye blueberries.
- 19443 NORDMANN. Beobachtungen beim pflanzen von propfreesen. *Weinbau* 5:386-387. Sept.17,1950. 390.8 W432
- 19444 OOSTEN, A. VAN. Pruning of currants. (In Dutch.) *Fruitteelt* 40:925-927. Nov.30,1950. 86 N28
- 19445 PATTERSON, V. Improve your grapes, prune according to vigor. *Horticulture* 29:16. Jan.1951. 80 H787
- 19446 PELKWIJK, A. J. TER. A study on varieties of blackberries. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13:774-788. Ref. Oct.1950. 86 N384  
English summary.
- 19447 POTAPENKO, I. A. Michurinite agrobiology as the basis for grape culture. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(8):9-13. Aug.1950. 95.8 V77
- 19448 RASMUSSEN, H. J. Pruning of grapes. (In Danish.) *Haven* 50:154. Nov.1950. 80 H29
- 19449 REGEL, C. An der nordostgrenze des weinbaus. *Züchter* 20:275-282. Ref. 1950. 442.8 Z8  
Europe.
- 19450 RUBIN, S. M. How to grow good planting stock. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(8):46-48. Aug.1950. 95.8 V77  
Grape culture.
- 19451 SCHALK, A. The planting of a raspberry plot. (In Dutch.) *Betuws Tuinbouwbl.* 8(17):5. Nov.4,1950. 80 B464
- 19452 SHASHKINA, L. M. Cross-pollination of strawberries. (In Russian.) *Agrobiologiya* 1950(5):45-47. Sept./Oct.1950. 20 Ag822



- 19453 SHEBEKO, A. F., SYCHEV, P. P., and ISAEV, M. S. Grape culture in the new districts [Saratov Region, Chuvash ASSR, and Tambov Region]. (In Russian.) Vinodel. i Vinograd. SSSR. 10(8):16-24. Aug. 1950. 95.8 V77
- 19454 SIN'KOVSKI, V. P. New method for planting grapes. (In Russian.) Vinodel. i Vinograd. SSSR. 10(8):39-40. Aug. 1950. 95.8 V77
- 19455 SLATE, G. L. Cane fruits for home gardens. Flower Grower 38(2):44-45, 75-77. Feb. 1951. 80 M72
- 19456 SMEDT, A. DE. Grape culture under glass. (In Flemish.) Tuinbouwberichten 14:166-167. Nov. 15, 1950. 80 T817
- 19457 SOLOMONOV, F. I. Scarifying red currant cuttings. (In Russian.) Sad i Ogorod 1950(9):75. Sept. 1950. 80 Sa13
- 19458 SPRINGER, F. Pfahl- oder drahterziehung im württembergischen weinbau? Weinbau 5:253. July 2, 1950. 390.8 W432
- 19459 STAALDUINE, D. VAN. Muscat grape from Alexandria. IX. (In Dutch.) Groenten en Fruit 6:340. Nov. 16, 1950. 80 G89
- 19460 TSEBRII, M. P. Vyvedenie novykh i uluchshenie sushchestvuyushchikh sortov vinograda [Development of new and improvement of existing grape varieties]. Odessa, Odesskoe Obl. Izd-vo, 1950. 81 p. 95.15 T78
- 19461 U. S. PATENT OFF. Plant patent 993. Hagerstrom, M. Strawberry plant. 2 p., 1 col. pl. Nov. 28, 1950. 156.65 P69
- 19462 VIJFVINKEL, L. The grape. I-III. (In Dutch.) Volkstuin 33:112, 124-125, 135-136. Oct. 1950. 80 V88
- 19463 VITES, L. S. Michurinite grape varieties near Biro-Bidjan. (In Russian.) Vinodel. i Vinograd. SSSR. 10(8):54-55. Aug. 1950. 95.8 V77
- 19464 WATIN, G. Mise au point sur l'adaptation des nouveaux hybrides méteils français à la viticulture nouvelle. Voix des Colons 32(1582):1, 3. Nov. 13, 1950. 24 V85
- 19465 WOOD, C. A. Variety trials: raspberries in Scotland. Fruit-Grower 2870:846-847. Dec. 28, 1950. 80 F941
- 19466 WRÓBLÓWNA, W. Observations on the vegetative propagation, germination and zoochory of the raspberry (*Rubus idaeus* L.). (In Polish.) Soc. Bot. Poloniae. Acta (1949-50) 20:201-222. Ref. 1950. 451 So16  
English summary.
- 19467 ZULUAGA, P. A. Problemas que plantea la reconstrucción de los viñedos filoxerados en Cuyo. Vinos, Vinas y Frutas 45:170-172, 175-176, 178. Sept. 1950. 9 Ag89
- Nuts
- 19468 GEORGIU, N. Posibilitades castañeras de Bolivia. Campo [La Paz] 4(38/39):37, 39, 41-42. June/July 1950. 9.1 C15
- 19469 GROVEN, I. Filbert variety tests. (In Norwegian.) Gartneryrket 40:799-800. Nov. 18, 1950. 80 G1938
- 19470 GUENOT, HONNORAT, and BALLOT. Note sur la fructification des amandiers à la Station Régionale. Horticole d'An Taoudjat. Terre Marocaine 24:461-462. Nov. 1950. 24 T44
- 19471 PEDERSEN, A. Walnuts with thin shells. (In Danish.) Gart.-Tid. 66:530. Nov. 29, 1950. 80 G192
- 19472 RAGLESS, G. B. The I.X.L. varieties. Grower [Adelaide] 5(3):8. Sept. 1950. 80 G912  
Almonds.
- 19473 TKHAGUSHEV, N. A. Experiment in growing filberts in districts in the Kuban Area. (In Russian.) Les i Step' 2(8):88-91. Aug. 1950. 99.8 L565
- 19474 ZARUBIN, A. F. Filberts [*Corylus tubulosa*] and their utilization in the Persian walnut plantations in Southern Kirgizia. (In Russian.) Priroda 39(7):43-46. July 1950. 410 P933
- Shade Trees and Ornamental Plants
- 19475 ABRAMOV, I. I. Culture of *Lilium szovitzianum* in the steppe area. (In Russian.) Priroda 39(7):65. July 1950. 410 P933
- 19476 ALBERT, A. D., JR. Observations on rose growing. Amer. Rose Mag. 9(3):4-8. Nov./Dec. 1950. 80 Am327A
- 19477 ALTEVEER, K. The planting of a sport place. (In Dutch.) Vakbl. v. de Bloemisterij 5:350. (Concl.) Oct. 27, 1950. 80 V22
- 19478 ALTHAUSEN, H. Laelia jongheana. Amer. Orchid Soc. B. 19:677-678. Dec. 1950. 80 Am329
- 19479 AMELINCKX, F. Topping of big trees. (In Flemish.) Cult. en Handel 16:681. Nov. 1950. 80 C892
- 19480 AMERICAN ASSOCIATION OF NURSERYMEN. Ten ways to control the climate around your home. Green Thumb 8(1):10-14. Jan. 1951. 80 G82
- 19481 ANTHONY, A. These Irises are really pink. Gard. & Gard. Chron. 54(8):60. Dec. 1950. 80 G1632
- 19482 ARNOLD, R. E. *Cypripedium rothschildianum*. Orchid Rev. 58:150-151. Nov. 1950. 80 Or15
- 19483 ARNOLD, R. E. *Masdevallia hieroglyphica*. Orchid Rev. 58:140, 142. Oct. 1950. 80 Or15
- 19484 ASHLEY, M. The Aster parade. Green Thumb 7(12):14-15. Dec. 1950. 80 G82
- 19485 ASPESQETER, O. The Christmas rose—Helleborus. (In Norwegian.) Norsk Hagetidend 66:221-222. Dec. 1, 1950. 80 N81
- 19486 ASTVATSATRIAN, Z. A. New method of storing Dahlias [bulbs]. (In Russian.) Sad i Ogorod 1950(9):77. Sept. 1950. 80 Sa13
- 19487 BABB, MRS. E. M., and TURNER, A. M. Advice from two amateurs; growing African violets. Horticulture 28:410, 413. Nov. 1950. 80 H787
- 19488 BALL, G. C. New annuals for '51. Florists' Rev. 107(2770):15-16. Dec. 28, 1950. 80 W41
- 19489 BALLARD, MRS. C. M. The Christmas rose [*Helleborus niger*]. Gard. Club Amer. B. 39:38-41. Jan. 1951. 90.32 G16
- 19490 BALTHIS, F. K. Indoor aquatic gardening. Horticulture 28:443, 458. Dec. 1950. 80 H787
- 19491 BARNES, C. T. A comment on new roses. Amer. Rose Mag. 9(3):38. Nov./Dec. 1950. 80 Am327A
- 19492 BEANE, J. B. A report on Stockdale's "Closed system." Amer. Orchid Soc. B. 19:658-660. Dec. 1950. 80 Am329  
Orchid culture.
- 19493 BECKX, A. Le Clarkia en serre. B. Hort. (n.s.) 5:289-290. Oct. 1, 1950. 80 B873
- 19494 BEER. Die hauptfehler in der topfpflanzenkultur. Gart.-Z. Illus. Flora 73:103-104. Sept. 1950. 80 G1991
- 19495 BEILMANN, A. P. Native Missouri shrubs and trees. Amer. Nurseryman 92(11):11-12. Dec. 1, 1950. 80 Am371
- 19496 BENEZET, L., FAVRO, L., and IGOLEN, G. The roses of Dades. (In Italian.) Riv. Ital. Essenze, Profumi, Piante Off., Olli Veg., Saponi 32:539-541. Ref. Nov. 15, 1950. 308.8 R52  
Varieties and processing in Morocco.
- 19497 BERENDS, J. L. *Coriaria terminalis*. (In Dutch.) Vakbl. v. de Bloemisterij 5:342. Oct. 20, 1950. 80 V22
- 19498 BERRY, G. H. *Gentiana verna*. Alpine Gard. Soc. Q. B. 18:328-333. Dec. 1950. 84 AL6
- 19499 BINGLEY, L. T. Flowers from the Hermit Kingdom, Korea's gift to our gardens. Horticulture 29:10-11. Jan. 1951. 80 H787
- 19500 BLACKBURN, B. Plant for permanence, the Chinese holly [*Ilex cornuta*]. Flower Grower 37(12):8-9. Dec. 1950. 80 M72
- 19501 BLACKWELL, H. G. Orchids—from seed to flower. Flower Grower 38(2):48-49, 70-71. Feb. 1951. 80 M72
- 19502 BOAN, J. Grow a wireless fence. Ark. Farmer 53:10-11. Jan. 1951. 6 Ar42  
Multiflora rose.
- 19503 BOESEL, M. W. Iris favorites of the Ohio River Valley and some notes on the National Symposium. Amer. Iris Soc. B. 120:48-51. Jan. 1951. 81 Am39
- 19504 BRADBURY, L. B. Growing orchids for export. Gard. Illus. 67:311. Dec. 1950. 80 G169
- 19505 BRECKLE, J. F. Notes on *Polygonum*. V. Phytologia 3:361-366. Dec. 1950. 450 P563
- 19506 BRINER, V. New *Amaryllis* hybrids. Flower Grower 38:62, 70-71. Jan. 1951. 80 M72
- 19507 BRINK, V. Plant *Fritillaria imperialis* now and in the spring you'll have a skyscraper in your garden. Gard. & Gard. Chron. 54(7):67-68. Oct. 1950. 80 G1632
- 19508 BUTLER, T. B. My first year's experience with Camellias. Camellian 1:20-21. June 1950. 97.31 C14
- 19509 BUTTERFIELD, H. M. Rose culture in California. Calif. Agr. Col. Ext. C. 148, rev., 44 p. Oct. 1950. 275.29 C12C
- 19510 BUXTON, B. R. Three choice house plants. Horticulture 29:14. Jan. 1951. 80 H787  
*Begonia thurstoni*, *Oxalis peduncularis*, and *Cryptanthus zonatus*.



- 19511 CAPEN, J. Meet the obliging Impatiens. Flower Grower 38:60-61,69. Jan.1951. 80 M72
- 19512 CARRA, P., and GUEIT, M. Plantes de bordures. Rev. Hort. de l'Algérie 54:211-222,243-255. June/July-Aug./Sept.1950. 87 R32
- 19513 CARTER, MRS. S. T., JR. Two plants of antiquity. Gard. Club Amer. B. 39:44-47. Jan.1951. 90.32 G16
- Crocus sativus* and *Nigella damascena*.
- 19514 CARVALHAES, A. R. Some notes about Brazilian Laelias. Amer. Orchid. Soc. B. 19:674-675. Dec. 1950. 80 Am329
- 19515 CHAPLIN, P. New carnations need a long trial. Grower [London] 34:1159. Dec.2,1950. 286.83 M34
- 19516 CHEVALIER, C. Plantes vivaces supportant la sécheresse. B. Hort. (n.s.)5:283-286. Oct.1,1950. 80 B873
- 19517 CHEVALIER, H. Les Magnolias. B. Hort. (n.s.)5:287-288. Oct.1,1950. 80 B873
- 19518 CHRYSANTHEMUM SOCIETY OF AMERICA. Annual meeting, Tuesday, January 9, 1951, the Neil House, Columbus, Ohio. Chrysanthemum Soc. Amer. B. 19(1), 12 p. Jan.1951. 81 C46B
- 19519 CISLER, E. W. A good yellow lily. Horticulture 29:25. Jan.1951. 80 H787
- 19520 CISLER, E. W. Pride of California: a wild pea aristocrat. Horticulture 28:419. Nov.1950. 80 H787
- Lathyrus splendens*.
- 19521 CLAY, E. T. A simple Camellia classification. Gard. Club Amer. B. 39:42-43. Jan.1951. 90.32 G16
- 19522 CLINCH, F. A. Care of Christmas cactus [*Schlumbergera truncata*] is outlined. Farm & Gard. [Watertown] 1950:5. Dec.2,1950. 6 F234
- 19523 COKER, MRS. D. R. Richer plant material for the coastal plains of South Carolina. Gard. Club Amer. B. 39:73-74. Jan.1951. 90.32 G16
- 19524 COLQUITT, MRS. W. Bearded Irises in Shreveport. Amer. Iris Soc. B. 120:12-14. Jan.1951. 81 Am39
- 19525 CONROY, G. Hawaiian flower arrangement. Flower Grower 38:58-59,69. Jan.1951. 80 M72
- 19526 CORLISS, P. G. Was it really a glad show? New Eng. Gladiolus Soc. Gladiolus Mag. 14(5):2,20,22. Oct.1950. 96.43 N44 Suppl
- 19527 CRAIG, T. Recent developments in oncocyclis breeding. Amer. Iris Soc. B. 120:34-42. Jan.1951. 81 Am39
- 19528 CROCKER, MRS. E. S. The gardens of Iraq. Gard. Club Amer. B. 39:6-19. Jan.1951. 90.32 G16
- 19529 CROCKET, R. M. *Ceanothus americanus*, the New Jersey tea or red root. Prof. Gard. 2:263. Nov. 1950. 80 P945
- 19530 CROOK, H. C. Alpines at home. II. Gard. Illus. 67:304-305. Dec.1950. 80 G169
- 19531 CROOK, S. R. Nature's rock garden. Prof. Gard. 2:286-287. Dec.1950. 80 P945
- 19532 CRUISE, M. Succulents for West Coast winners. Gard. & Gard. Chron. 54(8):98-100,113. Dec.1950. 0 G1632
- 19533 CURFS, P. The modern style gains ground. (In Dutch.) Vakbl. v. de Bloemisterij 5:391. Dec.1,1950. 0 V22
- Flower arrangements.
- 19534 CUTAK, L. Growing and enjoying succulents. Mo. Bot. Gard. B. 38:171-195. Dec.1950. 451 M69B
- 19535 DANVIG, A. M. Blomster gartneriet formering og dyrkning af pottedplanter og afskaeringsblomster [Flower gardening; propagation and culture of potted plants and cut flowers]. 7. København, Dansk Studieförslag, 1950? p.393-456. (Dansk Erhvervsgartneris Handbog) 96 D23
- 19536 DECKER, D. Morning-glories galore. Flower Grower 38:28,30. Jan.1951. 80 M72
- Ipomoea*.
- 19537 DOIG, M. M. Raising orchids. Prof. Gard. 2:238-239. Oct.1950. 80 P945
- 19538 DOW, F. About Delphiniums. Md. Gard. 4(11): 12. Nov.1950. 80 M362
- 19539 DRINKWATER, G. H. New points of view on winter protection. Amer. Rose Mag. 9(3):9. Nov./Dec. 1950. 80 Am327A
- 19540 EDEN, C. A. M. Hints on the care of a small flower garden. Gard. Club Amer. B. 38(6):46-48. Nov. 1950. 90.32 G16
- 19541 ELLIOTT, C. Butcher's broom [*Ruscus aculeatus*]. Countryman [Burford] 42:299-300. Winter 1950. 281.28 C832
- 19542 ELLIS, C. K. Growing Cinerarias for garden and greenhouse. New Zeal. J. Agr. 81:477-478. Nov.1950 23 N48J
- 19543 ELLIS, C. K. Lawn management is a large part of the flower gardener's tasks. New Zeal. J. Agr. 81:383, 385,387-388. Oct.1950. 23 N48J
- 19544 EMSWELLER, S. L. Growing annual flowering plants. U. S. D. A. Farmers' B. 1171,rev.,26 p. Oct. 1950. 1 Ag84F
- 19545 ENE DE PIRO, M. Les Agapanthes. Réveil Agr. 59:341-342. Nov.15,1950. 14 R322
- 19546 EXLEY, MRS. F. M. Seed planting in the South. Gard. Club Amer. B. 38(6):37-40. Nov.1950. 90.32 G16
- 19547 EYSTER, W. H. Christmas rose [*Helleborus niger*]. Org. Gard. 17(6):52-53. Dec.1950. 56.8 Or3
- 19548 FAIRLEY, E. H. Plant for winter color. Org. Gard. 17(6):14-15. Dec.1950. 56.8 Or3
- 19549 FEENSTRA, P. Hedges in allotment garden complexes. (In Dutch.) Volkstuin 33:138. Dec.1950. 80 V88
- 19550 FLAB, L. Albrecht Thaer. Nat. u. Nahr. 4 (15/16):13-14. Aug.1950. 80 N218
- Founder of German landscape gardening.
- 19551 FLYNN, T. P. Orchids abroad. II. Amer. Orchid Soc. B. 19:664-668. Dec.1950. 80 Am329
- 19552 FRANKLIN, J. J. Propagation of Mahonia aquifolium by cuttings. Ohio. Agr. Col. Ext. Nursery Notes 19(11),4 p. Nov.1950. 275.29 Oh32N
- 19553 FURUTA, T. Chrysanthemum tests. Ohio Florists Assoc. B. 256:3-7. Jan.1951. 81 Oh36
- 19554 GARY, L. M. Philippine lilies [*Lilium philippinense formosanum*]. Gard. Club Amer. B. 39:43. Jan.1951. 90.32 G16
- 19555 GONZALEZ LUGO, E. Nuestras flores: la orquídea, *Cattleya labiata* var. *speciosissima*. Agr. Venezol. 15(144):4-6. July 1950. 9.95 Ag8
- 19556 GRAVES, G. Asiatic and native Magnolias. Amer. Nurseryman 92(11):30-33. Dec.1,1950. 80 Am371
- 19557 GRIEBEL, A. Traubenblütige Fuchsien. Gartenbauwirtschaft [Berlin] 1950:225. Oct.10,1950. 80 G1936
- 19558 GUEYDON, L. Il faut tailler vos rosiers. Réveil Agr. 59:341. Nov.15,1950. 14 R322
- 19559 HADFIELD, M. Cuttings of deciduous conifers. Roy. Hort. Soc. J. 75:487. Dec.1950. 84 L84J
- Ginkgo biloba*.
- 19560 HALL, H. South African Chinchinchees [Ornithogalum]. Gard. Chron. 128:230. Dec.16,1950. 80 G162
- 19561 HALLOWAY, H. R. Twice blooming dogwood shrubs. Gard. Club Amer. B. 38(6):40. Nov.1950. 90.32 G16
- 19562 HAMBLIN, S. F. Difficult to tell apart, but brooms [*Cytisus*] are beautiful. Horticulture 28:411. Nov.1950. 80 H787
- 19563 HAMBLIN, S. F. For rare satisfaction, plant a sunken garden. Horticulture 28:449. Dec.1950. 80 H787
- 19564 HAMBLIN, S. F. Rock garden sites. Horticulture 28:417. Nov.1950. 80 H787
- 19565 HARP, H. F. Extra care is needed to keep plants winter healthy. Farm & Ranch Rev. 46(12):12-13. Dec.1950. 7 F223
- 19566 HASTIE, C. N., JR. Summer care of your Camellias. Camellian 1:9,16. June 1950. 97.31 C14
- 19567 HAUSMAN, E. H. Our lady's bedstraw [*Galium verum*] a Christmas herb. Horticulture 28:437,458. Dec. 1950. 80 H787
- 19568 HAWORTH-BOOTH, M. Dogwoods of outstanding beauty. Gard. Illus. 67:308-310. Dec.1950. 80 G169
- 19569 HAY, J. Ye olden time camomile [*Anthemis nobilis*] green, a drought-resistant lawn. Horticulture 29: 20. Jan.1951. 80 H787
- 19570 HAYWARD, W. Once popular, long ignored; Caladium comeback. Horticulture 28:402-403. Nov.1950. 80 H787
- 19571 HEIMLICH, A. New varieties day, New England carnation growers hold annual event. Florists' Rev. 107(2769):21-23. Dec.21,1950. 80 W41
- 19572 HELLYER, A. G. L. Lilies for the amateur. Country Life [London] 108:1782-1784. Nov.24,1950. 80 C83



- 19573 HELLYER, A. G. L. New garden trees and shrubs. *Country Life* [London] 108:2144-2145. Dec.22, 1950. 80 C83
- 19574 HENDERSHOTT, MRS. H. M. Growing exhibition Chrysanthemums in Oregon gardens. *Gard. Club Amer. B.* 38(6):29-31. Nov.1950. 90.32 G16
- 19575 HENDERSON, P. F. Brookgreen gardens. *Gard. Club Amer. B.* 39:26-30. Jan.1951. 90.32 G16 South Carolina.
- 19576 HIERONYMUS, A. M. Guide for choosing shrubs and vines. *Hawaii Farm & Home* 13(11):38-39,41 Nov.1950. 25 H3191
- 19577 HIERONYMUS, A. M. How to cut trees and shrubs. *Hawaii Farm & Home* 13(12):28-29. Dec.1950. 25 H3191
- Types of cuttings for propagation.
- 19578 HILDEBRAND, F. H., and VERDUYN LUNEL, F. A. Bomen en sierheesters, voorkomende in de tuin van het Bosbouwproefstation te Bogor. Trees and shrubs in the Forest Research Institute's garden at Borog. Indonesia. *Bosbouwproefsta. Rap.* 41,23 p. Oct.1950. 99.9 Ea72R
- English summary.
- 19579 HILDRETH, A. C. Ornamental hedges for the central Great Plains. *U. S. D. A. Farmers' B.* 2019,25 p. Oct.1950. 1 Ag84F
- 19580 HOAK, C. M. Hardy evergreen vines. *Org. Gard.* 17(6):30,33. Dec.1950. 56.8 Or3
- 19581 HOAK, C. M. Some 100% Americans in the New England region. *Natl. Gard.* 21(11/12):16-20. Nov./Dec.1950. 90.32 N21
- Ornamental plants.
- 19582 HOLLAND, J. G. A simple system of classification. *Camellian* 1:5,17. June 1950. 97.31 C14
- 19583 HOUT, A. VAN. Plantes d'appartement. *Cour. Hort.* 12:609-613. Nov.1950. 80 C834
- 19584 HYAM, G. Propagation of Daphnes and similar shrubs. *Victoria. Dept. Agr. J.* 48:515-517. Nov. 1950. 23 V66J
- 19585 INGALLS, N. M. These plants do best with a place in the sun. *Horticulture* 28:409. Nov.1950. 80 H787
- 19586 JACKSON, C. Hedges of charm and of utility. *Smallholder* 84(2115):17. Dec.1,1950. 10 Sml
- 19587 JACOBS, D. B. Winter interest in the garden. *N. Y. Bot. Gard. J.* 51:295-297. Dec.1950. 451 N48J
- 19588 JOHNSON, A. T. Autumnal leaf colour. *Gard. Chron.* 128:174-175. Oct.28,1950. 80 G162
- 19589 JOHNSON, A. T. English hedgerows. *Estate Mag.* 50:495-497. Dec.1950. 10 Es8
- 19590 JOHNSON, C. E. *Laelia purpurata* and its rare varieties. *Amer. Orchid Soc. B.* 19:652-657. Dec.1950. 80 Am329
- 19591 JOUGAN, E. Comment soigner les cactées en hiver. *Acclimatation* 77:272. Dec.23,1950. 14 Ac2
- 19592 KELLENBERGER, F. S. Choice *Oxalis*. *Gard. & Gard. Chron.* 54(8):86-87. Dec.1950. 80 G1632
- 19593 KELLENBERGER, F. S. Four unusual house plants to brighten your home. *Horticulture* 28:406-407. Nov.1950. 80 H787
- Fittonia verschaaffelti* pearcei, *Oxalis rubra*, *Naegelia zebrina* discolor, and *Begonia sutherlandii*.
- 19594 KELLENBERGER, F. S. A pleasant climber for your indoor garden, *Ceropegia*. *Gard. & Gard. Chron.* 54(7):55. Oct.1950. 80 G1632
- 19595 KELLENBERGER, F. S. Some interesting house plants for you to try. *Horticulture* 28:448-449. Dec.1950. 80 H787
- 19596 KOFRAANEK, A. M. Spike and corm production of glads influenced by depth of planting. *Florists' Exch.* 116(2) 12. Jan.13,1951. 80 F666
- 19597 KROMDIJK, G. *Crotons*. (In Flemish.) *Cult. en H. B.* 16:750-751. Dec.1950. 80 C892
- Codiaeum*.
- 19598 KROMDIJK, G. *Primula obconica*. (In Dutch.) *Vakbl. v. de Bloemisterij* 5:340. Oct.20,1950. 80 V22
- 19599 KRUEGER, W. C. How to grow *Gladiolus*. *Iowa State Hort. Soc. Trans.* 84:155-158. 1949. 81 Io9
- 19600 KRÜSSMANN. *Deutsche Clematis-züchtungen*. *Deut. Baumsch.* 2:209-210. Sept.1,1950. 80 D486
- 19601 LAZARO, M. I. Home beautification for community improvement [Philippine Islands]. *Agr. & Indus. Life* 12(11):14,21. Nov.1950. 25 Ag8
- 19602 LEDESMA, N. R. *Arboles criollos ornamentales: el tarco o jacaranda*. *Chacra* 21(241):32-33. Dec. 1950. 9 C34
- 19603 LESLIE, W. R. Canadian ornamentals for American gardens. *Iowa State Hort. Soc. Trans.* 84:30-32. 1949. 81 Io9
- 19604 LESLIE, W. R. Some hardy woody ornamental plants. *Iowa State Hort. Soc. Trans.* 84:33-36. 1949. 81 Io9
- 19605 LIBOWITZKY, J. A. Blütenbäume für parkanlagen. *Gart.-Z. Illus. Flora* 73:125-126. Nov.1950. 80 G1991
- 19606 LINDBERG, E. Lilies and lilies. (In Swedish.) *Trädgårdstidningen* 22(11):8-9. Nov.1950. 80 T67
- Liliaceae* and *Amaryllidaceae*.
- 19607 LINDSAY, G. *Pachycereus orcuttii*, again. *Desert Plant Life* 22:87-94. Oct.1950. 450 D45
- 19608 LITTLEFIELD, C. My method of winter protection. *Amer. Rose Mag.* 9(3):13. Nov./Dec.1950. 80 Am327A
- 19609 LOMBARTS, J. Seltene *Sorbus*-arten. *Deut. Baumsch.* 2:206-207. Sept.1,1950. 80 D486
- 19610 LORD, E. Vacationing in northern Luzon. *Gard. Club Amer. B.* 39:51-56. Jan.1951. 90.32 G16
- 19611 MCCULLY, A. Plants for rock margined pools. *Gard. & Gard. Chron.* 54(7):61-66. Oct.1950. 80 G1632
- 19612 MACHADO, G. R. *Laelia monophylla*. *Amer. Orchid Soc. B.* 19:661. Dec.1950. 80 Am329
- 19613 MANN, E. E. For gardening adventure make mine *Gloxinias*. *Horticulture* 28:447. Dec.1950. 80 H787
- 19614 MARNETTE, J. Plantes bulbeuses secondaires. *B. Hort. (n.s.)* 5:291-294. Oct.1,1950. 80 B873
- 19615 MARSH, M. You, too, might grow an Alpine flower garden. *Rec. Stockman, Annu. Ed.* (1951)61(52): 189,190,192. Dec.28,1950. 49 D43
- 19616 MARTIN, MRS. A. S. Garden traditions of the Buckeye State. *Natl. Gard.* 21(11/12):4-5,26-27. Nov./Dec.1950. 90.32 N21
- 19617 MARTINSSON, G. The alpine garden on Schünige Platte. (In Swedish.) *Trädgårdstidningen* 22(11): 6-7. Nov.1950. 80 T67
- 19618 MASON, C. M. Good garden companions. *Estate Mag.* 50:502-504. Dec.1950. 10 Es8
- Care of ornamental trees.
- 19619 MATTOON, H. G. There are styles in plants, too, fads and fancies. *Horticulture* 29:11,27. Jan.1951. 80 H787
- 19620 MEEHAN, S. M. Tree characteristics. *Horticulture* 28:405,424. Nov.1950. 80 H787
- 19621 MERRITT, J. S. *Hydrangeas*—new ideas for flowering success. *Florists' Exch.* 116(2):15. Jan.13, 1951. 80 F666
- 19622 MILLER, A. J. Start a "collection" because daffodils are fun. *Gard. & Gard. Chron.* 54(7):75-76. Oct.1950. 80 G1632
- 19623 MILLER, F. C. *Chrysanthemums*—grand finale to the garden. *Gard. & Gard. Chron.* 54(8):106-107. Dec.1950. 80 G1632
- 19624 MODE, S. The new beautiful glads. *New Eng. Gladiolus Soc. Gladiolus Mag.* 14(6):9-18;(6):14-21,32. Oct.-Dec.1950. 96.43 N44 Suppl
- 19625 MOL, W. E. DE. A giant *Scilla*. *Gard. Chron.* 128:214. Dec.2,1950. 80 G162
- 19626 MOLDENKE, H. N. The box huckleberry [*Vaccinium brachycerum*] the oldest flowering plant. *Horticulture* 28:456-457. Dec.1950. 80 H787
- 19627 MONCRIEFF, R. W. Flowers and their perfumes. *Discovery* 11:347-349. Nov.1950. 472 D63
- 19628 MOSHER, K. H., and MOSHER, R. Why not grow *Achimenes*? *Flower Grower* 38:48,73-74. Jan. 1951. 80 M72
- 19629 MÜLLER-NEAPEL, W. Württembergische blumenzüchtungen. *Saatgut-Wirtsch.* 2:174-175. (Cont.) Aug.1950. 61.8 Sa1
- 19630 MUNT, A. Colorful Cranbrook. *Prof. Gard.* 2: 289. Dec.1950. 80 P945
- 19631 NAKAJIMA, T. *Mitsuba* [*Cryptotaenia canadensis*]. *Tokyo, Sangyo Tosho*, 1950. 162 p. 91.48 N14
- 19632 THE NATIONAL Dahlia Honor Roll. *Flower Grower* 37(12):24-27,40-43. Dec.1950. 80 M72
- Eastern selections, by L. B. Dudley; Midwest selections, by J. L. Roberts; Southern selections, by C. E. Faust; Pacific Coast selections, by R. T. Eddy.
- 19633 NAVARRO, J. Los Crisantemos. *Charla Rur.* 144:10-11. (To be cont.) Oct.1950. 9 C37
- Culture.



- 19634 NAYLOR, M. D. Hybrid versus mutation. *Amer. Iris Soc. B.* 120:74-77. Jan.1951. 81 Am39
- 19635 NEEL, L. *Oncocyclus*, *regella* and *regello-cyclus* Irises. *Amer. Iris Soc. B.* 120:19-23. Jan.1951. 81 Am39
- From Newsletter No. 22, The Kent Group (England).
- 19636 NEWTON, N. T. Landscape architecture, a brief description of the profession and its scope. *Landscape Architecture* 41:19-21. Oct.1950. 80 L23
- 19637 NIKLITSCHKE, A. Die beste aller zimmerpflanzen. *Gart.-Z. Illus. Flora* 73:101-102. Sept.1950. 80 G1991
- Rosa multiflora.
- 19638 NIKLITSCHKE, A. Zwei prächtige wasserpflanzen. *Gart.-Z. Illus. Flora* 73:116-117. Oct.1950. 80 G1991
- Zantedeschia elliotiana* and *Hymenocallis caribaea*.
- 19639 NILSSON, A. *Begonia semperflorens plenissima* W.s. (In Swedish.) *Weibulls Allehanda* 10:38-40. 1950. 80 W42
- 19640 NILSSON, A. Forcing of snapdragon. (In Swedish.) *Weibulls Allehanda* 10:21-25. 1950. 80 W42
- 19641 NILSSON, A. New experiences with Cyclamen culture. (In Swedish.) *Weibulls Allehanda* 10:25-30. 1950. 80 W42
- 19642 NILSSON, A. The problem of 100% blooms of *Mathiola*. (In Swedish.) *Weibulls Allehanda* 10:30-32. 1950. 80 W42
- 19643 NILSSON, A. The White Lady, an excellent group *Petunia*. (In Swedish.) *Weibulls Allehanda* 10:33-34. 1950. 80 W42
- 19644 OHL, J. J. Basic work with the Mohr hybrids. *Amer. Iris Soc. B.* 120:24-33. Jan.1951. 81 Am39
- 19645 PACKARD, C. A. What to do about perennials in the fall. *Gard. & Gard. Chron.* 54(7):28-31. Oct.1950. 80 G1632
- 19646 PALMGÅRD, A. Roses in the home. (In Swedish.) *Trädgårdstidningen* 22(11):14. Nov.1950. 80 T67
- 19647 PARCHER, E. S. Flowers you can grow in the shade. *Gard. & Gard. Chron.* 54(8):75-78. Dec.1950. 80 G1632
- 19648 PARMENTER, R. The death of a Philodendron—and its rebirth! *Flower Grower* 37(12):30-31,58. Dec.1950. 80 M72
- 19649 PARRY, J. Colorado crossroads. *Green Thumb* 8(1):6-8. Jan.1951. 80 G82
- Spanish and English influence in gardens.
- 19650 PAUSCH, A. B. All around the country—many kinds of Christmas trees. *Horticulture* 28:440. Dec. 1950. 80 H787
- 19651 PEARCE, E. L. Grapefruit a shade tree in 1882. *Packer* 57(4,sect.B.):41-42. Dec.30,1950. 286.8 N483
- 19652 PEER, R. New varieties of *Camellia reticulata*. *Camellian* 1:12-13. June 1950. 97.31 C14
- 19653 PEETERS, F. J. *Buxus sempervirens*. (In Dutch.) *Vakbl. v. de Bloemisterij* 5:406. Dec.15,1950. 80 V22
- 19654 PESMAN, M. W. Let me smell your garden. *Green Thumb* 8(1):9. Jan.1951. 80 G82
- 19655 PESMAN, M. W. Why gardens differ. *Green Thumb* 7(12):21. Dec.1950. 80 G82
- 19656 PEYTON, G. W. Peyton's peony pilgrimage. *Rapidan, Va.*, 1950. 32 p. 96.568 P46
- 19657 PHILLIPS, G. A. R. The small country garden. *Nurseryman & Seedsman* 111:1362-1364. Nov.9,1950. 80 N933
- 19658 PROCTER, C. Spare plants are a cheap insurance. *Grower [London]* 34:1161. Dec.2,1950. 286.83 M34
- Greenhouse culture.
- 19659 PUCCINI, G. The culture of bulbs. VI. (In Italian.) *Terra [Firenze]* 61(52):3. Dec.24,1950. 16 T274
- In the Netherlands.
- 19660 PULLAR, E. A. For all-year beauty and hardiness plant native shrubs. *Gard. & Gard. Chron.* 54(7):39-44. Oct.1950. 80 G1632
- 19661 PUTZ, A. Early start, wise planning, will pay you dividends in happy house plants. *Gard. & Gard. Chron.* 54(7):33-37. Oct.1950. 80 G1632
- 19662 QUADLAND, H. P. Something to think about this winter; house lot climate control. *Horticulture* 28: 412-413. Nov.1950. 80 H787
- Landscape gardening.
- 19663 RAALTE, D. VAN. Christmas and flowers. (In Flemish.) *Cult. en Handel* 16:740-744. Dec.1950. 80 C892
- 19664 RAALTE, D. VAN. Floriculture in the South of France. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13:837-859. Nov.1950. 84 N384
- English summary.
- 19665 RANDOLPH, L. F. Contributions of Sir Michael Foster to Iris breeding. *Amer. Iris Soc. B.* 120: 54-65. Jan.1951. 81 Am39
- 19666 RAPP, A. E. Growing wild flowers in the garden. *Iowa State Hort. Soc. Trans.* 84:158-164. 1949. 81 I09
- 19667 REBHAN, J. Custom-made dish gardens. *Florists' Rev.* 107(2771):15-16. Jan.4,1951. 80 W41
- 19668 REBHAN, J. Dish gardens wholesale; assembly-line production in New York area. *Florists' Rev.* 107(2769):17-20. Dec.21,1950. 80 W41
- 19669 REINAGL, L. Vermehrung der nadelgehölze (koniferen). *Gart.-Z. Illus. Flora* 73:119-121. Oct.1950. 80 G1991
- 19670 REUTERSWÄRD, G. In nurseries with giant flowers. III. (In Swedish.) *Trädgårdstidningen* 22(11): 20-21. Nov.1950. 80 T67
- In England.
- 19671 RODALE, R. How about an elm. *Org. Gard.* 17(6):47-48. Dec.1950. 56.8 Or3
- 19672 ROGER-SMITH, H. The propagation of alpine plants. *Alpine Gard. Soc. Q. B.* 18:365-370. Dec.1950. 84 AL6
- 19673 ROTOR, G., JR., and MOTT, R. C. Frequency of watering and the growth of *Phalaenopsis*. *Amer. Orchid Soc. B.* 19:662-663. Dec.1950. 80 Am329
- 19674 ROWLEY, G. *Rhinephyllum broomii* L. Bolus, a choice stemless *Mesembryanthemum*. *Roy. Hort. Soc. J.* 75:487-488. Dec.1950. 84 L84J
- 19675 ROWNTREE, L. Desert plants for your garden. *Flower Grower* 38:56-57,83-84. Jan.1951. 80 M72
- 19676 RUSSELL, J. L. Plants in the house. *Gard. Illus.* 67:307. Dec.1950. 80 G169
- 19677 SAMPSON, D. K. Madagascar periwinkle [*Lochnera rosea*] for sunny spots. *Nature Mag.* 44:41-42. Jan.1951. 409.6 N214
- 19678 SANDAHL, P. L. Lilacs at Ewing Park, Des Moines. *Iowa State Hort. Soc. Trans.* 84:164-169. 1949. 81 I09
- 19679 SANDBERG, O. New friends in the house. (In Swedish.) *Trädgårdstidningen* 22(11):19. Nov.1950. 80 T67
- House plants.
- 19680 SCHMITT, R. J. Cutting Dahlias. (In Dutch.) *Vakbl. v. de Bloemisterij* 5:348. Oct.27,1950. 80 V22
- 19681 SCHNEIDER, C. From a German hybridizer, three new annuals. *Horticulture* 29:17. Jan.1951. 80 H787
- Hybrids in *Verbena*, *Gaillardia*, and *Coreopsis*.
- 19682 SCOTT, E. L., and SCOTT, A. H. Beginner's luck with Camellias. *Flower Grower* 37(12):28-29,48-49. Dec.1950. 80 M72
- 19683 SENNELS, N. J. Better summer flowers according to American methods. (In Danish.) *Frø og Gart.* 15:46-49. Aug.1950. 80 F92
- 19684 SHEPHERD, R. E. Make use of shrub roses. *Flower Grower* 38(2):38-39,56-58. Feb.1951. 80 M72
- 19685 SHERMAN, H. M. Gladiolus reviews and previews; *Flower Grower's* annual guide to the best new and recently introduced varieties. *Flower Grower* 38(2):35-37,66-69. Feb.1951. 80 M72
- 19686 SHEWELL-COOPER, W. E. Standardisation for perennial flowers. *Fruit, Flower & Veg. Trades' J.* 98(18):28. Oct.28,1950. 80 F946
- 19687 SHIPPY, B. L. A collector's notes on ivies new and old. *Flower Grower* 37(12):34-35,50-52. Dec. 1950. 80 M72
- 19688 SHOEMAKER, A. House plants to brighten dark corners. *Gard. & Gard. Chron.* 54(8):34-35. Dec. 1950. 80 G1632
- 19689 SHORT, H. F. "The Camellia" for good landscaping. *Camellian* 1:18. June 1950. 97.31 C14
- 19690 SHORT, H. F. What do we want in new seedling Camellias. *Camellia Rev.* 12(2):3-4. Nov.1950. 97.31 S082
- 19691 SIPKES, C. A remarkable garden and a remarkable garden book. (In Dutch.) *Nederland. Heide-maatsch. Tijdschr.* 61:334-338. Nov.1950. 12 N282



- 19692 SJÖBERG, G. H. New look in window garden. (In Swedish.) Trädgårdstidningen 22(11):15,30. Nov. 1950. 80 T87
- 19693 SMITH, J. R. Grafted honey locust [Gleditsia]. Md. Gard. 4(12):14. Dec.1950. 80 M362
- 19694 SØRENSEN, F. The new hedge law. (In Danish.) Haven 50:167-168. Dec.1950. 80 H29
- 19695 SPAIN, R. L. It's easy to grow your own glass jar roses. Horticulture 28:418. Nov.1950. 80 H787
- 19696 SPAIN, R. L. Peonies for the South. Gard. & Gard. Chron. 54(7):82-85. Oct.1950. 80 G1632
- 19697 SQUIRE, C. H. Why we like an old-fashioned garden. Amer. Rose Mag. 9(3):20-21. Nov./Dec.1950. 80 Am327A
- 19698 STAUTEMAS, E. Planting and care of the lawn. (In Flemish.) Tuinbouwberichten 14:170-171. Nov.15,1950. 80 T817
- 19699 STAUTEMAS, E. Wintering of chrysanthemums. (In Flemish.) Tuinbouwberichten 14:169. Nov. 15,1950. 80 T817
- 19700 STEFFEK, E. F. You don't have to be an expert to follow the A-B-C's of a good lawn. Gard. & Gard. Chron. 54(7):22-27. Oct.1950. 80 G1632
- 19701 STEFFEN, L. Entwicklung und stand der schleswig-holsteinischen tulpenkulturen. Saatgut-Wirtsch. 2:176. Aug.1950. 61.8 Sa1
- 19702 TEGTMEIER, A. The versatile sea-pinks [Statice]. Gard. & Gard. Chron. 54(7):32,85. Oct.1950. 80 G1632
- 19703 TIEMANN, O. R. A mid-western wild flower [Penstemon cobaea]; try this in your garden. Horticulture 29:28. Jan.1951. 80 H787
- 19704 TORRANCE, D. J., JR. Elementary genetics with special reference to orchid hybridization. I-III. Nowest. Orchid B. 1(10):10-13;(11):9-12;(12):9-11. (Cont.) Sept.-Nov.1950. 96.2 N81
- 19705 TOURJE, E. C. South Carolina Camellia garden takes a bow. Camellian 1:6-7. June 1950. 97.31 C14
- 19706 TURNER, A. B. Open your home to your garden. Gard. & Gard. Chron. 54(7):48-49. Oct.1950. 80 G1632
- House plants.
- 19707 VADÉ, S. Pour changer le visage de votre jardin. Vie à la Campagne 39:337-338. Oct.1950. 80 V87
- 19708 VADÉ, S. Quand les tulipes fleurissent au soleil artificiel. Vie à la Campagne 39:360-362. Nov. 1950. 80 V67
- 19709 VLIET, R. W. The modern Gloxinia. Flower Grower 38:54-55,66-68. Jan.1951. 80 M72
- 19710 WAGNER, W. Bouvardia culture. (In Norwegian.) Gartneryrket 40:831,836. Dec.2,1950. 80 G1938
- 19711 WALKER, J., and ROBINSON, D. R., comps. A list of flowers, shrubs, vines and trees recommended for Saskatchewan gardens. Saskatchewan U. Col. Agr. Ext. B. 127,17 p. 1950. 7 Sa76A
- 19712 WARD, J. D. U. Avenue trees: past, present, and future. Town & Country Planning 18:519-521. Dec.1950. 98.58 T66
- 19713 WASSCHER, J. Artificial illumination of ornamental plants. I-II. (In Dutch.) Vakbl. v. de Bloemisterij 5:389,396-397. Dec.1-8,1950. 80 V22
- 19714 WEBB, F. R. The best of the floribundas. Flower Grower 38(2):20-23. Feb.1951. 80 M72
- Rosa.
- 19715 WEINHAUSEN, K. Erstrebenswerte ziele in der Cyclamenzüchtung. Saatgut-Wirtsch. 2:177. Aug. 1950. 61.8 Sa1
- 19716 WENDELBURG, T. R. Plants that attract birds. Iowa State Hort. Soc. Trans. 84:169-184. 1949. 81 Io9
- 19717 WHEELER, W. Hollies are rugged. Horticulture 28:442. Dec.1950. 80 H787
- 19718 WILCOX, M. The tougher it gets, the better they like it. Camellia Rev. 12(2):15,23-24. Nov.1950. 97.31 So82
- 19719 WILLIAMS, R. O. The white Bougainvillea. Roy. Hort. Soc. J. 75:485-486. Dec.1950. 84 L84J
- 19720 WILSON, G. Linden's Pescatorea. Orchid Rev. 58:152. Nov.1950. 80 Or15
- 19721 WILSON, G. Woolward's "genus Masdevallia." Orchid Rev. 58:139-140. Oct.1950. 80 Or15
- 19722 WING, A. S. Have your own hollies. Nature Mag. 43:517-519. Dec.1950. 409.6 N214
- 19723 WISTER, J. C. Tree peony propagation. Gard. Club Amer. B. 38(6):76-80. Nov.1950. 90.32 G16
- 19724 WITTOCK, M. Experiments with slips of Sansevieria. (In Flemish.) Tuinbouwberichten 14:153-155. Oct.15,1950. 80 T817
- 19725 WOOD, C. W. For many uses, look to the landlubbers among the Lathyrus. Gard. & Gard. Chron. 54(8):96-97. Dec.1950. 80 G1632
- 19726 WOODCOCK, H. D., and STEARN, W. T. Lilies of the world, their cultivation & classification. New York, Scribner, 1950. 431 p. 96.46 W85L
- 19727 WOODRUFF, W. E. A Camellia nomenclature book. Camellian 1:25-26. June 1950. 97.31 C14
- 19728 WRIGHT, P. H. Interesting new and hardy plants, from Siberia to Canada. Horticulture 29:18. Jan. 1951. 80 H787
- 19729 YOUNG, C. A., JR. American holly. Md. Gard 4(12):16-17. Dec.1950. 80 M362
- Vegetable and Truck Crops (Including Potatoes)**
- 19730 AICHER, I. Gemüsetreiberei im neuen was-serbeetkulturfahrten. Gärt.-Kur. 5(20):1-3. Oct.15, 1950. 80 G1942
- 19731 ALBAN, E. K. Effects of three night temperatures on yield, maturity and keeping quality of greenhouse tomatoes. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:188,189,190,192-193. 1950. 75.9 Oh3
- 19732 BALINT, G. J. Cultivated mushroom and mushroom bed examinations. (In Hungarian.) Agrár-tudomány 2:531-537. Ref. Sept.1950. 19 Ag83
- English summary.
- 19733 BANDEIRA, A. T. Indicaciones prácticas para el cultivo del garbanzo. (Extr.) Campo [La Paz] 4(40/41): 27,29,31,33. Aug./Sept.1950. 9.1 C15
- 19734 BAUR, K., STITT, L. L., and MOORE, J. F. Carrot production in western Washington. Wash. Agr. Expt. Sta. C. 93,3 p. Apr.1950. 100 W27S
- 19735 BAUR, K., MOORE, J. F., and STITT, L. L. Growing sweet corn in western Washington. Wash. Agr. Expt. Sta. C. 96,3 p. Apr.1950. 100 W27S
- 19736 BECKER, G., and VOGEL, P. Rettich und radies. In Roemer, T., and Rudolf, W. Handbuch der pflanzenzüchtung 5:354-368. Berlin, Parey, 1949. 64 R66
- 19737 BEDOUET, J. Un aspect du problème de la conservation en Bretagne. Pomme de Terre Franç. 13 (134):12-14. Nov.1950. 75.8 P77
- 19738 BELS, P. J. International conference on mushroom culture. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:789-790. Oct.1950. 86 N384
- In Peterborough, England.
- 19739 BENDER, E. K. Ten suggestions for growing tomatoes in the home garden. Md. Agr. Col. Ext. Misc. P. 117,1 p. May 1950. 275.29 M36Mis
- 19740 BERWICK, E. J. H., and KING, T. A. Vegetable variety trials at Cameron Highlands in 1949. Malayan Agr. J. 33:119-135. July 1950. 22.5 F312
- 19741 BLOM, G. What possibilities does artificial illumination offer to cucumber and tomato plants. (In Dutch.) Groenten en Fruit 6:253,255. Oct.12,1950. 80 G89
- 19742 BONIFACIO, F. Le froid dans la conservation des pommes de terre de semences. Génie Rur. 43:330-332. Oct.1950. 58.8 Au8
- 19743 BORISOV, V. IA. Dynamics of root system development of early Nomer Pervyi cabbage and determining the method for obtaining high yields. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriazeva. Dok. 11:225-228. 1949. 20 M857
- 19744 BOUHELIER, R. Notes sur la culture de la tomate. Chambre Franç. d'Agr. des Régions de Rabat, du Rharb et d'Ouezzan. B. 16:2369-2371. Oct.1950. 24 C352
- 19745 BREMER, A. H. Norwegian onion culture. (In Norwegian.) Gartneryrket 40:796-798. Nov.18,1950. 80 G1938
- 19746 BREMER, A. H. Salat, Lactuca sativa L. In Roemer, T., and Rudolf, W. Handbuch der pflanzenzüchtung 5:338-353. Ref. Berlin, Parey, 1949. 64 R66
- 19747 BROWN, H. D. History of the Vegetable Growers Association of America, Inc. Mkt. Growers J. 79(11):16-19,26-27. Nov.1950. 6 M34
- 19748 BURAKOV, IA. N. Practices for obtaining high yields of potatoes. (In Russian.) Sad i Ogorod 1950(9): 67-68. Sept.1950. 80 Sa13
- 19749 BURKHART, L. Arizona lettuce improvement. West. Grower & Shipper 22:25-26. Dec.1950. 280.38 W52



- 19750 BUSHNELL, J. Reducing the cracking of stalked tomatoes. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:114-118. 1950. 75.9 Oh3
- 19751 CALZADA B., J. Variedades de camote que debe difundirse en la costa. Agronomía [Lima] 15(63):43-51. Sept./Oct.1950. 9.8 Ag83
- 19752 CAMARGO, L. DE S. Artichoke culture. (In Portuguese.) Vamos para o Campo 57,27 p. 1950. 9.2 V25
- 19753 CAMPBELL, L., and others. Growing pole beans in western Washington. Wash. Agr. Expt. Sta. C. 89,5 p. Apr.1950. 100 W27S
- K. Baur, L. L. Stitt, and J. F. Moore, joint authors.
- 19754 CAMPBELL, L., and others. Growing pole peas for fresh market in western Washington. Wash. Agr. Expt. Sta. C. 91,3 p. Apr.1950. 100 W27S
- L. L. Stitt, K. Baur, and J. F. Moore, joint authors.
- 19755 CHILDERS, N. F., and others. Vegetable gardening in the Tropics. P. R. Fed. Expt. Sta. (Mayaguez) C. 32,144 p. Ref. 1950. 1 Ex65
- H. F. Winters, P. Seguinot Robles, and H. K. Plank, joint authors.
- Complete revision of and supersedes Bulletin 7.
- 19756 CLARAMUNT, T. El cultivo de porotos. Uruguay. Inst. Nac. de Colon. B. 1(9):1-7. Oct.1950. 282.29 Ur8
- 19757 CONNECTICUT VEGETABLE GROWERS' ASSOCIATION. Proceedings of the thirty-seventh annual meeting, Willimantic Armory, Willimantic, Connecticut, December 15 and 16, 1949. n.p., 1949. 81 p. 75.9 C76
- 19758 DANVIG, A. M. Køkken gartneriet under glass og på friland [Kitchen gardening; under glass and in open fields]. 4. København, Dansk Studieforslag, 1950? p.201-264. (Dansk Erhvervsgartneris Handbog) 91 D23
- Vegetables.
- 19759 EMILSSON, B. Influence of greensprouting seed potatoes on yield. (In Swedish.) Lantbrakad. Tidskr. 80:315-339. Ref. 1950. 104 Sw3
- English summary.
- 19760 EYSTER, W. H. Winter gardening; continue your garden during the winter with cool-temperature vegetables. Org. Gard. 17(6):16-17. Dec.1950. 56.8 Or3
- 19761 FLAWN, L. Early spring lettuce—a mainstay. Fruit, Flower & Veg. Trades' J. 98(15):25. Oct.7, 1950. 80 F946
- 19762 FURUYA, H. Sosai saishu engai [Harvesting vegetable seeds]. Tokyo, Chikyu Shuppan, 1949. 449 p. 91 F98
- 19763 GALINAT, W. C., and EVERETT, H. L. Sweet corn breeding program in Connecticut. West. Canner & Packer 41(13):51,53,55. Dec.1950. 286.83 W522
- 19764 GALINAT, W. C. Sweet corn report, Mt. Carmel and Windsor, Connecticut. Conn. (State) Agr. Expt. Sta. Rpt. Prog. 50G2, 9 p. Jan.2, 1951. 100 C763S
- 19765 GONDRIY, J. Pour conserver vos pommes de terre de semence adoptez-vous: germeir, frigorifique, cave éclairée? Vie à la Campagne 39:322-323. Oct.1950. 80 V67
- 19766 GORIS, J. Problems in vegetable breeding. I-II. (In Flemish.) Tuinbouwberichten 14:163-164, 182-183. Nov.15-Dec.15, 1950. 80 T817
- 19767 GUZMÁN, V. L., and PAÉZ, J. Experimentos comparativos de variedades de vainitas. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:84-89. Nov.1950. 8 M577Fm
- 19768 GUZMAN, V. L. Producción de maíz dulce para mesa en el Perú. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:154-163. Nov.1950. 8 M577Fm
- 19769 HARPER, R. E. An improved variety of chile for New Mexico. N. Mex. Agr. Expt. Sta. Press B. 1041, 4 p. Apr.1950. 100 N465
- 19770 HAWKES, J. G. El programa del mejoramiento de la papa en Colombia. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:201-213. Nov.1950. 8 M577Fm
- 19771 HEYN, H. Gemüseerbsen. In Roemer, T., and Rudolf, W. Handbuch der pflanzenzüchtung 5:318-337. Ref. Berlin, Parey, 1949. 64 R66
- 19772 HIDAKA, Y. Shiki sosai no zosan gijitsu [Technique of increasing the products of vegetables in four seasons]. Nogyo Kenkyu Shinso 1,123 p. Tokyo, 1950. 22.5 N6873
- 19773 HOFFMAN, I. C. What's new in greenhouse crops research. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:180,182,184. 1950. 75.9 Oh3
- 19774 HOME GROWN THRESHED PEAS JOINT COMMITTEE. Dried pea seed approval scheme, 1950 harvest. Report on field inspection and grading scheme for home grown seed. London, 1950. 10 p. 60.39 H75Hg
- 19775 HOWLETT, F. S. The use of hormones in vegetable crop production. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:34-50. 1950. 75.9 Oh3
- 19776 INIGUEZ GARCIA, J. El cultivo de las coles: variedades. Tierra [Mexico] 5:535-537, 563-567, 604-607, 636-638. Oct.-Nov.1950. 8 T445
- 19777 IVANOFF, S. S. Better Mississippi melons aim of plant breeders. Miss. Farm Res. [Miss. Sta.] 13(11):2. Nov.1950. 100 M69M1
- 19778 JESSEN, L. S. Grow carrots. Hawaii Farm & Home 13(11):31. Nov.1950. 25 H3191
- 19779 JESSEN, L. S. Now's the time for cabbage. Hawaii Farm & Home 13(12):27,39. Dec.1950. 25 H3191
- Cabbage culture.
- 19780 JOHNSTONE, F. E., JR. Vegetable variety trials and breeding 1949. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:51-55. 1950. 75.9 Oh3
- 19781 KLOEN, D. Vernalization of turnip. (In Dutch.) Zaaibelanden 4:471-473, 478-480. Oct.31-Nov.15, 1950. 61.8 Z1
- 19782 KNIGHT, L. What should a vegetable grower do? Grower [London] 34:1169. Dec.2, 1950. 286.83 M34
- 19783 LA FRAMBOISE, A. V. History of the Brooklyn Vegetable Growers Association. Conn. Veg. Growers' Assoc. Proc. 37:72-73. 1949. 75.9 C76
- 19784 LAMPRECHT, H. Gemüsekohlarten. In Roemer, T., and Rudolf, W. Handbuch der pflanzenzüchtung 5:290-318. Ref. Berlin, Parey, 1949. 64 R66
- 19785 LOADS, F. W., and FOGG, H. G. W. My favourite vegetable varieties. Smallholder 84(2115):9; (2116):9; (2117):9; (2118):9. Dec.1-22, 1950. 10 Sml
- 19786 MCALPIN, D. M. "Certified" and "approved" vegetable seeds. Victoria. Dept. Agr. J. 48:417-419. Sept.1950. 23 V66J
- 19787 MCARTHUR, W. C., BONNEN, C. A., and MAGEE, A. C. Production practices for Irish potatoes on the High Plains of Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1301, 7 p. Dec.15, 1950. 100 T31P
- 19788 MAKSIMOVICH, M. M. Developing supplies of selected potato seed. (In Russian.) Sad i Ogorod 1950 (9):64-67. Sept.1950. 80 Sa13
- 19789 MOORE, J. F., and others. Growing onions in western Washington. Wash. Agr. Expt. Sta. C. 95,3 p. Apr.1950. 100 W27S
- L. L. Stitt, L. Campbell, and K. Baur, joint authors.
- 19790 MOORE, J. F., and others. Growing sprouting broccoli in western Washington. Wash. Agr. Expt. Sta. C. 88,4 p. Apr.1950. 100 W27S
- K. Baur, L. L. Stitt, and L. Campbell, joint authors.
- 19791 MOORE, J. F., and others. Growing tomatoes in the Puget Sound region of western Washington. Wash. Agr. Expt. Sta. C. 92,4 p. Apr.1950. 100 W27S
- K. Baur, L. Campbell, and L. L. Stitt, joint authors.
- 19792 MORRISON, G. The cabbage tribe of vegetables. II. Seed World 68:10,52-53. Jan.5, 1951. 61.8 Se52
- 19793 MOS, D. DE., and GROENEWEGEN, J. H. Experiences with the culture of tomatoes in 1950. (In Dutch) Groenten en Fruit 6:224,269,293. Sept.28, Oct.19-26, 1950. 80 G89
- 19794 MUTIA, C. Pechay culture. Plowman 6:8. Oct.1950. 276.8 P72
- Chinese cabbage, pakchoi.
- 19795 NETHERLANDS. RIJKSINSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Consumptieaardappels, 1950 [Consumer potatoes, 1950]. Netherlands. Rinst. v. Rassenonderz. van Landbouwgewassen. Ber. over Rassenkeuze 83,6 p. Aug.1950. 64.9 W12
- Varieties.
- 19796 NETHERLANDS. RIJKSINSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Exportaardappels, 1950 [Export potatoes, 1950]. Netherlands. Rinst. v. Rassenonderz. van Landbouwgewassen. Ber. over Rassenkeuze 85,4 p. Aug.1950. 64.9 W12
- Varieties.
- 19797 NETHERLANDS. RIJKSINSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Fabrieks- en voeraardappels, 1950 [Factory and feed potatoes, 1950]. Netherlands. Rinst. v. Rassenonderz. van Landbouwgewassen. Ber. over Rassenkeuze 84,3 p. Aug.1950. 64.9 W12
- Varieties.
- 19798 NORDGAARD, K. Experiments with turnip garden parsley. (In Danish.) Haven 50:156-157. Nov. 1950. 80 H29
- 19799 NOVIKOFF, V. A. Les cultures maraichères en Tunisie: maïs hybrides. Tunisie. Serv. Bot. et Agron. B. 18,16 p. Feb.1950. 108 T832B



19800 OHIO VEGETABLE AND POTATO GROWERS ASSOCIATION. 35th annual proceedings, 1950. n.p., 1950. 207 p. 75.9 Oh3

19801 ORMAN, A. C. Importance of good quality seed to vegetable growers. *Seed & Nursery Trader* 48 (11):10. Nov.20,1950. 80 Au72

19802 OVERSACQ, J. Les plantes qui guerissent: la carotte. *Cour. Hort.* 12:503-504. Sept.1950. 80 C834

19803 PALMER, E. Tested seeds, a food war weapon. *Veldtrust* 11(9):22-25. Sept.1950. 56.8 V54  
Vegetable seed.

19804 PANOV, M. A. Onions of the North [*Allium victorialis* and *A. ursinum*]. (In Russian.) *Sad i Ogorod* 1950(9):72-73. Sept.1950. 80 Sa13

19805 PEARSON, O. New varieties of vegetables for 1950. *Conn. Veg. Growers' Assoc. Proc.* 37:24-41. 1949. 75.9 C76

19806 PLINKA, A. D. Agricultural practices for growing onions in one year by autumn sowing. (In Russian.) *Sad i Ogorod* 1950(9):49-50. Sept.1950. 80 Sa13

19807 PRITSCHAU, E. Tagesfragen des kartoffelbaues. *Kartoffelbau* 1:97-101. Oct.1950. 75.8 K145  
Germany.

19808 REYNARD, La Belle de Fontenay. *Pomme de Terre Franç.* 13(134):15-17. Nov.1950. 75.8 P77

19809 ROSENSTIEL, K. VON. Lohnt sich der anbau von wintererbsen? *Saatgut-Wirt.* 2:223-224. Oct.1950. 61.8 Sa1

19810 SCHERMERHORN, L. G. Introducing, "Queens," early market tomato for New Jersey. *N. J. State Hort. Soc. Hort. News* 31:2307,2314. Nov.1950. 81 N46

19811 SCHULTZ, J. H. Squash and pumpkins in North Dakota. *Iowa State Hort. Soc. Trans.* 84:223-227. 1949. 81 Io9

19812 SENNELS, and DUVALD. New experiments with lettuce and flower breeding. (In Danish.) *Frø og Gart.* 15:23-26. May 1950. 80 F92

19813 SHEV'EV, E. I. Potato harvesting in the Moscow Area. (In Russian.) *Sad i Ogorod* 1950(9):61-64. Sept.1950. 80 Sa13

19814 SJÖBECK, E. Watercress; glimpses about a Danish specialty culture. (In Swedish.) *Weibulls Allehanda* 10:35-38. 1950. 80 W42

19815 SOMOS, A. Zur kenntniss der gelbhülsigen buschbohnen. (In Hungarian.) *Agártudo. Egyetér Kertés Szőlőgazdaságtudo. Karának. Közlem.* 13:137-152. 1949. 80 B85  
German summary.

19816 STITT, L. L., and others. Growing cabbage in western Washington. *Wash. Agr. Expt. Sta. C.* 94,4 p. Apr.1950. 100 W27S

L. Campbell, K. Baur, and J. F. Moore, joint authors. 19817 SWAMINATHAN, M. S. Wild relatives in potato breeding. *Farming* 4:370-373. Dec.1950. 10 F2236

19818 TAMMAN, A. I. On potato harvesting. (In Russian.) *Sad i Ogorod* 1950(9):59-61. Sept.1950. 80 Sa13

19819 TERRY, H. B. The growing of sweet potatoes. *Transkeian Ter. Agr. Dept. Umcebisi Womlimi Nomfuyi* 27(4):39-40. Nov.1950. 24 T684  
Union of South Africa.

19820 URSO, R. D'. Technical and economic aspects of early potato culture in Sicily. (In Italian.) *Tec. Agr.* 2:120-133. July/Oct.1950. 16 T22

19821 VAN BLOMMESTEIN, J. A. Should tomatoes be trained? *Farming So. Africa* 25:329. Oct.1950. 24 So842

19822 VARGAS C., C. Algunos resultados de investigaciones con papas nativas peruanas. *Mex. Ofic. de Estud. Espec. Fol. Misc.* 3:187-200. Nov.1950. 8 M577Fm

19823 VOGT, W. Die hannoverschen pflanzkartoffelvermehrer nehmen den kampf gegen die "saatsortierten speisekartoffeln" auf. *Kartoffelbau* 1:102-103. Oct.1950. 75.8 K145

19824 VORSTER, P. W. Cultural experiments with onions in the Transvaal. I. Suitable varieties. *Farming So. Africa* 25:313-315,328. Oct.1950. 24 So842

19825 WASHINGTON. AGRICULTURAL EXPERIMENT STATION. Growing potatoes in western Washington. *Wash. Agr. Expt. Sta. C.* 97,6 p. Apr.1950. 100 W27S

19826 WELCH, J. H. Notable success in Valley caneloupe breeding. *Tex. Farming & Citric.* 27(6):5. Dec. 1950. 80 T31

19827 YEAGER, A. F. Breeding improved horticultural plants. I. Vegetables. *N. H. Agr. Expt. Sta. B.* 380, 23 p. Apr.1950. 100 N45

## WEEDS AND POISONOUS PLANTS

19828 ASHBAUGH, F. A. Chemical right-of-way brush control has grown up. *Down to Earth* 6(3):2-4. Winter 1950. 381 D75

19829 BALCOM, R. B. How about TCA? A new weed killer for grasses. *Reclam. Era* 37:6-7,18. Jan.1951. 156.84 R24

19830 BAPTISTE, W. Description of mechanical control of Manienie [*Cynodon dactylon*] at Kilauea Sugar Plantation Company. *Hawaii. Sugar Technol. Rpt.* 9:17-18. 1950. 65.9 H317

19831 BEALE, F. A. Herbicidas al cultivar los cañaverales. *Tierra Libre (ser.2)* 14(9):5-6. Sept.1950. 8 T443

19832 BEARD, J. S. Weed eradication in Union's wattle plantations; successful experiments prove chemical preparations best weapon. *Farmer's Wk. [Bloemfontein]* 80:10-11,13. Nov.1,1950. 24 F225

19833 BRUTO, F. R. Missouri Highway Department tests 2,4-D, 2,4,5-T and T C A. *Down to Earth* 6(3):9-10. Winter 1950. 381 D75  
Brush control.

19834 CANADA. DEPT. OF AGRICULTURE. INFORMATION SERV. Cultural control of deep-rooted perennial weeds. *Ottawa, 1950.* 2 p. 79 C163

19835 CARAZO, A. M. Aplicación económica del 2-4D. *Rev. de Agr., Com. e Indus. [Panama]* 8(110):23. Oct.1950. 8 R3291

19836 CARLETON, M. Kill that tough brush this winter; you can score a dormant-season knockout against woody plants by spraying basal stems with 2,4-D and 2,4,5-T in oil. *Country Gent.* 120(12):22,58. Dec.1950. 6 C833

19837 COHEN, G. Weed control by chemical means. (In Hebrew) n.p., 1949. 9 p. 79 C66

19838 CONNOR, H. E. Poisonous plants in New Zealand. *New Zeal. J. Agr.* 81:317-320,461,463-464. Oct.-Nov.1950. 23 N48J

19839 DORAN, C. W. Control of orange sneezeweed [*Helenium hoopesii*] with 2,4-D. *J. Range Mangt.* 4:11-15. Jan.1951. 60.18 J82

19840 EASTERBROOK, L. F. Descubrimiento fortuito de un hormón vegetal que mata las malas hierbas. *Rev. Nac. de Agr. [Bogotá]* 44(546):52-53. Oct.1950. 9.4 R32

19841 EGE, E. A dangerous weed. Yellow field-cress. -*Roripa silvestris* L. (In Norwegian.) *Norsk Hagetidend* 66:224-225. Dec.1,1950. 80 N81

19842 EVANS, L. S. Chemicals for drainage ditch maintenance. *Agr. Engin.* 31:617-620. Dec.1950. 58.8 Ag83  
Weed control.

19843 EVANS, L. S. Research leads the fight against weeds. *Crops & Soils* 3(4):14-17,30. Jan.1951. 6 W55

19844 FISHER, C. E., and YOUNG, D. W. Chemicals will kill mesquite. *Better Farming Methods* 23:11,64-65. Jan.1951. 58.8 B46

19845 GLENDENING, G. E. Noxious tree and shrub invasion and control in Arizona. *Ariz. Cattlelog* 6(2):18-21. Oct.1950. 43.8 Ar42

19846 GRECO, E. C. 2,4-D eradicates water hyacinth. *Oil & Gas J.* 49(36):85. Jan.11,1951. 401.8 Oi52

19847 GRIGSBY, B. Crabgrass control experiments in Michigan. *Greenkeepers' Rptr.* 18(5):20-22. Sept./Oct. 1950. 60.18 G83

19848 HANEY, T. G. Chemicals for the control of weeds and nematodes in tobacco seed-beds. *Austral. Inst. Agr. Sci. J.* 16:109. Sept.1950. 23 Au74

19849 HARADA, K. Manienie [*Cynodon dactylon*] control by sodium trichloroacetate at Kilauea Sugar Plantation Company. *Hawaii. Sugar Technol. Rpt.* 9:18-19. 1950. 65.9 H317

19850 HARRISON, R. L. Queensland needs a proper plan to deal with noxious weeds. *Queensland Prod.* 32(12):4-5. Sept.20,1950. 23 Q35

19851 HODGSON, J. M. Electrocuting of weeds, widely advertised, not successful in Idaho field experiments. *Crops & Soils* 3(3):25. Dec.1950. 6 W55

19852 HOFSTEN, C. G. VON. Spraying against bushes (In Swedish.) *Lantmannen* 34:771-772. Oct.7,1950. 11 L234



- 19853 HOFSTEN, C. G. VON. Spraying of fall grain against weeds. (In Swedish.) *Lantmannen* 34:747-750. Sept.30,1950. 11 L234
- 19854 HOLMES, E. Hormones against weeds; ten years of rapid developments only a prelude to much wider use of these weedkillers in the future. *Farmer & Stock-Breeder Ybk.* 1951:67-70. 49 F22
- 19855 HOLMGREN, A. H. Halogeton invading eastern Utah winter ranges. *Farm & Home Sci.* [Utah Sta.] 11:87. Dec.1950. 100 U1f
- 19856 HUFF, L. Brush and mesquite control in West Texas major problem. *West Tex. Today* 31(10):8-9. Dec.1950. 286.8 W522
- 19857 INMAN, W. Kill weeds in '51; good [chemical] control is easier when you follow approved recommendations. *Wallaces' Farmer & Iowa Homestead* 76(1):5. Jan.6,1951. 6 W15
- 19858 INNES, D. Chemical agriculture. *Saskatchewan Farmer* 41(23):14-15. Dec.7,1950. 7 Sa74  
Chemical weed control.
- 19859 KRABBE, N. Hormone spraying. (In Danish.) *Dansk Landbr.* 69:455-457. Sept.7,1950. 280.28 V91  
Herbicides.
- 19860 LACHMAN, W. Weeding vegetable crops with chemicals. *Conn. Veg. Growers' Assoc. Proc.* 37:65-67. 1949. 75.9 C76
- 19861 LEE, O. C., and DOYLE, L. P. Indiana plants poisonous and injurious to livestock. *Purdue U. Agr. Ext. B.* 240, rev., 24 p. 1950? 275.29 In2E
- 19862 MCHARD, D. R. Put your brushland to work. *Crops & Soils* 3(3):14-15. Dec.1950. 6 W55  
Sagebrush eradication with 2,4-D.
- 19863 MARTIN, D. J. A cheap method of controlling weeds. *Hawaii. Sugar Technol. Rpt.* 9:23-24. 1950. 65.9 H317
- 19864 MEADLY, G. R. W. Recent developments in chemical weed control. *West. Austral. Dept. Agr. J.* (ser.2)27:193-198. June 1950. 23 W52J
- 19865 MENTZ, N. J., and ALTONA, R. E. The use of weedkillers in maize lands; increased yields and less cultivation follow pre-emergence spraying of soil. *Farmer's Wk.* [Bloemfontein] 80:13. Nov.1,1950. 24 F225  
Chiefly 2, 4-D.
- 19866 NYHOLM, I. Use of flame throwers and highly refined petroleum naphtha for control of weeds in nurseries. (In Danish.) *Dansk Skovfor. Tidsskr.* 35:528-536. Oct.1950. 99.8 D23
- 19867 OTTOSSON, L. Control of weeds in peas. (In Swedish.) *Lantmannen* 34:827-829. Oct.28,1950. 11 L234
- 19868 PASTAC, I. Nouvelle application des colorants nitrés; desherbage chimique des vergers. (Abs.) *Chim. & Indus.* 64(3,spec.no.):114. Sept.1950. 383 C42
- 19869 RICHARDSON, W., JR. Weed pest eradication and control. *Hawaii. Sugar Technol. Rpt.* 9:24-27. 1950. 65.9 H317
- 19870 ROBINS, W. W. Weed problems in Latin American lands. *Down to Earth* 6(3):11-12. Winter 1950 381 D75
- 19871 SCHENK, P. J. *Cuscuta campestris* on *Satureja hortensis*. (In Dutch.) *Groenten en Fruit* 6:292. Oct.26,1950. 80 G89
- 19872 SCHÖNBRUNNER, J. Zur unkrautbekämpfung mit chemischen mitteln. *Pflanzenarzt* 3(11):1-3. Nov.1, 1950. 464.9 P482
- 19873 SCHUTTER, B. DE. Control of weeds in carrots. (In Flemish.) *Tuinbouwberichten* 14:165-166. Nov.15,1950. 80 T817
- 19874 SHEEP-KILLING weed [Halogeton glomeratus]. *Life* 30(3):55-56. Jan.15,1951. 280.8 L62
- 19875 SMITH, N. G. Just how shall we deal with winter weeds? *Smallholder* 84(2116):18-19. Dec.8,1950. 10 Sm1
- 19876 SNIJDERS, J. H. Aspects of the research on the positive value of weeds. (In Dutch.) *Bergcultures* 19:391,393,395,397,399. Nov.1,1950. 22.5 B45
- 19877 SUGGITT, J. W. The chemical control of right-of-way growth. *Chem. Canada* 2:197-201. Dec. 1950. 381 C4236  
Woody brush.
- 19878 UEKI, K. Experiments controlling the weeds in the paddy field with 2,4,5-T. (Preliminary). (In Japanese.) *Botyu-Kagaku* 15:95-97. June 1950. 421 B65  
English summary.
- 19879 VILLAMIL G., F. Control de malezas en el maíz con 2,4-D. *Palmira. Estac. Agr. Expt. Notas Agron.* 3:143-144. May/Oct.1950. 102.5 P18N  
English summary.
- 19880 VITUM, M. T., and PATTERSON, M. E. Granular cyanamid controls weeds in peas. *Mkt. Growers J.* 79(12):14. Dec.1950. 6 M34
- 19881 WRIGHT, C. Menacing mesquite. *Amer. Forests* 57:10-12,37. Jan.1951. 99.8 F762
- 19882 ZWEIGELT, F. Phenoxal das hormon zur unkrautbekämpfung. *Gart.-Z. Illus. Flora* 73:121-123. Oct.1950. 80 G1991

# MISCELLANEOUS ECONOMIC PLANTS (Drug, Dye, Rubber, Etc.)

- 19883 BANKS, C. Sea weeds and their uses. *Housecraft* 23:233-236. Dec.1950. 321.8 H817
- 19884 BELT, J. B. M. VAN DEN. Dutch bee pasture. III. English ivy, a good, late honey plant. (In Dutch.) *Maandschr. v. Bijenteelt* 52:186-187. Dec.1950. 424.9 V58
- 19885 BRAUN, O. La jaca o arbol del pan. *Campo [La Paz]* 4(35):23-25. Mar.1950. 9.1 C15  
*Artocarpus*.
- 19886 BRAUN, O. El monocultivo de la coca en Yungas. *Campo [La Paz]* 4(34):13-14. Feb.1950. 9.1 C15  
Suggests cultivation of *Aleurites* as a substitute.
- 19887 BROUHNS, G. Quelques considérations sur la culture du cacaoyer au Congo Belge. *B. Agr. du Congo Belge* 41:925-992. Ref. Dec.1950. 24 K83
- 19888 CARVALHO, A. Coffee varieties and their improvement. (In Portuguese.) *São Paulo. Supt. dos Serv. do Café. B.* 25:687-693. (To be cont.) Sept.1950. 68.29 Sa63
- 19889 CARVALHO E VASCONCELLOS, J. DE, and FEIO, F. M. Plantas medicinais e aromáticas. *Portugal. Min. da Econ. Dir. Geral dos Serv. Agr. Sér. Estud. e Inform. Téc.* 34,200 p. Ref. 1949. 15.5 Ag84E
- 19890 CUNHA, J. F. Vanilla. (In Portuguese.) *Colhelt. e Mercados* 6:3-8. Jan./Feb.1950. 255.3 Sa652  
Culture.
- 19891 CURTIS, C. H. Between the parsley and the rue. *V.Mint. Young Farmer* 18:303-304. Nov./Dec. 1950. 10 Y8
- 19892 DANZEL, L. Derris et autres plantes à rotenone. *Rev. Internatl. des Prod. Colon.* 25:229-231. Dec. 1950. 286.8 R326
- 19893 DAVIS, J. H. Vetch—a door to profits for farmer and beekeeper. *Amer. Bee J.* 91:18-19. Jan.1951. 424.8 Am3  
Hairy vetch as a honey plant.
- 19894 ELSMAN, L. E. Horseradish (*Armoracia lapathifolia*). (In Dutch.) *Groenten en Fruit* 6:274. Oct. 19,1950. 80 G89
- 19895 EMDEN, J. H. VAN. On the growing of budwood of cacao. (In Dutch.) *Bergcultures* 19:405-407. Nov.1,1950. 22.5 B45
- 19896 FERNIE, L. M. The preparation of nursery beds and the sowing of coffee seed. *East African Agr. J.* 16:56-57. July 1950. 24 Ea74
- 19897 FILIPPOV, D. I. From the work of the Scientific-Research Institute of Rubber Plants. (In Russian.) *Agrobiologiya* 1950(5):128-131. Sept./Oct.1950. 20 Ag822  
Kok-saghyz culture mainly.
- 19898 FOSTER, G. B. Tropical zest from northern gardens, oregano is easily grown. *Horticulture* 29:19,34. Jan.1951. 80 H787
- 19899 GARCIA-FIERRO, B. F. El cultivo del lúpulo es un momio. *B. de Divulg. Ganad. [Valladolid]* 7:180-182. June 1950. 49.9 Sp12
- 19900 GARNETT, C. B. A short history of coffee growing in Nyasaland. *Nyasaland Agr. Q. J.* 9:1-5. Jan.1950. 24 N983
- 19901 HAARER, A. E. Robusta coffee planting. *Empire Prod.* 320:115-116. Nov./Dec.1950. 286.8 Em7
- 19902 HOOGWERFF, H. The culture and production of medicinal plants. (In Dutch.) *Nederlandse Ver. tot Bevord. der Biol.-Dyn. Landbmethode. Vruchtbare Aarde* 8:72-76. Sept.1950. 80 N28
- 19903 INDIAN TEA ASSOCIATION. Proceedings of the seventh annual conference held at Tocklai on the 28th, 29th, and 30th November, 1949. *Tocklai, 1949.* 44 p. 68.19 T562
- 19904 INDIAN TEA ASSOCIATION. SCIENTIFIC DEPT. Annual report, 1949. n.p.,1950. 68.19 T56
- 19905 IRIGOYEN. Comentario sobre poda del cafeto. *Rev. Ganad. [San Salvador]* 9(130/131):19,22. Sept./Oct. 1950. 8 R3292



- 19906 IZAWA, B. Korekarano yakuso saibai to saishu [Cultivation and collection of medicinal plants]. Tokyo, Azumi Shobo, 1949. 419 p. 71 Iz1
- 19907 KLYKKEN, O. Aleurites (candle nut tree and tung-oil tree). (In Norwegian.) Tidsskr. f. det Norske Landbr. 57:227-233. July/Aug. 1950. 11 T433
- 19908 LANG, W. Das "heidnisch wundkraut." Deut. Apoth. Ztg. 90:953-954. Dec. 8, 1950. 396.8 Su2  
Senecio fuchsi.
- 19909 LAYCOCK, D. H. Bringing young tea into bearing. Nyasaland Agr. Q. J. 9:5-8. Jan. 1950. 24 N983
- 19910 LEUPEN, F. F. Conuga coffee. (In Dutch.) Bergcultures 19:377, 379, 381, 383. Oct. 16, 1950. 22.5 B45
- 19911 LÓPEZ G., J. E. La flora medicinal peruana y su contribución a la industria química farmacéutica nacional. Cong. Peruano de Quim. Actas y Trab. 1949(2): 701-707. 385 C763
- 19912 LUNDBERG, G. An important honey plant Tatarian maple (*Acer tataricum*). (In Swedish.) Bitidningen 49:397-398. Dec. 1950. 424.8 B54
- 19913 MAMELI, E. Italian rhubarb. (In Italian.) (Abs.) Chim. & Indus. 64(3, spec. no.):76. Sept. 1950. 383 C42  
Culture and analysis.
- 19914 MARTIN, F. Le manioc. Agr. Prat. 114:565-566. Dec. 1950. 14 J82  
Culture.
- 19915 MENDES, J. E. T. Tests of coffee varieties. II. (In Portuguese.) Bragantia 9:81-101. May/Aug. 1949. 102.5 B73Tb  
English summary.
- 19916 MOLFINO, J. F. La semilla de "alholva" o "heno de grecia" su valor medicinal y alimenticio. Chacra 21(241):74-75. Dec. 1950. 9 C34  
Trigonella foenum-graecum.
- 19917 MUKERJI, B., and KARKUN, J. N. Indian aloes. Indian J. Pharm. 12:236-243. Aug. 1950. 396.8 In23
- 19918 NAUNDORF, G. Contribución a la propagación vegetativa del cacao (*Theobroma cacao* L.) por estacas. Palmira. Estac. Agr. Expt. Notas Agron. 3:155-166. Ref. May/Oct. 1950. 102.5 P18N
- 19919 NAUNDORF, G. Influencia de las lesiones mecánicas en el enraizamiento de estacas de *Theobroma cacao* L. Palmira. Estac. Agr. Expt. Notas Agron. 3:167-171. May/Oct. 1950. 102.5 P18N  
English summary.
- 19920 NEFF, M. S., and O'ROURKE, E. N., JR. A good root system is most important. Tung World 5(6):12-13. Oct. 1950. 77.8 T83
- 19921 PASSOS, H. DE G. Coffee: fertilizing, transplanting, and soil conservation. (In Portuguese.) Soc. Rur. Brasil. Rev. 30(359):51-55. Oct. 1950. 9.2 B733
- 19922 PIZARROSO CUENCA, A. El botánico Weddell y la quina. Campo [La Paz] 4(35):7-10. Mar. 1950. 9.1 C15
- 19923 POERCK, R. A. DE. Contributions à l'étude du palmier à huile africain (*Elaeis guineensis* Jacq.). II. Oleagineux 5:689-694. Ref. Dec. 1950. 77.8 OL2
- 19924 POLOVENKO, I. S. From the practices of leaders in kok-saghyz culture. (In Russian.) Sovet. Agron. 8(9):53-60. Sept. 1950. 20 S084
- 19925 RICHARDS, A. V. A note on the cultivation of Singapore jak [*Artocarpus heterophyllus*]. Trop. Agr. [Peradeniya] 106:12-13. Jan./Mar. 1950. 26 T751
- 19926 RUBBER RESEARCH INSTITUTE OF MALAYA. Report for the period January 1941 to August 1945. Kuala Lumpur, 1950. 108 p. 78.9 R824A
- 19927 SCHOFFELMAYER, V. H. New guayule hybrids under test in South Texas. Tex. Chemurg. News 6(6):1-2. Dec. 1, 1950. 381 T29
- 19928 SCHRODER, H. H. Spanish moss [*Tillandsia*], beautiful and useful. Nature Mag. 43:533-535. Dec. 1950. 409.6 N214
- 19929 SCHUBERT, A. Die poleiminze (*Mentha pulegium*). Niedersächs. Bienenfr. 1950:267. Sept. 1950. 424.8 N552
- 19930 SERRANO, C., and NAUNDORF, G. Algunos datos sobre la propagación vegetativa de la naranjilla o lulo de castilla (*Solanum quitoense* Lam.) y el enraizamiento de hijuelos de piña (*Ananas sativus* Schult.). Palmira. Estac. Agr. Expt. Notas Agron. 3:151-153. May/Oct. 1950. 102.5 P18N
- 19931 SOUZA, W. W. C. DE. Shading coffee plantings. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 25:606-617. Aug. 1950. 68.29 Sa63
- 19932 STEVENS, W. L. Statistical analysis of coffee variety tests. (In Portuguese.) Bragantia 9:103-123. May/Aug. 1949. 102.5 B73Tb  
English summary.
- 19933 TANGANYIKA. COFFEE RESEARCH AND EXPERIMENTAL STATION, LYAMUNGU, MOSHI. Fifteenth annual report, 1948. Tanganyika. Dept. Agr. Pam. 48,48 p. 1950. 24 T15P
- 19934 VELAZQUEZ C., A. Cultivo y aprovechamiento de la sarrapia. Agr. Venezol. 15(145):18-21. Aug. 1950. 9.95 Ag8
- 19935 VIEITEZ, E. Palynological observations on some Spanish honeys. Torrey Bot. Club. B. 77:495-502. Nov./Dec. 1950. 451 T63B

## SOILS AND FERTILIZERS

## SOIL SCIENCE

- 19936 BAKKER, G. DE. De bodemgesteldheid van enkele zuidbevelandse polders en hun geschiktheid voor de fruitteelt. Soil conditions of some Zuidbeveland polders and their adaptation for fruitgrowing. Netherlands. Dir. van de Landb. Verslagen van Landbk. Onderz. 56(14), 182 p. Ref. 1950. 105.2 V61V  
English summary.  
Have also map supplement.
- 19937 BAKKER, G. DE. The Fourth International Soil Science Congress. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:755-756. Oct. 1950. 86 N384  
In Amsterdam.
- 19938 BRUIN, P. The Fourth International Soil Science Congress and excursions to the Netherlands and Belgium in connection with it. (In Dutch.) T.N.O.-Nieuws 5:359-366. Nov. 1950. 475 T11
- 19939 CESAR, C. M., and KIEHL, E. J. Application of the "Voigt" method for taking permanent profile samples of subtropical soils. (In Portuguese.) Rev. de Agr. [Piracicaba] 25:305-312. Sept./Oct. 1950. 9.2 R324
- 19940 SHAW, B. T. What soils research means. Crops & Soils 3(3):7-9, 29. Dec. 1950. 6 W55
- 19941 VISSER, W. C. The F.A.O. Conference on Soil Science, Amsterdam 19-21 July 1950. (In Dutch.) Landbouwk. Tijdschr. [Wageningen] 62:842-846. Oct. 1950. 105.2 Or3

## Soil Physics

- 19942 BALEV, P. M. Effect of continuous cultivation of agricultural plants and application of fertilizers on properties of turfy-Podzolic soils. (In Russian.) Pochvovedenie 1950:542-549. Ref. Sept. 1950. 57.8 P34
- 19943 BRADFIELD, R. Soil structure. 1. West. Grower & Shipper 22(2):11, 21, 24-25, 38. Jan. 1951. 280.38 W52
- 19944 CAMPBELL, R. B., and RICHARDS, L. A. Some moisture and salinity relationships in peat soils. Agron. J. 42:582-585. Dec. 1950. 4 Am34P
- 19945 DOLGOV, S. I. Study of water content and physical properties of peat strata with the aid of cutting cylinders. (In Russian.) Pochven. Inst. im. V. V. Dokuchaeva. Trud. 31:239-251. 1950. 56.9 P44
- 19946 GLOVER, P. E. Rain-water penetration in British Somaliland soils. East African Agr. J. 16:26-33. Ref. July 1950. 24 Ea74
- 19947 HOOGHOUTD, S. B. De drukvastheid, de buigvastheid, de slagbuigvastheid, de trekvastheid en de hardheid van gronden in gedroogde toestand. The modulus of rupture by pressure, by bend, by smash and by tear, and the hardness of soils in the dried state. Netherlands. Dir. van de Landb. Verslagen van Landbk. Onderz. 56(3), 209 p. 1950. 105.2 V61V  
English summary.
- 19948 KOLIÁSEV, F. E., and BEL'SKAIA, M. A. Testing new device for measuring the actual quantity of soil [moisture] evaporation. (In Russian.) Vsesoiūzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(11):42-47. 1950. 20 Ak1
- 19949 LOCSIN, C. L. Soil moisture studies. Sugar News 26:451-452. Sept. 1950. 65.8 Su36
- 19950 MARSHALL, T. J., and STIRK, G. B. The effect of lateral movement of water in soil on infiltration measurements. Austral. J. Agr. Res. 1:253-265. Ref. July 1950. 23 Au783



- 19951 MARSHALL, T. J., and QUIRK, J. P. Stability of structural aggregates of dry soil. *Austral. J. Agr. Res.* 1:266-275. Ref. July 1950. 23 Au783
- 19952 ORR, C., JR. Fine particles; the fertility of the soil, the color of the sky and a multitude of other things depend on bits of matter either barely visible or smaller than the eye can see. *Sci. Amer.* 183(6):50-53. Dec.1950. 470 Sci25
- 19953 PEELE, T. C., and BEALE, O. W. Relation of moisture equivalent to field capacity and moisture retained at 15 atmospheres pressure to the wilting percentage. *Agron. J.* 42:604-607. Ref. Dec.1950. 4 Am34P
- 19954 QUIRK, J. P. The measurement of stability of soil micro-aggregates in water. *Austral. J. Agr. Res.* 1:276-284. July 1950. 23 Au783
- 19955 RIGOR, E. L. Reference points of soil moisture essential in scientific irrigation practice. *Philippine Agr. Engin. J.* 1:25-26. Ref. First Q.1950. 58.8 Ag88
- 19956 VASIL'EV, I. S. Experiment in comparative evaluation of Rykachev's and Popov's lysimeters. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 31:96-147. Ref. 1950. 56.9 P44
- For measuring soil moisture evaporation.
- 19957 VASIL'EV, I. S. Observations on soil moisture in the forest. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 31:148-166. 1950. 56.9 P44
- 19958 WAGGONER, P. E. Temperature lapse rates over bare ground and over potato plots on peat and mineral soils. *Amer. Met. Soc. B.* 31:326-329. Nov.1950. 340.8 Am32
- 19959 WILCOX, L. V. Pressure-control unit for use with the pressure-plate apparatus for measuring moisture sorption and transmission by soils. *Soil Sci.* 70:427-430. Dec.1950. 56.8 So3
- 19960 WILDE, S. A., and STEINBRENNER, E. C. Determination of air permeability of soil by means of a sphygmanometer. *J. Forestry* 48:840-841. Dec.1950. 99.8 F768
- Soil Chemistry and Mineralogy**
- 19961 ALMEIDA, E. Taking of soil samples for analysis. (In Portuguese.) *Selec. Agr.* 5(54):67-68. Oct.1950. 9.2 Se4
- 19962 ANDERSON, M. H. Water treatment processes and their relation to the greenhouse industry. *Iowa State Hort. Soc. Trans.* 84:127-133. Ref. 1949. 81 Io9
- 19963 BOLOTINA, N. I. Soil conditions for the development of red clover. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 31:270-291. Ref. 1950. 56.9 P44
- Chemical study chiefly.
- 19964 BONAZZI, A. Estudios sobre suelos tropicales. Observaciones preliminares sobre la distribución de compuestos liposolubles en los suelos superficiales del llano venezolano. *Acta Cient. Venezol.* 1:60-61. July/Aug.1950. 475 Ac83
- 19965 BREMNER, J. M. The amino-acid composition of the protein material in soil. *Biochem. J.* 47:538-542. Ref. Nov./Dec.1950. 382 B52
- Organic nitrogen.
- 19966 BUSH, R. Over-manuring may upset the balance of trace elements. *Grower [London]* 34:1163,1165. Dec.2,1950. 286.83 M34
- Fruit.
- 19967 BUTIJN, J. Magnesium and potassium deficiency on fruit farms. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13:813-816. Nov.1950. 84 N384
- English summary.
- 19968 CAMERMAN, C. Les ressources du sol belge en amendements calcaires. *Inst. Belge pour l'Amélior. de la Betterave P.* 18(2):19-42. Mar./Apr.1950. 66.9 In7
- English summary.
- 19969 CARRIGAN, R. A. What do you know about pH? *Atlantic Coast Line Agr. & Livestock Topics* 2(12):1-3. Dec.1950. 6 At63
- In soils.
- 19970 CATANI, R. A., and NETO, J. E. DE P. Determination of potassium and sodium by flame photometry, its application to soil analysis. (In Portuguese.) *Bragantia* 9:175-183. Sept./Dec.1949. 102.5 B73Tb
- English summary.
- 19971 CATANI, R. A., and KÜPPER, A. Exchangeable and fixed forms of the cations K<sup>+</sup>, Ca<sup>++</sup> E Mg<sup>++</sup> in the soils of the State of São Paulo. (In Portuguese.) *Bragantia* 9:185-192. Sept./Dec.1949. 102.5 B73Tb
- English summary.
- 19972 DAUTOV, R. K. Effect of shelterbelts on some chemical properties of soils in the forest-steppe zone. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:805-807. Aug.1, 1950. 511 P444A
- 19973 FEDOROV, B. V. Kak borot'sia s zasoleniem pochv v oroshaemykh raionakh.[How to control soil salinity in irrigated districts]. Tashkent,Izd-vo AN UzSSR, 1950. 66 p. 56.7 F31K
- 19974 FUJIMOTO, G., and SHERMAN, G. D. Cobalt content of typical soils and plants of the Hawaiian Islands. *Agron. J.* 42:577-581. Ref. Dec.1950. 4 Am34P
- 19975 FULLER, W. H., and MCGEORGE, W. T. Phosphates in calcareous Arizona soils. I. Solubilities of native phosphates and fixation of added phosphates. *Soil Sci.* 70:441-460. Ref. Dec.1950. 56.8 So3
- 19976 GARCIA GUILLINTA, M. J. Acción química, física y físico-química de la materia orgánica en el suelo. *Cong. Peruano de Quim. Actas y Trab.* 1949(2):577-587. Ref. 385 C763
- 19977 GUTARRA ZAMUDIO, M. Investigación sobre la composición mineral y clorurada de diversos suelos de la costa peruana. *Cong. Peruano de Quim. Actas y Trab.* 1949(2):614-624. 385 C763
- 19978 HARPER, H. J., and STOUT, O. E. The relation of soil texture to soluble salt accumulation in 29 irrigated soils in Oklahoma. *Okla. Agr. Expt. Sta. Tech. B. T-39*, 27 p. Oct.1950. 100 Ok4
- 19979 HARPER, H. J., and STOUT, O. E. Salt accumulation in irrigated soils; the prospect in Oklahoma. *Okla. Agr. Expt. Sta. B. B-360*, 14 p. Oct.1950. 100 Ok4
- 19980 IVERSEN, K. Soil analysis and field tests. (In Danish.) (Sum.) *Dansk Landbr.* 69:526-528. Oct.19,1950. 280.28 V91
- 19981 KING, A. V. Soil testing. *Conn. Veg. Growers' Assoc. Proc.* 37:68-71. 1949. 75.9 C76
- 19982 KLECHKOVSKIY, V. M. On the interaction of phosphoric acid with kaolinite. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 11:159-164. 1949. 20 M857
- 19983 LEMONS, E. Service with a whoosh: Oklahoma farmers now get soil-testing service by air. *Natl. Co. Agent & Vo-Ag Teacher* 6(12):14,20. Dec.1950. 275.28 N213
- 19984 LOPEZ, M. Potasio en suelos; su identificación y valoración cuantitativa. *Cent. Nac. de Invest. de Cafe. Bibliot. B. Inform.* 11:32-36. Sept.1950. 68.29 C332
- 19985 MALDONADO, A., and GUEVARA R., J. de D. Determinación del boro en aguas y suelos del Perú. *Cong. Peruano de Quim. Actas y Trab.* 1949(2):625-652. Ref. 385 C763
- 19986 MALQUORI, A. Stability of the absorbent mineral complex in soils. (In Italian.) (Abs.) *Chim. & Indus.* 64(3,spec.no.):68. Sept.1950. 383 C42
- 19987 MATSKEVICH, V. B. Observations on carbon dioxide regime in soil air of vigorous Chernozems. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 31:214-238. 1950. 56.9 P44
- 19988 MOODIE, C. D. The hypodermic method for studying the nature of soil organic matter. I. Principles, pretreatment, and conditions affecting the extent of reaction. *Soil Sci.* 70:461-478. Ref. Dec.1950. 56.8 So3
- 19989 NOGGLE, G. R. The use of isotopes in soil research. *Sci. Mon.* 72:50-56. Jan.1951. 470 Sci23
- 19990 NYS, P. F. DE. Les examens rapides du sol. *Cour. Hort.* 12:501-503. Sept.1950. 80 C834
- 19991 PAAUW, F. VAN DER. Invloed van de kalktoestand op de beschikbaarheid van fosfaat op zandgrond. Relation between the lime status and the availability of phosphate on a sandy soil. *Netherlands. Dir. van de Landb. Verslagen van Landbk. Onderz.* 56.8,19 p. Ref. 1950. 105.2 V61V
- 19992 PANKOVA, N. A. Humus formation in some soils of the forest-steppe region of Fergana Mountains. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 31:292-315. Ref. 1950. 56.9 P44
- 19993 POZZI-ESCOT, M. E. Los cloruros del suelo arable peruano; intervención de las aguas de riego en la cloruración del suelo; cloruros aportados por el abono con guano; uso de los cloruros como abono. *Cong. Peruano de Quim. Actas y Trab.* 1949(2):669. 385 C763
- 19994 POZZI-ESCOT, M. E. Experimentaciones sobre los fenómenos de hidrogenación y de reducción biológicos; conclusiones agronómicas indirectas aplicables a la asimilación de los abonos. *Cong. Peruano de Quim. Actas y Trab.* 1949(2):668. 385 C763



- 19995 POZZI-ESCOT, M. E. Papel ácido básico de los abonos en el suelo. Cong. Peruano de Quim. Actas y Trab. 1949(2):595-596. 385 C763
- 19996 RAUPACH, M. An indicator outfit for soil reaction tests in the field. Austral. Inst. Agr. Sci. J. 16: 108. Sept.1950. 23 Au74
- 19997 SERDOBOL'SKII, I. P. Oxidation-reduction and alkali-acid conditions in the gley formation process. (In Russian.) Pochven. Inst. im. V. V. Dokuchaeva. Trud. 31:73-81. Ref. 1950. 56.9 P44  
Of Podzolic soils.
- 19998 SERDOBOL'SKII, I. P., and SHAVERYGIN, P. I. Oxidation-reduction conditions of Solonchak meadow soils of Fergana Valley. (In Russian.) Pochven. Inst. im. V. V. Dokuchaeva. Trud. 31:82-90. Ref. 1950. 56.9 P44
- 19999 SKRYNNIKOVA, I. N. Result of studying the dynamics of chemical composition of ground waters of soils in the Podzolic zone. (In Russian.) Pochven. Inst. im. V. V. Dokuchaeva. Trud. 31:167-213. Ref. 1950. 56.9 P44
- 20000 SPANNAGEL, Die "spatendiagnose" im blickfeld neuzzeitlicher bodenprüfung. Übersicht 1(2):4-6. Oct.1,1950. 18 Ub3
- 20001 TSIURUPA, I. G. Desorption of cations from soils and clays. (In Russian.) Pochven. Inst. im. V. V. Dokuchaeva. Trud. 31:5-72. Ref. 1950. 56.9 P44
- 20002 TURCHIN, F. V., and SOKOLOV, V. I. On active manganese in the soil and its toxicity [to plants] in connection with the use of acid forms of nitrogenous fertilizers. (In Russian.) Pochvovedenie 1950:550-560. Ref. Sept.1950. 57.8 P34
- 20003 ZAFFANELLA, M. J. R., and URIONA, N. C. Contribución al conocimiento de la fertilidad de algunos suelos de la región de Concordia, por medio de técnicas analíticas rápidas. IDIA; Inform. de Invest. Agr. 3 (33/34):15-21. Sept./Oct.1950. 9 Id3
- Soil Biology**
- 20004 AFANAS'EVA, A. A. Microbiological processes in the soil under perennial grasses and legumes. (In Russian.) Agrobiologiya 1950(5):60-72. Sept./Oct. 1950. 20 Ag822
- 20005 BALASSA, R., and ÖRDÖGH, F. Sur la vaccination Rhizobium des plantes fourragères papilionacées. (In Hungarian.) Agrártudomány 2:528-530. Sept.1950. 19 Ag83
- 20006 BEREZOVA, E. F. Interrelations of plants with soil microflora. (In Russian.) Agrobiologiya 1950 (5):73-79. Sept./Oct.1950. 20 Ag822
- 20007 BEREZOVA, E. F., and REMPE, E. KH. Root microflora of perennial leguminous plants and grasses. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(11):3-9. Ref. 1950. 20 Ak1
- 20008 BOGOPOL'SKII, M. D. Root system of grasses—biological factor in self-sterilization of soils. (In Russian.) Priroda 39(8):66-68. Aug.1950. 410 P933
- 20009 CROOK, P., CARPENTER, C. C., and KLENS, P. F. The use of sodium propionate in isolating Actinomycetes from soils. Science 112:656. Dec.1,1950. 470 Sci2
- 20010 EYSTER, W. H. Walter and the bean stalk. Org. Gard. 17(6):38. Dec.1950. 56.8 Or3  
Earthworm compost.
- 20011 GLEEN, H. Biological oxidation of iron in soil. Nature [London] 166:871-872. Nov.18,1950. 472 N21
- 20012 GRILLOT, G. La symbiose bactérienne et la culture des légumineuses. Terre Marocaine 24:389-392. Oct.1950. 24 T44  
Report of address by Professor Demolon.
- 20013 HAARER, A. E. Upsetting the soil? Man and his sprays. Fruit-Grower 2865:611-612. Nov.23,1950. 80 F941
- 20014 HOFMANN, E., and SEEGERER, A. Der fermentgehalt des bodens als massstab seiner biologischen aktivität. Biochem. Z. 321:97. 1950. 384 B522
- 20015 KELLY, G. W. Does the "organic movement" have a "lot of truth and a little fanaticism"? Green Thumb 7(12):6. Dec.1950. 80 G82
- 20016 KOSTECKA, O. Influence of soil extracts on the growth of Azotobacter chroococcum Beij. (In Polish.) Soc. Bot. Poloniae. Acta (1949-50)20:169-200. Ref. 1950. 451 So16  
English summary.
- 20017 LANDERKIN, G. B., SMITH, J. R. G., and LOCHHEAD, A. G. A study of the antibiotic activity of Actinomycetes from soils of northern Canada. Canad. J. Res. Sect. C, Bot. Sci. 28:690-698. Ref. Dec.1950. 470 C16C
- 20018 MANZ, B. Inoculate for better legumes. Org. Farmer 2(5):46-47. Dec.1950. 57.8 Or3
- 20019 MORSE, R. E., POWERS, J. J., and WILLIAMS, C. J. Spores of Clostridium botulinum in Georgia soil. Food Res. 15:454-458. Ref. Nov./Dec.1950. 389.8 F7322
- 20020 NIKLITSCHKE, A. Der regenwurm im topf. Gärt.-Kur. 5(20):3. Oct.15,1950. 80 G1942
- 20021 NOVOGRUDSKII, D. M. In regard to intra-specific and interspecific interrelations of soil micro-organisms. (In Russian.) Agrobiologiya 1950(5):48-59. Sept./Oct.1950. 20 Ag822
- 20022 PHILLIPS, W. A. You and the earthworm. Org. Farmer 2(5):34-35. Dec.1950. 57.8 Or3
- 20023 QUASTEL, J. H., SCHOLEFIELD, P. G., and STEVENSON, J. W. Oxidation of pyruvic-oxime by soil organisms. Nature [London] 166:940-942. Dec.2,1950. 472 N21
- 20024 ROHDE, G. Der regenwurm in landwirtschaft und gartenbau. Deut. Landwirt. mit Mitt. der Deut. Landwirtschaftsgesell. 1:143-145. Nov.1950. 18 D4822
- 20025 ROUTIEN, J. B. Medicine from the soil; soil organisms manufacture antibiotics. Org. Gard. 17(6):18-19. Dec.1950. 56.8 Or3
- 20026 SHEWELL-COOPER, W. E. Soil fertility; where there is one good earthworm per spadeful, all is well. Field 196:973. Dec.2,1950. 10 F45
- 20027 SMIRNOVA, V. I. Microbiological activity, during cultivation of the illuvial horizon of turfy-Podzolic soils. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriazeva. Dok. 11:168-171. 1949. 20 M857
- 20028 SPENCER, D. The effect of calcium and soil pH on nodulation of T. subterranean L. clover on a yellow podsol. Austral. J. Agr. Res. 1:374-381. Oct.1950. 23 Au783
- 20029 STEVENS, K. R. Utah soils potential sources of antibiotics. Farm & Home Sci. [Utah Sta.] 11:91-92. Dec.1950. 100 U1F
- 20030 TEOTIA, S. P., DULEY, F. L., and MCCALLA, T. M. Effect of stubble mulching on number and activity of earthworms. Nebr. Agr. Expt. Sta. Res. B. 165,20 p. Ref. Sept.1950. 100 N27
- 20031 TEPPER, E. Z. Consecutive participation of micro-organisms in aerobic decomposition of spring straw and formation of humus-like substances. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriazeva. Dok. 11:154-158. 1949. 20 M857
- 20032 WINTER, G. Untersuchungen über die ökologie von Rhizoctonia solani im natürlichen boden. Nachrbl. des Deut. Pflanzenschutzdienstes 2:8-9. Jan.1950. 442.9 B832
- Soil-Plant-Animal Relationships**
- 20033 BAS, J. W. Le rétablissement du normal dans le cycle sol, plante, animal, homme; nécessité d'une démonstration sur un domaine agricole et fermier. Sol et Vitalité 1950:19-30. Ref. Mar.1950. 14 So42
- 20034 BIRRE, A. Sens et portée de notre réunion. Sol et Vitalité 1950:5-18. Mar.1950. 14 So42  
Soil-animal relationships.
- 20035 HANCOCK, R. C. G. Disease and deficiency. Mother Earth 4(4):33-36. Autumn 1950. 56.8 M85
- 20036 KEILLING, J. Méthode de confrontation et de mise au point des résultats. Sol et Vitalité 1950:47-48. Mar.1950. 14 So42  
Soil-animal relationships.
- 20037 LANDIS, C. C. Relation of soil to health. New Agr. 33(2):13. Nov.1950. 66.8 Su32
- 20038 PEEVY, W. L. Amount of grazing depends largely on nitrogen. Victory Farm Forum 40:14. Dec. 1950. 281.8 F226
- 20039 PFEIFFER, E. E. The relationship between soil, plants and health. (In Dutch.) Nederlandse Ver. tot Bevord. der Biol.-Dyn. Landbmethode. Vruchtbare Aarde 8:67-71. Sept.1950. 80 N28
- 20040 PREAUD, Le patronage de "l'homme et le sol." Sol et Vitalité 1950:49-52. Mar.1950. 14 So42



20041 RODRÍGUEZ ESCRIBENS, M. El suelo y su relación con la alimentación. Cong. Peruano de Quím. Actas y Trab. 1949(1):88-96. 385 C763

20042 SPECIALIST CONFERENCE IN AGRICULTURE, ADELAIDE AND CANBERRA, 1949. Plant and animal nutrition in relation to soil and climatic factors. Report of conference. London, H.M. Stationery Off., 1950. 14 p. 395 Sp3

20043 TRAUTMANN, H. Soil nutrients and the health of man. *Certified Milk* 25(12):4-5, 12-13, 15. (Concl.) Dec. 1950. 44.8 C33

20044 VINCENT, L. Le rétablissement de la santé profonde chez les animaux de ferme. *Sol et Vitalité* 1950:39-46. Mar. 1950. 14 So42  
Soil-animal relationships.

#### Soil Genesis, Formation, Classification, and Mapping

20045 BUTLER, B. E. A theory of prior streams as a causal factor of soil occurrence in the Riverine Plain of south-eastern Australia. *Austral. J. Agr. Res.* 1:231-252. Ref. July 1950. 23 Au783

20046 DUCHAUFOUR, P. Recherches sur l'évolution des sols calcaires en Lorraine. *École Natl. des Eaux et Forêts et Sta. de Rech. et Expér. Ann.* 12:99-153. Ref. 1950. 99.9 F845

20047 FLETCHER, P. W. Forest soil structure—attempts at its quantitative expression. *Mich. U. Microfilm Abs.* 10(4):327-328. 1950. 241.8 M58

20048 GOLDSTON, G. Are you farming your best land. *Res. & Farming [N. C. Sta.]* 9(2):12. Autumn 1950. 100 N81R

Soil types, North Carolina.

20049 GORDON, E. A land use map of Kuntaur in the Gambia. *Geog. J.* 116:216-217. Oct./Dec. 1950. 472 G29

20050 HALLSWORTH, E. G., and COSTIN, A. B. Soil classification. *Austral. Inst. Agr. Sci. J.* 16:84-89. Sept. 1950. 23 Au74

20051 HOCKENSMITH, R. D. Land classification in a Caribbean land improvement program. Washington, U. S. Soil Conserv. Serv., 1950. 10 p. 1.96 Ad6H8

Paper presented at Caribbean Soils Conference, Puerto Rico, Mar. 30-Apr. 8, 1950.

20052 HUNT, C. B., and SOKOLOFF, V. P. Pre-Wisconsin soil in the Rocky Mountain region, a progress report. *U. S. Geol. Survey. Prof. Paper* 221-G:109-123. Ref. 1950. 407 G29Pr

20053 ISAACSON, M. R. Soil classification—the why of it. *Ariz. Farmer* 30(1):1, 36-37. Jan. 6, 1951. 6 Ar44

20054 KELLER, W. D. How glaciers make soil. *Org. Farmer* 2(5):42-45, 53. Dec. 1950. 57.8 Or3

20055 LEE, W. D. Reconnaissance soil survey of Japan, Hiroshima Area. Supreme Commander Allied Powers. Nat. Resources Sect. Rpt. 110-E, 58 p. Nov. 1950. 280.9 AL5

20056 LOTHE, A. Alpine podzol boundary in Vesteralen. (In Norwegian.) *Tidsskr. f. det Norske Landbr.* 57:199-213. Ref. July/Aug. 1950. 11 T433

20057 MICHELMORE, A. P. G. A note on soil classification by a naturalist. *East African Agr. J.* 16:47-49. July 1950. 24 Ea74

20058 MURO C., J. DEL C. Suelos tropicales del Perú. *Agronomía [Lima]* 15(63):65-72. Sept./Oct. 1950. 9.8 Ag83

20059 PERSHINA, M. N. Classification of soils of the State shelterbelt route, Kamyshin—Stalingrad, according to silvicultural conditions. (In Russian.) *Pochvovedenie* 1950:573-575. Sept. 1950. 57.8 P34

20060 STEPHENS, C. G. The elements of soil classification. *So. Austral. Dept. Agr. J.* 54:141-142. Oct. 1950. 23 So84

#### SOIL MANAGEMENT

20061 ACKERMAN, W., and CRAIG, H. Farmer Gwyn saves his soil; physically handicapped Lawrence Gwyn applies organic methods to a run-down farm and makes it pay. *Org. Farmer* 2(5):36-37. Dec. 1950. 57.8 Or3

20062 ALBRECHT, W. A. Weed killers and soil fertility. *Rural New-Yorker* 100:818, 820. Dec. 2, 1950. 6 R88

20063 BALFOUR, E. B. Scottish tour—Barra and Nairn. *Mother Earth* 4(3):13-17. Summer 1950. 56.8 M85

20064 BOULD, C. The effect of soil management on soil fertility and tree nutrition. (Sum.) *Grower [London]* 34:1217-1218. Dec. 9, 1950. 286.83 M34

Fruit.  
20065 CARLTON, R. M. The non-organic front. *Green Thumb* 7(12):8-9. Dec. 1950. 80 G82

20066 CLIFFORD, C. H. Nitrogen in the orchard. *Mother Earth* 4(3):39-42. Summer 1950. 56.8 M85

20067 COSMA, D. Photogrammetry as an aid in studying reclamation programs for mountain lands. (In Italian.) *Riv. di Estimo Agr. e Genio Rur.* 13:566-572. Dec. 1950. 281.8 R522

Italy.  
20068 DACOSTA, J. He doctors sick soil. *Successful Farming* 48(12):48-49, 58-59. Dec. 1950. 6 Su12

20069 DOUGLAS, L. H. What about our watersheds? *Rec. Stockman, Annu. Ed.* (1951) 61(52):131, 133. Dec. 28, 1950. 49 D43

20070 EWESON, E. Our soil problem; we must follow nature's pattern in soil building. *Org. Gard.* 17(6):35-37. (To be cont.) Dec. 1950. 56.8 Or3

20071 FURR, J. R., and BARBER, H. D. The nitrogen content of some date garden soils in relation to soil management practices. *Date Growers' Inst. Rpt.* 27:26-30. 1950. 81 D26

20072 GAUL, Beispiel für die Kultivierung von Ödland. *Bad. Landwirt. Wchnbl.* 117:790-791. Nov. 18, 1950. 18 B142

20073 HERBERT, J. Organic farming is a whole; fragmentation misses basic principles. *Mother Earth* 4(3):18-19. Summer 1950. 56.8 M85

20074 JOHNSON, J. R. The new South where fields are greener. *Crops & Soils* 3(3):20. Dec. 1950. 6 W55  
Soil and grassland management.

20075 MCILROY, G. W. Reclamation of claypan areas. *Past. Rev.* 60:1076-1077. Oct. 16, 1950. 23 Au75

20076 MERKLE, F. G. Reclaiming strip-mined land in Pennsylvania. *Rur. New-Yorker* 100:730, 740. Oct. 21, 1950. 6 R88

20077 MORSE, R. The organic front. *Green Thumb* 7(12):6-8. Dec. 1950. 80 G82

20078 OLIVA, A. Reclamation of volcanic soils of central Italy. (In Italian.) *Riv. di Estimo Agr. e Genio Rur.* 8:455-467. Oct. 1950. 281.8 R522

20079 POLZER, A. DE. Fishing valleys and reclamation of the Po Delta. (In Italian.) *Rass. Econ. del Polesine (n.s.)* 4:192-195. Sept./Oct. 1950. 280.8 R183

20080 POPPELBAUM, H. Men of organic culture; Rudolf Steiner, bio-dynamic method of farming. *Org. Gard.* 17(6):24-26, 57. Dec. 1950. 56.8 Or3

20081 PUZENAT, M. L. Sur le dessalement des terres de culture du Haouz. *Soc. des Sci. Nat. du Maroc. B.* 28:38-40. 1948, pub. 1950. 515 Sol

20082 RAMADORO, A. Encouragement of land improvements. (In Italian.) *Glor. di Agr.* 60:361. Nov. 19, 1950. 16 It1G

Reclamation in Italy.  
20083 SACCHI, G. New provisions for Italian mountain areas. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 83:1-4. Dec. 6, 1950. 281.8 Ag3

Reclamation.  
20084 THE SOIL of East Africa. Round Table 161: 59-64. Dec. 1950. 280.8 R76  
Soil management.

20085 STROHM, J. Quick build-up for poor soil. *Country Gent.* 120(12):23, 97-99. Dec. 1950. 6 C833  
Limestone and fertilizer applications and deep plowing.

20086 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management and land resources, Douglas County, Kansas. Manhattan, 1950. 25 p. 1.96 L22Ph

20087 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Washington County, Kansas. Manhattan, 1950. 25 p. 1.96 L22Ph

20088 WHITE, H. F. The practical application of organic farming. *Queensland Prod.* 32(4):16;(5):19. July 26-Aug. 2, 1950. 23 Q35

20089 ZENNARO, A. "Depressed areas" and the Po Delta. (In Italian.) *Rass. Econ. del Polesine (n.s.)* 4:196-200. Sept./Oct. 1950. 280.8 R183  
Reclamation.



## Soil Fertility

- 20090 ALEXANDER, E. D. Nitrogen topdressing is profitable on small grain. *Victory Farm Forum* 40:16. Dec.1950. 281.8 F226
- 20091 APPLETON, L. R. Retaining fertility of irrigated soils important to farmer. *N. Mex. Stockman* 16:60. Jan.1951. 49 N462
- 20092 ARMSTRONG, N. Liquid fertilization of shade trees. *Arborist's News* 15:129-134. Nov.1950. 99.8 Ar14
- 20093 AUDIDIER, L. Après l'abondante récolte de 1950 la vigne exige de bonnes fumures. *Potasse* 24:168-170. Nov.1950. 57.8 P84
- 20094 BARANOV, P. A., and SHCHEPETIL'NIKOVA, A. M. On properties of granulated fertilizers. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(9):3-13. 1950. 20 Ak1  
Experiments in superphosphate application to field crops.
- 20095 BAUER, W. Kann der neue humusdünger "humon" die bedrohliche humuslücke im weinbau schliessen? *Österr. Weinztg.* 5:239-240. Dec.10,1950. 390.8 Os7
- 20096 BERGER, K. C., and BEERS, Z. H. Lime; key to Cornbelt farming, lime does far more than merely sweeten soil for legumes. It actually unlocks stored soil fertility reserves. *Successful Farming* 49(1):36-37,80, 82-83. Jan.1951. 6 Su12
- 20097 BERTHAULT, P. Le chaulage des terres. *Rev. Agr. de l'Afrique du Nord* 48:760-762. Oct.20,1950. 80 R326
- 20098 BLANCO MACIAS, G. El mejoramiento de los suelos con materia orgánica. *Tierra [Mexico]* 5:601-603,635. Nov.1950. 8 T445
- 20099 BORGMAN, H. H. Potash fertilizing in fruit culture. (In Dutch.) *Fruittel* 40:902-903. Nov.23,1950. 86 N28
- 20100 BRANAS, J. Sur la fumure. *Prog. Agr. et Vitic.* 1950:367-371. Dec.17/24,1950. 14 P94  
Grapes.
- 20101 BROOKS, O. L. Nitrogen influences the protein content of grasses. *Victory Farm Forum* 40:6-7. Dec.1950. 281.8 F226
- 20102 BURLESON, C. A., and others. The yield and quality of cabbage as affected by different levels of fertility and irrigation. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1289,4 p. Nov.11,1950. 100 T31P  
M. E. Bloodworth, J. S. Morris, P. W. Leeper, and W. R. Cowley, joint authors.
- 20103 BURTON, G. W. Nitrogen is essential in centipede grass production. *Victory Farm Forum* 40:12-13. Dec.1950. 281.8 F226  
*Eremochloa ophiuroides*.
- 20104 BURVILL, G. H. The salt problem in the wheat belt [Western Australia]. *West. Austral. Dept. Agr. J.* (ser.2)27:174-180. June 1950. 23 W52J
- 20105 CAMARGO, R. DE. Does coffee need more phosphorus or more potash? (In Portuguese.) *São Paulo. Supt. dos Serv. do Café. B.* 25:596-603,681-686. Aug.-Sept.1950. 68.29 Sa63
- 20106 CARTER, J. M. El suelo agrilo puede ser benéfico. *Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr.* 12(189):29,37. July/Sept.1950. 8 R323
- 20107 CASTILLA, D. DE. Cómo aumentar la producción agrícola? Aonos y materias fertilizantes. *Ceres [Valladolid]* 15(174):14. Dec.1,1950. 15 C33
- 20108 CHAPMAN, C. J. To increase crop production fertilize with nitrogen. *Better Farming Methods* 23:12,66-67. Jan.1951. 58.8 B46
- 20109 CHATEL, C. Les mauvais vergers. *Réveil Soils.* Agr. 59:340. Nov.15,1950. 14 R322
- 20110 COANDA, H. La reconstruction de la fertilité profonde des sols. *Sol et Vitalité* 1950:31-37. Mar.1950. 14 So42
- 20111 COLON, I. A. Superfosfato amoniacal. 2. *Rev. del Café* 6(6):10. Nov.1950. 8 R3295
- 20112 COMMONWEALTH BANK OF AUSTRALIA, SYDNEY. Agricultural development in Western Australia; the use of mineral fertilisers and supplements. *Sydney, 1950. 15 p. 56.28 C73A*  
Contents: The background of agricultural development in Western Australia, by G. H. Burvill; Mineral deficiencies of crops and pastures, by T. C. Dunne; Mineral deficiencies and animal production, by E. J. Underwood.
- 20113 COMMONWEALTH BANK OF AUSTRALIA, SYDNEY. Building soil fertility in South Australia. *Sydney, 1950. 15 p. July 1950. 56.28 C73*  
Contents: Land development in South Australia, by A. R. Callaghan; Private enterprise applies the findings of science, by W. S. Kelly; Scientific research into soil fertility in South Australia, by J. A. Prescott.
- 20114 CRUMMETT, D. O. For growers: soil, water and salts. *South. Florist & Nurseryman* 63(37):9-11,101-102. Dec.8,1950. 80 So86
- 20115 CURCIO, M. Fertilizing tobacco. (In Italian.) *Tabacco* 54:297-303,333-340. (Cont.) Sept.-Oct.1950. 69.8 T115
- 20116 DARLING, R. J. Soils for rock gardens. *Horticulture* 29:32. Jan.1951. 80 H787
- 20117 DAUNOY, H. L. Soils for better roses. *Amer. Rose Mag.* 9(3):10-12. Nov./Dec.1950. 80 Am327A
- 20118 DAVIS, J. F. Effect of rate of application of fertilizer and spacing of plants on the performance of Cornell 19 and Utah 15 celery varieties. *Mich. Agr. Expt. Sta. Q. B.* 33:106-110. Nov.1950. 100 M58S
- 20119 DILLER, J. Braucht die landwirtschaft waldstreu? *Allg. Forstz.* 5:519. Nov.29,1950. 99.8 AL52
- 20120 DOETSCH, J. F. The most expensive fertilizer this year will be the fertilizer you don't buy. *Victory Farm Forum* 40:2. Dec.1950. 281.8 F226  
For grain.
- 20121 ELEAZER, J. M. Small grain profits depend on nitrogen topdressing. *Victory Farm Forum* 40:11. Dec.1950. 281.8 F226
- 20122 ELLIS, T. O. Fertilizer experiments on Irish potatoes 1947-1948. *Jamaica.Dept. Agr. B.* (n.s.)40,30 p. 1950. 8 J227B
- 20123 EMILSSON, B. Various methods of applying fertilizers to potatoes. (In Swedish.) *Växt-Närings-Nytt* 6(4):13-14. 1950. 57.8 V47
- 20124 ENGLUND, E. Peat-land farming in Finland. *Foreign Agr.* 14:246-249. Nov.1950. 1.9 Ec7For  
Hay production experiment on reclaimed peat land in Lapland.
- 20125 FAHMY, T. Le problème de la fumure de la vigne en Egypte. *Feuilles Agr.* 7(64):35-43. July/Sept. 1949. 24 F43
- 20126 FERRAND, L'emploi des engrais chimiques en Afrique tropicale et équatoriale. *Rev. Internat. des Prod. Colon.* 25:226-228. Dec.1950. 286.8 R326
- 20127 FRANCK, O. Phosphate fertilizing. (In Swedish.) *Växt-Närings-Nytt* 6(4):1-8. 1950. 57.8 V47
- 20128 GERICKE, S. Düngungsfragen im zucker-rübenbau. *Zucker* 3:418-420. (Concl.) Ref. Oct.1,1950. 65.8 Z82
- 20129 GODNEV, T. N., SUDNIK, N. C., and SFUBA-ROVA, E. P. On supplementary feeding of fruit trees by spraying them with diluted, balanced nutritive solutions. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:835-836. Aug.1, 1950. 511 P444A  
Experiments with plum and pear seedlings.
- 20130 GODOY JUNIOR, C. Culture of cotton; Influence of phosphate fertilizers on seed composition. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 25:283-290. Sept./Oct.1950. 9.2 R324
- 20131 GROHMANN, F., and CATANI, R. A. Deterioration of the soils of the Arenito Bauru region caused by erosion and cotton culture. (In Portuguese.) *Bragantia* 9:125-132. Ref. May/Aug.1949. 102.5 B73Tb  
English summary.
- 20132 GUDGEL, W. L. Conservation on the land at 70 miles per hour. *Nowest. Sci.* 24:164-168. Nov.1950. 470 N81  
Seeding sweetclover as covercrop by aircraft.
- 20133 HAARER, A. E. Potash—an elixir of life. *Fruit & Prod.* 5(5):24-25. Sept.1950. 80 F9427
- 20134 HADFIELD, W. V. Fertilizer distribution by aircraft in New Zealand. *Brit. Agr. B.* 3:131-136. 1950/51. 10 B776
- 20135 HALLIDAY, D. J., and SYLVESTER, J. B. Nitrogen for grass; a survey of the response of grass to nitrogen fertilizers. *Imper. Chem. Indus. Jealott's Hill Res. Sta. B.* 9,30 p. Ref. May 1950. 103 Im7B
- 20136 HANTEN, H. Über die düngung im gartenbau. *Gartenbauwirtschaft [Berlin]* 1950:226-227. (To be cont.) Oct.10,1950. 80 G1936
- 20137 HARBOR, D. R. Forty bushels of oats for 300 pounds of nitrate of soda is a good trade. *Victory Farm Forum* 40:15. Dec.1950. 281.8 F226



- 20138 HAUN, T. H. Bankrupt soils, a medical view of agriculture. *New Agr.* 33(2):12. Nov.1950. 66.8 Su32
- 20139 HAUN, T. H. What is humus? *New Agr.* 33(3):12-13. Dec.1950. 66.8 Su32
- 20140 HAUSNER. Gibt es mittel und wege für Spes-sartbauern, sich innerbetrieblich von der waldstreu freizumachen? *Allg. Forstz.* 5:517-519. Nov.29,1950. 99.8 AL52
- 20141 HOFF, G. B. Fertilizers for permanent pastures. *N. Mex. Stockman* 15(12):66-67. Dec.1950. 49 N462
- 20142 HORNER, G. M., and VANDECAVEYE, S. C. Nitrogen fertilizer for wheat, eastern Washington. *Wash. Agr. Expt. Sta. C.* 86,14 p. Mar.1950. 100 W27S
- 20143 HORST, J. A. TER. Use of fertilizers on grassy orchards on river clay. (In Dutch.) *Betuws Tuinbouwbl.* 8(18):4-5. Nov.18,1950. 80 B464
- 20144 HUSH, H. Find right fertilizer; new ISC [Iowa State College] recommendations tell plant food needs for each crop, each area. *Wallaces' Farmer & Iowa Home-stead* 76(1):9. Jan.6,1951. 6 W15
- 20145 IVERSEN, K., and BONDORFF, K. A. Field experiments with farmyard manure and artificial fertilizers, Askov 1894-1948. *Com. Fert.* 82:49-52. Jan.1951. 57.8 C73
- 20146 JACOB, A. Die düngewirkung der nebenbe-standteile der kalirohsalze. *Deut. Landwirt. mit Mitt.* der *Deut. Landwirtgesell.* 1:90-92. Oct.1950. 18 D4822
- 20147 JOHNSON, I. M. It's not dirt, know your soil. *Horticulture* 29:15. Jan.1951. 80 H787
- 20148 JONG, P. DE. The roles of nitrogen, phosphor-ous and potash in plant nutrition. *Planters' Chron.* 45:530-532. Oct.15,1950. 22 P693
- 20149 KIDNER, A. W. Soil made for potatoes grows asparagus well. *Grower [London]* 34:1316-1317. Dec.23, 1950. 286.83 M34
- 20150 KLIETSCH, W. Bedeutung und schaden der waldstreunutzung unter besonderer betonung der verhält-nisse im Spessart. *Allg. Forstz.* 5:513-517. Nov.29, 1950. 99.8 AL52
- 20151 KOLÁŘ, J. A contribution to the question of the exhausted South-Bohemian peat-bogs. (In Czech.) *Českoslov. Akad. Zeměděl. Věst.* 24:440-446. Oct.1950. 19.5 C332
- 20152 KOOT, IJ. VAN., and KLOES, L. J. J. V. D. Fertilizing fruit grown in greenhouses. (In Dutch.) *Fruitteelt* 40:904-906. Nov.23,1950. 86 N28
- 20153 KRAEMER, O. Humuswirtschaft und streumit-tel; wert der waldstreu und der torfstreu für die land-wirtschaft. *Allg. Forstz.* 5:522-524. Nov.29,1950. 99.8 AL52
- 20154 KRONE, P. R. Nutrient requirements of garden plants. *Mega* 10(3):25-31. June 1950. 90.32 M52B
- 20155 LAUDELOUT, H. Étude pédologique d'un essai de fumure minérale de l'"Elaeis" à Yangambi. *Inst. Natl. pour l'Étude Agron. du Congo Belge P. Sér. Sci.* 47,21 p. Ref. 1950. 24 In7  
English summary.
- 20156 LEDGER, H. P. The effect of lime on a *Chloris gayana* ley. *East African Agr. J.* 16:43-46. July 1950. 24 Ea74
- 20157 LEGGIERI, L. Nitrogen phosphate fertiliza-tion in the Italian South. (In Italian.) *Mezzogiorno Agr.* 6(43):1-2. Nov.5/11,1950. 16 M57
- 20158 LEONARD, C. D., and BEAR, F. E. Sodium as a fertilizer for New Jersey soils. *N. J. Agr. Expt. Sta. B.* 752,24 p. Ref. Oct.1950. 100 N46S
- 20159 LEONARD, C. D. Sodium has plant food value as a fertilizer. *Victory Farm Forum* 40:8-9. Dec.1950. 281.8 F226
- 20160 LE PECHON, J. Fumures experimentales sur prairie à Vern-sur-Seiche. *Potasse* 24:163-164. Nov. 1950. 57.8 P84
- 20161 LOFGREEN, A. Nutrition of cereal grains. *Crop Comments* 4:1-2. Nov.1950. 57.8 C88
- 20162 LÜDWIG, A. Ein tieferer blick in den nähr-stoffvorrat unserer obstbauböden. *Obstbau* 69:134-135. Sept.1,1950. 80 Ob73
- 20163 MARTIN, W. P. The role of organic matter in vegetable crop production. *Ohio Veg. & Potato Growers Assoc. Annu. Proc.* 35:26-30. 1950. 75.9 Oh3
- 20164 MATSUKI, G. Sakumotsu no hibai [The ferti-lization of the crop land]. *Tokyo, Meibundo*, 1950. 527 p. 57 M42
- 20165 MATTHEWS, E. M. Sidedress flue-cured to-bacco for greater profit. *Victory Farm Forum* 40:13-14. Dec.1950. 281.8 F226
- 20166 MEDINA, G. Comments on fertilizing. (In Portuguese.) *Lav. Arroz.* 4(44):32;(45):32,34-35. (Cont.) Aug.1950. 59.8 L39
- 20167 MERKLE, F. G. Results of recent experi-ments in fertilizing wheat. *Victory Farm Forum* 40:4-5. Dec.1950. 281.8 F226
- 20168 MIDDLETON, G. K., and RANKIN, W. H. Atlas wheat capable of utilizing more nitrogen. *Victory Farm Forum* 40:15. Dec.1950. 281.8 F226
- 20169 MIRCHANDANI, R. T. Green manuring of standing cotton crop. *Indian Cotton Growing Rev.* 4:89-94. Apr.1950. 72.8 In23
- 20170 MITSCHERLICH, A. Zur steigerung der ernte-erträge im Fünfjahrplan. *Deut. Landwirt. mit Mitt.* der *Deut. Landwirtgesell.* 1:62-63. Oct.1950. 18 D4822  
Fertilization.
- 20171 MÜLLER, A. P. Ein beitrag zur dynamik des bodens und dem problem seiner fruchtbarkeit. *Deut. Landwirt. mit Mitt.* der *Deut. Landwirtgesell.* 1:79-83. Oct.1950. 18 D4822  
Russian Zone of Germany.
- 20172 MÜLLER, A. P. Kein dorfwirtschaftsplan ohne düngungsplan. *Deut. Landwirt. mit Mitt.* der *Deut. Land-wirtgesell.* 1:195-197. Dec.1950. 18 D4822
- 20173 NDAMASE, M. N. The selection of an orchard land. *Transkeian Ter. Agr. Dept. Umcebis Womlimi Nomfuyi* 27(2):44. May 1950. 24 T684  
Union of South Africa.
- 20174 NEBRASKA, AGRICULTURAL EXPERIMENT STATION. Protein determinations of wheat from fertili-zer experiments in western and west south central Ne-braska, 1950. *Nebr. Agr. Expt. Sta. Outstate Testing C.* 10(sup.),3 p. 1950. 100 N27O
- 20175 NEW JERSEY, AGRICULTURAL EXPERI-MENT STATION. Fertilizer and lime recommendations for New Jersey. *N. J. Agr. Expt. Sta. C.* 539,15 p. Nov.1950. 100 N46S
- 20176 NIKLITSCHKE, A. Die erde in unseren topf-kulturen. *Gärt.-Kur.* 5(21):1-2. Nov.1,1950. 80 G1942
- 20177 NOLL, I. F. Placement of fertilizers in rows of grain crops [wheat and rye] on slightly-leached Chernozems in the South-East. (In Russian.) *Sovet. Agron.* 8(9):87-89. Sept.1950. 20 So84
- 20178 NOONAN, J. B. Soil fertility is essential to good potato yields; value of pasture swards in cropping systems. (Extr.) *Agr. Gaz. N. S. Wales* 61:501-503. Oct.2,1950. 23 N472
- 20179 OLIVA, A. Grain culture on anomalous and marginal soils. (In Italian.) *Humus* 6(9):13-15. Sept. 1950. 16 H88
- 20180 OOBUCHI, S. Nogyo zensho; dojo, hiryo, noyaku [The compendium of agriculture; soil, manure and chemicals]. *Tokyo, Maki Shobo*, 1950. 307 p. 395 Oo8
- 20181 ÖSTERREICHISCHES INSTITUT FÜR WIRT-SCHAFTSFORSCHUNG. Ertragssteigerung der öster-reichischen landwirtschaft durch intensivere verwendung von handelsdünger. *Österr. Inst. f. Wirtforsch. Monats-ber.* 23(8,sup.12),10 p. Aug.1950. 280.9 V672
- 20182 OXER, V. T. Lime vital to soil balance. *Fla. Grower* 58(12):22,30-31. Dec.1950. 80 F6622
- 20183 PANSE, V. G., SAHASRABUDHE, V. B., and MOKASHI, V. K. A new series of manurial trials on rainfed cotton in India. *Indian Cotton Growing Rev.* 4:95-105. Apr.1950. 72.8 In23
- 20184 PETERSON, H. B. Nitrogen fertilizers in-crase yield and protein content of winter wheat when moisture is sufficient. *Farm & Home Sci. [Utah Sta.]* 11:83-84. Dec.1950. 100 Ut1F
- 20185 PETERSON, H. B. The yield and protein con-tent of winter wheat is increased by nitrogen topdressing. *Victory Farm Forum* 40:7. Dec.1950. 281.8 F226
- 20186 PIERRAIN, J. Emploi de l'ammoniac anhydre comme engrais. (Abs.) *Chim. & Indus.* 64(3,spec.no.): 68. Sept.1950. 383 C42
- 20187 PRALL, F. E. M. Manures for market garden vegetables. 2. *Grower [London]* 34:1166-1167,1169. Dec.2,1950. 286.83 M34
- 20188 PRATOLONGO, U. Most just land. (In Italian.) *Humus* 6(9):4-5. Sept.1950. 16 H88  
Fertility and fertilizers.
- 20189 PRICE, A. J. Topdressing: a Waikato study. *New Zeal. J. Agr.* 81:371-373,375-377,379-380. Oct.1950. 23 N48J  
Topdressing pastures and pasture management.
- 20190 READ, R. A. Rocks make the trees. *South. Lumberman* 181(2273):217-219. Dec.15,1950. 99.81 So82  
Arkansas.



- 20191 REBOUR, H. La fumure des agrumes. Tunisie Agr. 51:85-90. (Concl.) Nov.1950. 24 T832
- 20192 RECKE, GRAF V. D. Zur frage der waldstreuung. Allg. Forstz. 5:521-522. Nov.29,1950. 99.8 AL52
- 20193 REYNOLDS, E. B., and ROBERTS, J. E. The effect of legumes and nitrogen on the yields of cotton and corn on Lufkin fine sandy loam at College Station. Tex. Agr. Expt. Sta. Prog. Rpt. 1293, 2 p. Nov.21,1950. 100 T31P
- 20194 REYNTENS, H., and COTTENIE, A. Recherches sur l'assimilabilité des engrais chimiques appliqués en sillons dans les vergers à hautes tiges. Rev. de l'Agr. 3:1040-1046. Oct.1950. 13 R322  
English summary.
- 20195 RICEAN, D. S. Mineral deficiency and pasture establishment in the Coonaplyn Downs, South Australia. So. Austral. Dept. Agr. J. 54:132-139. Oct.1950. 23 So84
- 20196 RODRIGUEZ, C. La cal. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 12(189): 26-27. July/Sept.1950. 8 R323  
In soil improvement.
- 20197 RÜBENSAM, E. Unsere böden, die grundlage der landwirtschaftlichen ertragssteigerung. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:120-121. Nov.1950. 18 D4822  
Soils and fertilizers in the Russian Zone of Germany.
- 20198 RUSSELL, SIR E. J. Fertilizers increase protein content of food crops. Victory Farm Forum 40: 10-11. Dec.1950. 281.8 F226
- 20199 SAMOÏLOV, I. I. Problems of a system of fertilizers for plants in the crop rotation in the light of V. R. Vil'iams's teaching. (In Russian.) Agrobiologičeskii 1950(5):108-120. Sept./Oct.1950. 20 Ag822
- 20200 SCHENKELBERG, A. Wechseldüngung auch für's grünland. Allgäuer Bauernbl. 18:677-678. Nov.16, 1950. 18 AL53
- 20201 SCHULZE, E. 36 jährige düngerwirkungen auf den ertrag im dauerdüngungsversuch Dikopshof (1906-1942). Z. f. Acker- u. Pflanzenbau 93:95-139. Dec.1950. 18 J825
- 20202 SCOTT, W. A. Results of fertilizer experiments with burley tobacco at Harrow. Canada. Expt. Farms. Tobacco Div. Lighter 20(4):10-14. Nov.1950. 286.89 C16
- 20203 SELKE, W. Akute fragen der kalkdüngung. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:75-79. Oct.1950. 18 D4822
- 20204 SHAPOSHNIKOVA, A. N. Increasing effectiveness of phosphoric acid fertilizers on turfy Podzolic soils. (In Russian.) Pochven. Inst. im. V. V. Dokuchaeva. Trud. 31:252-269. Ref. 1950. 56.9 P44
- 20205 SILVERINHA, R. Vineyard. (In Portuguese.) Vida Agr. [Lisboa] 13(80):4-5. Nov./Dec.1950. 15.5 V66  
Grape fertilizers.
- 20206 SIMON, M. Le chaulage des terres à betterave; son importance et ses modalités. Inst. Belge pour l'Amélior. de la Betterave P. 18(2):57-84. Mar./Apr. 1950. 66.9 In7  
English summary.
- 20207 SMITH, H. W. Nitrogen fertilizers for wheat production. Wash. Agr. Expt. Sta. C. 85, 11 p. Mar.1950. 100 W27S
- 20208 SMITH, J. C., FUDGE, J. F., and ROBERTS, J. E. Fertilizers for cotton near College Station. Tex. Agr. Expt. Sta. Prog. Rpt. 1303, 3 p. Dec.18,1950. 100 T31P
- 20209 SOBOLEVA, M. P. In regard to nitrogen-phosphate nutrition of flax. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok. 11:188-195. 1949. 20 M857
- 20210 STEAD, H. A. J. Garden fertilizing. (In Afrikaans.) Landman [Weekly] 34(11):11. Nov.1950. 24 L234
- 20211 STEWART, A. B. Phosphatic fertiliser utilisation; recent investigations in Scotland. (Excerpts.) Chem. Trade J. & Chem. Engin. 127:1304,1306. Dec.8, 1950. 382 C422
- 20212 TEAKLE, L. J. H. A plant's eye view of the soil. Queensland Prod. 32(10):4-5, 31. Sept.6,1950. 23 Q35
- 20213 TERTS, I. The estimation of the nutrient-status of the soils by field-experiments and laboratory investigations. (Contributions to the Neubauer-method.) (In Hungarian.) Agrtudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem. 13:89-113. Ref. 1949. 80 B85  
English summary.
- 20214 THOMPSON, B. T. Modern orchid feeding. Prof. Gard. 2:264-265. Nov.1950. 80 P945
- 20215 THIELMANN, F. Streunutzung und ihre folgen auf den sandböden in der Oberpfalz. Allg. Forstz. 5:520-521. Nov.29,1950. 99.8 AL52
- 20216 TRUOG, E. The essentiality of sodium as a plant nutrient. Victory Farm Forum 40:5. Dec.1950. 281.8 F226
- 20217 VALENTIN, J. Date et mode d'épandage des engrais dans les vignes. Potasse 24:174-175. Nov.1950. 57.8 P84
- 20218 VAN DER MERWE, C. R. The use of lime for acid soils. Farmer & Countryman 39(45):6. Nov.10,1950. 24 F227
- 20219 VINE, R. Aerial topdressing in five-ton loads. New Zeal. Farmer 71(17):3-4. Oct.12,1950. 23 N484
- 20220 WALLACE, T. C. The mineral nutrition of crops, with special reference to fruit crops. Cawthron Inst. Cawthron Lecture 1949, 22 p. 1950. 514 C31
- 20221 WALT, G. P. V. D. Maintenance of soil fertility in the "reddish" region. (In Afrikaans.) Landbou-weekblad 31(1608):31. May 10,1950. 24 L232  
Union of South Africa.
- 20222 WATSON, SIR J. A. S. Discovery. II. Soil fertility. Young Farmer 18:286-287. Nov./Dec.1950. 10 Y8
- 20223 WESTBROOK, E. C. How they feel about 40-cent cotton in Frogtown. Victory Farm Forum 40:9-10. Dec.1950. 281.8 F226  
Fertilizing.
- Soil Tilth and Tillage
- 20224 ARKEMA, P. W. B. Ploughing and ploughs. (In Dutch.) Drents Landtbl. 31(45):6. Nov.18,1950. 12 D812
- 20225 BATTISTELLI, E. Tillage of subsoil. (In Italian.) Colt. e Gior. Vinic. Ital. 96:298-299. Nov.15, 1950. 16 C72
- 20226 BONDON, J. Influence des méthodes d'ameublissement sur la structure des sols et les rendements. Culture 24:2-4. Nov./Dec.1950. 14 C894
- 20227 EMERSON, A. W. Soil conservation straw mulch. Better Farming Better Living 1950:10,13. Autumn 1950. 6 B464
- 20228 GAYFORD, G. W. Cultivation and "no cultivation" in orchards. Victoria. Dept. Agr. J. 48:512-513. Nov.1950. 23 V68J
- 20229 GRAYSON, H. All the fun of the ploughing match. Smallholder 84(2115):19. Dec.1,1950. 10 Sm1
- 20230 HARPER, H. J., and BRENSING, O. H. Deep plowing to improve sandy land. Okla. Agr. Expt. Sta. B. B-362, 28 p. Dec.1950. 100 Ok4
- 20231 HUTCHINSON, A. E. Mulching your garden. Horticulture 28:414. Nov.1950. 80 H787
- 20232 IUFEROV, V. A. Dates for plowing grass fields in Siberia. (In Russian.) Sovet. Agron. 8(9):79-86. Sept.1950. 20 So84
- 20233 JOHNSON, W. C. Stubble-mulch farming on wheatlands of the southern High Plains. U. S. D. A. C. 860, 18 p. Aug.1950. 1 Ag84C
- 20234 LJONES, B. Soil culture in the orchard. (In Norwegian.) Tidsskr. f. det Norske Landbr. 57:187-198. July/Aug.1950. 11 T433
- 20235 MAIS, H. Labours moyens et quasilabours. Rev. Agr. de l'Afrique du Nord 48:772-774. Oct.20,1950. 80 R326
- 20236 MARTIN, R. Deep plowing, good soil management team to renew poor farms. Farmer-Stockman 53 (12):20-21. Dec.1950. 6 Ok45
- 20237 MOYER, J. Why I disk. Org. Farmer 2(5):22-24. Dec.1950. 57.8 Or3
- 20238 MÜLLER, A. P. Ertragssteigerung durch herbst- oder frühjahrsfurche unter berücksichtigung des wassergehaltes. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:152-154. Nov.1950. 18 D4822
- 20239 ROUSEK, E. J. Pioneers without plows. Crops & Soils 3(3):18-19. Dec.1950. 6 W55  
Stubble-mulch tillage.
- 20240 RUBIN, S. S., and KRASNOSHCHKEK, I. F. Depth of soil cultivation before planting the orchard. (In Russian.) Sad i Ogorod 1950(9):8-11. Sept.1950. 80 Sa13
- 20241 RUSSELL, E. W. How deep to plough? Farming 4:358-362. Dec.1950. 10 F2236



20242 TALLARICO, L. A. La técnica del cultivo bajo cubierta o subsuperficial. *Charla Rur.* 144:8-9. Oct.1950. 9 C37

20243 THOMANN. Probleme um die winterfurche. *Württemb. Wchnbl. f. Landwirt.* 117:969. Oct.21,1950. 18 W96

20244 WUNDERLING, K. Zur frage der untergrund-lockerung. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:145-146. Nov.1950. 18 D4822

#### Drainage, Irrigation, Water Supply, and Flood Control

20245 ABEL, E. Self-perpetuating bureaucracy; here is the California farmer's case in favor of the return of the Central Valley Project to the State before the Bureau of Reclamation succeeds in turning CVP into a socialized power enterprise. Emphasis on power rather than water already means irrigators are paying twice what water should reasonably cost. *Elect. West.* 105(6):65-69. Dec. 1950. 335.8 J82

20246 ALANNO, A. D'. Reclamation in the Comacchio Valleys. (In Italian.) *Agr. Ital.* 1:617-620. Dec.1, 1950. 16 Ag822

20247 ALBRECHT, W. A. Drainage ditches can be erosive too. *Soil Conserv.* 16:141-142. Jan.1951. 1.6 So3S

20248 ALLEN, J. H. The Delaware River Basin integrated water project. Bethlehem, Pa., Lehigh Valley Flood Control Council, 1950. 14 p. 292 AL5

20249 ANGELL, G. N. Spring Valley farmers are getting out of the wet. *Oreg. Farmer* 73:891. Dec.21, 1950. 6 Or32

Drainage in Polk County, Oregon.

20250 BENNETT, H. Improved drainage in the Imperial Valley, California. *Soil Conserv.* 16:135-138. Jan. 1951. 1.6 So3S

20251 BENNETT, H. Water in the ground: too much or too little. *Soil Conserv.* 16:153-157. Feb.1951. 1.6 So3S

Water-table management.

20252 BLANEY, H. F., and CRIDDLE, W. D. Determining water requirements in irrigated areas from climatological and irrigation data. U. S. Soil Conserv. Serv. SCS-TP-96, 48 p. Aug.1950. 1.96 Ad6Tp

20253 BOND, M. C., VROMAN, H. B., and MOREHOUSE, D. F. Potato yields increased by irrigation on Long Island, 1949. *N. Y. Agr. Col. Farm Econ.* 177: 4594-4596. Nov.1950. 280.8 C812

20254 BROWN, B. A. Does irrigation pay? *Conn. Veg. Growers' Assoc. Proc.* 37:41-43. 1949. 75.9 C76

20255 BUSHNELL, J. First year results of an irrigation experiment with early potatoes. *Ohio Veg. & Potato Growers Assoc. Annu. Proc.* 35:124-129. 1950. 75.9 Oh3

20256 CANCELLARA, E. Technique of land improvements. (In Italian.) *Mezzogiorno Agr.* 6(44):1-2. Nov.12/18,1950. 16 M57

Reclamation and building projects.

20257 CASSIDY, H. P. Overhead sprinklers make better sizes. *Citrus Leaves* 30(12):30-31. Dec.1950. 80 C492

20258 CEYLON, DIRECTOR OF IRRIGATION. Administration report for 1949. Colombo, 1950. 45 p. 55.9 C33

20259 CHOHLIS, J. Conservation irrigation. *West. Dairy J.* 7(3):10,20,22. Jan.1,1951. 44.8 W524

20260 CLARTE, R. La Hollande et les polders. *Cahiers des Ingén. Agron.* 6:35-37. Third Q.1950. 14 C112

20261 CLYDE, G. D. Water use and disposal with particular reference to irrigation, drainage, and reclamation in the United States of America. Inter-Amer. Conf. Agr. U. S. Paper 4(3), 20 p. Ref. Dec.1950. 5 ln820A

20262 CSEHILY, G. Organization of irrigations in the Soviet Union. (In Hungarian.) *Hungary. Országos Vízgazdálkodási Hivatal. Vízügyi Közlem.* 31:225-230. 1949. 290.9 H89

20263 CUTTLE, D. Progress on Whittier Narrows Dam and flood control basis. *Calif. Dairyman* 30(23):70. Dec.16,1950. 44.8 C12

20264 DARLOT. Reflexions sur un voyage d'études à travers les U. S. A. effectué du 17 juillet au 26 août 1950, sous les auspices de l'E. C. A. *Terre Marocaine* 24:465-467. Nov.1950. 24 T44

Chiefly observations on irrigation and mechanization.

20265 DEEMTER, J. J. VAN. Theoretische en numerieke behandeling van ontwaterings- en infiltratiestromingsproblemen. Theoretical and numerical treatment of flow problems connected with drainage and irrigation. Netherlands. Dir. van de Landb. Verslagen van Landbk. Onderz. 56(7), 67 p. Ref. 1950. 105.2 V61V

20266 FOSS, R. E. Pasture irrigation in grassland farming. *New Eng. Homestead* 123(23):23-25. Dec.9,1950. 6 N442

20267 GILES, J. E., and ALEXANDER, D. M. Frequency of irrigation for tomato plants. *Austral. Inst. Agr. Sci. J.* 16:95-100. Sept.1950. 23 Au74

20268 GRASSI, C. J. Cantidad de agua a suministrar en el riego. *Chacra* 21(241):62-63. Dec.1950. 9 C34

20269 GRAZIA, S. DE. Absorption ditches in Southern reclamation. (In Italian.) *Tec. Agr.* 2:109-119. July/Oct. 1950. 16 T22

Flood and erosion control.

20270 GRIGOR'EVA, A., and ISAKOV, I. Mechanization of digging mapped-out [irrigation] network. (In Russian.) *Mashinno-Traktornaia Sta.* 10(8):5-12. Aug. 1950. 58.8 M11

20271 HAMMOND, R. Important hydro-electric and irrigation projects. *New Zeal. Elect. J.* 23:926. Nov.25, 1950. 335.8 N48

20272 HANRAETS, J. M. J. Mechanization in reclamation technique. (In Dutch.) *Landbk. Tijdschr.* 62:924-933. Nov.1950. 105.2 Or3

Netherlands.

20273 HILL, R. A. Operation and maintenance of irrigation systems. *Amer. Soc. Civ. Engin. Proc.* 76(47), 10 p. Dec.1950. 290.9 Am3Ps

20274 HOWELL, M. Portable irrigation of citrus. *Fla. Grower* 58(12):7,30. Dec.1950. 80 F6622

20275 HOWELL, M. Portable irrigation on the ridge. *Citrus Indus.* 31(12):8-9. Dec.1950. 80 C49

20276 JACKOBS, J. A., and STANBERRY, C. O. Irrigated pastures in central Washington. *Wash. Agr. Expt. Sta. C.* 107, 5 p. Aug.1950. 100 W27S

20277 JAEDICKE, C. D. Storrie water project is rejuvenated. *Sowest. Crop & Stock* 4(12):11,73. Dec.1950. 6 So8942

Irrigation project near Las Vegas, New Mexico.

Similar title in *West. Farm Life* 53(1):7. Jan.1,1951. 6 R153

20278 KITCHING, H. W. Design of portable sprinkler systems. *Amer. Nurseryman* 92(11):9-10. Dec.1,1950. 80 Am371

20279 KOBAYASHI, J. Chemical investigation on the water or rivers in Akita Prefecture. (In Japanese.) *Tokyo. Natl. Agr. Expt. Sta. J.* 4:115-134. Ref. Mar. 1950. 107.6 N63J

English summary.

Irrigation water for rice.

20280 KOVDA, V. The great constructions of communism and transformation of nature. (In Russian.) *Bol'shevik* 27(20):32-41. Oct.1950. 280.8 B633

Irrigation systems and hydroelectric stations mainly.

20281 LAPAZARÁN. El arte del buen regador. *Badajoz. Diputación Prov. B. de Inform. Agr. y Ganad.* 8 (7):17-22. Aug.1950. 15-B14

20282 LATHROP, W. H. Dams save McGregor. *Soil Conserv.* 16:127. Jan.1951. 1.6 So3S

Flood control and soil conservation work, McGregor, Iowa.

20283 LUND, B. Drainage of soil through building of dams and pumps. (In Norwegian.) *Norsk Landbr.* 16:418-419. Nov.10,1950. 11 N8122

20284 LYNDON, T. J. Designing an irrigation system for frost control. *Power Farming Austral. & New Zeal.* 59(10):37,39. Oct.1950. 58.8 P87

20285 MANGANELLI, U., and MORANDI, M. Replies to the criticisms of Ing. Montanari on the proposal for "The irrigation of 50,000 hectares of the northern zone of the Ravenna plain." (In Italian.) *Riv. di Estimo Agr. e Genio Rur.* 8:494-497. Oct.1950. 281.8 R522

20286 MANN, D. H. Get your topsoil elsewhere. *Utah Farmer* 70:363. Dec.7,1950. 6 D45

Ditch irrigation replaced by a sprinkler system to prevent soil erosion.

20287 MARKÓ, I. Irrigations in Hungary in 1948. (In Hungarian.) *Hungary. Országos Vízgazdálkodási Hivatal. Vízügyi Közlem.* 31:198-224. 1949. 290.9 H89

English summary, p. 23-24.

20288 MARX, G. W. A summary of polluted irrigation water studies. *Ofic. Sanit. Panamer. B.* 29:1044-1050. Oct.1950. 449.9 P192B



- 20289 MEITH, H. C. Alternate middle irrigation. Calif. Citrog. 36:94. Jan.1951. 80 C125
- 20290 MESU, F. P. Cultural-technical projects now and in the future. (In Dutch.) Landbk. Tijdschr. 62: 912-923. Nov.1950. 105.2 Or3
- Reclamation and drainage in the Netherlands.
- 20291 MILLIGAN, C. H., BARRETT, W. C., and HENRIE, J. O. Consumptive use of water studies to be used as basis for determining amount of water to be apportioned to Utah from Colorado River. Farm & Home Sci. [Utah Sta.] 11:67-68,87. Dec.1950. 100 Ut1F
- 20292 MONTGRAIN, C. Est-il vraiment profitable d'irriguer pour déjouer la coûteuse sécheresse? B. des Agr. 46(11):91. Nov.1950. 7 B872
- Canada.
- 20293 MORGAN, A. Irrigated pastures in Victoria. Victoria. Dept. Agr. J. 48:438-440. Oct.1950. 23 V66J
- Similar title in Austral. Dairy Rev. 18(12):8,10. Dec.1, 1950. 44.8 Au73
- 20294 MULLEN, H. H. Growers get ABC's of good irrigation. Fla. Grower 58(12):9,14. Dec.1950. 80 F6622
- 20295 MÜLLER, A. Hochwasser und wassermangel. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1: 146-147. Nov.1950. 18 D4822
- 20296 OPAZO G., A. Aprovechamiento total de las aguas para el Norte Chico. Agr. del Norte 39:426-428. Nov./Dec.1949. 9.3 So14
- Irrigation.
- 20297 PANARIN, M. N. Conservation measures in the southern part of the State shelterbelt route, Chapaevsk-Vladimirovka. (In Russian.) Les i Step' 2(8):12-19. Aug.1950. 99.8 L565
- For soil moisture accumulation.
- 20298 PARKHOMENKO, S. Irrigation machines—for equipping machine-tractor stations. (In Russian.) Mashinno-Traktornaya Sta. 10(8):13-16. Aug.1950. 58.8 M11
- Includes experiment in sprinkling cotton.
- 20299 PEÑAFIEL, J. El problema de regadío en la Provincia de Coquimbo. Agr. del Norte 40:8-10. Jan./Mar.1950. 9.3 So14
- 20300 PILLSBURY, A. F. Results of studies of the failure of plain concrete irrigation pipe systems. Agr. Engin. 31:611-613. Ref. Dec.1950. 58.8 Ag83
- 20301 PORTOCARRERO, J. N. Profundidad crítica en los canales. Agronomía [Lima] 15(62):47-48. June/Aug.1950. 9.8 Ag83
- 20302 POURTAUBORDE, J. L'irrigation de la plaine des Béni-Amir Béni-Moussa. Terre Marocaine 24:443-451. Nov.1950. 24 T44
- 20303 RAWLINGS, W. Water conservation and irrigation in N.S.W. II. Milk Bd. J. 1:528-529. Oct.16,1950. 44.8 M5934
- 20304 RAYMUNDO, M. B. Pump irrigation—a means of increasing production. Philippine Agr. Engin. J. 1:68-69. Second Q.1950. 58.8 Ag88
- 20305 RODRÍGUEZ LANGONE, A. Human aspects of Mexican irrigation. Amer. Soc. Civ. Engin. Proc. 76(46), 12 p. Dec.1950. 290.9 Am3Ps
- 20306 SARDO, Q. Surface drainage of soils. (In Italian.) Tec. Agr. 2:106-108. July/Oct.1950. 16 T22
- 20307 SEISE, A. Surface clearance of peatmoss swamps. (In Finnish.) Teho 1950(6):44-45. 20 T98
- English summary, p. 50.
- 20308 SELBY, W. E. Rain-making in Kansas has interesting story. Kans. Farmer 87(22):10-11,14. Nov.18, 1950. 6 K13
- Irrigation methods and equipment.
- 20309 SHEARING, D. Diesels help irrigation. Diesel Prog. 17:40-41. Jan.1951. 291.8 D56
- 20310 SMITH, C. S. Emerald into gold: the story of a farming revolution; a special series of articles on Eire's Land Rehabilitation Project. 1-4. Farmers Wk. [London] 33(18):46-49;(19):56-57,59;(20):55,57;(21):61,63. Nov.3-24,1950. 10 F2226
- Reclamation by drainage.
- 20311 U. S. GEOLOGICAL SURVEY. Ground-water resources of Atascosa County, Texas. U. S. Geol. Survey Water-Supply Paper 1079-C,153 p. 1950. 407 G29W
- 20312 U. S. GEOLOGICAL SURVEY. Surface water supply of Hawaii, 1946-47. U. S. Geol. Survey. Water-Supply Paper 1095,130 p. 1950. 407 G29W
- 20313 U. S. GEOLOGICAL SURVEY. Surface water supply of the United States, 1947. 12. Pacific Slope Basins in Washington and Upper Columbia River Basin. U. S. Geol. Survey. Water-Supply Paper 1092,349 p. 1950. 407 G29W
- 20314 U. S. GEOLOGICAL SURVEY. Surface water supply of the United States, 1948. 5. Hudson Bay and Upper Mississippi River Basin. U. S. Geol. Survey. Water-Supply Paper 1115,464 p. 1950. 407 G29W
- 20315 U. S. PRESIDENT'S WATER RESOURCES POLICY COMMISSION. A water policy for the American people, v. 1. Washington,1950. 445 p. 173 P928W
- Contains chapters on watershed management, flood control and land reclamation.
- 20316 VARONA, J. Instalaciones de riego. Almanaque Agr. Ceres 1951:205-221. 1950. 15 AL6
- 20317 VASIL' EVA, I. A. Construction of earthen dams. (In Russian.) Les i Step' 2(8):59-62. Aug.1950. 99.8 L565
- 20318 WEBBER, A. J. Better irrigation at lower cost. Soil Conserv. 16:159-160. Feb.1951. 1.6 So3S
- 20319 WILLIAMS, M. B. Water laws in the United States of America. Food & Agr. Organ. United Nations. Agr. Devlpmt. Paper 2,161 p. Mar.1950. 281.9 F733
- 20320 WYNN, C. W. An irrigation blunder; a quest for more than one crop a year has damaged the Nile valley's natural fertility. Org. Farmer 2(5):25-26. Dec. 1950. 57.8 Cr3

## Erosion and Erosion Control

- 20321 ADLER, E. Modern methods of road-building check erosion; grass and trees planted as part of campaign to remedy faults of the past. Farmer's Wk. [Bloemfontein] 80:41. Nov.8,1950. 24 F225
- 20322 ALEMANNI, N. M. Vanishing Italy. (In Italian.) Foreste 2:129-138. Oct.1950. 99.8 F7694
- Soil erosion.
- 20323 ALENCAR, F. M. A. DE. Plants useful for ground cover. A study of their characteristics as to volume and root development. (In Portuguese.) Bragantia 9:133-146. Ref. May/Aug.1949. 102.5 B73Tb
- English summary.
- 20324 BANFI, A. Control de la erosión en las plantaciones cítricas; plantaciones en terrazas. IDIA; Inform. de Invest. Agr. 3(33/34):51-52. Sept./Oct.1950. 9 Id3
- Argentina.
- 20325 BENNETT, H. H. Progress in soil conservation. Inter-Amer. Conf. Agr. U. S. Paper 4(1),16 p. Dec.1950. 5 In20A
- 20326 BERRIOS, A. T. Mejorando el suelo. 2-4. Lucha 2(16):9;(17):20;(17,1.e.18):2-3. Oct.-Dec.1950. 280.28 L96
- Conservation.
- 20327 BERTONI, J. Collecting systems for the determination of losses by erosion. (In Portuguese.) Bragantia 9:147-155. May/Aug.1949. 102.5 B73Tb
- English summary.
- 20328 BISAL, F. Calibration of splash cup for soil erosion studies. Agr. Engin. 31:621-622. Dec.1950. 58.8 Ag83
- 20329 BURFORD, A. R. Soil Conservation Service's long-range planning reclaims vast Yazoo watershed. Conserv. News 5(22):3. Dec.21,1950. 279.8 C768
- 20330 CALDERÓN, J. S. M. El empleo de curvas a nivel en diversos cultivos. Agronomía [Lima] 15(62):49-52. June/Aug.1950. 9.8 Ag83
- 20331 CEVALLOS A., J. A. Prácticas para la conservación del suelo al alcance de pequeños agricultores. Ecuador. Segunda Zona. Cám. de Agr. B. 4(18):21-24. July/Sept.1950. 9.5 Ec95B
- Ecuador.
- 20332 CHRIST, J. H. Three southern Oregon farming districts start soil conservation. Oreg. Dept. Agr. Agr. B. 168:9-11. Dec.1950. 2 Or3
- 20333 COLE, R. O. Soil conservation in Indiana. Purdue U. Agr. Ext. B. 228,28 p. 1950. 275.29 In2E
- 20334 EMERSON, A. W. 250 Nebraska banks back lively conservation program. Banking 43(7):60,108. Jan.1951. 284.8 Am3
- Soil and water conservation.
- 20335 ENGLUND, E. Soil conservation in the United States. (In Swedish.) Lanthrakad. Tidskr. 89:287-303. Ref. 1950. 104 Sw3
- English summary.
- 20336 FINNELL, H. H. Nature of the dust bowl threat in the Southern Great Plains. Great Plains Agr. Council. Proc. 1950:52-55. 232.9 G7992
- 20337 GIRALDO, J. E. La granja agrícola de Pampanito y los trabajos de conservación de suelos de Jajó en el Estado Trujillo. Agr. Venezol. 15(144):37-39. (Concl.) July 1950. 9.95 Ag8



- 20339 GLOVER, SIR H. Una política de conservación de suelos para Colombia. *Rev. Nac. de Agr. [Bogotá]* 44(546):47-50. Oct.1950. 9.4 R32
- 20339 GORDIENKO, M. Die bekämpfung der bodenerosion. *Deut. Landwirt. mit Mitt. der Deut. Landwirtschaftsgesell.* 1:199-200. Dec.1950. 18 D4822  
Russian Zone of Germany.
- 20340 GOTTSCHALK, L. C., and BRUNE, G. M. Sediment design criteria for the Missouri Basin Loess Hills. U. S. Soil Conserv. Serv. SCS-TP-97, 21 p. Ref. Oct. 1950. 1.96 Ad6Tp
- 20341 IOWA STATE COLLEGE. When erosion control pays off. *Org. Farmer* 2(5):19-21, 63. Dec.1950. 57.8 Or3
- 20342 JACOBI, C. The tenant or share farmer and soil fertility. (In Afrikaans.) *Landbouweekblad* 31(1640): 21. Dec.20,1950. 24 L232  
Soil erosion control.
- 20343 KRISCHE, P. Die bekämpfung der bodenerosion, ein internationales problem der welternährung. *Deut. Landwirt. mit Mitt. der Deut. Landwirtschaftsgesell.* 1:99-100. Ref. Oct.1950. 18 D4822
- 20344 LAMBETH, W. O. The earth is the Lord's and the fulness thereof. *Soil Conserv.* 16:128,130-131. Jan. 1951. 1.6 So3S  
Stewardship of the land as included in a program of church activities, Olive Chapel Baptist Church, Apex, N. C.
- 20345 LEB, S. Contour bank construction and maintenance. *Veldtrust* 11(8):22-25. Aug.1950. 56.8 V54
- 20346 LØDDESE, A. Soil destruction and measures for conservation of the soil in Norway. (In Norwegian.) *Norske Myrskaps Meddel.* 48:101-118. Ref. Oct.1950. 11 N813
- 20347 LOPATIN, G. V. Erosion and runoff of alluvium. (In Russian.) *Priroda* 39(7):19-28. Ref. July 1950. 410 P933
- 20348 MADYIBI, C. C. K. Farmers, save the soil. *Transkeian Ter. Agr. Dept. Umcebisu Womlimi Nomfuyi* 27(2):49. May 1950. 24 T684  
Contouring in Union of South Africa.
- 20349 MAMISAO, J. P. Drainage-type terraces now constructed on Aduyon soils. *Philippine Agr. Engin. J.* 1:52-57. Second Q.1950. 58.8 Ag88
- 20350 MINJOZ, M. Le Service de la Conservation du Sol aux États-Unis (Soil Conservation Service). *Agron. Trop.* 5:523-527. Sept./Oct.1950. 26 Ag86
- 20351 NATIVIDADE, J. V. Fruit culture and the new methods of erosion control. (In Portuguese.) *Portugal. Junta Nac. das Frutas.* B. 10:7-15. First Q.1950. 286.3939 P83  
English summary.
- 20352 PFEIFFER, N. B. A day at Red Hill Plantation [Virginia]. *Soil Conserv.* 16:150-152. Feb.1951. 1.6 So3S  
Soil conservation demonstration.
- 20353 PLATEAU, H. La lutte contre le ruissellement. *Soc. des Sci. Nat. du Maroc.* B. 28:100-109. 1948, pub.1950. 515 Sol
- 20354 PUTIATO, S. M. In regard to ways of securing high and stable harvests in the steppe and forest-steppe districts of U.S.S.R. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok.* 11:21-29. 1949. 20 M857  
Stalin Plan to change nature.
- 20355 RIBEREAU, F. La terre qui meurt. *Colon Franç. de Tunisie* 60(2174):1. Dec.2,1950. 24 C712  
Erosion.
- 20356 ROBERTSON, T. C. Rebirth of the Natal garden. *Veldtrust* 11(9):2-5, 15. Sept.1950. 56.8 V54  
Soil conservation.
- 20357 RUNGE, F. D. Soil conservation in the Goulburn Catchment; sixth annual competition. *Victoria. Dept. Agr. J.* 48:449-455. Oct.1950. 23 V66J
- 20358 RUTTEN, P. J. Erosion. I. (In Dutch.) *Land-en Tuinbouwbl.* 46:1. Dec.16,1950. 12 L233
- 20359 SMOLÍK, L. Ochrana pudy s hlediska mezinárodního a problém její u nás [Soil conservation from the international standpoint and its problem in our country]. n.p., 1949. 765 p. 56.7 Sm72  
English summary.  
Czechoslovakia.
- 20360 SOBOLEV, S. S. Eroziya pochv i bor'ba s neyu na osnove travopol'noi sistemy zemledeliia [Soil erosion and its control on the basis of the crop rotation system of agriculture]. *Moskva*, 1950. 19 p. 56.7 SolE
- 20361 SPEK, J. VAN DER. Stuwende marlene gronden. Drifting marine soils. *Netherlands. Dir. van de Landb. Verslagen van Landbk. Onderz.* 56(11), 28 p. 1950. 105.2 V61V  
English summary.
- 20362 SUMMERVILLE, W. A. T. Water erosion: development of the present approach to the problem. *Research* 3:547-550. Ref. Dec.1950. 472 R31
- 20363 TAME, W. J. Soil conservation in the Upper Murray region; 1950 competition. *Victoria. Dept. Agr. J.* 48:497-502. Nov.1950. 23 V66J
- 20364 U. S. S. R. SOVET MINISTROV. O khode vypolneniya postanovleniya Soveta Ministrov SSSR i TSK VKP (b) ot 20 oktyabrya 1948 g. "O plane polezashchitnykh lesonasazhdeniy, vnedreniya travopol'nykh sevooborotov, stroitel'stva prудov i vodoemov dlia obespecheniya vysokikh i ustoychivyykh urozhayev v stepnykh i lesostepnykh raiionakh evropeiskoi chasti SSSR" [On progress in fulfilling the decree of the Council of Ministers of U.S.S.R. and of the Central Committee of the Communist Party of Oct. 20, 1948 "Concerning the plan on shelterbelts, introduction of crop rotations, construction of ponds and reservoirs for guaranteeing high and stable harvests in the steppe and forest-steppe districts of European U.S.S.R."]. *Moskva, Gos. Izd-vo Polit. Lit-ry*, 1950. 21 p. 281.179 Un352K
- 20365 U. S. EXTENSION SERV. Some conclusions of Extension Soil Conservationists' Conference, Spring Mill State Park, Mitchell, Indiana, Oct.9-11,1950. *Washington?* 1950. 5 p. 1.913 C3S05
- 20366 U. S. SOIL CONSERVATION SERV. NORTHERN GREAT PLAINS REGION. Miscellaneous information for conservation planning. *Lincoln*, 1950. 39 p. 1.9607 M682
- 20367 VOGT, W. Tierras nuevas por viejas. *Tierra Libre (ser.2)* 14(9):1-2, 15. Sept.1950. 8 T443
- 20368 WALTERS, G. H. Waste of soil is a permanent loss; large decrease of crops caused yearly by washing away of top soil. *Farm Life Mag.* 1(2):6, 18. Sept.1950. 6 F22126
- 20369 WEBB, G. In Clay County, Ala. business booms on heels of soil conservation. *South. Seedsman* 13(12):24, 42, 44. Dec.1950. 61.8 So8
- 20370 ZASLAVSKIĬ, M. N. Some problems in investigating the erosional processes in Moldavia. (In Russian.) *Pochvovedenie* 1950:568-572. Sept.1950. 57.8 P34

## Sanitation

- 20371 BAKER, K. F. Treatment of nursery soil for disease control. *Pacific Coast Nurseryman* 9(10):16, 22-23, 32-33. Oct.1950. 80 P116
- 20372 CRUZ, S. R., MENDOZA, T. M., and LAUDENCIA, P. N. An improved method of soil sterilization by electricity. *Philippine Agr. Engin. J.* 1:58-64. Ref. Second Q.1950. 58.8 Ag88
- 20373 LEMON, J. Greenhouse soil sterilization. *Ohio Veg. & Potato Growers Assoc. Annu. Proc.* 35:158-160, 162, 164, 166. 1950. 75.9 Oh3
- 20374 SPENCER, E. L., and JACK, A. Using soil fumigants; important nitrogen changes often take place. *Fla. Grower* 58(12):21, 27. Dec.1950. 80 F6622
- 20375 STIJMANS, J. Technical considerations in soil fumigation. (In Flemish.) *Tuinbouwberichten* 14:179-181. (To be cont.) Dec.15,1950. 80 T817

## MATERIALS FOR SOIL IMPROVEMENT

- 20376 DONALDSON, R. D., and WHITE, J. G. Compost versus chemical fertilizers. *Gard. Club Amer. B.* 38(6):73-74. Nov.1950. 90.32 G16
- 20377 FOLDAGER, G. Nitrogen versus clover. (In Danish.) *Dansk Landbr.* 69:546. Oct.26,1950. 280.28 V91
- 20378 KAWASHIMA, R. Hiryo-gaku [Fertilizers]. *Tokyo, Chikyu Shuppan*, 1949. 960 p. 57 K17
- 20379 MEHRING, A. L. Combination fertilizers and pesticides. *Com. Fert.* 82:32-40. Ref. Jan.1951. 57.8 C73
- 20380 STOVER, J. H. Fertilizer manufacturing projects; their planning and financing. *Food & Agr. Organ. United Nations. Agr. Devlpmt. Paper* 1, 19 p. Nov.1949. 281.9 F733
- 20381 TOTMAN, J. E. The industry's responsibilities in the emergency. *Com. Fert.* 81(6):28-29, 70-72. Dec. 1950. 57.8 C73



20382 WOLFENBARGER, D. O., and KELSHEIMER, E. G. Fertilizer-insecticide uses for armyworm, mole-cricket and wireworm. Fla. Grower 58(12):16,28. Dec. 1950. 80 F6622

### Primary Materials

20393 DEERING, F. J. Industrial wonderland turns American minerals into plant foods for agriculture. Farmer-Stockman 53(12):11,40. (To be cont.) Dec.1950. 6 Ok45

20384 FLECK, A. Deposits of potassium salts in north-east Yorkshire. Fert. Feed. Stuffs & Farm Supplies J. 36:741-746,773-775,777-778. (Concl.) Nov.29-Dec.13,1950. 57.8 F413

20385 GAINES, J. P., and CROWE, G. B. An economic appraisal of anhydrous ammonia as a nitrogenous fertilizer. Miss. Agr. Expt. Sta. C. 152,16 p. June 1950. 100 M69

20386 PAAUW, F. VAN DER. Oorzaken van de verschillende werking van superfosfaat en thomasslakkenmeel. Causes of the different effects of superphosphate and basic slag. Netherlands. Dir. van de Landb. Verslagen van Landbk. Onderz. 56(6),94 p. Ref. 1950. 105.2 V61V

English summary.

20387 RISI, J. Ammonia fertilizers from wood waste. Canad. Chem. & Process Indus. 34:972-974. Dec.1950. 381 C16

20388 ROTINI, O. T. Transformation of calcium cyanamide in calcareous soils. (In Italian.) (Abs.) Chim. & Indus. 64(3,spec.no.):68. Sept.1950. 383 C42

### Secondary and Minor Element Materials

20389 CHILDERS, N. F. Minor elements: major problem in orchards. N. J. Farm & Gard. 21(12):10-11,46. Dec.1950. 6 G162

### Mixed Fertilizers and Fertilizer Technology

20390 DUNTON, H. L., and others. The merits of low and high analysis. Com. Fert. 81(6):30-32,34,36,38-40,73-74. Dec.1950. 57.8 C73

I. E. Miles, H. M. Lockwood, and A. F. Miller, joint authors.

20391 EMMER, V. Recent researches of the Soviet scientific workers about the effectiveness and methods of production of granulated manures. (In Czech.) Českoslov. Akad. Zeměděl. Věst. 24:423-434. Oct.1950. 19.5 C332

20392 HAMENCE, J. H., and TAYLOR, G. The determination of available phosphoric acid. Chem. & Indus. 1950:799-801. Dec.16,1950. 382 M31C

Fertilizer.

20393 MANUFACTURING CHEMISTS' ASSOCIATION. Fertilizer grade ammonium nitrate. Mfg. Chem. Assoc. Manual Sheet A-10,24 p. Ref. Dec.1950. 388 M31M

20394 MOSER, A. Problemas actuales de fabricación nacional de abonos artificiales. Cong. Peruano de Quim. Actas y Trab. 1949(1):180-192. 385 C763

20395 PASTAC, I. Equilibre des engrais au point de vue atomique. (Abs.) Chim. & Indus. 64(3,spec.no.):114. Sept.1950. 383 C42

20396 POZZI-ESCOT, M. E. Aspecto químico y económico de la fabricación del cloruro de amoníaco como abono nacional. Cong. Peruano de Quim. Actas y Trab. 1949(2):597. 385 C763

20397 RIEDINGER, G. Dosage accéléré du potassium dans les engrais composés. (Sum.) Chim. Analyt. 32 (11,spec.no.):54. Nov.1950. 383 An72

20398 SHUEY, P. A method for determining total nitrogen in fertilizers containing chlorides. Assoc. Off. Agr. Chem. J. 33:1003-1008. Nov.15,1950. 381 As7

20399 VANPOPERYNGHE, L. Aperçu de quelques procédés appliqués à la fabrication des engrais nitrés granulés. (Abs.) Chim. & Indus. 64(3,spec.no.):120. Sept.1950. 383 C42

### Fertilizer Statistics

20400 BUSTAMANTE AMIR, L. Industrias derivadas de los álcalis y abonos. Cong. Peruano de Quim. Actas y Trab. 1949(1):103-110. 385 C763

20401 CANADA. BUR. OF STATISTICS. DEPT. OF TRADE AND COMMERCE. The fertilizer trade, July 1, 1949-June 30, 1950. Ottawa,1950. 13 p. (v.2,pt.18,D) 57.9 C162

20402 FUDGE, J. F., and OGIER, T. L. Commercial fertilizers in 1949-50. Tex. Agr. Expt. Sta. B. 726,60 p. Sept.1950. 100 T31S

Chiefly fertilizer statistics.

20403 GONÇALVES, P. A. Fertilizer prices in Arkansas, U.S.A. (In Portuguese.) Lav. Arroz. 4(44):26, 28. Aug.1950. 59.8 L39

20404 HARDENBURG, E. V. Buy fertilizer and seed potatoes early. Mkt. Growers J. 79(12):7. Dec.1950. 6 M34

Situation and outlook.

20405 INTERNATIONAL SUPERPHOSPHATE MANUFACTURERS' ASSOCIATION. Phosphate statistics, 1949. London,1949. 7 p. 57.9 In82

20406 JAHNKE, F. Stand und aufgaben der düngerversorgung in der Deutschen Demokratischen Republik. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:12-14. Sept.1950. 18 D4822

20407 MCVICKAR, M. The fertilizer situation. Fruit & Veg. Rev. 12(9):15. Dec.1950. 80 C1224

20408 NOBLE, W. Fertilizer outlook. Fruit & Veg. Rev. 12(9):27. Dec.1950. 80 C1224

20409 SASTRY, G. G. Chemical manures: their use. Madras J. Co-op. 42:200-201. Oct.1950. 280.28 M26

20410 U. S. PRODUCTION AND MARKETING ADMIN. Order and store fertilizer and insecticides early for your 1951 cotton crop. U. S. D. A. Pa-141,2 p. Nov.1950. 1 Ag84Pro

20411 VIGNARD, M. R. La production et la consommation des superphosphates en Egypte. Feuilles Agr. 7 (65):59-65. Oct./Dec.1949. 24 F43

### Mineral Soil Amendments

20412 WRAIGHT, J. D. Greater use of agricultural lime in South Canterbury. New Zeal. J. Agr. 81:333,335. Oct.1950. 23 N48J

New developments in production.

### Manures and Composts

20413 BERGSMA, J. Manure. (In Dutch.) Volkstuin 33:136. Dec.1950. 80 V88

20414 BOISCHOT, P., and SYLVESTRE, G. Enfouissement direct des pailles en agriculture. (Abs.) Chim. & Indus. 64(3,spec.no.):66. Sept.1950. 383 C42

20415 BROUGHTON, A. How do you handle manure? Wis. Agr. & Farmer 77(24):4. Dec.16,1950. 6 W751

20416 CASCON, J. El estiércol. Badajoz. Diputación Prov. B. de Inform. Agr. y Ganad. 8(79):3-10. Aug.1950. 15 B14

20417 FOSTER, W. S. Sewage sludge, its income potential. Amer. City 65(12):87-89,184. Dec.1950. 98.58 Am31

20418 FRAZER, J. W. Frazer products, streamlining the making of compost with modern methods. Org. Gard. 17(6):27-29. Dec.1950. 56.8 Or3

20419 GARNER, H. V. Liquid manure losses; it might cost as much as 15s. per cow per year to replace nutrients that are often allowed to run down the drains. Farmer & Stock-Breeder Ybk. 1951:73-75. 49 F22

20420 HOUCK, L. H. A compost engineer shows Missouri. Org. Farmer 2(5):10-14. Dec.1950. 57.8 Or3

20421 KAILA, A. Farm manure as a source of phosphorus for plants. (In Finnish.) Suomen Maataloustiet. Seura. Maataloustiet. Aikakausk. 22:107-121. Ref. 1950. 30 Su7M

English summary.

20422 KANARDOV, I. P. Irrigation with sewage. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriázeva. Dok. 11:199-203. 1949. 20 M857

Experiments with vegetables.

20423 KINTZLEY, W. P. Manure losses are too high! Rec. Stockman, Annu. Ed. (1951)61(52):74-75. Dec.28,1950. 49 D43

20424 KREYBIG, L. Phosphoric acid fermentation of stable manure. III. (In Hungarian.) Agrártudomány 2: 546-561. Sept.1950. 19 Ag83

English summary.

20425 KYOTO DIAGAKU NOGAKU-BU. Hiryo pokketo bukku [The manure pocket book]. Tokyo,Sangyo Tosho, 1950. 173 p. 57 K99

20426 MÄNSSON, E. Burning of straw or plowing it into the soil. (In Swedish.) Växt-Närings-Nytt 6(4):9-12. 1950. 57.8 V47



- 20427 MORSE, R. How to make compost. Green Thumb 7(12):11-12. Dec.1950. 80 G82
- 20428 PARCHER, E. S. Humus for free. Gard. & Gard. Chron. 54(7):69-72. Oct.1950. 80 G1632 Compost.
- 20429 POZZI-ESCOT, M. E. La cuestión de la estabilización y de la conservación del guano de islas. Cong. Peruano de Quim. Actas y Trab. 1949(2):670-672. 385 C763
- 20430 RODRIGUES, F. G. Silos for compost, according to Sir Albert Howard. (In Portuguese.) (Condensed.) Chacaras e Quintais. 82:591-593. Nov.15,1950. 9.2 C34
- 20431 RODRIGUEZ ESCRIBENS, M., PÉREZ VAL-VERDE, I., and GARCIA GUILLINTÁ, M. J. La estabilización del nitrógeno en el guano de las islas del Perú. Cong. Peruano de Quim. Actas y Trab. 1949(2):565-576. 385 C763
- 20432 SERGENT, F. Le guano du Perou. Cour. Hort. 12:598-599. Nov.1950. 80 C834
- 20433 SHOCKLEY, H. G. Florida's stricken waters. IV. Farmers' cooperatives should be organized to utilize water hyacinths for farms and orchards. Org. Gard. 17(6):40. Dec.1950. 56.8 Or3
- 20434 THOMASSON, R. R. When it comes to manures, use what is available. Horticulture 28:404,424. Nov.1950. 80 H787
- 20435 YAMASAKI, T. On the method of total nitrogen determination in compost, especially when nitric nitrogen is contained. (In Japanese.) Tokyo. Natl. Agr. Expt. Sta. J. 4:105-113. Ref. Mar.1950. 107.6 N63J English summary.
- 20436 ZEEUW, A. DE. Composting of garden waste in intensive culture. (In Dutch.) Groenten en Fruit 6: 235-236. Oct.5,1950. 80 G89
- 20437 ZENDY-ZUCKER, F. Estiercol artificial. IDIA; Inform. de Invest. Agr. 3(33/34):12-14. Sept./Oct. 1950. 9 Id3

## FORESTRY

## GENERAL

- 20438 BOURUET-AUBERTOT, J. La crise de la production forestière en Côte-d'Ivoire. Marchés Colon. 6:3045-3046. (To be cont.) Dec.23,1950. 286.8 M33
- 20439 CLEPPER, H. Forestry's first fifty years. Sci. Mon. 71:387-392. Dec.1950. 470 Sci23
- 20440 CORING, H. Der forstmann als fürsprecher des waldes in der öffentlichkeit. Deut. Forstmann, p. 54-55. (Concl.) In Forst u. Holz 5(18). Sept.15,1950. 99.8 F7724
- 20441 HAGBERG, E. The development of forestry in Southern Sweden during the last quarter of the century. (In Swedish.) Lantbrakad. Tidskr. 80:304-314. 1950. 104 Sw3 English summary.
- 20442 HAGEN, VON DEM. Deutsche forstleute besuchen England. Übersicht 1(2):17-21. Oct.1,1950. 18 Ub3
- 20443 HORNSMANN, E. Beim forstmann liegt die zukunft. Allg. Forstz. 5:533-534. Dec.6,1950. 99.8 AL52
- 20444 HOUTZAGERS, G. Forestry and forestry research in the United States of America. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 61:355-360. Dec. 1950. 12 N282
- 20445 HOUTZAGERS, G., and BURGER, F. W. The Fourth Poplar Congress at Geneva and trip to West Germany. (In Dutch.) Nederland. Boschbouw Tijdschr. 22: 323-330. Nov.1950. 99.8 N28
- 20446 KELSO, E. G. Forestry on the larger holdings in the Northeast. J. Forestry 48:866-870. Dec.1950. 99.8 F768
- 20447 KOTOK, E. I. Wood in our economy. Washington, U. S. Forest Serv., 1950. 8 p. 1.962 A2K84 Presented at convention of the International Woodworkers of America, Minneapolis, Sept. 11-15, 1950.
- 20448 KUNZ, R. Congrès pour l'étude des problèmes forestiers de la région méditerranéenne. Schweiz. Z. f. Forstw. 101:575-585. Oct./Nov.1950. 99.8 J82
- 20449 LANE, S. F. B. Forest in Britain. 3. The middle period. Trees & New Earth 14:85-87. Autumn 1950. 99.8 T714
- 20450 MIANI-CALABRESE, D. Luigi Luzzati's ideas on forestry. (In Italian.) Foreste 2:97-106. Aug. 1950. 99.8 F7694

- 20451 NAKAMURA, K. Zoringaku gairon [Outline of forestry]. Tokyo, Asakura Shoten, 1949. 117 p. 99.26 N14Z
- 20452 NIEMENMAA, H. Occupational distribution of foresters from the commercial branch. (In Finnish.) Metsätaloudellinen Aikakauslehti 1950:297-298. Sept. 1950. 99.9 F49 English summary.
- 20453 PALMER, E. Stop ruthless felling of bushveld's giant trees! Veldtrust 11(8):18-19,31. Aug.1950. 56.8 V54
- 20454 PRESCHER, H. Das sollte uns zu denken geben! Deut. Forstmann, p.45-46,53. In Forst u. Holz 5(16,18). Aug.15, Sept.15, 1950. 99.8 F7724 Includes reply by H. A. Wilckens. Personnel situation.
- 20455 RIU VULART, J. M. El momento forestal. Cam. Ofic. Sind. Agr. de Barcelona. B. 5:261-262. Oct. 1950. 15 C14
- 20456 SCHWEIZERISCHER forstkalender, 46, 1951. Frauenfeld, 1950. 286 p. 99.83 Sch9
- 20457 SHIRLEY, H. L. Employment and unemployment in forestry. World Forestry Cong. Proc. 3(1):122-140. Ref. 1949. 99.9 C76912A
- 20458 SROKA, K. Die berufskrankheiten in der forstwirtschaft. Deut. Forstmann, p.46-47. In Forst u. Holz 5(16). Aug.15, 1950. 99.8 F7724
- 20459 TROMP, H. Leistungen, aufgaben und bedeutung der wald- und holzwirtschaftlichen verbände der Schweiz. Schweiz. Z. f. Forstw. 100:325-346. Ref. July/Aug.1949. 99.8 J82
- 20460 VAN CAMP, J. L. They changed their name but not their aim! (Annual meet of the Canadian Institute of Forestry) Forest & Outdoors 46(12):3. Dec.1950. 99.8 C16
- 20461 WATTS, L. F. The role of forests and foresters in our national economy. Washington, U. S. Forest Serv., 1950. 6 p. 1.962 A2W34 Address at Golden Anniversary meeting of Society of American Foresters, Washington, D. C., Dec. 16, 1950.
- 20462 WORLD FORESTRY CONGRESS, 3, 1949. Proceedings. 1-2. Helsinki, 1949. 2 v. 99.9 C76912A

## Education

- 20463 ALLEN, G. S. Forest research at the University of British Columbia. Brit. Columbia Lumberman 34(12):64,66,108,110,112,114. Dec.1950. 99.81 B77
- 20464 BENNETT, H. D. An educational forestry program. South. Lumberman 181(2273):257-258. Dec.15, 1950. 99.81 So82
- 20465 DEEN, J. L. Forestry education in Europe. Amer. Forests 57:18-20,36-42. Jan.1951. 99.8 F762
- 20466 GAR'KIN, A. Correspondence courses for workers in forestry. (In Russian.) Lesn. Khoz. 3(6):80-81. June 1950. 99.8 L5622 Vsesoiuznyi Zaochnyi Lesnoi Tekhnikum.
- 20467 HVEDING, A. Forestry and education. (In Norwegian.) Skogbrukeren 25:268. Nov.1,1950. 99.8 Sk54
- 20468 MCCLELLAN, J. C. Forest paradox. South. Lumberman 181(2273):262,264,266. Dec.15,1950. 99.81 So82
- Need for education in forestry.
- 20469 POPKOV, A. G. Day of the soil conservationist. (In Russian.) Les i Step' 2(8):84-85. Aug.1950. 99.8 L565
- Monthly meetings of collective farm foresters to discuss problems of shelterbelt silviculture.
- 20470 RONESS, B. H. The vocational school for forest laborers in its 4th teaching year. (In Norwegian.) Tidsskr. f. Skogbruk 58:54-55. Mar.1950. 99.8 T432

## Policies, Programs, Administration

- 20471 AAHEIM, R. Great Britain restores its forests. (In Norwegian.) Tidsskr. f. Skogbruk 58:33-42. Mar.1950. 99.8 T432
- 20472 ANGELINI, G. Regional and forest autonomy. (In Italian.) Foreste 2:139-141. Oct.1950. 99.8 F7694 Italy.
- 20473 AUBREVILLE, A. Technical assistance in the development of tropical forests. Unasylva 4:155-158. Oct./Dec.1950. 99.8 Un1
- 20474 CHEKMENEV, E. M. The great attack. (In Russian.) In Shibanov, A. A., comp. Sbornik statei po voprosam Michurinskoi biologii, p.36-42. Moskva, Ministerstvo Prosvshcheniia RSFSR, 1950. 442 Sh6S Stalin Plan for afforestation of the steppes.



- 20475 CIVIDINI, R., and WRABER, M. Institut Forestier de Slovenie en 1947-1949. (In Croatian.) Gozdarski Inst. Slovenije. Izv. 1:1-22. 1950. 99.9 L76 French summary.
- 20476 CLAUSON, SIR G. What is technical assistance? Unasylya 4:148-150. Oct./Dec.1950. 99.8 Un1
- 20477 COORG. FOREST ADMIN. Progress report, 1947-48, by C. M. Kushalappa. Bangalore, 1950. 55 p. 99.9 In2Co
- 20478 DAVIS, L. H. How should the new public domain be managed? N. Y. Agr. Col. Farm Econ. 177:4579-4583. Nov.1950. 280.8 C812 Forest lands.
- 20479 DIETERICH, V. Waldnaturnahe forstwirtschaft. Forstarchiv 21:81-87. Sept.30,1950. 99.8 F7723 Germany.
- 20480 ERRICO, P. D'. Reforestation of coastal and continental dunes in the Polesine Lowland. (In Italian.) Rass. Econ. del Polesine (n.s.)4:181-187. Sept./Oct.1950. 280.8 R183
- 20481 EVANS, J. D. D. Afforestation in South Wales; the picture is not so black as some would paint it. Field 196:998. Dec.9,1950. 10 F45
- 20482 FIJI. DEPT. OF FORESTRY. Annual report for 1948 and 1949. Suva, 1950. 40 p. 99.9 F47
- 20483 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Les combinats sylvicoles. World Forestry Cong. Proc. 3(2):49-61. 1949. 99.9 C76912A English summary.
- 20484 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. La sylviculture en face des tendances de l'industrie du bois. World Forestry Cong. Proc. 3(2):34-48. 1949. 99.9 C76912A English summary.
- 20485 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. La sylviculture en face des travailleurs de bois. World Forestry Cong. Proc. 3(2):62-75. 1949. 99.9 C76912A English summary.
- 20486 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. SECRETARIAT. FAO and technical assistance. Unasylya 4:159-162. Oct./Dec. 1950. 99.8 Un1
- 20487 GREELEY, W. B. Rational approach to forest practices on private lands. Paper Trade J. 131(23):18-20. Dec.7,1950. 302.8 P196
- 20488 GREYERZ, H. VON. Von tatsachen zurück auf ursachen und dann weiter zu prognosen. Schweiz. Z. f. Forstw. 101:642-656. Dec.1950. 99.8 J82 Forestry situation.
- 20489 GROSS, H. Bauernwald, landschaftspflege und dorfgenossenschaft. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:203-206. Dec.1950. 18 D4822 Russian Zone of Germany.
- 20490 GUREEV, N. M. We will grow in the steppe stable and lasting tree plantations. (In Russian.) Les i Step' 2(8):6-11. Aug.1950. 99.8 L565 Policy of Odessa Region.
- 20491 HACHENBERG, F. Kahlflächen und wiederaufbau eines biologisch gesunden waldes. Forst u. Holz 5:302-304. Oct.1,1950. 99.8 F7724
- 20492 HALLANDER, Å. Cooperation between the forest protection boards and the forest owners associations. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 48:252-257. 1950. 99.8 Sk5
- 20493 HAMMERLE, W. C. Progress of forestry in the South. South. Lumberman 181(2273):251-252. Dec.15, 1950. 99.81 So82
- 20494 HANDEL-MAZZETTI, P. Die forst- und holzwirtschaft in den Vereinigten Staaten. Internatl. Holzmarkt 41(18):44-47. (Cont.) Sept.9,1950. 99.81 In82
- 20495 IBY, G., and MADAS, A. Relations of forestry to agriculture in rural economy. World Forestry Cong. Proc. 3(1):109-115. 1949. 99.9 C76912A
- 20496 KOEHLER, W. Niedersachsens forstetät unter der lupe. Deut. Forstmann, p. 57-60. In Forst u. Holz 5(19). Oct.1,1950. 99.8 F7724
- 20497 KOOLS, J. F. Economics and policy of exploiting virgin forests in the tropics. World Forestry Cong. Proc. 3(1):85-94. 1949. 99.9 C76912A
- 20498 KOTOK, E. I. Forestry and the Point Four Program. Unasylya 4:152-154. Oct./Dec.1950. 99.8 Un1
- 20499 LAAR, A. VAN. Permanent increase of production in Netherlands forestry. (In Dutch.) Nederland. Heldemaatsch. Tijdschr. 61:361-366. Dec.1950. 12 N282
- 20500 LINDH, E. A. Cooperation between the forest protection boards and the forest owners associations. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 48:258-264. 1950. 99.8 Sk5
- 20501 LIPPE, F. VON DER. Forest plantings by school children. (In Norwegian.) Tidsskr. f. Skogbruk 58:45-47. Mar.1950. 99.8 T432
- 20502 MCKAY, D. Oregon states its case: against socialized forestry. Amer. Forests 57:6-9,43. Jan.1951. 99.8 F762
- 20503 MALAYA. FEDERAL FOREST ADMIN. Report for the year 1949, by J. P. Edwards. Kuala Lumpur, 1950. 68 p. 99.9 F31
- 20504 MALSCH, F. W. Third session of the European Commission on Forestry and Forest Products. (In Dutch.) Nederland. Boschbouw Tijdschr. 22:368-374. Dec.1950. 99.8 N28
- 20505 MANTEL, W. Gedanken über eine forstliche verwaltungsreform in Bayern. Allg. Forstz. 5:503-504. Nov.22,1950. 99.8 AL52
- 20506 MARTIN, C. S. Government and the forest economy. Brit. Columbia Lumberman 34(12):60,62,124, 126,130. Dec.1950. 99.81 B77
- 20507 MAYER-WEDELIN, H. Entwicklung und stand der türkischen forstwirtschaft. Forstarchiv 21:102-107. (Concl.) Ref. Sept.30,1950. 99.8 F7723
- 20508 MELIKHOV, P. S. We shall create exemplary plantations in the valuable forest massifs of U.S.S.R. (In Russian.) Lesn. Khoz. 3(6):21-25. June 1950. 99.8 L5622
- 20509 MIKHALIN, I. IA. Greater attention to general construction. (In Russian.) Lesn. Khoz. 3(6):44-47. June 1950. 99.8 L5622 Policy of the Ministry of Forestry in 1950.
- 20510 NEW ZEALAND. FOREST SERV. Annual report of the director of forestry for the year ended 31st March, 1950. Wellington, 1950. 98 p. 99.9 N49A
- 20511 NIGGLI, R. Le reboisement du bassin de réception de la Baye de Montreux. Schweiz. Z. f. Forstw. 100:283-296. June 1949. 99.8 J82
- 20512 PEDOTTI, E. Questions du reboisement dans le Canton du Tessin. Schweiz. Z. f. Forstw. 101:617-632. Dec.1950. 99.8 J82
- 20513 PEREZ-GUERRERO, M. The expanded program of technical assistance. Unasylya 4:147-148. Oct./Dec.1950. 99.8 Un1
- 20514 PETROV, S. Again on bad planning. (In Russian.) Lesn. Khoz. 3(6):53. June 1950. 99.8 L5622 In forestry.
- 20515 ROBAK, H. British reforestation and research activities. (Sum.) (In Norwegian.) Skogbrukeren 25:265-266. Nov.1,1950. 99.8 Sk54
- 20516 SCHLEICHER, R. F. Tree planting program pays many dividends. Nature Mag. 43:542-543. Dec.1950. 409.6 N214
- 20517 SEN, B. R. Progress of Point Four. Unasylya 4:151-152. Oct./Dec.1950. 99.8 Un1
- 20518 SEVNIK, F. L'aménagement des forêts lors du passage dans l'économie socialiste. (In Croatian.) Gozdarski Inst. Slovenije. Izv. 1:91-112. 1950. 99.9 L76 French summary.
- 20519 SHEMAGONOV, A. T. We will convert valuable forest massifs into exemplary bases of tree seeds. (In Russian.) Les i Step' 2(8):81-83. Aug.1950. 99.8 L565 Policy of Lenin Leskhov in Rostov Region.
- 20520 SILVEIRA, G. G. DA. Reforestation in the State of Minas Gerais. (In Portuguese.) Lavoura 54:40-41. July/Aug.1950. 9.2 L39
- 20521 SOBRINHO, V. Requirements of a growing nation [Brazil]. Unasylya 4:154-155. Oct./Dec.1950. 99.8 Un1
- 20522 STANER, P. Organisation de l'exploitation forestière au Congo Belge. World Forestry Cong. Proc. 3(1):147-162. 1949. 99.9 C76912A English summary.
- 20523 STARCHENKO, I. I. Organization of selected forest seed production—an urgent matter. (In Russian.) Lesn. Khoz. 3(6):82-83. June 1950. 99.8 L5622
- 20524 STASSEN. Der genossenschaftswald in Südhannover, seine entstehung, entwicklung und gegenwärtige rechtsstellung. Forstl. Mitt. 3:145-146,155-156. Oct.5-20 1950. 99.8 F7725
- 20525 TASMANIA. FORESTRY COMMISSION. Report for the year ended 30th June, 1950. Tasmania, 1950. 20 p. 99.9 T182



20526 TRENK, F. B. The last tree is planted, finishing with pomp and ceremony a 13-year job of planting. Ext. Serv. Rev. 21:204-205. Dec.1950. 1 Ex892Ex

Wisconsin school forests.  
Similar title in Wis. Conserv. B. 15(12):24-28. Dec. 1950. 279.8 W752

20527 UGANDA. FOREST DEPT. Annual report for the year ended 31st December, 1949. Entebbe, 1950. 54 p. 99.9 Ug1

20528 UNION OF SOUTH AFRICA. DEPT. OF FORESTRY. Annual report for the year ended 31st March, 1949. Pretoria, 1950. 22 p. 99.9 So84R

20529 U. S. FOREST SERV. Report of the chief; statistical supplement, 1949/50. Washington? 1950. 16 p. 1 F76

20530 VAISSIÈRE, J. DE. Politique de reboisement & implications économiques. World Forestry Cong. Proc. 3(1):95-108. 1949. 99.9 C76912A  
English summary.

20531 VAS'KOV, I. G. Toward more extensive competition among the transformers of nature. (In Russian.) Lesn. Khoz. 3(6):5-9. June 1950. 99.8 L5622  
Forest laborers.

20532 VESTERINEN, E. Der erste finnische "Reichs-Waldmarsch." Schweiz. Z. f. Forstw. 101:662-664. Dec. 1950. 99.8 J82

20533 VICTORIA. FORESTS COMMISSION. Thirtieth annual report, financial year 1948-49. Melbourne, 1950. 39 p. 99.9 V66

20534 WECK, J. Present conditions and objectives of German forestry. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 48:265-283. 1950. 99.8 Sk5

20535 ZUCKERMAIR, D. Der gemeindeforstsaufseher. Allg. Forstz. 5:454-455. Oct. 25, 1950. 99.8 AL52

20536 ZÜHLKE, R. S. Vorwald, waldbrüche, wieder-aufstellungen. Forst u. Holz 5:288-290. Sept. 15, 1950. 99.8 F7724

20537 ŽUMER, L. Introduction into perspective planning in timber industry. (In Croatian.) Gozdarski Inst. Slovenije. Izv. 1:113-147. 1950. 99.9 L76  
English summary.

#### Legislation and Taxation

20538 CLAPP, C. E. New law widens scope of private forest management. South. Lumberman 181(2273): 181-182. Dec. 15, 1950. 99.81 So82

20539 DEGLER, R. H. Forest Crop Act in action. Mo. Conserv. 11(12):6,8-9. Dec. 1950. 279.8 M69

20540 HEINRICHS, W. Für und wider zoll in Torquay. Norddeut. Holzwirt. 4(38):2. Sept. 21, 1950. 99.82 N75

20541 RICARD, R. French legislation on reafforestation and the replanting of forests. Food & Agr. Organ. United Nations. Leg. Serv. Leg. Inform. 1:175-186. Nov. 1950. 30.5 F73

20542 ROTHKEGEL, W. Zur ermittlung des steuerwertes von waldungen. Allg. Forstz. 5:459-460. Oct. 25, 1950. 99.8 AL52

20543 WORLEY, K. H. The Timber Marketing Act, 1945, and the sale of timber. N. S. Wales. Forestry Comn. Div. Wood Technol. Tech. Notes 4(10/12):23. Aug. 1950. 99.9 N472T

#### Forest Description and Resources

20544 APPELROTH, E. A Finnish forester's impressions of Danish forests. (In Swedish.) Skogbrukeren 25:277-278. Nov. 15, 1950. 99.8 Sk54

20545 BELTRAM, V. The Slavonian forests. (In Croatian.) Gozdarski Vest. 8:183-196. 1950. 99.8 G74  
English summary.

20546 CUNNINGHAM, R. N. Forest resources of the Lake States region. U. S. Forest Serv. Forest Resource Rpt. 1, 57 p. Ref. 1950. 1 F76Fr

20547 FINCH, T. L., HODGE, W. C., and METCALF, M. E. Forest resources of South Central Montana. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Paper 23, 19 p. Apr. 1950. 1.9622 N31St1

20548 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Forest resources and human needs for wood. World Forestry Cong. Proc. 3(2):13-33. 1949. 99.9 C76912A

20549 FOOD AND AGRICULTURAL ORGANIZATION OF THE UNITED NATIONS. Planning a national forest inventory. Food & Agr. Organ. United Nations. FAO Forestry & Forest Prod. Studies 1, 88 p. Sept. 1950. 99.9 F73Fa

20550 FOX, C. E. From these green hills, a brief review of forests and forestry in California. Sacramento, Div. Forestry, Calif. Dept. Nat. Resources, 1950. 149 p. 99.61 F83

20551 FRANCEY, J. La forêt vaudoise hier et aujourd'hui. Forêt 4:11-18. Oct. 1950. 99.8 F7683

20552 FRITZ, E. Redwood forests and permanent lumber supplies. South. Lumberman 181(2273):253-256. Dec. 15, 1950. 99.81 So82

20553 HOSSL, H. Der klemenwald der Korporation Zug. Schweiz. Z. f. Forstw. 100:375-376. July/Aug. 1949. 99.8 J82

20554 KEMP, P. D., and DICKERMAN, M. B. Montana forest resource and industry statistics. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Paper 23, 49 p. Oct. 1950. 1.9622 N3St1

20555 LARSON, R. W. Survey reveals changes in South Carolina's timber supply. South. Lumberman 181(2273):229-232. Dec. 15, 1950. 99.81 So82

20556 NIER, F. M. Venezuelan forest resources. Amer. Forests 57:24-25, 41, 44. Jan. 1951. 99.8 F762

20557 RIEBEN, E. La réserve forestière de la Roche des Arcs. Forêt 4:6-11. Oct. 1950. 99.8 F7683

20558 ROUSSEL, L. La forêt de Levier. Rev. du Bois 5(11):5-11. Nov. 1950. 99.82 R32

20559 RUIZ, C. Nuestro patrimonio forestal. Agr. Austral 18:442-444. Oct. 1950. 9.3 Ag842  
Chile.

20560 SENCHUROV, K. T. Forest resources and lumber industry of the National Republic of China. (In Russian.) Lesn. Promysh. 10(7):29-31. July 1950. 99.82 L56

20561 SZCZOTKA, S. Records of history of forests in Poland. (In Polish.) Sylwan 94(2):49-68. 1950. 99.8 Sy52

English summary.

20562 VEIGA, A. DE A. Mixed forest stands and other matters. (In Portuguese.) Rev. de Agr. [Piracicaba] 25:291-296. Sept./Oct. 1950. 9.2 R324

20563 VEILLON, T. P. Los baldios de la selva de Turén. Agr. Venezol. 15(144):19-23. July 1950. 9.95 Ag8

20564 WETTSTEIN, W. Forstliche züchtung, ihre bedeutung für den sortenausgleich der holzbilanz Österreichs und seiner nachbarstaaten. Österr. Gesell. f. Holzforsch. Schreibe. 2:32-41. 1950. 99.9 Os72S

#### Individual Genera and Species

20565 ÅKERHJELM, L. The oak forest at Visingsö. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 48:298-314. 1950. 99.8 Sk5

20566 AMELINCKX, F. The Japanese larch, Larix leptolepis Gord. (In Flemish.) Cult. en Handel 16:749-750. Dec. 1950. 80 C892

20567 BELOZEROV, P. I. A Pinus cembra sibirica grove near Vologda. (In Russian.) Bot. Zhur. 35:292-294. May/June 1950. 451 R923

20568 BIRICHEVSKAIA, L. P. On giant sequoia [Sequoia gigantea]. (In Russian.) Lesn. Khoz. 3(6):78-79. June 1950. 99.8 L5622

Experiments in growing it in Kirovakan Section of the Botanical Garden of the Armenian Academy of Sciences.

20569 BOUTIÈRES, D. Où en sont en France les problèmes relatifs au châtaignier? Bois et Scieries 56: 1083. Nov. 23, 1950. 99.81 B632

20570 BRUSH, W. D. Western white pine, Pinus monticola, Douglas. Amer. Forests 57:28-29. Jan. 1951. 99.8 F762

20571 CARVER, J. E. The cedars of Lebanon [Cedrus libani]. Timber Canada 11(4):23-25, 78-79. Dec. 1950. 99.81 T487

20572 DUGELAY, A. Le liège dans le Département du Var. Rev. du Bois 5(12):7-14. Dec. 1950. 99.82 R32

20573 JAHN, R. Die lärche. Allg. Forstz. 5:530-531. Dec. 6, 1950. 99.8 AL52

20574 JAYME, G. Australiens eukalyptusbäume. Umschau 50:662-664. Nov. 1, 1950. 474 Um7

20575 LITTLE, E. L., JR. Southwestern trees; a guide to the native species of New Mexico and Arizona. U. S. D. A. Agr. Handb. 9, 109 p. Ref. Dec. 1950. 1 Ag84Ah

20576 LØFTING, E. Austrian and Corsican pine. (In Danish.) Hedeselsk. Tidsskr. 71:257-260. Sept. 10, 1950. 11 H35



- 20577 MACIEJOWSKI, K. Douglas fir in Polish forests, its usefulness and importance to the forest economy. (In Polish.) Sylwan 94(1):58-75;(2):33-48. Ref. 1950. 99.8 Sy52  
English summary.
- 20578 MILOSEVIĆ-BREVINAC, M. Robinia pseudacacia and Ailanthus glandulosa in the peasant economy. (In Serbian.) Sumarski List 74:401-409. Sept./Oct. 1950. 99.8 Su6
- 20579 NELBÖCK-HOCHSTETTER, H. Einiges über die finnischen birkenbestände. Allg. Forstztg. 61:193-195. Dec. 1950. 99.8 AL53
- 20580 PADDOCK, W. R. A forest "weed" [Prunus pennsylvanica] goes to market. South. Lumberman 181(2273):195-196. Dec. 15, 1950. 99.81 So82
- 20581 RAVE. Altes und neues über die sitkafichte [Picea sitchensis]. Forst u. Holz 5:301-302. Oct. 1, 1950. 99.8 F7724
- 20582 SAVCHENKO, A. I. Growth of European larch [Larix europaea] in the forest of White Russia. (In Russian.) Lesn. Khoz. 3(6):70-72. June 1950. 99.8 L5622
- 20583 SCHIEMER, E. L. Unsere braupappel [Populus canescens] in Südafrika. Allg. Forstz. 5:446-447. Oct. 18, 1950. 99.8 AL52
- 20584 SCHIPPEL, H. Ein mahnwort an Douglasienwirte. Allg. Forstz. 5:531. Dec. 6, 1950. 99.8 AL52
- 20585 SOCIÉTÉ EUROPÉENNE DE REBOISEMENT. Un nouveau peuplier: le "Mac-Kee." Cour. Hort. 12:498. Sept. 1950. 80 C834
- 20586 TEPP, M. Arboles patagónicos. (Extr.) Agronomía [Habana] (ser. 2) 10(10):23. Nov. 1950. 8 C893
- 20587 TIEMANN, H. D. What are the most remarkable trees. South. Lumberman 181(2273):211-216. Dec. 15, 1950. 99.81 So82
- 20588 TROFŠENKO, I. V. Smoke tree [Cotinus coggia]. (In Russian.) Les i Step' 2(8):38-43. Aug. 1950. 99.8 L565
- 20589 VEENENDAAL, H. Excursion impressions of the growth of silver fir in East Friesland. (In Dutch.) Nederland. Boschbouw Tijdschr. 22:331-333. Nov. 1950. 99.8 N28
- 20590 WIMBUSH, S. H. Catalogue of Kenya timbers. Nairobi, Govt. Printer, 1950. 69 p. 460.44 W71
- 20591 YARHAM, E. R. The Douglas fir in Britain. Brit. Columbia Lumberman 34(12):74, 80. Dec. 1950. 99.81 B77
- FOREST MANAGEMENT AND FINANCE**
- 20592 BUSSE, VON. Das bisherige bewertungsverfahren - eine gefahr für das bestehen der forstbetriebe. Forst u. Holz 5:291-292. Sept. 15, 1950. 99.8 F7724
- 20593 CAMPELL, E. Wie kann der schneisenaushieb für fernleitungen auf ein minimum eingeschränkt werden? Schweiz. Z. f. Forstw. 101:565-570. Oct./Nov. 1950. 99.8 J82
- 20594 EDEN, J. Cutting and care of forest openings for power lines. (In Swedish.) Skogen [Stockholm] 37:230-233. Nov. 1, 1950. 99.8 Sk51
- 20595 EHWARD, E. Über das zusammenwirken von standortskunde und pflanzensoziologie bei der forstlichen standortskartierung. Allg. Forstz. 5:416-418. Oct. 4, 1950. 99.8 AL52
- 20596 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Le passage de la forêt vierge à la forêt aménagée. World Forestry Cong. Proc. 3(2):76-92. 1949. 99.9 C76912A  
English summary.
- 20597 FRANCEY. Le traitement des forêts vau- doises notamment sur le plateau. Soc. Forest. de Franche-Comté et des Provs. de l'Est B. Trimest. 25: 616-630. Sept. 1950. 99.9 So14
- 20598 HAUDENSCHILD, W. Die verwendung von baumaschinen im waldstrassenbau. Schweiz. Z. f. Forstw. 101:531-545. Oct./Nov. 1950. 99.8 J82
- 20599 HEIBERG, H. H. Measures for ensuring sustained yield in forestry. World Forestry Cong. Proc. 3(1):116-121. 1949. 99.9 C76912A
- 20600 JAHN, R. Zur praxis der forstlichen standorts- kartierung. Allg. Forstz. 5:501-502. Nov. 22, 1950. 99.8 AL52
- 20601 KARPIŃSKI, J. J. The problem of biocenosis in forest management. (In Polish.) Sylwan 94(1):3-14. 1950. 99.8 Sy52  
English summary.
- 20602 LINDQUIST, B., and PETRINI, S. Production losses in present Swedish Forestry. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 48:241-251. 1950. 99.8 Sk5  
Forest management.
- 20603 LOETSCH. Quantitative und qualitative holz- vorratsinventur nach dem verfahren des repräsentativen querschnittes. Allg. Forstz. 5:491-493. Nov. 15, 1950. 99.8 AL52
- 20604 MÜLLER-THOMAS, H. Pappelholzeinschlag; fällen, aufarbeiten, entrinden und verholzen. Forstar- chiv 21:92-99. Sept. 30, 1950. 99.8 F7723
- 20605 PLATZER, H. B. Gedanken zur abstimmung der arbeiten des hauungs- und kulturbetriebes mit wege- bau und wildbachverbauungsarbeiten in Harz im besonde- ren und in bewaldeten bergländern im allgemeinen. Forst u. Holz 5:285-286. Sept. 15, 1950. 99.8 F7724
- 20606 PULP AND PAPER RESEARCH INSTITUTE OF CANADA. Construction and maintenance of forest truck roads, report prepared by C. R. Silversides. Woodlands Res. Index 60(B-8-b), 137 p. Ref. May 1949. 99.8 W855
- 20607 RAVE. Betrachtungen über den stand und die entwicklung der holzpreise. Forst u. Holz 5:253-255. Aug. 15, 1950. 99.8 F7724
- 20608 ROTH, C. Die umwandlung nicht standortsge- mässer nadelwäldungen im Aargau. Schweiz. Z. f. Forstw. 100:253-282. June 1949. 99.8 J82
- 20609 SCAMONI, A. Kriterien bei der standorts- kartierung im bereich des diluviums von Mecklenburg, Brandenburg und Sachsen-Anhalt. Allg. Forstz. 5:435-438. Oct. 4, 1950. 99.8 AL52
- 20610 SCHLENKER, G. Forstliche standortskartie- rung in Württemberg. Allg. Forstz. 5:418-422. Ref. Oct. 4, 1950. 99.8 AL52
- 20611 STREINZ, A. J. More timber-growing capaci- ty means larger annual yields. South. Lumberman 181(2273):179-180. Dec. 15, 1950. 99.81 So82
- 20612 STREYFFERT, T. The effect of industrial and chemical development on silviculture and forest management. World Forestry Cong. Proc. 3(1):208-218. 1949. 99.9 C76912A
- 20613 TINKER, E. W. The business of growing trees for the pulp and paper industry. Paper Trade J. 131(24):30, 32. Dec. 14, 1950. 302.8 P196
- 20614 WITTICH, W. Die auswertung der standorts- kartierung durch die forsteinrichtung. Allg. Forstz. 5: 413-418. Oct. 4, 1950. 99.8 AL52
- 20615 ZEHNDER, J. Some considerations on methods of job investigations. World Forestry Cong. Proc. 3(1): 141-146. 1949. 99.9 C76912A
- Farm Woodlands**
- 20616 BAKER, H. L. Owner makes money improving farm woodlot. W. Va. Conserv. 14(9):22-24, 40-41. Dec. 1950. 279.8 W524
- 20617 BURNS, P. Y. Value of farm woodlot manage- ment in Missouri. Mo. Agr. Expt. Sta. C. 349, 8 p. July 1950. 100 M693
- 20618 CROKER, T. C. Small longleaf tracts show profit. Forest Farmer 10(2):12. Nov. 1950. 99.8 F7692  
Pinus palustris.
- 20619 GIBBS, P. A. S.C.S. farm planning for wood- land areas. Forest Farmer 10(2):14. Nov. 1950. 99.8 F7692
- 20620 GROSS, H. Pflege und nutzung des bauerwal- des. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:41-42. Sept. 1950. 18 D4822  
Russian Zone of Germany.
- 20621 MOODY, A. B. Farm afforestation [South Australia]. So. Austral. Dept. Agr. J. 54:145-147, 149. Oct. 1950. 23 So84
- 20622 NIELAND, L. T. Your timber should pay cash. Fla. Grower 58(12):23. Dec. 1950. 80 F6622
- 20623 REYNOLDS, H. A. U.S. plan promotes managed woodlots. Woodland World 3(10):8. Oct. 1950. 99.8 W853
- 20624 U. S. DEPT. OF AGRICULTURE. OFF. OF IN- FORMATION. Timber for the future, by C. F. Evans, D. Nelson, R. E. McArdle, and B. Bergoffen. Washington, 1950. 5 p. 1.914 R2R11  
Farm woodland management.
- Mensuration**
- 20625 CAMPBELL, R. A., PRICE, H. R., and MORIN, R. A. Timber estimating by tree grade. South. Lumber- man 181(2273):243-245. Dec. 15, 1950. 99.81 So82



- 20626 CRAFTS, E. C. Coordination of forest survey data for large areas. World Forestry Cong. Proc. 3(1): 80-84. 1949. 99.9 C76912A
- 20627 FARMER, R. M. Timber cruising, a necessity for good forestry management. Agrarian 10:26. Nov. 1950. 276.8 Ag8
- 20628 FINNEY, D. J. An example of periodic variation in forest sampling. Forestry 23:96-111. 1950. 99.8 F767
- 20629 HUMMEL, F. C., and WATERS, W. T. General volume table for beech in Great Britain. Gt. Brit. Forestry Comn. Forest Rec. 6,11 p. 1950. 99.9 G795Fo
- 20630 HUMMEL, F. C., and WATERS, W. T. General volume table for oak in Great Britain. Gt. Brit. Forestry Comn. Forest Rec. 5,11 p. 1950. 99.9 G795Fo
- 20631 HUMMEL, F. C., IRVINE, T. W., and JEFFERS, J. General volume tables for European larch in Great Britain. Gt. Brit. Forestry Comn. Forest Rec. 9, 25 p. 1950. 99.9 G795Fo
- 20632 HUMMEL, F. C., IRVINE, T. W., and JEFFERS, J. General volume tables for Scots pine in Great Britain. Gt. Brit. Forestry Comn. Forest Rec. 8,27 p. 1950. 99.9 G795Fo
- 20633 HUMMEL, F. C. The methods employed in the national forest survey of Great Britain 1947-49. World Forestry Cong. Proc. 3(1):39-52. 1949. 99.9 C76912A
- 20634 ILVESSALO, Y. Forest surveying by ground survey. World Forestry Cong. Proc. 3(1):61-68. 1949. 99.9 C76912A
- 20635 KREUTZINGER, M. Definition of increment on large areas. World Forestry Cong. Proc. 3(1):69-79. 1949. 99.9 C76912A
- 20636 LØVENGREEN, J. A. Estimating mirror to mark out circular test plots as well as to measure basal area tested by the State Forestry Research Service. (In Danish.) Dansk Skovfor. Tidsskr. 35:509-527. Oct. 1950. 99.8 D23
- 20637 PIPAN, R. Significance and role of frequency curve in forest management. (In Croatian.) Gozdarski Inst. Slovenije. Izv. 1:149-182. 1950. 99.9 L76  
English summary.
- 20638 UGGEN, O. From Canada. (In Norwegian.) Skogbrukeren 25:258-260. Oct. 15, 1950. 99.8 Sk54  
Chiefly on forest mensuration.
- ### Aerial Surveying and Photography
- 20639 CAMPBELL, R. M. Use of aerial photographs on large forest ownership. J. Forestry 48:889-890. Dec. 1950. 99.8 F768
- 20640 POLDUSHKIN, G. N. Aerial photography in log floating. (In Russian.) Lesn. Promysh. 10(7):18-20. July 1950. 99.82 L56
- 20641 SAMMI, J. C. The application of statistics to photogrammetry. Photogram. Engin. 16:681-685. Dec. 1950. 325.28 P56  
Includes use in forestry.
- 20642 SEELY, H. E. Different survey methods of large areas: aerial photography. World Forestry Cong. Proc. 3(1):53-60. 1949. 99.9 C76912A
- 20643 SKAPPEL, W. Aerial photographing. (In Norwegian.) Skogbrukeren 25:256-257. Oct. 15, 1950. 99.8 Sk54  
Of forest.
- ### Silviculture
- 20644 AALTONEN, V. T. Earth rays as a growth factor for forest trees. (In Swedish.) Svenska Skogs-vårdsför. Tidskr. 48:284-297. 1950. 99.8 Sk5
- 20645 ALEXANDROWICZ, B. W. A contribution to the site systemization of Polish forests. (In Polish.) Sylwan 94(2):24-32. 1950. 99.8 Sy52  
-English summary.
- 20646 BRÜCKNER, E. Fraget die bäume! Allg. Forstz. 5:427-428. Oct. 4, 1950. 99.8 AL52  
Sites.
- 20647 CARPENTER, I. W., and GUARD, A. T. Some effects of cross-pollination on seed production and hybrid vigor of tulip tree [Liriodendron tulipifera]. J. Forestry 48:852-855. Dec. 1950. 99.8 F768
- 20648 DAY, W. R. The soil conditions which determine wind-throw in forests. Forestry 23:90-95. 1950. 99.8 F767
- 20649 DRANGED, O. Care of forest tree plantings. (In Norwegian.) Landbrukstidende 56:853. Oct. 25, 1950. 11 L236
- 20650 FERGUSON, J. H. A. Some data concerning the growth of even-aged stands of *Pinus merkusii*. (Sum.) Organ. Sci. Res. Indonesia. O. S. R. News 2:99-105. Aug. 1950. 330.9 Or3Ae
- 20651 HART, C. E. The forest tree breeding research work in Denmark of C. Syrach Larsen, Dr. agro. Land Agents' Soc. J. 49:531-536. Ref. Dec. 1950. 282.9 L22
- 20652 KORETSKIĬ, D. A. Shelterbelt silviculture—most important concern of the field cultivating brigades. (In Russian.) Les i Step' 2(8):68-70. Aug. 1950. 99.8 L565
- 20653 KORTUNOV, V. N. We shall rear and preserve every small tree. (In Russian.) Les i Step' 2(8): 65-67. Aug. 1950. 99.8 L565  
Shelterbelt silviculture in Odessa suburban district.
- 20654 LARSEN, C. S. Forest genetics. World Forestry Cong. Proc. 3(1):30-38. 1949. 99.9 C76912A
- 20655 LEVITIN, I. I. On some problems of statistics in shelterbelt silviculture. (In Russian.) Les i Step' 2(8):44-48. Aug. 1950. 99.8 L565
- 20656 MCKNIGHT, J. S. Forest management by Old Man River. South. Lumberman 181(2273):233-235. Dec. 15, 1950. 99.81 So82  
Mississippi River.
- 20657 NELSON, T. C. A reproduction study of northern white cedar [*Thuja occidentalis*]. Mich. U. Microfilm Abs. 10(4):177-178. 1950. 241.8 M58
- 20658 PRIEHÄUSSER, G. Erfahrungen während des trockenjahres 1947 und ihre auswertung für die standorts-erkundung. Allg. Forstz. 5:425-427. Oct. 4, 1950. 99.8 AL52
- 20659 REINHOLD, F. Standort und ertragsleistung. Allg. Forstz. 5:433-435. Ref. Oct. 4, 1950. 99.8 AL52
- 20660 REYNOLDS, R. R. Tree growth in pictures. South. Lumberman 181(2273):164-166. Dec. 15, 1950. 99.81 So82
- 20661 RILEGOR, A. M. Cultivo de la mimbrera. Bolsa de Com., Rosario. Rev. 38(932):11-13. Nov. 15, 1950. 287 R71
- 20662 RUBNER, K. Moostypen als vegetationsweiser. Forstarchiv 21:87-89. Sept. 30, 1950. 99.8 F7723
- 20663 SAVVIN, F. E. Brigades of high quality in silvicultural work. (In Russian.) Les i Step' 2(8):78-80. Aug. 1950. 99.8 L565
- 20664 SCHEFFER, V. B. Rodents practice sustained yield. Nature Mag. 43:538-540. Dec. 1950. 409.6 N214
- 20665 SCHULENBURG, A. F. V. D., GREVE. The problem of the spruce, Europe's No. 1 pulpwood producer. (In Swedish.) Svenska Skogs-vårdsför. Tidskr. 48:321-323. 1950. 99.8 Sk5
- 20666 SMEDT, A. DE. Poplar culture. (In Flemish.) Tuinbouwberichten 14:185. Dec. 15, 1950. 80 T817
- 20667 SMITH, L. F. Good growth from well-stocked longleaf stands. J. Forestry 48:851. Dec. 1950. 99.8 F768
- 20668 SOUZA, P. F. Development and silviculture of tropical virgin forests. World Forestry Cong. Proc. 3(1): 5-13. 1949. 99.9 C76912A
- 20669 STEVENS, J. We love to tell the story, but with pictures! The photos show how trees do grow. South. Lumberman 181(2273):191-194. Dec. 15, 1950. 99.81 So82
- 20670 STOCK. Vorratspflegliche nutzung und ver-jüngung der kiefer. Forst u. Holz 5:304-306. Oct. 1, 1950. 99.8 F7724
- 20671 STRAND, L. Bemerkungen zu "Ergebnissen von anbauversuchen mit verschiedenen fichtenherkünften" von F. Fischer. Schweiz. Z. f. Forstw. 101:664-669. Dec. 1950. 99.8 J82  
With a reply by F. Fischer.
- 20672 TÜRIN, A. V. Phenological observations in the forests of U.S.S.R. and their silvicultural utilization. (In Russian.) Lesn. Khoz. 3(6):13-20. June 1950. 99.8 L5622
- 20673 TORRICELLI DIAZ, E., and MUÑOZ VENEGAS, D. Técnica defectuosa como causa de pérdidas en las plantaciones de pino insigne. Agrario 15(416):26-27;(417): 22-25. (Concl.) Sept.-Oct. 1950. 9.3 Ag85
- 20674 VINCENT, G. La sylviculture et les essences forestières à croissance rapide. Schweiz. Z. f. Forstw. 100:309-325. Ref. July/Aug. 1949. 99.8 J82
- 20675 WAHLENBERG, W. G. A long-term test; a quarter century of forest regrowth in a cut-over and cleaned Appalachian cove. South. Lumberman 181(2273): 183-187. Dec. 15, 1950. 99.81 So82
- 20676 WATT, R. F. Approach toward normal stocking in western white pine stands. Nowest. Sci. 24:149-157. Ref. Nov. 1950. 470 N81



20677 WŁOCZEWSKI, T. Problemes d'actualités de la sylviculture en Suisse. (In Polish.) Sylwan 94(1):15-32. 1950. 99.8 Sy52

French summary.

20678 WŁOCZEWSKI, T. Recherches expérimentales dans le domaine de la sylviculture du point de vue de l'économie forestière. (In Polish.) Sylwan 94(2):17-23. 1950. 99.8 Sy52

French summary.

20679 WRABER, M. Phytosociologie comme base de la sylviculture moderne. (In Croatian.) Gozdarski Inst. Slovenije. Izv. 1:25-78. 1950. 99.9 L76

French summary.

#### Silvicultural Practices

20680 BORG, R. Clearing thinning in stagnated spruce forest and dense young forest with poor deviation capacity. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 48(sup.):17-27. 1950. 99.8 Sk5

20681 BULL, H. Pointers on thinning southern pine. South. Lumberman 181(2273):259-260. Dec.15,1950. 99.81 So82

20682 CELORICO MARTINEZ, A. Poda de la encina. Badajoz. Diputación Prov. B. de Inform. Agr. y Ganad. 8(80):3-7. Sept.1950. 15 B14

20683 FIXMER, F. N. Experiment in mechanical elimination of scrub oak. Pulp & Paper Mag. Canada 51(13):118. Dec.1950. 302.8 P96

20684 FIXMER, F. N. Progress report mechanical thinning experiment in jackpine on the Mosinee Industrial Forest. Pulp & Paper Mag. Canada 51(13):120,122. Dec. 1950. 302.8 P96

20685 FREESE, F., JR. Pine growth doubled by improvement cutting. J. Forestry 48:855. Dec.1950. 99.8 F768

20686 HASLUND, O. Good timber quality and thinning. (In Norwegian.) Skogbrukeren 25:287. Nov.15, 1950. 99.8 Sk54

20687 HUEY, B. M. Pruning western white and ponderosa pine appears profitable. J. Forestry 48:839. Dec.1950. 99.8 F768

20688 HUMMEL, F. C. Can thinning in spruce forest increase the volume production? (In Norwegian.) Tidsskr. f. Skogbruk, 58:60. Mar.1950. 99.8 T432

20689 HUMMEL, F. C. Interim note on a thinning study in young pine in East Anglia (*Pinus sylvestris* L. and *Pinus nigra* var. *calabrica* Schneid.). Forestry 23: 78-89. 1950. 99.8 F767

20690 MITSCHERLICH, G. Säuberungen und läuterungen. Forstarchiv 21:90-91. Sept.30,1950. 99.8 F7723

20691 MUNTZ, H. H. Releasing pine planted under scrub oak. South. Lumberman 181(2273):200-201. Dec.15,1950. 99.81 So82

20692 ROE, E. I., and STOECKELER, J. H. Thinning over-dense jack pine seedling stands in the Lake States. J. Forestry 48:861-865. Dec.1950. 99.8 F768

20693 SCHMID, V. Waldbauliche beobachtungen in den waldungen des Mont Risoud im Waadtländer Jura. Schweiz. Z. f. Forstw. 101:505-512. Oct./Nov.1950. 99.8 J82

20694 SHAKHOV, G. N. Importance of density during thinnings in pure pine plantations. (In Russian.) Lesn. Khoz. 3(6):41-43. June 1950. 99.8 L5622

20695 STOECKELER, J. H., and HEINSELMAN, M. L. The use of herbicides for the control of alder brush and other swamp shrubs in the Lake States. J. Forestry 48: 870-874. Dec.1950. 99.8 F768

20696 TREGUBOV, V. Amenagement des futales jardinees en serie de surface restreinte. (In Croatian.) Gozdarski Inst. Slovenije. Izv. 1:183-229. Ref. 1950. 99.9 L76

French summary.

20697 UBISCH, J. VON. Good timber quality and thinning. (In Norwegian.) Skogbrukeren 25:268-269. Nov.1,1950. 99.8 Sk54

20698 VOEGELI, H. Der mittelwald als studienobjekt für waldbauliche fragen. Schweiz. Z. f. Forstw. 101:586-589. Oct./Nov.1950. 99.8 J82

20699 WIESER, R. F. Die erhaltung des hochgebirgswaldes durch jungwuchspflege und durchforstung. Schweiz. Z. f. Forstw. 101:560-565. Oct./Nov.1950. 99.8 J82

#### Seeding and Planting

20700 BAILEY, V. D., and MONTENEGRO G., E. Forestación significa prosperidad permanente. Cent. Nac. de Agron. C. Agr. 18,6 p. Aug.1950. 8 Sa54C

Planting.

20701 BANTI, G. On the discovery of fir trunks in Lake Delio. (In Italian.) Prov. di Varese 21(20):1-2. Oct.30,1950. 280.8 P846

Possibilities of using the species for reforestation of the area.

20702 CHAMPION, H. G. Biology and technique of afforestation. World Forestry Cong. Proc. 3(1):14-20. 1949. 99.9 C76912A

20703 CHAMPION, H. G. Tree breeding and seed supplies in north-west America with special reference to Douglas fir (*Pseudotsuga taxifolia* Brit.). Forestry 23: 69-77. 1950. 99.8 F767

20704 DEMENT'EV, P. I. Larch seed plots. (In Russian.) Lesn. Khoz. 3(6):83-84. June 1950. 99.8 L5622

20705 ELIASON, E. J. How to do it (12): raising hardwoods from seed. N. Y. State Conserv. 5(3):24. Dec.1950/Jan.1951. 279.8 N48

20706 HOLT, L. The treeP planting machine. Pulp & Paper Mag. Canada 51(13):124,126. Dec.1950. 302.8 P96

20707 INDONESIA BOSBOUWPROEFSTATION. Tabellarisch overzicht van de beste kiem-, bewaar- en verzendingswijze van zaad van een aantal boomsoorten en groenbesters. [Tabular survey of the best germination storage and transportation method for seeds of a number of trees and cover crops.] Indonesia. Bosbouwproefsta. Rap. 42,23 p. Oct.1950. 99.9 Ea72R

20708 KIERULF, T. Sorting of spruce plants. (In Norwegian.) Tidsskr. f. Skogbruk, 58:52-54. Mar.1950. 99.8 T432

In Denmark.

20709 KOPPENFELS, VON. Forstpflanzenpreise. Forst u. Holz 5:306-307. Oct.1,1950. 99.8 F7724

20710 KOSHCHEEV, A. L. Regeneration on clearings in the lichenous pine groves. (In Russian.) Lesn. Khoz. 3(6):26-29. June 1950. 99.8 L5622

20711 LÜBICH, F. P., and DRAGUNOV, E. D. Quercus sown by the group method in the Volga downstream area. (In Russian.) Les i Step' 2(8):74-77. Aug. 1950. 99.8 L565

20712 MCCULLEY, R. D. Wet-weather logging hazzard to loblolly pine seed trees. Forest Farmer 10(2): 13. Nov.1950. 99.8 F7692

20713 MÉTRO, A. Possibilités d'emploi des Eucalyptus dans les reboisements en France. École Natl. des Eaux et Forêts et Sta. de Rech. et Expér. Ann. 12:271-320. Ref. 1950. 99.9 F845

20714 MOLCHADSKIĭ, S. R. Sunflower as cover crop in group sowing of tree belts. (In Russian.) Les i Step' 2(8):86-87. Aug.1950. 99.8 L565

20715 NYHOLM. State forest nurseries in U. S. A. (In Danish.) Hedeselsk. Tidsskr. 71:277-284. Sept.30, 1950. 11 H35

20716 NYHOLM. Tree seed; experiences from a trip in the U. S. A. (In Danish.) Hedeselsk. Tidsskr. 71:293-304,311-318. Oct.15-Nov.15,1950. 11 H35

Viability.

20717 ØGLAEND, I. Preservation of forest nursery soils. (In Norwegian.) Tidsskr. f. Skogbruk, 58:58-59. Mar.1950. 99.8 T432

20718 PANOVA, A. Fructification of our coniferous trees. (In Croatian.) Šumarski List 74:346-359. Sept./Oct.1950. 99.8 Su6

20719 PETROV, G. I. Growing balsam poplar [*Populus balsamifera*] from seeds. (In Russian.) Lesn. Khoz. 3(6):85. June 1950. 99.8 L5622

20720 PUDAKOV, G. I. Emergence and development of oak sprouts in connection with change in plantation structure. (In Russian.) Lesn. Khoz. 3(6):65-69. June 1950. 99.8 L5622

20721 RUBANOV, B. V. Growing *Betula* without shading it with screens. (In Russian.) Les i Step' 2(8): 34-37. Aug.1950. 99.8 L565

20722 SHIMANUK, A. P. Natural reproduction in the larch-pine groves. (In Russian.) Lesn. Khoz. 3(6):30-33. June 1950. 99.8 L5622

20723 SOLJANK, I. Planting and sowing of forest seeds in the nurseries and on the ground. (In Croatian.) Šumarski List 74:341-346. Ref. Sept./Oct.1950. 99.8 Su6



20724 SOOM, E. Verbesserungen am Baumvelo. Schweiz. Z. f. Forstw. 101:590-591. Oct./Nov.1950. 99.8 J82

Tree climbing equipment for seed collection.

20725 STEINLIN, H. Über ein Beispiel der Standortstypenbildung als Grundlage für die aufforstungstechnik. Schweiz. Z. f. Forstw. 100:361-366. July/Aug.1949. 99.8 J82

20726 TRENK, F. B., and BRENER, W. H. How to succeed with forest plantations; a planting handbook. Wis. Agr. Col. Ext. C. 381,23 p. Aug.1950. 275.29 W75C

20727 TRIANA, J. V. Algunos metodos de propagacion y medidas de crecimiento en las especies Guadua angustifolia y Bambusa vulgaris. Cent. Nac. de Invest. de Cafe. Bibliot. B. Inform. 11:26-31. Sept.1950. 68.29 C332

20728 U. S. FOREST SERV. A list of the forest tree nurseries of the United States. U. S. Forest Serv. Tree Planters' Note 1,21 p. Nov.1950. 1.962 C5T71

#### Forest Protection and Damage

20729 GERLINGS, J. H. J. Losses of our timber stands, mostly inflicted during the war years. (In Dutch.) Nederland. Boschbouw Tijdschr. 22:353-357. (To be cont.) Dec.1950. 99.8 N28

20730 HARTIGAN, D. T. What's wrong with that tree? N. S. Wales. Forestry Comm. Div. Wood Technol. Tech. Notes 4(10/12):11-12. Aug.1950. 99.9 N472T

20731 MEYER and TÜRCKE. Über die Wirkung teerartiger schälschuttmittel auf pflanzen. Allg. Forstz. 5:504-505. Nov.22,1950. 99.8 AL52

20732 NAGEL, J. L. Influences des éléments météorologiques sur l'accroissement des forêts. II. Schweiz. Z. f. Forstw. 101:512-530. Oct./Nov.1950. 99.8 J82

Drought.

20733 WEDDING. Rotwild-schälschäden in laub- und nadelholzbeständen. Forst u. Holz 5:286-287. Sept.15, 1950. 99.8 F7724

#### Fire

20734 BURGTORF, C. Empty chairs in Forest Service homes. Fire Control Notes 12:44-46. Jan.1951. 1 F766Fi

Hazards in forest fire control.

20735 BURT, J. E., JR. Getting a new look in fire training. Fire Control Notes 12:30-31. Jan.1951. 1 F766Fi

20736 COLLINS, R. F. A simple method of designating map locations. Fire Control Notes 12:32-33. Jan. 1951. 1 F766Fi

An aid in locating forest fires.

20737 DAVIS, W. S. Nebraska firebreaks. Fire Control Notes 12:40-43. Jan.1951. 1 F766Fi

20738 DOLL, G. B. Effective suppression by a small horse-mounted fire crew. Fire Control Notes 12:10-11. Jan.1951. 1 F766Fi

20739 EVERTS, A. B. Railroad firefog. Fire Control Notes 12:34-37. Jan.1951. 1 F766Fi

20740 GRABHERR, W. Die waldbbrandfrage in den früheren Haller salinenwäldern im Unterengadin. Schweiz. Z. f. Forstw. 100:366-374. July/Aug.1949. 99.8 J82

20741 HEDGES, H. E. A new belt-type, first-aid kit. Fire Control Notes 12:22-23. Jan.1951. 1 F766Fi

For forest fire line use.

20742 KODACHIGOV. More extensive utilization by forest enterprises of chemical means for extinguishing forest fires. (In Russian.) Lesn. Khoz. 3(6):75-76. June 1950. 99.8 L5622

20743 LEONARD, R. B. Salmon hose roller. Fire Control Notes 12:20-21. Jan.1951. 1 F766Fi

20744 LETKOVSKI, A. I. Forest management measures in forest fire protection. (In Russian.) Lesn. Khoz. 3(6):54-56. June 1950. 99.8 L5622

20745 LINDENMUTH, A. W., JR., and KEETCH, J. J. Handy anemometer mast. Fire Control Notes 12:38-39. Jan.1951. 1 F766Fi

20746 LINDENMUTH, A. W., JR. 1949 fires and trends of fire occurrence in the Northeast. Fire Control Notes 12:1-5. Jan.1951. 1 F766Fi

20747 MATTSSON, J. W. Portable, collapsible fire camp table. Fire Control Notes 12:27-29. Jan.1951. 1 F766Fi

20748 NUTTING, A. D., and WILKINS, A. H. Maine's new forest fire protection program. Fire Control Notes 12:14-19. Jan.1951. 1 F766Fi

20749 STEWART, G. I. Michigan tractor-tanker. Fire Control Notes 12:12-13. Jan.1951. 1 F766Fi

20750 WAGONER, E. R., and BEARD, L. J. Texas centralized radio dispatching system. Fire Control Notes 12:6-9. Jan.1951. 1 F766Fi

20751 WEATHERBY, H. Fire protection on your outfit. Brit. Columbia Lumberman 34(12):45-46. Dec.1950. 99.81 B77

20752 WILLIAMS, R. The Minnesota fire finder. Fire Control Notes 12:24-26. Jan.1951. 1 F766Fi

#### Forest Influences

20753 BURVILL, G. H. Windbreaks and shelterbelts in relation to soil erosion. West. Austral. Dept. Agr. J. (ser.2):27:180-184. June 1950. 23 W52J

20754 FRÖHLICH, O. Der Wald und sein Schutz. Nat. u. Nahr. 4(15/16):5-7. Aug.1950. 80 N218

Forest influences.

20755 FUCHS, H. Zur Wasserstandsfrage und Wasserpflanze. Forstl. Mitt. 3:147-148. (To be cont.) Oct.5, 1950. 99.8 F7725

20756 GIORDANO, G. Le reboisement et la protection du sol. World Forestry Cong. Proc. 3(1):21-29. 1949. 99.9 C76912A

English summary.

20757 GUINIER, P. Foresterie et protection de la nature; l'exemple de Fontainebleau. Rev. Forest. Franç. 1950:703-717. Ref. Dec.1950. 99.8 R329

20758 KIRWALD, E. Beziehungen zwischen forstwirtschaft und landeskultur im Harz. Allg. Forstz. 5:489-491. Nov.15,1950. 99.8 AL52

20759 KRAJSKI, W. Forest shelter belts as an element of managing natural resources. (In Polish.) Sylwan 94(1):33-57. Ref. 1950. 99.8 Sy52

English summary.

20760 KREUTZ, W. Windschutz durch anbau. Landwirt. Jahrb. f. Bayern 27(5/6):64-68. Sept./Oct.1950. 18 L24

20761 LASSEN, L., and FRANK, B. Forest management for more and better water. J. Forestry 48:833-836. Dec.1950. 99.8 F768

20762 ROIG, J. T. Montes protectores. Labor [Havana] 8:175. Nov.30,1950. 8 L11

20763 WENNBLOM, R. D. Want to change climates? Farm J. 75:44-45. Jan.1951. 6 F2212

Windbreaks.

#### Miscellaneous Forest Uses

20764 GUCK, D. G. Prayer trees of the Southwest. Amer. Forests 57:21,44-45. Jan.1951. 99.8 F762

20765 GREY, D. M. Grazing versus the growing of trees. Transkelan Ter. Agr. Dept. Umcebis Womlimi Nomfuyi 27:12-14. Feb.1950. 24 T684

Union of South Africa.

20766 HVOSLEF, O. The problem forest and pasture in England. (In Norwegian.) Tidsskr. f. Skogbruk 58:47-52. Mar.1950. 99.8 T432

20767 MILLER, R. B. Adirondack pack basket. Amer. Forests 57:26,42-43. Jan.1951. 99.8 F762

20768 ROBERT, J. Quelques problèmes posés par la séparation du pâturage et de la forêt. Schweiz. Z. f. Forstw. 100:296-301. June 1949. 99.8 J82

20769 TEPSTAD, J. Pasture and silviculture. (In Norwegian.) Skogbrukeren 25:284-285. Nov.15,1950. 99.8 Sk54

20770 TORRES JUAN, J. Montes y ganados. Balearik Isl. Diputación Prov. B. de Agr. 73:6. Oct.1950. 15 B19

Forest management in relation to grazing.

20771 U. S. FOREST SERV. National-forest vacations. Washington, 1950. 60 p. 1 F769Naf

20772 U. S. FOREST SERV. SOUTHWESTERN REGION. Winter sports in your national forests; Arizona and New Mexico. Albuquerque?1950. 27 p. 1.9621 R3W73

#### FOREST INDUSTRIES

20773 BARRACLOUGH, K. E. Forest market report, 1951. N. H. Agr. Col. Ext. B. 96,26 p. Nov.1950. 275.29 N45

Forest market outlook.

20774 BISHOP, S. A. The redwood situation. Calif. Lumber Merchant 29(11):56,110. Dec.1,1950. 99.81 C12



20775 BRUNERIE, G. L'étude du travail et l'organisation des industries. Rev. du Bois 5(12):22-25. Dec. 1950. 99.82 R32

20776 COLGAN, R. A., JR. A look at lumber. Calif. Lumber Merchant 29(11):36,110. Dec.1,1950. 99.81 C12

20777 COTTA, A. The wood supply. (In Italian.) Indus. del Legno 1950:21-22. July/Aug.1950. 99.82 In2

20778 GAUBE, M. J. Die hauptsorgen des steirischen holzhandels. Internatl. Holzmarkt 41(18):32. Sept.9,1950. 99.81 In82

20779 HANRAHAN, F. J. Lumber research to meet modern competition. South. Lumberman 181(2273):239-240. Dec.15,1950. 99.81 So82

20780 HEATHERLY, L. J. Low-grade hardwoods find a market. South. Lumberman 181(2273):246,256. Dec.15,1950. 99.81 So82

20781 HÖLZEL, A. Aufbau des österreichischen buchenholzexportes. Internatl. Holzmarkt 41(18):47-49. Sept.9,1950. 99.81 In82

20782 JOHNSON, R. P. A. Grading problems that challenge the lumber industry. Wood Prod. 55(12):14-16. Dec.1950. 99.82 W856

20783 JORDAN, J. H. Hardwoods; de-control and its problems. T. D. A. Q. Rev. 2(11):13-14. Oct.1950. 99.9 T48T

Great Britain.

20784 LAMB, G. N. The mahogany horizon. Calif. Lumber Merchant 29(12):34,36. Dec.15,1950. 99.81 C12

Also in Miss. Val. Lumberman 82(19):60,88. Jan.12, 1951. 99.81 M69

20785 LEONARD, R. O. Western pine production, shipment records broken. Calif. Lumber Merchant 29(11):44,112. Dec.1,1950. 99.81 C12

20786 MÖLLER, H. Fixing prices on forest products and lumber in Norway. (In Swedish.) Svensk Trävaru-Tidn. Svensk Pappersmassetidn. 1950:1057-1058. Oct.15,1950. 99.81 Sv22

20787 NORTHWESTERN LUMBERMENS ASSOCIATION. 1950 Northwestern blue book. Minneapolis,1950. 148 p. 225 N8123

20788 PRESTON, R. J. Forest land is a sound investment. Tarheel Banker 29(7):11,23-24. Jan.1951. 284.8 T17

The forest industries in North Carolina.

20789 SCRIM, W. G. Philippine mahogany. Calif. Lumber Merchant 29(11):78. Dec.1,1950. 99.81 C12

20790 SIMPSON, H. V. California greatest lumber user. Calif. Lumber Merchant 29(11):48,112. Dec.1, 1950. 99.81 C12

20791 SIMPSON, H. V. Douglas fir producers plan for 1951. South. Lumberman 181(2273):174. Dec.15,1950. 99.81 So82

Similar title in Gulf Coast Lumberman 38(19):26,32. Jan.1,1951. 99.81 G95; Miss. Val. Lumberman 82(19):20-21. Jan.12,1951. 99.81 M69

20792 SMITH, J. T. The Scottish home timber industry. Arbor 1:70-71. Mar.1950. 99.8 Ar17

20793 STOREY, T. A. United Kingdom softwood decontrol. Brit. Columbia Lumberman 34(12):71-72. Dec.1950. 99.81 B77

20794 SWANKE, A. E. Forty years of northern lumber business. South. Lumberman 181(2273):177-178. Dec.15,1950. 99.81 So82

Wisconsin.

20795 WALLACE, W. D. Philippine lumber production progressed in fifty years. Foreign Trade 8:1079-1081. Dec.16,1950. 286.8 C162

20796 WALTHER, S. Standardisation in wood industry. (In Polish.) Sylwan 94(2):76-80. 1950. 99.8 Sy52

English summary.

20797 WILLIFORD, J. S. Transportation for hardwoods-1951. South. Lumberman 181(2273):241-242. Dec.15,1950. 99.81 So82

#### Lumbering

20798 HEBEL, I. B. Live oak barons: a romantic bit of lumber history. South. Lumber J. 54(12):48,50,52,54, 74. Dec.1950. 99.81 So8

20799 MÄCHER, F. Aufrüstung der holzindustrie; schonung der wälder. Internatl. Holzmarkt 41(18):25-26. Sept.9,1950. 99.81 In82

20900 OKSA, E. Standards proposed by the Work Efficiency Association. (In Finnish.) Teho 1950(7/8):23-28. 20 T98

English summary, p. 50.

Standards for windows, doors and stove-pipes in lumber camps.

20901 SCHINDLER, E. R. Greater efficiency is the trend. South. Lumberman 181(2273):221-225. Dec.15, 1950. 99.81 So82

Southern pine.

#### Lumbering Equipment

20902 ANDERSEN, S. The motor saws in forestry. (In Norwegian.) Tidsskr. f. Skogbruk 58:55-58. Mar. 1950. 99.8 T432

20903 BENJIC, R. The use of skidders in logging. (In Croatian.) Šumarski List 74:388-400. Sept./Oct.1950. 99.8 Su6

English summary.

20904 BIRKENFELD. Leichtmotorsäge - einmann-rotte? Forstl. Mitt. 3:149-150. Oct.5,1950. 99.8 F7725

20905 GRUPP, G. W. Diesels in the lumber industry. Diesel Power & Diesel Transportation 29:36-39. Jan. 1951. 281.8 D562

20906 GUTHRIE, J. G., and LAUDERBURN, D. E. A home-made log jack. South. Lumberman 181(2273):220. Dec.15,1950. 99.81 So82

Also in Forest Farmer 10(2):14. Nov.1950. 99.8 F7692

20907 HIGGINS, F. H. Logging with Diesels. Diesel Prog. 17:29-32. Jan.1951. 291.8 D56

20908 HUTCHISON, A. J. Log-barking methods. N. S. Wales. Forestry Comm. Div. Wood Technol. Tech. Notes 4(10/12):13-16. Aug.1950. 99.9 N472T

20909 IAKADIN, A. I. Complex mechanization for unloading barges [of wood]. (In Russian.) Lesn. Promysh. 10(7):16-18. July 1950. 99.82 L56

20910 KOMAROV, I. M. TL-1 one-drum winch for loading logs. (In Russian.) Lesn. Promysh. 10(7):10-11. July 1950. 99.82 L56

20911 KOROTONOSHO, N. I., and SHEBALIN, I. A. Steam-driven truck and steam power plant for the lumbering industry. (In Russian.) Lesn. Promysh. 10(7): 11-15. July 1950. 99.82 L56

20912 LAIKO, M. V. Machines of high quality for the logging sites! (In Russian.) Lesn. Promysh. 10(7):4-5. July 1950. 99.82 L56

20913 LEPENTSOV, P. A., and ABOL', I. P. New method of [log] hauling with three-drum winches. (In Russian.) Lesn. Promysh. 10(7):7-8. July 1950. 99.82 L56

20914 MESHKALLO, V. M. Attachment for rapid setting up of extensions. (In Russian.) Lesn. Promysh. 10(6):15. June 1950. 99.82 L56

In logging equipment assemblies.

20915 MILLER, J. D. Bulldozers and trucks modernize maritime logging. Canada Lumberman 71:35-36,66. Jan.1951. 99.81 C16

20916 MUCKLEY, H. R., and DILLER, O. D. Increase tractor efficiency with logging sulky. Ohio Farm & Home Res. [Ohio Sta.] 35:70-71. Sept./Oct.1950. 100 Oh3S

20917 PESTAL, E. Entwicklung und aufgabe der seilkrantechnik in den alpen. Österr. Gesell. f. Holzforsch. Schreibe. 2:42-50. 1950. 99.9 Os72S

20918 PESTAL, E. Die messung der tragseilspannung nach dem "seil-schwingungsverfahren." Österr. Gesell. f. Holzforsch. Mitt. 2:93-95. In Internatl. Holzmarkt 41(17). Aug.19,1950. 99.81 In82

20919 PROKOF'EV, B. M. Preparation of river bank yards for mechanized rolling of logs. (In Russian.) Lesn. Promysh. 10(6):8-10. June 1950. 99.82 L56

20920 PUTKISTO, K. Review on the use of machinery in forestry. (In Finnish.) Paperi ja Puu. B 32:342-346. Nov.15,1950. 302.8 P1991

English summary.

In Finland.

20921 SINGER, A. Der eulierzahn, eine vergessene zahnform? Forstarchiv 21:99-102. Sept.30,1950. 99.8 F7723

20922 UBISCH, J. VON. The technical standard of logging and transport equipment. (In Norwegian.) Skogbrukeren 25:260-261. Oct.15,1950. 99.8 Sk54

20923 UVAROV, N. V. Gasoline motor saws-in logging. (In Russian.) Lesn. Promysh. 10(7):28. July 1950. 99.82 L56

#### Logging

20924 EKLUND, R. On the economical use of tugs inland waterways. (In Finnish.) Metsätaloudellinen Aikakauslehti 1950:330-332. Oct.1950. 99.9 F49

English summary.

Log floating.



20825 GUGALO, I. A., and BEREZIN, P. G. Transportation of whole [felled] trees by trucks. (In Russian.) Lesn. Promysh. 10(7):9-10. July 1950. 99.82 L56

20826 HORNCastle, D. C. Hauling four-foot wood with self-loading sloop. Pulp & Paper Mag. Canada 51 (13):128,130-131. Dec.1950. 302.8 P96

20827 IL'IN, V. A. Organization of work at the lower yard during transportation of whole [felled] trees. (In Russian.) Lesn. Promysh. 10(6):5-8. June 1950. 99.82 L56

20828 KANTOLA, M. Rationalisation of log loading on trucks. (In Finnish.) Metsätaloudellinen Aikakauslehti 1950:323-328. Oct.1950. 99.9 F49  
English summary.

20829 KISHCHENKO, T. I. Overhead hauling of logs. (In Russian.) Lesn. Promysh. 10(7):5-7. July 1950. 99.82 L56

20830 LEHMUSLUOTO, P. Accidents caused by hand tools in cutting and floating logs. (In Finnish.) Teho 1950(10):9-15. 20 T98  
English summary, p. 66.  
Finland.

20831 LOVRIĆ, N. The time in the working process. (In Croatian.) Šumarski List 74:369-383. Sept./Oct.1950. 99.8 Su6

English summary.

20832 RAKHMANOV, S. I., and KOCHKIN, P. N. Technology of log cutting and sorting at the lower yards in transportation of whole [felled] trees. (In Russian.) Lesn. Promysh. 10(6):10-12. June 1950. 99.82 L56

20833 SOOM, E. Rückaufwand und wegabstand. Schweiz. Z. f. Forstw. 101:546-560. Oct./Nov.1950. 99.8 J82

Log transportation.

20834 STAMM, E. P. Logging road construction. Timberman 52(2):64-65,68,70,72,74,76,78. Dec.1950. 99.81 T484

20835 STRASHINSKIĭ, B. A. Organization of work in the construction of roads for log transportation. (In Russian.) Lesn. Promysh. 10(6):12-15. June 1950. 99.82 L56

20836 VOLODENKOV, F. I., and KOZHANOV, D. I. Loading loose logs on to barges. (In Russian.) Lesn. Promysh. 10(6):16-17. June 1950. 99.82 L56

20837 ZAITSEV, A. I., and IL'IN, B. A. Hauling whole [felled] trees with winches at the logging sites of Lenles. (In Russian.) Lesn. Promysh. 10(6):4-5. June 1950. 99.82 L56

#### Sawmills

20838 BETHEL, J. S., BAREFOOT, A. C., and STRETCHER, D. A. Quality control; a study in small mill operations. South. Lumber J. 54(12):28,30,64,66,68. Dec.1950. 99.81 So8

20839 BURKERT, E. Einiges über die projektierung von sägewerken. Internatl. Holzmarkt 41(18):33-37. Sept.9,1950. 99.81 In82

20840 CARPENTER, R. D. It's really portable, the Anders-Crosby mobile sawmill. South. Lumberman 181(2273):247-250. Dec.15,1950. 99.81 So82

20841 GOTTLIEB, F. Das neue sägewerk von Fürst zu Schwarzenberg in Unzmarkt (Stmk.). Internatl. Holzmarkt 41(18):26-32. Sept.9,1950. 99.81 In82

20842 GOTTSTEIN, J. W., and ROBERTS, H. D. The Christensen and Crozier log edger sawmill. Austral. Council Sci. & Indus. Res. Forest Prod. News Let. 181:1-3. Feb./Mar.1950. 99.9 Au722F

20843 HEISKANEN, V. New method of sorting pine logs in sawmilling. (In Finnish.) Metsätaloudellinen Aikakauslehti 1950:286-288. Sept.1950. 99.9 F49  
English summary.

20844 HYLER, J. E. Log jacks or haul-up conveyors. South. Lumberman 181(2273):284. Dec.15,1950. 99.81 So82

20845 KASTMARK, C. F. Actual problems in the Swedish sawmilling industry. (In Swedish.) Papperi ja Puu. B 32:333-341. Nov.15,1950. 302.8 P1991  
English summary.

20846 LIPKA, W. Kreissägeblätter und rückschlag-sicherheit. Holz 4:168-169. Sept.1950. 99.82 H743

20847 MCCLURE, J. W. Training small mill operators. South. Lumberman 181(2273):202,210. Dec.15,1950. 99.81 So82

20848 RAZOUS, P. Les rendements quantitatifs et qualitatifs en sciages. Bois et Scieries 56:1057,1059. (Concl.) Nov.16,1950. 99.81 B632

20849 SCHMIDT, W. Der meister in der sägeindustrie. Norddeut. Holzwirt. 4(42):6. Oct.19,1950. 99.82 N75

20850 TENNESSEE VALLEY AUTHORITY. DIV. OF FORESTRY RELATIONS. Forestry data for the Tennessee Valley counties. VII. Sawmills and lumber production - 1947, prepared by W. H. Ogden. U. S. Tenn. Val. Authority. Div. Forestry Relat. Forestry B. 11,26 p. June 1950. 173.2 T25Fo

20851 TRAITEL'MAN, G. I. A. A rotary loader of wood waste [sawdust, etc.]. (In Russian.) Lesn. Promysh. 10(7):24-25. July 1950. 99.82 L56

20852 TURNBULL, R. F. Some American sawmilling practices significant for Australians. Austral. Timber J. 16:503,505,507,509,511,513-514,547-548. Aug.1950. 99.81 Au7

20853 VUJIČIĆ, L. Coefficient of utilisation of the wood in the sawmill. (In Serbian.) Šumarski List 74:360-369. Sept./Oct.1950. 99.8 Su6

20854 ZELLHAN, H. Gute leistung alter gatter durch verbessern der vorschubsteuerung. Norddeut. Holzwirt. 4(38):3. Sept.21,1950. 99.82 N75

#### Processing and Woodworking

20855 DRUMMOND, S. Notes on boring. 1-2. Timber News 58:458-459,500,503. Dec.1950. 99.81 T482

20856 EBERT, F. A. Massenfertigung und austraschbau der holzverarbeitenden industrie. Norddeut. Holzwirt. 4(38):8. Sept.21,1950. 99.82 N75

20857 HYLER, J. E. Use of dovetail, lapped and slot joints in end-to-end wood joinery. Natl. Hardwood Mag. 24(11):129-131,198. Dec.1950. 99.81 N212

20858 HYLER, J. E. Use of miters and bevel joining in end-to-end wood joinery. Natl. Hardwood Mag. 24(12):31-34. Jan.1951. 99.81 N212

20859 HYLER, J. E. Woodworking knife and cutter application. X. South. Lumberman 181(2273):280,282. Dec.15,1950. 99.81 So82

20860 PETERSON, R. W. The application of dielectric heating in the woodworking industries. Brit. Columbia Lumberman 34(12):38-40,92,94,96,98. Dec.1950. 99.81 B77

#### Seasoning, Conditioning and Finishing

20861 CAMPREDON, J. L'ignifugation des bois; ne laissez pas dire que le bois se défend plus mal que le fer contre le feu. Bois 67(19):1-2. Oct.25/30,1950. 99.82 B632

20862 CARTER, R. M. Drying and conditioning lumber. South. Lumberman 181(2273):286. Dec.15,1950. 99.81 So82

20863 CREIGHTON, J. W., and DEXTER, S. T. Drying lumber by desiccating agents. Mich. Agr. Expt. Sta. Q. B. 33:114-123. Nov.1950. 100 M58S

20864 DÉRIBÈRE, M. Applications du séchage par rayonnement infrarouge dans l'industrie du bois. Rev. du Bois 5(11):19-23. Nov.1950. 99.82 R32

20865 DEVINE, J. Parana pine (Araucaria angustifolia) is not too difficult to dry. Natl. Hardwood Mag. 24(11):186,198. Dec.1950. 99.81 N212

20866 LEHRBAS, M. M. Direct gas-fired kilns in the South. Timber Canada 11(4):30-34,78. Dec.1950. 99.81 T487

20867 MCMILLEN, J. M. Kiln-drying of hickory handle stock. South. Lumberman 181(2273):292,294,296,298,300,302,304. Dec.15,1950. 99.81 So82

20868 MILLET, R. S., and GLENNIE, A. G. Modern dry-kiln equipment reduces seasoning problems. Canada Lumberman 71:40,46,53-54,84-85. Jan.1951. 99.81 C16

20869 MOORE, R. R. Air seasoning of Utah's forest products. Utah. State Agr. Col. Ext. B. 208,22 p. Ref. June 1950. 275.29 Ut1

20870 MOZINA, I. Du séchage des bois. (In Croatian.) Gozdarski Vest. 8:161-182. 1950. 99.8 G74  
French summary.

20871 OISTRACH STABENAU, G. La desecación artificial de la madera en España. Rev. Indus. y Fabrill 5:539-543. Sept.1950. 297.8 R322

20872 SALOMON, R. Séchage des bois & hygrométrie. Bois Natl. 21:471-472. Sept.25,1950. 99.81 B63

20873 TIEMANN, H. D. The kiln-drying of lumber. 24. South. Lumberman 181(2273):276,278. Dec.15,1950. 99.81 So82



## Wood Preservation and Damage

- 20874 AMERICAN WOOD-PRESERVERS' ASSOCIATION. Proceedings, forty-sixth annual meeting, Rice Hotel, Houston, Texas, April 25, 26, 27, 1950. Washington, 1950. 586 p. 300.9 Am3
- 20875 BLEW, J. O., and OLSON, W. Z. The durability of birch plywood treated with wood preservatives and fire-retarding chemicals. Amer. Wood-Preserv. Assoc. Proc. 46:323-338. 1950. 300.9 Am3
- 20876 BOND, W. R. Preservation of wood highway structures. In Northwest Conference on Road Building. Proceedings 1950, p.87-91. Seattle, Engin. Expt. Sta., U. Washington, 1950. 288.9 N81
- 20877 BURTON, W. J. Treated wood on the Missouri Pacific Railroad. Amer. Wood-Preserv. Assoc. Proc. 46:252-260. 1950. 300.9 Am3  
Includes discussion.
- 20878 CZEPEK, E. Künstliche holztrocknung in der praxis. Holz 4:169-173. Sept.1950. 99.82 H743
- 20879 DAVIS, P. C. A table of differences for tank reading temperature conversions. Amer. Wood-Preserv. Assoc. Proc. 46:207-208. 1950. 300.9 Am3
- 20880 DUNCAN, C. G., and RICHARDS, C. A. Evaluating wood preservatives by soil-block tests: 1. Effect of the carrier on pentachlorophenol solutions. 2. Comparison of a coal tar creosote, a petroleum containing pentachlorophenol or copper naphthenate and mixtures of them. Amer. Wood-Preserv. Assoc. Proc. 46:131-151. 1950. 300.9 Am3  
Includes discussion.
- 20881 FOLWEILER, A. D. The wood preserving industry and its principal raw material, timber. Amer. Wood-Preserv. Assoc. Proc. 46:307-312. 1950. 300.9 Am3  
Includes discussion.
- 20882 FRAMPTON, D. B. Wood utilization at McArthur. Amer. Wood-Preserv. Assoc. Proc. 46:261-266. 1950. 300.9 Am3  
Chiefly preservation.
- 20883 HENDERSON, J. Bogalusa builds bridge of creosoted pine and fir. Wood Preserv. News 28:134,141-142. Nov.1950. 300.8 W853
- 20884 HOF, T. Laboratory tests of wood preservatives. (In Dutch.) T.N.O.-Nieuws 5:288-293. Ref. Sept. 1950. 475 T11
- 20885 HUDSON, M. S. Drying lumber by the vapor process. Amer. Wood-Preserv. Assoc. Proc. 46:209-243. Ref. 1950. 300.9 Am3  
Includes discussion.  
As preliminary to preservative treatment.
- 20886 INOUE, Y., NAKAMURA, T., and NISHIMOTO, K. Studies on the wood preservatives. I-II. (In Japanese.) Wood Res. 1950(4):19-44. Feb.1950. 99.82 W8524  
English summary.
- I, The sterilizing power of o-cresol sulfur resin against wood destroying fungi; II, Dry distillation of pine resin in the case of using activated clay as a catalyser.
- 20887 JIRU, P., and ILLE, R. Conservation des bois. World Forestry Cong. Proc. 3(1):197-207. 1949. 99.9 C76912A  
English summary.
- 20888 LINDEN, P. J. VAN DER. De invloed van het vochtgehalte en de diffusie bij empregneren van nat hout. Significance of moisture content and diffusion for the impregnation of green wood. Indonesia. Bosbouwproefsta. Rap. 39,16 p. Sept.1950. 99.9 Ea72R  
English summary.
- 20889 LINDEN, P. J. VAN DER. Oriënterend onderzoek over verdamping en uitloging van houtconserveringsmiddelen. Tentative research on evaporation and leaching of wood preservatives. Indonesia. Bosbouwproefsta. Rap. 40,10 p. Sept.1950. 99.9 Ea72R  
English summary.
- 20890 MCKENZIE, H. J. Use of pressure treated ties, also creosoted timber for open deck packed chord trestles. Amer. Wood-Preserv. Assoc. Proc. 46:244-251. 1950. 300.9 Am3  
Includes discussion.
- 20891 MACLEAN, J. D. Factors that have an important bearing on the preservative treatment of round timbers. Amer. Wood-Preserv. Assoc. Proc. 46:162-171. 1950. 300.9 Am3  
Includes discussion.
- 20892 MANN, R. H. The fire resistance and slow burning characteristics of pressure creosoted piles and timbers in substructures of piers and wharves. Amer. Wood-Preserv. Assoc. Proc. 46:339-348. 1950. 300.9 Am3  
Includes discussion.

- 20893 MAYFIELD, P. D. The analysis of creosote-petroleum solutions used in wood preserving. Amer. Wood-Preserv. Assoc. Proc. 46:62-67. 1950. 300.9 Am3
- 20894 SERRA HORTA, M. Conservación de postes de madera para líneas eléctricas. Rev. Indus. y Fabrill 5: 599-604. (Cont.) Oct.1950. 297.8 R322
- 20895 SMITHSON, R. T., and HICKSON, H. E. The reconstitution of the British Wood Preserving Association. Amer. Wood-Preserv. Assoc. Proc. 46:158-161. 1950. 300.9 Am3
- 20896 STACEY, W. A. 10,000 creosoted foundation piles for Corpus Christi cement plant. Wood Preserv. News 28:131-133. Nov.1950. 300.8 W853
- 20897 SUOLAHTI, O. Methods for preventing timber decay. (In Finnish.) Teho 1950(6):16-18. 20 T98  
English summary, p. 50.
- 20898 VERRALL, A. F. Decay of wood siding is preventable. South. Lumberman 182(2274):55-57. Jan.1, 1951. 99.81 So82
- 20899 WALTERS, C. S. The Illinois coal fields as a potential market for treated wood. Amer. Wood-Preserv. Assoc. Proc. 46:313-322. 1950. 300.9 Am3  
Includes discussion.

## FOREST PRODUCTS

- 20900 DESCH, H. E. The urgency of applying our new knowledge of wood. I-II. Timber News 58:444-445, 460,493-495. Nov.-Dec.1950. 99.81 T482
- 20901 NICHOLS, D. E. The use of trees for forest products. Forest Farmer 10(2):4,10. Nov.1950. 99.8 F7692
- 20902 OUCHTERLONY, K. Special assortment versus sawn timber. (In Swedish.) Skogsägaren 26:181-182. Sept.1950. 99.8 Sk55  
Quality.
- 20903 PLOW, R. Lumbermen need a new name for research. Wood [Chicago] 6:20,40. Jan.1951. 99.82 W859
- 20904 SCOTT, M. H. The utilization of South African grown Eucalyptus saligna. Union So. Africa Dept. Forestry. B. 34,15 p. 1950. 99.9 So84
- 20905 STEARNS, J. L. Modern wood research. Mil. Engin. 43(291):19-21. Jan./Feb.1951. 290.9 Un3

## Lumber and Rough Products

- 20906 CHUKREEV, A. G. To improve the utilization of crosstie raw material. (In Russian.) Lesn. Promysh. 10(7):22-23. July 1950. 99.82 L56
- 20907 CLADY, L. M. Northern hardwood flooring has made marked progress over years. Miss. Val. Lumberman 82(19):19. Jan.12,1951. 99.81 M69
- 20908 CRAFT, M. Hardwood flooring industry enters new year with flying colors; have big year. Miss. Val. Lumberman 82(19):44,50,80. Jan.12,1951. 99.81 M69
- 20909 JONES, E. W. Ties. Forest Farmer 10(2):10-11. Nov.1950. 99.8 F7692
- 20910 KENNEDY, J. D. For fence posts: red pine. N. Y. State Conserv. 5(3):25. Dec.1950/Jan.1951. 279.8 N48
- 20911 WOODBRIDGE, W. W. Red cedar shingle outlook for 1951. Calif. Lumber Merchant 29(11):92. Dec.1, 1950. 99.81 C12  
Similar title in Miss. Val. Lumberman 82(19):21. Jan. 12,1951. 99.81 M69

## Building Construction

- 20912 HARTL, F. Ingenieurholzbau in Österreich. Österr. Gesell. f. Holzforsch. Schrreihe. 2:75-93. 1950. 99.9 Os72S
- 20913 MARKWARDT, L. J., and STRENCE, F. A. Prefabricated wood house construction in the United States. World Forestry Cong. Proc. 3(1):163-176. 1949. 99.9 C76912A
- 20914 MOROZOV, N. A. Assembly line production of wall parts for hewn [log] and frame houses. (In Russian.) Lesn. Promysh. 10(7):20-22. July 1950. 99.82 L56

## Veneers, Plywood and Adhesives

- 20915 BARNES, J. A. Controls outlined for hot pressing. South. Lumberman 181(2273):175. Dec.15,1950. 99.81 So82
- 20916 BELLOTTI, L., and RIGATELLI, G. F. Principle and function of radio frequency heating. (In Italian.) Indus. del Legno 2(9):27-29. Sept.1950. 99.82 In2



20917 DIXON, H. F. Wood adhesives. (Condensed.) Canad. Chem. & Process Indus. 34:991-995. Dec.1950. 381 C16

20918 HAMILTON, J. F. The relation of moisture content to gluing. Natl. Hardwood Mag. 24(11):210,214-217,221. Dec.1950. 99.81 N212

20919 HYLER, J. E. Proper coating roll size important in spreading. Veneers & Plywood 44(12):12-15. Dec.1950. 99.82 V55

20920 JONES, K. W. Making plywood amid Nigerian swamps. New Commonwealth 21(2):130-131. Nov.1950. 280.8 C88

Mahogany.

20921 KNIGHT, R. A. G. Requirements and properties of adhesives for wood. Gt. Brit. Dept. Sci. & Indus. Res. Forest Prod. Res. B. 20,26 p. 1950. 99.9 G796B

20922 KÜHNE, H. Leim und Holz. Österr. Gesell. f. Holzforsch. Schreibe. 2:95-113. Ref. 1950. 99.9 Os72S

20923 MCCALLUM, W. H. The plywood story. Calif. Lumber Merchant 29(11):66,68. Dec.1,1950. 99.81 C12

20924 MAHEU, C. Usine de contreplaqué sur la cote pacifique. III. Rev. du Bois 5(11):24-25. (Concl.) Nov. 1950. 99.82 R32

20925 MILLER, D. G. The manufacture of lumber-core plywood. II. Timber Canada 11(4):72,80,82,84,86-87. Dec.1950. 99.81 T487

20926 NOZU, R., GOTO, R., and KOZAI, Y. Studies on adhesion for woods. I-II. (In Japanese.) Wood Res. 1950(4):50-65. Feb.1950. 99.82 T8524

English summary.

20927 OSTERWALD, H. Herstellung und montage geleimter Holztragkonstruktionen. Österr. Gesell. f. Holzforsch. Schreibe. 2:135-152. 1950. 99.9 Os72S

20928 PERRY, T. D. The humble crossband; the right type, properly assembled, is fundamental in high quality plywood. Wood Prod. 55(12):29-33. Dec.1950. 99.82 W856

20929 PRESTON, S. B. How glue lines effect veneer laminates. Wood [Chicago] 6:28-29,32-33. Ref. Jan. 1951. 99.82 W859

20930 SAKS, E. V. Hot press technique like weaving of fine fabrics. Veneers & Plywood 44(12):22,24. Dec. 1950. 99.82 V55

20931 SMITH, W. R. Effect of wood structure and properties on gluing. South. Lumberman 181(2273):268. Dec.15,1950. 99.81 So82

20932 SORSA, B. Lämmön jakautumisesta radiokuumennetussa limasaumassa. The temperature distribution in a radio-frequency heated glue line. Finland. Valtion Tek. Tutkimuslaitos. Tiedoit 87,22 p. 1950. 330.9 F49T

English summary.

20933 STAUDACHER, E. Formgebung, beanspruchung und konstruktive durchbildung geleimter Holztragkonstruktionen. Österr. Gesell. f. Holzforsch. Schreibe. 2:114-134. 1950. 99.9 Os72S

20934 20TH ANNUAL plywood review. Timberman 52(3),224 p. Jan.1951. 99.81 T484

20935 WAKITA, M. An attempt to use blood of livestock as an adhesive for plywood. (In Japanese.) Wood Res. 1950(4):45-49. Feb.1950. 99.82 T8524

English summary.

20936 WINLUND, E. S. R. F. presses for end-gluing and edge-gluing. III. Wood [Chicago] 6:26-27. Jan.1951. 99.82 W859

### Furniture

20937 CONNELLY, H. H. Quality furniture finishing. III. Selecting varnishes and lacquers for top coat finishes. Natl. Hardwood Mag. 24(11):132,134-135. Dec.1950. 99.81 N212

20938 LETESSIER, A. Principes de construction des meubles et éléments d'architecture décorative en bois. III. Rev. du Bois 5(12):15-20. Dec.1950. 99.82 R32

20939 PARRISH, F. T. Furniture design from the standpoint of lumber utilization. I. Wood Prod. 55(12):17-18. Dec.1950. 99.82 W856

20940 SPITKOVSKII, Z. M. Incrustation of furniture. (In Russian.) Lesn. Promysh. 10(7):25. July 1950. 99.82 L56

### Containers

20941 WAGNER, J. B. The importance of a tight barrel stave. Barrel & Box & Packages 55(12):9-10. Dec.1950. 99.82 B27

### Pulp and Paper

20942 BARREDA, J. A. A proposito del aprovechamiento de cético en la industria nacional del papel. Vida Agr. [Lima] 27:753,755-756. Sept.1950. 9.8 V66

Cecropia in Peru.

20943 BERGMAN, S. I., and JOHNSON, M. M. The proportion of water-accessible and nonaccessible cellulose in wood pulps as affected by beating. Tappi 33:586-587. Dec.1950. 302.8 T162

20944 BISHOP, C. T., and ADAMS, G. A. Use of liquid ammonia in the fractionation of wheat straw holocellulose. Canad. J. Res. Sect. B, Chem. Sci. 28:753-761. Ref. Dec.1950. 470 C16B

20945 BRECHT, W. Amerikareise im rahmen des Marshallplanes. Papier 4:337-344. Sept.30,1950. 302.8 P1934

20946 BUFLOD, A. H. One of the world's greatest pulpwood centers. (In Norwegian.) Skog- og Landarb. 1950:148-149. Oct.1950. 283.8 Sk5

Sundsvall, Sweden.

20947 BURGESTAD, F. The Norwegian pulp and paper industry. Pulp & Paper Mag. Canada 51(13):73-76. Dec.1950. 302.8 P96

20948 CANADA. BUR. OF STATISTICS. The pulp and paper industry, 1949. Ottawa,1949. 45 p. (v.2,pt.IX-H-1) 302.9 C162

20949 CASCANI, F., and STORIN, G. K. Chlorine dioxide and alkaline peroxide in kraft bleaching. Tappi 33:588-594. Ref. Dec.1950. 302.8 T162

20950 CHITTENDEN, A. E., and COOMBER, H. E. The suitability of banana trash from Jamaica as a paper-making material. Colon. Plant & Anim. Prod. 1:64-67. Jan./Mar.1950. 472 C71

20951 COPE, H. N., and MEYER, H. A. Chemical tree-killer extends the pulpwood peeling season. Sci. Farmer [Pa. Sta.] 1950:10. Dec.1950. 100 P381

Sodium arsenite applied to girdled trees.

20952 HÄGGLUND, E. Neuere ergebnisse der chemie des sulfat- und sulfat-kochprozesses. (Abs.) Angew. Chem. 62:485. Oct.21,1950. 384 Z33

20953 JAYME, G. Strukturelle und chemische unterschiede zwischen sulfat- und sulfatzellstoffen. (Abs.) Angew. Chem. 62:485-486. Oct.21,1950. 384 Z33

20954 JOINT EXECUTIVE COMMITTEE OF THE VOCATIONAL EDUCATION COMMITTEES OF THE PULP AND PAPER INDUSTRY OF THE UNITED STATES AND CANADA. Pulp and paper manufacture. New York, McGraw-Hill,1950. 1043 p. 302 J66P

20955 KISSER, J., KÖLLI, G., and STEININGER, A. Mikroskopische untersuchungen an holzfaserdämmplatten. Österr. Gesell. f. Holzforsch. Mitt. 2:85-93. Ref. In Internatl. Holzmarkt 41(17). Aug.1950. 99.81 In82

20956 MASTROKALO CARLIN, A. La industria de la celulosa y sus posibilidades en el país. Cong. Peruano de Quim. Actas y Trab. 1949(2):825-836. 385 C763

Cellulose from wood and other plant fibers.

20957 MURTO, J. O., and PEROLAHTI, O. Chipping of pulpwood. V. (In Finnish.) Paperi ja Puu. B 32:309-317. Oct.15,1950. 302.8 P1991

English summary.

20958 ROBINSON, C. T. Refining of groundwood rejects. Tappi 33:566-571. Dec.1950. 302.8 T162

20959 SIHTOLA, H., and GUSTAFSSON, G. R. On the oxidation of sulphite pulp during afterbleaching. Paperi ja Puu. B 32:295-305. Ref. Oct.15,1950. 302.8 P1991

20960 SMITH, G. E. Pulpwood cuttings in the poorer hardwood sites of New Jersey. J. Forestry 48:850-851. Dec.1950. 99.8 F768

20961 SPROULL, R. C. Kraft pulp from old railway ties. Canad. Pulp & Paper Indus. 3(12):6-7,30. Dec. 1950. 302.8 W52

20962 WEST, C. J., ed. The utilization of sugar cane bagasse for paper, board, plastics, and chemicals; an annotated bibliography. Sugar Res. Found. Sci. Rpt. Ser. 3(sup.),20 p. Apr.1949. 65.9 Su34

20963 WILEN, R. On pulpwood barking and the bark as fuel. (In Swedish.) Paperi ja Puu. B 32:352-353. Nov.15,1950. 302.8 P1991

English summary.

20964 WITTS, A. C. G. The load control of wood grinders. Paper-Maker & Brit. Paper Trade J. 1950:6-18,20-21,54. 302.8 P1922



## Chemical Products and Distillates

- 20965 SORMANI, R. The culture of chestnuts in Italy and France and their utilization for tanning extracts. (In Italian.) Italy. Staz. Sper. per l'Indus. delle Pelli e delle Materie Concianti. B. Uffic. 26:166-177. Oct.1950. 303.8 It1
- 20966 ZEDET, M. La gazéification totale du bois. (Abs.) Chim. & Indus. 64(3,spec.no.):105-106. Sept.1950. 383 C42

## Naval Stores

- 20967 BARDYSHEV, I. I. Composition of turpentine from *Larix daurica* T. (In Russian.) Zhur. Prikl. Khim. 23:882-885. Ref. Aug.1950. 385 Z64
- 20968 BESSER, A. A., and SINITSKII, V. P. On continuous tapping of *Pinus*. (In Russian.) Lesn. Promysh. 10(6):19-21. June 1950. 99.82 L56
- 20969 ČOKL, M. L'importance et les problèmes du gemmage. (In Croatian.) Gozdarski Inst. Slovenije. Izv. 1:231-251. 1950. 99.9 L76  
French summary.
- 20970 CRIVELLARI, D. First results of some studies on resin production from Aleppo pine and Corsican pine. (In Italian.) Foreste 2:107-116. Aug.1950. 99.8 F7694
- 20971 DESILVIA, E. R. Naval stores conservation program for 1951. Nav. Stores Rev. 60(34):4-5. Nov.18, 1950. 99.81 N22  
Also in Forest Farmer 10(2):8. Nov.1950. 99.8 F7692
- 20972 HOLDMAN, E. T. Naval stores industry. Amer. Paint J. 35(14):60,62-63. Dec.25,1950. 306.8 Am32
- 20973 LIZUNOV, A. A. 25th anniversary of the native rosin-turpentine industry. (In Russian.) Lesn. Promysh. 10(7):26-27. July 1950. 99.82 L56
- 20974 OLIVER, E. Naval stores. Forest Farmer 10(2):11. Nov.1950. 99.8 F7692
- 20975 PATTON, E. L. Research has modernized the gum naval store industry. (Abs.) Wood [Chicago] 6:36. Jan.1951. 99.82 W859
- 20976 SCHOPMEYER, C. S. Fall vs. spring clean-up streak for acid treated timber. Nav. Stores Rev. 60(35):13. Nov.25,1950. 99.81 N22
- 20977 SHINGLER, G. P. Oak Ridge and chemistry. Nav. Stores Rev. 60(35):14,26-28. Nov.25,1950. 99.81 N22  
Atomic energy and naval stores.
- 20978 SNOW, A. G. Winter work and acid treatment. Nav. Stores Rev. 60(40):22-23. Dec.30,1950. 99.81 N22

## Other Forest Products

- 20979 BELANI, E. Buchenholz als werkstoff für die büstenerzeugung. Internatl. Holzmarkt 41(18):32-33. Sept.9,1950. 99.81 In82
- 20980 BRYANT, L. H. The utilisation of sawmill waste. N. S. Wales. Forestry Comm. Div. Wood Technol. Tech. Notes 4(10/12):7-10. Aug.1950. 99.9 N472T
- 20981 COTE, R. R. How not to handle a crop. MacDonald Col. J. 11(3):15. Nov.1950. 101 M144  
Christmas trees.
- 20982 FENTON, R. H., and MCKUSICK, H. A. A pilot study of a portable wood chipper. U. S. Forest Serv. Neocast. Forest Expt. Sta. Paper 37,18 p. Oct.1950. 1.9622 N2S122
- 20983 GETSON, S. F. Millions of trees for Christmas. Family Herald & Wk. Star 81(50):7. Dec.14,1950. 7 F21
- 20984 GRANBERG, W. J. Where wood waste means industry. South. Lumberman 181(2273):304-306. Dec.15, 1950. 99.81 So82
- 20985 HOSSACK, G. W. Charcoal briquettes from wood waste. Brit. Columbia Lumberman 34(12):116,118, 120,122. Ref. Dec.1950. 99.81 B77
- 20986 JÄESCHKE, A. Die maschinelle einrichtung zur herstellung von leichtbauplatten. Holz 4:177-179. Sept.1950. 99.82 H743
- 20987 KIRBY, R. H. Tonkin canes and rattans. World Crops 3:5-7,13. Jan.1951. 281.8 W892  
Arundinaria and Calamus.
- 20988 KLAUDITZ, W. Verwendung und wirkung von kunstharzbindemitteln bei der herstellung von holzfaser- und holzspanplatten. (Abs.) Kunststoffe 40:327. Oct.1950. 309.8 K96
- 20989 LENTZ, A. N. Cash from Christmas trees. Rural New-Yorker 100:854-855. Dec.16,1950. 6 R88

- 20990 LIRON, R. Tuyaux en bois. Bois 67(20):1-2. Nov.10/15,1950. 99.82 B632
- 20991 MCELHANNY, T. A. Waste wood in the forest and industry. World Forestry Cong. Proc. 3(1):177-188. 1949. 99.9 C76912A
- 20992 MCINTYRE, A. C. Woodchips fill the bill for both soil & water on conservation farms. Better Farms 10(6):6,12. Dec.1950. 6 B462  
Chip bedding and advantages of chip manure.
- 20993 MATHIEU, H. Le bois matière première du jouet. Rev. du Bois 5(12):3-6. Dec.1950. 99.82 R32
- 20994 MATSON, G. J. Christmas trees. Estate Mag. 50:483-484. Dec.1950. 10 Es8
- 20995 MEYER, A. B. The Christmas tree. Mo. Conserv. 11(12):13. Dec.1950. 279.8 M69
- 20996 RICHARDS, J. When \$\$ grow on trees. Forest & Outdoors 46(12):8-9. Dec.1950. 99.8 C16  
Christmas trees.
- 20997 STEARNS, J. L. New products from lumber waste. Amer. Lumberman & Bldg. Prod. Merchandiser 1950:28-29. Dec.30,1950. 99.81 Am3
- 20998 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Christmas trees, by B. Bergoffen, A. Sowder, and K. M. Gapen. Washington,1950. 4 p. 1.914 R2R11
- 20999 VOELSKOW, P. Die bearbeitung und verbindung von holzspanplatten. Holz 4:173-177. Sept.1950. 99.82 H743

## WOOD TECHNOLOGY

- 21000 ENKVIST, T., and MÄKELÄ, K. Lubricating oil from pine tar and tall oil. 2nd report: the effect of catalysts on the decarboxylation of resin acids from tall oil and tall oil pitch. Teollisuuden Keskuslab. Tiedonanto-ja 78,50 p. Ref. 1950. 330.9 T26
- 21001 FREUDENBERG, K. Natürliches und künstliches lignin. (Abs.) Angew. Chem. 62:485. Oct.21,1950. 384 Z33
- 21002 HÄGGLUND, E. Developments in the field of chemical wood utilization. World Forestry Cong. Proc. 3(1):189-196. 1949. 99.9 C76912A
- 21003 JENSEN, W. Investigation of fusel oil obtained in the production of alcohol from sulphite waste liquor. I. (In Swedish.) Paperi ja Puu. B 32:329-332. Nov.15,1950. 302.8 P1991  
English summary.
- 21004 KISSER, J., and FRENZEL, H. Mikroskopische veränderungen der holzstruktur bei mechanischer überbeanspruchung von holz in der faserichtung. Österr. Gesell. f. Holzforsch. Schrrreihe. 2:7-31. Ref. 1950. 99.9 Os72S
- 21005 KURTH, E. F. Methyl ester of dehydroperillallic acid, an odoriferous constituent of Western Red Cedar (*Thuja plicata*). Amer. Chem. Soc. J. 72:5778-5779. Dec.1950. 381 Am33J
- 21006 LAMB, G. N. Foreign woods: origin, use, properties and nomenclature. Wood Prod. 55(12):24. Dec.1950. 99.82 W856
- 21007 RUNKEL, R. O. H. Neuere forschungen auf dem gebiet der holzplastifizierung. (Abs.) Angew. Chem. 62:485. Oct.21,1950. 384 Z33
- 21008 SOHN, A. W. UV-absorptionsspektren von lignin und lignin-artigen substanzen. (Abs.) Angew. Chem. 62:485. Oct.21,1950. 384 Z33
- 21009 SUNDMAN, J. The fructosans in wood. (In Finnish.) Paperi ja Puu. B 32:306-308. Ref. Oct.15, 1950. 302.8 P1991  
English summary.
- 21010 TACHI, I., and YAMAMORI, N. Studies on hemicelluloses. I-II. (In Japanese.) Wood Res. 1950(4):1-18. Ref. Feb.1950. 99.82 W8524  
English summary.
- I, On the extraction of hemicelluloses from the trunk sawdust of *Prunus serrulata* Lindl. var. *spontanea* Makino (*Yamazakura*) and their fractionation; II, On hydrolysis and composition of hemicelluloses prepared from the trunk sawdust of *Prunus serrulata* Lindl. var. *spontanea* Makino (*Yamazakura*).
- 21011 THUNELL, B. Neuere ergebnisse der holz-technologischen forschung in Schweden. Österr. Gesell. f. Holzforsch. Schrrreihe. 2:51-74. 1950. 99.9 Os72S
- 21012 WACEK, A. Holz und chemie. Österr. Gesell. f. Holzforsch. Schrrreihe. 2:153-162. 1950. 99.9 Os72S



21013 WACEK, A. VON. Über die bindung der lignin-kohlenhydrate. (Abs.) *Angew. Chem.* 62:485. Oct.21,1950. 384 Z33

Use of Entandophragma utile.

21014 WAESER, B. Neuzetliches verfahren zur verwertung von lignin und zellstoffablauge. *Chem.-Ztg.* 74: 679-681. Ref. Nov.9,1950. 384 C427  
English summary.

#### Properties and Structure

21015 BARKAS, W. W. Swelling stresses in gels and the calculation of the elastic constants of gels from their hygroscopic properties. *Gt. Brit. Dept. Sci. & Indus. Res. Forest Prod. Res. Spec. Rpt.* 6, rev., 62 p. Ref. 1950. 99.9 G796S

21016 BAZHENOV, V. A., and IVANOV, IÜ. M. Effect of swelling on deformation of precompressed wood. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:663-666. Aug.1, 1950. 511 P444A

21017 DOHR, A. W. Strength of Virginia pine established. *South. Lumberman* 181(2273):225-226. Dec.15, 1950. 99.81 So82

21018 FLEISCHER, H. O. An anatomical comparison of refractory and easily treated Douglas fir heartwood. *Amer. Wood-Preserv. Assoc. Proc.* 46:152-156. 1950. 300.9 Am3

21019 FUKADA, E. Vibrational study of the wood used for the sound boards of pianos: *Nature [London]* 166: 772-773. Nov.4,1950. 472 N21

21020 GOVERS, A. Bepaling van de variatie van het soortelijk gewicht van houtsoorten met toepassing op de familie der Dipterocarpaceae. Determination of the variation of the specific gravity of wood species with application on the family of the Dipterocarpaceae. In-donesia. *Bosbouwproefsta. Rap.* 38,20 p. Sept.1950. 99.9 Ea72R

English summary.

21021 HESS, R. W., WANGAARD, F. F., and DICKINSON, F. E. Properties and uses of tropical woods. II. *Yale U. School Forestry. Trop. Woods* 97,132 p. Nov.1, 1950. 99.08 Y1Tr

21022 KELLNER, "Drehwuchs" bei der fichte. *Allg. Forstz.* 5:531-532. Dec.6,1950. 99.8 AL52

21023 KLOOT, N. H. A new testing machine to help in the growing of better grade timber. *Austral. Council Sci. & Indus. Res. Forest Prod. News Let.* 181:3-4. Feb./Mar.1950. 99.9 Au722F

Testing properties of wood.

21024 KOEHLER, A. Importance of moisture in wood. (Abs.) *Wood [Chicago]* 6:36. Jan.1951. 99.82 W859

21025 KRAEMER, J. H. Growth-strength relations of red pine. *J. Forestry* 48:842-849. Ref. Dec.1950. 99.8 F768

21026 MARTS, R. O. Wood quality of bud-pruned longleaf pine. *South. Lumberman* 181(2273):197-199. Dec.15,1950. 99.81 So82

21027 PENTEGOVA, V. A. Chemical composition of Siberian cedar [Pinus cembra sibirica] wood. (In Russian.) *Zhur. Prikl. Khim.* 23:998-1000. Ref. Sept. 1950. 385 Z64

21028 POLETIKI, N. V. New lumber tester. *Wood [Chicago]* 6:18-19. Jan.1951. 99.82 W859

Electrical resistance strain gauge for testing strength.

21029 REECE, P. O. Utilisation; some notes on the systematic selection of particular species for particular uses. *T. D. A. Q. Rev.* 2(11):10-11. Oct.1950. 99.9 T48T

21030 SCHOLTEN, J. A. Nail-holding properties of southern hardwoods. *South. Lumberman* 181(2273):208-210. Dec.15,1950. 99.81 So82

21031 WOOD, L. W. Southern pine and the density rule. *South. Lumberman* 181(2273):236-238. Dec.15, 1950. 99.81 So82

#### ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

#### BREEDS AND BREEDING

21032 CASTLE, W. E. Are mosaic genes semi-allelic? *Amer. Nat.* 84:497-498. Nov./Dec.1950. 470 Am36

Examples given from animals.

21033 JOHANSSON, I. Genetic research in Great Britain. (In Swedish.) *Lantmannen* 34:768-771. Oct.7, 1950. 11 L234

Livestock.

21034 RAMSTETTER, D. Vicuna high among the Andes. *Rec. Stockman, Annu. Ed.* (1951)61(52):183-184. Dec.28,1950. 49 D43

Breeding.

21035 SCHMIDT, R. Die künstliche befruchtung und ihre bedeutung für die tierzucht. *Wien. Tierärztl. Monatsschr.* 37:866-873. Dec.1950. 41.8 T345

21036 SIRRI, A. Advantages and dangers of artificial insemination. (In Italian.) *Riv. di Zootec.* 23:291-292. Sept.1950. 49 R52

21037 WINTERS, L. M. The livestock breeder. *Zebu J.* 2(7):8,36-40. Dec.1950. 43.8 Z12

21038 WINTERS, L. M. What's ahead in livestock breeding? *Co-op Shipper* 31:6-7. Jan.1951. 280.38 C78

21039 YOHE, R. S. Good breeding; it can mean success or failure in livestock, dairy farming. *Prairie Farmer, Gen. Ed.* 122(24):11,38. Dec.16,1950. 6 P883

#### FEEDS AND FEEDING

21040 AXELSSON, J. The pH value of AIV silage. (In Swedish.) *Lantmannen* 34:807-808. Oct.21,1950. 11 L234

21041 BAILEY, V. D., and LEWY VAN SEVEREN, M. Minerales para el ganado. *Cent. Nac. de Agron. C. Agr.* 13,4 p. Sept.1950. 8 Sa54C

21042 BAUMANN, C. A. Stability of vitamins in feeds. *Feedstuffs* 22(49):32. Dec.9,1950. 286.81 F322

21043 BOLIN, D. W., KLOSTERMAN, E. W., and JENSEN, C. Prairie hay as source of vitamin A. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:85-86. Nov./Dec.1950. 100 N813B

21044 BORDE, F. DE LA. Un nouveau système d'ensilage des fourrages. *Rev. Agr. de l'Afrique du Nord* 48:746-748. Oct.13,1950. 80 R326

21045 BREIREM, K., ULVESLI, O., and FRANK, H. Quality of the hay crop 1950. (In Norwegian.) *Norsk Landbr.* 16:438-442. Nov.24,1950. 11 N8122

21046 BURKE, J. D. Hay quality on New York farms. *N. Y. Agr. Col. Ext. Cornell Feed Serv.* 29:2-4. Nov.1950. 1950. 275.29 N48Cf

21047 BURKITT, W. H. You may need more phosphorus in your feeds plus trace minerals; nature provides rest. *Mont. Farmer-Stockman* 38(2):35-36. Sept.15,1950. 6 M764

21048 BURRELL, J. H. Chemurgic possibilities in nutrition. *Chemurg. Digest* 10:4-5. Jan.1951. 381 N213Na

Animal feeding.

21049 BURROUGHS, W. Roughage utilization by ruminants as influenced by dietary constituents upon rumen microflora. *Feedstuffs* 22(49):34,36-38,40-41,44. Dec.9,1950. 286.81 F322

21050 CORONADO, J. Elaboración de forraje para alimentación del ganado. *Tambo y Chacra* 24(784):6,8. Dec.10,1950. 44.8 T15

Balanced rations.

21051 CORRIE, F. E. Feeding farm animals. 29,31. *Fert. Feed. Stuffs & Farm Supplies J.* 36:681-683,747, 750-751. Nov.1,29,1950. 57.8 F413

21052 DÍAZ UNGRÍA, C. Aprovechamiento de la hoja de higuera para la alimentación del ganado. *B. de Zootecnia* 6:303-306. Sept.1,1950. 41.9 So16

21053 DIJKSTRA, N. D. De voederwaarde van stoppelknollen. The feeding value of stubble-rapes (late turnips). *Netherlands. Dir. van de Landb. Verslagen van Landbk. Onderz.* 56(4),37 p. Ref. 1950. 105.2 V61V

English summary.

21054 DINUSSON, W. E. What's a fair price to pay for protein? *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:65-66. Nov./Dec.1950. 100 N813B

Protein supplements in livestock nutrition.

21055 ELVEHJEM, C. A. Necessary added nutritional factors. (Excerpts.) *Grain & Feed J. Consolidated* 105 (9):26-27. Nov.8,1950. 298.8 G762

21056 EZCURRA, J. C. Consideraciones sobre la harina de pescado en la alimentación de animales domésticos. *Res* 18:25478. Nov.20,1950. 286.85 R31

21057 GRAHAM, The feeding of stock. II-III. *Trans-keian Ter. Agr. Dept. Umcebi Womlimi Nomfuyi* 27(1): 33-38; (2):7-10; (3):17-19. Feb.-Aug.1950. 24 T684



- 21058 GRAHAM, W. R., JR. Use of thyroxine-like products in animal feeding. *Feedstuffs* 22(49):60-62. Dec.9,1950. 286.81 F322
- 21059 HANSON, L. E. Practical explanation of some terms in animal nutrition. *Nebr. Agr. Col. Ext. E. C.* 252,8 p. Oct.1950. 275.29 N272Ex
- 21060 HARDY, T. W., JR. Trace minerals needed for healthy farm animals. *Midland Coop.* 18(18):6. Dec.4, 1950. 280.28 M58
- 21061 HARRIS, R. S., and THIMANN, K. V., eds. Vitamins and hormones; advances in research and applications, v. VIII. New York, Academic Press, 1950. 342 p. Ref. 386.2 H243  
Includes vitamins in animal and plant nutrition.
- 21062 HEINEMANN, W. W. The preservation of by-product feeds in the State of Washington. *Wash. Agr. Expt. Sta. C.* 84,7 p. Jan.1950. 100 W27S
- 21063 HEINEMANN, W. W., and others. Value of sugar beets. *Flour & Feed* 51(7):27. Dec.1950. 298.8 F66  
H. P. Singleton, M. E. Ensminger, and W. E. Ham, joint authors.  
In livestock nutrition.
- 21064 INSTITUT PROFESSIONNEL DE CONTROL ET DE RECHERCHES SCIENTIFIQUES DES INDUSTRIES DE L'ALIMENTATION ANIMALE. La recherche scientifique dans le domaine de l'alimentation animale. *Inst. Prof. de Control e de Rech. Sci. des Indus. de l'Aliment. Anim. Commun.* 2,35 p. Aug.1950. 389.79 In7
- 21065 JELMONI, E. An ever present basic problem. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:297-298. Nov.15, 1950. 16 C72  
Livestock feeding.
- 21066 KAPPELLE, D. Sampling of forage crops for chemical analysis. (In Dutch.) *Netherlands. Landbouwlichtingsdienst. Maandbl.* 7:437-441. Oct.1950. 12 N383M
- 21067 KOENIG, R. M. When mighty minerals are added in balance, rates of gain increase. *Better Farms* 10(6):5,15. Dec.1950. 6 B462  
Minerals in livestock nutrition.
- 21068 KOSTER. Modern livestock feeding. (In Dutch.) *Groninger Landtbl.* 28(47):14. Dec.2,1950. 12 G892
- 21069 KUMMER, H. "Futterzusatzmittel M-blau-spezial" ist kein futtermittel. *Bad. Landwirt. Wchnbl.* 117:813. Nov.25,1950. 18 B142
- 21070 LADRAT. Les tourteaux alimentaires. *Rev. de Méd. Vét. [Toulouse]* 101:260-264. May 1950. 41.8 R32
- 21071 LOOSLI, J. K., and MUSGRAVE, R. B. Stage of maturity and feeding value of hay. *N. Y. Agr. Col. Ext. Cornell Feed Serv.* 29:5. Nov.1950. 275.29 N48Cf
- 21072 LOUSSE, A. La valeur alimentaire de l'azote non protidique chez les ruminants. *Ann. de Méd. Vét.* 94: 514-551. Ref. Oct.1950. 41.8 An78
- 21073 LOVERN, J. A., and GODDEN, W. The possible use of fish guts as food for animals. *J. Sci. Food & Agr.* 1:314-316. Oct.1950. 382 So12
- 21074 MACEDO, J. N. Watering places. (In Portuguese.) *Seleç. Agr.* 5(54):54. Oct.1950. 9.2 Se4  
For livestock.
- 21075 MERTENS. Dämpfen und einsäuern. *Kartoffelbau* 1:106-108. Oct.1950. 75.8 K145
- 21076 MÖLLER, M., and LUND, A. Ensilage of boiled potatoes. (In Danish.) *Dansk Pelsdyravl* 13:241-244. Nov.1,1950. 412.628 D23
- 21077 MONTERO, C. M. Nutrition, synonym of success. (In Portuguese.) *Seleç. Agr.* 5(54):80-83. Oct. 1950. 9.2 Se4  
In livestock raising.
- 21078 MORIMOTO, H. Studies on the feeding value of the leaves and stems of various plants. (In Japanese.) *Japan. Zotech. Expt. Sta. Res. B.* 57,106 p. Mar.1950. 49.9 J272  
English summary.
- 21079 NEHRING, K. Die einsäuerung von kartoffeln und kartoffel-grünfüttergemischen. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:33-35. Sept.1950. 18 D4822
- 21080 NIELSEN, C. G. G. New perspectives in the field of silage. II. (In Danish.) *Dansk Landbr.* 69:544-546. Oct.26,1950. 280.28 V91
- 21081 ORR, C. Livestock feeding and care practices change radically. *West. Farm Life* 53(Annu. Livestock Rev. 1951):195-196. Jan.1,1951. 6 R153
- 21082 PATERSON, R. Problems of management; Silage—a closer study. *Farmers Wk. [London]* 33(22):61. Dec.1,1950. 10 F2226  
Silage preparation.
- 21093 RICHTER, K. Die verfütterung eingesäuerter kartoffeln. *Kartoffelbau* 1:108-109. Oct.1950. 75.8 K145
- 21094 ROGERS, C. F. Experience with silo seals. *Natl. Assoc. Silo Mfr. Proc.* 38:90-100. 1950. 60.79 N21  
Includes discussion.
- 21095 ROGERS, C. F. Grass silage developments. *Natl. Assoc. Silo Mfr. Proc.* 38:76-89. 1950. 60.79 N21  
Includes discussion.
- 21096 SCHOCH, W. Ueber den einfluss der verfütterung von silage auf den stoffwechsel des wiederkäuers. *Grüne* 78:404-407. (To be cont.) Ref. Apr.14,1950. 17 Sch9
- 21097 SEIDEL, K. Silage making in Germany. *Farming* 4:363-364,368. Dec.1950. 10 F2236
- 21098 SEVERSON, H. More mileage from grass silage. *Successful Farming* 49(1):38,58-59. Jan.1951. 6 Sul2  
Feed value of grass silage.
- 21099 SHEEHY, E. J. Other aspects of farm feeding. *Agr. Ireland* 7:279-281. Dec.1950. 10.5 Ag8
- 21090 SOBACHENKOV, P. A. Utilizing for silage the waste products of the vegetable industry. (In Russian.) *Sad i Ogorod* 1950(9):55-57. Sept.1950. 80 Sa13  
Leaves of root crops, potatoes, and melons.
- 21091 SOLHEIM, K. The animal protein factor A.P.F. and vitamin B12. (In Norwegian.) *Norsk Pelsdyrbl.* 24:332-336. Oct.20,1950. 412.628 N812
- 21092 SPARKS, W. T. Emergency methods of fodder conservation as silage. *Milk Bd. J.* 1:531. Oct.16,1950. 44.8 M5934
- 21093 STEENBERG, V., and WINTHER, J. E. Fordøjelighedsforsøg med lucerne, lucernegronmel og lucernehømel [Digestibility experiments with alfalfa, alfalfa green meal and alfalfa hay meal]. *Denmark. Stat. Husdyrbrugsudv. Forsøgslab. Beret.* 250,121 p. 1950. 104 D41  
English summary.
- 21094 TALLARICO, G. The value of a byproduct. (In Italian.) *Terra e Sole* 97:298,306. Sept.1950. 16 T273  
Oat hulls for feed.
- 21095 TINDALL, C. Something new, easier too, in livestock feeding. *Mo. Rur.* 91(22):4-5,13. Nov.25,1950. 6 R8891
- 21096 USUELLI, F. Recent research on the relation between nutrition and reproduction. II-III. (In Italian.) *Riv. di Zootec.* 23:282-285,315-318. Sept.-Oct.1950. 49 R52  
Variations in the quantity and quality of proteins; Variations in the ternary alimentary principles; Variations in the nutritive value of minerals.
- 21097 VALDINOCI, M. Proper feeding of livestock; how to maintain high livestock production even during the winter. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 88:6-7. Dec.23,1950. 281.8 Ag3
- 21098 VANDENHENDE, J. L'ensilage après cuisson des pommes de terre fourragères. *J. de la France Agr.* 6:1193,1196. Nov.3/9,1950. 14 J829
- 21099 VERBEEK, W. A. Molasses; its value for the farmer. (In Afrikaans.) *Landbouweekblad* 32(1630):11. Oct.11,1950. 24 L232  
Nutritive value as feed.
- 21100 VITAMIN E. *Nutr. News B.* 7,4 p. Ref. Jan. 1951. 389.78 N95  
Occurrence in feeding stuffs and use in animal and poultry nutrition.
- 21101 WALLIS, G. C. Vitamin D in hay varies very widely. *Milling & Feed* 31(11):20-21. Nov.1950. 298.8 C162
- 21102 WYATT, J. A. Some aspects of root crops for stock feeding. *Kent Farmers' J.* 68:186-187. Nov.1950. 10 K41
- 21103 ZUCHER, T. F., and ZUCKER, L. M. "Animal protein factor" and vitamin B12 in the nutrition of animals. In Harris, R. S., and Thimann, K. V., eds. Vitamins and hormones; advances in research and applications, v. VIII, p.1-54. Ref. New York, Academic Press, 1950. 386.2 H243

## VETERINARY MEDICINE

- 21104 APICE, M. D'. Vaccine against foot-and-mouth disease. I. Obtaining virulent material (virus) for use in preparing the vaccine. (In Portuguese.) *Biológico* 16:117-123. June 1950. 442.8 B529



- 21105 ARIES, L. Zum problem: fremdkörperoperation. Tierärztl. Umschau 5:336-337. Sept.1950. 41.8 T445
- 21106 ATCHLEY, F. O. A survey of blood parasites in domestic animals in South Carolina. (Abs.) J. Parasitol. 36(6,sect.2):22. Dec.1950. 44.8 J824  
Relation to mosquitoes.
- 21107 BAILEY, J. W. While diagnosing ails look carefully before deciding. South. Livestock J. 10(6):71. Jan.1951. 43.8 F66A
- 21108 BALDELLI, B. La fiebre Q = F. Q nueva entidad morbosa transmisible de los animales al hombre. Rev. de Sanidad Vet. 5:578-610. Aug.15,1950. 41.8 R3222  
Coxiella burnetii, its animal hosts, and tick vectors.
- 21109 BARDOULAT, M. Les indications d'ipéca en homéopathie vétérinaire. Rev. de Méd. Vét. [Toulouse] 101:132-139. Mar.1950. 41.8 R32
- 21110 BARRETO D., R. Estudios hematológicos en animales domésticos normales. Cong. Peruano de Quim. Actas y Trab. 1949(1):344-352. 385 C763  
Composition.
- 21111 BASSET, J. Artifices employés dans l'immunisation: réaction locale—adsorbants—voie d'introduction. Rev. de Méd. Vét. [Toulouse] 101:337-355. July 1950. 41.8 R32
- 21112 BASSET, J. Contrôle de l'innocuité et de l'efficacité des sérums et des vaccins contre le charbon symptomatique. Acad. Vét. de France. B. 23:427-429. Oct.1950. 41.9 R24
- 21113 BEDERKE, O. Zum flüchtlingsproblem. Tierärztl. Umschau 5:337-339. Sept.1950. 41.8 T445  
In the veterinary profession in Germany.
- 21114 BERTRAM, F. Zur lage der prakt. tierärzte. Tierärztl. Umschau 5:427-429. Nov.1950. 41.8 T445
- 21115 BHADURI, J. L. Pregnancy diagnosis tests in farm animals (using the common Indian toad, Bufo melanostictus Schneid). Vet. Rec. 62:618-619. Nov.4, 1950. 41.8 V641
- 21116 BORZONI, G. A new disease. (In Italian.) Agr. Romagn. 1950(32):1. Dec.5,1950. 16 Ag828  
Q fever.
- 21117 BOURNE, R. F. The physiology of disease. VIII. Disorders of the liver. No. Amer. Vet. 32:26-29. Jan.1951. 41.8 N812
- 21118 BOYD, A. G. Northwestern States Brucellosis Conference; Boise, Idaho, September 7, 8, 1950. Calif. Vet. 4(2):13-14. Nov./Dec.1950. 41.8 C12
- 21119 BRÜGGEMANN, K. Gedanken über organisation und aufgaben der tierärzteschaft. Tierärztl. Umschau 5:426-427. Nov.1950. 41.8 T445
- 21120 BUENO, P. Infections and parasitoses transmissible to man through foods of animal origin. (In Portuguese.) Biológico 16:136-139. July 1950. 44.8 B529  
Tuberculosis, brucellosis, scarlet fever, foot-and-mouth disease.
- 21121 BURTT, E. The temperature of animals. East African Agr. J. 16:40-42. Ref. July 1950. 24 Ea74
- 21122 CANADA. DEPT. OF AGRICULTURE. VETERINARY DIRECTOR GENERAL. Report, for the year ended March 31, 1950. Ottawa,1950. 57 p. 41.9 C16
- 21123 CARNEIRO, V. Geographical distribution and frequency of Aujeszky's disease in Brazil. (In Portuguese.) Biológico 16:49-58. Mar.1950. 44.8 B529
- 21124 CASTELLÁ BERTRAN, E. Leptospirosis de los animales domésticos. Rev. de Sanidad Vet. 5:750-765. (To be cont.) Nov.15,1950. 41.8 R3222
- 21125 CHALKER, J. W. S. How the T.B. scheme will work. Times Survey Brit. Agr. 1950.13. Oct.1950 10 T48
- 21126 CHERRY, G. The Animal Health Trust and farm livestock. Guernsey Breeders' J. [London] (n.s.) 4 (4):30,32,34,38. Winter 1950. 43.8 G932
- 21127 CHEVRIER. Vaccins et vaccinations au Maroc. Terre Marocaine 24:395-399,452-456. Oct.-Nov.1950. 24 T44  
Livestock diseases.
- 21128 CHOREMI, G. J. La castration par le systeme "elastator." Feuilles Agr. 7(64):121-122. July/Sept. 1949. 24 F43  
Livestock.
- 21129 COYLE, C. Showmanship in education: county agent bombards farmers from the air with brucellosis pamphlets. Natl. Co. Agent & Vo-Ag Teacher 6(12):15. Dec.1950. 27.5.28 N213
- 21130 CUENCA, C. L. DE, and OVEJERO DEL AGUA, S. Fiebre aftosa en Venezuela. Ganaderia [Madrid] 8: 537-538. Aug.1950. 49 G15
- 21131 CUPPS, P. T. Variations in the estrous cycle and breeding efficiency. Calif. Vet. 4(2):16-17. Nov./Dec. 1950. 41.8 C12
- 21132 DANIELSON, I. S. Laboratory studies on the immunizing value of hemorrhagic septicemia bacterin and blackleg bacterin. (Abs.) Vet. Med. 46:13-14. Jan.1951. 41.8 M69
- 21133 DE KOCK, G. Veterinary services in Australia and New Zealand: a few impressions. So. African Vet. Med. Assoc. J. 21:93-99. (To be cont.) Sept.1950. 41.8 So8
- 21134 DENAMUR, R., and SIMONNET, H. Quelques aspects du mécanisme physiologique de l'érection et de l'éjaculation. Rec. de Méd. Vét. 126:577-594. Oct.1950. 41.8 R24  
In domestic animals.
- 21135 DIAMANT, G. Notes on a Southern practice. M. S. C. Veterinarian 11:35-38. Fall 1950. 41.8 M582
- 21136 DRAHN, F. Amino-Weidnerit, ein neues wundheilmittel für die tierärztliche praxis. Tierärztl. Umschau 5:330-332. Sept.1950. 41.8 T445
- 21137 ESTRADA, E. La lombriz del pulmon en el ganado. Agr. Costarricense 8:420-423. Nov.1950. 8 Ag895
- 21138 EUZÉBY, J. Une nouvelle maladie commune à l'homme et aux animaux: "la fièvre Q". Rev. de Méd. Vét. [Toulouse] 101:319-327. June 1950. 41.8 R32
- 21139 FAGAN, R. Virus diseases transmissible from animal to man. I. M. S. C. Veterinarian 11:10-13,16 Fall 1950. 41.8 M582
- 21140 FITZPATRICK, M. J. Notes on animal diseases. XXII. The diagnosis of animal diseases by the Veterinary Laboratory. East African Agr. J. 16:16-25. July 1950. 24 Ea74
- 21141 FOLLING, B. N. Puntos de vista sobre control de entrada de la aftosa. Rev. de Agr., Com. e Indus. [Panama] 8(110):9-10. Oct.1950. 8 R3291  
Panama.
- 21142 FORUM on general practice. Iowa Vet. 21(6):7-12. Nov./Dec.1950. 41.8 Io9  
Dr. S. M. Paul, leader.
- 21143 FRAZÃO, J. V. Variations in the lipids of the suprarenal cortex of ruminants. (In Portuguese.) Rev. de Med. Vet. [Lisboa] 44:219-238. Oct./Dec.1949. 41.8 R3215  
French summary.
- 21144 FREITAS BIGLIERI, J. DE. Vacunación anti-aftosa. Rev. de Med. Vet. [Montevideo] 4:902-903. Mar./June 1949. 41.8 R327
- 21145 FREPPAZ, C., and PERROT, G. Il y a 150 ans... ou la mauvaise réputation des vétérinaires. Rec. de Méd. Vét. 126:557-558. Sept.1950. 41.8 R24
- 21146 FROEHNER, R. Beitrag zur geschichte des Tierarznei-Instituts in Jena. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:188. Sept.1950. 41.8 B45
- 21147 FUNGUS diseases of animals. Vet. Rec. 62: 623-624. Nov.11,1950. 41.8 V641
- 21148 GARCIA MATA, E. La lucha contra la aftosa en la Argentina; comentarios sobre la conferencia del Profesor Waldmann. Gac. Vet. 12:147-157. July/Aug. 1950. 41.8 G112
- 21149 GEIGER, W. Die pluralität des maul- und klauenseuchevirus und die westdeutsche epizootie 1948/49 Tierärztl. Umschau 5:401-407. Ref. Nov.1950. 41.8 T445
- 21150 GIRARD, G., CHEVALIER, A., and SEGOND, L. Agglutinations croisées tularémie-brucelloses; mise au point de la question. Inst. Pasteur Ann. 79:359-366. Oct. 1950. 44.8.3 An75
- 21151 GIRARD, H., and MACKOWIAK, C. Durée de l'immunité et vaccination de rappel en matière de fièvre aphteuse. Rev. d'Immunol. 14:271-278. 1950. 44.8 R323
- 21152 GIRARD, H., HIRTZ, J., and MACKOWIAK, C. De la notion de seuil en matière de fièvre aphteuse. Off. Internat. des Epizoot. B. 33:581-587. Nov./Dec.1950. 41.8 Of2
- 21153 GIUA, M. The question of castration. (In Italian.) Prog. Vet. 5:441-442,445. Aug.15/Sept.1,1950. 41.8 P942  
The veterinarian's responsibility.



- 21154 GREENE, J. E., and others. The indications and limitations of the medullary nail in small animals. *Cornell Vet.* 40:331-335. Oct.1950. 41.8 C81
- B. F. Hoerlein, W. N. Konde, and J. A. McBee, joint authors.
- 21155 HAMMOND, J. Measuring growth in farm animals. *Roy. Soc. London. Proc. Ser. B* 137:452-461. Nov.28,1950. 501 L84B
- 21156 HILBRIG, C. Arzt und züchter, der mann von morgen; ausblicks biologischer zuchtforschung. *Tierärztl. Umschau* 5:420-422. Nov.1950. 41.8 T445
- 21157 HOITINK, A. W. J. H. Is your bookcase up to the mark? VII. Physiology. (In Dutch.) *Hemera Zoa* 57:535-539. Aug.1950. 41.8 V51
- Livestock.
- 21158 HOPKIRK, C. The place of the veterinarian in meat production. (Condensed.) *So. African Vet. Med. Assoc. J.* 21:87-92. Sept.1950. 41.8 S08
- 21159 HUDDLESTON, I. F. Immunización contra la brucelosis con vacuna a cepa "Mucoide." (Sum.) *Buenos Aires y La Pampa* 107:24-26. Oct.1950. 9 B868
- 21160 HUGHES, C. E. Midwestern States join new move to whip Bang's. *Successful Farming* 48(12):39,92, 94-95. Dec.1950. 6 Sui2
- 21161 JOHNSON, H. Foot-and-mouth disease campaign in Mexico. *Vet. Med.* 46:5. Jan.1951. 41.8 M69
- Notes from an address.
- 21162 JOHNSON, H. N. Rabies control program of WHO. *Vet. Med.* 46:17-18. Jan.1951. 41.8 M69
- Notes from an address.
- 21163 KIRKSEY, G. Lack of trained inspectors is big problem as aftosa campaign enters critical stage. *Calif. Cattleman* 1950:13,16-17. Dec.1950. 43.8 C12
- Mexico.
- 21164 KIRKSEY, G. F. Four-year foot-mouth battle nears its climax in Mexico. *West. Farm Life* 53(Annu. Livestock Rev. 1951):194,198-199. Jan.1,1951. 6 R153
- 21165 KOLLER, R. Schilddrüse, thioracil und thyroproteine. III. *Wien. Tierärztl. Monatsschr.* 37:891-904. Ref. Dec.1950. 41.8 T345
- 21166 KRAUS, H. Einige für den tierarzt wichtige rechts- und fachbegriffe, erläutert an haftpflichtfällen aus dem hufschmiedgewerbe. Berlin. u. Münch. *Tierärztl. Wchnschr.* 1950:220-223. Oct.1950. 41.8 B45
- 21167 KUTTLER, A. K. Bovine, avian, and swine tuberculosis eradication. (Abs.) *Vet. Med.* 46:9-10. Jan. 1951. 41.8 M69
- 21168 LANGER, H. Das MKS-impfgerät, modell 'Freiburg'. *Tierärztl. Umschau* 5:393-396. Ref. Nov. 1950. 41.8 T445
- 21169 LANGHAM, W. H. Problems of the livestock industry created by atomic explosions. *Vet. Med.* 46:12-13. Jan.1951. 41.8 M69
- Notes from an address.
- 21170 LEONHARDT, H. Tierschutzgesetz und betäubung durch laien. Berlin. u. Münch. *Tierärztl. Wchnschr.* 1950:238-239. Nov.1950. 41.8 B45
- 21171 LIEBERMEISTER, K. Schlachthofepidemien durch Q-fieber. *Monatsh. f. Prakt. Tierheilk.* 2:237-242. Ref. 1950. 41.8 M74
- Outbreaks in Germany.
- 21172 LIEBMANN, H. Untersuchungen über die beziehungen tierischer darmparasiten zur bakterienflora. Berlin. u. Münch. *Tierärztl. Wchnschr.* 1950:220. Oct.1950. 41.8 B45
- 21173 LIEGEOIS, F. Responsabilité civile du médecin vétérinaire. *Ann. de Méd. Vét.* 94:481-502. Oct.1950. 41.8 An78
- 21174 LOCKHART, G. P. La aureomicina. Un nuevo antibiótico de notables propiedades terapéuticas. *Rev. de Med. Vet. [Montevideo]* 4:901-902. Mar./June 1949. 41.8 R327
- 21175 LUCAS, A., and others. La tularémie. *Rec. de Méd. Vét.* 126:519-534. Sept.1950. 41.8 R24
- Andral, Bouley, Paraf, and Quinchon, joint authors.
- 21176 MANARESI, C. On the subject of reforming our service. (In Italian.) *Prog. Vet.* 5:607-608. Nov.15, 1950. 41.8 P942
- 21177 MANGOSI, R. Salmonellosis of horses, cattle, and birds. (In Italian.) *Zooprofilassi* 5:352-354. July 1950. 41.8 Z72
- Report on papers by I. Altara and H. J. Field.
- 21178 MARTIN LOMENA, S. Parasitos internos del ganado; principales enzootias parasitarias. Spain. *Min. de Agr. Serv. de Capacitación y Propag. P. Manuales Téc.* 10,103 p. Ref. 1950. 15 Sp14
- 21179 MEYER, K. F. What is known about immunity to brucellosis. (Abs.) *Vet. Med.* 46:6-7. Jan.1951. 41.8 M69
- 21180 MICHIGAN STATE COLLEGE. SCHOOL OF VETERINARY MEDICINE. Report, 1950. East Lansing, 1950. 77 p. 41.9 M585
- 21181 MILLAN, J. M. De la veterinaria rural; las mancomunidades sanitarias y la realidad. *B. de Zootecnia* 6:278-281. Aug.1,1950. 41.9 S016
- 21182 MOKUZEN, H. Rinsho jui geka [Clinical veterinary surgery]. Tokyo, Chikyu Shuppan, 1949. 266 p. 41 M873
- 21183 MOORE, R. The fox rabies problem in the Southeastern States. *Auburn Vet.* 7:13-14,35-37. Fall 1950. 41.8 Aui1
- Source of rabies in man and livestock.
- 21184 MORA DAVILA, N. Los veterinarios, vanguardia del progreso. *Rev. Agr. y Ganad.* 12(128):8-9. Sept.1950. 9.4 R327
- 21185 MÜSSEMEIER. Die maul- und klauenseuche und ihre bekämpfung. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:95-97. Oct.1950. 18 D4822
- Russian Zone of Germany.
- 21186 NEW YORK STATE VETERINARY COLLEGE. Report for the year 1948-1949. Geneva, 1950. 236 p. 41.9 N482R
- 21187 NIGERIA. VETERINARY DEPT. Annual report for the year 1948. Lagos, 1950. 85 p. 41.9 N56
- 21188 NUZZI, A. F. Study of the organic field. (In Italian.) *Prog. Vet.* 5:460-461. Aug.15/Sept.1,1950. 41.8 P942
- Theory of disease in man and animals.
- 21189 OLIVA, G. El médico veterinario en la explotación ganadera. *Campo [Tacuba] (ser.2)* 18(703):71,74-76, 78. Sept.30,1950. 8 C157
- 21190 ORTIZ G., G. Comentario sobre las pelotas malas linfocitomas del ganado. *Agr. Costarricense* 8:388-389. Nov.1950. 8 Ag895
- 21191 OTAROLA SALCEDO, G. Investigación sobre la conservación del antígeno fijador del complemento del virus aftoso en soluciones reguladoras glicerofosfatadas en relación a su pH. *Gac. Vet.* 12:158-175. Ref. July/Aug.1950. 41.8 G112
- 21192 PARNAS, J., and STEPKOWSKI, S. Quelques notes sur la brucellose chez l'homme et chez l'animal. *Off. Internatl. des Epizoot.* B. 33:564-574. Nov./Dec. 1950. 41.8 Of2
- 21193 PETEK, M. The 1949 epizootic of foot-and-mouth disease in Venezia. (In Italian.) *Zooprofilassi* 5:466-472. Ref. Oct.1950. 41.8 Z72
- English summary.
- 21194 PONS MUZZO, J. La bilirrubinemia de los animales domésticos. *Cong. Peruano de Quim. Actas y Trab.* 1949(1):331-338. Ref. 385 C763
- 21195 PSCHORR, W. Zur entwicklungsgeschichte der Tierärztlichen Fakultät der Universität München. Berlin. u. Münch. *Tierärztl. Wchnschr.* 1950:198-202. Ref. Oct.1950. 41.8 B45
- 21196 PSCHORR, W. Zur neufassung des reichs-viehseuchengesetzes. Berlin. u. Münch. *Tierärztl. Wchnschr.* 1950:229-233. Nov.1950. 41.8 B45
- 21197 RAMON, G. General critical examination of the basic methods of immunization. (In Italian.) *Zooprofilassi* 5:502-508,511-512. Nov.1950. 41.8 Z72
- 21198 REDDING, R. W. Use of the through-and-through suture in disrupted surgical wounds. *No. Amer. Vet.* 31:820-821. Dec.1950. 41.8 N812
- 21199 REETZ, G. Stellungnahme zu einzelnen embryotomischen methoden und rückblick auf die entwicklung der drahtsägen-führungsinstrumente. *Tierärztl. Umschau* 5:409-412. Nov.1950. 41.8 T445
- 21200 REMLINGER, P., and BAILLY, J. Le traitement pasteurien et les travaux américains relatifs a la vaccination antirabique. *Rev. d'Immunol.* 14:291-298. Ref. 1950. 448.8 R323
- 21201 RENOUX, G. Prophylaxie des brucelloses; la vaccination préventive des animaux domestiques par le vaccin du C. R. F. O. *Rev. d'Immunol.* 14:279-290. Ref. 1950. 448.8 R323
- Centre de Recherches sur la Fièvre Ondulante, Montpellier.
- 21202 REUSS, U. Ein beitrag zur anwendung des pyrotherapeutikums "febrifer-vet". Berlin. u. Münch. *Tierärztl. Wchnschr.* 1950:180-182. Ref. Sept.1950. 41.8 B45
- 21203 RICE, C. E. The interchangeability of the complement components of different animal species. I. Literature survey. *Canad. J. Compar. Med.* 14:369-379. Ref. Dec.1950. 41.8 C162



- 21204 RODRIGUEZ, W. J. Mi ganado no llevó la aftosa a Venezuela. *Rev. Ganad. [Habana]* 10(12):21-24. Dec.1950. 49 R321
- 21205 ROF CODINA, J. Contribución al estudio de la producción láctea. *Cult. Mod.* 33:335-336. Sept. 1950. 15 C89  
Includes nutritive value of milk.
- 21206 RUBINI D., G., and BARÚA C., J. La glucemia de los animales domésticos. *Cong. Peruano de Quím. Actas y Trab.* 1949(1):339-343. 385 C763
- 21207 RUIZ MARTINEZ, C. La medicina veterinaria en la Edad Media. *Asoc. Argentina Criadores de Cerdos. Rev.* 29(339):23,25-27,29,31-35. Nov.1950. 46.9 As5
- 21208 RUIZ URBINA, H. Usos terapéuticos de la sulfametazina en la enfermedad de los animales domésticos. *Vida Agr. [Lima]* 27:837,839-840. Oct.1950. 9.8 V66
- 21209 SALVADOR, A. R. N. Enteritis. (In Portuguese.) *Vida Agr. [Lisboa]* 13(79):6-7. Sept./Oct.1950. 15.5 V66  
In livestock.
- 21210 SCHAFFER, J. D. A new approach to the management of ammonia dermatitis and related wounds. *Vet. Med.* 45:490-491. Dec.1950. 41.8 M69  
Tests with diaperene.
- 21211 SCHAFFER, J. D. Veterinary use of chlorophyll in tissue cell stimulation. *No. Amer. Vet.* 31:817-819. Dec.1950. 41.8 N812  
Treatment of wounds and injuries.
- 21212 SCHOENAERS, F. Voyage d'études vétérinaires au Congo Belge (juin-octobre 1949). *B. Agr. du Congo Belge* 41:1007-1046. Dec.1950. 24 K83
- 21213 SCHROEDER, C. R. Animal morbidity and mortality. *Vet. Med.* 46:26-27. Jan.1951. 41.8 M69  
Notes on committee report.
- 21214 SCHULTZE, E. S. Virus aftoso, su resistencia y productos biológicos contra la fiebre aftosa. *Soc. Antioqueña de Agr. B. Agr.* 364/369:3133-3146. Dec.1949/May 1950. 9.4 Sol
- 21215 SCHWARTZ, B. Parasitic diseases. *Vet. Med.* 46:29-30. Jan.1951. 41.8 M69  
Notes on committee report.  
Ectoparasites of cattle, sheep, and swine.
- 21216 SGAMBATI, A. Trichinosis in domestic and wild animals. (In Italian.) *Zooprofilassi* 5:354-362. (To be cont.) July 1950. 41.8 Z72  
Report on papers by H. Roth, A. A. Kingscote, and A. Trawinski.
- 21217 SHIDELER, F. J. Modern science saves live stock. *West. Live Stock* 36(5):26-27,146. Dec.1950. 49 W523
- 21218 SIMON, M. Mas carne para millones de personas. *Charla Rur.* 144:30-31. (To be cont.) Oct.1950. 9 C37  
Progress in veterinary medicine and discovery of new insecticides.
- 21219 SIMONPIETRI, R. H., and SAPHIR, B. Usted puede reconocer la enfermedad que afecta a sus animales. *Chacra* 21(241):16-17. Dec.1950. 9 C34
- 21220 SOBEK, V. Comments on the valuation of the biological test for the detection of genital infections. (In Czech.) *Časopis Českoslov. Vet.* 5:369-370. Aug.25, 1950. 41.8 C27
- 21221 SPINK, W. W. Undulant fever study begins with Bang's-infected animals. *South. Livestock J.* 10(6):10,92. Jan.1951. 43.8 F66A
- 21222 STABLEFORTH, A. W. Mortality and morbidity data in Britain. *Vet. Med.* 46:16-17. Jan.1951. 41.8 M69  
Notes from an address.
- 21223 STRAUPE, C. Über die anwendung des "sulfonaterpen" in der kleintierpraxis. *Tierärztl. Umschau* 5:371-373. Oct.1950. 41.8 T445
- 21224 TAVERNIER, H. Iodisme. *Rev. de Méd. Vét. [Toulouse]* 101:244-247. May 1950. 41.8 R32
- 21225 TENBROECK, C., and HERRIOTT, R. M. Mustard inactivated rabies vaccine. *Soc. Expt. Biol. & Med. Proc.* 75:523-528. Nov.1950. 442.9 Sol
- 21226 TORRENS PASTOR, A. Misión social del veterinario español. *Balearic Isl. Diputación Prov. B. de Agr.* 73:7. Oct.1950. 15 B19
- 21227 TREPEL. Betätigung und leistungen der tierärzte in der tierzucht. *Deut. Tierärztl. Wchnschr.* 57:349-355. Nov.1,1950. 41.8 C482  
Germany.
- 21228 TZSCHACHER, W. Truw-therapie und prophylaxe beim berufsekzem des tierarztes. *Tierärztl. Umschau* 5:373-375. Oct.1950. 41.8 T445
- 21229 UNION OF SOUTH AFRICA. MINISTRY OF HEALTH. Rabies: for the information of magistrates, district surgeons, veterinary surgeons, and local authorities. Pretoria,1950? 31 p. 448 So82
- 21230 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Invisible handits on the farm, by B. T. Simms, M. S. Shahan, and M. Bliss. Washington, 1951. 4 p. 1.914 R2R11  
Livestock diseases.
- 21231 UTAH. STATE AGRICULTURAL COLLEGE. EXTENSION SERV. Brucellosis must be eradicated! *Utah. State Agr. Col. Ext. B.* 203,4 p.-folder. May 1950. 275.29 Utl
- 21232 UTAH. STATE AGRICULTURAL COLLEGE. EXTENSION SERV. What is the cost of brucellosis to you? *Utah. State Agr. Col. Ext. B.* 202,4 p.-folder. June 1950. 275.29 Utl
- 21233 VAITSMAN, J. Tetanus of animals. (In Portuguese.) *Seleç. Agr.* 5(54):41-42. Oct.1950. 9.2 Se4
- 21234 VIANELLO, G. A powerful cheap anthelmintic, "sodium fluoride." (In Italian.) *Humus* 6(9):30. Sept. 1950. 16 H88
- 21235 VRIJBURG, B. Combatting contagious animal diseases in Indonesia. (In Dutch.) *Hemera Zoa* 57:590-594. Sept.1950. 41.8 V51  
English summary.
- 21236 WAGENER. Leptospirosen der haustiere. *Monatsh. f. Prakt. Tierheilk.* 2:248-249. 1950. 41.8 M74
- 21237 WESTHUES, M. Über die laparotomie bei grossen haustieren. *Berlin. u. Münch. Tierärztl. Wchnschr.* 1950:202-206. Oct.1950. 41.8 B45
- 21238 WEYERS, H. Oleum jecoris aselli stearinatum, eine neue salbengrundlage, ihre bedeutung und anwendung in der veterinärmedizin. *Berlin. u. Münch. Tierärztl. Wchnschr.* 1950:183-184. Sept.1950. 41.8 B45
- 21239 WILKINS, H. F. Foot-and-mouth disease. *Vet. Med.* 46:28-29. Jan.1951. 41.8 M69  
Notes on committee report.
- 21240 WILLE, R. Tierärztliche standespolitik-tiergesundheitspolitik. *Tierärztl. Umschau* 5:339-340. Sept.1950. 41.8 T445
- 21241 WINTER, A. Report on brucellosis eradication project. Washington, U. S. Bur. Anim. Indus.,1950. 4 p. 1.972 A2W73
- 21242 ZAVAGLI, V. Prevention of rabies. (In Italian.) *Zooprofilassi* 5:474-478. Oct.1950. 41.8 Z72

## MISCELLANEOUS

- 21243 ALBA, J. DE. La especialidad de zootecnia en Chapingo. *Tierra [Mexico]* 5:615-617. Nov.1950. 8 T445  
In education.
- 21244 BETTINI, T. M. The Lucknow international conference on livestock raising under tropical and sub-tropical conditions. (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 44:196-201. July/Sept.1950. 26 Ag82
- 21245 BIEDERMAN, H. Livestock shows; their influence on the development of the livestock industry. *Cattleman* 37(8):18-19,66,68,70,72. Jan.1951. 49 C29
- 21246 BYERLY, T. C., and others. New developments in animal husbandry and in the utilization, processing and preservation of animal products. *Inter-Amer. Conf. Agr. U. S. Paper* 4(13),18 p. Dec.1950. 5 In820A  
N. R. Ellis, O. G. Hankins, P. E. Howe, R. E. Hodgson, and E. O. Whittier, joint authors.
- 21247 DEMOLL, R. Zur wissenschaftlichkeit von instinkt und entwicklung. *Berlin. u. Münch. Tierärztl. Wchnschr.* 1950:209-211. Oct.1950. 41.8 B45
- 21248 DOMINGUES, O., and ABREU, J. DE. Viagem de estudos a Nhacolandia (relatório) [Study tour to Nhacolandia (report)]. *Brazil. Inst. de Zootecnia. P.* 3, 33 p. Dec.1949. 49.9 R472P  
Livestock industry in Mato Grosso, Brazil.
- 21249 HEIDENREICH, H., and FRIESEN, G. D. VON. Langstroh, häcksel, zerrissenes stroh und torf als einstreu. *Landtechnik* 5:784-789. (To be cont.) Nov.30, 1950. 58.8 L235
- 21250 HERMOS DE MENDOZA, A. Origen de los vocablos ganaderos castellanos. *Rev. Ganad. [Habana]* 10(12):39-43. (To be cont.) Dec.1950. 49 R321



21251 HIGGS, C. Reflections on the Smithfield Show. *Country Life* [London] 108:2078-2079. Dec.15,1950. 80 C83

Livestock and equipment.

21252 HVIDSTEN, H. Current problems in animal husbandry. (In Norwegian.) *Norsk Landbr.* 16:403-405. Oct.27,1950. 11 N8122

Scandinavia.

21253 KORKHAUS, R. Tierschutz in kultureller und volkswirtschaftlicher bedeutung. *Tierärztl. Umschau* 5: 447-451. Dec.1950. 41.8 T445

21254 LOBASHEV, M. E. A course in livestock raising (1836) by Vsevolod Vsevolodov. (In Russian.) *Priroda* 39(7):81-86. July 1950. 410 P933

21255 PERRY, G. S. What's in a name? Maybe your farm, too, is one where the pastures, the livestock—even the cattish—have acquired labels to fit their individual characteristics. *Country Gent.* 120(12):27,119. Dec.1950. 6 C833

21256 RUHL, D. M. We're ready to let livestock do the harvesting. *Ohio Farmer* 206(12):3,26. Dec.16,1950. 6 Oh3

Good herd building on a farm in Ohio and more grass for feed.

21257 RUIZ PRIETO, A. Para la historia del Madero de Córdoba. *B. de Zootecnia* 6:307-311. Sept.1, 1950. 41.9 S016

21258 SANCHEZ BELDA, A. Identificación animal. Spain. Min. de Agr. Serv. de Capacitación y Propag. P. *Manuales Téc.* 11,113 p. Ref. 1950. 15 Sp14

21259 TAYLOR, B. R. Registration headaches? We got 'em. *West. Farm Life* 53(Annu. Livestock Rev. 1951):34,42-43,45-46. Jan.1,1951. 6 R153

21260 TAYLOR, M. H. Livestock scales—maintenance, manipulation pose problems in Utah. *West. Livestock J.* 29(6):118-119,121-123,125. Dec.15, 1950. 6 F2278

21261 UBALDI, L. An honest agricultural livestock project; results of improvements made in the Strozzi di Bagnolo estate in Montemurlo. (In Italian.) *Allevatore* 6 (32/33):3. Aug.20,1950. 49 AL55

21262 WARNER, J. N. Report on the Dept. of Animal Husbandry & Dairying for 1949-50. *Allahabad Farmer* 24:176-184. Sept.1950. 22 AL5  
Allahabad Agricultural Institute.

## CATTLE

### Breeds and Breeding

21263 AMERICAN ABERDEEN-ANGUS BREEDERS' ASSOCIATION. 1950 annual report of the secretary. Chicago,1950. 10 p. 43.9 Am32Ra

21264 BALDUCCI, A. The "Calvana" breed and its uncertain future. (In Italian.) *Terra* [Firenze] 61(49):2. Dec.3,1950. 16 T274

Cattle.

21265 BAX, L. D. In 50 years of Herefords—Longhorns to Polled. *Rec. Stockman, Annu. Ed.* (1951)61(52): 227-228. Dec.28,1950. 49 D43

21266 BERTHELOM, M., and LARCHIER, H. Action de l'entozo sur les spermatozoïdes de taureau. *Rev. de Méd. Vét.* [Toulouse] 101:225-243. May 1950. 41.8 R32

21267 BLAUWHOF, W. G. Investigation of the inheritance of productive capacity of bulls in North Brabant. (In Dutch.) *Stamboeker* 32:141-142. Nov.9,1950. 43.8 V58

21268 BONADONNA, T. Experiments on the transport of seminal material of *Bos taurus* from the Americas to Italy, and vice versa. (In Italian.) *U. de la Repub. Facul. de Vet. An.* 5:165-179. 1948/49. 41.9 M764

21269 BONADONNA, T. Observation on the fertility rate in cows artificially bred towards end and after the termination of estrus. (In Italian.) *Zootec. e Vet.* 5:701-709. Aug.1950. 41.8 Z7

English summary.

21270 BONADONNA, T. The problem of artificial insemination and the Milan "Bull center." (In Italian.) *Cam. di Com. Indus. e Agr. di Milano. B. Econ. II. Studi e Statist.* 3(10):8-13. Oct.1950. 280.9 M587B

21271 BONADONNA, T. The Spallanzani Institute Bull Center for artificial insemination of cattle. (In Italian.) *B. dell'Agr.* 84(21):1-2. Nov.3,1950. 16 B87

21272 BONSMAN, J. C. *Ekologische veeteeltnavorsing en die toepassing daarvan tot instandhouding van 'n blywende veeteeltbedryf* [Ecological cattle breeding research and its application to the maintenance of a permanent cattle industry]. Union So. Africa. Dept. van Landbou. Wetenskaplike Pam. 307,23 p. Ref. 1950. 24 S084Sd

21273 BORGER, C. Producing registered Shorthorns. *Rec. Stockman, Annu. Ed.* (1951)61(52):179-180,182. Dec.28,1950. 49 D43

21274 BREMNER, J., and MCGRATH, B. The sire—the Jersey Islander's viewpoint. *Canad. Jersey Breeder* 5(12):13. Dec.1950. 43.8 C165

21275 BRIQUET JUNIOR, R., and ABREU, J. DE. Sobre o período de gestação nas raças zebuínas. I. Raça Guzerá [On the period of gestation in the Zebu races. I. Guzerat]. *Brazil. Inst. de Zootecnia. P.* 4,19 p. Ref. Dec.1949. 49.9 R472P  
English summary.

21276 BUTTON, D. J. Artificial breeding key to dairy herd improvement. *Iowa Agr.* 49(4):5-6. Nov.1950. 6 Io9

21277 CASTRO Y RAMIREZ, R. DE. El celo de las vacas. *Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr.* 12(189):28-29. July/Sept.1950. 8 R323

21278 CHITTENDEN, D. W. Hats off to 1950! It was a great Polled Hereford year. *Amer. Hereford J.* 41(17): 220,240. Jan.1,1951. 43.8 Am32

21279 CROSS, A. S. From grass to beef via the Shorthorn. *Rec. Stockman, Annu. Ed.* (1951)61(52):211, 213. Dec.28,1950. 49 D43

21280 DAY, D. I. My recollections of 40 years of Milking Shorthorn progress. *Milking Shorthorn J.* 32:52-54. Jan.1951. 43.8 M59

21281 EHRLICH, J. Eierstockskontrolle beim rind und ihre bedeutung für die besamung. *Tierärztl. Umschau* 5:440-444. Dec.1950. 41.8 T445

21282 ELLIS, H. W. Here's how to breed off the horns. *Amer. Hereford J.* 41(17):224-225,236. Jan.1, 1951. 43.8 Am32

21283 FERNANDEZ SALCEDO, L. La relatividad de la bravura de los toros. *Almanaque Agr. Ceres* 1951: 369-382. 1950. 15 AL6

21284 FITZGERALD, O. A. Weight-for-age breeder. *Oreg. Farmer* 73:829-830. Nov.16,1950. 6 Or32  
Cattle breeding.

21285 FOWLER, H. G. Superior sires—superior to what? *Canad. Jersey Breeder* 5(12):16,56-58. Dec.1950. 43.8 C165

21286 FRANKLIN, B. P. Consider the commercial man. *Rec. Stockman, Annu. Ed.* (1951)61(52):78. Dec.28, 1950. 49 D43

Breeding of beef cattle.

21287 FULSCHER, O. A complicated business. *Rec. Stockman, Annu. Ed.* (1951)61(52):57,64. Dec.28,1950. 49 D43

Breeding registered Herefords.

21288 GARBERG, E. Formalism and livestock breeding. (In Norwegian.) *Landbrukstidende* 56:807-808. Oct.11,1950. 11 L236

Cattle.

21289 GARCIA-FIERRO, B. F. Impresiones sobre el ganado vacuno, Rubio Gallego, presentado al Concurso Nacional. *Ganadería* [Madrid] 8:480-482. July 1950. 49 G15

21290 GARM, O. Current sterility problems in cattle. (In Norwegian.) *Produsenten* 18(11):9-12. Nov. 1950. 11 P94

21291 HALLE, K. Insemination. *Milking Shorthorn J.* 31(12):54-55. Dec.1950. 43.8 M59

21292 HAMLEN, F. How we made new friends and interested many persons. *Milking Shorthorn J.* 32:1-2. Jan.1951. 43.8 M59

21293 HAMMOND, J. Close breeding in practice. *Milk Bd. J.* 1:557-559. Oct.16,1950. 44.8 M5934

Cattle.

21294 HAZALEUS, M. H. Experimental design and procedure followed in cooperating with a regional beef breeding laboratory. *Reciprocal Meat Conf. Proc.* 3:79-85. 1950. 50.9 R24

Includes discussion.

21295 HENDRIKSE, J., and KAAAY, F. C. VAN DER. Results from various methods of artificial insemination. (In Dutch.) *Tijdschr. v. Diergeneesk.* 75:983-999. Dec. 15,1950. 41.8 T431

English summary.

Cattle.

21296 HERMAN, H. A., and RAGSDALE, A. C. Artificial insemination of dairy cows. *Mo. Agr. Expt. Sta. B.* 540,30 p. July 1950. 100 M693

21297 HIGNETT, S. L. Factors influencing herd fertility in cattle. *Vet. Rec.* 62:652-674. Ref. Nov.18, 1950. 41.8 V641

Includes discussions by D. W. Deas, J. Smith, H. W. Steele-Bodger and others.



- 21298 HOBSON, G. A 20th century agricultural marvel; British Friesians in 1910 and 1950. *Scot. Farmer* 58:1542. Dec.16,1950. 10 Sco8
- 21299 HOEKSTRA, P. Veeteeltproblemen in Indonesië gezien in het licht der historie [Cattle breeding problems in Indonesia seen in the light of history]. Groningen, Wolters, 1950. 27 p. 43 H676
- 21300 IPSEN, E. J. Keeping herdbooks for cattle in Holland. (In Danish.) *Dansk Landbr.* 69:598-600. Nov. 23, 1950. 280.28 V91
- 21301 ISHIHARA, M. Studies on the undesirable recessive genes in Japanese breed of cattle. (In Japanese.) *Japan. Zootech. Expt. Sta. Res. B.* 58,78 p. Ref. Jan.1950. 49.9 J272  
English summary.
- 21302 KAISER, F. Zur sterilitätsbekämpfung. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:236-238. Nov.1950. 41.8 B45  
Cattle.
- 21303 KAY, H. D. Milk recording and breeding of dairy cattle. *Nature [London]* 166:1066-1067. Dec.23, 1950. 472 N21
- 21304 KINNEY, P. New beef from grade dairy cows. *Breeder's Gaz.* 116(2):8,42. Feb.1951. 49 B74  
Breeding low-production cows with Angus bulls.
- 21305 LAARHOVEN, VAN. Red and White bulls for artificial insemination in North Brabant. (In Dutch.) *Stamboeker* 32:141-142. Nov.9,1950. 43.8 V58
- 21306 LABEN, R. C. A study of genetic factors affecting milk production in a selected Holstein-Friesian herd. *Mich. U. Microfilm Abs.* 10(4):50-51. 1950. 241.8 M58
- 21307 LAMB, I. H. Thinking on paper. *Guernsey Breeders' J. [London]* (n.s.) 4(4):43-45. Winter 1950. 43.8 G932  
Breeding of dairy cattle.
- 21308 MCCARTHY, D. Herefords capture public favor. *West. Farm Life* 53(Annu. Livestock Rev. 1951):35-37. Jan.1,1951. 6 R153
- 21309 MACMILLAN, M. L. The Guernsey breed of British dairy cattle. (In Portuguese.) *Seleç. Agr.* 5(54):31-36. Oct.1950. 9.2 Se4
- 21310 MACMONNIES, W. Island impressions. *Jersey B.* 69:2040-2041,2079. Dec.25,1950. 43.8 J48
- 21311 MAIER, K. Gedanken zur auswahl der zucht-käiber. *Bad. Landwirt. Wehnl.* 117:799. Nov.18,1950. 18 B142
- 21312 MASSE, A. Améliorer la production laitière dans la race bovine Charolaise. *Acad. d'Agr. de France. Compt. Rend.* 36:520-522. July 5,1950. 14 P215Bc
- 21313 MEREGALLI, A. Hornless cattle. (In Italian.) *Riv. di Zootec.* 23:327-328. Oct.1950. 49 R52
- 21314 MESSERSMITH, F. E. Why make good cattle better? *Ariz. Cattlelog* 6(2):22. Oct.1950. 43.8 Ar42
- 21315 MILBURN, J. Producing Angus in the West. *Rec. Stockman, Annu. Ed.* (1951)61(52):149-150. Dec.28, 1950. 49 D43
- 21316 MILLER, L. D. Angus association survey tells why cattlemen like the Blacks. *West. Farm Life* 53(Annu. Livestock Rev. 1951):184,190. Jan.1,1951. 6 R153
- 21317 MOLESWORTH, R. B. A start with Welsh Blacks. *Field* 196:672-673. Oct.21,1950. 10 F45
- 21318 NBLER, C. W. Artificial insemination improves dairy herds. *Milkman* 1950:1. Nov.1950. 44.8 M5962
- 21319 NICHOLS, I. E. What's behind a Guernsey? *Guernsey Breeders' J. [Peterborough]* 80:1359-1361. Dec.1,1950. 43.8 G93
- 21320 ORENSANZ, J. El ganado vacuno Hereford en el Concurso de Ganados de la I Feria Nacional del Campo. *Ganadería [Madrid]* 8:474-476. July 1950. 49 G15
- 21321 ØSTERGAARD, P. S. Undersøgelser vedrørende Jerseykvaegets vægt, mål og ydelse. Investigations concerning weight, measures and yield of Jersey cattle. *Denmark. Stat. Husdyrbrugsudv. Forsøgslab. Beret.* 251,47 p. 1950. 104 D41  
English summary.
- 21322 PATTRIDGE, P. V. Polled [Hereford] popularity. *Rec. Stockman, Annu. Ed.* (1951)61(52):215,217. Dec.28,1950. 49 D43
- 21323 POMEROY, R. W. Bull management and fertility. *Farming* 4:374-375,378. Dec.1950. 10 F2236
- 21324 POWELL, S. M. Are Milking Shorthorns practical? *Milking Shorthorn J.* 32:17,31. Jan.1951. 43.8 M59
- 21325 PRIETO, R. Crianza de ganado Cebú en Cuba, como fuente fabulosa de riqueza. *Rev. Ganad. [Habana]* 10(12):36-37,48. Dec.1950. 49 R321
- 21326 RICH, L. H., and others. Artificial breeding of dairy cattle in Utah. *Utah. State Agr. Col. Ext. B.* 204, 18 p. June 1950. 275.29 U11  
L. R. Hunsaker, W. Binns, and G. B. Caine, joint authors.
- 21327 RICHARDSON, T. C. Higher beef profits are main goal in creating new cattle breeds. *Farmer-Stockman* 53(12):44-45. (To be cont.) Dec.1950. 6 Ok45
- 21328 ROALKVAM, G. T. Keeping bulls. (In Norwegian.) *Buskap og Avdratt* 1950(4):39,41-42. 49 B96
- 21329 RUFIN, G. Taureaux reproducteurs et insémination artificielle. *Jura Agr. (n.s.)* 65:1. Dec.15, 1950. 14 J97
- 21330 RUIZ DIAZ, I. M. El ganado Cebu. *Rev. de Agr., Com. e Indus. [Panama]* 8(110):26-27. Oct.1950. 8 R3291
- 21331 SAXENA, H. C. The Red Sindhi herd of the Allahabad Agricultural Institute. *Allahabad Farmer* 24:193-206. Sept.1950. 22 AL5
- 21332 SCHLEBACH, C. El método de inseminación artificial. *Tierra [Mexico]* 5:541-543. Oct.1950. 8 T445  
Cattle.
- 21333 SCHREIBER, G. Beitrag zur frage der unfruchtbarkeit des rindes. *Tierärztl. Umschau* 5:356-357. Oct.1950. 41.8 T445
- 21334 SEVERSON, H. Breed for low-cost milk. *Successful Farming* 48(12):116,118-119. Dec.1950. 6 Su12
- 21335 SEYMOUR, E. Y. The Guernsey in New South Wales. *Guernsey Breeders' J. [London]* (n.s.) 4(4):51-52, 55-56. Winter 1950. 43.8 G932
- 21336 SORENSSEN, E., and HANSEN, K. Forsøg over avlstysres fodring og brug [Experiments in feeding and use of bulls]. *Denmark. Stat. Husdyrbrugsudv. Forsøgslab. Beret.* 249,45 p. 1950. 104 D41
- 21337 SPÖRRI, H. Hormontherapie in der bekämpfung der unfruchtbarkeit des rindes. *Tierärztl. Umschau* 5:311-317. Ref. Sept.1950. 41.8 T445
- 21338 STEWART, D. L., MELROSE, D. R., and WILSON, W. R. The effect of reducing the quantity of egg yolk in bovine semen diluents. *Vet. Rec.* 62:617-618. Nov.4,1950. 41.8 V641
- 21339 TALLARICO, G. The "milk factor" and its zootechnical utilization. (In Italian.) *Allevatore* 6(38):1. Sept.24,1950. 49 AL55  
Genetic factor for milk production in cattle.
- 21340 TAUSSIG, W. Herefords and Colorado. *Rec. Stockman, Annu. Ed.* (1951)61(52):68. Dec.28,1950. 49 D43
- 21341 TOMSON, C. K. Shorthorn performance counts. *West. Farm Life* 53(Annu. Livestock Rev. 1951):143,146-147. Jan.1,1951. 6 R153
- 21342 TOMSON, C. K. Shorthorn prestige—as I see it. *Rec. Stockman, Annu. Ed.* (1951)61(52):76-77. Dec.28, 1950. 49 D43
- 21343 TREML, F. Erfahrungen bei der fruchtbarkeitskontrolle der rinder. *Tierärztl. Umschau* 5:435-440. Dec.1950. 41.8 T445
- 21344 TURNER, J. Why a record year in Herefords. *Rec. Stockman, Annu. Ed.* (1951)61(52):109-110. Dec.28, 1950. 49 D43
- 21345 TYNER, C. Are we breeders or cattle multipliers? *Milking Shorthorn J.* 32:8,10. Jan.1951. 43.8 M59
- 21346 UBE, Y. Wagyu no shinsa [Judging Japanese black breed of cattle]. *Tokyo, Asakura Shoten*, 1949. 136 p. 43 Ub32
- 21347 VASSEUR, A., and BELLE, G. Le lait devant la justice; contribution à l'étude des laits de vaches de race Hollandaise produits au Maroc. *Terre Marocaine* 24:400-402. Oct.1950. 24 T44
- 21348 WEHNER, A. Ein zuchtverband feiert 50 jähriges bestehen. *Tierärztl. Umschau* 5:332-336. Sept. 1950. 41.8 T445  
Zuchtverband für Fleckvieh in Niederbayern.
- 21349 WELLS, O. N. Outcrossing—a major factor in breed improvement. *Canad. Ayrshire Rev.* 31:289-290. Jan.1951. 43.8 Ay72  
Account of an address, as reported by D. C. Morton.
- 21350 WHITE, H. El ganado "Shorthorn." *Agr. Venezol.* 15(145):36-39. Aug.1950. 9.95 Ag8
- 21351 WILLE, R. Zur frage der unfruchtbarkeitsveranlagung bei weiblichen rindern. *Tierärztl. Umschau* 5:418-420. Nov.1950. 41.8 T445



- 21352 WOLF. Ausdehnung der qualitätszucht, insbesondere auch im Oberallgäu. Allgäuer Bauernbl. 18:706-707. Nov.30,1950. 18 AL53  
Cattle.
- 21353 WRIGHT, N. Some modern cattle breeding methods. Canad. Cattlemen 14:20-21. Jan.1951. 49 C16
- 21354 WYLIE, D. C., JR. Another step farther in Guernsey business. Guernsey Breeders' J. [Peterborough] 80:881-882. Nov.1,1950. 43.8 G93  
The Chester Cooperative Breeding Association.
- 21355 YUILL, W. J. Development of Maxon Jersey stud. Austral. Farm & Home 59(11):82,85. Nov.1,1950. 23 Au7

#### Feeds and Feeding

- 21356 ANDERSON, E. E. Dairy feeding economy important to profitable production of milk. N. Mex. Stockman 16:52-53. Jan.1951. 49 N462
- 21357 ANDERSON, J. Supplementing irrigated pasture; profitable [beef cattle] feeding trial increases carrying capacity and turnover for Californian. West. Livestock J. 29(6):55,127,129. Dec.15,1950. 6 F2278
- 21358 BALLARD, S. R. Improved butter production on the Richmond River; carefully planned feeding practices give good results. Agr. Gaz. N. S. Wales 61:527-529. Oct.2,1950. 23 N472
- 21359 BARBORIAK, J., and SCHURCH, A. Bericht über einen vergleichenden milchviehfütterungsversuch mit koksextraktionsschrot und kokspresskuchen. Landwirt. Jahrb. der Schweiz 64:863-886. Ref. 1950. 17 L23
- 21360 BLAKEMORE, F., and VENN, J. A. J. Conditions associated with hypocoephaemia of bovines in East Anglia. Vet. Rec. 62:756-761. Dec.9,1950. 41.8 V641
- 21361 BLAXTER, K. L. Energy feeding standards for dairy cattle. Nutr. Abs. & Rev. 20:1-21. Ref. July 1950. 389.8 N95
- 21362 BREIREM, K. Feeding of the cattle this year. (In Norwegian.) Norsk Landbr. 16:395-400. Oct.27,1950. 11 N8122
- 21363 CULBERTSON, C. C. Molasses feeding tests. Flour & Feed 51(7):26. Dec.1950. 298.8 F66  
Cattle and sheep.
- 21364 DAY, C. Three centuries with Maine cattle. XXX. Balancing rations. Maine Farm Bur. News 5(10):28. Dec.1950. 275.293 M28
- 21365 DEITEMEYER, C. These 4-Hrs feed for profit. Nebr. Farmer 92(23):1,22. Dec.2,1950. 6 N27  
Feeding beef calves.
- 21366 DOBERT. Korea and the milk; abstimmung der futterproduktion mit dem umfang der kuhhaltung. Unser Milchvieh. Ausg. B/C 2(10):2. Oct.1950. 43.8 Un72  
Effects of the war on dairy industry in Germany.
- 21367 DOWNHAM, K. D. Calves need green food; more attention to simple details in management and feeding, including the provision of fresh grass early in life would reduce calf losses in the dairy herds of this country. Farmer & Stock-Breeder Ybk. 1951:71-72. 49 F22
- 21368 DUCK, R. W. Good beef with little grain. Rural New-Yorker 100:830,838. Dec.2,1950. 6 R88
- 21369 DUCK, R. W. Live stock and dairy; winter feed feeds for dairy cows. Rural New-Yorker 100:860,862. Dec.16,1950. 6 R88
- 21370 DYRENDahl, S. Long term experiments with iodinated casein for cattle and swine. (In Swedish.) Buskap og Avdrätt 1950(4):51-53. 49 B96
- 21371 FARRAR, L. D. Salt prevents overeating of free choice protein. Breeder-Stockman 12(8):58. Jan. 1951. 49 V81  
Beef cattle.
- 21372 FERGUSON, J. Tests show surprising results in regard to pasture rotation; continuous grazing proves almost equal in results. Polled Hereford Mag. 8(8):27,29. Jan.1951. 49 P69
- 21373 FREDERIKSEN, A. M. Feeding of cows. (In Danish.) Dansk Landbr. 69:618-619. Dec.7,1950. 280.28 V91
- 21374 GARBERG, E. Winter feeding of dairy cattle. (In Norwegian.) Landbrukstidende 56:927-931. Nov.22, 1950. 11 L236
- 21375 GORBACHEVA, A. P. Digestibility of nitrogenous substances and diamino acids in ration of cows and their utilization in milk synthesis. (In Russian.) Vsesoizn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(9):42-48. Ref. 1950. 20 Ak1
- 21376 GROOT, T. DE. Big or small cows. (In Dutch.) Tijdschr. v. Diergeneesk. 75:945-954. Dec.1, 1950. 41.8 T431  
English summary.  
By means of theoretical consideration an attempt was made to determine whether big cows or small ones need more feed per kilogram of milk produced.
- 21377 GUTKNECHT, H. Die winterfütterung 1950/51. Schweiz. Zentbl. f. Milchwirt. 39:271-272. Nov.24,1950. 44.8 Sch93  
Also in Schweiz. Bauer 104(137):3,(140):5. Nov.24, Dec.1,1950. 17 Sch95
- 21378 HANEBUT. Zuckerrübenblatt als wertvolles futter; auf keinen fall mehr als 120 pfd frischblatt pro grossvieheinheit. Unser Milchvieh. Ausg. B/C 2(10):3. Oct.1950. 43.8 Un72
- 21379 HARRIS, L. E., and others. Crested wheatgrass [Agropyron cristatum] provides excellent spring pasture for beef cattle. Farm & Home Sci. [Utah Sta.] 11:71,93-94. Dec.1950. 100 U11F  
N. C. Frischknecht, G. Stewart, J. A. Bennett, and H. K. Woodward, joint authors.
- 21380 HELMBERG, A. Raising of calves for veal. (In Swedish.) Lantmannen 34:907-908. Nov.25,1950. 11 L234  
Feeding.
- 21381 HILNER, R. Alimentación de la vaca lechera. Agr. Austral 18:406-407. Sept.1950. 9.3 Ag842
- 21382 HOOPER, G. H. Stall feeding yearling steers for market. Past. Rev. 60:1072-1073. Oct.16,1950. 23 Au75
- 21383 HOPKINS, W. Don't wait until Christmas; if you have cattle on the range, don't wait until Christmas to start feeding. Range grasses start dropping in nutritive value long before Christmas. Prog. Farmer, Miss.-Ark.-La. Ed. 65(12):17. Dec.1950. 6 So81
- 21384 HORTON, C. R. Deferred grazing of irrigated pastures can provide feed growths for winter. Calif. Cattleman 1950:20-21. Dec.1950. 43.8 C12
- 21385 HVIDSTEN, V. H., WESTGAARD, P., and BRIEREM, K. Feeding and health in some herds in Eastern Norway during the winter 1948-49. (In Norwegian.) Tidsskr. f. det Norske Landbr. 57:129-157. Ref. May/June 1950. 11 T433  
English summary.  
Dairy cattle.
- 21386 JARL, F. Winter feeding of cattle. (In Swedish.) Lantmannen 34:867-869. Nov.11,1950. 11 L234
- 21387 JONES, M. Secret of more food from grass: don't make hay. Dairy Farmer [Ipswich] 23(12):11. Dec.1950. 44.8 D1414  
Cutting of grass in the leafy stage rather than allowing it to mature for hay.
- 21388 KEHR, H. Ist die fütterung vollwertig? Kontrollangestellte, p. 1. In Unser Milchvieh Ausg. B/C 2(9). Sept.1950. 43.8 Un72
- 21389 KEITH, T. B., JOHNSON, R. F., and FRIBERG, W. R. Stall equipment for experimental steer feeding. Agr. Engin. 31:622. Dec.1950. 58.8 Ag83
- 21390 KITCHEN, J. B. Cow-hay burners or grain burners. Jersey B. 69:2044,2081-2083. Dec.25,1950. 43.8 J48
- 21391 LINDLEY, C. E., and others. Winter rations for beef cattle in western Washington. Wash. Agr. Expt. Sta. C. 98,2 p. Apr.1950. 100 W27S  
B. H. Schneider, N. Dickson, and A. G. Law, joint authors.
- 21392 LOOSLI, J. K. Fluid milk substitutes for dairy calves. N. Y. Agr. Col. Ext. Cornell Feed.Serv. 29:8-9. Nov.1950. 275.29 N48Cf
- 21393 LOOSLI, J. K., and WALLACE, H. D. Influence of APF and aureomycin on the growth of dairy calves. Soc. Expt. Biol. & Med. Proc. 75:531-533. Nov.1950. 442.9 So1
- 21394 MACK, M. Schafft langsamen uebergang zur winterfütterung! Württemb. Wchnbl. f. Landwirt. 117:967. Oct.21,1950. 18 W96  
Dairy cattle.
- 21395 MCNULTY, G. Grass silage dairyman. Utah Farmer 70:329. Nov.16,1950. 6 D45
- 21396 MARION, P. T., JONES, J. H., and FISHER, C. E. Cattle feeding studies at the Spur Station, 1949-50. Tex. Agr. Expt. Sta. Prog. Rpt. 1297,5 p. Nov.29,1950. 100 T31P



- 21397 MAYNARD, E. J. Beets & meat. A practical manual for fattening cattle and sheep on irrigated farms of the intermountain area where sugar beet by-products provide one of the principal sources of low-cost fattening feed. Rev. ed. Through Leaves 1950 (spec. no.), 85 p. Sept./Oct. 1950. 66.8 T41
- 21398 MONTGOMERY, G. A. Safer method of making beef; these Iowa feeders get year-round pasturage from silos so they don't need a wide margin to make a profit. Capper's Farmer 62:19,31. Jan. 1951. 6 M693
- 21399 MOORE, L. A. Feeding grass silage to dairy cattle. Guernsey Breeders' J. [Peterborough] 80:1357-1358, 1400-1402. Dec. 1, 1950. 43.8 G93
- 21400 MORREY, J. S. Grass and the cow. VI. Home Farmer 17(11):7-9. Nov. 1950. 280.344 H75
- 21401 NEUMANN, F. Niedrige erzeugungskosten durch richtige fütterung. Unser Milchvieh Ausg. B/C 2(9):5-6. Sept. 1950. 43.8 Un72
- 21402 NIBLER, C. W. Feed those dairy calves right! Nebr. Farmer 92(23):38. Dec. 2, 1950. 6 N27
- 21403 PATERSON, R. Problems of management. 6. Pastures are measured in gallons. Farmers Wk. [London] 33(23):55. Dec. 8, 1950. 10 F2226
- 21404 PISTOR, W. J. Arizona experiments show how high salt intake affects cows. West. Farm Life 53(Annu. Livestock Rev. 1951):74,78. Jan. 1, 1951. 6 R153
- 21405 POULSEN, J. F. Ensilage, silage and its effect on dairy products. (In Danish.) Dansk Landbr. 69: 627-629. (To be cont.) Dec. 14, 1950. 280.28 V91
- 21406 REYNOLDS, F. Roosevelt County ranchers get amazing results on weeping lovegrass pastures. (Condensed.) N. Mex. Stockman 15(12):22-23. Dec. 1950. 49 N462 Cattle.
- 21407 RICKARD, J. A. Mineral supplement for cattle. Your Farm 9(12):50-52. Dec. 1950. 6 Y8
- 21408 RIGGS, J. K., COLBY, R. W., and PARHAM, A. P. Hydraulic-processed versus solvent-extracted cottonseed meal for wintering beef cows. Tex. Agr. Expt. Sta. Prog. Rpt. 1299, 3 p. Dec. 8, 1950. 100 T31P
- 21409 SCHULZ, W. G. Molasses, profitable feed for dairy cows. West. Dairy J. 7(3):9,30-31. Jan. 1, 1951. 44.8 W524
- 21410 SMITH, S. E., and others. Salt studies with dairy cattle. N. Y. Agr. Col. Ext. Cornell Feed Serv. 29: 7-8. Nov. 1950. 275.29 N48Cf
- P. D. Aines, F. W. Lengemann and K. L. Turk, joint authors.
- 21411 STREET, A. G. She who pays the piper. Farmers Wk. [London] 33(24):47. Dec. 15, 1950. 10 F2226 Feeding dairy cattle and reasons for higher milk prices.
- 21412 TOGNOCCHI, L. Mountain pastures for cattle in the Province of Milan. (In Italian.) Allevatore 6(43):7. Oct. 29, 1950. 49 AL55
- 21413 TURK, K. L. Careful grain feeding necessary to maintain high milk production. Dairyman's League News 34(25):6-7. Dec. 12, 1950. 44.8 D1432
- 21414 WÄCHLI, E. Fehler bei der milchviehfütterung. Grüne 78:1248-1249. Nov. 17, 1950. 17 Sch9
- 21415 ZIMMERMANN, J. Kälberaufzucht mit magermilchränke. Unser Milchvieh Ausg. B/C 2(10):6. Oct. 1950. 43.8 Un72
- Veterinary Medicine
- 21416 AEHNELT, E. Ein umfangreiches hautemphysem bei einer kuh. Deut. Tierärztl. Wchnschr. 57: 363-364. Nov. 15, 1950. 41.8 C482
- 21417 ARMISTEAD, W. W. Rumensotomy today. No. Amer. Vet. 32:2,4,6. Jan. 1951. 41.8 N812 Cattle.
- 21418 BAIER, W. Die chloroformnarkose als hilfsmittel zur untersuchung und behandlung von vorhaut und penis beim bullen. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:206-208. Oct. 1950. 41.8 B45
- 21419 BAKKER, S. Combatting tuberculosis among cattle in veterinary practice. (In Dutch.) Hemera Zoa 57: 522-534. Aug. 1950. 41.8 V51 English summary.
- 21420 BARKER, C. A. V. The modified Caslick operation in the handling of chronic prolapse of the vagina [in cows]. Canad. J. Compar. Med. 14:380-382. Dec. 1950. 41.8 C162
- 21421 BARRON, N. Mastitis control today. Milk Indus. 31(6):46-48. Dec. 1950. 44.8 M593
- 21422 BARTLETT, D. E. What can be done about bovine venereal trichomoniasis today? Guernsey Breeders' J. [Peterborough] 80:829-830, 871. Nov. 1, 1950. 43.8 G93
- 21423 BASSET, J. Vaches laitières et B. C. G. Rev. de Path. Compar. 50:539-540. July 1950. 44.8 R326 English summary.
- 21424 BAUER, H., and KÜBITZ, H. Rinderlecksucht als düngungs- und fütterungsproblem. Monatsh. f. Prakt. Tierheilk. 2:217-237. Ref. 1950. 41.8 M74
- 21425 BELTRAN MONFERRER, J. M. Zoonosis transmisibles a la especie humana: las mamitis de las hembras lecheras. II. Cóm. Sind. Agr. de Barcelona. B. 5:258-260. Oct. 1950. 15 C14
- 21426 BERARDUCCI, C. Some causes of abortion in the cow (exclusive of Brucella and Trichomonas abortion.) (In Italian.) Zootec. e Vet. 5:662-667. Aug. 1950. 41.8 Z7
- 21427 BERTHELOM, M., TOURNUT, J., and LARCHIER, H. Observations sur le tolérance aux injections de tyrothricine chez la vache. Rev. de Méd. Vét. [Toulouse] 101:182-194. Apr. 1950. 41.8 R32
- 21428 BLENDINGER, W. Die fremdkörperoperation am rind mit wechselschnitt. Tierärztl. Umschau 5:452-453. Dec. 1950. 41.8 T445
- 21429 BLOOD, D. C., and SAUNDERS, L. Z. Cerebral abscess in a calf. Cornell Vet. 40:336-345. Oct. 1950. 41.8 C81
- 21430 BONADONNA, T. Jugements pour le diagnostic de la gestation dans l'application de l'insémination artificielle. Rec. de Méd. Vét. 126:513-518. Sept. 1950. 41.8 R24 Cattle.
- 21431 BONSMMA, J. C. Why many heavy milkers die at a comparatively young age. Farmer's Wk. [Bloemfontein] 80:43,45. Oct. 25, 1950. 24 F225
- 21432 BORG, H. TER. The plan for controlling cattle tuberculosis in the Province of Groningen. (In Dutch.) Groninger Landbbl. 28(42):12. Oct. 28, 1950. 12 G892
- 21433 BOSTICCO, A. Some contribution to the knowledge on the composition and functional meaning of the cervical mucous secretion of cows in estrus. (In Italian.) Zootec. e Vet. 5:668-673. Aug. 1950. 41.8 Z7 English summary.
- 21434 BOYD, A. G. Brucellosis vaccination program. (Sum.) Calif. Vet. 4(2):12. Nov./Dec. 1950. 41.8 C12 Cattle.
- 21435 BOYD, W. L. Retention of the fetal membranes in the cow. M. S. C. Veterinarian 11:14-16. Fall 1950. 41.8 M582
- 21436 BRAAK, A. J. Lepra bubalorum. (In Dutch.) Hemera Zoa 57:451. Aug. 1950. 41.8 V51 In buffalo.
- 21437 BREGANTE, L. J., and MATA, E. LA. Mastzellen en neurohipofisis de bovino. U. de la Repúb. Facul. de Vet. An. 5:265-266. 1948/49. 41.9 M764
- 21438 BROSE, C. P. Pertinent points in the control of mastitis in dairy cattle. Wash. Agr. Expt. Sta. C. 108, 5 p. Aug. 1950. 100 W275
- 21439 BROUGHTON, A. How to find 185,000 cows; ring test a big help in spotting that many Bangs reactors in State. Wis. Agr. & Farmer 78(1):6. Jan. 6, 1951. 6 W751
- 21440 BUSS, W. Die serologische diagnose der rindertuberkulose mit angetrocknetem blut, bzw. angetrocknetem blutserum. Lebensmitteltierarzt 1:97-101. July 1950. 41.8 I49
- 21441 CAMPBELL, B., PORTER, R. M., and PETERSEN, W. E. Plasmacytosis of the bovine udder during colostrum secretion and experimental cessation of milking. Nature [London] 166:913. Nov. 25, 1950. 472 N21
- 21442 CAMPBELL, D. Traumatic abomasitis [in cattle]. Vet. Rec. 62:761-763. Dec. 9, 1950. 41.8 V641
- 21443 CARLSTROM, B. Deficiency diseases, particularly acetonaemia in cattle. Vet. Rec. 62:717-728. Ref. Dec. 2, 1950. 41.8 V641 Includes discussion.
- 21444 CARR, A. K. California brucellosis control program reaches new high in first half of year. Calif. Cattleman 1950:19. Dec. 1950. 43.8 C12
- 21445 CARRILLO DE ALBORNOZ LUBIÁN, J. Penta-dactilia con inversión tibial en un ternero. B. de Zootecnia 6:273-274. Aug. 1, 1950. 41.9 S016
- 21446 DALLING, T. Clearing herds of tuberculosis. Times Survey Brit. Agr. 1950:12. Oct. 1950. 10 T48
- 21447 DE LOUISE, W. J. Rapid growth-development of heifers from birth to breeding age affects production. West. Dairy J. 7(3):49-50. Jan. 1, 1951. 44.8 W524
- 21448 DIERNHOFER, K. Diagnostik der euterenzündungen. Wien. Tierärztl. Monatsschr. 37:809-866. Ref. Dec. 1950. 41.8 T345



- 21449 DRURY, A. R. Dealing with [dairy] mastitis on the farm. Mich. Agr. Expt. Sta. Q. B. 33:179-183. Nov. 1950. 100 M58S
- 21450 EGGERS, G. Für und wider die zweiphasentheorie der milchbildung. Milchwissenschaft 5:390-391. Ref. Nov.1950. 44.8 M5933  
English summary.
- 21451 EIELAND, E. Trimming of hoofs. (In Norwegian.) Landbrukstidende 56:808-809. Oct.11,1950. 11 L236  
Cattle.
- 21452 EISSNER, G. Die bedeutung der wertbemessung des tuberkulins für den nachweis der rindertuberculose. Monatsh. f. Prakt. Tierheilk. 2:208-217. Ref. 1950. 41.8 M74
- 21453 FAIX, R. Hydrocephalia congenita bei einem kalb. Tierärztl. Umschau 5:407-408. Nov.1950. 41.8 T445
- 21454 FERGUSON, L. C., BOHL, E. H., and INGALLS, W. L. Listeria monocytogenes associated with bovine abortion. Amer. Vet. Med. Assoc. J. 118:10-11. Jan. 1951. 41.8 Am3
- 21455 FIENNES, R. N. T. W. The cattle trypanosomiasis: cryptic trypanosomiasis. Ann. Trop. Med. & Parasitol. 44:222-237. Ref. Oct.1950. 44.8 L75A
- 21456 FORD, E. J. H. A case of displacement of the bovine abomasum. Vet. Rec. 62:763-764. Dec.9,1950. 41.8 V641
- 21457 FOREHAND, E., and KOGER, M. Cancer eye takes heavy toll in cattle. N. Mex. Stockman 16:44,58. Jan.1951. 49 N462
- 21458 FROMM, G. Positive intrakutane tuberkulinreaktionen und unspezifische hautschwellungen beim rind. Schweiz. Arch. f. Tierheilk. 92:695-705. Nov.1950. 41.9 Sch9  
English summary.
- 21459 GALLI, A. Current findings on rumenotomy in cattle (from a demonstration lecture in operative surgery). (In Italian.) Prog. Vet. 5:506-507,509-510,513. Sept.15,1950. 41.8 P942
- 21460 GARNER, R. J. Aspiration biopsy of the liver in cattle. Vet. Rec. 62:729-730. Dec.2,1950. 41.8 V641
- 21461 GAY, C. W. Nature gives the beef cow proper milk equipment. Amer. Hereford J. 41(17):74. Jan.1, 1951. 43.8 Am32  
Physiology of lactation.
- 21462 GEROSA, G. Malattie degli arti dei bovini [Diseases of the joints of cattle]. Ed. 2. Varese,Istituto Editoriale Cisalpino,1949. 342 p. 41 G31M
- 21463 GHIVER, C. Contra la tuberculosis del ganado. Pampa Argentina 23(276):10. Nov.1950. 9 P19  
Cattle.
- 21464 GIBBONS, W. J. Pointers for practitioners. Auburn Vet. 7:23-24. Fall 1950. 41.8 Aul  
Bovine mastitis; parenteral aureomycin; intussusception; the Sulkowitch test.
- 21465 GILTNER, L. T. Anaplasmosis [in cattle]. Vet. Med. 46:30. Jan.1951. 41.8 M69  
Notes on committee report.
- 21466 GIULIANI, R. The hormone control of the ovaries and the transplantation of the ova. (In Italian.) Riv. di Zootec. 23:309-314. Oct.1950. 49 R52  
Chiefly on cattle.
- 21467 GLANTZ, P. J., BORTREE, A. L., and KNOTT, C. B. Better prevent than cure calf scours; most cases respond to sulfa treatment. Sci. Farmer [Pa. Sta.] 1950: 4. Dec.1950. 100 P381
- 21468 GOFFINET, and HENNAU. L'opération césarienne chez la vache. Ann. de Méd. Vét. 94:502-514. Oct.1950. 41.8 An78
- 21469 GOOD, G. H., and KINGMAN, H. E. Brucellosis—first of a series of articles on Bang's disease. Cow Country 78(6):9. Dec.15,1950. 49 C83
- 21470 GORET, P., and JOUBERT, L. Le dogme de l'infailibilité de la tuberculine est-il en danger? Les défaillances et pseudo-défaillances de la tuberculine. Etude critique. Rev. de Méd. Vét. [Toulouse] 101:204-213. Apr.1950. 41.8 R32
- 21471 GRAUB, E. Bemerkungen zum schlussbericht der Expertenkommission zur beurteilung von fragen über die schutzimpfung gegen die rindertuberculose. Schweiz. Arch. f. Tierheilk. 92:709-718. Nov.1950. 41.9 Sch9
- 21472 GREVE. Milcherhitzung und tuberkulosebekämpfung. Lebensmitteltierarzt 1:121-122. Aug.1950. 41.8 L49  
Feed for calves.
- 21473 HELLE, O. Identical cattle triplets. (In Norwegian.) Tidsskr. f. det Norske Landbr. 57:181-186. May/June 1950. 11 T433
- 21474 HODGES, H. G., and FINCHER, M. G. Bovine mastitis. N. Y. State Vet. Col. Rpt. 1948/49:90-119. 1950. 41.9 N482R  
Report on research.
- 21475 HODGES, H. G. Herd management helps to control mastitis. N. Y. Agr. Col. Ext. Cornell Feed Serv. 29:6-7. Nov.1950. 275.29 N48Cf  
Dairy cattle.
- 21476 HOLL, W. Über die verträglichkeit von hexachlorcyclohexan beim rind bei innerlicher verabreichung (vorläufige mitteilung). Tierärztl. Umschau 5: 417-418. Nov.1950. 41.8 T445
- 21477 HURT, L. M. Stock inspection. Calif. Dairyman 30(23):68-69. Dec.16,1950. 44.8 C12  
Diseases.
- 21478 JACOBSEN, N. A. Lack of phosphorus, vitamin A proved cause of losses. Mont. Farmer-Stockman 38(6):37. Nov.15,1950. 6 M764  
Symptoms and effects of dietary trouble in range cattle.
- 21479 JOHNSON, M. L. Diseases and treatment of feedlot cattle. Iowa Vet. 21(6):13,28. Nov./Dec.1950. 41.8 Io9  
Shipping fever, coccidiosis, foot rot, etc.
- 21480 JOHNSTONE-WALLACE, D. B. Grass and the grazing animal. 4. Bloat. Farmers Wk. [London] 33(23): 52,55. Dec.8,1950. 10 F2226
- 21481 KINGMAN, H. E., and PALEN, J. S. Streptomycin in the treatment of [bovine] actinomycosis. Amer. Vet. Med. Assoc. J. 118:28-30. Jan.1951. 41.8 Am3
- 21482 KLUSSENDORF, R. C. Mastitis—how to prevent it. Bow'an Arrow, Prod. Ed. 7:3. Jan./Feb.1951. 44.8 B672  
Cattle.
- 21483 KNOOP, C. E., and MONROE, C. F. Effect of udder treatments on milk let-down. Ohio Farm & Home Res. [Ohio Sta.] 35:66-67. Sept./Oct.1950. 100 Oh3S
- 21484 KOCH, W. Die wirkung hoher dosen von oestrogenen auf stoffwechsel und mast bei rindern. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:211-213. Ref. Oct.1950. 41.8 B45
- 21485 LARSEN, P. H. Opsonic indexes of cattle following injections of a Brucella abortus bacterin. Cornell Vet. 40:417-436. Ref. Oct.1950. 41.8 C81
- 21486 LEONARD, H. A., and MCFADDEN, M. C. Treatment of anaplasmosis in cattle. Amer. Vet. Med. Assoc. J. 118:27. Jan.1951. 41.8 Am3
- 21487 LIENERT, E. Die pharmakotherapie der pansentympanie mit besonderer berücksichtigung der pharmakodynamik des Tartarus stibiatus auf den pansen. 4. Wien. Tierärztl. Monatsschr. 37:873-891. Ref. Dec.1950. 41.8 T345
- 21488 LINON, G. La tuberculose bovine. Agr. Prat. 114:557-561. (To be cont.) Dec.1950. 14 J82
- 21489 LORA, J. Un nuevo caso de linfadenosis bovina. Veterinaria 14:883-889. Nov.1950. 41.8 V6429
- 21490 LOWER, H. C. Aureomycin in the treatment of infectious diseases of bovines. No. Amer. Vet. 31:800-805. Ref. Dec.1950. 41.8 N812
- 21491 MAAR, R. E. DE. Report on the epidemic among the Friesian cattle on the Fazenda Rjbeirao in Brazil. (In Dutch.) Tijdschr. v. Diergeneesk. 75:1000-1027. Dec.15,1950. 41.8 T431  
English summary.
- Septicemia caused by Corynebacterium pyogenes.
- 21492 MACRI, G. On a case of primary tuberculosis of the vulva in a cow. (In Italian.) Zootec. e Vet. 5:656-661. Aug.1950. 41.8 Z7  
English summary.
- 21493 MARCENAC, N. Technique de la gastrotomie chez les bovins. Rec. de Méd. Vét. 126:609-632. Ref. Oct.1950. 41.8 R24
- 21494 MASUI, K. Kachiku hikaku kaibo-gaku [Cattle comparative anatomy], v. 2. Tokyo,Yokendo,1950. 251 p. 444 M39
- 21495 MAYHEW, R. L. A preliminary report on feeding small amounts of phenothiazine during the preparturient period in pure infection of the nodular worm [Oesophagostomum radiatum] in calves. (Abs.) J. Parasitol. 36(6,sect.2):35. Dec.1950. 44.8 J824
- 21496 MAYHEW, R. L. Results of additional experiments in which small amounts of phenothiazine was fed in pure infections of the nodular worm [Oesophagostomum radiatum] in calves. (Abs.) J. Parasitol. 36(6,sect.2):35. Dec.1950. 44.8 J824



- 21497 MAYHEW, R. L. Studies on bovine gastrointestinal parasites. XVI. Some results of feeding small amounts of phenothiazine on pure infections of the hookworm *Bunostomum phlebotomum*. *J. Parasitol.* 36:536-540. Dec.1950. 44.8 J824
- 21498 MILO, H. A. Tracing tuberculous cattle from the abattoir to the point of origin. (Abs.) *Vet. Med.* 46:10-11. Jan.1951. 41.8 M69
- 21499 MONTI GRANÉ, J. R. Interesante epizootia de cow-pox en la cuenca lechera. Uruguay. *Dir. de Ganad. B. Mens.* 31:281-283. Apr./June 1950. 41.9 Ur8
- 21500 MORHART, H. Praxiserfahrung bei der planmässigen bekämpfung der deckinfektion des rindes. *Tierärztl. Umschau* 5:360-362. Oct.1950. 41.8 T445
- 21501 NAGEL, W. Bekämpfung der rindertuberkulose in der praxis. *Tierärztl. Umschau* 5:396-400. Nov.1950. 41.8 T445
- 21502 ORUM, A. M. Abstract of AVMA Committee on Practitioner Participation in Brucellosis Control. (Condensed.) *Calif. Vet.* 4(2):11. Nov./Dec.1950. 41.8 C12
- 21503 PAPP, E. Die verbreitung der trichomoniasis durch auktionsbullen. *Deut. Tierärztl. Wchnschr.* 57:361-363. Nov.15,1950. 41.8 C482
- 21504 PEARSON, C. C. Aralen dihydrochloride as a drug for treating field and laboratory cases of acute bovine anaplasmosis. *No. Amer. Vet.* 31:797-799. Dec.1950. 41.8 N812
- 21505 PIANA, G. Düren disease - feeding with soybeans - methionine deficiency (experimental considerations and researches). I-II. (In Italian.) *Riv. di Zootec.* 23:319-322,349-353. Oct.-Nov.1950. 49 R52
- Cattle.
- 21506 PLAAS, Der rübenblattdurchfall des rindes; seine ätiologie, seine beziehungen zum mineralstoffwechsel sowie seine therapie und prophylaxe. *Deut. Tierärztl. Wchnschr.* 57:345-348. Nov.1,1950. 41.8 C482
- Also in *Tierärztl. Umschau* 5:424-426. Nov.1950. 41.8 T445
- 21507 ROBERTS, S. J., and SAUNDERS, L. Z. Fracture and abscess of the first sacral vertebra in a heifer. *Cornell Vet.* 40:398-399. Oct.1950. 41.8 C81
- 21508 ROBERTS, S. J. An unusual condition associated with uterus unicornus in cattle. *Cornell Vet.* 40:357-363. Oct.1950. 41.8 C81
- 21509 ROBERTSON, A. Acetonaemia in dairy cattle. *Guernsey Breeders' J.* [London] (n.s.) 4(4):13-14,20. Winter 1950. 43.8 G932
- 21510 ROBERTSON, A., THIN, C., and STIRLING, A. M. Isopropyl alcohol in cows suffering from acetonaemia. *Nature* [London] 166:954. Dec.2,1950. 472 N21
- 21511 ROBINSON, M. Worms in calves may cause heavy losses. *Milk Bd. J.* 1:570,572,600,602. Oct.16-Nov.15,1950. 44.8 M5934
- 21512 ROCHE, J., and DESRUISSEAU, G. Sur l'iode ovarien et les modifications de son taux au cours de la gestation chez la vache. *Soc. de Biol. Compt. Rend.* 144:1179-1181. Sept.1950. 442.9 P21
- 21513 RODRÍGUEZ GARCÍA, J. A., and PERDOMO, R. S. A propósito de una grave afección en los vacunos, provocada por la ingestión de raicillas de cebada germinal. U. de la Repúb. *Facul. de Vet. An.* 5:195-203. 1948/49. 41.9 M764
- 21514 ROSSI, P., and BRUYÈRE, A. Brucellose bovine et antibiothérapie. *Acad. Vét. de France. B.* 23:443-449. Ref. Oct.1950. 41.9 R24
- 21515 RYFF, J. F. Pneumonia in calves. *Cow Country* 78(6):14. Dec.15,1950. 49 C83
- 21516 SAARINEN, P. A statistical study of the effect of excessive feeding of calcium and phosphorus supplements on the blood calcium and phosphorus of dairy cows. *Suomen Maataloustiet. Seura. Maataloustiet. Aikakausk.* 22:124-131. Ref. 1950. 30 Su7M
- 21517 SANZ, B. El maltrato de los animales es causa de la anaplasmosis. *Agr. Austral* 18:401-402. Sept.1950. 9.3 Ag842
- Chiefly in cattle.
- 21518 SELLERS, A. F., and others. Relative sedimentation rates of spermatozoa and *Trichomonas foetus* in bovine semen. *Cornell Vet.* 40:400-416. Ref. Oct.1950. 41.8 C81
- L. O. Gilmore, M. Grady, and M. H. Roepke, joint authors.
- 21519 SEVERSON, H., and SCHNEIDER, V. You'll need a healthier herd to stay in the dairy business. *Successful Farming* 49(1):86,88,90. Jan.1951. 6 Su12
- 21520 SIGNOL, J. Essais de traitement de la coccidiose bovine par la thiodiphénylamine. *Rev. de Méd. Vét.* [Toulouse] 101:247-252. May 1950. 41.8 R32
- 21521 SIGNOL, J. Un nouvel anticoccidien: la nivaquine. *Rev. de Méd. Vét.* [Toulouse] 101:195-202. Apr.1950. 41.8 R32
- Tests on cattle.
- 21522 SONNECK, H. Beitrag zur bekämpfung des rinderlungenwurms [*Dictyocaulus viviparus*] unter besonderer berücksichtigung der verwendung von surfenjod-suspension. *Tierärztl. Umschau* 5:387-389. Ref. Nov.1950. 41.8 T445
- 21523 STABLEFORTH, A. W. Bovine mastitis; effective modern research in Britain. *Guernsey Breeders' J.* [London] (n.s.) 4(4):26,28,30. Winter 1950. 43.8 G932
- 21524 STAFFORD, C. D. Report of CSVMA Brucellosis Calf Vaccination Program Committee. *Calif. Vet.* 4(2):10-11,21. Nov./Dec.1950. 41.8 C12
- 21525 ŠTĚPÁNEK, M. Bovine mastitis caused by streptococci. (In Czech.) *Časopis Českoslov. Vet.* 5:360-369. Ref. Aug.25,1950. 41.8 C27
- 21526 STEYTLER, F. A. South Africa chafes under the rinderpest. (In Afrikaans.) *Landbouweekblad* 31(1637):12-13. Nov.29,1950. 24 L232
- 21527 STONEBRINK, B. A new medium for the primary isolation of *Mycobacterium tuberculosis typus bovinus* (preliminary note). *Tijdschr. v. Diergeneesk.* 75:942-944. Dec.1,1950. 41.8 T431
- In Dutch and English.
- 21528 SWETT, W. W., and others. Effectiveness of penicillin in eliminating mastitis infections in the Bureau of Dairy Industry herd. *U. S. D. A. Tech. B.* 1027,22 p. Ref. Dec.1950. 1 Ag84Te
- L. A. Burke, C. R. Buckner, P. C. Underwood, C. A. Matthews, and M. H. Fohrman, joint authors.
- 21529 THARP, V. L. Listerellosis in cattle. *Iowa Vet.* 21(6):32. Nov./Dec.1950. 41.8 Io9
- 21530 THIERY, J. P., and DRIEUX, H. Réaction perifocale provoquée chez un bovin tuberculeux par l'inoculation de virus aphteux. *Rec. de Méd. Vét.* 126:306-608. Oct.1950. 41.8 R24
- 21531 THOMAS, R. M., and PRIER, J. E. Treatment of hemorrhagic septicemia of cattle with bacitracin. *No. Amer. Vet.* 32:30-31. Jan.1951. 41.8 N812
- 21532 TORRI, E. Account of a case of rabies in a cow, and consideration of the cause and prevention of rabies infection in the municipality of Spezia. (In Italian.) *Zooprofilassi* 5:344-351. July 1950. 41.8 Z72
- 21533 TREML, F. Deckseuchenbekämpfung in Württemberg-Hohenzollern. *Tierärztl. Umschau* 5:390-393. Nov.1950. 41.8 T445
- Cattle.
- 21534 UDALL, D. H. "Sulfathalidine" phthalylsulfathiazole in the prevention and treatment of diarrhea in calves. *N. Y. State Vet. Col. Rpt.* 1948/49:132-138. 1950. 41.9 N482R
- 21535 U. S. BUR. OF ANIMAL INDUSTRY. Trichomoniasis, a costly venereal disease of cattle. *Washington*, 1950. 3 p. 1.972 A2T73
- 21536 VAITSMAN, J. Control of cattle abortion (brucellosis). (In Portuguese.) *Lavoura* 54:50. July/Aug. 1950. 9.2 L39
- 21537 VAN D. HEEVER, L. W. A preliminary survey of bovine diseases affecting the quality and safety of a large town's milk supply. *So. African Vet. Med. Assoc. J.* 21:108-113. Ref. Sept.1950. 41.8 So8
- Tuberculosis, brucellosis, mastitis, mange.
- 21538 WARD, A. H. Field survey of [bovine] mastitis response to penicillin. *Austral. Vet. J.* 26:283-291. Oct.1950. 41.8 Au72
- Includes discussion.
- 21539 WARD, D. E. Listerellosis in cattle; case report. *No. Amer. Vet.* 31:805-806. Dec.1950. 41.8 N812
- 21540 WATTS, R. M. Bloat in dairy cattle. *Milk Bd. J.* 1:594. Nov.15,1950. 44.8 M5934
- 21541 WATTS, R. M. Trichomoniasis, another cause of abortion in cattle. *Milk Bd. J.* 1:602. Nov.15, 1950. 44.8 M5934
- 21542 WEBSTER, H. D., and THORP, F., JR. Vibriotic abortion, a venereal disease of cattle? *M. S. C. Veterinarian* 11:23-25,47. Ref. Fall 1950. 41.8 M582
- 21543 WEISSENRIEDER, F. X. Prof. Dr. J. U. Duerst als pionier der tuberkulosebekämpfung beim rind. *Schweiz. Landwirt. Monatsh.* 28:362-365. Nov.20,1950. 17 Sch93



- 21544 WELLS, K. F. Control of bovine tuberculosis in Canada. (Abs.) *Vet. Med.* 46:11. Jan.1951. 41.8 M69
- 21545 WHITTLESTON, W. G. Nature of the milk-ejection process. *Nature* [London] 166:994. Dec.9,1950. 472 N21
- Cattle and swine.
- 21546 WILHELM, J. Gedanken über die bisherigen erfolglosen bekämpfungsmassnahmen gegen Tbc. und geschlechtskrankheiten der rinder. *Tierärztl. Umschau* 5:357-359. Oct.1950. 41.8 T445
- 21547 WILLMOTT, S. On the species of Paramphistomum Fischöder, 1901 occurring in Britain and Ireland with notes on some material from the Netherlands and France. *J. Helminthol.* 24:155-170. 1950. 436.8 J82
- P. hiberniae and P. scotiae n. spp. from cattle.
- 21548 WILSON, J. B. The treatment of retained placenta and septic metritis of the bovine. *Vet. Rec.* 62:626-627. Nov.11,1950. 41.8 V641
- 21549 WILSON, S. G. A preliminary note on resistance to treatment as shown by a strain of T. congolense in the Bukomero District of Uganda. *Vet. Rec.* 62:709-711. Nov.25,1950. 41.8 V641
- Bovine trypanosomiasis.
- 21550 WILZ, P. Beitrag zur behandlung der aktinomykose beim rind mit Katusan-jodkalithérapie. *Tierärztl. Umschau* 5:426. Nov.1950. 41.8 T445
- 21551 WIT, J. J. D. DE. Identical cattle twins. (In Dutch.) *T.N.O.-Nieuws* 5:319-325. Oct.1950. 475 T11
- 21552 WRIGHT, N. Multiple births in cattle—twins: free-martins. *Canad. Cattlemen* 13(12):15. Dec.1950. 49 C16
- 21553 WUNNER, H. Zur diagnose und differenzierung chronischer gebärmuttererkrankungen beim rind. *Tierärztl. Umschau* 5:359-360. Oct.1950. 41.8 T445
- 21554 ZELDENRUST, J., and ZWIJNENBERG, H. A. A case of primary sarcoma of the heart of a cow. (In Dutch.) *Tijdschr. v. Diergeneesk.* 75:856-859. Nov.1, 1950. 41.8 T431
- 21555 ZINDEL, W. Eine verschleppte torsio uteri ante partum und laparotomie bei einer kuh. *Schweiz. Arch. f. Tierheilk.* 92:706-708. Nov.1950. 41.9 Sch9
- English summary.
- Miscellaneous
- 21556 ALBAUGH, R., and GUILBERT, H. R. Cattle grading & performance records. *Calif. Cattlemen* 1951:8, 10. Jan.1951. 43.8 C12
- 21557 ANDERSON, E. E. Dairy heifers for replacement. *N. Mex. Stockman* 15(11):58. Nov.1950. 49 N462
- 21558 ANDRESEN, N. Gewinnung von qualitätsmilch unter besonderer berücksichtigung einer sachgemässen melkarbeit. *Unser Milchvieh* Ausg. B/C 2(9):4;(10):4. Sept.-Oct.1950. 43.8 Un72
- 21559 BARON, D. R. Farmers are not too busy. *Farmer's Mag.* 47(12):7,11,30. Dec.1950. 7 C165
- Cattle shows and sales.
- 21560 BECKER, Die milchleistungsprüfungen in Westfalen-Lippe. Kontrollangestellte, p. 2-3. In *Unser Milchvieh* Ausg. B/C 2(9):2-3. Sept.1950. 43.8 Un72
- 21561 BESANA, A. Control of milk at the production level. (In Italian.) *Prog. Vet.* 5:626,628. Nov.15,1950. 41.8 P942
- Care of dairy cattle.
- 21562 BETTENAY, R. A. Rate of milking with machines. *West. Austral. Dept. Agr. J.* (ser2)27:160-163. June 1950. 23 W52J
- 21563 BLACK, W. H., and MCCOMAS, E. W. The beef calf: its growth and development. *U. S. D. A. Farmers' B.* 1135, rev., 26 p. Aug.1950. 1 Ag84F
- 21564 BOLARTE P., L. Cálculo del número de animales necesarios para una producción dada de leche. *Agronomia* [Lima] 15(63):53-54. Sept./Oct.1950. 9.8 Ag83
- 21565 BRADBURY, C. J. Association herd test; report for year 1949-50. *Victoria. Dept. Agr. J.* 48:481-488,519-524. Nov.1950. 23 V66J
- Dairy cattle.
- 21566 BRADBURY, C. J. Standard Herd Test, 1949-50. *Victoria. Dept. Agr. J.* 48:385-390,407-414. Sept.1950. 23 V66J
- Dairy cattle records.
- 21567 BREECK, L. L. Winter freshening of cows. *Ky. Agr. B.* 7:3-4. Jan.1951. 280.38 K41
- Feeding and care at calving time.
- 21568 BROWN, B. Life in a box car; or bang—where are we? *Holstein-Friesian World* 48:23,61-62. Jan.6, 1951. 43.8 H742
- Transportation of cattle to the shows.
- 21569 BURNS, D. J., and BEAL, G. M. Farm practices affecting seasonal milk production in the Baltimore milkshed. *Md. Agr. Expt. Sta. B. A-58*, 16 p. Oct.1950. 100 M36S
- 21570 CHIEFFI, A. The importance of environmental factors in the raising of cattle. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 25:263-282. Ref. Sept./Oct.1950. 9.2 R324
- 21571 CHIEFFI, A. Raising of steers. (In Portuguese.) *Soc. Rur. Brasil. Rev.* 30(359):20-24. Oct.1950. 9.2 B733
- 21572 CHOHLIS, J. Cowman with a plan; he gets more calves in less time. *West. Livestock J.* 29(6):44,84, 86,90-91,165,167-168. Dec.15,1950. 6 F2278
- Management of a cattle ranch in Washington.
- 21573 CIMON, J. C. C'est le temps de s'inscrire au contrôle laitier postal. *Terre de Chez Nous* 22(45):7,17. Jan.3,1951. 7 T27
- Milk production records in Canada.
- 21574 COPELAND, L. Why test? *Brown Swiss B.* 29(7):11,37. Jan.1951. 43.8 B81
- 21575 COSSETTE, M. Pas de flânage en tirant les vaches. *B. des Agr.* 46(11):48-49. Nov.1950. 7 B872
- 21576 DEITEMEYER, C. Autumn babies of the Sand Hills. *Nebr. Farmer* 92(22):1,9. Nov.18,1950. 6 N27
- Advantages in raising fall calves.
- 21577 DE LA WARR, EARL. Advances in dairy farming. *Times Survey Brit. Agr.* 1950:1-2. Oct.1950. 10 T48
- 21578 EDWARDS, J. The milk recording [Great Britain] and breeding movement. *Farmers' Club. J.* 1950:79-95. 10 L84
- Includes discussion.
- 21579 EDWARDS, J. Production figures record higher milk yields. *So. African Dairyman* 12:368-369. Dec.1950. 44.8 So822
- Great Britain.
- 21580 ENGELMANN, L. Etwas über haltung und fütterung der zugkuh. Kontrollangestellte, p. 3. In *Unser Milchvieh* Ausg. B/C 2(9). Sept.1950. 43.8 Un72
- 21581 ESKEDAL, H. W. Which cow is your best one? (In Danish.) *Buskap og Avdrått* 1950(4):44-47. 49 B96
- 21582 FAVERA, R. DALLA. Are dairy cows washed? (In Italian.) *Humus* 6(9):31. Sept.1950. 16 H88
- 21583 FERNANDEZ QUINTANILLA, C. Cría de terneros. *Badajoz. Diputación Prov. B. de Inform. Agr. y Ganad.* 8(80):13-20. Sept.1950. 15 B14
- 21584 GARD, W. Blizzards on the range. *Cattlemen* 37(8):25,61. Jan.1951. 49 C29
- 21585 GILBEY, J. Up the garden path; two Jersey cows in a converted stable make little trouble. *Field* 196:959. Dec.2,1950. 10 F45
- Chiefly care.
- 21586 HAMMOND, J. Dual-purpose herds for more beef. *Farmer & Stock-Breeder* 64:3273. Dec.19,1950. 10 F228
- 21587 HAWKEY, K. Dairy cattle strike a balance. *Poultry World* 87:317. Nov.30,1950. 47.8 P8682
- 21588 HELLBUSCH, C. What it takes to produce a champion; careful methods of selection, feeding and showing paid off for two Colorado and New Mexico 4-H girls last summer when their efforts were rewarded with grand championship state fair honors on their fat steers. *Rec. Stockman, Annu. Ed.* (1951)61(52):83-84. Dec.28, 1950. 49 D43
- 21589 JENSEN, S. K. Thoughts after the livestock exhibitions. (In Danish.) *Dansk Landbr.* 69:539-540. Oct.26,1950. 280.28 V91
- Judging cattle.
- 21590 JONGH, M. M. DE. The development of milk control in South Holland. (In Dutch.) *Stamboeker* 32:101-102. Aug.17,1950. 43.8 V58
- 21591 KAY, H. D. Research and the dairy farmer. *Times Survey Brit. Agr.* 1950:2. Oct.1950. 10 T48
- Current research at the National Institute for Research in Dairying near Reading.
- 21592 KJOME, O. J. Here's the combination, boys and girls—the fitting and showing of that 4-H dairy calf. *Guernsey Breeders' J.* [Peterborough] 80:1519-1522. Dec.15,1950. 43.8 G93
- 21593 KORKMAN, N. Culling and increasing the [dairy] cattle herd. (In Swedish.) *Lantmannen* 34:767-768. Oct.7,1950. 11 L234



- 21594 KOTZE, P. L. The value of conformation in selecting cattle. *Farming So. Africa* 25:330,338. Oct. 1950. 24 S0842
- 21595 LAUPRECHT, E., and DÖRING, H. Über die beziehungen zwischen den jahresleistungen und dem lebendgewicht des schwarzbunten niederungsrindes. *Milchwissenschaft* 5:383-389. (To be cont.) Nov. 1950. 44.8 M5933
- 21596 LOPEZ FRANCO, V. Granjas pecuarias. *Lérida Ganad.* (ser.3)116:114-121. June 1950. 41.8 L56
- 21597 MANN, H. L. Is your calf raising up to par? *Susquehanna-Wyo. Farm & Home News* 3(10):13-14. Oct. 1950. 6 Su82
- 21598 MANSFIELD, W. S. Rearing more beef cattle; better use of the hill breeds. *Times Survey Brit. Agr.* 1950:8-9. Oct. 1950. 10 T48
- 21599 MERCIER, E. Comment améliorer votre troupeau. *B. des Agr.* 46(11):16-17,50-52. Nov. 1950. 7 B872
- Care of the dairy herd.
- 21600 MORRIS, W. E., and HARVEY, A. L. Beef production. *Minn. U. Agr. Ext.* B. 146, rev. 28 p. June 1950. 275.29 M668
- 21601 ORENSANZ MOLINE, J. Vacas lecheras y producción de leche. *B. de Divulg. Ganad. [Valladolid]* 7: 131-137. (Concl.) June 1950. 49.9 Sp12
- 21602 PATTERSON, P. J. Culling, vitamin A and records help produce better feeders. *West. Farm Life* 53(Annu. Livestock Rev. 1951):185,189. Jan. 1, 1951. 6 R153
- 21603 PEDERSEN, P. N. Just let the cows have their calves in the fall. (In Danish.) *Dansk Landbr.* 69:567-568. Nov. 9, 1950. 280.28 V91
- Effect on winter milk production.
- 21604 PINGREY, H. B. Research in weight shrinkage in cattle. *N. Mex. Stockman* 15(11):56. Nov. 1950. 49 N462
- In transport.
- 21605 POZO PELAYO, C. DEL. El ganado vacuno lechero en la Feria del Campo. *Ganadería [Madrid]* 8: 459-462. July 1950. 49 G15
- Spain.
- 21606 RICE, D. A new idea in organization—Colorado Cattlemen's Assn. *Rec. Stockman, Annu. Ed.* (1951)61 (52):241,244-245,248. Dec. 28, 1950. 49 D43
- 21607 RUSSELL, J. F. American farming and dairying; impressions of a visitor from Scotland. *I. Scot. Farmer* 58:1546. Dec. 16, 1950. 10 Sco8
- Chiefly the dairy industry.
- 21608 RYDE, H. New objectives in dairy herd control. (In Swedish.) *Lantmannen* 34:774-775. Oct. 7, 1950. 11 L234
- Dairy herd improvement associations.
- 21609 SANSON, E. Butcher, spare that ax! *Agr. & Indus. Life* 12(11):2,20. Nov. 1950. 25 Ag8
- Indiscriminate slaughter of work animals, especially carabaos, in the Philippines.
- 21610 SMITH, H. Trail driving—1950 style—over Magdalena stock driveway. *N. Mex. Stockman* 15(11):30-31. Nov. 1950. 49 N462
- Beef cattle and sheep.
- 21611 U. S. BUR. OF DAIRY INDUSTRY. Report of the chief, 1949/50. Washington, 1950. 26 p. 1 D14
- 21612 UTAH. STATE AGRICULTURAL COLLEGE. EXTENSION SERV. Progress through dairy herd improvement in Utah. *Utah. State Agr. Col. Ext. B.* 205, 18 p. June 1950. 275.29 Ut1
- 21613 VER, R. Z. The growth and development of some pure breed and grade calves. *Philippine Agr.* 33: 149-165. Ref. Jan./Mar. 1950. 25 P542
- DOGS AND CATS
- Breeds and Breeding
- 21614 BAYLDON, R. C. Breeds of the Border. *Field* 196:1043-1044. Dec. 16, 1950. 10 F45
- 21615 BURTT, R. M. Sick Greyhounds—a poor bet. *Vet. Med.* 45:494-496. Dec. 1950. 41.8 M69
- 21616 CLARK, R. D. Terriers; historia de las razas; el Terrier de Manchester. *Mundo Canino* 3(36):4-5,12. Aug. 1950. 48.8 M92
- 21617 CUTLER, C. J. The Spaniel—maybe the Cocker, Clumber or King Charles. (Sum.) *New Zeal. Dog World* 5(9):4-6. (To be cont.) Oct. 1950. 48.8 N48
- 21618 FIORONE, F. The Pointer. (In Italian.) *Riv. di Zootec.* 23:286-290. Sept. 1950. 49 R52
- 21619 JONES, A. F. The breeds in brief, No. 106. Eskimo. *Amer. Kennel Gaz.* 68:27-28,301-303. Jan. 1951. 48.8 Am3
- 21620 JONES, A. F. Make my next dog a pure-bred; facts weigh heavily in his favor. *Amer. Kennel Gaz.* 68: 11-15,26. Jan. 1951. 48.8 Am3
- 21621 LLOYD, J. I. Hounds of St. Raphael. *Field* 196:919. Nov. 25, 1950. 10 F45
- 21622 MYERS, B. Some personal sidelights on Alaska's beast of burden. *Ky. Happy Hunting Ground* 7:6-7. Jan. 1951. 409.78 K41
- Huskies.
- 21623 NEW STANDARD for Collie. *Dog World [Chicago]* 35(12):96-97. Dec. 1950. 48.8 D672
- Changes approved by Board of Directors of American Kennel Club.
- 21624 SENET, A. Mise au point sur la génétique du chat. *Rec. de Méd. Vét.* 126:535-556. Ref. Sept. 1950. 41.8 R24
- 21625 SMITH, C. A. Handsome is as handsome does; the ornamental Clumber makes a sturdy gundog. *Field* 196:971. Dec. 2, 1950. 10 F45
- Veterinary Medicine
- 21626 ALLAM, M. W. Foreleg paralysis in the canine. (Abs.) *M. S. C. Veterinarian* 11:45. Fall 1950. 41.8 M582
- 21627 ARMISTEAD, W. W. Mechanical aspects of ear treatment. *Amer. Vet. Med. Assoc. J.* 118:8-10. Jan. 1951. 41.8 Am3
- Dogs and cats.
- 21628 AUBERT, A. Action de la vitamine B. 12 dans les complications neurologiques de la maladie du jeune chien. *Rev. de Path. Compar.* 50:520-524. July 1950. 44.8 R326
- English summary, p. 526.
- Includes discussion.
- 21629 AUBERT, A. L'action de la vitamine B. 12 dans une guérison de gastro-entérite infectieuse du chien. *Rev. de Path. Compar.* 50:525. July 1950. 44.8 R326
- 21630 BARKE, A. Rapidorm zur betäubung bei hund und schwein. *Tierärztl. Umschau* 5:324-326. Sept. 1950. 41.8 T445
- 21631 BARNER, R. D. Rapid laboratory diagnosis of infectious canine hepatitis. *M. S. C. Veterinarian* 11:30-31. Fall 1950. 41.8 M582
- 21632 BIGGER, B. W. Canine leukemia. *M. S. C. Veterinarian* 11:33,45. Fall 1950. 41.8 M582
- 21633 BLAKELY, C. L. Surgical drainage of the external ear canal. *Vet. Excerpts* 10:99-108. 1950. 41.8 V6419
- Dogs.
- 21634 BRINKER, W. O., and others. Surital sodium: a new agent for intravenous use. *Vet. Med.* 46:31-32. Jan. 1951. 41.8 M69
- F. E. Eads, E. K. Sales, R. G. Schirmer, and A. C. Wheeler, joint authors.
- Tests with dogs.
- 21635 CRISTI, G. A., and LANDRO, O. A. DL. Enzootia en *Felis catus domesticus* (comunicación previa). *U. de la Repúb. Facul. de Vet. An.* 5:243-252. 1948/49. 41.9 M764
- Uruguay.
- 21636 CRISTI, G. A., and LIMA A., N. S. Nefrectomia en perro (*Canis familiaris* L.). *U. de la Repúb. Facul. de Vet. An.* 5:239-241. 1948/49. 41.9 M764
- 21637 CRISTI, G. A., REGGIARDO, C., and CHIOSSONI, D. Talla prepubiana en perro (*Canis familiaris* L.). *U. de la Repúb. Facul. de Vet. An.* 5:233-237. 1948/49. 41.9 M764
- Surgical removal of vesical calculi.
- 21638 DINSMORE, J. R. Unusual intestinal obstruction—intestinal anastomosis [in a dog]. *No. Amer. Vet.* 31:813-816. Dec. 1950. 41.8 N812
- Surgical treatment.
- 21639 EADS, F. E. The parenteral use of penicillin and streptomycin in complications of [canine and feline] distemper. *No. Amer. Vet.* 32:32-36. Ref. Jan. 1951. 41.8 N812
- 21640 FIELITZ LANDIVAR, F., and SELINKE, H. Contribución, con fines didácticos, al estudio de los tumores malignos (cáncer) de los animales domésticos. Intestino recto del perro (*Canis familiaris*). *U. de la Repúb. Facul. de Vet. An.* 5:219-229. (To be cont.) 1948/49. 41.9 M764



- 21641 FOLEY, R. J. The treatment of canine filariasis. *Vet. Med.* 45:485-489,491. Dec.1950. 41.8 M69
- 21642 FRIEDMAN, M. H. F. Gastric secretion in the cat. (Abs.) *Amer. J. Physiol.* 163:712-713. Dec.1,1950. 447.8 Am3
- 21643 GREENE, J. E. Reduction of vertebral luxation [in dogs]. *No. Amer. Vet.* 31:816. Dec.1950. 41.8 N812
- 21644 GURNEAU, C. J. Leptospirosis. M. S. C. *Veterinarian* 11:32. Fall 1950. 41.8 M582  
Report on case in English Setter.
- 21645 HOLMES, J. H. Further observations on drinking induced in dogs by hypertonic saline solutions. (Abs.) *Amer. J. Physiol.* 163:721-722. Dec.1,1950. 447.8 Am3
- 21646 HOLZ, C. Staupe der hunde: Med-Animal=Antiviral. *Tierärztl. Umschau* 5:415-416. Nov.1950. 41.8 T445
- 21647 IRWIN, W. F. Endometritis and pyometra in the bitch. M. S. C. *Veterinarian* 11:17,38-41. Fall 1950. 41.8 M582
- 21648 IRWIN, W. F. Feline practice. *Auburn Vet.* 7:11-12,27-34. Fall 1950. 41.8 Aul
- 21649 JASPER, D. E., and LEWIS, J. S. Coccidioidomycosis in the dog. *No. Amer. Vet.* 32:37-40. Jan.1951. 41.8 N812  
Due to *Coccidioides immitis*.
- 21650 JASPER, D. E. Toxoplasmosis in the dog—report of a new case. *Amer. Vet. Med. Assoc. J.* 118:22-25. Ref. Jan.1951. 41.8 Am3
- 21651 KELLY, E. Distemper. II. Cocker Spaniel Visitor 13:11-13. Jan.1951. 49.8 C64
- 21652 KIESEL, G. K. Carcinoma of the kidney of a cat. *Cornell Vet.* 40:380. Oct.1950. 41.8 C81
- 21653 KIRK, H. Repair of fractures in the racing Greyhound by modern methods. *Vet. Rec.* 62:786. Dec.16, 1950. 41.8 V641
- 21654 KNOBLAUCH, G., and KRAUSE, D. Analgetika zur prämedikation bei intravenösen kurznarkosen. Berlin. u. Münch. *Tierärztl. Wchnschr.* 1950:175-177. Sept.1950. 41.8 B45  
Dogs.
- 21655 KONDE, W. N., HOERLEIN, B. F., and MCBEE, J. A. Case report on posterior paraplegia with the presence of bladder and kidney calculi. *Auburn Vet.* 7:15-16. Fall 1950. 41.8 Aul  
Cocker Spaniel.
- 21656 KONDE, W. N. In the small animal clinic. *Auburn Vet.* 7:19-20. Fall 1950. 41.8 Aul  
Dogs and cats.
- 21657 KRALL, P. Veterinärpolizeiliche massnahmen bei leptospirose. *Tierärztl. Umschau* 5:416-417. Nov. 1950. 41.8 T445  
Dogs.
- 21658 LAIGNIER, and TAILLANDIER. Contribution à la recherche d'une technique de l'opération de la cataracte chez le chien. *Rec. de Méd. Vét.* 126:602-605. Oct.1950. 41.8 R24
- 21659 LAUDER, J. S. J. Clinical diagnosis of diseases of the abdomen of the dog and cat. *Vet. Rec.* 62:697-709. Nov.25,1950. 41.8 V641  
Includes discussions by O. D. James, J. W. Heney and others.
- 21660 LEONA, V. Veterinaria canina: sintomas, versus, diagnóstico. *Mundo Canino* 3(36):3,7. Aug.1950. 48.8 M92
- 21661 LIEBSCH, A. Zur frage der kropfbehandlung bei hunden. *Tierärztl. Umschau* 5:460-462. Dec.1950. 41.8 T445
- 21662 MARSHALL, H. C., MOELLER, H. C., and KIRSNER, J. B. Lysozyme production in response to injury of the gastrointestinal tract in dogs. (Abs.) *J. Lab. & Clin. Med.* 36:960. Dec.1950. 448.8 J8233
- 21663 NAGAKURA, Y. Inu no rinsho shoho [The clinical prescription for dogs]. Tokyo, Meibundo, 1950. 206 p. 41 N132
- 21664 NANTA, and others. Les tumeurs vénériennes du chien; cadre nosologique. *Rev. de Méd. Vét.* [Toulouse] 101:298-310,356-366. June-July 1950. 41.8 R32  
Marqués, Lassere, Bazex, Bru, and Puget, joint authors.
- 21665 NUMANS, S. R. Hernia perinealis. (In Dutch.) *Emera Zoa* 57:596. Sept.1950. 41.8 V51  
In dogs.
- 21666 NUMANS, S. R. Spindle cell sarcoma. (In Dutch.) *Emera Zoa* 57:595. Sept.1950. 41.8 V51  
In dog.
- 21667 PERSALL, C. Etiology and physiology of inguinal hernia. *Auburn Vet.* 7:26-27. Fall 1950. 41.8 Aul  
Dogs.
- 21668 POLLOCK, S. Diabetes insipidus in the dog. *Amer. Vet. Med. Assoc. J.* 118:12-15. Jan.1951. 41.8 Am3
- 21669 ROBSON, J. More about the "new look". *New Zeal. Dog World* 5(9):3. Oct.1950. 48.8 N48  
Ear cropping.
- 21670 ROGERS, N. F. Concerning rabies bills. *Human Cult. Digest* 58(12):4-6. Dec.1950. 389.8 V52
- 21671 ROLLE, M., and KALICH, J. Antagonismus und virulenzsteigerung der verschiedenen leptospiraarten und deren praktische bedeutung. Berlin. u. Münch. *Tierärztl. Wchnschr.* 1950:213-216. Oct.1950. 41.8 B45  
Dogs.
- 21672 ROTH, H. Nuevas experiencias sobre la triquinosis con especiales consideraciones sobre la existencia en las regiones árticas. *Rev. de Sanidad Vet.* 5:557-577. Aug.15,1950. 41.8 R3222  
In dogs and wild animals.
- 21673 ROTH-BRUSER. Staupeid zur behandlung der staupe. *Tierärztl. Umschau* 5:459-460. Dec.1950. 41.8 T445
- 21674 RUMNEY, W. J., and SCHOFIELD, F. W. Pulmonary hypertrophic osteo-arthritis (Marie's disease) [in a dog]. *Canad. J. Compar. Med.* 14:385-387. Dec.1950. 41.8 C162
- 21675 SCHLOTTHAUER, C. F., and MILLAR, J. A. S. Diabetes mellitus in dogs and cats; report of nine cases. *Amer. Vet. Med. Assoc. J.* 118:31-35. Ref. Jan.1951. 41.8 Am3
- 21676 SCHNAAS, G. Consideraciones sobre la histeria canina en México. D. F. Campo [Tacuba] (ser.2)18 (704):50,52,54,56-57. Oct.31,1950. 8 C157
- 21677 SCHWABACHER, E. N. The use of an antihistamine drug in a case of tympany [in a dog]. *Vet. Rec.* 62:711-712. Nov.25,1950. 41.8 V641
- 21678 SEDLMEIER, H. Die interstitielle nephritis des hundes eine fokalinfection? Berlin. u. München. *Tierärztl. Wchnschr.* 1950:217-219. Ref. Oct.1950. 41.8 B45
- 21679 SMITH, H. W., and BUXTON, A. Incidence of salmonellae in faeces of dogs suffering from distemper. *Nature [London]* 166:824. Nov.11,1950. 472 N21
- 21680 TEUNISSEN, G. H. B. Effect of estrone and progesterone on the dogs also in connection with the occurrence of endometritis. (In Dutch.) *Tijdschr. v. Diergeneesk.* 75:785-808. Oct.1,1950. 41.8 T431  
English summary.
- 21681 TURNER, P. J. Successful repair of abdominal rupture [in a cat] using the vastus internus muscle. *Vet. Rec.* 62:730. Dec.2,1950. 41.8 V641
- 21682 VAITSMAN, J. Control of rabies in dogs. (In Portuguese.) *Fauna [Sao Paulo]* 9(11):44-45. Nov.1950. 410 F272
- 21683 VERGE, J. Salmonelloses canines et salmonelloses humaines. *Rev. de Path. Compar.* 50:479-482. Ref. July 1950. 448.8 R326
- 21684 WALDMANN, E. B., and WILHELMJ, C. M. Effect of excess salt ingestion upon blood pressure of normal dogs. (Abs.) *Amer. J. Physiol.* 163:758. Dec.1, 1950. 447.8 Am3
- 21685 WERNER, H. J., and ROBERTS, J. H. The harderian gland of the dog in chronic ectopia; a case report. *Amer. Vet. Med. Assoc. J.* 118:16-18. Jan.1951. 41.8 Am3
- 21686 WETZEL, A. Radialislähmung. *Tierärztl. Umschau* 5:444-446. Dec.1950. 41.8 T445  
Treatment of dog.
- 21687 WILHELMJ, C. M., and WALDMANN, E. B. Effect of fasting upon blood pressure and heart rate of normal dogs. (Abs.) *Amer. J. Physiol.* 163:761. Dec.1, 1950. 447.8 Am3
- 21688 ZUCKER, F. A. Aureomycin in leukemia [in cat and dog]. *No. Amer. Vet.* 31:816. Dec.1950. 41.8 N812

#### Miscellaneous

- 21689 COLOMBO, G. A dog lover speaks: Sport or zootechnics? (In Italian.) *Allevatore* 6(32/33):5,7. Aug.20,1950. 49 AL55
- 21690 FARIA, R. DE. Education of pure-bred dogs. (In Portuguese.) *Fauna [Sao Paulo]* 9(11):23. Nov.1950. 410 F272



- 21691 HOLVENSTOT, C. E. What a child gains from a dog; both are at their best when they become a close-knit team. Amer. Kennel Gaz. 68:16-17,299-301. Jan. 1951. 48.8 Am3
- 21692 JUDY, W. How to judge dogs. Dog World [Chicago] 35(12):42-43. (To be cont.) Dec.1950. 48.8 D672
- 21693 JUDY, W. The old dog. Dog World [Chicago] 35(12):4,6,8. Dec.1950. 48.8 D672
- 21694 MAYES, S. H. Your dog reflects yourself; the shaping of his character is in your hands. Amer. Kennel Gaz. 68:20-22,306. Jan.1951. 48.8 Am3
- 21695 MEISTRELL, L. Finding the "bug" in obedience. Amer. Kennel Gaz. 68:18-19,134. Jan.1951. 48.8 Am3
- 21696 MONTER, X. Culto canino. Mundo Canino 3 (36):2,13-14. (To be cont.) Aug.1950. 48.8 M92
- The dog in religion and mythology.
- 21697 TOEPOEL'S hondenencyclopaedie [Toepoel's dog encyclopedia]. Ed. 2, rev. & enl. Amsterdam, Becht, 1950? 560 p. 48 T57H
- 21698 WALKUP, E. L. War dog training continues. Dog World [Chicago] 35(12):29. Dec.1950. 48.8 D672

## FUR ANIMALS - PEN RAISED

### Breeds and Breeding

- 21699 BIOCCA, E., and CERQUIGLINI, S. Observations on artificial insemination of the coypu (*Myocastor coypus*). Note I. Collection of the sperm. (In Italian.) Zootec. e Vet. 5:710-713. Aug.1950. 41.8 Z7
- 21700 IL'INA, E. D. Some data on mating minks. (In Russian.) Karakulevodstvo i Zverovodstvo 3(3):50-54. May/June 1950. 49 K14
- 21701 JOHANSSON, I. Breeding experiments with Blue fox and mink. (In Swedish.) Våra Pälstdjur 1950: 282-285,288-293. Nov.15,1950. 410 V42
- 21702 MARKOV, V. F. Blue polar fox on the Tobolsk fur-animal state farm. (In Russian.) Karakulevodstvo i Zverovodstvo 3(3):79. May/June 1950. 49 K14
- 21703 MOMBORG-JØRGENSEN, H. C. Breeding of fur animals and infertility. (In Danish.) Dansk Pelsdyravl 13:257-258. Dec.1,1950. 412.628 D23
- 21704 WASSERTHAL-ZUCCARI, E. VON. Breeding with recessive mutations. (In Swedish.) Våra Pälstdjur 1950:274-275. Oct.15,1950. 410 V42
- Minks.

### Feeds and Feeding

- 21705 BRAGER-LARSEN, O., and RIMESLATTEN, H. Feeding mink cubs once or twice a day. (In Norwegian.) Norsk Pelsdyrbl. 24:370-371. Nov.20,1950. 412.628 N812
- 21706 GODOY, J. C. Guía y apuntes sobre la alimentación de nutrias en criadero. Argentina. Dir. de Inform. P. Misc. 337,23 p. 1950. 9 P943
- 21707 PEREL'DIK, N. SH., TITOVA, M. I., and MIASNIKOV, V. Z. Norms for experimental feeding of young minks. (In Russian.) Karakulevodstvo i Zverovodstvo 3(3):43-47. May/June 1950. 49 K14
- 21708 TITOVA, M. I. Nutritive value of dried fat-free whey. (In Russian.) Karakulevodstvo i Zverovodstvo 3(3):75-76. May/June 1950. 49 K14
- Used in feeding silver-black foxes.
- 21709 TOVE, S. B., LALOR, R. J., and ELVEHJEM, C. A. Properties of the methanol soluble factor required by the mink. Soc. Expt. Biol. & Med. Proc. 75:71-74. Oct.1950. 442.9 Sol1

### Veterinary Medicine

- 21710 BUZINOV, I. A. Prophylactic principles of infectious diseases in fur-bearing animals. (In Russian.) Karakulevodstvo i Zverovodstvo 3(3):61-63. May/June 1950. 49 K14
- 21711 GUSEV, B. A. "Red-paw disease" of newborn whelps of a silver-black fox. (In Russian.) Karakulevodstvo i Zverovodstvo 3(3):64-66. May/June 1950. 49 K14
- 21712 KEAGY, H. F., and KEAGY, E. H. Epizootic gastroenteritis in chinchillas. Amer. Vet. Med. Assoc. J. 118:35-37. Jan.1951. 41.8 Am3
- 21713 RINDFLEISCH-SEYFARTH, M. Einige skelettunterschiede zwischen sumpfbiber und kaninchen: os femoris und ossa cruris. Lebensmitteltierarzt 1:134-136. Sept.1950. 41.8 L49

- 21714 SHILLINGER, J. E. Fighting disease among fur bearers. Brit. Fur Trade 32:489-490. Dec.1950. 412.628 B77

- 21715 SOMPOLINSKY, D. Urolithiasis in mink. Cornell Vet. 40:367-377. Oct.1950. 41.8 C81
- 21716 STARKOV, I. D. Causes for sterility in sables and measures for controlling it. (In Russian.) Karakulevodstvo i Zverovodstvo 3(3):48-50. May/June 1950. 49 K14
- 21717 TITOVA, M. I. Effect of duration of daylight on metabolism in silver-black foxes. (In Russian.) Karakulevodstvo i Zverovodstvo 3(3):55-56. May/June 1950. 49 K14

### Miscellaneous

- 21718 ENGLAND, G. Don't tamper if you are having success; feed chinchillas simply, keep them dry and keep them clean. Natl. Chinchilla Breeder 6(9):12-13. Nov. 1950. 412.628 N21
- 21719 GREEN, M. B. The founding of an industry; a memorial to the foresight and tenacity of M. F. Chapman, first man to successfully domesticate chinchillas for commercial production. Natl. Chinchilla Breeder 6(10):10-11,21. Dec.1950. 412.628 N21
- 21720 GUNN, C. K. December on the fox ranch. Natl. Fur News 22(11):19. Dec.1950. 412.628 R59
- 21721 PETERSON, S. Continuation of an American letter. (In Swedish.) Våra Pälstdjur 1950:264-267. Oct.15,1950. 410 V42
- Mink farming.
- 21722 STORLEER, G. Care of mink just before skinning season. (In Norwegian.) Norsk Pelsdyrbl. 24:365-366. Nov.20,1950. 412.628 N812
- 21723 SVERIGES PÄLSDJURSUPPFÖDARE RIKS-FÖRBUND. Rules for awarding prizes to fur-bearing animals. (In Sweden.) Våra Pälstdjur 1950:255-257. Oct.15,1950. 410 V42
- 21724 VESELOV, V. I. Results of research at the Central Scientific Research Laboratory of the Fur-Bearing Animal Industry in 1949 and problems of 1950. (In Russian.) Karakulevodstvo i Zverovodstvo 3(3):71-74. May/June 1950. 49 K14
- 21725 ZETTY, M. Fur chewing in chinchillas. Natl. Fur News 22(11):26,38-39. Dec.1950. 412.628 R59

## HORSES AND MULES

### Breeds and Breeding

- 21726 BAREGGI, G. Ten years of experimental activity with artificial insemination in horses; etiology of sterility of the mare, of diseases of the foal, and of development. (In Italian.) Prog. Vet. 5:470-474,476-478. Aug.15/Sept.1,1950. 41.8 P942
- 21727 BELTRAN, J. M. La producción equina en Cataluña. VI. El ganado asnal de raza Catalana. Ganadería [Madrid] 8:539-542. Aug.1950. 49 G15
- 21728 CASTLE, W. E. Albinism is indispensable in Palomino breeding. West. Horseman 15(12):30. Dec. 1950. 42.8 W522
- 21729 COCHRAN, K. The C.T.B.A. [California Thoroughbred Breeders Association] it's history. Thoroughbred Calif. 12:38,40,106,108. (Cont.) Jan.1951. 42.8 T393
- 21730 DEXTER, L. A history of early Vermont Morgans. Vt. Horse & Bridge Trail B. 15:27-29. (Cont.) Jan.1951. 42.8 V59
- 21731 DOWNING, O. L. Yardstick-horseman suggests score card for Quarter Horses. West. Livestock J. 29(6):175-177,180. Dec.15,1950. 6 F2278
- 21732 ERRINGTON, B. J. Pertaining to equines; science is gradually ferreting out the secrets locked in the stallion's sperm and the mare's ovum. Also in this article are related strange cases of fertile mare mules. Thoroughbred Calif. 12:24,96-97. Jan.1951. 42.8 T393
- 21733 GAREIS, M. Hengstparade im Landgestüt Landshut. Tierärztl. Umschau 5:422-423. Nov.1950. 41.8 T445
- 21734 GIUBBILEI, C. The half-blood horse in Italy. (In Italian.) Allevatore 6(32/33):7. Aug.20,1950. 49 AL55
- 21735 GORDON, L. A. Socialist competition on stud farms. (In Russian.) Konevodstvo 20(7):41. July 1950. 42.8 K832
- 21736 HAINES, F. D. Appaloosa horse in history. West. Horseman 16:14-15,37-38. Jan.1951. 42.8 W522
- 21737 HARPER, J. A. Color in the Arab. West. Horseman 16:20-21. Jan.1951. 42.8 W522



- 21738 HARRIS, A. W. The history of the Arabian Horse Club Registry of America, inc., 1908-1950. Chicago, Arabian Horse Club Registry of America, 1950. 64 p. 42 H243H
- 21739 HELLBUSCH, C. E. America's favorite horse. West. Farm Life 53(Annu. Livestock Rev. 1951):151, 153-154. Jan.1, 1951. 6 R153
- The Quarter Horse.
- 21740 HELLBUSCH, C. E. Triple threat; he's good for rodeos, races, cows: the Quarter Horse. West. Livestock J. 29(6):172, 186. Dec.15, 1950. 6 F2278
- 21741 HERSHEY, L. Tough as they come; if you think there's something phony about Quarter Horses, then read this and see. Thoroughbred Rec. 152(25):20, 34-35. Dec.16, 1950. 42.8 T39
- 21742 HOLLAND, A. G. British breeds of livestock. IV. The Shire Horse. Brit. Agr. B. 3:160-163. 1950/51. 10 B776
- 21743 KNOTT, J. E. Let's talk about horses. N. Mex. Stockman 15(11):70-72. Nov.1950. 49 N462
- Thoroughbreds as a breed.
- 21744 LAGUNA SANZ, E. La esterilidad fisiológica de la yegua. Ganadería [Madrid] 8:513-515. Aug.1950. 49 G15
- 21745 LEBEDEV, S. G. On methods of testing Karabair horses. (In Russian.) Konevodstvo 20(7):33-34. July 1950. 42.8 K832
- 21746 LEVIN, V. M. Socialist competition of horse breeders in Soviet White Russia. (In Russian.) Konevodstvo 20(7):39-41. July 1950. 42.8 K832
- 21747 MAHAFFEY, L. W. Studies of fertility in the Thoroughbred mare. I. Introduction. Austral. Vet. J. 26:267-273. Ref. Oct.1950. 41.8 Au72
- 21748 MATSUMOTO, K. Noba shiiku sodan [Information on breeding horses]. Tokyo, Asakura Shoten, 1949. 237 p. 42 M422
- 21749 MOORHOUSE, S. Cleveland Bays; no other breed with quite the same qualifications for "light-heavy" work. Field 196:967. Dec.2, 1950. 10 F45
- 21750 ONTARIO. DEPT. OF AGRICULTURE. STALLION ENROLMENT BOARD. Report, 1950. Toronto, 1950. 40 p. 42.9 On8
- 21751 QUINTERO, A. Los sementales de la Excm. Diputación provincial de Cuenca en la Feria del Campo. Ganadería [Madrid] 8:466-468. July 1950. 49 G15
- 21752 RASMUSSEN, L. The thread of grey. Thoroughbred Calif. 12:28-29, 97. (To be cont.) Jan.1951. 42.8 T393
- Coat color inheritance in Thoroughbreds.
- 21753 SCHAPS, T. Playing with pedigrees. Thoroughbred Calif. 12:36, 104. Jan.1951. 42.8 T393
- 21754 SIEBOLD, D. The Quarter horse—for work-show? West. Live Stock 36(5):74-76. Dec.1950. 49 W523
- 21755 SIMPSON, G. Numbering American tap root mares. Thoroughbred Calif. 12:22-23, 92, 94. Jan.1951. 42.8 T393
- 21756 SOLANET, E. Las crineras y colas en la raza Criolla. Raza Criolla 2(31):8-9, 24-27. 1950. 42.9 As5
- 21757 TROITSKIĬ, B. V. On the industrial relationship of stud farms with collective farm horse breeding. (In Russian.) Konevodstvo 20(7):7-10. July 1950. 42.8 K832
- 21758 VÁZQUEZ, I. De cría caballar; inspección de paradas particulares de sementales equinos. Ganadería [Madrid] 8:524-527, 558. Aug.1950. 49 G15
- Veterinary Medicine
- 21759 AMMANN, K., and ALMASY, F. Histaminblutspiegelbestimmungen beim pferd. Schweiz. Arch. f. Tierheilk. 92:673-695. Ref. Nov.1950. 41.9 Sch9
- English summary.
- 21760 ARAMENDI, M. C. El suero antiaftoso equino en la desviación del complemento (comunicación previa). Gac. Vet. 12:176-178. July/Aug.1950. 41.8 G112
- 21761 ARMSTRONG, F. E. El tétano. Rev. del Café 6(6):5, 34. Nov.1950. 8 R3295
- In horses and other animals.
- 21762 BEHRENS, H., and BRUNING, P. Die blutliquorschranke beim pferd. 3. Der kaliumgehalt der cerebrospinalflüssigkeit und des blutserums. Deut. Tierärztl. Wchnschr. 57:366-367. Nov.15, 1950. 41.8 C482
- 21763 BEIJERS, J. A., LOGHEM, J. J. VAN, and HART, M. VAN DER. Erythroblastosis in foals. (In Dutch.) Tijdschr. v. Diergeneesk. 75:955-970. Dec.1, 1950. 41.8 T431
- English summary.
- 21764 BENTZ, H. Zur ausführung des schwangerschaftsnachweises bei stuten nach Cuboni. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:182-183. Ref. Sept. 1950. 41.8 B45
- 21765 BERTHELOU, M., DRIEUX, H., and TOURNUT, J. Oestrus permanent de la jument dû à une tumeur de la granulosa. Rev. de Méd. Vét. [Toulouse] 101:293-298. June 1950. 41.8 R32
- 21766 BERTHELOU, M., and TOURNUT, J. Persistance des prolans après l'avortement inapparent chez la jument. Rev. de Méd. Vét. [Toulouse] 101:116-118. Mar. 1950. 41.8 R32
- 21767 BIANCHI BAZERQUE, A. Diaforesis por farmacos simpático y parasimpaticomiméticos en el equino. U. de la Repúb. Facul. de Vet. An. 5:205-210. 1948/49. 41.9 M764
- 21768 CASSAMAGNAGHI, A., and CASAMAGNAGHI, A. (HIJO). El primer caso de nuttalliosis comprobado en el Uruguay. U. de la Repúb. Facul. de Vet. An. 5:181-194. 1948/49. 41.9 M764
- Nuttallia equi in a horse.
- 21769 CLOUET. Traitement de l'arthrite des poulains par la pénicilline. Rev. de Méd. Vét. [Toulouse] 101:119-132. Mar.1950. 41.8 R32
- 21770 DARRASPEN, E., TAPERNOUX, A., and VUILLAUME, R. Contribution à l'étude de l'intoxication arsenicale chez le cheval. Rev. de Méd. Vét. [Toulouse] 101:281-293. June 1950. 41.8 R32
- 21771 DAVIS, G. R., and others. The incidence of Brucella agglutinins in horses and their relationship to periodic ophthalmia. Cornell Vet. 40:364-366. Oct.1950. 41.8 C81
- R. M. Wood, J. D. Gadd, and R. E. Kennedy, joint authors.
- 21772 DUPAS. Habronemosis cutánea. Rev. Ganad. [Habana] 10(12):12-13, 45. Dec.1950. 49 R321
- In horses.
- 21773 ESTES, J. A. The mystery of wobblers: is the disease hereditary? Blood-Horse 61:148-149. Jan.20, 1951. 42.8 T392
- 21774 GABRIO, B. W., and SALOMON, K. Distribution of total ferritin in intestine and mesenteric lymph nodes of horses after iron feeding. Soc. Expt. Biol. & Med. Proc. 75:124-127. Oct.1950. 442.9 Sol
- 21775 GALLINA, L. On the diagnosis of pregnancy in the mare and other gynecological-obstetrical questions. (In Italian.) Prog. Vet. 5:480, 483. Aug.15/Sept.1, 1950. 41.8 P942
- 21776 GARMENDIA, E. Examen clínico del pie del caballo. Rev. Ganad. [Habana] 10(12):25-26. Dec.1950. 49 R321
- 21777 GIULIANI, R. The diagnosis of pregnancy in the mare. II. (In Italian.) Riv. di Zootec. 23:277-281. Sept.1950. 49 R52
- 21778 GRANATA, G. Injuries to tendons and ligaments in solipeds. (In Italian.) Rinascita Agr. 5(13):2. May 1, 1950. 281.8 R47
- 21779 HABERMEHL, K. H. Untersuchungen über das vorkommen des schnurrbartes beim pferd. Tierärztl. Umschau 5:453-458. Ref. Dec.1950. 41.8 T445
- 21780 HANSEN, M. F., and TODD, A. C. Preliminary report on the blood picture of the Arabian horse. Amer. Vet. Med. Assoc. J. 118:26-27. Jan.1951. 41.8 Am3
- 21781 HIDIROGLON, M. Treatment of epizootic lymphangitis with formol. Vet. Med. 45:484, 493. Dec.1950. 41.8 M69
- 21782 KASAI, K. Uma no densen-sei henketsu [Equine infectious anemia], v. 2, pt. 2. Tokyo, Yokendo, 1950. 172 p. 41 K152
- 21783 KOCH, P., and FISCHER, H. Einige seltenere fälle von missbildungen. Tierärztl. Umschau 5:349-351. Oct.1950. 41.8 T445
- Foals and calves.
- 21784 KOCH, P., and FISCHER, H. Die Oldenburger fohlenataxie als erbkrankheit. Tierärztl. Umschau 5:317-320. Sept.1950. 41.8 T445
- 21785 KOCHAKIAN, C. D. Protein anabolic activity of pregnant mares' urine. Soc. Expt. Biol. & Med. Proc. 75:543-545. Nov.1950. 442.9 Sol



21786 LEON, J. P. DE, and others. Contribución al estudio clínico y experimental con la Salmonella abortus equi [i.e. abortivoequina]. Rev. de Med. Vet. [Montevideo] 4:849-868. Ref. Mar./June 1949. 41.8 R327

B. Epstein, L. F. Tedesco, and J. C. Piñón, joint authors.

English summary.

21787 LEVINE, N. D. The effects of some iodine compounds on horse strongyle larvae in manure. (Abs.) J. Parasitol. 36(6,sect.2):34-35. Dec.1950. 448.8 J824

21788 LUCAS, A., and others. Germes de sortie dans l'anémie infectieuse du cheval. Rec. de Méd. Vét. 126: 595-601. Oct.1950. 41.8 R24

L. Andral, G. Bouley, A. Paraf, and C. Quinchon, joint authors.

Bacteria found in cadavers.

21789 MCINTOSH, R. A. Swamp fever. Canad. Countryman 39(21):8,41. Oct.14,1950. 7 C833

Equine infectious anemia.

21790 MAGERL, H. Der tierarzt und das pferd. Tierärztl. Umschau 5:375-376. Oct.1950. 41.8 T445

21791 MAKSIĆ, D., and BECK, E. "Mandaverm" (Asta-Werke, Brackwede) ein neues spulwurmmittel beim pferd. Deut. Tierärztl. Wchnschr. 57:348-349. Nov.1, 1950. 41.8 C482

21792 MILLER, J. H. Radiation therapy in the treatment of lameness in a horse. Vet. Med. 45:506-507. Dec.1950. 41.8 M69

21793 MORALES OTERO, P. El muermo. Rev. del Café 6(6):6. Nov.1950. 8 R3295

21794 MORRIS, J. A., and ALEXANDER, A. D. Attempts to adapt equine infectious anemia virus to small animals. Cornell Vet. 40:381-383. Oct.1950. 41.8 C81

21795 OL'DENBORGER, A. A. Interrelations between pain sensations of the skin and abortions in mares. (In Russian.) Konevodstvo 20(7):19-20. July 1950. 42.8 K832

21796 PUGET, E. Sur les affections du "syndrome colique" chez les équidés. Rev. de Méd. Vét. [Toulouse] 101:142-154. Mar.1950. 41.8 R32

21797 RANDALL, C. C., MCVICKAR, D. L., and DOLL, E. R. A complement fixation test for equine virus abortion. Soc. Expt. Biol. & Med. Proc. 75:465-468. Nov.1950. 442.9 S01

21798 RICHTER, W. Zur differentialdiagnose der ansteckenden blutarmut bei serumpferden. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:235-236. Nov.1950. 41.8 B45

21799 SCHEBITZ, H., and HARTWIGK, H. Myositis sarcosporidica beim pferd. Tierärztl. Umschau 5:351-353. Oct.1950. 41.8 T445

21800 SCHMIDT, K. Scheidenplastik bei stuten. Tierärztl. Umschau 5:354-355. Oct.1950. 41.8 T445

21801 SHEETZ, H. O. Aureomycin in the treatment of strangles. Vet. Med. 46:38-39. Jan.1951. 41.8 M69

21802 SMITH, R. E. The vet says: a horse is only as good as his feet. Morgan Horse Mag. 10(6):14-15. Dec. 1950. 42.8 M82

21803 STURGE, L. M., WHITTAKER, V. P., and MOUNTER, L. A. The esterases of horse blood. 1-2. Biochem. J. 47:518-530. Ref. Nov./Dec.1950. 382 B52

1, by L. M. Sturge, and V. P. Whittaker; 2, by L. A. Mounter, and V. P. Whittaker.

21804 THESING, B. Beitrag zur aetiologie und therapie des stelzfusses der fohlen. Tierärztl. Umschau 5:322-324. Sept.1950. 41.8 T445

21805 VERGE, J., and CAUCHY, L. L'avortement à ultra-virus chez les équidés. Cahiers de Méd. Vét. 18: 65-73. Ref. May/June 1950. 41.8 C11

21806 WESTPHAL, W. Ausscheidungstuberkulose mit sekundärer urinogener nierentuberkulose bei einem pferd. Tierärztl. Umschau 5:353-354. Oct.1950. 41.8 T445

21807 WIETHE, H. Der zeitpunkt der ersten ovulation bei warmblut-fohlenstuten. Landwirt. Jahrb. f. Bayern 27(5/6):85-99. Ref. Sept./Oct.1950. 18 L24

#### Miscellaneous

21808 AALTO, O. Growth of Finnish suckling foals. (In Swedish.) Forsk.- och Försöksresultat 2:43. Sept.30, 1950. 20 F77

21809 BARKER, E. B. Training the young horse. Vt. Horse & Bridle Trail B. 15:2-4. Jan.1951. 42.8 V59

21810 BERKEY, B. The dawn horse and its evolution. Our Dumb Anim. 83(12):9. Dec.1950. 48.8 O07

21811 CARSON, B. L. An American's impressions of horse and horse shows of the Netherlands. Natl. Horseman 86(12):17,158-159. Dec.1950. 42.8 N21

21812 CARSON, B. L. Equine art on the postage stamp. Natl. Horseman 86(12):28. Dec.1950. 42.8 N21

21813 IVANOV, M. S. In regard to methods of testing draft horses. (In Russian.) Konevodstvo 20(7):21-20. July 1950. 42.8 K832

21814 KARLSEN, G. G. On the proper utilization of horses in work on collective farms. (In Russian.) Konevodstvo 20(7):1-6. July 1950. 42.8 K832

21815 KOZHEVNIKOV, E., and BLAZHKEVICH, F. Further extension of socialist competition in horse raising. (In Russian.) Konevodstvo 20(7):36-38. July 1950. 42.8 K832

21816 OWEN, M. Further notes on raising a foal. Vt. Horse & Bridle Trail B. 15:6-7,38. Jan.1951. 42.8 V59

21817 RIKLIN. Etwas über pferdemarkt und pferdehandel. Grüne 78:397-399. Apr.14,1950. 17 Sch9 Switzerland.

21818 SPEED, J. G., and ETHERINGTON, M. G. A note on the history of British horses in the light of recent investigations. Vet. Rec. 62:624-625. Nov.11,1950. 41.8 V641

21819 SPROULE, J. Modern horse training. Canad. Cattlemen 14:18-19. Jan.1951. 49 C16

21820 SPROULE, J. There's no such thing as an "outlaw" horse. Farm & Ranch Rev. 46(12):8-10. Dec. 1950. 7 F223

Training horses.

21821 THOMSON, T. E. Steeds of destiny. Canad. Geog. J. 41:240-251. Dec.1950. 470 C162

Horses in art and history.

21822 TURIN, A. I. A leading horse-breeding farm [in Tagaïsk District, Uliánovsk Region]. (In Russian.) Konevodstvo 20(7):10-13. July 1950. 42.8 K832

#### LABORATORY ANIMALS, SMALL

##### Veterinary Medicine

21823 LYMAN, C. P., and CHATFIELD, P. O. Hibernation. Sci. Amer. 183(6):18-21. Dec.1950. 470 Sci25

Includes hamsters.

21824 PFEIFER, H. Die brauchbarkeit des Syrischen goldhamsters als versuchstier zum nachweis der abortus-Bang-infektion in der milch. Tierärztl. Umschau 5:412-415. Nov.1950. 41.8 T445

21825 REAGAN, R. L., HICKMAN, J. W., and BRUECKNER, A. L. Morphological observations by electron microscopy of Newcastle virus in the spinal cord of hamsters infected by various routes. Cornell Vet. 40: 392-397. Ref. Oct.1950. 41.8 C81

##### Miscellaneous

21826 SPERA, L. Raising small rodents for laboratory animals. (In Italian.) Terra e Sole 97:307-309. Sept.1950. 16 T273

#### POULTRY

##### Breeds and Breeding

21827 ALEXANDER, A. K. S. Broad-breasted Bronze in Scotland. Farmer & Stock-Breeder 64:3153. Dec.5, 1950. 10 F228

21828 BARCELO GARCIA DE PAREDES, A. La selección fisiológica de ponedoras en avicultura. Balearic Isl. Diputación Prov. B. de Agr. 73:4-5. Oct.1950. 15 B19

21829 BELL, A. E. Reciprocal selection may open new paths in breeding progress. (Sum.) Poultryman 20 (20):8. Jan.5,1951. 286.85 P86

21830 BLOW, W. L., and others. Strain-crossing for hybrid vigor. Res. & Farming [N. C. Sta.] 9(2):13-14. Autumn 1950. 100 N81R

E. W. Glazener, C. H. Bostian, and R. S. Dearstyne, joint authors.

Chiefly poultry.

21831 BONNET, L. No increase in production for 700 years. Poultry [London] 107:459. Dec.5,1950. 47.8 P869

Breeding system.

21832 DIETRICH, I. W. Raising pigeons. Standard Rabbit J. 24(4):3. Jan.1951. 40.28 St2

Breeding.

21833 FRIESLAND, H. VAN. Poultry breeding. (In Dutch.) Pluimveeteelt 3(26):4. Dec.8,1950. 47.8 P722



- 21934 GERICKE, A. M. Poultry breeding. Trans-keian Ter. Agr. Dept. Umcebisi Womlimi Nomfuyi 27(4): 51,53-54. Nov.1950. 24 T684
- 21935 HEINZ, Ur- und kampf-hühner sind vitalitäts-träger. Eier-, Wild-, Geflügel- u. Honig-Markt 2(46):6. Nov.18,1950. 280.38 E13
- 21936 HEISDORF, A. Reciprocal recurrent selection. Poultry Digest 10(107):6-10. Jan.1951. 47.8 N219 Genetics.
- 21937 HOFFMAN, E. Good layers and broilers from same parent stock? East. Feed Merchant 2:21-22. Jan.1951. 389.78 Ea7
- 21938 HOOGENDOORN, J. Can't we see the forest for the trees? (In Dutch.) Pluimveeteelt 3(23):1-2. Oct. 27,1950. 47.8 P722 Poultry breeding.
- 21939 IRVIN, G. Hybrid poultry development. Purdue Agr. 42(3):7. Dec.1950. 6 P97
- 21940 JACOBY, W. F.F.A. boys help hatcheryman breed for better broilers. Everybodys Poultry Mag. 56: 30-31. Jan.1951. 47.8 F213P
- 21941 LARIMORE, J. R. The different colors in Gazzi Modenas. Amer. Pigeon J. 39:364-365,372-373. Dec.1950. 47.8 Am35
- 21942 LEGENDRE, G. Quelle orientation donner à nos coquelets? J. de la France Agr. 6:1235. Nov.24/30, 1950. 14 829
- 21943 LLOYD, E. A. Ten years' breeding at UBC [University of British Columbia] for meat types. B. C. Farmer & Gard. 5(17):5,14. Nov.1950. 7 F86
- 21944 LOGMAN, H. The most important qualities of the Holle Cropper. (In Dutch.) Pels en Pluim 5(24):4. (To be cont.) Dec.1,1950. 47.8 P36
- 21945 LOGMAN, H. Some particulars on the modern English Turbit. (In Dutch.) Pels en Pluim 5(20):5. Oct. 20,1950. 47.8 P36
- 21946 MCKENZIE, W. B. Raising fancy pigeons in New Zealand. Amer. Pigeon J. 39:364. Dec.1950. 47.8 Am35 Breeds.
- 21947 MACKLIN, H. P. Pigeon portraits. Amer. Pigeon J. 39:360-361,40:6-9. Dec.1950-Jan.1951. 47.8 Am35
- The Latz or Breast Pigeon. II; the Chinese Owl.
- 21948 MARTIN, W. W. Hybrid hens gain ground in the West. West. Farm Life 53(1):6,18. Jan.1,1951. 6 R153
- 21949 MAUDE, H. English judge's views on Australian poultry. Poultry Farmer [Sydney] 18(19):25-26. Nov.4,1950. 280.28 Or32 Breeds.
- 21950 MAUDE, H. Stock improvement and balanced breeding. Poultry Farmer [Sydney] 18(24):21. Dec.9, 1950. 280.28 Or32
- 21951 MAY, C. G. Bantams for eggs. Ed. 3. London, Poultry World, 1950? 40 p. 47 M45
- 21952 PONSIGNON, M. Sélection génétique par le pedigree ou par le génotype? Vie à la Campagne 39:335-336,373-374. Oct.-Nov.1950. 80 V67 Poultry.
- 21953 RICHARDSON, T. C. Breeding creates hybrid aristocracy of the poultry world. Farmer-Stockman 53 (12):38-39. Dec.1950. 6 Ok45
- 21954 ROOS, M. J. The inbreeding problem. III-IV. (In Dutch.) Pluimveeteelt 3(22):4;(24):5. Oct.13, Nov.10, 1950. 47.8 P722
- 21955 SCOTT, H. M., and others. The "shaker" fowl; a sex-linked semi-lethal nervous disorder. J. Hered. 41: 255-257. Oct.1950. 442.8 Am3
- C. C. Morrill, J. O. Alberts, and E. Roberts, joint authors.
- 21956 SKALLER, F., and GRIGG, G. W. The effect of orally administered synthetic oestrogen (hexoestrol) on the male fowl. Austral. J. Agr. Res. 1:496-516. Ref. Oct.1950. 23 Au783
- 21957 SMITH, M. K. Why I breed White [Holland] turkeys. Farmer & Stock-Breeder 64:3155. Dec.5,1950. 10 F228
- 21958 SMYTH, J. R., JR. Cross selection—or reciprocal recurrent selection or nickability. N. H. Breeder 13(4):14-15,31. Dec.1950/Jan.1951. 47.8 N45 Genetics.
- 21959 TORTORELLI, N. Observations on the White Leghorn breed in the Tavoliere delle Puglie in an exceptionally unfavorable year. (In Italian.) Riv. di Zootec. 23: 296-299. Sept.1950. 40 R52
- 21960 VEENSTRA, J. A. Orloffs; a Russian chicken breed. (In Dutch.) Pels en Pluim 5(24):7. Dec.1,1950. 47.8 P36
- 21961 VRIES, DE. The Australorp. (In Dutch.) Pluimveeteelt 3(26):5. Dec.8,1950. 47.8 P722
- 21962 WEAVER, L. E. How good are poultry crosses? N. Y. Agr. Col. Ext. Cornell Feed Serv. 29:13-14. Nov.1950. 275.29 N48Cf

## Feeds and Feeding

- 21963 ANDERSON, E. E. Economy—a "must" in poultry feeding. N. Mex. Stockman 15(12):64. Dec.1950. 49 N462
- 21964 BEARSE, G. E. Recent developments in the nutrition of the laying hen. Feedstuffs 22(51):48-49,52. Dec.23,1950. 286.81 F322
- 21965 BENK, E. Über die herstellung von eierlege-pulvern. Seifen-Öle-Fette-Wachse 76:501-502. Oct.25, 1950. 307.8 Se4 Calcium carbonate products.
- 21966 BERG, L. R., and others. The effect of removing supplemental aureomycin from the ration on the subsequent growth of chicks. Arch. Biochem. 29:404-407. Dec.1950. 381 Ar2
- G. E. Bearse, J. McGinnis, and V. L. Miller, joint authors.
- 21967 BIRD, H. R. What the feed doctor ordered. Poultry Tribune 57:13,22,24. Jan.1951. 47.8 P8642
- 21968 COLES, R. Feeding for more profitable table bird production. Mod. Poultry Keeping 63:588-589. Dec.13,1950. 47.8 Eg3
- 21969 COMMON, R. H., and others. Modification of the biochemical responses of the immature pullet to oestrogen by means of dietary aureomycin. Nature [London] 166:992-993. Dec.9,1950. 47.8 N21
- T. J. Keefe, R. Burgess, and W. A. Maw, joint authors.
- 21970 CRAVENS, W. W. Poultry nutrition report. Amer. Egg & Poultry Rev. 11(12):2-3,61. Dec.1950. 47.8 Am38
- 21971 CRAVENS, W. W. Vitamin B<sub>12</sub> and the antibiotics in nutrition. Feedstuffs 22(49):54-56. Dec.9,1950. 286.81 F322 Poultry.
- 21972 DOMINGUES, O. Hens also "graze." (In Portuguese.) Seleg. Agr. 5(54):19-20. Oct.1950. 9.2 Se4
- 21973 ENGELMANN, W. Wie das huhn sein futter wählt und beurteilt. Deut. Wirtgeflügelzucht. 3:76. Nov.18,1950. 47.8 D483
- 21974 FANGAUF, R. Der APF-faktor—vitamin B<sub>12</sub>-kondensierte fischbrühe - was bedeuten sie für die geflügelzucht-praxis? Deut. Wirtgeflügelzucht. 3:128. (To be cont.) Dec.16,1950. 47.8 D483
- 21975 FRITZ, J. C. Poultry science review. Flour & Feed 51(7):34. Dec.1950. 298.8 F66 Nutrition.
- 21976 GILLIS, M. B. Role in chick nutrition of betaine, choline, methionine. (Sum.) Milling & Feed 31(11): 18-19. Nov.1950. 298.8 C162
- 21977 GRATON, A. Connaissez-vous la différence entre la moulée complète et une ration équilibrée? B. des Agr. 46(11):15,53. Nov.1950. 7 B872 Poultry.
- 21978 HILL, F. W., and others. Antibiotic supplements in poultry feeding. N. Y. Agr. Col. Ext. Cornell Feed Serv. 29:9-10. Nov.1950. 275.29 N48Cf
- G. F. Heuser, M. L. Scott and L. C. Norris, joint authors.
- 21979 HØIE, J. Experiments with herring meal for chickens. (In Norwegian.) Landbruksstidende 56:850-851. Oct.25,1950. 11 L236
- 21980 JOHNSON, E. L. Minerals in poultry feeds. Flour & Feed 51(7):24. Dec.1950. 298.8 F66
- 21981 JOHNSON, E. L. Nutritional requirements of poultry. (Abs.) Westernnews 12(3):6-7. Nov.1950. 389.78 W522
- 21982 JOHNSTON, T. E. Feed grinders with wings; comments on the constant struggle to balance egg production and quality. Org. Farmer 2(5):39-41. Dec.1950. 57.8 Or3
- 21983 LLOYD-THOMAS, W. Don't treat geese like cockerels. Mod. Poultry Keeping 63:503. Nov.22,1950. 47.8 Eg3 Fattening.
- 21984 MCGINNIS, J., and LEONG, K. C. Essential nature of methionine for egg production. Down to Earth 6(3):5-6. Winter 1950. 381 D75
- 21985 MCKINNON, S. Surplus spuds for waterfowl. Mag. Ducks & Geese 1(4):11. Fall 1950. 47.8 M27 Feed for ducks.



- 21886 MEHNER, A. Was ist absolutes hühnerfutter? Deut. Wirtgeflügelzucht. 3:125-126. Dec.16,1950. 47.8 D483
- 21887 MESCHINI, C. Fattening of the capon for Christmas. (In Italian.) Terra e Sole 99:377. Nov.1950. 16 T273
- 21888 NORRIS, L. C., HEUSER, G. F., and MILLER, R. F. The amount of vitamin B<sub>12</sub> needed by chickens. N. Y. Agr. Col. Ext. Cornell Feed Serv. 29:10-12. Nov. 1950. 275.29 N48Cf
- 21889 NORRIS, L. C., MILLER, R. F., and YACOWITZ, H. Vitamin B<sub>12</sub> needs of chickens. Flour & Feed 51(7):8-9. Dec.1950. 298.8 F66
- 21890 NORRIS, L. C. What are folic acid, B-12 requirements of chickens? (Excerpts.) West. Feed & Seed 5(12):16-17,21,28. Dec.1950. 389.78 W52
- 21891 OLESON, J. J., HUTCHINGS, B. L., and WHITEHILL, A. R. The effect of feeding aureomycin on the vitamin B<sub>12</sub> requirement of the chick. Arch. Biochem. 29:334-338. Ref. Dec.1950. 381 Ar2
- 21892 PARRY, G. Role des vitamines dans le développement des poussins. Rev. Agr. de l'Afrique du Nord 48:777-778. Oct.20,1950. 80 R326
- 21893 PEELE, F. E. Last lap in the production of the Christmas turkey; the main thing now is to keep them eating. Mod. Poultry Keeping 63:479. Nov.15,1950. 47.8 Eg3
- 21894 RAIMO, H. F. Practical aspects of the feeding of poultry. (In Portuguese.) Colheita e Mercados 6:25-29. Jan./Feb.1950. 255.3 Sa652
- 21895 REED, J. R., and COUCH, J. R. The efficacy of different APF concentrates for chicks. Poultry Sci. 29:897-902. Ref. Nov.1950. 47.8 Am33P
- 21896 REED, J. R., and COUCH, J. R. Vitamin B<sub>12</sub> and APF concentrates in the nutrition of the growing chick. (Abs.) Poultry Sci. 29:776-777. Sept.1950. 47.8 Am33P
- 21897 SCHLAMB, K. F., and BRYANT, R. L. Methionine and chick growth. N. Dak. Agr. Expt. Sta. Bimon. B. 13:67-69. Nov./Dec.1950. 100 N813B
- 21898 SCOTT, M. L. Turkey rations. N. Y. Agr. Col. Ext. Cornell Feed Serv. 29:12-13. Nov.1950. 275.29 N48Cf
- 21899 TOMEY, A. The golden egg. Farmers Wk. [London] 33(23):65. Dec.3,1950. 10 F2226
- Poultry feeding.

#### Veterinary Medicine

- 21900 ACKERT, J. E., and DEWHIRST, L. W. Resistance of fowls to parasitism affected by female sex hormone. (Abs.) J. Parasitol. 36(6,sect.2):16. Dec.1950. 448.8 J824
- Ascaridia galli.
- 21901 ADSESEN, V. On the control of poultry diseases. (In Danish.) Tidsskr. f. Fjerkræavl 72:89-90. May 1,1950. 47.8 T43
- 21902 AGENJO CECILIA, C. Modernos métodos de curación en la lucha contra el catarro de las aves y la coccidiosis de los polluelos y pavipollos. Dominican Republic. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 12 (189):10-14. July/Sept.1950. 8 R323
- 21903 ARAGON LEIVA, P. Diarrea blanca de las aves de corral. Tierra [Mexico] 5:538-540,568-571. (To be cont.) Oct.1950. 8 T445
- 21904 BAKKER, S. Immunization against fowl cholera with an attenuated vaccine. (In Dutch.) Tijdschr. v. Diergeneesk. 75:815-826. Oct.15,1950. 41.8 T431
- English summary.
- 21905 BEARD, D., and others. Particulate component of plasma from fowls with avian erythro-myeloblastic leucosis. Soc. Expt. Biol. & Med. Proc. 75:533-536. Ref. Nov.1950. 442.9 S01
- E. A. Eckert, T. Z. Csáky, D. G. Sharp, and J. W. Beard, joint authors.
- 21906 BEARD, W. A. Starting a poultry practice. No. Amer. Vet. 32:41-42. Jan.1951. 41.8 N812
- 21907 BEAUDETTE, F. R. Recent literature on avian pneumoencephalitis (Newcastle disease). (Abs.) Vet. Med. 46:19-20. Jan.1951. 41.8 M69
- 21908 BECKER, E. R., and SCHWINK, T. M. The position of protective and sparing factors in the protein component of the plasma of ducks recovered from Plasmodium lophurae infection. (Abs.) J. Parasitol. 36(6,sect.2):23. Dec.1950. 448.8 J824

- 21909 BENOIT, J., WALTER, F. X., and ASSEN-MACHER, I. Nouvelles recherches relatives à l'action de lumières de différentes longueurs d'onde sur la gonadostimulation du canard mâle impubère. Soc. de Biol. Compt. Rend. 144:1206-1211. Sept.1950. 442.9 P21
- 21910 BIELEFELDT, J. DetrenA increases the vitamin D content of eggs. (In Danish.) Andelsbladet 51:1354-1355. Nov.16,1950. 280.28 An2
- 21911 BIVINS, J. A., MILLER, B. R., and BEAUDETTE, F. R. Search for virus in eggs laid during recovery postinoculation with Newcastle disease virus. Amer. J. Vet. Res. 11:426-427. Oct.1950. 41.8 Am3A
- 21912 BLIECK, L. DE. The treatment of coryza infectiosa gallinarum type II (Nelson) with streptomycin. Vet. Rec. 62:787. Dec.16,1950. 41.8 V641
- 21913 BOLTON, W. Free and combined riboflavin in the blood serum of oestrogenized fowls. Nature [London] 166:912-913. Nov.25,1950. 472 N21
- 21914 BONADUCE, A. Contribution to the knowledge of the latency of the pox virus in pigeons. (In Italian.) Zooprofilassi 5:321-324,327-329. Ref. July 1950. 41.8 Z72
- French summary.
- 21915 BOTTOROFF, C., TENNISON, L. B., and MARKHAM, F. Intranasal avian pneumoencephalitis vaccine and its use. (Abs.) Vet. Med. 46:20. Jan.1951. 41.8 M69
- 21916 BÜCK, G., and QUESNEL, J. J. Peste aviaire (maladie de Newcastle) et vaccination antipestique aviaire à Madagascar. Acad. Vét. de France. B. 23:451-455. Oct.1950. 41.9 R24
- 21917 BURKE, K. A. The role of methionine as a methyl donor for the synthesis of choline in the chick. Mich. U. Microfilm Abs. 10(4):8-9. 1950. 241.8 M58
- 21918 CASAROSA, L. Acuariosis (or dyspharyngosis) of chickens. II. Anatomico-histo-pathological contributions. (In Italian.) Zooprofilassi 5:330,333-343. July 1950. 41.8 Z72
- French summary.
- Parasitism by Acuaris spp.
- 21919 CHERNIN, E. The relapse phenomenon in Leucocytozoon simondi infections in domestic ducks. (Abs.) J. Parasitol. 36(6,sect.2):22-23. Dec.1950. 448.8 J824
- 21920 DARCEL, C. L. Studies on the avian leucosis complex. Vet. Rec. 62:621-622. Ref. Nov.11,1950. 41.8 V641
- 21921 DAUGHERTY, J. W. Carbohydrate metabolism in chickens infected with Eimeria tenella. (Abs.) J. Parasitol. 36(6,sect.2):42. Dec.1950. 448.8 J824
- 21922 DEARSTYNE, R. S., and others. When Newcastle strikes. Res. & Farming [N. C. Sta.] 9(2):10-11. Autumn 1950. 100 N81R
- H. L. Lucas, E. W. Glazener, and W. L. Blow, joint authors.
- Egg production losses.
- 21923 DEMNITZ, A., and SCHNEIDER, B. Die differentialdiagnose zwischen der klassischen und atypischen geflügelpest mit hilfe der hämagglutinationshemmung. Monatsh. f. Prakt. Tierheilk. 2:205-208. 1950. 41.8 M74
- 21924 DIAZ MONTILLA, R. La mortalidad en avicultura. B. de Divulg. Ganad. [Valladolid] 7:165-168. June 1950. 49.9 Sp12
- 21925 DROSAN. Enfermedades avícolas: la coccidiosis. Ceres [Valladolid] 15(17):31-33. Dec.1,1950. 15 C33
- 21926 EDGAR, G. The incidence of avian tuberculosis in New South Wales. Austral. Vet. J. 26:278-282. Oct.1950. 41.8 Au72
- Includes discussion.
- 21927 FADDOUL, G. P., and RINGROSE, R. C. Avian keratoconjunctivitis. Vet. Med. 45:492-493. Dec. 1950. 41.8 M69
- 21928 FALLIS, A. M., DAVIES, D. M., and VICKERS, M. Natural and artificial infections with Leucocytozoon simondi Mathis and Léger in ducks. (Abs.) J. Parasitol. 36(6,sect.2):22. Dec.1950. 448.8 J824
- 21929 FREUDENBERG, H. Zum nachweis der immunität bei atypischer geflügelpest. Berlin u. Münch. Tierärztl. Wchnschr. 1950:233-235. Ref. Nov.1950. 41.8 B45
- 21930 GAFFAR, S. M., and ACKERT, J. E. Deficiencies of certain minerals as factors in resistance of chickens to parasitism [by Ascaridia galli]. (Abs.) J. Parasitol. 36(6,sect.2):38. Dec.1950. 448.8 J824



- 21931 GALLEG0 PIEDRAFITA, J. Un programa de control para las enfermedades respiratorias aviares. B. de Zootecnia 6:275-277. Aug.1,1950. 41.9 So16
- 21932 GIAJA, J., and JOVANIĆ, L. Les oxydations au cours de la vie embryonnaire du poulet. Acad. Serbe des Sci. Cl. des Sci. Math. et Nat. B. Sci. Nat. (n.s.)1: 118-124. 1950. 510 B45
- 21933 GIL FORTÚN, F. Los tumores y el complejo de leucosis aviar. B. de Divulg. Ganad. [Valladolid] 7:155-159. June 1950. 49.9 Sp12
- 21934 GOLDSBY, A. I., and EVELETH, D. F. Pseudomoniasis, a disease of poultry. N. Dak. Agr. Expt. Sta. Bimon. B. 13:59-61. Ref. Nov./Dec.1950. 100 N813B
- 21935 GÓMEZ N., J. Moquillo. Rev. de Agr., Com. e Indus. [Panama] 8(110):35-36. Oct.1950. 8 R3291 In poultry.
- 21936 GORDON, R. F. An epidemic can start in the incubator room! The need for hatchery hygiene. Mod. Poultry Keeping 63:558-559. Dec.6,1950. 47.8 Eg3
- 21937 GORET, P., FERRANDO, R., and ROUMET, P. La sulfamidothérapie de la pasteurellose et des salmonelloses aviaires. Essais de traitement de la pullorose par la sulfaméthylpyrimidine (sulfaméthylidiazine, sulfamérazine, sumédine). Cahiers de Méd. Vét. 18:33-47. Mar./Apr.1950. 41.8 C11
- 21938 GRUMBLES, L. C., and BONEY, W. A. JR. Infectious sinusitis of turkeys. (Abs.) Vet. Med. 46:22. Jan.1951. 41.8 M69
- 21939 GRUMBLES, L. C., and BONEY, W. A., JR. Laboratory examination of poultry specimens. Tex. Agr. Expt. Sta. Prog. Rpt. 1302, 3 p. Dec.18,1950. 100 T31P A diagnostic service for the poultrymen of Texas.
- 21940 GUSTAFSON, D. P., and MOSES, H. E. Isolation of Newcastle disease virus from the eye of a human being. Amer. Vet. Med. Assoc. J. 118:1-2. Jan.1951. 41.8 Am3
- 21941 HAMPE, A. Sur la continuation de la première poussée de cordons sexuels mâles, chez l'embryon de poulet, sous l'influence des injections d'hormone femelle. Arch. d'Anat. Micros. et de Morph. Expt. 39:35-62. Ref. 1950. 444.8 Ar21
- 21942 HAWKINS, P. A. Coccidiosis of the turkey. (Abs.) J. Parasitol. 36(6,sect.2):42-43. Dec.1950. 448.8 J824
- 21943 HAYS, F. A., and SPEAR, E. W. Embryonic death rate and sex ratio in chicks. Science 112:792. Dec.29,1950. 470 Sci2
- 21944 HERRICK, C. A. The effect of cecal coccidiosis on the metabolic rate of chickens. (Abs.) J. Parasitol. 36(6,sect.2):42. Dec.1950. 448.8 J824
- 21945 HITCHNER, S. B., REISING, G., and VAN ROEKEL, H. Intranasal vaccine: its role in an avian pneumoencephalitis control program. (Abs.) Vet. Med. 46:21. Jan.1951. 41.8 M69
- 21946 HITCHNER, S. B. Intranasal vaccine must be used correctly. Broiler Growing 2:58-59. Jan.1951. 47.8 B782
- For Newcastle disease.
- 21947 HUGHES, D. L. Turkey breeders—there are troubles other than blackhead; a symposium on turkey diseases. Poultry Field 3(16):12-13,17. Dec.21,1950. 47.8 P8655
- 21948 JOHNSON, C. A., and HERRICK, C. A. Some relationships between the respiratory rate of cecal mucosa and resistance of chickens to cecal coccidiosis. (Abs.) J. Parasitol. 36(6,sect.2):42. Dec.1950. 448.8 J824
- 21949 JOHNSON, E. P. Now we have "air sac colds". Broiler Growing 2:12,26. Jan.1951. 47.8 B782
- 21950 JOHNSON, E. P. Twenty years of poultry disease research at VPI [Virginia Polytechnic Institute]. Soeast. Poultryman 3(12):6,12-16. Dec.1950. 47.8 So872
- Also in Va. Poultryman 4(12):6,12-16. Dec.1950. 47.8 V812
- 21951 KOUTZ, F. R. Coccidiosis organisms survive winter-exposure. Ohio Farm & Home Res. [Ohio Sta.] 35: 68-69. Sept./Oct.1950. 100 Oh35
- Chicken coccidiosis.
- 21952 LEE, C. D. Poultry diseases. (Extr.) Iowa Vet. 21(6):18,20,22. Nov./Dec.1950. 41.8 Io9
- 21953 LEE, C. E. How practical are antibiotics? Everybodys Poultry Mag. 56:10,32-35. Jan.1951. 47.8 F213P
- 21954 LUCAM, F. Recherches sur la séro-prévention, la séro-vaccination et la sérothérapie, en milieu infecté de peste aviaire. Rev. de Méd. Vét. [Toulouse] 101:169-182. Ref. Apr.1950. 41.8 R32
- 21955 MCCAPE, A. M. Field trials in the treatment of infectious sinusitis in turkeys. Calif. Vet. 4(2):15. Nov./Dec.1950. 41.8 C12
- 21956 MARTÍ GÜELL, S. E. La peste de las aves, la enfermedad de Newcastle y la laringotraqueitis infecciosa de las aves de corral. Rev. de Sanidad Vet. 5:687-689. Oct.15,1950. 41.8 R3222
- 21957 MARTINI, I., and KURJANA, R. Newcastle disease (Pseudovogelpest) experiments on an attenuated Indonesian virus. Hemera Zoa 57:557-571. Sept.1950. 41.8 V57
- 21958 MILLER, B. Hormonized chickens; chemical synthetics offer hope for practical caponization. Agrarian 10:15. Nov.1950. 276.8 Ag8
- 21959 MONSON, W. J., DIETRICH, L. S., and ELVEHJEM, C. A. Studies on the effect of different carbohydrates on chick growth. Soc. Expt. Biol. & Med. Proc. 75:256-259. Ref. Oct.1950. 442.9 So1
- 21960 MOORE, E. N., and BROWN, J. A. The effect of nitrofurazone on normal and coccidiosis infected turkeys. (Abs.) J. Parasitol. 36(6,sect.2):43. Dec.1950. 448.8 J824
- 21961 NECHVATAL, W. Praxisbericht über das virus N. Tierärztl. Umschau 5:329-330. Sept.1950. 41.8 T445
- Fowl pest.
- 21962 NEUMAN, R. E. Hydroxyproline content of the developing chick embryo. Soc. Expt. Biol. & Med. Proc. 75:37-39. Oct.1950. 442.9 So1
- 21963 OLSON, N. O. A respiratory disease (bronchitis) of quail caused by a virus. (Abs.) Vet. Med. 46:22. Jan.1951. 41.8 M69
- 21964 OLVERA HERRERA, M. Castración química de los pollos. Tierra [Mexico] 5:599-600. Nov.1950. 8 T445
- 21965 OSEBOLD, J. W., DICKINSON, E. M., and BABCOCK, W. E. Immunization of turkeys against Erysipelothrix rhusiopathiae with avirulent live culture. Cornell Vet. 40:387-391. Oct.1950. 41.8 C81
- 21966 PARKS, R. R. Leucosis; is it a disease? Everybodys Poultry Mag. 56:14,41-45. Jan.1951. 47.8 F213P
- Includes diet deficiencies.
- 21967 PERUCHON, J. Ce qu'il faut croire du chaponnage hormonal des coqs. Réveil Agr. 59:344-345. Nov.15,1950. 14 R322
- 21968 PETERSON, J. E. Coccidiosis of fowls. West. Austral. Dept. Agr. J. (ser.2)27:143-149. June 1950. 23 W52J
- 21969 PHILIP, B., LAGERMALM, G., and GRALEN, N. Surface structure of feathers from the white domestic fowl. Nature [London] 166:1070-1071. Dec.23,1950. 472 N21
- 21970 POMEROY, B. S. Management of the breeder flock. Minn. Gobblers 5(7):6,19. Dec.1950. 47.38 M66
- Includes sinusitis.
- 21971 POULTRY ASSOCIATION OF GT. BRIT. Could it be fowl pox? Mod. Poultry Keeping 63:523. Nov.29, 1950. 47.8 Eg3
- 21972 PRITZL, G. Embryonalentwicklung in unbrüteten hühnerleibern. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:223-224. Oct.1950. 41.8 B45
- 21973 REAGAN, R. L., BRUECKNER, A. L., and DELAPLANE, J. P. Morphological observations by electron microscopy of the viruses of infectious bronchitis of chickens and the chronic respiratory disease of turkeys. Cornell Vet. 40:384-386. Oct.1950. 41.8 C81
- 21974 RINDFLEISCH-SEYFARTH, M. Über die laufsoren der Phasianiden, insbesondere der haushühner, und ihre biologische und veterinärmedizinische beurteilung. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:239-242. Ref. 1950. 41.8 B45
- 21975 ROBERTS, C. S. Diagnostic notes; Salmonella gallinarum infection in a flock of turkeys. Auburn Vet. 7: 25-26. Fall 1950. 41.8 Au1
- 21976 ROBIN, A. H. Avian tuberculosis. Austral. Vet. J. 26:274-278. Oct.1950. 41.8 Au72
- South Australia.
- 21977 ROMJUN, C. Investigations on the metabolism of chickens. 3. The influence of anti-thyroid substances on the metabolism. (In Dutch.) Tijdschr. v. Diergeneesk. 75:839-856. Nov.1,1950. 41.8 T431
- English summary.
- Use of methylthiouracil, etc.
- 21978 SASSENHOFF, I. Eine neuartige enzootisch auftretende lufttröhrenentzündung bei hühnern. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:224-226. Ref. Oct. 1950. 41.8 B45



- 21979 SIVERTZ, G. Ottawa fumbles in Newcastle problem. *B. C. Farmer & Gard.* 5(17):3. Nov.1950. 7 F86
- 21980 TODD, A. C., and others. Age differences in virulence of *Ascaridia galli* eggs. *Amer. Micros. Soc. Trans.* 69:394-397. Oct.1950. 440.9 Am33
- M. F. Hansen, G. W. Kelley, and Z. N. Wyant, joint authors.  
Effect on weight of chicks.
- 21981 TODD, A. C., and others. Susceptibility of hybrid and standard-bred chicks exposed to infection by the tapeworm *Raillietina cesticillus* (Molin, 1858). *Amer. Micros. Soc. Trans.* 69:353-356. Oct.1950. 440.9 Am33
- M. F. Hansen, G. W. Kelley, and Z. N. Wyant, joint authors.
- 21982 TRENCHI, H. La importancia de la sanidad en la explotación de las aves. I-II. Uruguay. Min. de Ganad. y Agr. B. Inform. 344:11-12;345:10. Oct.26-Nov.2, 1950. 9.9 G15B
- 21983 TRENCHI, H. *Raillietina* (*Raillietina*) *tetragona* (Molin, 1858). *Rev. de Med. Vet. [Montevideo]* 4: 872-876. Ref. *Mar./June 1949.* 41.8 R327
- Parasite of poultry.
- 21984 TUGWELL, R. L., and ACKERT, J. E. Further studies on the tissue phase of the life cycle of *Ascaridia galli*. (Abs.) *J. Parasitol.* 36(6,sect.2):16. Dec.1950. 448.8 J824
- 21985 VAN ROEKEL, H., and others. Significant observations in pullorum disease eradication. (Abs.) *Vet. Med.* 46:18-19. Jan.1951. 41.8 M69
- K. L. Bullis, G. H. Snoeyenbos, M. K. Clarke, and O. S. Flint, joint authors.
- 21986 WEIDENMÜLLER, H. Über die diagnose der atypischen geflügelpest und die verwendung eines frisch-blutestes. *Berlin u. Münch. Tierärztl. Wchnschr.* 1950: 178-180. Ref. *Sept.1950.* 41.8 B45
- 21987 WEIDENMÜLLER, H. Zur frage der infektiösität und pathogenität des virus N (hühnerpest). II. Die pathogenität des virus N für küken, weisse mäuse und tauben. *Tierärztl. Umschau* 5:327-329. Sept.1950. 41.8 T445
- 21988 WEINSTOCK, M. Vaccination and "colds." *Atlantic Co. Vocat. B.* 25,1.e.30(3):1-2. Dec.1950. 6 At62
- Powl pox, laryngotracheitis and Newcastle disease.
- 21989 WISCONSIN, UNIVERSITY. COLLEGE OF AGRICULTURE. DEPT. OF VETERINARY SCIENCE. Avian trichomoniasis. *Wis. Agr. Col. Ext. Stencil C.* 323, 4 p. July 1950. 275.29 W75B
- 21990 YOUNGNER, J. S., WARD, E. N., and SALK, J. E. Effect of 5-amino-7-hydroxy-1H-v-triazolo (d) pyrimidine [guanazolo] on growth and development of the chick embryo. *Soc. Expt. Biol. & Med. Proc.* 75:157-161. Oct.1950. 442.9 Soc1
- Miscellaneous
- 21991 AGENJO CECILIA, C. Influencia del arquetipo de los concursos en el progreso avícola. B. de Divulg. Ganad. [Valladolid] 7:150-154. June 1950. 49.9 Sp12
- 21992 AGENJO CECILIA, C. Orientaciones y problemas de la granja avícola. *Ganadería [Madrid]* 8: 528-529. Aug.1950. 49 G15
- 21993 BAILEY, V. B., and CISNEROS, G. Pollitos y cómo criarlos. *Cent. Nac. de Agron. C. Agr.* 19,11 p. Aug.1950. 8 Sa54C
- 21994 BENSON, T. A. Mistakes in poultry keeping. *Canad. Countryman* 39(21):42-44. Oct.14,1950. 7 C833
- 21995 BIDWELL, J. Bird in the cage worth two on ground. *Fla. Grower* 58(12):10,15. Dec.1950. 80 F6622
- Poultry.
- 21996 BLACKWELL, H. L. Incubation insight. *Farmers Wk. [London]* 33(22):75. Dec.1,1950. 10 F2226
- The essentials of hatchery practices.
- 21997 BOGGS, L. C. Handy ideas for turkey range equipment. *Washcoegg* 28(4):9. Sept.1950. 47.8 W27
- 21998 CARPENTER, A. W. Internal culling—it can revolutionize the poultry business. *East. Feed Merchant* 1(12):12-13,51. Dec.1950. 389.78 Ea7
- 21999 CARPENTER, D. J. Egg-eating losses; suggests alterations to nest boxes. *Poultry World* 87:263. Nov.16,1950. 47.8 P8682
- 22000 CARPENTER, D. J. Training to-morrow's poultrymen; instruction given at Kesteven Farm Institute is having good results. *Poultry World* 87:316. Nov.30, 1950. 47.8 P8682
- 22001 CARPENTER, M. Lessons of the poultry show. *Field* 196:994-995. Dec.9,1950. 10 F45
- 22002 CHARTERIS, R. L. Who says progeny testing is new! *Poultry World* 87:261. Nov.16,1950. 47.8 P8682
- 22003 CLARK, T. B. West Virginia has a [poultry] meat improvement program. *Broiler Growing* 2:18,51-53. Jan.1951. 47.8 B782
- Testing and selection.
- 22004 COLES, R. Are birds better for being kept on grass? *Mod. Poultry Keeping* 63:504-505. Nov.22,1950. 47.8 Eg3
- 22005 COLES, R. Choice of a poultry system; intensive and extensive methods—folds, colony houses, batteries, deep litter systems, hen yards—and the conditions they suit best. *Farmer & Stock-Breeder Ybk.* 1951: 217-221. 49 F22
- 22006 DAKAN, E. L. Cages didn't work in Ohio, but, they're staging a comeback in sunny California. *Ohio Farmer* 206(11):8-9. Dec.2,1950. 6 Oh3
- Battery system for poultry.
- 22007 DAVIN, J. A. A modern world with ancient fanciers. *Amer. Pigeon J.* 39:356-358. Dec.1950. 47.8 Am35
- Raising pigeons.
- 22008 FERNÁNDEZ, H. La avicultura en el Concurso Nacional de Ganados. *Ganadería [Madrid]* 8:496-497. July 1950. 49 G15
- Spain.
- 22009 FINN, H. R. Poultry on the general farm. *Poultry Field* 3(16):6-7. Dec.21,1950. 47.8 P8655
- 22010 GARCÍA DE PAREDES, A. B. Si pudiésemos leer y retener todo lo que se escribe sobre avicultura. *Ganadería [Madrid]* 8:549. Aug.1950. 49 G15
- 22011 GILMAN, W. His turkeys go modern. *New Eng. Homestead* 123(22):6-7. Nov.25,1950. 6 N442
- Management of a turkey farm in Vermont.
- 22012 GINSBERG, A. Poultry-killing and processing. *East African Agr. J.* 16:59-60. July 1950. 24 Ea74
- 22013 GLASER, L. Winter care of geese. *Org. Farmer* 2(5):27-29. Dec.1950. 57.8 Or3
- 22014 GOBBI, E. J., and PEROTTI, R. M. La cría del pavo. *Bolsa de Com., Rosario. Rev.* 38(933):7-14. Nov.30,1950. 287 R71
- 22015 GORDEUK, A. Shenandoah area is full of variety. *Broiler Growing* 2:13,41-44. Jan.1951. 47.8 B782
- 22016 GRIFFIN, H. P. What it takes to win at a major turkey show. *Turkey World* 25(12):44,121-123. Dec.1950. 47.38 T84
- 22017 GUICHARD, A. La cría artificial de pollos. *Agronomía [Habana]* (ser.2)10(10):6-7,17. Nov.1950. 8 C893
- 22018 HALL, M. D. The best time to hatch chickens. *Victoria. Dept. Agr. J.* 48:403-404. Sept.1950. 23 V66J
- 22019 HALL, M. D. Burnley Egg-Laying Competition. *Victoria. Dept. Agr. J.* 48:401-402. Sept.1950. 23 V66J
- 22020 HALL, M. D. Chicken raising; housing and feeding. *Victoria. Dept. Agr. J.* 48:395-400. Sept.1950. 23 V66J
- 22021 HEANEY, S. Chicken-of-Tomorrow contests spread barnyard revolution. *Goodyear Farm Prog.* 6(4): 6. Nov.1950. 6 G63
- 22022 HEUSER, G. F. Artificial light for layers. *N. Y. Agr. Col. Ext. Cornell Feed Serv.* 29:15. Nov.1950. 275.29 N48Cf
- 22023 HOEKSTRA, P. Is your bookcase up to the mark. VIII. Poultry keeping. (In Dutch.) *Hemera Zoa* 57:597-603. Sept.1950. 41.8 V51
- 22024 HORNER, F. Towards better stock. *Mod. Poultry Keeping* 63:480-481. Nov.15,1950. 47.8 Eg3
- Care and feeding.
- 22025 HOUT, F. VAN. The final result of the fifteenth national official laying contest at Roselare. (In Flemish.) *Cult. en Handel* 16:682-683. Nov.1950. 80 C892
- 22026 HOUT, F. VAN. Pigeon raising in Belgium. I. (In Flemish.) *Cult. en Handel* 16:760-762. Dec.1950. 80 C892
- 22027 JENKINS, W. R. Selecting for egg production: past, present and future. *Utah. State Agr. Col. Ext. B.* 186,11 p. June 1950. 275.29 Uti
- 22028 JENNINGS, J. From one young man to another What is the best system? What are the problems? Youth speaks to youth, giving the would-be poultry farmer the benefit of personal experience. *Mod. Poultry Keeping* 63: 550. Dec.6,1950. 47.8 Eg3
- Great Britain.



- 22029 JOHNSON, E. A. Raising pullets for production. *Coop. Poultryman* 15(12):3,5. Dec.1950. 47.8 C782
- 22030 KENNEY, S. M. Maintaining winter production. *New Eng. Homestead* 123(24):10. Dec.23,1950. 6 N442 Egg production.
- 22031 KOENING, W. Calendario esquemático para la explotación avícola. *Campo [La Paz]* 4(38/39):53-56. June/July 1950. 9.1 C15
- 22032 LATORRE GLAUSER, L. La determinación del sexo en los polluelos por el método japonés. *B. de Zootecnia* 6:289-302. Sept.1,1950. 41.9 So16
- 22033 LESTER, J. Turkeys are good business. *Mont. Farmer-Stockman* 38(6):1,12-13. Nov.15,1950. 6 M764
- Management of a turkey farm in Powell County, Montana.
- 22034 LIEBENBERG, C. R. Selection of pullets for winter production. *Transkelan Ter. Agr. Dept. Umcebisi Womlimi Nomfuyi* 27(3):46-47,49. Aug.1950. 24 T684
- 22035 LISSOT, G. Oies et canards. *Paris, Flammarion*, 1950. 236 p. (La Terre; Encyclopédie Paysanne) 47.1 L69
- 22036 LIVET, L. Le secret des fortes pontes. *Paysan Franc.* 26(395):9-10. Nov.1950. 14 P29
- 22037 MCCARDLE, A. A. Laying stage hints. *So. Austral. Dept. Agr. J.* 54:143-144. Oct.1950. 23 So84
- Care of poultry at the laying stage.
- 22038 MCIVER, W. L. Selecting young pullets for the household poultry flock. *New Zeal. J. Agr.* 81:331-332. Oct.1950. 23 N48J
- 22039 MATSUKAWA, K. Korekara no yokei [Poultry-farming in the future]. *Tokyo, Azumi Shobo*, 1950. 296 p. 47 M42
- 22040 MOORE, A. C. 500-bird breeders advised to turn their attention to cages. *Poultry [London]* 107:456. Dec.5,1950. 47.8 P869
- 22041 NATIONAL FARMERS' UNION. The register of records in laying trials, v. 24, 1949-50 trials. *London*, 1950? 34 p. 47.9 N218
- 22042 OLSSON, N. Raising geese formerly and now. (In Swedish.) *Lantmannen* 34:869-871. Nov.11,1950. 11 L234
- 22043 ONÇA, A. DA. "Useful" advice for failing in poultry raising. (In Portuguese.) *Chacaras e Quintais* 82:597-598. Nov.15,1950. 9.2 C34
- 22044 POWELL-OWEN, W. Less temperament, more eggs. *Poultry World* 87:264. Nov.16,1950. 47.8 P8682
- 22045 RAGIONERI, C. Three fixed points for rural poultry keeping; to create a stock of poultry sufficient for production. (In Italian.) *Allevatore* 6(41):7. Oct.15, 1950. 49 AL55
- 22046 ROWE, J. E. Folds don't mean slavery! *Mod. Poultry Keeping* 63:451. Nov.8,1950. 47.8 Eg3
- 22047 SALZWEDEL, H. Ist es möglich, hühner zur zurücklegung grösserer wegstrecken zu veranlassen? *Deut. Wirtgeflügelzucht* 3:127. Dec.16,1950. 47.8 D483
- 22048 SANBURY, A. Eye condition in relation to vitality and egg production. *Canada Poultryman* 37(12):9-11. Dec.1950. 47.8 C166
- Culling.
- Also in *Poultry Digest* 10(107):42-44. Jan.1951. 47.8 N219
- 22049 SERRE, L. Poussins sexés ou non? *Agr. Prat.* 114:555-556. Dec.1950. 14 J82
- 22050 SOULE, C. M. Beginning a new year with the turkey flock. *Canad. Poultry Rev.* 75:41-43. Jan.1951. 47.8 C16
- 22051 STEPHENSON, A. B. Supplemental oxygen increases the hatchability of eggs at high altitudes. *Farm & Home Sci. [Utah Sta.]* 11:65,95-96. Dec.1950. 100 UH1F
- 22052 SZEPESEY, I. Goose production in Hungary. *Mag. Ducks & Geese* 1(4):5. Fall 1950. 47.8 M27
- 22053 TAYLOR, L. J. Last "look-over" for ducks. *Mod. Poultry Keeping* 63:531. Nov.29,1950. 47.8 Eg3
- Culling.
- 22054 TAYLOR, R. W. Squab raising for profit and pleasure. *Amer. Pigeon J.* 39:358-359. Dec.1950. 47.8 Am35
- 22055 THOMPSON, W. C. Better quality chicks for 1951. *Rural New-Yorker* 100:850. Dec.16,1950. 6 R88
- 22056 THOMPSON, W. C. Poultry litters. *N. J. Agr. Expt. Sta. Hints Poultrymen* 33(3),4 p. Nov.1950. 100 N468
- 22057 U. S. BUR. OF ANIMAL INDUSTRY. The National Turkey Improvement Plan. *U. S. D. A. Misc. P.* 555,rev.,38 p. June 1950. 1 Ag84M
- 22058 VIVES, M. La avicultura en Andalucía: la supremacía de Utrera en selecciones. *Aliment. Nac.* 10(176):8-10. Sept.25,1950. 389.8 AL42
- 22059 WASHINGTON, STATE COLLEGE. POULTRY COUNCIL. Nests and their care. *Wash. State Col. Ext. B.* 335,10 p. June 1950. (Poultry Pointers 30, rev.) 275.29 W27Pou
- 22060 WHITTLE, T. E. Nine points for progeny testing. *Mod. Poultry Keeping* 63:480-481. Nov.15,1950. 47.8 Eg3
- 22061 WILSON, J. D. Rearing turkeys. *Countryman [Burford]* 42:340-341. Winter 1950. 281.28 C832
- 22062 WINTER, A. R. Possible value of built-up poultry litter discussed. *Feedstuffs* 22(50):45-47. Dec.16,1950. 286.81 F322

## RABBITS

## Breeds and Breeding

- 22063 BEHNKEN, D. My experience with Silver Martens. *Small Stock Mag.* 35:25. Jan.1951. 48.8 P442
- 22064 BRADSHOW, R. P. Angoras—a farm animal? *Angora Rabbit Mag.* 5(12):1. Sept.1950. 40.28 An42
- 22065 CRAIG, L. C. Angoras for both wool and meat. *Amer. Angora Mag.* 4(15/16):3. Dec.1950/Jan.1951. 40.28 Am32
- 22066 EARNSHAW, C. The Belgian hare. *Natl. Rabbit Illus.* 1950:8-9. Nov.1950. 40.28 N21
- 22067 FEHR, J. C. AR&CBA standards. *Small Stock Mag.* 34(12):26-27. Dec.1950. 48.8 P442
- 22068 GYLE-THOMPSON, H. Hit-and-miss methods do not produce winners, and—champion to champion—does not produce winners. *Natl. Rabbit Illus.* 1950:15. Nov. 1950. 40.28 N21
- 22069 MONTMAGNY, C. DE. Un élevage-type de lapins reproducteurs. *Vie à la Campagne* 39:357-359. Nov.1950. 80 V67
- 22070 RIU, E. Triez le poil d'Angora au cours de l'épilage. *Vie à la Campagne* 39:336. Oct.1950. 80 V67
- 22071 ROBINSON, R. Genetics. *Natl. Rabbit Illus.* 1950:17. Nov.1950. 40.28 N21
- 22072 SEARL, B. Practical breeding for color and markings in the fancy. *Small Stock Mag.* 35:33. Jan.1951. 48.8 P442
- Synopsis of lecture.
- 22073 SHIRREFF, W. H. Breeding suggestions. *Angora Rabbit Mag.* 5(12):2. Sept.1950. 40.28 An42
- 22074 SUMMERSCALES, J. A. The English rabbit. *Natl. Rabbit Illus.* 1950:12-13. Nov.1950. 40.28 N21
- 22075 VEENSTRA, J. A. Fertility of rabbits and winter feeding. (In Dutch.) *Pels en Pluim* 5(24):5. Dec.1, 1950. 47.8 P36
- 22076 WINFIELD, L. G. Start right with your Flemish. *Small Stock Mag.* 35:36-37. Jan.1951. 48.8 P442

## Feeds and Feeding

- 22077 SANDFORD, J. C. The nutrition of the rabbit. *III. Natl. Rabbit Illus.* 1950:11. Nov.1950. 40.28 N21
- 22078 TEMPLETON, G. S. Yeast culture in rabbit rations. *Small Stock Mag.* 34(12):16. Dec.1950. 48.8 P442

## Veterinary Medicine

- 22079 ANDERSON, H. C., and MCCARTY, M. The occurrence in the rabbit of an acute phase protein analogous to human C-reactive protein. *J. Expt. Med.* 93: 25-36. Ref. Jan.1,1951. 448.8 J822
- 22080 CHANG, M. C. Der gegenwärtige stand der säugetierei-transplantation. *Wien. Tierärztl. Monatsschr* 37:913-918. Ref. Dec.1950. 41.8 T345
- Chiefly rabbits.
- 22081 FISHBERG, A. M., and others. Beta-hyperglobulinemia produced by cholesterol feeding in the rabbit. *Soc. Expt. Biol. & Med. Proc.* 75:301-303. Oct. 1950. 442.9 So1
- L. Friedfeld, I. Hoffman, E. R. Stoller, and E. H. Fishberg, joint authors.
- 22082 JAFFÉ, W. G. La toxicidad de las caraoas crudas para conejos. *Acta Cient. Venezol.* 1:16-17. May/June 1950. 475 Ac83



- 22083 KRAJICEK, B. E.** Treatment of abscesses and sore hocks. *Small Stock Mag.* 34(12):25. Dec.1950. 48.8 P442  
Rabbits.
- 22084 MAXWELL, E.** Nightshade again. *Amer. Angora Mag.* 4(15/16):4. Dec.1950/Jan.1951. 40.28 Am32  
Nightshade poisoning of rabbits.
- 22085 MORRIS, B.** The structure of the foetal yolk-sac splanchnopleur of the rabbit. *Q. J. Micros. Sci.* 91: 237-249. Sept.1950. 440.8 Q2
- 22086 OLCSE, O.** "Reintestación" o "coprofagia funcional", un proceso fisiológico normal recientemente descubierto en el conejo. *Agronomía [Lima]* 15(63):55-63. Ref. Sept./Oct.1950. 9.8 Ag83  
English summary.
- 22087 PARRY, H. J.** The vascular structure of the extra-placental uterine mucosa of the rabbit. *J. Endocrinol.* 7:88-99. Ref., Nov.1950. 448.8 J8293
- 22088 STEWART, J. M.** Effect of barbiturate anesthesia on potassium metabolism of the rabbit and dog. *Amer. J. Physiol.* 163:622-632. Ref. Dec.1,1950. 447.8 Am3
- 22089 TERRY, C. J.** Castration—safe and simple. *Angora Rabbit Mag.* 5(12):5. Sept.1950. 40.28 An42
- 22090 VENGE, O.** Important scientific methods. Superovulation and transplantation of fertilized eggs. (In Swedish.) *Lantmannen* 34:975-977. Dec.16,1950. 11 L234  
Chiefly rabbits.
- Miscellaneous**
- 22091 BORDOUX, J.** Some things I have observed. *Small Stock Mag.* 34(12):13. Dec.1950. 48.8 P442  
Rabbit care and management.
- 22092 DIETZ, A. T.** 1949 rabbit management study, Los Angeles County, Calif. *Small Stock Mag.* 34(12):3-5. Dec.1950. 46.8 P442
- 22093 HARGREAVES, J.** She's had them! *Natl. Rabbit Illus.* 1950:18. Nov.1950. 40.28 N21  
Handling the litter.
- 22094 KELLOGG, C. E.** How the Federal Government serves the rabbit industry. *Amer. Angora Mag.* 4(15/16): 4,6. (To be cont.) Dec.1950/Jan.1951. 40.28 Am32
- 22095 KILBY, A. F. A. F.** Kilby calls for service aggressive?—perhaps. Progressive?—definitely! *Natl. Rabbit Illus.* 1950:5. Nov.1950. 40.28 N21  
Rabbit shows in England.
- 22096 MIKHAILOV, P. N.** For a profitable rabbit raising industry. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(3):57-59. May/June 1950. 49 K14  
On the state farms of U.S.S.R.
- 22097 OBREGON LEIVA, P.** Cría del conejo doméstico. *Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr.* 12(189):9. July/Sept.1950. 8 R323
- 22098 WATSON, A.** Bits and pieces. *Natl. Rabbit Illus.* 1950:19. Nov.1950. 40.28 N21  
Judging.
- 22099 WINFIELD, L. G.** Raise rabbits on your farm. *Amer. Rabbit J.* 20:180-181. Dec.1950. 40.28 Am3
- SHEEP AND GOATS**
- Breeds and Breeding**
- 22100 BANDINI, M.** Land improvement and sheep breeding. (In Italian.) *Allevatore* 6(32/33):1-2. Aug.20, 1950. 49 AL55
- 22101 BRØNSTAD, O. O.** Is the Dala sheep to be knuckled down and hidden under a chair in Trøndelag? (In Norwegian.) *Landbrukstidende* 56:852. Oct.25,1950. 11 L236
- 22102 CASA PACHECO, MARQUÉS DE.** El ganado lanar Manchego en la I Feria Nacional del Campo. *Ganadería [Madrid]* 8:536. Aug.1950. 49 G15
- 22103 ELLIOTT, E. A.** Hornless Dorset Horn sheep at Temora Experiment Farm. *Agr. Gaz. N. S. Wales* 61: 587-588. Nov.1,1950. 23 N472
- 22104 ESPLIN, A. L.** Will hormones increase yearly lamb crop? *Rec. Stockman, Annu. Ed.* (1951)61(52):40. Dec.28,1950. 49 D43
- 22105 FISHER, O. C.** A visit to the original home of the Angora goat in Turkey. *Sheep & Goat Raiser* 31(3):14-16. Dec.1950. 45.8 Sh3
- 22106 FORREST, A. J.** Suffolk sheep. *Estate Mag.* 50:446-451. Nov.1950. 10 Es8
- 22107 HAFEZ, E. S. E.** Sexual season of the ewe and daylight environment. *Nature [London]* 166:822-823. Nov.11,1950. 472 N21
- 22108 HELLBUSCH, C. E.** New Mexico sheepman proves Karakuls fit western ranges. *West. Farm Life* 53(Annu. Livestock Rev. 1951):86,88,90-91. Jan.1,1951. 6 R153
- 22109 HOCKLEY, J.** Border Leicesters. *Agr. Gaz. N. S. Wales* 61:565-566. Nov.1,1950. 23 N472
- 22110 JOHNSTON, H. B.** Points of the Romney—selection of the ram. *Wool* 1(3):15,17. 1950/51. 45.8 W887
- 22111 KELLEY, R. B.** Inheritance of skin folding (wrinkling) of sheep. *Austral. J. Agr. Res.* 1:471-495. Oct.1950. 23 Au783
- 22112 LASLEY, E. L., BUCHANAN, M. L., and LIGHT, M. R.** Effect of sires on grade ewe flocks. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:50-53. Nov./Dec.1950. 100 N813B
- 22113 LOPEZ ARIAS, A.** La raza Lincoln en la producción lechera. *Bolsa de Com., Rosario. Rev.* 38(931): 5-6,8-9. Oct.31,1950. 287 R71
- 22114 MILLER, J. C.** Sheep and goat breeding studies. *Tex. Agr. Col. Ext. Extensioner* 36(12):11. Oct. 1950. 275.29 T312F
- 22115 NARANJO BATMALE, F.** El ganado lanar manchego en la Feria del Campo; Impresiones de un concurso. *Ganadería [Madrid]* 8:477-479. July 1950. 49 G15
- 22116 ORTAVANT, R.** L'insemination artificielle des brebis et des juments. *Chambre d'Agr. de Casablanca. B.* 21(234):13,15,17. Oct.1950. 24 C26
- 22117 PAUL, S.** Kirtton flock of Suffolks, a popular and productive breed which has created a world-wide demand. *Field* 196:997-998. Dec.9,1950. 10 F45
- 22118 PEREGON, I. L.** Results of experiment on developing multiple-birth Karakul sheep. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(3):25-34. May/June 1950. 49 K14
- 22119 POPE, L. S.** Future problems for the pure-bred breeder. *Sheepman* 21:317,340. (Cont.) Jan.1951. 45.8 Sh32
- 22120 PRINCE-SMITH, SIR W.** Leicester long wools; a hardy, dual purpose breed which crosses well. *Field* 196:915-916. Nov.25,1950. 10 F45
- 22121 SANDBURG, MRS. C., and others.** The practical goatkeeper - on imported goats. *Better Goatkeeping* 6:1245-1246. Aug.1950. 40.18 B46  
W. Ernst, F. B. Keifer, and A. L. Rogers, joint authors. Breeding and selection.
- 22122 TORTORELLI, N.** Sheep of the Churra di Castiglia breed in Italy. (In Italian.) *Riv. di Zootec.* 23: 330-333. Oct.1950. 49 R52
- 22123 TRIULZI, G. A.** The Langhe race of sheep. (In Italian.) *Riv. di Zootec.* 23:295-296. Sept.1950. 49 R52
- 22124 TRUE, L. G.** Inbreeding experiments give heavier lambs, better ewes. *West. Farm Life* 53(Annu. Livestock Rev. 1951):178,187. Jan.1,1951. 6 R153
- 22125 TSUKINO, S.** Menyo no kankata to kako-ho [Practical method of breeding the sheep and manufacturing its products]. Tokyo, Taibunkan, 1949. 307 p. 45 T78
- 22126 VAN DER MERWE, J. H.** Further discussion on expert sheep service; a recommendation that the National Ram Breeders' Association employ experts. *Merino Breeders' J.* 12(4):9,7. Oct.1950. 45.8 So8  
Text also in Afrikaans.
- 22127 ZELENSKI, G., and MISHAREV, S.** Orenburg-skaia pukhovata koza [Orenburg downy goat]. Chkalov? Chkalovskoe Izd-vo, 1949. 78 p. 40.1 Z3
- 22128 ZHANDERKIN, A. I.** New breed of sheep—Kazakh Arkharomerinos and prospects for its development. (In Russian.) *Priroda* 39(8):44-49. Aug.1950. 410 P933
- Feeds and Feeding**
- 22129 ALONSO MUÑOZ, A.** Piensos de recurso para nuestra cabaña lanar. Ramón de olivo, hojas de vid. *B. de Divulg. Ganad. [Valladolid]* 7:138-149. June 1950. 49.9 Sp12
- 22130 COLBY, R. W., RAU, F. A., and DUNN, R. C.** Effect of feeding aureomycin to fattening lambs. *Soc. Expt. Biol. & Med. Proc.* 75:234-236. Oct.1950. 442.9 Sol
- 22131 DAVISON, D. N., KEITH, T. B., and HICKMAN, C. W.** Concentrate and alfalfa hay ratios for growing and fattening Idaho lambs. *Idaho. Agr. Expt. Sta. B.* 281,8 p. Sept.1950. 100 Id1



22132 DUCURTIL, F. Rentré de transhumance; je suis au pâturage avec les moutons. Colon. Franç. de Tunisie 60(2174):1-2. Dec.2,1950. 24 C712

22133 IAKIMOVA, E. D. To organize the proper grazing of [Karakul] sheep during the summer period. (In Russian.) Karakulevodstvo i Zverovodstvo 3(3):10-12. May/June 1950. 49 K14

22134 LEVECK, H. H. Finishing lambs on winter pasture. Miss. Agr. Expt. Sta. Inform. Sheet 455, 2 p. Oct.1950. 100 M69In

22135 MCCLYMONT, G. L., and SAVAGE, B. M. Salt licks for sheep. Agr. Gaz. N. S. Wales 61:534. Oct.2, 1950. 23 N472

22136 RECHENTHIN, C. A. Ranchmen find that irrigated pastures pay. Sheep & Goat Raiser 31(3):30-32. Dec.1950. 45.8 Sh3

22137 SHREVE, R. L. Birdsfoot trefoil superior to ladino clover in Solano fat lamb test. - Calif. Wool Grower 26(52):7. Dec.26,1950. 45.8 C12

22138 SOLHEIM, K. Is it a protein or a vitamin that is active in flushing to increase the number of lambs. (In Norwegian.) Norsk Landbr. 16:452. Nov.24,1950. 11 N8122

#### Veterinary Medicine

22139 ACOSTA, O. (HIJO), and FIELTIZ LANDIVAR, F. Presentación de un caso de nefromegalia cysto-esclerosante total, en un lanar (*Ovis aries*) perteneciente a la faena del Frigorífico Nacional. U. de la Repúb. Facul. de Vet. An. 5:261-264. 1948/49. 41.9 M764

22140 AULT, C. N. La caída de la lana. Agr. Austral 18:445-447. Oct.1950. 9.3 Ag842  
In sheep.

22141 AVER'IANOV, I. IA. On changes in the quality of Karakul pelts during the process of hair growth and curl development. (In Russian.) Karakulevodstvo i Zverovodstvo 3(3):13-24. May/June 1950. 49 K14

22142 BALDWIN, E. M., JR. Enterotoxemia of sheep and its control. Vet. Med. 45:473-476. Ref. Dec.1950. 41.8 M69

22143 BECK, A. B. Studies on the excretion of oestrogens by pregnant ewes. Austral. J. Agr. Res. 1:322-337. Ref. July 1950. 23 Au783

22144 BECKER, D. E., and SMITH, S. E. A chemical and morphological study of normal sheep blood. Cornell Vet. 40:350-356. Ref. Oct.1950. 41.8 C81

22145 BELSCHNER, H. G. Worms of sheep. N. S. Wales. Dept. Agr. Div. Anim. Indus. Dis. Anim. L.1,22 p. 1949. 41.9 N473D

22146 BENGOCHEA, J. A. Parasitosis gastrointestinal de los ovinos. Uruguay. Min. de Ganad. y Agr. B. Inform. 345:12. Nov.2,1950. 9.9 G15B

22147 CECCARELLI, A., and FONTANELLI, E. On the varied appearance of the immune reactions visible in serological tests; research with the virus of contagious agalactia of sheep and goats. (In Italian.) Zooprofilassi 5:489-501. Nov.1950. 41.8 Z72

English summary.

Complement fixation test.

22148 DECKWER, N. Zur tuberkulose der ziegen. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:243-244. Nov.1950. 41.8 B45

22149 DIAZ UNGRIA, C. La tembladera. B. de Divulg. Ganad. [Valladolid] 7:176-179. June 1950. 49.9 Sp12

22150 DURBIN, C. Protostrongylus rufescens in domestic sheep, *Ovis aries*, in the United States. (Abs.) J. Parasitol. 36(6,sect.2):38. Dec.1950. 448.8 J824

22151 DYKSTRA, R. R. Recent developments in ailments of sheep and goats. Sheep & Goat Raiser 31(3):18-19. Dec.1950. 45.8 Sh3

I, Tapeworms; II, Spraying vs. dipping; III, Enterotoxemia; IV, Ulcerations; V, Listerellosis; VI, Breeding problems.

22152 FETHERS, G. Lamb marking; the need for critical investigations. Past. Rev. 60:940-941. Sept.16, 1950. 23 Au75

Castration.

22153 FETHERS, G. Shortage of phenothiazine for worm treatment; some suggested alternatives. Past. Rev. 60:1209-1210. Nov.16,1950. 23 Au75  
Worms in sheep

22154 HANSEN, M. F., TODD, A. C., and KELLEY, G. W. Effects of a pure infection of the tapeworm *Monilezia expansa*, on lambs. (Abs.) J. Parasitol. 36(6,sect.2):45. Dec.1950. 448.8 J824

22155 HARDY, W. T., and PRICE, D. A. Pregnancy disease of sheep. Sheep & Goat Raiser 31(3):26. Dec. 1950. 45.8 Sh3

22156 JAMIESON, S., and others. Symposium on diseases of sheep. Vet. Rec. 62:771-785. Dec.16,1950. 41.8 V641

L. E. Hughes, W. T. Rowlands, and J. T. Stamp, joint authors.

Includes discussion.

22157 KEMPER, H. E., and ROBERTS, I. H. Eradication of sheep scabies. Vet. Med. 46:15-18. Jan.1951. 41.8 M69

Notes from a paper.

Psoroptes equi ovis.

22158 KIDDING time. Amer. Dairy Goat News 12(7): 6-7,13. Jan.1951. 40.18 Am34

22159 KOCH, W. Hormonale kastration von ziegenböcken. Tierärztl. Umschau 5:458-459. Dec.1950. 41.8 T445

22160 LAING, A. D. M. G. Methods of marking lambs and precautions to be observed. New Zeal. J. Agr. 81: 197,199,201-202. Sept.1950. 23 N48J

Includes identification, docking, castration.

22161 LANG, W. R. Coloured wools. Past. Rev. 60. 1075-1076. Oct.16,1950. 23 Au75

22162 MOULE, G. R., and KNAPP, B. Observations on intra-testicular temperatures of Merino rams. Austral. J. Agr. Res. 1:456-464. Oct.1950. 23 Au783

22163 MURA, D., and ALTIERI, M. On the etiology, pathogenesis, and prevention of gangrenous mastitis in sheep and goats. (In Italian.) Zooprofilassi 5:449-452, 455-458,461-465. Ref. Oct.1950. 41.8 Z72

English summary.

22164 ORLOV, I. V. Organization of a system of control measures for worm diseases in sheep. (In Russian.) Karakulevodstvo i Zverovodstvo 3(3):60-61. May/June 1950. 49 K14

22165 REID, R. L. Studies on the carbohydrate metabolism of sheep. II. Austral. J. Agr. Res. 1:338-354. Ref. July 1950. 23 Au783

22166 SAUER, B. Künstliche laktation bei milchschafen. Tierärztl. Umschau 5:446-447. Dec.1950. 41.8 T445

22167 SCHNEIDER, F. L. Status of sheep scabies in New Mexico. N. Mex. Stockman 16:81-82. Jan.1951. 49 N462

22168 SCHWARTZ, B., and others. An outbreak of parasitic gastroenteritis in feedlot lambs. (Abs.) J. Parasitol. 36(6,sect.2):33-34. Dec.1950. 448.8 J824  
A. O. Foster, J. E. Peterman, J. L. Wilbur, Jr., and K. C. Kates, joint authors.

22169 STEWART, D. F. Studies on resistance of sheep to infestation with *Haemonchus contortus* and *Trichostrongylus* spp. and on the immunological reactions of sheep exposed to infestation. I-IV. Austral. J. Agr. Res. 1:285-321,413-439. Ref. July-Oct.1950. 23 Au783

22170 WILKINS, H. F. Foot rot in sheep. Mont. Wool Grower 24(12):14. Dec.1950. 45.8 M762

#### Miscellaneous

22171 BRIMMER, B. Healthy producing does on 8½ a day. Dairy Goat J. 29:5. Jan.1951. 40.18 M592  
Browse and milk production.

22172 CARIZZA, R. A. Biblioteca rural condensada. Tema XXXIV. Descorne y castración; importancia de estas operaciones en la explotación del ganado ovino. Charla Rur. 144:57-58. Oct.1950. 9 C37

22173 ELLIOTT, E. Planning your 4-H goat project. Dairy Goat J. 29:6. Jan.1951. 40.18 M592

22174 ETTIEN, I. E. Can I succeed with dairy goats. Dairy Goat J. 29:7-8. Jan.1951. 40.18 M592

22175 EVANS, G. L. B. New life for the uplands. Farmer & Stock-Breeder 64:3116-3117. Dec.5,1950. 10 F228

Sheep rearing in Great Britain under the new Livestock Rearing in the Uplands Bill.

22176 FAITHFUL, W. A Southland tussock run. New Zeal. J. Agr. 81:347-349,351,353,355-356. Oct.1950. 23 N48J

Sheep farming for wool production, Glenarary, New Zealand.

22177 GEMMEKE. Leistungsprüfungen in der schafzucht. Tierzüchter 2:617-619. Dec.5,1950. 49 T445



- 22178 KANTSEPOL'SKIY, A. S. Organizing sheep shearing on Karakul sheep raising state farms. (In Russian.) Karakulevodstvo i Zverovodstvo 3(3):35-37. May/June 1950. 49 K14
- 22179 LEMLER, R. Problems increase in sheep management as winter approaches; proper care will pay off. *Purdue Agr.* 42(2):3. Nov.1950. 6 P97
- 22180 LITTON, G. Are you afraid to go into sheep? *Breeder-Stockman* 12(8):47. Jan.1951. 49 V81
- 22181 LLANOS, T. Ante el exponents de ganado cabrio en la Feria Nacional del Campo. *Ganadería [Madrid]* 8:488-489. July 1950. 49 G15 Spain.
- 22182 MOEN, O. Goats are profitable in Norway, too. *Dairy Goat J.* 29:4-5. Jan.1951. 40.18 M592 Translated by A. Sherwood.
- 22183 REID, W. S. Wool production in the arid pastoral areas of South Australia. *Wool* 1(3):43,45,62. 1950/51. 45.8 W887
- 22184 SIMS, H. J., and MCCANN, J. M. Sheep investigations at the Mallee Research Station, Walpeup. Victoria. *Dept. Agr. J.* 48:489-496. Nov.1950. 23 V66J
- 22185 SINCLAIR, A. N. Progeny testing methods in sheep. *Agr. Gaz. N. S. Wales* 61:530-533,577-582. (Cont.) Oct.2-Nov.1,1950. 23 N472

## SWINE

Breeds and Breeding

- 22186 BECKMAN, H. J. Choose your breed—Chester Whites fit into program of growing pork for small families. *West. Livestock J.* 29(6):188-190. Dec.15,1950. 6 F2278
- 22187 BOUCHER, H. Your breed paper; the spark plug of Hampshire promotion to help you and your breed needs your support. *Amer. Hampshire Herdsman* 26:93-94. Jan.1951. 46.8 Am33 American Hampshire Herdsman.
- 22188 CANO, A. E. Elección de porcinos. Argentina. *Dir. de Inform. P. Misc.* 339,16 p. 1950. 9 P943
- 22189 CANO, A. E. Razas de porcinos. Argentina. *Dir. de Inform. P. Misc.* 338,32 p. 1950. 9 P943
- 22190 COFFEY, J. S. Productivity in seed stock. *Berkshire News* 16(2):6,19. Dec.1950. 46.8 B454 Reproducing ability of sows.
- 22191 ENSMINGER, M. E., BRUGMAN, H. H., and WARWICK, E. J. A preliminary genealogy and carcass study of the W.S.C. project No. 61 bacon-type hog. *Wash. State Col. Inst. Agr. Sci. Tech. B.* 1,35 p. June 1950. 281.9 W272
- 22192 FOOK, L. S. Pig improvement in the settlement of Penang. *Malayan Agr. J.* 33:155-157. July 1950. 22.5 F312 Chiefly breeding.
- 22193 GJELSTAD, V., and KARBØ, A. Objectives and measures in swine production. II. Selection of breeding animals. (In Norwegian.) *Buskap og Avdrått* 1950(4):15-17. 49 B96
- 22194 PEMBERTON, R. 1950 Hampshire progress; the breed's greatest year. *Amer. Hampshire Herdsman* 26:12-14,107. Jan.1951. 46.8 Am33
- 22195 SQUIERS, C. D. Factors affecting litter size in certain strains of swine and their crosses. *Mich. U. Microfilm Abs.* 10(4):6-7. 1950. 241.8 M58
- 22196 TRULSSON, G. Prominent boar lines in Swedish swine breeding. (In Swedish.) *Skand. Kreatursförsäkringsbolaget. Manadsblad* 28:79-81. Aug.1950. 49.9 Sk1
- 22197 WHITMORE, R. Selecting and fitting Berkshires. *Berkshire News* 16(3):44-46. Jan.1951. 46.8 B454 Boars.

Feeds and Feeding

- 22198 BUYSKES, D. Economic pig production. *Farming So. Africa* 25:321. Oct.1950. 24 So842 Farm-produced feeds and feeding.
- 22199 CATRON, D. V. Pigs are made—then born; a good ration for sows makes bigger litters, thriftier pigs, more profit. *Successful Farming* 48(12):43,73-74. Dec. 1950. 6 Su12
- 22200 CHRISTIANSEN, O. Current observations on feeding of swine in connection with the planning of plant production for 1951. (In Danish.) *Dansk Landbr.* 69:591-592. Nov.23,1950. 280.28 V91
- 22201 CUNHA, T. J. Developments on APF. *Chester White J.* 40(12):12-14,26. Dec.1950. 46.8 W582 Swine feeding.
- 22202 EDWARDS, E. D. Pig feeding trials on skimmed milk. *New Zeal. J. Agr.* 81:336. Oct.1950. 23 N48J
- 22203 EDWARDS, H. M., and others. Observations on aureomycin and APF for the pig. *Soc. Expt. Biol. & Med. Proc.* 75:445-446. Nov.1950. 442.9 So1 T. J. Cunha, G. B. Meadows, R. F. Sewell, and C. B. Shawver, joint authors.
- 22204 GOODWIN, E. E., SCHNEIDER, B. H., and ENSMINGER, M. E. Comparative value of yellow, green and black peas in rations for growing-fattening pigs in the dry-lot. *Wash. Agr. Expt. Sta. C.* 113,5 p. Sept.1950. 100 W27S
- 22205 GREENSLADE, J. A. Know your pig-foods. *Smallholder* 84(2116):30. Dec.8,1950. 10 Sm1
- 22206 ISAJEV, F. The yeasted fodder for quality and output of the pork meat and fat. (In Czech.) *Českoslov. Akad. Zeměděl. Věst.* 24:417-423. Oct. 1950. 19.5 C332
- 22207 JOHNSON, G. W. Grazing for pigs in the Western Province. *Transkeian Ter. Agr. Dept. Umcebisi Womlimi Nomfuyi* 27(2):33-34. May 1950. 24 T684 Union of South Africa.
- 22208 LANÍK, J., ISAJEV, F., and KABÁT, M. The different ways of feeding and the weight increases of pigs in the pig fattening stations. (In Czech.) *Českoslov. Akad. Zeměděl. Věst.* 24:401-416. Ref. Oct. 1950. 19.5 C332
- 22209 LOOSLI, J. K. Amino acid requirements of swine. (Excerpts.) *Grain & Feed J. Consolidated* 105(12):21-22. Dec.27,1950. 298.8 G762 Similar title in *Milling & Feed* 31(12):13-14. Dec.1950. 298.8 C162
- 22210 MILLER, C. Brood sow feeding "know how" gives top performance and profits; modern hog raising requires the practical application of the proven fundamentals. *Amer. Hampshire Herdsman* 26:54,56,58. Jan. 1951. 46.8 Am33
- 22211 MILLER, R. C., and GOBBLE, J. L. APF seen valuable extender of available sources of animal protein for swine. *Sci. Farmer [Pa. Sta.]* 1950:1-2. Dec.1950. 100 P381
- 22212 MOEST, Die schnellmast der schweine mit kartoffeln. *Allgäuer Bauernbl.* 18:678-679. Nov.16,1950. 18 AL53
- 22213 OLOFSSON, N. E. Feeding of swine with regard to available feed. (In Swedish.) *Lantmannen* 34:967-969. Dec.16,1950. 11 L234
- 22214 ØSTLIE, S. Feeding of the swine this coming winter. (In Norwegian.) *Norsk Landbr.* 16:442-444. Nov. 24,1950. 11 N8122
- 22215 SCHNEIDER, B. H., and HUANG, T. C. Alfalfa, soil and antibiotics in the nutrition of young growing pigs. *Wash. Agr. Expt. Sta. C.* 112,5 p. Sept.1950. 100 W27S
- 22216 SCHNEIDER, B. H., and BRUGMAN, H. H. Pelleting feed for pigs. *Wash. Agr. Expt. Sta. C.* 115,4 p. Sept.1950. 100 W27S
- 22217 SHELTON, D. C., BEESON, W. M., and MERTZ, E. T. Growth of weanling pigs on a diet containing ten purified amino acids. *Arch. Biochem.* 29:446-447. Dec.1950. 381 Ar2
- 22218 SMIRNOV, I. M. Importance of full-value protein in swine rearing. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(11):34-41. 1950. 20 Ak1
- 22219 SOTOLA, J. Hogs' problems. *Corn Belt Live-stock Feeder* 3(4):14. Jan.1951. 280.38 C81 Feeding.
- 22220 SPEER, V. C., and others. Effect of aureomycin and animal protein factor on healthy pigs. *Arch. Biochem.* 29:452-453. Dec.1950. 381 Ar2 R. L. Vohs, D. V. Catron, H. M. Maddock, C. C. Culbertson, joint authors.
- 22221 TERRILL, S. W. There is more money to be made when careful attention is given to feeding the bred sow; gestation and lactation are considered nutritionally critical periods. *Amer. Hampshire Herdsman* 26:16,18, 108. Jan.1951. 46.8 Am33
- 22222 TESTONI, R. Water requirements of suckling pigs. (In Italian.) *Riv. di Zootec.* 23:329. Oct.1950. 49 R52
- 22223 VALDINOCI, M. Proper feeding of livestock; is it possible to fatten swine without corn? (In Italian.) *Agenzia Romana Note e Inform. Agr.* 83:9. Dec.6,1950. 281.8 Ag3



22224 WIRE, H. P. The miracle of mighty minerals; tests at the Dr. Macdonald experimental hog feeding farm proves the worth of the mighty minerals in the rations for swine. *Hog Breeder* 26:4,18-20. Jan.1951. 46.8 H672

#### Veterinary Medicine

- 22225 ARAUJO F., H. Triquina o cisticercos del cerdo? *Campo [La Paz]* 4(34):21-24;(35):53-61. Ref. Feb.-Mar.1950. 9.1 C15
- 22226 BAUER, H. R. Ferkelsterblichkeit und blindgeborene ferkel infolge A-avitaminose. *Tierärztl. Umschau* 5:366-368. Ref. Oct.1950. 41.8 T445
- 22227 BOLIN, F. M., and EVELETH, D. F. *Listeria monocytogenes* in liver of pig dying from lye poisoning. *Amer. Vet. Med. Assoc. J.* 118:7. Jan.1951. 41.8 Am3
- 22228 BURNS, K. F. Congenital Japanese B encephalitis infection of swine. *Soc. Expt. Biol. & Med. Proc.* 75: 621-625. Nov.1950. 442.9 S01
- 22229 CASSAMAGNAGHI, A. El rouget o erisipela del cerdo. *Rev. de Med. Vet. [Montevideo]* 4:887-901. Mar./June 1949. 41.8 R327
- 22230 DEMNITZ, A., and DRAGER, K. Über den rotlauf-adsorbatimpfstoff. *Monatsh. f. Prakt. Tierheilk.* 2:193-204. 1950. 41.8 M74
- 22231 DOYLE, L. P. Arthritis of swine. *No. Amer. Vet.* 32:24-25. Jan.1951. 41.8 N812
- 22232 DOYLE, L. P. Rhinitis of swine. (Abs.) *Vet. Med.* 46:15. Jan.1951. 41.8 M69
- 22233 EDWARDSON, J. The health of pigs. *Young Farmer* 18:292-294. Nov./Dec.1950. 10 Y8
- 22234 ELDER, C., and CRISLER, O. S. Hog cholera. *Mo. Agr. Expt. Sta. B.* 541,11 p. Aug.1950. 100 M693
- 22235 FOOTE, L. E., BROCK, W. E., and GALLAHER, B. Ictero-anemia, eperythrozoonosis, or anaplasmosis-like disease of swine proved to be caused by a filtrable virus. *No. Amer. Vet.* 32:17-23. Ref. Jan.1951. 41.8 N812
- 22236 GLÄSSER. Zum artikel von Dr. W. Bolle über neue herztodforschungsergebnisse. *Monatsh. f. Prakt. Tierheilk.* 2:243-244. 1950. 41.8 M74
- 22237 HUTCHINGS, L. M. Communicable diseases of swine. *Vet. Med.* 46:27. Jan.1951. 41.8 M69
- Notes on committee report.
- 22238 KIESCHKE, S. Geburtshilfe beim schwein. *Berlin. u. Münch. Tierärztl. Wchnschr.* 1950:185-186. Sept.1950. 41.8 B45
- 22239 KOLOCHINE-ERBER, B., and COLLOMBIER, M. Agglutination des leptospirés, en particulier de *L. pomona*, par les sérums de porcs. *Inst. Pasteur Ann.* 79: 370-375. Ref. Oct.1950. 448.3 An75
- 22240 LAMONT, H. G., LUKE, D., and GORDON, W. A. M. Some pig diseases. *Vet. Rec.* 62:737-756. Ref. Dec.9,1950. 41.8 V641
- Discussion includes paper on "Oedema disease of swine," by J. F. Timoney.
- 22241 LANDRO, C. DI, and MAGALLANES, N. Tres casos de conexión rectovaginal en suínos. *Rev. de Med. Vet. [Montevideo]* 4:877-881. Mar./June 1949. 41.8 R327
- 22242 NAI, D. D. New weapons against swine erysipelas. (In Italian.) *Riv. di Zootec.* 23:334-336. Oct.1950. 49 R52
- 22243 NALBANDOV, A. V. Problems in swine reproduction. *Vet. Med.* 45:477-479. Dec.1950. 41.8 M69
- Anatomical abnormalities; cystic ovaries.
- 22244 REYES, J. Control of parasitic diseases of swine. *Blowman* 6:9. Oct.1950. 276.8 P72
- Mange, lice, and internal parasites.
- 22245 SANDSTEDT, H. Swine pox. (In Swedish.) *Skand. Kreatursförsäkringsbolaget. Manadsblad* 28:81-82. Aug.1950. 49.9 Sk1
- 22246 SAVI, P. Infestation of *Brachylaemus suis* (Balozet, 1936) in swine in the Province of Foggia. (In Italian.) *Riv. di Parassitol.* 11:167-170. Sept.1950. 436.8 R52
- English summary.
- 22247 SCHELLNER, H., and RAUSCHER, W. Die rotlaufadsorbatvakzine in der praxis. *Tierärztl. Umschau* 5:320-321. Sept.1950. 41.8 T445
- 22248 SPLITTER, E. J. Icteroanemia in swine. (Abs.) *Vet. Med.* 46:14-15. Jan.1951. 41.8 M69
- Due to *Eperythrozoon suis*.

- 22249 STEPHAN, S. A. R., TURNER, S. G., and PAINTER, R. A. The occurrence of the "kidney worm" of swine (*Stephanurus dentatus*, Dising 1839) in Natal. *So. African Vet. Med. Assoc. J.* 21:100-102. Sept.1950. 41.8 S08
- 22250 SULLIVAN, J. F. Brucellosis in Oregon swine. *No. Amer. Vet.* 31:808-810. Dec.1950. 41.8 N812
- 22251 SUTHERLAND, H. L. Swine castration. *Auburn Vet.* 7:17-18. Fall 1950. 41.8 Aul
- 22252 TCHENTCHEV, I. La hyperimmunisation intra-cutanée, nouvelle méthode d'obtenir le serum contre la peste porcine. (In Bulgarian.) *Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis.* 18:101-106. 1950. 106.3 R32
- French summary.
- 22253 TESTI, B. La malattia de Teschen en Italie. *Off. Internatl. des Epizoot. B.* 33:575-580. Nov./Dec. 1950. 41.8 Of2
- 22254 TOOP, C. R. Swine paratyphoid. *West Austral. Dept. Agr. J. (ser.2)* 27:170-173. June 1950. 23 W52J
- 22255 VENN, J. A. J. Piglet anaemia. *Farming* 4: 365-368. Dec.1950. 10 F2236
- 22256 VILLENEUVE, P. Ils vont entrer à la porcherie cette protection suffit-elle? *B. des Agr.* 46(11):95, 97. Nov.1950. 7 B872
- Disease control.
- 22257 VINE, B. DE. La dentición porcina. *Tierra [Mexico]* 5:580. Nov.1950. 8 T445
- 22258 VOGEL, G. Die intraabdominale chloralhydratmarkose und ihre verwendbarkeit bei der ovariotomie kleiner schweine. *Tierärztl. Umschau* 5:368-371. Oct.1950. 41.8 T445
- 22259 WILLENBERG, S. Ein beitrage zur binneneberfrage. *Berlin. u. Münch. Tierärztl. Wchnschr.* 1950:187. Sept.1950. 41.8 B45
- Surgical treatment of cryptorchism.
- 22260 ZAVORAL, H. G. Hog health makes wealth. *Minn. U. Agr. Ext. B.* 119,rev.,15 p. June 1950. 275.29 M66S
- Swine sanitation.

#### Miscellaneous

- 22261 ARAN, S. El ganado de cerda en el Concurso Nacional de Ganados. *Ganaderia [Madrid]* 8:463-465. July 1950. 49 G15
- Spain.
- 22262 BELL, C. E., JR. The challenge of the new South. *Duroc News* 25:22,38. Jan.1951. 46.8 N212
- Chiefly on raising swine.
- 22263 CARSE, G. M. D. Preparation of pigs for exhibition. *Agr. Gaz. N. S. Wales* 61:535-537. Oct.2,1950. 23 N472
- 22264 DAVIDSON, H. R. Folly of the unweighed pig; good machine essential for economic production. *Farmer & Stock-Breeder* 64:3113. Dec.5,1950. 10 F228
- 22265 DEYOE, C. P. Keeping and using production records for swine. *Agr. Educ. Mag.* 23:164-165. Jan. 1951. 275.8 Ag8
- 22266 GONZALEZ G., F. Apuntes sobre la cría y explotación del cerdo. *Tierra [Mexico]* 5:532-534,572-574,593-595,630-634. (Cont.) Oct.-Nov.1950. 8 T445
- 22267 LEWIS, D. How to raise hog profits. *Breeder's Gaz.* 116(2):7,31. Feb.1951. 49 B74
- Suggestions on breeding, feeding, and marketing.
- 22268 NORTH, A. D. Rear more pigs. *Victoria. Dept. Agr. J.* 48:405-406. Sept.1950. 23 V66J
- 22269 REYES, P. Cría práctica del cerdo. *Agr. Costarricense* 8:401-410. (Cont.) Nov.1950. 8 Ag895
- 22270 RUPP, R. G. Want more pigs? *Farmer [St. Paul] Gen. Ed.* 68(23):6,21. Dec.2,1950. 6 F2211
- 22271 THYGENSEN, A. S. Quality disadvantages in a certain type of swine. (In Danish.) *Tidsskr. f. Landøkon.* 1950:550-558. Nov.1950. 11 T43
- Tender skin.
- 22272 TOPPER, J. Sixty-five years with pigs. *Farmer & Stock-Breeder* 64:3036-3037. Nov.28,1950. 10 F228
- 22273 WISDOM, G. N. The little woman is changing the hog market. *Minn. U. Agr. Ext. Folder* 151,8 p. Aug.1950. 275.29 M66P
- Meat-type hogs.



## ENTOMOLOGY

## GENERAL

- 22274 BERGOLD, G. H. Insect viruses. In Conference on the Similarities and Dissimilarities between Viruses Attacking Animals, Plants, and Bacteria, Pasadena, 1950. Viruses 1950; proceedings of a conference held Mar. 20-22, 1950, p.40-43. Ref. Pasadena, Calif. Inst. Technol., 1950. 448.2 C764
- 22275 BOLLOW, H. Zellulose-acetat-behälter als ersatz für laboratoriums- und sammlungs-gläser. Anz. f. Schädlinge. 23:156-158. Oct. 1950. 421 An9
- 22276 CARVALHAES, J. The ecological significance of mimicry in insects. (In Portuguese.) Brotéria 19:145-161. (To be cont.) Nov. 1950. 410 B79C
- 22277 CLARK, E. W., and MORISHITA, F. C-M medium: a mounting medium for small insects, mites, and other whole mounts. Science 112:789-790. Dec. 29, 1950. 470 Sci2
- 22278 COVA GARCÍA, P. Introducción al estudio de los insectos. Venezuela. Div. de Malariol. P. 9,141 p. Ref. Jan. 15, 1950. 448.9 V55  
Anatomy, evolution, and classification.
- 22279 EDEL'MAN, N. M. Some regularities of the diurnal rhythm of insect respiration. (In Russian.) Zool Zhur. 29:427-434. Ref. Sept./Oct. 1950. 410 R92
- 22280 FRANKE, L. Scientists strive to plant insecticides in the soil. Goodyear Farm Prog. 6(4):1. Nov. 1950. 6 G63  
Introduction of systemic insecticides for control of plant pests.
- 22281 FRANZ, H. Das studium geographischer rassen und seine bedeutung für die lösung tiergeographischer und stammesgeschichtlicher probleme. Wien. Ent. Gesell. Z. 35:3-15. Ref. Mar. 20, 1950. 421 Os7
- 22282 FREEMAN, T. N. The northern insect survey in Canada and some environmental observations. Ent. Soc. Ontario. Annu. Rpt. (1949) 80:39-41. 1950. 420 On8
- 22283 HARVEY-JELLIE, W. An entomologist—after seventy years. Recreation 44:397. Dec. 1950. 280.68 P69  
Insects as a hobby.
- 22284 IABLOKOFF, A. KH. Sur les particularités de la faune de la région de Saint-Guilhem-le-Désert. Soc. Ent. de France. B. 55:102-112. 1950. 420 F84B
- 22285 KRUSEMAN, G. On inaccurate labeling. (In Dutch.) Ent. Ber. 13:155. Oct. 1950. 420 N38B
- 22286 PARRY-JONES, E. Recommendations on field pests; second annual progress report of the Tobacco Pest Control Research Scheme. Rhodesian Farmer 4(12):25, 27, 35. Nov. 8, 1950. 24 R347
- 22287 POST, R. L., and ANDERSON, J. R. Devices for marking insects. N. Dak. Agr. Expt. Sta. Bimon. B. 13:81-82. Nov./Dec. 1950. 100 N813B
- 22288 SCHULER, L. Les rosellères des bords du Rhin. Entomologiste 6:89. May/June 1950. 421 En814  
Insects of the reed-beds along the Rhine.
- 22289 THALENHORST, W. Die koinzidenz als gradologisches problem; eine synökologische studie. Z. f. Angew. Ent. 32:1-48. Ref. Aug. 1950. 421 Z36  
Interrelations of host insect and parasite (or predator) in time and space.
- 22290 WEST, A. S. The precipitin test as an entomological tool. Canad. Ent. 82:241-244. Ref. Dec. 1950. 421 C16
- 22291 AGUILAR, J. D'. Remarques sur l'action toxique persistante de l'hexachlorocyclohexane dans le sol. Paris. Acad. des Sci. Compt. Rend. 231:1352-1354. Dec. 6, 1950. 505 P21
- 22292 ARIZONA. STATE ENTOMOLOGIST. Report, July 1, 1948-June 30, 1950. Phoenix, 1950. 49 p. 423.9 Ar4
- 22293 BARGIONI, G. Disinfestation of mills. (In Italian.) Selez. di Tec. Mollitoria 1:37-38. Sept. 1950. 298.8 Se42  
Fumigation for insect control.
- 22294 BESS, H. A. Be careful with parathion. Hawaii Farm & Home 13(11):44-45. Nov. 1950. 25 H3191
- 22295 BETTINI, S. Chronic toxicity and food contamination by DDT. (In Italian.) Ist. Super. di Sanit. Rend. 13:443-453. Ref. 1950. 449.9 R66  
English summary.
- 22296 BETTINI, S. Toxicity of insecticides for man and animals. (In Italian.) Allevatore 6(42):1;(43):7. Oct. 22-29, 1950. 49 AL55  
DDT, benzene hexachloride, chlordane, toxaphene, dieldrin, aldrin, organic phosphates.
- 22297 BISHOPP, F. C. Using insecticides safely. Pest Control 19:9-12, 14. Jan. 1951. 449.8 Ex8
- 22298 BLACKALLER V., A. Las plagas del maíz en México. Tierra [Mexico] 5:596-598. Nov. 1950. 8 T445  
Insect pest control.
- 22299 BOULTON, E. H. B. The identification and treatment of defects in timber. Roy. Inst. Chartered Surveyors. Trans. 83(1):14-20. In Roy. Inst. Chartered Surveyors. J. 30(6). Dec. 1950. 282.9 C38J  
Insect and fungus damage.
- 22300 BRAUNS, A. Holzbewohnende insekten. Norddeut. Holzwirt. 4(40):12-13. Ref. Oct. 5, 1950. 99.82 N75
- 22301 CAREY, C. J. Legal aspects of pest control. (Sum.) West. Grower & Shipper 22:11-12. Dec. 1950. 280.38 W52
- 22302 CASTELLARNAU, I. S. DE. Los enemigos naturales de las aves. Brotéria 19:162-175. Nov. 1950. 410 B79C  
Insects, mites, worms, and protozoan parasites.
- 22303 CIFERRI, R. Systemic insecticides. (In Italian.) Humus 6(10):22-23. Oct. 1950. 16 H88
- 22304 CLARK, P. G. The spray programme: pest control costings for apples. Fruit-Grower 2866:660. Nov. 30, 1950. 80 F941
- 22305 CLAUS, A. Zur frage der insektenvergrämungsmittel. Deut. Tierärztl. Wchnschr. 57:364-365. Nov. 15, 1950. 41.8 C482
- 22306 CURCULLO. Control of grain parasites. (In Italian.) Molini d'Italia 1:59. May 1950. 298.8 M73  
Insects.
- 22307 DALMEYER, W. H. M. Use of emulsions of D. D. T. mineral oil concentrates in fruit growing. (In Dutch.) Gent. Landbouwhogesch. Meded. 15:26-43. Apr. 1950. 105.1 G344  
English summary.
- 22308 DELVAUX, E. L., and BERNIMOLIN, P. J. La toxicité pour les vertébrés des principaux insecticides de synthèse. Gent. Landbouwhogesch. Meded. 15:175-208. Ref. Apr. 1950. 105.1 G344  
English summary.
- 22309 DE ONG, E. R. Refined petroleum oil as an insecticide. World Crops 3:19-22. Jan. 1951. 281.8 W892
- 22310 DICKINSON, H. How to kill the bugs in your [grain] bins. Successful Farming 49(1):39, 102-104. Jan. 1951. 6 Su12
- 22311 DINELLI, D., and CINELLI, E. On the insecticidal action of calcium cyanamide. (In Italian.) (Abs.) Chim. & Indus. 64(3, spec. no.):66. Sept. 1950. 383 C42
- 22312 DOHRING, E. Das hexachlorcyclohexan und seine anwendung auf dem gebiet der hygienischen zoologie. Z. f. Hyg. Zool. u. Schädlingbekämpfung. 38:111-127, 144-149, 177-181, 193-214. (Concl.) Ref. Apr.-July 1950. 449.8 Z36
- 22313 DORMAL, S. Les installations destinées à détruire les insectes dans les avions. B. Agr. du Congo Belge 41:1003-1006. Dec. 1950. 24 K83
- 22314 DORMAL, S. Note sur la synthèse des principes actifs du pyréthre. Gent. Landbouwhogesch. Meded. 15:44-48. Apr. 1950. 105.1 G344  
English summary.
- 22315 DORST, H. E., and KNOWLTON, G. F. Development of basis for predicting harmful insect populations in celery probable answer to control problem. Farm & Home Sci. [Utah Sta.] 11:85-86. Dec. 1950. 100 U1F
- 22316 DOWNES, J. A., and WILLIAMS, D. The insect faunas of the dried roots of Lonchocarpus and Derris. Colon. Plant & Anim. Prod. 1:33-51. Ref. Jan./Mar. 1950. 472 C71
- 22317 DUMONT, L. Les phosphates organiques insecticides, "les systémiques," nouvelle classe d'insecticides. Phytoma 3(19):6-11. Sept./Oct. 1950. 464.8 P563
- 22318 EMMEL, L. Die bedeutung des gammexan für die bekämpfung der ektoparasiten der nutztier nebst einigen bemerkungen über die abdoselung. Z. f. Hyg. Zool. u. Schädlingbekämpfung. 38:174-177. June 1950. 449.8 Z36
- 22319 FERNÁNDEZ DÁVILA, J. G. Un nuevo método industrial de extracción cuantitativa de los principios insecticidas totales existentes en las raíces frescas del barbasco y derris. Cong. Peruano de Quim. Actas y Trab. 1949(2):653-665. 385 C763

## GENERAL - ECONOMIC



- 22320 FISCHER, W., and SCHMIDT, G. Zur frage der entfernung von DDT-spuren aus glasgefassen. Nachrbl. des Deut. Pflanzenschutzdienstes 2:107-108. July 1950. 442.9 B832
- 22321 FJELDDALEN, J. Systemic insecticides; biochemical control of pests. (In Norwegian.) Gartneryrket 40:812-816. Nov. 25, 1950. 80 G1938
- 22322 FLOYD, E. H., SMITH, C. E., and STRONG, R. G. Get a good stand of corn by controlling soil insects. La. Agr. Col. Ext. Mimeog. E-1, 4 p. Jan. 1950. 275.29 L93M1
- 22323 FONSECA, J. P. DA. Storage of food grains. (In Portuguese.) Soc. Rur. Brasil. Rev. 30(359):38. Oct. 1950. 9.2 B733  
Fumigation for pest control.
- 22324 FONTANA, P. Chromatographic determination of the gamma isomer in a raw mixture of benzene hexachloride. (In Italian.) (Abs.) Chim. & Indus. 64(3, spec. no.):70. Sept. 1950. 383 C42
- 22325 FONTANA, P., and RADONI, R. Concentration and biological activity in chloroorganic insecticides. (In Italian.) (Abs.) Chim. & Indus. 64(3, spec. no.):70. Sept. 1950. 383 C42
- 22326 FREAR, D. E. H. Here is a summary of new developments in ag chemicals. Better Farming Methods 23:15, 76. Jan. 1951. 58.8 B46  
Insecticides and rodenticides.
- 22327 GRANDORI, R., and others. Bentonite as disinfectant for stored wheat. (In Italian.) B. di Zool. Agr. e Bachicolt. 16:51-84. 1950. 423.92 B63  
L. Grandori, G. Domenichini, and E. Carè, joint authors. English summary.
- 22328 GRANDORI, R. Experiments with the new insecticide Fosferno 20. (In Italian.) B. di Zool. Agr. e Bachicolt. 16:23-28. 1950. 423.92 B63  
Parathion preparation.
- 22329 GRISON, P., and VIEL, G. Variation de l'effet toxique de produits insecticides en fonction du stade larvaire des insectes. Paris. Acad. des Sci. Compt. Rend. 231:1090-1092. Nov. 13, 1950. 505 P21
- 22330 GUERIN, H., and others. Sur les arsénates de cuivre et leurs propriétés insecticides et fongicides. (Abs.) Chim. & Indus. 64(3, spec. no.):114. Sept. 1950. 383 C42  
M. Raucourt, G. Viel, and R. Mas, joint authors.
- 22331 GUNDERSON, H. Insect control in stored grain. Grain & Feed Rev. 40(4):26-27. Dec. 1950. 28-28 C78
- 22332 HAAG, H. B., and others. Comparative chronic toxicity for warmblooded animals of 2,2-bis-(p-chlorophenyl)-1,1,1-trichloroethane (DDT) and 2,2-bis-(p-methoxyphenyl)-1,1,1-trichloroethane (DMDT, methoxy-chlor). Arch. Internat. de Pharmacodyn. et de Thé. 83: 491-504. Sept. 1, 1950. 448.8 Ar226  
J. K. Finnegan, P. S. Larson, W. Riese, and M. L. Dreyfuss, joint authors.  
Experiments with rats and rabbits.
- 22333 HADLINGTON, P. Forest insects and wood-destroying insects of N.S.W. I. N. S. Wales. Forestry Comn. Div. Wood Technol. Tech. Notes 4(10/12):17-22. Aug. 1950. 99.9 N472T
- 22334 HALL, L. B. The Equipment Development Section of the Technical Development Services. CDC Bulletin 9(11):22-26. Nov. 1950. 151.65 C12  
Pest control equipment.
- 22335 HALLEMANS, A. Produits chimiques modernes utilisés dans la lutte contre les ennemis des cultures. Fruit Belge 18:145-146. Oct. 1950. 80 F9493
- 22336 HAMADA, M., OIWA, T., and OHNO, M. Studies on the correlation between chemical constitution and the insecticidal activity of halogenated aromatic compounds. V. Studies on the chlorinated compounds of BHC. (In Japanese.) Botyu-Kagaku 15:89-93. June 1950. 421 B65  
English summary.
- 22337 HAMADA, M. A third digest and list of publications on benzene hexachloride. (In Japanese.) Botyu-Kagaku 15:118-121. Ref. June 1950. 421 B65
- 22338 HAMBLETON, E. J. Problemas de control de insectos del algodón en El Salvador. Cent. Nac. de Agron. B. Téc. 5, 11 p. Sept. 1950. 8 Sa54B
- 22339 HANSENS, E. J. Recent developments in the control of insect and parasitic pests. Amer. Vet. Med. Assoc. J. 118:38-41. Jan. 1951. 41.8 Am3  
Includes insecticides.
- 22340 HARADA, T., and KOBAYASHI, I. The fumigation of cereals at low temperature. (In Japanese.) Tokyo. Food Res. Inst. Rpt. 3:1-10. June 1950. 389.9 T57  
English summary.  
For pest control.
- 22341 HARWOOD, P. D. Is natural selection an outworn term? Ohio J. Sci. 50:278-280. Nov. 1950. 410 Oh3  
Resistance of insects to insecticides and plants to disease.
- 22342 HATAKOSHI, S. Gaichu bojo-ho zusetu [Illustrated methods for the prevention and exclusion of noxious insects]. Tokyo, Nogyo Shoin, 1950. 229 p. 423 H28
- 22343 HAYDEN, B. E. Feed them this winter, birds will help you. Horticulture 28:446, 454. Dec. 1950. 80 H787  
Insect pest control.
- 22344 HAYES, W. J., JR. Toxicology of insecticides. CDC Bulletin 9(11):1-3. Nov. 1950. 151.65 C12
- 22345 HENDE, A. VAN DEN, and JACOBS, T. Influence of the crystal size upon the activity of D. D. T. (In Dutch.) Gent. Landbouwhoges. Meded. 15:105-127. Ref. Apr. 1950. 105.1 G344  
English summary.
- 22346 HERBERG, M. Biologische schädlingbekämpfung durch vogelhege und vogelschutz. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:201-203. Dec. 1950. 18 D4822
- 22347 HERKEN, H., and KLEMPAU, I. Zur neurotropen wirkung einiger hexachlorcyklohexane. Naturwissenschaften 37:493-494. Nov. 1, 1950. 474 N213
- 22348 HERRERA ARANGUENA, J. El contaje entomológico de las plagas que atacan al algodón en el Valle de Pativilca. Campaña 1949-50. Agronomía [Lima] 15(63):33-41. Sept./Oct. 1950. 9.8 Ag83
- 22349 HEY, G. L. New insecticides for orchard spraying: lime sulphur substitute may be needed soon. Grower [London] 34:1318-1319, 1321. Dec. 23, 1950. 286.83 M34
- 22350 HOPKINS, D. P. Killing fruit pests before they hatch. Smallholder 84(2115):12. Dec. 1, 1950. 10 Sml  
Tar-oil washes.
- 22351 JACOBS, L., WOKE, P. A., and JONES, F. E. Studies on the transmission of Toxoplasma gondii. (Abs.) J. Parasitol. 36(6, sect. 2):36-37. Dec. 1950. 448.8 J824  
Tests with fleas, mites, lice, ticks, and bugs as possible vectors.
- 22352 JACOBSON, M. Constituents of Heliothis species. I. Scabrin, an insecticidal amide from the roots of H. scabra Dunal. Amer. Chem. Soc. J. 73:100-103. Ref. Jan. 1951. 381 Am33J
- 22353 JOHANSON, F. D. Chemical control of apple orchard pests. Md. Fruit Grower 20(4):1-3, 6-8. Oct./Dec. 1950. 80 M36
- 22354 KAPNER, S. H. Food and people; pests. Agr. & Indus. Life 12(11):7, 39. Nov. 1950. 25 Ag8
- 22355 KAVEN, G. Bodenbearbeitung und schädlingbekämpfung. Anz. f. Schädlingk. 23:172-173. Nov. 1950. 421 An9
- 22356 KHARITONOV, D. M. Vrediteli i bolezni sel'skokhozjaistvennykh rastenii severnoy nechernozemnoy zony SSSR. [Pests and diseases of agricultural plants in the northern non-black soil area of U.S.S.R.]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1949. 125 p. 464.4 K52
- 22357 KIPS, R. H., and BEHEYT, C. Of the toxicity of D. D. T. mineral oil emulsions. (In Dutch.) Gent. Landbouwhoges. Meded. 15:74-104. Ref. Apr. 1950. 105.1 G344  
English summary.
- 22358 KNOPPIEN, P. Experiments on flavour after application of insecticides containing BHC. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:771-773. Oct. 1950. 86 N384  
English summary.  
Plums and apples.
- 22359 LEHKER, G. E. Insect pests of the flower garden. Purdue U. Agr. Ext. B. 239, rev., 16 p. 1950. 275.29 In2E
- 22360 LENKE, D. Über die wirkung insektizider stoffe auf molche und fische. Arch. f. Expt. Path. u. Pharmakol. 210:389-392. 1950. 448.8 Ar2  
DDT and DFDT.
- 22361 LEPAGE, H. S., and GIANNOTTI, O. Recommendations of the Biological Institute for the control of cotton pests during the season 1950-51. (In Portuguese.) Biológico 16:139-145. July 1950. 442.8 B529



- 22362 LEPIGRE, A. L. Comment désinsectiser les grains en stock. *Phytoma* 3(19):12-17. (To be cont.) Sept./Oct.1950. 464.8 P563
- 22363 LERCH, D. When handling ag chemicals safety comes first. *Better Farming Methods* 23:15,77. Jan. 1951. 58.8 B45  
Chiefly insecticides.
- 22364 LITTLER, C. A. A vat-side test for assaying DDT-BHC in dipping vats. *Vet. Med.* 45:480-482,484. Dec.1950. 41.8 M69
- 22365 LORD, K. A., and POTTER, C. Mechanism of action of organo-phosphorus compounds as insecticides. *Nature [London]* 166:893-894. Nov.25,1950. 472 N21
- 22366 MCMAHON, H. Insect pests of alfalfa in the northern seed growing districts of western Canada. *Alfalfa Impr. Conf. Rpt.* 12:52-53. 1950. 60.9 AL2
- 22367 MACNAY, C. G. A summary of the more important insect infestations and occurrences in Canada in 1949. *Ent. Soc. Ontario. Annu. Rpt.* (1949)80:57-77. 1950. 420 On8
- 22368 MARLE, G. S. VAN. Application of parathion. (In Dutch.) *Vakbl. v. de Bloemisterij* 5:380. Nov.24,1950. 80 V22  
To ornamental plants.
- 22369 MARLE, G. S. VAN. Experiences with new chemicals and new methods for control of pests in the flower-culture at Aalsmeer. (In Dutch.) *Gent. Landbouw hogesch. Meded.* 15:318-323. Apr.1950. 105.1 G344  
English summary.
- 22370 MARTIN, H. Factors affecting the practical employment of systemic insecticides. *Canad. Ent.* 82:247-249. Dec.1950. 421 C16
- 22371 MARTINS, A. O. Cleaning of grain. (In Portuguese.) *Colheita e Mercados* 6:9-11. Jan./Feb.1950. 255.3 Sa652  
Fumigation for insect control.
- 22372 MARULANDA CAICEDO, L. Parásitos en el ganado. *Rev. Agr. y Ganad.* 12(128):12-13. Sept.1950. 9.4 R327  
Insect pests.
- 22373 MATTHEWS, S. Gas war on the farm. *Sci. News Let.* 58:378-379. Dec.9,1950. 470 Sci24  
Gas masks for parathion and other insecticides.
- 22374 MATURANA, A. Los parásitos del gallinero. *Agr. Costarricense* 8:395-396. Nov.1950. 8 Ag895
- 22375 METCALF, R. L., and MARCH, R. B. Properties of acetylcholine esterases from the bee, the fly and the mouse and their relation to insecticide action. *J. Econ. Ent.* 43:670-677. Ref. Oct.1950. 421 J822
- 22376 MICHEL, E. Action insecticide de divers produits de synthèse vis-à-vis du "ver jaune" et du "ver gris." *Inst. Expt. du Tabac. Ann.* 1:93-112. Ref. May 1950. 69.9 B45  
Agriotes, Euxoa segetum, Feltia exclamations and Agrotis ypsilon.
- 22377 MILNER, M., BARNEY, D. L., and SHELLENBERGER, J. A. Use of selective fluorescent stains to detect insect egg plugs on grain kernels. *Science* 112:791-792. Dec.29,1950. 470 Sci2
- 22378 MORRISON, C. Friends in a world of enemies. *Country Life [London]* 108:2151-2152. Dec.22, 1950. 80 C83  
Beneficial insects.
- 22379 MORRISON, F. O. The toxicity of hexachlorocyclohexane to certain micro-organisms, earthworms and arthropods. *Ent. Soc. Ontario. Annu. Rpt.* (1949)80:50-57. 1950. 420 On8  
Arthropods tested were Armadillidium nasutum, Eomenacanthus stramineus, Drosophila melanogaster, Aedes aegypti, and Tenebrio molitor.
- 22380 MULLER, B. Hygienisch-zoologische notizen. VI. DDT-vergiftungsgefahren für fische. *Z. f. Hyg. Zool. u. Schädlingsbekämpf.* 38:215-220. Ref. July 1950. 449.8 Z36
- 22381 MÜNCHBERG, P. Über die wahrscheinlichen ursachen der beeinflussung von geruch und geschmack des erntegutes nach dessen behandlung mit hexapräparaten. *Z. f. Hyg. Zool. u. Schädlingsbekämpf.* 38:136-144. May 1950. 449.8 Z36
- 22382 NAKAZIMA, M., OKUBO, T., and KATUMURA, Y. The alkaline dehydrochlorination and the structures of the benzene hexachloride isomers and their related compounds. II. Studies on the agricultural chemicals by the polarographic method V. (In Japanese.) *Botyu-Kagaku* 15:97-109. Ref. June 1950. 421 B65  
English summary.
- 22383 NAKAZIMA, M., and OIWA, T. Molecular structure of  $\gamma$ -BHC. (In Japanese.) *Botyu-Kagaku* 15:114-117. Ref. June 1950. 421 B65  
English summary.
- 22384 NAKAZIMA, M., and others. The utilization of the inactive isomers of benzene hexachloride. (In Japanese.) *Botyu-Kagaku* 15:93-95. June 1950. 421 B65  
T. Higuti, S. Sono, and A. Sugiura, joint authors.  
English summary.
- 22385 NEISWANDER, R. B. New insecticides for greenhouse use. *Ohio Veg. & Potato Growers Assoc. Annu. Proc.* 35:150-157. 1950. 75.9 Oh3
- 22386 NEVES, C. M. B. Introdução à entomologia florestal portuguesa [Introduction to Portuguese forest entomology]. Lisboa, Sá da Costa, 1950. 225 p. Ref. (A terra e o homem, 18. Sect. 3, No. 7) 15.5 T27
- 22387 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Insect Pests. *Agr. Gaz. N. S. Wales* 61:583-586. Nov.1,1950. 23 N472  
Maroga unipunctata; Epilachna vigintioctopunctata Acanthoscelides obtectus; Zenage turneri.
- 22388 OIWA, T., YAMADA, R., and OHNO, M. Studies on the molecular structures of BHC and its related compounds. II. On the molecular structure of  $\gamma$ -monochlorobenzene hexachloride. (In Japanese.) *Botyu-Kagaku* 15:86-88. June 1950. 421 B65  
English summary.
- 22389 OTANES, F. Q. The most important pests of sugar cane and suggestions for their control. *Sugar News* 26:453-457. Sept.1950. 65.8 Su36  
Philippine Republic.
- 22390 PEARCE, G. W., GOETTE, M. B., and SPILLANE, J. T. Insecticidal formulations. *CDC Bulletin* 9(11):17-21. Nov.1950. 151.65 C12
- 22391 PERU. DIRECCIÓN GENERAL DE AGRICULTURA. Insectos e Insecticidas en la campaña algodonería 1949-1950. *Agronomia [Lima]* 15(63):23-32. Sept./Oct. 1950. 9.8 Ag83
- 22392 RATKOVICH, M. Los insectos entomófagos relacionados con la citricultura tucumana. *IDIA; Inform. de Invest. Agr.* 3(33/34):23-26. Ref. Sept./Oct.1950. 9 Id3
- 22393 RICHARDSON, C. H., and DU CHANOLE, F. R. Another year with the new insecticides for apple pest control. *Iowa State Hort. Soc. Trans.* 64:54-59. 1949. 81 Io9
- 22394 RIEMSCHEIDER, R. L'évolution du "1068," "M 410," ou "chlordané." *Chim. & Indus.* 64:695-698. Ref. Dec.1950. 383 C42  
Chemistry.
- 22395 RIPPER, W. E. The outlook for systemic insecticides. *Down to Earth* 6(3):13-16. Winter 1950. 381 D75
- 22396 RIVERO, J. M. DEL. El empleo correcto del DDT. *Semana Vitiviníca* 5(212):18-19. July 22,1950. 95.8 Se5
- 22397 RODRÍGUEZ E., M. El estudio y la química de los insecticidas de origen vegetal en el Perú. *Agronomia [Lima]* 15(62):53-65. June/Aug.1950. 9.8 Ag83
- 22398 ROSSEM, G. VAN. Report on the occurrence of some harmful insects in the year 1949. (In Dutch.) *Nederland. Ent. Ver. Verslag en Wetensch. Meded.* 9: xlvii-lv. 1950. 420 N28V
- 22399 RUSZKOWSKI, J. Fauna roślinozerna łądów zbożowych w Polsce w okresie dwudziestolecia 1919-1939. Herbivorous fauna examined on cereals in Poland in the years 1919-1939. *Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. E. Sup.* 2,94 p. Jan.26,1950. 512 L96Aes  
English summary.  
Agrotis spp., Melolontha spp., Tipulidae; field mice, Oscinella frit, Phytophaga destructor, Chlorops taeniorhynchus, etc.
- 22400 SAN ROMÁN, G. D. Los parásitos de las aves y su combate. *Charla Rur.* 144:32-33. (To be cont.) Oct.1950. 9 C37  
Insect pests of poultry.
- 22401 SCHENK, P. J. Insecticides a labyrinth. (In Dutch.) *Vakbl. v. de Bloemisterij* 5:405. Dec.15,1950. 80 V22
- 22402 SCHLUMBERGER, O. Die entwicklung des pflanzenschutzes in der Deutschen Demokratischen Republik nach 1945. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:198-199. Dec.1950. 18 D4822  
Pest and disease control.
- 22403 SCHRADER, G. Organische phosphorverbindungen als neuartige insektizide. (Extr.) *Angew. Chem.* 62:471-473. Oct.21,1950. 384 Z33



- 22404 SCHREAD, J. C. Control of turf insects. Prof. Gard. 2:288,296. (To be cont.) Dec.1950. 80 P945
- 22405 SCHUENEMAN, J. J. Case history: death of a PCO. Pest Control 19:24,26. Jan.1951. 449.8 Ex8  
Fatal effects of exposure to methyl bromide fumes.
- 22406 SEXTON, W. A. Structure and activity in synthetic insecticides. Chem. Soc. Q. Rev. 4:272-291. 1950. 382 L84Q
- 22407 SHCHERBINOVSKIĬ, N. S. Vrediteli plodovogo sada [Pests of the orchard]. Moskva, Gos Izd-vo Detskoi Lit-ry Ministerstva Prosveshcheniia RSFSR, 1950. 62 p. 423 Sh22Vp
- 22408 SIBILIA, C. Achievements in the control of plant parasites. (In Italian.) Agr. Ital. 1:612-616. Dec.1, 1950. 16 Ag822  
English summary.  
Summary of results of an international conference on pest and disease control measures.
- 22409 SLEESMAN, J. P. The use of newer organic insecticides for the control of insects on vegetable crops. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:101-104. 1950. 75.9 Oh3
- 22410 SLOAN, G. D., and MATHIAS, A. C. Let's do the job right. Citrus Mag. 13(4):19-21. Dec.1950. 80 C498  
Pest control.
- 22411 SPERONI, G., JOVINE, L., and PERINI, M. Binary systems of the isomers of benzene hexachloride and the possibility of cryoscopic determination of the gamma isomer. (In Italian.) (Abs.) Chim. & Indus. 64 (3,spec.no.):115. Sept.1950. 383 C42
- 22412 SPERONI, G., LOSCO, G., and PERI, C. A. The esters of thiocyanacetic acid and their insecticidal properties. (In Italian.) (Abs.) Chim. & Indus. 64:115. Sept.1950. 383 C42
- 22413 SPERONI, G. Tetraethyl pyrophosphate. (In Italian.) (Abs.) Chim. & Indus. 64(3,spec.no.):114-115. Sept.1950. 383 C42  
Chemistry.
- 22414 SPEYER, W. Haben die modernen kontaktgifte eine ovicide wirkung? Nachrbl. des Deut. Pflanzenschutzdienstes 2:2-3. Jan.1950. 442.9 B832
- 22415 SPURR, F. A. Separatory device for use in testing dipping baths containing organic chlorides. Vet. Med. 45:483-484. Dec.1950. 41.8 M69
- 22416 STAPLEY, J. H. Some experiences with BHC as a fruit spray. Fruit-Grower 2870:843-844. Dec.28, 1950. 80 F941
- 22417 STEINIGER, F. Über methylbromid in der schädlingbekämpfung (Zugleich ein bericht über einen todesfall an methylbromid, der durch schädlingbekämpfungsarbeiten verursacht wurde). Z. f. Hyg. Zool. u. Schädlingbekämpf. 38:129-136. Ref. May 1950. 449.8 Z36
- 22418 STRUELENS, H. Une nouvelle réaction colorée de la rotenone. Gent. Landbouwhogeschool. Meded. 15:69-73. Apr.1950. 105.1 G344  
English summary.
- 22419 SWENSON, E. D., and SHELLENBERGER, J. A. Entoleter scourer-aspirator action on wheat containing hidden infestation. Assoc. Oper. Millers. B. 1951:1869-1871. Jan.1951. 298.9 As7
- 22420 TAMURA, L. Sakumotsu gaichu bojo junkage-tsu [Prevention of harmful insects throughout the year on agricultural crops]. Tokyo, Toyokan, 1950. 266 p. 423 T152
- 22421 TASCHEN, B., and WIKRIGER, W. E-605 in der praxis und im tierversuch. Deut. Med. Wchnschr. 75: 1478-1479. Nov.3,1950. 448.3 D48
- 22422 THULLBERRY, H. A., and MATHIAS, A. F. Observations on the commercial use of parathion on citrus groves for the past two years. Citrus Mag. 13(5):25-26. Jan.1951. 80 C498
- 22423 TORRES, B. A. Insectos perjudiciales y utiles al cultivo de la papa en la Argentina. Argentina. Inst. de Sanid. Veg. [P.] Ser. B 6(17),37 p. Ref. 1950. 464.9 Ar323P
- 22424 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine import restrictions of the British Colony of Bermuda; oranges and grapefruit embargoed. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 445,rev.(sup. 2),1 p. Nov.24,1950. 1.9 F73
- 22425 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine import restrictions of the French Zone of Morocco. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 444,rev.,14 p. Nov.24,1950. 1.9 F73
- 22426 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine import restrictions of the Republic of Venezuela; rules for the importation of seed potatoes. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 497,rev.(sup.1),2 p. Jan.2,1951. 1.9 F73
- 22427 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Report of the chief, 1949/50. Washington, 1950. 72 p. 1 Ag84
- 22428 UPHOLT, W. M. The newer economic poisons of use in disease control. CDC Bulletin 9(11):7-17. Nov. 1950. 151.65 C12  
Insecticides and rodenticides.
- 22429 VASINA, A. N. Insecticidal properties of Amorphia plants. (In Russian.) Priroda 39(7):66-67. July 1950. 410 P933  
Experiments on Aphid fabae and A. grossulariae.
- 22430 VIEL, G., and CHANCOGNE, M. Sur la comparaison du pouvoir ovicide des dinitrocrésylates de sodium et de calcium. Paris. Acad. des Sci. Compt. Rend. 231:1085-1087. Nov.13,1950. 505 P21
- 22431 VINCENT, L. E., and LINDGREN, D. L. Progress report on control of date insects and the date mite [Paratetranychus simplex]. Date Growers' Inst. Rpt. 27: 3-7. 1950. 81 D26
- 22432 WEBSTER, R. L. New insecticides: their use, limitations and hazard to human health. Wash. Agr. Expt. Sta. C. 64,rev.,51 p. 1950. 100 W27S
- 22433 WENZL, H., and KAHL, E. Benetzungsfähigkeit und oberflächenspannung. Pflanzenschutzberichte 5: 258-267. Ref. Sept.1950. 464.9 P48  
English summary.  
Insecticides.
- 22434 WHITE, A. N. Along the insect battlefield. Tex. Farming & Citric. 27(5):8. Nov.1950. 80 T31
- 22435 WHITNALL, A. B. M., and WHITEHEAD, G. B. Insects in the homes of rural natives [South Africa]. Farmer's Wk. [Bloemfontein] 80:13. Nov.8,1950. 24 F225
- 22436 WILLE, J. E. El control de los insectos del algodono en la campaña 1949-1950. Vida Agr. [Lima] 27:725-727,729,731-732. Sept.1950. 9.8 V66  
Peru.
- 22437 WILSON, G. F. Glasshouse fumigation. Gard. Chron. 128:190-191. Nov.11,1950. 80 G162
- 22438 WINTERINGHAM, F. P. W., HARRISON, A., and BRIDGES, R. G. Analysis of DDT derivatives by reversed-phase paper partition chromatography. Nature [London] 166:999. Dec.9,1950. 472 N21
- 22439 WORLD HEALTH ORGANIZATION. Expert committee on insecticides; report on the first session, Cagliari, 10-15 May 1949. World Health Organ. Tech. Rpt. Ser. 4,46 p. Oct.1950. 449.9 W892T
- 22440 YAMAGUCHI, K., and others. Studies on the insecticidal action of Japanese plants. II. A general method of detecting effective fraction and its application to 24 species of insecticidal plants. (In Japanese.) Botyu-Kagaku 15:62-70. June 1950. 421 B65  
T. Suzuki, A. Katayama, M. Sasa, and S. Iida, joint authors.  
English summary.

## APICULTURE AND APIS MELLIFERA

- 22441 ABROMEIT, K. Zum thema standard und leistung. Niedersächs. Bienenfr. 1950:278-281. Oct.1950. 424.8 N552  
Chiefly on breeding.
- 22442 BARNES, R. H. Dutch skeps. Gleanings Bee Cult. 79:22-23. Jan.1951. 424.8 G47
- 22443 BEILMANN, A. P. Weed killers and bee pasture. Amer. Bee J. 90:542-543. Dec.1950. 424.8 Am3
- 22444 BELDAME, R. La ruche mixte "Langstroth". Gaz. Apic. 51:226-227. Oct.1950. 424.8 G25
- 22445 BENT, E. R. A bee-keeper's progress. Aldershot, Gale & Polden, 1950. 142 p. 424 B442B  
Great Britain.
- 22446 BERGMANN, A. T. Decline of apiculture in Limeira, S. P. (In Portuguese.) Chacaras e Quintais 82:600-601. Nov.15,1950. 9.2 C34
- 22447 BUTANI, D. K. Bee keeping. Indian Bee J. 12: 111,113. July/Aug.1950. 424.8 In2
- 22448 BUTLER, C. G. How bees find their way. Discovery 11:366-368. Nov.1950. 472 D63
- 22449 BUTLER, C. G. A new design of microsyringe tip for the instrumental insemination of queen honeybees. Nature [London] 166:957-958. Dec.2,1950. 472 N21



- 22450 COLEMAN, R. Bee combs—preparation and manipulation. West. Austral. Dept. Agr. J. (ser.2)27:185-193. June 1950. 23 W52J  
Revised from Leaflet 566.
- 22451 COLLINS, W. A. Swarm control in bees. Victoria. Dept. Agr. J. 48:406,419. Sept.1950. 23 V66J
- 22452 COLLINS, W. A. Swarm control in the apiary. Victoria. Dept. Agr. J. 48:510-511. Nov.1950. 23 V66J
- 22453 CUMMING, A. R., and LOGAN, M. Beekeeping, craft and hobby. London, Oliver and Boyd, 1950. 157 p.  
424 C912
- 22454 CURY, R. Diseases of bee larvae. 2-4. (In Portuguese.) *Biológico* 16:59-66. Mar.1950. 442.8 B529  
2, European foulbrood group; 3, Para-foulbrood; 4, Sacbrood.
- 22455 CURY, R. Diseases of the adult bee. 5-8. (In Portuguese.) *Biológico* 16:106-113. May 1950. 442.9 B529  
5, Acariasis [including description of *Acarapis woodi*]; 6, Myiasis [*Myiapis angellozi*, *Melaloncha ronnai*, *Sarcophaga surrubea*, *Helicobiopsis* sp., *Myopa* sp.]; 7, Verminosis [*Mermis* spp., *Gordius aquaticus*]; 8, Paralysis.
- 22456 CUTTS, N. A. Central and mobile outfits for the extraction of honey. Agr. Gaz. N. S. Wales 61:538-540. Oct.2,1950. 23 N472
- 22457 DELPEREE, R. A survey of Belgian apiculture in 1949. *Mod. Beekeeping* 35:326-330. Oct.15,1950. 424.8 B397
- 22458 ECKERT, J. E. A beekeeping marathon. Amer. Bee J. 91:14-15. Jan.1951. 424.8 Am3  
Observations on current practices in the industry.
- 22459 EWING, J. T. Sask. beemen fight European foul brood. West. Canada Beekeeper 13(12):3-4. Dec. 1950. 424.8 W525
- 22460 GAYVORONSKIĬ, I. M. Frame separators. (In Russian.) *Pchelovodstvo* 27:371. July 1950. 424.8 P295
- 22461 GARCÍA VINUESA, Los veterinarios y las abejas. *Lérida Ganad.* (ser.3)116:110-111. June 1950. 41.8 L56
- 22462 GERLICH, N. Die bestimmung der zentralnervösen wirkung des bienengiftes und des giftes von *Lachesis jararacu*. *Arch. f. Expt. Path. u. Pharmakol.* 211:97-101. 1950. 448.8 Ar2
- 22463 GONTARSKIĬ, H. Ein fall von parasitärer melanose der pharynxdrüsen bei pollensammelnden bienen. *Z. f. Bienenforsch.* 1:7-12. Ref. July 1950. 424.8 Z3  
Due to *Melanosella mors* apis.
- 22464 GORDEEV, S. V. A screen for the upper opening in hives. (In Russian.) *Pchelovodstvo* 27:372. July 1950. 424.8 P295
- 22465 GUILHON, J. Action du chlordane sur les abeilles. *Acad. Vét. de France. B.* 23:431-434. Oct.1950. 41.9 R24
- 22466 HAMMER, O. Is it due to a misunderstanding that hormones are the cause of most bee poisoning this year too? (In Danish.) *Dansk Landbr.* 69:540-541. Oct. 26,1950. 280.28 V91  
Similar title in *Dansk Frøavl* 33:227. Nov.1,1950. 61.8 D23
- 22467 HAMMER, O. On the causes of bee poisoning. (In Danish.) *Tidsskr. f. Frøavl* 39:89-91. Nov.10,1950. 61.8 T43  
Economic poisons.
- 22468 HANSSON, Å. Biskötsel och växtodling [Apiculture and plant growing]. Lund, Gleerups, 1950. 102 p. 424 H192
- 22469 HANSSON, Å. The connection between the longevity of the bees and their access to pollen. (In Swedish.) *Nord. Bitidskr.* 2:65-68. 1950. 424.8 N752
- 22470 HANSSON, Å. Time and space in the life of the worker bee. (In Swedish.) *Nord. Bitidskr.* 2:80-83. 1950. 424.8 N752
- 22471 HAYDAK, M. H., and VIVINO, A. E. The changes in the thiamine, riboflavin, niacin and pantothenic acid content in the food of female honeybees during growth with a note on the vitamin K activity of royal jelly and beebread. *Ent. Soc. Amer. Ann.* 43:361-367. Ref. Sept. 1950. 420 En82
- 22472 HOLZBERLEIN, J. W., JR. Our national organization. Amer. Bee J. 91:12-13. Jan.1951. 424.8 Am3  
American Beekeeping Federation.
- 22473 HOYER, Das gesetz schützt den imker. *Niedersächs. Bienenfr.* 1950:252. Sept.1950. 424.8 N552  
Insecticide poisoning of bees.
- 22474 JARVIS, D. C. The use of honey in allergy. Amer. Bee J. 90:530-531. Dec.1950. 424.8 Am3
- 22475 JARVIS, D. C. The use of honey to produce sleep. Amer. Bee J. 91:15. Jan.1951. 424.8 Am3
- 22476 KALACHEV, A. I. Preservation and utilization of spare fertile queens. (In Russian.) *Pchelovodstvo* 27:369. July 1950. 424.8 P295
- 22477 KARTASHEV, G. A. How to extract heather honey. (In Russian.) *Pchelovodstvo* 27:368-369. July 1950. 424.8 P295
- 22478 KASSE, H. Apiculture in Schleswig-Holstein. (In Swedish.) *Bitidningen* 49:393-397. Dec.1950. 424.8 B54
- 22479 KLIMENKO, G. D. Simplified formula for determining the gross yield of beeswax at apiaries. (In Russian.) *Pchelovodstvo* 27:343-345. July 1950. 424.8 P295
- 22480 KLYKOV, V. Honeycomb building. (In Russian.) *Pchelovodstvo* 27:362-364. July 1950. 424.8 P295
- 22481 KOLLING, F. Eine zweckmässige fluglochblende. *Niedersächs. Bienenfr.* 1950:282-283. Oct.1950. 424.8 N552
- 22482 KOOVER, C. J. For amateur beekeepers only. *Gleanings Bee Cult.* 79:24-25. Jan.1951. 424.8 G47  
Wintering bees in California.
- 22483 KOPTEV, V. S. To improve the form of production accounting for collective farm apiaries. (In Russian.) *Pchelovodstvo* 27:339-342. July 1950. 424.8 P295
- 22484 KOROVOCHKIN, M. We shall give our country more honey and beeswax. (In Russian.) *Pchelovodstvo* 27:337-339. July 1950. 424.8 P295  
Apiculture in Mosalskiĭ District in Kaluga Region.
- 22485 KUURMA, K. Beekeeping in Finland. *Mod. Beekeeping* 35:293-295,313. Sept.15,1950. 424.8 B397
- 22486 LOPYGIN, S. P. Use of norsulfazol sodium in the treatment of foulbrood. (In Russian.) *Pchelovodstvo* 27:370. July 1950. 424.8 P295
- 22487 LATIF, A., and YUNUS, C. M. The common or green bee-eater as an enemy of honeybees. *Bee World* 31:91-92. Dec.1950. 424.8 B399
- 22488 LIÑAN y HEREDIA, N. J. DE. La apicultura en la Feria del Campo. *Ganadería [Madrid]* 8:469-473. July 1950. 49 G15  
Spain.
- 22489 LUNDER, R. Modern American views on the wintering of bees. (In Swedish.) *Nord. Bitidskr.* 2:69-77. Ref. 1950. 424.8 N752
- 22490 LUNDER, R. The nosema problem. What can we do to control this disease in the North. (In Swedish.) *Nord. Bitidskr.* 2:84-87. Ref. 1950. 424.8 N752
- 22491 MAINELLI, A. As autumn advances: advice to apiculturists. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:300-301. Nov.15,1950. 16 C72
- 22492 MEDICI, M. Como se cosecha la miel de abeja. *Charla Rur.* 144:18-19,56. Oct.1950. 9 C37
- 22493 MEYER, H. Reinzucht. *Niedersächs. Bienenfr.* 1950:215-217. Aug.1950. 424.8 N552
- 22494 MICKWITZ, R. An experiment with food chamber wintering. (In Swedish.) *Nord. Bitidskr.* 2:78-79. 1950. 424.8 N752
- 22495 MONTGOMERY, B. E. Honeybee brood diseases. *Purdue U. Agr. Ext. B.* 212,12 p. 1950. 275.29 In2E  
American foulbrood, European foulbrood, and sacbrood.
- 22496 MULLER, H. La grappe, cette inconnue. *Gaz. Apic.* 51:233-234. Oct.1950. 424.8 G25  
The bee cluster as an organism.
- 22497 MUTTOO, R. N. Advice to beginners. *Indian Bee J.* 12:105. July/Aug.1950. 424.8 In2
- 22498 MUTTOO, R. N. Beekeeping in India. *Gleanings Bee Cult.* 79:16-19,59,63. Jan.1951. 424.8 G47
- 22499 MUTTOO, R. N. My experiments with pollen substitutes. *Indian Bee J.* 12:112-113. July/Aug.1950. 424.8 In2
- 22500 NEUENSCHWANDER, H. Warum schlechtere honigernten? *Schweiz. Bienen Ztg.* 73:511-515. Nov. 1950. 424.8 Sch9
- 22501 NOSACHENKO, V. Wintering of honeybees in insulated hive-rows. (In Russian.) *Pchelovodstvo* 27:365-367. July 1950. 424.8 P295
- 22502 OLEINIK, A. P. Blooming lilac—cause of honeybee robbing. (In Russian.) *Pchelovodstvo* 27:369-370. July 1950. 424.8 P295
- 22503 OLFWENSTAM, E. Feeding of bees. (In Swedish.) *Bitidningen* 49:406-407. Dec.1950. 424.8 B54



- 22504 OVECHKIN, N. M. Wintering of honeybees in the ground. (In Russian.) *Pchelovodstvo* 27:364-365. July 1950. 424.8 P295
- 22505 PATERSON, C. R. Warming-room unit for comb honey. *New Zeal. J. Agr.* 81:315-316. Oct. 1950. 23 N48J
- 22506 PELLETT, F. C. Bee pasture and the pollination problem. *Iowa State Hort. Soc. Trans.* 84:205-217. 1949. 81 I69
- 22507 PEREZ, J. Instalación de un colmenar. *Pampa Argentina* 23(276):2. Nov. 1950. 9 P19
- 22508 PERRET-MAISONNEUVE, A. L'apiculture intensive et l'élevage des reines. Ed. 6. Paris, Presses Universitaires de France, 1949. 754 p. 424 P42
- 22509 PLANCKH, L'apiculture en Autriche. *Gaz. Apic.* 51:228-232. Oct. 1950. 424.8 G25
- 22510 PREISIG, R. 20 Jahre belegstation Riedern-Roggwil. *Schweiz. Bienen Ztg.* 73:510. Nov. 1950. 424.8 Sch9
- 22511 PRICE, W. A. Beekeeping in Indiana, revised by B. E. Montgomery. *Purdue U. Agr. Ext. B.* 158, rev., 28 p. 1950. 275.29 In2E
- 22512 PURSEY, M. Know your bees. X. Bee Craft Stings. *Bee Craft* 32:217. Dec. 1950. 424.8 B3925
- 22513 RAWAT, B. S. Ranikhet bees. *Indian Bee J.* 12:108. July/Aug. 1950. 424.8 In2
- 22514 ROBERTS, D. Improved pricker pad. *New Zeal. J. Agr.* 81:421-422. Nov. 1950. 23 N48J  
Used in honey extraction.
- 22515 ROSWALL, G. Marking of a queen. (In Swedish.) *Bitidningen* 49:393. Dec. 1950. 424.8 B54
- 22516 RUNGE, B. Umzug mit bienen. *Niedersächs. Bienenfr.* 1950:268. Sept. 1950. 424.8 N552
- 22517 SCHMIDT, H. W. Höselhefe im herbst oder frühjahr. *Niedersächs. Bienenfr.* 1950:262-263. Sept. 1950. 424.8 N552
- 22518 SECHRIST, E. L. American scientist's advice on Indian bee-keeping. *Indian Bee J.* 12:99-104. July/Aug. 1950. 424.8 In2  
Includes discussion.
- 22519 SHARMA, P. L., and SHARMA, A. C. Influence of numbers in a colony on the honey gathering capacity of bees. *Indian Bee J.* 12:106-107. July/Aug. 1950. 424.8 In2
- 22520 SJÖGREN, S. Egg laying frames. (In Swedish.) *Bitidningen* 49:405. Dec. 1950. 424.8 B54  
For honey bees.
- 22521 SOLODKOVA, N. A. Gray high-mountain Caucasian honeybees under conditions of Tatar ASSR. (In Russian.) *Pchelovodstvo* 27:349-355. July 1950. 424.8 P295
- 22522 SPIELMANN, O. Zum erntebericht 1950. *Schweiz. Bienen Ztg.* 73:506-508. Nov. 1950. 424.8 Sch9
- 22523 STANLEY, O. Crianza de reinas. *Agr. Austral* 18:428-429, 482-483. Sept.-Oct. 1950. 9.3 Ag842
- 22524 STRICKER, M. H. Caucasians vs. Italians. *Gleanings Bee Cult.* 79:9-12. Jan. 1951. 424.8 G47
- 22525 SWAIN, I. L. Beekeeping in Washington State. *Mod. Beekeeping* 35:324-325. Oct. 15, 1950. 424.8 B397
- 22526 TARANOV, G. F. On results of importing southern honeybees into the North [U.S.S.R.]. (In Russian.) *Pchelovodstvo* 27:356-361. July 1950. 424.8 P295
- 22527 TUNBLAD, B. Agreement on measures against poisoning of bees. (In Swedish.) *Sweden. Stat. Växtskyddsanst. Växtskyddsnotiser* 1950:1-3. Mar. 1950. 464.9 Sw9V
- 22528 TUSCHHOFF, O. Still umweltselnde völker. *Niedersächs. Bienenfr.* 1950:283-285. Oct. 1950. 424.8 N552
- 22529 TUSCHHOFF, O. Zwei königinnen in einem volk. *Niedersächs. Bienenfr.* 1950:248-250. Sept. 1950. 424.8 N552
- 22530 VOLNIN, A. How the leading beekeepers operate in our [Anapa] District. (In Russian.) *Pchelovodstvo* 27:346-347. July 1950. 424.8 P295
- 22531 VOMSATEL, M. Verantwortung bei transportverlusten. *Schweiz. Bienen Ztg.* 73:515-516. Nov. 1950. 424.8 Sch9
- 22532 WAHLIN, B. The bees and the hormone derivative. (In Swedish.) *Sweden. Stat. Växtskyddsnotiser* 1950:45-48. Aug. 1950. 464.9 Sw3V  
Toxicity to bees.
- 22533 WEBB, MRS. E. R. Why beekeepers turn gray. *Mod. Beekeeping* 35:302-304, 313. Sept. 15, 1950. 424.8 B397
- 22534 WHEELER, A. G. Brood space. *Bee Craft* 32:217-218. Dec. 1950. 424.8 B3925
- 22535 WHITE, A. C. Operation pollination. *Agrarian* 10:6, 28. Nov. 1950. 276.8 Ag8  
*Apis mellifera*.
- 22536 WITSCHI, F. Vereinfachte königinnenzucht. *Schweiz. Bienen Ztg.* 73:508-509. Nov. 1950. 424.8 Sch9
- 22537 WULFRATH, A., and SPECK, J. J. De la colmena antigua al lucrativo negocio de la colmena moderna. *Tierra [Mexico]* 5:612-614. (Cont.) Nov. 1950. 8 T445
- 22538 ZIEGLER, R. J. Thinking of winter. *Mod. Beekeeping* 35:338-341, 343. Oct. 15, 1950. 424.8 B397

## ARACHNIDA, MYRIAPODA, ETC.

- 22539 AUERBACH, S. I. A new species of centipede from a tree hole in California. *Nat. Hist. Misc.* 76, 5 p. Dec. 29, 1950. 500 C43Na  
In Simobius.
- 22540 BAILEY, V. D. Las garrapatas del ganado. *Cent. Nac. de Agron. C. Agr.* 15, 4 p. Sept. 1950. 8 Sa54C  
On cattle.
- 22541 BERTIN S., V. Ensayos sobre tratamiento de la sarna con gammexano. *Chile. U. Dept. de Parasitol. B. de Inform. Parasitarias Chilenas* 5:30-31. July/Sept. 1950. 436.9 C43  
English summary.  
Scabies in man.
- 22542 CASSAMAGNAGHI, A. (HIJO), BIANCHI BAZERQUE, A., and FERRANDO, H. Sobre las endocariasis de las gallinas y palomas domésticas. *Uruguay. Dir. de Ganad. B. Mens.* 31:275-280. Ref. Apr./June 1950. 41.9 Ur8  
*Cytolichus nudus*; *Laminosioptes cysticola*.
- 22543 CAUSEY, N. B. Five new Arkansas millipeds of the genera *Eurymerodesmus* and *Paresmus* (Xystodesmidae). *Ohio J. Sci.* 50:267-272. Nov. 1950. 410 Oh3
- 22544 CAUSEY, N. B. On four new polydesmoid millipeds. *Ent. News [Philadelphia]* 61:193-198. Dec. 1950. 421 En88  
In *Brachoria*, *Nannaria*, *Eurymerodesmus*, and *Polydesmus*.
- 22545 CHAMBERLIN, R. V. Some chilopods from Puerto Rico. *Biol. Soc. Wash. Proc.* 63:155-162. Dec. 29, 1950. 500 W272  
New species in *Schendylota* n.g., *Portoricellus* n.g., *Algunuis* n.g., *Ballophilus*, *Clavophilus* n.g., *Notiphilides*, and *Portoricona* n.g.
- 22546 CHAMBERLIN, R. V. Some diplopods from Puerto Rico. *Biol. Soc. Wash. Proc.* 63:147-154. Dec. 29, 1950. 500 W272  
Includes new species in *Glomeridesmus*, *Cryptogonodesmus*, *Tridesmus*, *Iomus*, *Liomus* n.g., and *Microspirobolus*.
- 22547 CHAMBERLIN, R. V. Three new genera and eight new species of western millipeds. *Nat. Hist. Misc.* 68, 6 p. Oct. 12, 1950. 500 C43Na  
New species in *Euzonium* n.g., *Pizonium* n.g., *Bellozium*, *Stenocybe* n.g., *Eucybe*, *Sophiulus*, *Urobaniulus*, and *Atopetholus*; also *Rhinocricus simulatus* new name for *R. simulans* Chamberlin 1947, not Chamberlin 1922.
- 22548 CHRYSANTHUS, FATHER. *Tetragnatha nigrita* Lendl new for Netherlands fauna. (In Dutch.) *Ent. Ber.* 13:145-146. Oct. 1950. 420 N38B
- 22549 CLOUDSLEY-THOMPSON, J. L. Economics of the "spotted snake-millipede," *Blaniulus guttulatus* (Bosc). *Ann. & Mag. Nat. Hist. (ser. 12)* 3:1047-1057. Ref. Dec. 1950. 410 An77
- 22550 CRABILL, R. E., JR. On a collection of centipeds from western South Carolina. *Ent. News [Philadelphia]* 61:199-202. Dec. 1950. 421 En88
- 22551 CRABILL, R. E., JR. On the true identity of *Arctogeophilus fulvus* (Wood), with some remarks concerning the status of *Meclistocephalus melanotus* Wood (Chilopoda: Geophilomorpha: Geophilidae). *Canad. Ent.* 82:253-256. Dec. 1950. 421 C16
- 22552 CROWELL, R. M. Preliminary observations on the occurrence of water-mites on insects in the Duke Forest. (Abs.) *J. Parasitol.* 36(6, sect. 2):32. Dec. 1950. 448.8 J824



- 22553 FOX, I. A new tyroglyphid mite from Puerto Rico. Biol. Soc. Wash. Proc. 63:205-208. Dec.29,1950. 500 W272  
Suidasia insectorum feeds on dead insects; pest of museum collections.
- 22554 GERRITSEN, G. Big bud on black currants. (In Dutch.) Volkstuin 33:135. Dec.1950. 80 V88  
Caused by big bud mites.
- 22555 GISPEN, R. The virus of murine typhus [i.e. Rickettsia mooseri- R. typhi] in mites (Schöngastia indica, fam. Trombiculidae). Doc. Neerland. et Indonésica de Morbis Trop. 2:225-230. Ref. Sept.1950. 448.8 D65
- 22556 HEISCH, R. B. On Spirochaeta dipodilli sp. nov., a parasite of pygmy gerbils (Dipodillus sp.). Ann. Trop. Med. & Parasitol. 44:260-272. Ref. Oct.1950. 448.9 L75A  
Ornithodoros erraticus is vector; tests with Ornithodoros spp. and Pediculus spp.
- 22557 HOFFMAN, R. L. American polydesmoid millipeds of the genus Sigmoria, with notes on distribution. Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1462, 7 p. Ref. Aug.14,1950. 500 N483N
- 22558 HOFFMAN, R. L. The status of the milliped Chelodesmus marxi Cook, and of the family name Chelodesmidae. Biol. Soc. Wash. Proc. 63:185-188. Dec.29, 1950. 500 W272  
Now Eurydesmus marxi.
- 22559 HUGHES, T. E. Some stages of Litomosoides carinii in Liponyssus bacoti. Ann. Trop. Med. & Parasitol. 44:285-290. Oct.1950. 448.9 L75A
- 22560 HUMES, A. G., and JAMNBACK, H. A. Distribution and host relationships of a mite [Najadicola ingens] parasitic in fresh-water clams. (Abs.) J. Parasitol. 36 (6,sect.2):32. Dec.1950. 448.8 J824
- 22561 HYLAND, K. E. The life cycle and parasitic habit of the chigger mite Hannemania dunni Sambon, 1928, a parasite of amphibians. (Abs.) J. Parasitol. 36 (6, sect.2):32-33. Dec.1950. 448.8 J824
- 22562 JONES, B. M. Acarine growth: a new ecdysial mechanism. Nature [London] 166:908-909. Nov.25,1950. 472 N21
- 22563 JONES, B. M. Experimental rearing of the British harvest mite [Trombicula autumnalis] to the adult stage. Nature [London] 166:823. Nov.11,1950. 472 N21
- 22564 JONG, B. DE. Mating biology in spiders. (In Dutch.) Nederland. Ent. Ver. Verslag en Wetensch. Meded. 9:lix-lxiv. 1950. 420 N28V
- 22565 KASCHULA, V. R. "Scaly-leg" of the canary (Serinus canaria (Linn)). So. African Vet. Med. Assoc. J. 21:117-119. Sept.1950. 41.8 So8  
Due to a Cnemidocoptes resembling C. mutans.
- 22566 KEEGAN, H. L. Dynatopchela primus n. sp., n. gen. (Acarina; Laelaptidae; Iphlopiinae). J. Parasitol. 36:511-514. Dec.1950. 448.8 J824
- 22567 KUMMER, H., and KUPKA, T. Milben in futtermitteln. Bad. Landwirt. Wehnl. 117:791-792. Nov.18,1950. 18 B142
- 22568 LANDRO, C. DI, and ROSSI LEMA, L. Tiroglasis en productos de chacinería (polilla del salame). Rev. de Med. Vet. [Montevideo] 4:882-886. Mar./June 1949. 41.8 R327  
Tyrophagus longior.
- 22569 LEATHERDALE, D. Notes on the degree of galling caused by Eriophyes avellanae Nalepa (Acarina, Eriophyidae) on hazel. Ent. Mon. Mag. 86:357-358. Dec. 1950. 421 En86
- 22570 LEES, A. D. Diapause and photoperiodism in the fruit tree red spider mite [Metatetranychus ulmi Koch [i.e. Paratetranychus pilosus (C. & F.)]]. Nature [London] 166:874-875. Nov.18,1950. 472 N21
- 22571 LORDELLO, L. G. E. Brief notes on scorpions and the scorpion problem of Ribeirão Preto. (In Portuguese.) Rev. de Agr. [Piracicaba] 25:313-316. Sept./Oct 1950. 9.2 R324
- 22572 MAYER, K. Urodnychus karawelewi Berl., ein neuer schädling an porree. Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n.s.) 4:175-176. Sept.1950. 464.9 N11
- 22573 MIDDLEKAUFF, W. W., and MICHELBAACHER, A. E. Spider mite infestation on walnuts; control trials with aramite promising. Diamond Walnut News 33:6-9. Jan.1951. 94.68 D34  
Paratetranychus pilosus and Tetranychus pacificus.
- 22574 MILLER, L. W. Factors influencing diapause in the European red mite [Paratetranychus pilosus]. Nature [London] 166:875. Nov.18,1950. 472 N21
- 22575 NÁJERA, J., and MAYER, H. Ensayos acerca de la acción in vitro de diversos insecticidas sintéticos sobre el Psoroptes equi v. cuniculi (Delafona, 1859). Rev. de Sanidad Vet. 5:747-749. Nov.15,1950. 41.8 R3222  
DDT and benzene hexachloride.
- 22576 NESBITT, H. H. J. On a new Argentinian mite, Diphtheroglyphus maculata n. sp., n. gen., and the taxonomic position of the family Pontoppidanidae Oudms. 1925. Canad. Ent. 82:211-216. Oct.1950. 421 C16
- 22577 PAVLOV, P., and GUEORGUEV, B. Recherches sur les ixodides HCH, DDT, gesarol et Dedetex puder. (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis. 18:107-118. Ref. 1950. 106.3 R32  
French summary.
- 22578 PEROTTI, R. M. La garrapata de la gallina [Argas persicus] y el D. D. T. Vida Agr. [Lima] 27:831, 833,835. Oct.1950. 9.8 V66
- 22579 RADFORD, C. D. Systematic check list of mite genera and type species. Union Internatl. des Sci. Biol. Sér. C (Sect. d'Ent.) 1,232 p. 1950. 442.9 In85
- 22580 ROEWER, C. F. Einige neue gattungen der Phalangodidae (Opiliones). Mus. f. Nat.- Völker- u. Handelsk. Veröffentl. Reihe A 1:143-144. 1949. 509 B752  
Adornellus, Belemarua, Buparomma, Goodnightiella, Hirstienus, Zalmoxissus, Zalmoxista, Arinda, Derzius, Lanesoares, Melloceras, Mellops, Soaresula, and Vimula; also Panopiliops, new name for Panoplia Roewer, not Huebner and Heyden.
- 22581 RUTLEDGE, L. J., and others. Rocky Mountain spotted fever; report of 2 cases in Louisiana. New Orleans Med. & Surg. J. 103:261-266. Ref. Dec.1950. 448.8 N47  
B. R. Clanton, M. Hood, and M. H. D. Smith, joint authors.  
Known vectors in Louisiana: Dermacentor variabilis and Amblyomma americanum.
- 22582 SAVIK, G. F. Benzene hexachloride—effective prophylactic means against ticks, vectors of Haemosporeidia in horses. (In Russian.) Konevodstvo 20(7):14-18. July 1950. 42.8 K832
- 22583 SCHULZE, P. Amblyomma diemeniae, eine neue schlangenzecke aus Australien nebst bemerkungen über abweichende clavabildungen in der gattung Amblyomma. Z. f. Parasitenk. 14:432-441. Ref. 1950. 442.8 Z33F
- 22584 SMITH, L. M., and STAFFORD, E. M. Grape bud mite [Eriophyes vitis] symptoms difficult to detect; pest causes serious crop loss. West. Fruit Grower 4(11): 11-12. Nov.1950. 95.8 G762A
- 22585 STARKOFF, O. Notes on the technique for making preparations of mites. (In Italian.) Riv. di Parassitol. 11:187-196. Sept.1950. 436.8 R52
- 22586 STEPHAN, S. A. R., KASCHULA, V. R., and CANHAM, A. S. Respiratory acariasis of canaries. So. African Vet. Med. Assoc. J. 21:103-107. Sept.1950. 41.8 So8  
Due to Sternosoma tracheacolum.
- 22587 TENDEIRO, J. Some anomalies in the ornamentation of Amblyomma variegatum (Fabricius 1794). (In Portuguese.) Rev. de Med. Vet. [Lisboa] 44:248-266. Ref. Oct./Dec.1949. 41.8 R3215
- 22588 THOMAS, A. D. Skin necrosis in dogs caused by the bontpoot tick (Hyalomma aegyptium). Soc. African Vet. Med. Assoc. J. 21:114-116. Sept.1950. 41.8 So8
- 22589 VERGANI, A. R. Brevipalpus pseudocuneatus (Blanchard) Baker. IDIA; Inform. de Invest. Agr. 3 (33/34):34. Sept./Oct.1950. 9 Id3
- 22590 WENCK, GROSSCHÄDLING "rote spinne." Obstbau 69:137. Sept.1,1950. 80 Ob73  
Paratetranychus pilosus.
- 22591 WHITCOMB, W. D. Relation of host plants and temperature to the abundance of red spider mite [Tetranychus bimaculatus]. Carnation Craft 1950(14):3. Oct. 1950. 80 C21  
In greenhouses.
- 22592 WILLMANN, C. Beiträge zur kenntnis des salzgebietes von Ciechocinek. 1. Milben aus den salzwiesen und salzmooren von Ciechocinek an der wechsel. Mus. f. Nat.- Völker- u. Handelsk. Veröffentl. Reihe A 1: 106-135. Ref. 1949. 509 B752
- 22593 WOLFFHÜGEL, K. Zur schafzräude (Psoroptes). Berlin. u. Münch. Tierärztl. Wehnschr. 1950:184-185. Ref. Sept.1950. 41.8 B45



## COLEOPTERA

- 22594 AGUILAR, J. D'. Nouvelles études sur le problème des taupins en Bretagne. Acad. d'Agr. de France. Compt. Rend. 36:561-565. Oct.11/18,1950. 14 P215Bc
- 22595 APP, B. A., and EVERLY, R. T. Insecticide dusts to control the clover root borer [Hylastinus obscurus] and the meadow spittlebug [Philaenus leucophthalmus]. U. S. Bur. Ent. & Plant Quar. E-911, 8 p. Dec.1950. 1.9 En83
- 22596 BARTHE, R. L'aile membraneuse des Carabini (première note); Orinocarabus (Archicarabus) nemoralis O. F. Müller. Rev. Franç. d'Ent. 17:188-192. 1950. 421 R323
- 22597 BARTHE, R. Habitat et répartition française de *Goërius pedemontanus* subsp. *pyrenaeus* Müller. Entomologiste 6:76-77. May/June 1950. 421 En814
- 22598 BASILEWSKY, P. Études sur les chlaeniens d'Afrique. IV. (Coleoptera Callistidae). Rev. Franç. d'Ent. 17:184-188. 1950. 421 R323
- New species in *Baldochlaenius* and *Pseudochlaenius*.
- 22599 BECHYNE, J. Notes sur les Eumolpides de l'Amérique du Sud. Ann. & Mag. Nat. Hist. (ser.12)3: 1067-1091. Dec.1950. 410 An77
- Includes new species in *Iphimeis*, *Coytiera*, *Maecolaspis*, *Podoxenus*, *Rhabdopterus*, *Entomochirus*, and *Phanaeta*.
- 22600 BECKER, H. Frassschäden an korken durch speckkäfer [Dermestes vulpinus]. Weinbau 5:232. June 18,1950. 390.8 W432
- 22601 BIRD, R. D. Studies in the biology and control of the sweetclover weevil [Sitona cylindricollis] (Coleoptera: Curculionidae) in Manitoba, 1945-1949. Ent. Soc. Ontario. Annu. Rpt. (1949)80:31-36. 1950. 420 On8
- 22602 BÖHM, H. Beobachtungen über das auftreten des rauhaarigen rosenkäfers als schädling von obstbaumblüten in Österreich (Tropinota (Epicometis) hirta Poda). Pflanzenschutzberichte 5:241-257. Ref. Sept. 1950. 464.9 P48
- English summary.
- 22603 BOULTON, E. H. B. The identification and treatment of defects in timber. Land Agents' Rec. 126: 273. (Cont.) Dec.25,1950. 10 L222
- Caused by *Anobium punctatum* and *Lycus brunneus*.
- 22604 BOURGIN, P. L'allotrophie au cours de élevages. Entomologiste 6:83-84. May/June 1950. 421 En814
- In Carabidae.
- 22605 BRAKMAN, P. J. *Saprinus cuspidatus* Ihssen, a new histerid for the Netherland fauna. (In Dutch.) Ent. Ber. 13:157. Oct.1950. 420 N38B
- 22606 BURNETT, D., JR. Can you identify fabric pests? 3. Carpet beetles. Pest Control 19:16,18,20. Jan. 1951. 449.8 Ex8
- Description of *Anthrenus verbasci*, and larvae of *Attagenus piceus*, *Anthrenus scrophulariae*, *A. vorax*, and *A. verbasci*; principles of control; list of dermestids attacking fabrics in other parts of the world.
- 22607 CARÈ, E. Experiments on the combination of DDT with bentonite against *Sitophilus granarius* in fixed situation. (In Italian.) B. di Zool. Agr. e Bachicoltura. 16: 37-46. 1950. 423.92 B63
- 22608 CARTER, A. R., and WILLIS, S. J. Damage to Geum and Potentilla by Rhynchites germanicus Herbst and Anthonomus rubi Herbst (Col., Curculionidae). Ent. Mon. Mag. 86:356-357. Dec.1950. 421 En86
- 22609 COULON, M. DE. Composition des peuplements et dégâts du bostryche curvidenté [Ips curvidens]. Schweiz. Z. f. Forstw. 100:355-360. July/Aug.1949. 99.8 J82
- 22610 CROWSON, R. A. The classification of the families of British Coleoptera. Ent. Mon. Mag. 86:337-344. (Cont.) Dec.1950. 421 En86
- 22611 DAMMERMAN, K. W. Continuity versus priority in nomenclature. Tijdschr. v. Ent. (1949)92:34-52. Ref. 1950. 421 T21
- With special reference to Coleoptera.
- 22612 DAMMERMAN, K. W. Nomina conservanda of Coleoptera. II. Ent. Ber. 13:154-155. Oct.1950. 420 N38B
- The type species of *Scolytus*, *Myelophilus* versus *Blastophagus*.
- 22613 DICKSON, R. C. The Fuller rose beetle [Pantomorus godmani], a pest of citrūs. Calif. Agr. Expt. Sta. B. 718,8 p. Oct.1950. 100 C128
- 22614 FANKHAUSER, F. Die borkenkäferschäden an der ersten Jurakette im Kanton Bern. Schweiz. Z. f. Forstw. 100:347-355. July/Aug.1949. 99.8 J82
- Ips curvidens*.
- 22615 FEYTAUD, J. Les Coléoptères du pin maritime. École Natl. des Eaux et Forêts et Sta. de Rech. et Expér. Ann. 12:3-96. Ref. 1950. 99.9 F845
- 22616 FREUDE, H. Liste der von P. Cornelius Vogl in Venezuela gefangenen käfer; I. Hispididae und Cassididae. B. de Ent. Venezol. 8:125-128. Dec.31,1949, pub. June 15, 1950. 421 B63
- 22617 GAUSS, R. Speckkäfer (Dermestes lardarius L.) als schädling in presskork. Anz. f. Schädlingk. 23: 154-155. Oct.1950. 421 An9
- 22618 GERBERICH, J. B. Insect enemies and friends of the timber country. II. White-pine weevil [Pissodes strobi]. Lake States Timber Digest 5:3-4,8. Nov.1950. 99.81 L14
- 22619 GILMOUR, E. F. New Dutch East Indian Lamiinae (Col., Cerambycidae). Tijdschr. v. Ent. (1949) 92:219-247. 1950. 421 T21
- New species and forms in *Agnia*, *Triammatulus*, *Pericycos*, *Cylindrepomus*, *Amblymora*, *Trigonoptera*, and *Tmesisternus*.
- 22620 GODAN, D. Parasitierung von rapserdflohlarven [Psylliodes chrysocephala]. Anz. f. Schädlingk. 23:150. Oct.1950. 421 An9
- 22621 GUILLAUME, A. Essais de lutte contre les bostryches qui, en ce moment, ravagent nos forêts de conifères. Acad. d'Agr. de France. Compt. Rend. 36:557-561. Oct.11/18,1950. 14 P215Bc
- Includes discussion by Jagerschmidt.
- Ips typographus* and *Ips sexdentatus*.
- 22622 HAGEN, K. S., and DOUTT, R. L. Brontispa yoshinoi Barber, a description of adult and immature stages (Coleoptera: Hispididae). Ent. Soc. Amer. Ann. 43: 311-319. Sept.1950. 420 En82
- 22623 HALLEMANS, A. On the first helicopter demonstration in Belgium and its connection with the fight against the strawberry weevil [Brachyrhinus sulcatus]. (In Flemish.) Cult. en Handel 16:724-727. Dec.1950. 80 C892
- 22624 HANF, M. Kartoffelkäferwanderung. Anz. f. Schädlingk. 23:161-163. Nov.1950. 421 An9
- Leptinotarsa decemlineata*.
- 22625 HASE, A. Zur geschichte der einbürgerung des speisebohnenkäfers [Acanthoscelides obtectus] und deren praktische folgen. Nachrbl. f. den Deut. Pflanzenschutzdienst (n.s.)4:181-185. Ref. Oct.1950. 464.9 N11
- 22626 HASEMAN, L. Flea beetle damage to garden crops. Mo. Agr. Expt. Sta. C. 350,2 p. July 1950. 100 M693
- Revision of Circular 260.
- 22627 HAZELTINE, W. Observations on flights of *Pleocoma conjungens* (Coleoptera: Scarabaeidae). Pan-Pacific Ent. 26:188-189. Oct.1950. 421 P193
- 22628 HINCKS, W. D. Systematic and faunistic notes on American Passalidae (Col.). Ann. & Mag. Nat. Hist. (ser.12)3:1033-1047. Dec.1950. 410 An77
- Includes new species and forms in *Verres*, *Paxillus*, and *Passalus*.
- 22629 HOFFMANN, A. Curculionides marocains inédits ou peu connus. Soc. Ent. de France. B. 55:83-93. 1950. 420 F84B
- New species and forms in *Otiorhynchus*, *Cyclobarus*, *Cathormiocerus*, *Strophosomus*, *Bletonius* n.g., *Cneorhinus*, *Pseudocleonus*, *Rungsonymus* n.g., *Rhytirhinus*, *Brachycerus*, *Sibinia*, and *Sitona*.
- 22630 HOFFMANN, A. Descriptions et observations concernant divers coléoptères pytophages de la région paléarctique. Rev. Franç. d'Ent. 17:192-199. 1950. 421 R323
- Includes new species and forms in *Urodon*, *Lixus*, *Bagous*, and *Baris*.
- 22631 HRBÁČEK, J. On the morphology and function of the antennae of the central European Hydrophilidae (Coleoptera). Roy. Ent. Soc. London, Trans. 101:239-256. Ref. Nov.30,1950. 420 L84
- 22632 JANY, E. Beobachtungen über das auftreten des kohlgaflenrüsslers (Ceutorhynchus pleurostigma Marsh.) Nachrbl. des Deut. Pflanzenschutzdienstes 2:97-99. July 1950. 442.9 B832
- 22633 JEANNEL, R. Un elmide cavernicole du Congo Belge (Coleoptera Dryopidae). Rev. Franç. d'Ent. 17:168-172. 1950. 421 R323
- In *Trogilelmis* n.g.



- 22634 JEANNEL, R. Un *Perigona microphthalmus* du Vénézuéla (Coleoptera Perigonidae). Rev. Franç. d'Ent. 17:166-167. 1950. 421 R323
- 22635 JEANNEL, R. Un *Plocamotrechus* de Madagascar (Coleoptera Trechinae). Rev. Franç. d'Ent. 17:172-175. 1950. 421 R323
- 22636 JEANNEL, R. Sur deux *Pterostichus* cavernicoles de Majorque. Rev. Franç. d'Ent. 17:157-165. 1950. 421 R323  
Includes new species in *Hypogeobium*.
- 22637 JEANNEL, R. Sur quelques carabiques de la famille des *Trechus* recueillis par M. Hugh Scott dans le sud de l'Abyssinie. Rev. Franç. d'Ent. 17:176-183. 1950. 421 R323  
New species in *Trechus*, *Microdipnus*, and *Cryptorites* n.g.
- 22638 JOLIVET, P. Sur un cas de trématélytrie chez *Crioceris asparagi* L. ♀ (Col. Crioceridae). Entomologiste 6:77-79. May/June 1950. 421 En814
- 22639 JOLY, P. Fonctionnement ovarien des carabes [*Carabus catenulatus*]. Soc. de Biol. Compt. Rend. 144:1217-1220. Sept. 1950. 442.9 P21
- 22640 KAMP, H. J. Einiges über das auftreten von *Melolontha melolontha* L. und *Melolontha hippocastani* F. in Württemberg. Anz. f. Schädlingsk. 23:167-168. Nov. 1950. 421 An9
- 22641 KNOWLTON, G. F. Colorado potato beetle [*Leptinotarsa decemlineata*]. Utah. State Agr. Col. Ext. B. 207,2 p. June 1950. 275.29 U11
- 22642 KOCHER, L. Un cas d'illusion sexuelle chez les *Anthaxia* (Col. Buprestidae). Soc. des Sci. Nat. du Maroc. B. 28:55. 1948, pub. 1950. 515 S01
- 22643 LE BERRE, J. R. Action des facteurs climatiques sur l'incitation au vol du doryphore. Paris. Acad. des Sci. Compt. Rend. 231:1096-1098. Nov. 13, 1950. 505 P21
- 22644 LEEDER, F. Eine neue *Phytodecta* aus den Ostalpen (Coleopt., Chrysomelidae). Wien. Ent. Gesell. Z. 35:21-22. Mar. 20, 1950. 421 Os7
- 22645 LEFEVRE, P. C. *Bruchus* [l. e. *Acanthoscelides*] *obtectus* Say ou bruche des haricots (*Phaseolus vulgaris* L.). Inst. Natl. pour l'Étude Agron. du Congo Belge. P. Sér. Sci. 48,65 p. Ref. 1950. 24 In7
- 22646 LEKANDER, B. Old house borer [*Hydrotripes bajulus*]. (In Swedish.) Skogen [Stockholm] 37:234-235, 238. Nov. 1, 1950. 99.8 Sk51
- 22647 LESSE, H. DE. Coléoptères du Grönland; Expédition Polaire Française. Zoologie (3 note). Entomologiste 6:73-76. May/June 1950. 421 En814
- 22648 LINSLEY, E. G., and MACSWAIN, J. W. New western species of *Rhipiphoridae* (Coleoptera). Wasmann J. Biol. 8:229-239. Summer 1950. 442.8 W28  
New species and forms in *Rhipiphorus* and *Macrosiagon*.
- 22649 LIU, C. L. Contribution to the knowledge of Chinese *Coccinellidae*. X. Occurrence of *Perilitus coccinellae* (Schrank), a parasite of adult *Coccinellidae*, in north China (Hymenoptera, Braconidae). Ent. News [Philadelphia] 61:207-208. Dec. 1950. 421 En88
- 22650 MCKELVEY, J. J. Resistencia al picudo del ejote [*Apion godmani*] en las variedades de frijol en Mexico. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:236-240. Nov. 1950. 8 M577Fm
- 22651 MADEL, W. Beobachtungen über das auftreten des "leindotterflüglers" *Ceuthorrhynchus syrittes* Germ. I. Nachrbl. des Deut. Pflanzenschutzdienstes 2:90-92. Ref. June 1950. 442.9 B832
- 22652 MALKIN, B. Notes on certain Mexican *Coccinellidae* (Coleoptera). Pan-Pacific Ent. 26:156-158. Oct. 1950. 421 P193  
Includes new species in *Scymnus*.
- 22653 MATEU, J. Carabidos nuevos o interesantes de la fauna ibérica. Eos 26:37-53. Jan./June 1950. 421 E07  
Includes new forms in *Haptoderus*, *Trechus*, and *Singilis*.
- 22654 MENDES, L. O. T. Determination of the biotic potential of the coffee berry borer, *Hypothenemus* [*Stenophanoderes*] *hampel* (Ferr.) and considerations on the growth of its population. (In Portuguese.) Bragantia 9:203-228. Sept./Dec. 1949. 102.5 B73Tb  
English summary.
- 22655 MÉQUIGNON, A. Les *Thanasymus* de France et leurs variétés (Cleridae). Entomologiste 6:69-70. May/June 1950. 421 En814
- 22656 MIELKE, J. L. Rate of deterioration of beetle-killed Engelmann spruce. J. Forestry 48:882-888. Ref. Dec. 1950. 99.8 F768  
*Dendroctonus engelmanni* damage to *Picea engelmanni*.
- 22657 MÜHLOW, J., and SCHWAN, B. Use hexachloride containing plants against rape weevils [*Ceutorhynchus*] in spring rape. (In Swedish.) Sweden. Stat. Värkskyddsanst. Värkskyddsnotiser 1950:32. May 1950. 464.9 Sw3V
- 22658 NAGASAWA, S. On the lethal effect of the powder of silicon carbide to the adult of the azuki bean weevil [*Callosobruchus chinensis* L.], with special reference to the relation between the lethal effect and the particle size. (Preliminary report). Studies on the lethal effect of so-called "inert" pulverized dusts to insects. II. (In Japanese.) Botyu-Kagaku 15:79-85. Ref. June 1950. 421 B65  
English summary.
- 22659 NIJVELDT, W. A mass flight of *Bledius tricornis* Herbst (Col.). (In Dutch.) Ent. Ber. 13:156. Oct. 1950. 420 N38B
- 22660 NOLTE, H. W. Beobachtungen über den luzerneblattnager [*Phytomomus variabilis*]. Anz. f. Schädlingsk. 23:150-152. Oct. 1950. 421 An9
- 22661 PADIĆ, N. N. In regard to control measures for the acorn weevil. (In Russian.) Lesn. Khoz. 3(6):60. June 1950. 99.8 L5622
- 22662 PARKS, T. H. Potato tuber injury by flea beetle [*Epitrix cucumeris*] larvae. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:130-135. 1950. 75.9 Oh3
- 22663 PESCHAUT, R. Erfahrungen bei der engerling [*Melolontha*] und drahtwurmbekämpfung. Allg. Forstztg. 61:195-196. Dec. 1950. 99.8 AL53
- 22664 PIC, M. Malachides exotiques nouveaux (Col.). Ann. & Mag. Nat. Hist. (ser. 12) 3:997-998. Nov. 1950. 410 An77  
New species in *Ebaeus*.
- 22665 PIC, M. Nouveaux *Dasytides* (Coléoptères) de l'Afrique australe. Ann. & Mag. Nat. Hist. (ser. 12) 3:998-1000. Nov. 1950. 410 An77  
New species in *Pagurodactylus*.
- 22666 PIC, M. Sur quelques *Macroisiagon* Hentz américains (Col. Rhipiphoridae). Soc. Ent. de France. B. 55:94-96. 1950. 420 F84B
- 22667 EL PICUDO del algodón [*Anthonomus grandis*]. Campo [Tacuba] (ser. 2) 18(703):79-80. Sept. 30, 1950. 8 C157
- 22668 PIQUEMAL, A. La lutte contre *Coelaenomenodera* sp., insecte du palmier à huile à la station principale de La Mé (Côte d'Ivoire). Oléagineux 5:710-711. Dec. 1950. 77.8 OL2
- 22669 PRISTAZHNĬK, A. A. Use of benzene hexachloride for the control of cockchafer [*Melolontha*] larvae. (In Russian.) Agrobiologiya 1950(5):141-142. Sept./Oct. 1950. 20 Ag822  
In forest nurseries and in shelterbelt plantings.
- 22670 RATKOVICH, M. Forma de combatir el gorgojo del tomate [*Phyrenus muriceus*]. Agr. Venezol. 15(145):11-12. Aug. 1950. 9.95 Ag8
- 22671 REGNIER, R. Comment on détruit les vers blancs [*Melolontha melolontha*]; utilisation des produits organiques de synthèse: l'hexachlorocyclohexane (H.C.H.) et son dérivé sulfuré, le sulfure de polychlorocyclane (S.P.C.). Agr. Prat. 114:499-502. Nov. 1950. 14 J82
- 22672 RUZAEV, K. S., and GRUDINSKAIA, Z. N. Use of benzene hexachloride for the control of cockchafer [*Melolontha*] larvae. (In Russian.) Sad i Ogorod 1950(9):73. Sept. 1950. 80 Sa13  
In vineyards.
- 22673 SCHEDL, K. E. Fauna aethiopica IV. 106. contribution to the morphology and taxonomy of the Scolytoidea. Rev. Franç. d'Ent. 17:210-216. 1950. 421 R323  
Includes new species in *Trypographus* n.g., *Platypus*, and *Dolopogon*.
- 22674 SCHÖNE, H. Die regulation der fehlbewegungen einseitig geblendeter *Dytiscus*larven. Z. f. Naturf. 5b:383-386. Oct./Nov. 1950. 474 Z3
- 22675 SHAPIRO, D. S., and TREML, A. G. Injurious species of flea beetles under conditions of shelterbelts. (In Russian.) Zool. Zhur. 29:399-405. Sept./Oct. 1950. 410 R92



- 22676 SPEYER, W. Vorschläge zur bekämpfung des pferdebohnenkäfers (*Bruchus rufimanus*). Nachrbl. des Deut. Pflanzenschutzdienstes 2:1-2. Jan.1950. 442.9 B832
- 22677 TAYLOR, K. L. Borer damage in packing cases and pallets. N. S. Wales. Forestry Comm. Div. Wood Technol. Tech. Notes 4(10/12):5-6. Aug.1950. 99.9 N472T  
Chiefly *Lyctus*.
- 22678 THÉODORIDÈS, J. Remarques sur l'allo-trophie chez des Carabiques et d'autres Coléoptères. Entomologiste 6:79-83. Ref. May/June 1950. 421 En814
- 22679 TIPPMANN, F. F. Neue und merkwürdige "fundorte" von meist neuen Insekten. Wien. Ent. Gesell. Z. 34:154-157. Dec.31,1949. 421 Os7  
Discovery of *Cordylochernes* and mites parasitic on *Acrocinus longimanus* suggests careful examination of insect specimens for new parasitic forms.
- 22680 TROUVELOT, B., and GRISON, P. Le danger doryphorique au printemps 1950. Acad. d'Agr. de France Compt. Rend. 36:531-534. July 5, 1950. 14 P215Bc
- 22681 TROUVELOT, B., LE BERRE, J. R., and PORTIER, G. Les particularités de l'évolution et de l'invasion doryphorique près des côtes de la Manche en 1950. Acad. d'Agr. de France. Compt. Rend. 36:534-536. July 5, 1950. 14 P215Bc
- 22682 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Japanese beetle (*Popillia japonica* Newman). U. S. D. A. Picture Sheet 4, rev., 2 p. Oct.1950. 1 En86P
- 22683 VAURIE, P. A western race of *Languria mozdardi* (Coleoptera: Languriidae). Pan-Pacific Ent. 26: 191-192. Oct.1950. 421 P193
- 22684 VOLOKOV, A. N., and CHUDINOVA, A. N. Development of chemical measures for the control of the bean weevil under storage conditions. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(9):36-41. 1950. 20 Ak1  
*Acanthoscelides obtectus*.
- 22685 VORONTSOV, A. I. Hide beetles [Dermestidae] as destroyers of the gypsy moth [*Porthetria dispar*]. (In Russian.) Zool. Zhur. 29:406-416. Ref. Sept./Oct.1950. 410 R92
- 22686 WAHLIN, B. The clover tip weevil [*Apon apricans*] and the clover seed. (In Swedish.) Sweden. Stat. Växtskyddsanst. Växtskyddsnotiser 1950:4-5. Mar. 1950. 464.9 Sw3V
- 22687 WALLENFELS. Zur borkenkäferbekämpfung mit salzwasser. Allg. Forstz. 5:369. Aug.30,1950. 99.8 AL52
- 22688 WALTHER, R. Bekämpfung von *Tropinota hirta* mit E 605 forte. Höfchen-Briefe f. Wiss. u. Praxis 3(4):3-5. 1950. 464.8 H67  
English summary.
- 22689 WATANABE, S. Interaction between a host [*Callosobruchus chinensis*] and its parasite [*Neocatolacus mamezophagus*]. (In Japanese.) Botyu-Kagaku 15:73-79. June 1950. 421 B65  
English summary.
- 22690 WELTE, E. Der birnprachtkäfer [*Agrilus sinuatus*] und seine bekämpfung. Bad. Landwirt. Wchnbl. 117:814. Nov.25,1950. 18 B142
- 22691 WILLIAMS, C. B. From an entomologist's notebook. 2. Ladybirds [Coccinellidae]. Countryman [Burford] 42:377-379. Winter 1950. 281.28 C832
- 22692 YOUNG, F. N. Two new species of *Bidessus* from the *Apalachicola* flatwoods of Florida (Coleoptera, Dytiscidae). Mich. U. Mus. Zool. Occas. Papers 526, 6 p. June 13, 1950. 410 M582
- 22693 ALEXANDER, C. P. New or little-known Tipulidae (Diptera). LXXXVIII. Oriental-Australasian species. Ann. & Mag. Nat. Hist. (ser.12)3:935-959. Nov. 1950. 410 An77  
New species in *Plusiomyia*, *Macromastix*, *Nephrotoma*, *Limonia*, *Teucholabis*, *Gonomyia*, *Erioptera*, *Amphineurus*, *Molophilus*, and *Toxorhina*.
- 22694 ALEXANDER, C. P. Undescribed species of Japanese crane-flies (Diptera: Tipulidae). Ent. Soc. Amer. Ann. 43:418-436. Sept.1950. 420 En82  
New species in *Tipula*, *Dicranota*, *Paradelphomyia*, *Archilimnophila*, *Limnophila*, *Lipsothrix*, *Gnophomyia*, *Ormosia*, and *Molophilus*.
- 22695 ARNAUD, P. H. Record of the genus *Proctotharostia* in North America (Diptera: Tachinidae or Larvaevoridae). Pan-Pacific Ent. 26:190. Oct.1950. 421 P193
- 22696 AUERBACH, C., and MOSER, H. Production of mutations by monochloro-'mustards'. Nature [London] 166:1019-1020. Ref. Dec.16,1950. 472 N21  
*Drosophila melanogaster*.
- 22697 BARROS, R. DE. A new species of the genus "Drosophila", with discussion about speciation in the "mercatorum", sub-group. Rev. Bras. de Biol. 10:265-278. Ref. Sept.1950. 442.8 R326
- 22698 BERG, C. O. *Hydrellia* (Ephydriidae) and some other acalyptate Diptera reared from *Potamogeton*. Ent. Soc. Amer. Ann. 43:374-398. Ref. Sept.1950. 420 En82
- 22699 BONNIER, G., and LÜNING, K. G. X-ray induced dominant lethals in *Drosophila melanogaster*. Hereditas 36:445-456. 1950. 442.8 H42
- 22700 CHADDOCK, T. T. Beware of the screw fly [*Wohlfahrtia vigil*] in mink. Black Fox Mag. & Mod. Mink Breeder 34(8):26,33-35. Dec.1950. 410 R56
- 22701 CHEN, T. C., and SUMERFORD, W. T. Some esters of 2-trichloro-1-(p-chlorophenyl)-ethanol as potential insecticides. Amer. Chem. Soc. J. 72:5124-5125. Nov.1950. 381 Am33J  
Tested against *Anopheles quadrimaculatus* larvae and *Musca domestica*.
- 22702 CRISTI, G. A., and LANDRO, O. A. DI. Oestrosis en *Canis familiaris*; primera constatación en el Uruguay. U. de la Repúb. Facul. de Vet. An. 5:231. 1948/49. 41.9 M764  
Due to *Dermatobia cyaniventris* (=hominis).
- 22703 EICHLER, W. Dasselarven [*Hypoderma* spp.] beim pferde. Monatsh. f. Prakt. Tierheilk. 2:244-248. 1950. 41.8 M74
- 22704 ENZIE, F. D., and MCINTOSH, A. Length of the pupal period of *Cuterebra buccata* (F.). (Abs.) J. Parasitol. 36(6,sect.2):46. Dec.1950. 448.8 J824
- 22705 FAIRCHILD, G. B., and TRAPIDO, H. The West Indian species of *Phlebotomus* (Dipt. Psychodidae). Ent. Soc. Amer. Ann. 43:405-417. Sept.1950. 420 En82
- 22706 FALDI, G., and others. *Dacus oleae* control tests with Caffaro chlorinated hydrocarbon insecticides in 1949. (In Italian.) Not. sulle Mal. delle Piante 11,74 p. July/Aug.1950. 464.8 N48  
P. Fontana, R. Radoni, and A. Rossi, joint authors.
- 22707 FISHER, R. S., and MORRISON, F. O. Methods of rearing and sexing (*Musca domestica* L.) Ent. Soc. Ontario. Annu. Rpt. (1949)80:41-45. 1950. 420 On8
- 22708 FLOCH, H., and ABONNENC, E. *Ceratopogonides* nouveaux du Venezuela: *Culicoides lichyi* n. sp. et *Lasiohelea danaisi* n. sp. B. de Ent. Venezol. 8:69-75. Dec.31,1949, pub. June 15, 1950. 421 B63
- 22709 FLOCH, H., and ABONNENC, E. *Phlébotomes* [*Flebotomus*] du Venezuela. II. B. de Ent. Venezol. 8:77-101. Ref. Dec.31,1949, pub. June 15, 1950. 421 B63
- 22710 GIBSON, C. L. The early developmental stages of *Onchocerca volvulus* in Guatemalan species of *Simulium*. (Abs.) J. Parasitol. 36(6,sect.2):29. Dec. 1950. 448.8 J824
- 22711 GLASS, B., and PLAINE, H. L. The immediate dependence of the action of a specific gene in *Drosophila melanogaster* upon fertilization. Natl. Acad. Sci. Proc. 36:627-634. Ref. Nov.1950. 500 N21P
- 22712 GRUNIN, K. I. A. Botflies from the antelope (*Procarpa gutturosa* Gmel.) from Mongolian People's Republic. (In Russian.) Akad. Nauk SSSR. Dok. 73:861-864. Aug.1,1950. 511 P444A  
*Pharyngomyia dzerenae* and *Przhevalskiana aenigmatica* n. spp.
- 22713 HARDY, G. H. Capturing an elusive robberfly [*Neoratus hercules*] (Dipt., Asilidae). Ent. Mon. Mag. 86:345-346. Dec.1950. 421 En86
- 22714 HARDY, G. H. The twisting segments in Diptera. Ent. Mon. Mag. 86:346-347. Dec.1950. 421 En86
- 22715 HARTUNG, E. W. The inheritance of a tumor in *Drosophila melanogaster*. J. Hered. 41:269-272. Ref. Oct.1950. 442.8 Am3
- 22716 HASSETT, C. C., DETHIER, V. G., and GANS, J. A comparison of nutritive values and taste thresholds of carbohydrates for the blowfly [*Phormia regina*]. Biol. B. 99:446-453. Ref. Dec.1950. 442.8 B52

## DIPTERA



- 22717 HENNIG, W. Entomologische beobachtungen an kleinen wirbeltierleichen. Z. f. Hyg. u. Schädlingsbekämpfung. 38:33-88. Ref. Feb./Mar.1950. 449.8 Z36  
Study of the insects, chiefly Diptera, breeding in carcasses of rabbits, guinea pigs, etc.
- 22718 HOCKING, B. Further tests of insecticides against black flies (Diptera: Simuliidae) and a control procedure. Sci. Agr. 30:489-508. Ref. Dec.1950. 7 Sci2
- 22719 HOLMBERG, J. On the cattle grub pest [Hypoderma] and the national economic losses from them. (In Swedish.) Forsk.-och Försöksresultat 2:44-46. Sept.30,1950. 20 F77  
Finland.
- 22720 HOYT, C. On a peculiar morphological development in the Psychodidae (Insecta:Diptera). Microentomology 15:140-146. Oct.20,1950. 421 M58  
So-called "scent organs".
- 22721 HUYSMANS, G. L. Piscicultura; la alimentacion en los criaderos. Chacra 21(241):60. Dec.1950. 9 C34  
Rearing *Musca domestica* and *Calliphora vomitoria* as fish food.
- 22722 IKEDA, Y. Standardization of vermicides. (In Japanese.) Botyu-Kagaku 15:71-72. June 1950. 421 B65  
Tests of larvicides with *Musca vicina* larvae.  
English summary.
- 22723 JAMES, M. T. The genus *Scopeuma* in the western United States and southwestern Canada (Diptera, Scopeumatidae). Ent. Soc. Amer. Ann. 43:343-353. Sept. 1950. 420 En82
- 22724 KLEINE, F. K. Die bekämpfung der tsetsefliege [Glossina] in Afrika. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:173-175. Sept.1950. 41.8 B45
- 22725 KRIVSHENKO, J. D. The structure of the heterochromatic part of the Y-chromosome in *Drosophila buscki*. Natl. Acad. Sci. Proc. 36:703-707. Ref. Dec.1950. 500 N21P
- 22726 LANE, J., and COHER, E. I. The genus "Schnusea" Edwards, 1933 (Diptera, Mycetophilidae, Sciophilinae). Rev. Bras. de Biol. 10:279-283. Sept.1950. 442.8 R326
- 22727 LANE, J. Sinonimias en *Culicoides guttatus* (Coquillett, 1904). B. de Ent. Venezol. 8:115-117. Dec.31, 1949, pub. June 15, 1950. 421 B63
- 22728 LAURENCE, B. R. Syrphidae (Diptera) in Bedfordshire. Ent. Mon. Mag. 86:351-353. Dec.1950. 421 En86
- 22729 LIVINGSTON, A. M. Controlling filter flies. Pub. Works 82:39,70-71. Jan.1951. 290.8 M922  
Psychoda.
- 22730 LOPES, H. DE S. New Neotropical species of *Notochaeta* Aldrich and *Dexosarcophaga* Townsend (Diptera, Sarcophagidae). (In Portuguese.) Rev. Bras. de Biol. 10:353-364. Sept.1950. 442.8 R326
- 22731 MATHUR, R. N. The puparia of some Indian Tachinidae (Diptera). III. Indian Forest Rec. New Ser. Ent. 8:1-6. 1949, pub.1950. 99.8 In22E
- 22732 MEIJERE, J. C. H. DE. Eighth supplement to the New Register of Netherlands Diptera of 1898 (Second supplement to my Register of 1939). (In Dutch.) Tijdschr. v. Ent. (1949)92:1-14. Ref. 1950. 421 T21
- 22733 MEIJERE, J. C. H. DE. Die larven der Agromyziden; neunter nachtrag. I. Europäische Agromyziden. II. Minierende Dipterenlarven von Niederlandisch-Ostindien. Tijdschr. v. Ent. (1949)92:15-33. 1950. 421 T21
- 22734 MELANDER, A. L. Taxonomic notes on some smaller Bombyliidae (Diptera). Pan-Pacific Ent. 26:145-156. (Cont.) Oct.1950. 421 P193  
Includes new species in *Glabellula*, *Apystomyia* n.g., *Caenotus*, *Heterotropus*, *Exepacmus*, and *Paracosmus*.
- 22735 MIEGROET, M. VAN. Contribution to the study of the biology, the ecology and the economical importance of *Hylemyia coarctata* Fall. (In Dutch.) Gent. Landbouwhoges. Meded. 15:270-303. Apr.1950. 105.1 G344  
English summary.
- 22736 MINATTA, M. J. "Mosca de las frutas," *Ceratitis capitata* (Wiedmann), su biología y control. IDIA; Inform. de Invest. Agr. 3(33/34):32-33. Sept./Oct. 1950. 9 Id3
- 22737 NEW SOUTH WALES DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Fruit flies (*Dacus* (*Strumeta*) *tryoni*). Agr. Gaz. N. S. Wales 61:522-524. Oct.2, 1950. 23 N472
- 22738 NEW SOUTH WALES DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Seedling maggot (*Hylemyia* sp.). Agr. Gaz. N. S. Wales 61:525. Oct.2,1950. 23 N472
- 22739 NICHOLSON, H. P., and MICKEL, C. E. The black flies of Minnesota (Simuliidae). Minn. Agr. Expt. Sta. Tech. B. 192,64 p. Ref. Aug.1950. 100 M66
- 22740 OVCHINNIKOVA, L. M. A complex of measures for the control of the carrot fly [*Chamaepsila* (i.e. *Psila*) *rosae*] in connection with its ecological peculiarities. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. Im. K. A. Timiriazeva. Dok. 11:251-254. 1949. 20 M857
- 22741 PIGULEVSKIĬ, S. V. Ways and methods of botfly [*Gasterophilus intestinalis*] larvae penetration into the skin of man. (In Russian.) Priroda 39(8):74-76. Ref. Aug.1950. 410 P933
- 22742 QUARTERMAN, K. D. The status of fly resistance to insecticides in the Savannah area and its implications in the general problem of fly control. CDC Bulletin 9(11):3-7. Nov.1950. 151.65 C12  
*Musca domestica* resistance to DDT.
- 22743 REHN, J. W. H. Supplement to Notes on some aquatic insects of the Brandywine Creek drainage, Chester County, Pennsylvania. Ent. News [Philadelphia] 61:203. Dec.1950. 421 En88  
Identity of some Tendipedidae reared from immature forms.
- 22744 RIEMSCHNEIDER, R., and ROHRMANN, B. Über die zucht DFDT-resistenter *Drosophila melanogaster* M. Anz. f. Schädlingsk. 23:148-149. Oct.1950. 421 An9
- 22745 RIVEROS, J. E. Observaciones sobre la mosca de la fruta [*Ceratitis capitata*]. Chacra 21(241):36-37. Dec.1950. 9 C34  
In Argentina.
- 22746 RYAN, F. E. Trials with new insecticides in fruit fly [*Ceratitis capitata*] control. West. Austral. Dept. Agr. J. (ser.2)27:226-238. June 1950. 23 W52J
- 22747 SANDVED, P. The red bud borer [*Thomasiana oculiperda* Rübs.] a pest in our nurseries. (In Norwegian.) Gartneryrket 40:827-828. Dec.2,1950. 80 G1938
- 22748 SBARRA, N. H. Un enemigo peligroso. Chacra 21(241):92-93. Dec.1950. 9 C34  
*Musca domestica*.
- 22749 SHAH, M. I., BATRA, H. N., and RENJHEN, P. L. Notes on the biology of *Dacus* (*Strumeta*) *ferrugineus* Fabr. and other fruit flies in the North-West Frontier Province. Indian J. Ent. 10:249-266. Dec.1948, pub. Oct.1950. 420 In23
- 22750 SHAW, F. R. Epidemic and disaster aid. CDC Bulletin 9(11):28-34. Nov.1950. 151.65 C12  
Includes fly and mosquito control following Texas City disaster.
- 22751 SHEWELL, G. E. A new species of *Sarcophaga* reared from the Columbian ground squirrel (Diptera: Sarcophagidae). Canad. Ent. 82:245-246. Dec.1950. 421 C16  
*S. citellivora*.
- 22752 SKAPTASON, J. S. Effect of horn flies [*Siphona irritans*] on prairie cattle. Ent. Soc. Ontario. Annu. Rpt. (1949)80:46-50. 1950. 420 On8
- 22753 SPENCER, W. T. Cattle grubs [*Hypoderma*] cost millions yearly. West. Live Stock 36(5):70-71. Dec. 1950. 49 W523  
Damage to hides and meat.
- 22754 STERNBURG, J., and KEARNS, C. W. Degradation of DDT by resistant and susceptible strains of house flies. Ent. Soc. Amer. Ann. 43:444-458. Sept.1950. 420 En82
- 22755 SYLVÉN, E. An experiment on the control of the pod gall midge [*Dasyneura brassicae*]. (In Swedish.) Sweden. Stat. Växtskyddsanst. Växtskyddsnotiser 1950:23-26. May 1950. 464.8 Sw3V  
Rape pest.
- 22756 SYLVÉN, E. Om rapsens reaktion för skid-förlust under senare delen av och strax efter skidsättningen. Ett bidrag till kännedomen om skidgallmyggans (*Dasyneura brassicae* Winn.) betydelse som skadedjur. [Of the reaction of rape to loss of pods during the latter part of the pod formation stage and during the period immediately following. A contribution to the knowledge of the bladder pod midge (*Dasyneura brassicae* Winn.) as a pest]. Sweden. Statens Växtskyddsanst. Meddel. 56,31 p. 1950. 464.9 Sw3M  
English summary.



- 22757 TISON, F. Transmission de la tuberculose par les mouches. Inst. Pasteur Ann. 79:454. Oct.1950. 448.3 An75
- 22758 TOLEDO, A. A. DE. Control of Dermatobia hominis and fly larvae with BHC (benzene hexachloride). (In Portuguese.) Biológico 16:133-136. July 1950. 442.8 B529
- 22759 TOWNES, H. A [tobacco] pest that's a push-over. Res. & Farming [N. C. Sta.] 9(2):6. Autumn 1950. 100 N81R
- Control of midge larvae (*Smittia aterrimus*) with DDT.
- 22760 VERGANI, A. R. Ceratitis capitata (Wied.), "mosca del Mediterráneo." IDIA; Inform. de Invest. Agr. 3(33/34):33-34. Sept./Oct.1950. 9 Id3
- 22761 VICINI, L. Control of the cherry fly, *Rhagoletis cerasi*. (In Italian.) Terra e Sole 97:299-300. Sept. 1950. 16 T273
- 22762 WADDINGTON, C. H. The biological foundations of measurements of growth and form. Roy. Soc. London. Proc. Ser. B 137:509-515. Nov.28,1950. 501 L84B
- Based on *Drosophila*.
- 22763 WALLACE, B. Allelism of second chromosome lethals in *D[rosophila] melanogaster*. Natl. Acad. Sci. Proc. 36:654-657. Nov.1950. 500 N21P
- 22764 WATERHOUSE, D. F., and SCOTT, M. T. Insectary tests with insecticides to protect sheep against body strike. Austral. J. Agr. Res. 1:440-455. Ref. Oct. 1950. 23 Au783
- Lucilia cuprina*.
- 22765 WHITTINGHILL, M. An investigation of changes in gene linkage values by the use of gamma rays. (Abs.) Elisha Mitchell Sci. Soc. J. 66:121-122. Dec.1950. 500 EL4
- Drosophila* as example.
- Culicidae
- 22766 ANDUZE, P. J., and CAPDEVIELLE, A. *Anopheles* (*Anopheles*) *guarao* sp. nov. B. de Ent. Venezol. 8:119-124. Dec.31,1949, pub. June 15,1950. 421 B63
- 22767 BERTRAM, D. M. A critical evaluation of DDT and 'gammexane' in malaria control in Upper Assam over five years, with particular reference to their effect on *Anopheles minimus*. Ann. Trop. Med. & Parasitol. 44:242-254. Oct.1950. 448.9 L75A
- 22768 BERTRAM, D. M. Larvicidal treatments with DDT and 'gammexane' in Upper Assam, with particular reference to their effect on *Anopheles minimus*. Ann. Trop. Med. & Parasitol. 44:255-259. Oct.1950. 448.9 L75A
- 22769 BLACK, R. H. Anophelism without malaria in Northern Australia: a malaria survey of part of the Northern Territory and the East Kimberleys District. Ann. Trop. Med. & Parasitol. 44:207-211. Oct.1950. 448.9 L75A
- 22770 BOHART, R. M. A new species of Orthopodomyia from California (Diptera, Culicidae). Ent. Soc. Amer. Ann. 43:399-404. Sept.1950. 420 En82
- 22771 BROOKMAN, B., and REEVES, W. C. A new name for a California mosquito (Diptera, Culicidae). Pan-Pacific Ent. 26:159-160. Oct.1950. 421 P193
- Culex boharti* for *C. reevesi* Bohart, not Wirth.
- 22772 DOWNS, W. G., CELIS, H., and GAHAN, J. B. Control of *Anopheles pseudopunctipennis* in Mexico with DDT residual sprays applied in buildings. III. Malariological observations after five years of annual spraying. Amer. J. Hyg. 52:348-352. Nov.1950. 449.8 Am3
- 22773 FLOCH, H. Cayenne sans moustiques et bientôt la Guyane sans paludisme. Marchés Colon. 6:2682-2683. Nov-11,1950. 286.8 M33
- 22774 HADDOW, A. J., and VAN SOMEREN, E. C. C. A new species of *Stegomyia* Theobald from the Ruwenzori Range, Uganda. Ann. Trop. Med. & Parasitol. 44:281-284. Oct.1950. 448.9 L75A
- Aedes ruwenzori*.
- 22775 HADDOW, A. J. A note on the occurrence of *Aedes* (*Stegomyia*) *simpsoni* Theobald in the canopy of rain-forest in Bwamba County, Uganda. Ann. Trop. Med. & Parasitol. 44:238-241. Ref. Oct.1950. 448.9 L75A
- 22776 MCARTHUR, J. Malaria and its vectors in Borneo. A study of Borneo's greatest disease problem, and of the mosquitoes responsible for its transmission, throughout North Borneo and Labuan, Sarawak, Brunei and Dutch Borneo, to the end of the first half of the twentieth century. Indian J. Malariol. 4:1-90. Ref. Mar.1950. 448.8 In24
- Anopheles* identification records, p.16-19, and appendix IV, p. 63-69.
- 22777 PETROCCHI, A. Malaria control in Sardinia. (In Italian.) Assoc. Naz. delle Bonifiche. Irrig. e Miglioramenti Fondiari. B. Mens. 4:123-124. Sept./Oct. 1950. 55.9 As72
- Anopheles* control.
- 22778 RAPSCH, I. Microsporidien in larven der culiciden-gattung *Chaoborus* Lichtenstein. Z. f. Parasitenk. 14:426-431. 1950. 442.8 Z33F
- 22779 REDMOND, W. B. The mosquito transmission of the 1P strain of *Plasmodium relictum* to pigeons. (Abs.) J. Parasitol. 36(6,sect.2):23. Dec.1950. 448.8 J824
- 22780 SCHILDMACHER, H. Darmkanal und verdauung bei stechmückenlarven. Biol. Zentbl. 69:390-438. Ref. 1950. 442.8 B523
- 22781 SILVETTI PEÑA, L., and LÓPEZ MANÁN, C. E. Análisis económico del saneamiento antipalúdico con imogacidas de acción residual. Ofic. Sanit. Panamer. B. 29:1257-1266. Dec.1950. 449.9 P192B
- Mosquito control.
- 22782 SUBRAMANIAN, R., and SEN GUPTA, R. K. Malaria transmission in former Udaipur State, Central Provinces. Indian J. Malariol. 4:91-96. Mar.1950. 448.8 In24
- Vectors are *Anopheles culicifacies*, *A. pallidus*, and *A. fluviatilis*.
- 22783 THURMAN, E. B., and JOHNSON, P. T. The taxonomic characters of the larvae of the genus *Culiseta* Felt, 1904 in California (Diptera, Culicidae). Pan-Pacific Ent. 26:179-187. Oct.1950. 421 P193
- 22784 WEIDNER, H. Die malariamückenbrutplätze Nordgriechenlands und ihre sanierung. Z. f. Angew. Ent. 32:86-133. Ref. Aug.1950. 421 Z36
- Vectors are *Anopheles maculipennis*, *A. sacharovi*, *A. superpictus*, and *A. claviger*.
- 22785 WORLD HEALTH ORGANIZATION. Yellow-fever panel; report on the first session, Geneva, 1-6 December 1949. World Health Organ. Tech. Rpt. Ser. 19, 9 p. Aug.1950. 449.9 W892T
- Includes delineation of endemic areas, based on presence of *Aedes aegypti*.
- HEMIPTERA (HETEROPTERA AND HOMOPTERA)
- 22786 BALACHOWSKY, A. Sur deux Tachardina Ckll. (Coccoidea-Lacciferinae) nouveaux du Sahara central. Eos 26:7-17. Jan./June 1950. 421 Eo7
- 22787 BALDUF, W. V. Utilization of food by *Sinea diadema* (Fabr.) (Reduviidae, Hemiptera). Ent. Soc. Amer. Ann. 43:354-360. Ref. Sept.1950. 420 En82
- 22788 BATCHELOR, G. S., and BREAKEY, E. P. Comparative tests of organic phosphate insecticides for the control of aphids [*Phorodon humuli*] and spider mites [*Tetranychus* sp.] on hops. Hopper 7(8):5-6. Nov.1950. 70.8 H77
- 22789 BATTAGLIA, E. On the terminology of the meiotic processes. 2nd contribution: Meiosis in the coccids (Coccidae-Homoptera). (In Italian.) Caryologia 3:47-71. 1950. 442.8 C25
- English summary.
- 22790 BLATTNY, C., OSVALD, C. V., and FRANĚK, E. Ascertaining the lesions caused by aphids on the hop heads with a special regard to the year 1948. (In Czech.) Českoslov. Akad. Zemedel. Vest. 24:446-452. Oct.1950. 19.5 C332
- 22791 BONNEMAISON, L. Observations biologiques sur le puceron gris du pêcher (*Myzus persicae* Sulz.) et le puceron noir (*Aphis fabae* Scop.) en relation avec la transmission des maladies à virus de la pomme de terre et de la betterave. Acad. d'Agr. de France. Compt. Rend. 36:525-527. July 5,1950. 14 P215Bc
- 22792 CALDWELL, J. S. Three new Antillean Fulgoroidea, with distributional notes on a few others (Homoptera). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1460, 4 p. June 6,1950. 500 N483N
- New species in Bothriocera and Cubanella.
- 22793 CHADA, H. L., WOOD, E. A., JR., and RHERD, P. T. Distribution and host plants of the Rhodes-grass scale [*Antonina graminis*] in the United States in 1950. U. S. Bur. Ent. & Plant Quar. Insect Pest Survey. Spec. Sup. 1950(5), 4 p. Dec.7,1950. 1.9 En831B
- 22794 COSTA, R. G., and REDAELLI, D. C. Cochoilhas ou coccídeos do Rio Grande do Sul [Scale insects or coccids of Rio Grande do Sul]. Rio Grande do Sul. Sec. de Estado dos Negócios da Agr., Indús. e Com. [B.] 152, 107 p. Ref. 1949. 9.2 R473
- Coccoidea.



- 22795 COSTANTINO, G. Control measures for the variegated leafhopper (*Thamnotettix fuscovenosus* Ferr.). (In Italian.) *Olivicoltura* 5(9):3. Sept.1950. 80 OL42
- 22796 DRAKE, C. J., and HOTTES, F. C. Three new species of Saldidae (Hemiptera). *Biol. Soc. Wash. Proc.* 63:177-184. Dec.29,1950. 500 W272  
New species in Saldula.
- 22797 DUEWELL, H., and others. Colouring matters of the Aphididae. IV. A general survey of the occurrence of the aphins. *Chem. Soc. J.* 1950:3304-3309. Nov.1950. 382 L84J  
J. P. E. Human, A. W. Johnson, S. F. MacDonald, and A. R. Todd, joint authors.
- 22798 EVERETT, P. Control of soft wax scale [*Ceroplastes destructor*] on citrus trees. *New Zeal. J. Agr.* 81:344. Oct.1950. 23 N48J
- 22799 GRANDORI, R. Hibernating stages of *Aspidiotus perniciosus* Comst. (In Italian.) *B. di Zool. Agr. e Bachicoltura*. 16:29-35. 1950. 423.92 B63  
Control.
- 22800 GRANDORI, R. New experiments against *Aspidiotus perniciosus* and *Carpocapsa pomonella* using Gesafid. (In Italian.) *B. di Zool. Agr. e Bachicoltura*. 16:85-90. 1950. 423.92 B63  
DDT preparation.
- 22801 INDIAN LAC RESEARCH INSTITUTE. Annual report for the financial year 1947-48. *Namkum*, 1949. 40 p. 423.92 In23A
- 22802 IVANOVA, S. I. Saltwort [*Salsola kali*]-host plant of the beet bug [*Poeciloscyltus cognatus*]. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(11):31-33. 1950. 20 Ak1
- 22803 JENKINS, C. F. H., FORTE, P. N., and RYAN, F. E. The apple leafhopper (*Typhlocyba froggatti* Baker) and its control at Donnybrook, Western Australia. *West. Austral. Dept. Agr. J.* (ser.2)27:209-226. June 1950. 23 W52J
- 22804 KENNEDY, J. S., IBBOTSON, A., and BOOTH, C. O. The distribution of aphid infestation in relation to leaf age. I-II. *Ann. Appl. Biol.* 37:651-696. Dec.1950. 442.8 An72  
I. *Myzus persicae* (Sulz.) and *Aphis fabae* Scop. on spindle trees and sugar-beet plants, p. 651-679; II. The progress of *Aphis fabae* Scop. infestations on sugar beet in pots, by A. Ibbotson and J. S. Kennedy, p. 680-696.
- 22805 KNOPPIEN, P., and MELTZER, J. Control of woolly aphid [*Eriosoma lanigerum*] by application of insecticides containing BHC. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13:766-770. Oct.1950. 86 N384  
English summary.
- 22806 KORMILEV, N. A. Notes on neotropical "Pentatomidae", with description of one new genus and two new species (Hemiptera). *Rev. Bras. de Biol.* 10:339-346. Sept.1950. 442.8 R326  
New species in *Ramosiana* n.g. and *Adoxoplatus*.
- 22807 KRAUSE, G. Erkennung der San-José-schildläuse [*Aspidiotus perniciosus*] und anderer deckelschildläuse auf einheimischem und importiertem obst. *Z. f. Pflanzenbau u. Pflanzenschutz. Sonderh.* 1,36 p. Ref. June 1950. 464.8 Z32  
Germany.
- 22808 LAL, R. Biological observations on *Creontia* *pallidifera* Walker (*Megacoelum stramineum* Walker), with notes on various insect pests found on potato at Delhi. *Indian J. Ent.* 10:267-278. Dec.1948, pub. Oct.1950. 420 In23
- 22809 LA RIVERS, I. A new naucorid genus [*Usingina*] and species from Nevada (Hemiptera). *Ent. Soc. Amer. Ann.* 43:368-373. Sept.1950. 420 En82
- 22810 LEACH, R. Ant warfare in the Pacific; effect of ecological change on coconut pest. *Mother Earth* 4(3):30-32. Summer 1950. 56.8 M85  
Control of *Amblypelta cocophaga* by *Oecophylla smaragdina* subnitida.
- 22811 LOBSTEIN, J. Possibilité nouvelle de traitement chimique des cochenilles farineuses (*Pseudococcinés*). *Terre Marocaine* 24:406-409. Oct.1950. 24 T44
- 22812 MAHDHASSAN, S. The Mysore lac insect [*Lakshadia mysorensis*]. *Bombay Nat. Hist. Soc. J.* 49:197-200. Aug.1950. 513 B63
- 22813 MALTAIS, J. B. New developments in breeding of peas for resistance to the pea aphid [*Macrosiphum pisi*] (Homoptera: Aphididae). *Ent. Soc. Ontario Annu. Rpt.* (1949)80:29-30. 1950. 420 On8
- 22814 MENDES, L. O. T. Cytological observations on *Dysdercus*. Chromosome chains in the somatic tissue of *Dysdercus mendesi* Bloete (Hemiptera-Pyrrhocoridae). (In Portuguese.) *Bragantia* 9:53-57. Jan./Apr.1949. 102.5 B73Tb  
English summary.
- 22815 MINATTA, M. J. *Cochinilla roja australiana* *Aonidiella aurantii* (Maskell), su biología y control. *IDIA; Inform. de Invest. Agr.* 3(33/34):31-32. Sept./Oct.1950. 9 Id3
- 22816 MOERICKE, V. Wo entstehen gynoparen und männchen der pfirsichblattlaus (*Myzodes* [i.e. *Myzus*] *persicae* Sulz.)? *Nachrb. des Deut. Pflanzenschutzdienstes* 2:99-102. Ref. July 1950. 442.9 B832
- 22817 NEISWANDER, R. B. Insecticides for juniper scale [*Diaspis carueli*]. *Ohio Farm & Home Res.* [Ohio Sta.] 35:69-70. Sept./Oct.1950. 100 Oh35
- 22818 NICOLAS, G., and AGGÉRY, B. Observations sur l'activité de certains pucerons. *Paris. Acad. des Sci. Compt. Rend.* 231:1195-1197. Nov.27,1950. 505 P21  
Aphids causing a witches broom in plants.
- 22819 OMER-COOPER, J., and WHITEHEAD, G. B. Studies on the biological control of red scale [*Aonidiella aurantii*] in the Eastern Cape Province. *Citrus Grower* 201:6-7. Oct.1950. 80 C495
- 22820 ROSS, H. H., and DELONG, D. M. New species of *Erythroneura* of the *maculata* group (Homoptera: Cicadellidae). *Ohio J. Sci.* 50:291-296. Nov.1950. 410 Oh3
- 22821 SCHENK, P. J. On bugs and the use of winter spraying. (In Flemish.) *Cult. en Handel* 16:730-732. Dec.1950. 80 C892  
Controlling *Lygus* spp. on fruit.
- 22822 SCHNEIDER-ORELLI, O. Richtlinien zur bekämpfung der weisstannenläuse *Dreyfusia nusslini* und *Dreyfusia piceae* für 1949. *Schweiz. Z. f. Forstw.* 100:377-379. July/Aug.1949. 99.8 J82
- 22823 SMIRNOFF, W. La "cochenille noire" dans les cultures d'agrumes au Maroc. *Terre Marocaine* 24:457-460. Nov.1950. 24 T44  
*Parlatoria zizyphi*.
- 22824 STEUDEL, W. Über die bedeutung einiger winterfester gemüsesamenkulturen als winterwirte der grünen pfirsichblattlaus (*Myzodes* [i.e. *Myzus*] *persicae* Sulz.) in der Kölner bucht. *Nachrb. des Deut. Pflanzenschutzdienstes* 2:70-74. May 1950. 442.9 B832
- 22825 STITT, L. L. *Lygus* bugs and alfalfa seed production in the United States. *Alfalfa Impr. Conf. Rpt.* 12:50-51. 1950. 60.9 AL2
- 22826 THOMPSON, W. L. Control of scales, whiteflies and mealybugs. II. *Citrus Mag.* 13(4):25-27. Dec. 1950. 80 C498
- 22827 TSI, C. S. Protection against aphids by seed treatment. *Nature* [London] 166:909-910. Nov.25,1950. 472 N21
- 22828 TURICA, A. *Paratoxoptera argentinensis* (Blanchard). *IDIA; Inform. de Invest. Agr.* 3(33/34):29-30. Sept./Oct.1950. 9 Id3
- 22829 VÖLK, J., and HAUSCHILD, I. Abhängigkeit des blattlausbefalls von der kartoffelsorte. *Nachrb. des Deut. Pflanzenschutzdienstes* 2:74-75. May 1950. 442.9 B832  
*Myzus persicae*.
- 22830 WYGODZINSKY, P. Sobre el genero *Palacus* Dohrn, 1863 (*Emesinae* *Reduviidae*, Hemiptera). *B. de Ent. Venezol.* 8:103-114. Dec.31,1949, pub. June 15,1950. 421 B63  
English summary.

## HYMENOPTERA

- 22831 BAERENDS, G. P., and BAERENDS-VAN ROON, J. M. Embryological and ecological investigations on the development of the egg of *Ammophila campestris* Jur. *Tijdschr. v. Ent.* (1949)92:53-112. 1950. 421 T21
- 22832 BALÁS, G. Beiträge zur kenntnis der lebensweise der birntriebwespe. (*Janus compressus* F.). (In Hungarian.) *Agrtud. Egyetem Kert- és Szőlőgazdaságtud. Karának Közlem.* 13:202-208. Ref. 1949. 80 B85  
German summary.
- 22833 BENOIST, R. Notes sur quelques Apides (Hym.) paléarctiques. *Soc. Ent. de France. B.* 55:98-102. 1950. 420 F84B  
Includes new species in *Andrena*, *Eucera*, and *Osmia*.



- 22834 BHATNAGAR, S. P. Studies on Apanteles Förster (Viplonidae: parasitic Hymenoptera) from India. Indian J. Ent. 10:133-203. Ref. Dec.1948, pub. Oct. 1950. 420 In23
- 22835 BOHART, G. E. The alkali bee, *Nomia melanderi* Ckll. a native pollinator of alfalfa. Alfalfa Impr. Conf. Rpt. 12:32-35. 1950. 60.9 AL2
- 22836 BOHART, R. M. North American additions to the genus *Pterochellus* (Hymenoptera, Vespidae). Biol. Soc. Wash. Proc. 63:195-202. Dec.29, 1950. 500 W272
- 22837 BROWN, W. L., JR. Morphological, taxonomic, and other notes on ants. Wasmann J. Biol. 8:241-250. Summer 1950. 442.8 W28  
Includes *Pheldole neolongiceps*, new name for *P. longiceps* Agayo, not Mayr.
- 22838 BUZZARD, C. N. First-aid to a bumble bee [*Bombus*]. Country Life [London] 108:2066-2067. Dec.15, 1950. 80 C83
- 22839 CLARK, P. G. Nicotine, parathion, B.H.C.; an experiment in apple sawfly [*Hoplocampa testudinea*] control. Grower [London] 34:1046-1047. Nov.18, 1950. 286.83 M34
- 22840 DONISTHORPE, H. A first instalment of the ants of Turkey. Ann. & Mag. Nat. Hist. (ser.12)3:1057-1067. Dec.1950. 410 An77
- 22841 EWING, J. T. Alfalfa and the wild bee. Country Guide 70(1):11, 23. Jan.1951. 7 G76  
Wild bees as pollinators.
- 22842 FARSTAD, C. W., PLATT, A. W., and MCGINNIS, A. J. Influence of wheat varieties on the sex ratio of the wheat stem sawfly, *Cephus cinctus* Nort. (Hymenoptera: Cephidae). Ent. Soc. Ontario. Annu. Rpt. (1949)80:27-28. 1950. 420 On8
- 22843 FLANDERS, S. E. Races of apomictic parasitic Hymenoptera introduced into California. J. Econ. Ent. 43:719-720. Ref. Oct.1950. 421 J822  
*Aspidiotiphagus citrinus*; *Prospaltella perniciosi*. Introduced for biological control of scale insects on citrus.
- 22844 GÖKMEN, N. Arge pleuridica K. un nouvel parasite sur les feuilles de l'amandier. (In Turkish.) Mahsul Hekiml 3:183-185. Aug.1950. 464.8 M27  
French summary.
- 22845 GRAHAM, M. W. R. DE V. Eggs of unknown insect deposited on the body of sphecoid wasps. Ent. Mon. Mag. 86:348-351. Dec.1950. 421 En86  
Eggs resemble those of Tachinidae.
- 22846 GROSCH, D. S. Cytological aspects of the spinning glands of the parasitic wasp, *Habrobracon* [i.e. *Microbracon*], from Feulgen preparations. (Abs.) Elisha Mitchell Sci. Soc. J. 66:118-119. Dec.1950. 500 EL4
- 22847 GROSCH, D. S. Olfactometer experiments with male braconids [*Microbracon hebetor*]. Ent. Soc. Amer. Ann. 43:334-342. Ref. Sept.1950. 420 En82
- 22848 HARWOOD, P. *Xyelatana piliserra* Thomson (Hym., Xyelidae) in Inverness-shire, an addition to the British fauna. Ent. Mon. Mag. 86:360. Dec.1950. 421 En86
- 22849 HERRSTRÖM, G. Attack by the turnip sawfly [*Athalia rosae*] on white mustard in South Sweden. (In Swedish.) Sweden. Stat. Växtskyddsanst. Växtskyddsnotiser 1950:35-38. Aug.1950. 464.9 Sw3V
- 22850 HINCKS, W. D. Notes on some British Mymaridae (Hym.). Soc. Brit. Ent. Trans. 10:167-207. Ref. Oct.19, 1950. 420 So15  
Includes new species in *Polynema*.
- 22851 HOBBS, G. A. Pollinating species of bees in the irrigated regions of southern Alberta. Alfalfa Impr. Conf. Rpt. 12:47-49. 1950. 60.9 AL2  
Chiefly *Megachile*.
- 22852 HOBBS, K. R. Notes on the classification of Torymids with the biology and description of a new species (Hymenoptera: Torymidae). Pan-Pacific Ent. 26:173-178. Oct.1950. 421 P193
- 22853 IERSEL, J. VAN. On the orientation of *Bembex rostrata* L. (In Dutch.) Nederland. Ent. Ver. Verslag en Wetensch. Meded. 9:lxiv-lxviii. 1950. 420 N28V
- 22854 KATWIJK, W. VAN. Injuries to apples by the larvae of the dock sawfly (*Ametastegia glabrata* Fall). (In Dutch.) Groenten en Fruit 6:269-270. Oct.19, 1950. 80 G89
- 22855 LECLERCQ, J. Description d'une espèce nouvelle d'Entomocrabro (Hym. Sphecidae) de la République d'Equateur. Soc. Ent. de France. B. 55:93-94. 1950. 420 F84B
- 22856 LECLERCQ, J. Les Ectemnius sud-américains du sous-genre Apoctemnius (Hymenoptera, Sphecidae, Crabroninae). I. Rev. Franc. d'Ent. 17:200-210. 1950. 421 R321
- 22857 LIMA, A. DA C. Two wasps of economic interest (Hymenoptera, Ichneumonidae). (In Portuguese.) Acad. Bras. de Cien. An. 22:317-323. Sept.30, 1950. 516 R473A  
New species in *Mesochorus* and *Macrocentrus*.
- 22858 MEIJERINK, W. E. Hornet [*Vaspa crabro*] damage. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 61:370-371. Dec.1950. 12 N282
- 22859 NOGUEIRA-NETO, P. More stingless bees in the U. S. Gleanings Bee Cult. 79:30-31. Jan.1951. 424.8 G47  
*Trigona* sp.
- 22860 O'ROURKE, F. J. Formic acid production among the Formicidae. Ent. Soc. Amer. Ann. 43:437-443. Ref. Sept.1950. 420 En82
- 22861 PATERSON, C. R., and THOMAS, C. R. Combating wasps [*Vespula germanica*] in New Zealand. New Zeal. J. Agr. 81:459-460. Nov.1950. 23 N48J
- 22862 PLATT, A. W. Breeding for the production of sawfly [*Cephus cinctus*] resistant spring wheats. Ent. Soc. Ontario. Annu. Rpt. (1949)80:22-24. 1950. 420 On8
- 22863 RATH. Die apfelsägewespe. (*Hoplocampa testudinea*.) Gart.-Z. Illus. Flora 73:106-107. Sept.1950. 80 G1991
- 22864 RATH. Die birngespinnstwespe. (*Neurotoma flaviventris*.) Gart.-Z. Illus. Flora 73:131. Nov.1950. 80 G1991
- 22865 SCHMIDT, H. W. Über ein massenaufreten der stachelbeerblattwespe [*Nematus ribesii*] in Nordbayern. Anz. f. Schädlingssk. 23:166-167. Nov.1950. 421 An9
- 22866 SHUTOVA, N. N. New insect-predator [*Casca chinensis*]—parasite of *Leucaspis japonica* [pest of citrus crops]. (In Russian.) Priroda 39(8):72-74. Aug.1950. 410 P933
- 22867 STELFOX, A. W. Description of two new species of Phaenocarpa (Hym., Brac., Alysiinae) from Ireland. Ent. Mon. Mag. 86:354-356. Dec.1950. 421 En86
- 22868 STEVENS, O. A. Native bees. N. Dak. Agr. Expt. Sta. Bimon. B. 13:72-80. Nov./Dec.1950. 100 N813B
- 22869 TSUNEKI, K. Descriptions of new species and subspecies of the Chrysididae from East Asia (Hymenoptera). Mushi 21:61-81. Sept.30, 1950. 421 M97  
New species and forms in *Ellampus*, *Chrysellampus*, *Hedychrum*, and *Chrysis*.
- 22870 WEBER, N. A. New Trinidad Myrmicinae, with a note on *Basiceros* Schulz (Hymenoptera, Formicidae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1465, 6 p. Aug.16, 1950. 500 N483N  
New species in *Lachnomyrme* and *Aspididris* n.g.

See also Apiculture and *Apis mellifera*.

## LEPIDOPTERA

- 22871 ABBOTT, C. H. Twenty-five years of migration of the painted lady butterfly, *Vanessa cardui*, in Southern California. Pan-Pacific Ent. 26:161-172. Ref. Oct.1950. 421 P193
- 22872 BARRITT, J. Mothproofing of wool. (In French and Flemish.) (Sum.) Monit. Textile 12:1521. Nov.1950. 304.8 M74
- 22873 BECK, S. D., BILSTAD, N. M., and LILLY, J. H. Prepupal changes in the ventricular epithelium of the European corn borer, *Pyrausta nubilalis* (Hbn.). Ent. Soc. Amer. Ann. 43:305-310. Sept.1950. 420 En82
- 22874 BLICKENSTAFF, C. C. The European corn borer [*Pyrausta nubilalis*]. Iowa State Hort. Soc. Trans. 84:76-80. 1949. 81 Io9
- 22875 BOURSIN, C. Eine neue gattung [*Mesoplus*] der unterfamilie Zenobinae aus dem Syr-Darja-Gebiet. (Beiträge zur kenntnis der Agrotidae-Trifinae XLV). Wien. Ent. Gesell. Z. 34:158-160. Dec.31, 1949. 421 Os7
- 22876 BRETSCHNEIDER, R. Neubesiedelung der dresdner fauna durch einwanderung und verbreitung mehrerer Makrolepidopteren. Wien. Ent. Gesell. Z. 34:166-168. Dec.31, 1949. 421 Os7
- 22877 BROOKS, C. J. A revision of the genus *Tenaris* Hübnr (Lepidoptera: Amathusiidae). Roy. Ent. Soc. London, Trans. 101:179-238. Nov.10, 1950. 420 L84
- 22878 BUDETTA, P. A menacing tobacco pest: *Phthorimaea* [i.e. *Gnorimoschema*] *operculella* (Zeller), or potato tuberworm. (In Italian.) Tabacco 54:284-296. Ref. Sept.1950. 69.8 T115



- 22879 BURMANN, K. *Gracilaria populetorum* Z. (Lepidoptera, Gracilariidae). Wien. Ent. Gesell. Z. 35:17-20. Ref. Mar.20,1950. 421 Os7
- 22880 CARLONI, M. *Ephestia elutella*, tobacco moth. (In Italian.) *Tabacco* 54:321-326. Oct.1950. 69.8 T115
- 22881 CARPENTER, A. Mothproofing in theory and practice. *Textile Rec.* 68(813):83-84. Dec.1950. 304.8 T311  
Wool.
- 22882 CHACE, L. M. A cecropia moth [*Hyalophora cecropia*] emerges. *Nat. Hist.* 59:446-449. Dec.1950. 500 N483J
- 22883 COMSTOCK, W. P., and BROWN, F. M. Geographical variation and subspeciation in *Heliconius charitonius* Linnaeus (Lepidoptera, Nymphalidae). *Amer. Mus. Nat. Hist. Amer. Mus. Novitates* 1467, 21 p. Ref. Oct.16,1950. 500 N483N
- 22884 DE HAVILLAND, SIR G. A little-known moth [*Gastropacha quercifolia*]. *Country Life* [London] 108: 2008. Dec.8,1950. 80 C83
- 22885 DOCTERS VAN LEEUWEN, W. M. Diurnal butterflies this summer. (In Dutch.) *Ent. Ber.* 13:160. Oct.1950. 420 N38B
- 22886 FLOYD, E. H., SMITH, C. E., and STRONG, R. G. Control corn earworms [*Heliothis armigera*] in sweet corn. *La. Agr. Col. Ext. Mimeog.* E-2, 4 p. Mar. 1950. 275.29 L93M1
- 22887 FOITIN, H. Eine lokalrasse der *Oreopsyche muscella* F. *Wien. Ent. Gesell. Z.* 35:15-16. Mar.20, 1950. 421 Os7
- 22888 FREEMAN, H. A. Notes on Megathymus, with description of a new species (Lepidoptera, Rhopalocera, Megathymidae). *Field & Lab.* 18:144-146. Oct.1950. 470 F46
- 22889 GAINES, J. C. Sorghum webworm [*Celama sorghiella*] control. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1291, 2 p. Nov.21,1950. 100 T31P
- 22890 GALLEGU M., F. L. Estudios entomologicos; el gusano de las hojas de la yuca [*Erinnyis ello*]. Colombia. *U. Nac. Facul. Nac. de Agron. Rev.* 11:84-110. June/Sept.1950. 9.4 C717  
Biology; control; parasites.
- 22891 GARNIER, M. Un fléau pour nos forêts et nos vergers: les chenilles en Kroumirie. *Colon Franç. de Tunisie* 60(2174):4. Dec.2,1950. 24 C712
- 22892 GOIDANICH, A. How to prevent them, how to fight them; clothes moths, the despair of every housewife. (In Italian.) *Gior. di Agr.* 60:365. Nov.19,1950. 16 It1G  
*Tineola bisselliella*, *Tinea pellionella*, *Trichophaga tapetzella*.
- 22893 GRADL, F. *Arctia flavia* Fuessly, "der Engadiner-bär" in den Urgesteinsalpen Vorarlbergs. *Wien. Ent. Gesell. Z.* 35:22-25. Mar.20,1950. 421 Os7
- 22894 HAINE, E. Kurzer bericht über einen gold-aterbekämpfungsversuch. *Anz. f. Schädlingk.* 23:163-165. Nov.1950. 421 An9  
*Nygma phaeorrhoea*.
- 22895 HAMSTEAD, E. O., and GOULD, E. Codling moth oocyte studies. *J. Econ. Ent.* 43:724-726. Oct.1950. 421 J822
- 22896 HASEMAN, L. Prevent cabbage worm injury. *Mo. Agr. Expt. Sta. C.* 351, 2 p. July 1950. 100 M693  
Revision of Circular 259.  
Damage by caterpillars.
- 22897 HEIKERTINGER, F. Das problem der "totalzeichnung" auf den schmetterlingsflügeln. *Wien. Ent. Gesell. Z.* 34:147-153. (Cont.) Dec.31,1949. 421 Os7
- 22898 HOFFMANN, E. Verzeichnis der von Herrn Johann Prantess † aus der gegend von Abtenau in Salzburg gesammelten Macrolepidopteren. Mit einem kurzen nachruf des im felde gefallenen sammlers und mit einer neubeschreibung von *Parnassius mnemosyne hartmanni* Stdf. ab. prantessi. *Wien. Ent. Gesell. Z.* 35:25-33. Mar.20,1950. 421 Os7
- 22899 HOVANITZ, W. The biology of *Collia* butterflies. II. Parallel geographical variation of dimorphic color phases in North American species. *Wasmann J. Biol.* 8:197-219. Summer 1950. 442.8 W28
- 22900 JONGE, C. DE. Control of leaf rollers [Tortricidae]. (In Dutch.) *Betuw's Tuinbouwbl.* 8(17):5-6. Nov.4,1950. 80 B464
- 22901 JUDD, W. W. *Acentropus niveus* (Oliv.) (Lepidoptera: Pyralidae) on the north shore of Lake Erie with a consideration of its distribution in North America. *Canad. Ent.* 82:250-252. Dec.1950. 421 C16
- 22902 KING, J. L. F. Quick death for the gypsy moth [*Porthetria dispar*]. *Amer. Forests* 57:14-15,30,33. Jan.1951. 99.8 F762
- 22903 KINOSHITA, S., HAMA, T., and FUKAYA, M. The effect of population ratio between *Trichogramma japonicum* Ashmead and *Ephestia cautella* Walker upon the phases of parasitism. (In Japanese.) *Tokyo. Natl. Agr. Expt. Sta. J.* 4:55-76. Mar.1950. 107.6 N63J  
English summary.
- 22904 KRAEMER, G. D. Beitrag zur biologie von *Amicta quadrangularis* Heyl. (Lep. Psychidae). *Wien. Ent. Gesell. Z.* 34:160-164. Dec.31,1949. 421 Os7
- 22905 LAIRD, M. Lepidopterous eggs and larvae from the exterior of aircraft fuselages. *Nature* [London] 166:1081. Dec.23,1950. 472 N21
- 22906 LEMPKE, B. J. Catalog of Netherlands Macrolepidoptera. IX. Geometridae (cont.). (In Dutch.) *Tijdschr. v. Ent.* (1949)92:113-218. 1950. 421 T21  
Includes many new forms.
- 22907 LEMPKE, B. J. Migratory butterflies in 1949 (tenth annual report.). (In Dutch.) *Ent. Ber.* 13:147-153. (Concl.) Oct.1950. 420 N38B  
English summary.
- 22908 LIGONDES, J. DE. A propos de filets a papillons. *Entomologiste* 6:84-88. May/June 1950. 421 En814
- 22909 LINDENBAUER, M. Nachtrag und ergänzung zu meinem aufsatz "Neptis aceris Lepech". *Wien. Ent. Gesell. Z.* 34:165-166. Dec.31,1949. 421 Os7
- 22910 MARTYN, E. J. An outbreak of *Oxycaenus fuscomaculatus* Walker on King Island. *Austral. Inst. Agr. Sci. J.* 16:105-107. Sept.1950. 23 Au74
- 22911 MIYAMOTO, Y. The reduction in yield of rice caused by the infestation of the rice-borer [*Chilo simplex*] (In Japanese.) *Botyu-Kagaku* 15:110-114. June 1950. 421 B65  
English summary.
- 22912 MPAMBANI, G. F. Cut worm in our vegetable gardens. *Transkeian Ter. Agr. Dept. Umceblsi Womlimi Nomfuyi* 27(4):24. Nov.1950. 24 T684  
Control for the Union of South Africa.
- 22913 MUNRO, J. A., and COLBERG, W. J. European corn borer [*Pyrausta nubilalis*] occurrences in North Dakota. *Ent. Soc. Ontario. Annu. Rpt.* (1949)80:20-21. 1950. 420 On8
- 22914 NEW SOUTH WALES. DEPT. OF AGRICULTURE. The beet web-worm (*Hymenia recurvallis*). *N. S. Wales. Dept. Agr. Insect Pest L.* 100, 1 p. 1950. 423.92 N47
- 22915 NEWMAN, H. L. Courtship of butterflies; curious behaviour during mating peculiar to different species. *Field* 196:911,913. Nov.25,1950. 10 F45
- 22916 NIIMURA, T. Nihon no cho [Butterflies of Japan]. Tokyo, Nanjo Shoten, 1950. 112 p. 430 N57
- 22917 OBRAZTSOV, N. On the correct name of the family Phalonidae. (Lepidoptera). *Ent. News* [Philadelphia] 61:198. Dec.1950. 421 En88  
Agapetidae.
- 22918 PALETTA, K. Der erbsenwickler (*Grapholitha spec.*). *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:215. Dec.1950. 18 D4822
- 22919 PANT, G. D., and CHATTERJEE, N. C. A list of described immature stages of Indian Lepidoptera. I. Rhopalocera. *Indian Forest Rec. New Ser. Ent.* 7:213-255. 1949, pub. 1950. 99.8 In22E
- 22920 PICARD, J. Études sur les Hesperidae du Maroc. *Soc. des Sci. Nat. du Maroc. B.* 28:110-135. Ref. 1948, pub. 1950. 515 Sol
- 22921 POTTER, L. D. Elm species resistance to canker worm [*Paleacrita vernata*] injury. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:57-58. Nov./Dec.1950. 100 N813B
- 22922 RAO, Y. R., CHERIAN, M. C., and ANANTHANARAYANAN, K. P. Infestations of *Nephantis serinopa* Meyr. in south India and their control by the biological method. *Indian J. Ent.* 10:205-247. Ref. Dec.1948, pub. Oct.1950. 420 In23  
Pest of coconut.
- 22923 REALI, G. Experiments in the control of *Stilpnotia salicis* L. using products with a DDT base. (In Italian.) *B. de Zool. Agr. e Bachicoltura.* 16:15-22. 1950. 423.92 B63  
On poplar.
- 22924 REISSER, H. Neue oder bemerkenswerte falterfunde aus dem Burgenland und aus Niederösterreich. *Wien. Ent. Gesell. Z.* 34:141-146. Dec.31,1949. 421 Os7



- 22925 RICHARDSON, C. H. Red-banded leaf roller [*Argyrotaenia velutinana*]-important new apple pest in Iowa. Iowa State Hort. Soc. Trans. 84:59-62. 1949. 81 Io9
- 22926 RINOLDI, L. Against moths and molds in the wool industry. (In Italian.) Laniera 64:673,675. Sept. 1950. 45.8 B63
- 22927 RUNGS, C. Notes de lépidoptéologie marocaine (XVI): descriptions et notes critiques. Soc. des Sci. Nat. du Maroc. B. 28:142-166. 1948, pub. 1950. 515 Sol
- Includes new species and forms in: *Euchloe*, *Melitaea*, *Euxoa*, *Dasyptilia*, *Eumichtis*, *Sidemia*, *Caradrina*, *Axia*, *Ortholitha*, *Boarmia*, *Selenia*, *Fidonia*, and *Taragama*.
- 22928 SCHENK, P. J. The tent caterpillar butterfly [*Malacosoma neustria*]. (In Flemish.) Cult. en Handel 16:672-673. Nov. 1950. 80 C892
- 22929 SMITH, C. A. S. The first records of European corn borer [*Pyrausta nubilalis*] in western Canada. Ent. Soc. Ontario. Annu. Rpt. (1949)80:18-19. 1950. 420 On8
- 22930 SMITH, K. M., and WYCKOFF, R. W. G. Structure within polyhedra associated with insect virus diseases. Nature [London] 166:861-862. Nov. 18, 1950. 472 N21
- Election microscope studies of infected caterpillars.
- 22931 SOENEN, A. Notes biologiques concernant la chelmatobie [*Operophtera brumata*]. Gent. Landbouwhoe. Meded. 15:154-174. Apr. 1950. 105.1 G344
- English summary.
- 22932 STEUDEL, W. Die wirkung einiger kontaktgifte auf nonnenraupen [*Lymantria monacha*] im klimatischen optimum. Z. f. Angew. Ent. 32:49-85. Ref. Aug. 1950. 421 Z36
- Dinitro-o-cresol, pyrethrum, and derris.
- 22933 STRONG, R. C., and SMITH, C. E. Control cutworms and armyworms [*Cirphis unipuncta*] in legumes, cereal crops and grasses. La. Agr. Col. Ext. Mimeog. E-3, 2 p. Apr. 1950. 275.29 L93Mi
- 22934 SYLVÉN, E. The caterpillar pest at Ven. (In Swedish.) Sweden. Stat. Växtskyddsanst. Växtskyddsnötiser 1950:33-35. Aug. 1950. 464.9 Sw3V
- Nygma phaeorrhoea*, *Diloba caeruleocephala*, *Malacosoma neustria*, *Hyponomeuta malinellus*.
- 22935 SZELENYI, G. Die parasiten von Hyphantria cunea Drury in Ungarn. (In Hungarian.) Agrtudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem. 13:159-181. Ref. 1949. 80 B85
- German summary.
- 22936 WALKDEN, H. H. Cutworms, armyworms [*Cirphis unipuncta*] and related species attacking cereal and forage crops in the central Great Plains. U. S. D. A. C. 849,52 p. Ref. 1950. 1 Ag84C
- 22937 WALRECHT, B. J. J. R. Observations on the pupation of some familiar caterpillars (*Cossus cossus* and *Acherontia atropos*). (In Dutch.) Natura 47:214-217. Nov. 1950. 410 N2192
- 22938 WASSERBURGER, H. J. Beobachtungen über die biologie und die bekämpfung der johannisbeermotte (*Incurvaria capitella* Cl.). Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n.s.) 4:176-178. Sept. 1950. 464.9 N11
- 22939 WELANDER, E. Endromis versicolora. (In Swedish.) Sveriges Natur 41:101-105. 1950. 410 Sv2
- 22940 WESTDAL, P. H. A preliminary report on the biology of *Phalonia hospes* Wlsh. (Lepidoptera: Phalanidae), a new pest of sunflowers in Manitoba. Ent. Soc. Ontario. Annu. Rpt. (1949)80:36-38. 1950. 420 On8
- 22941 WETTINGER, Leimgürtel gegen frostspanner [*Operophtera brumata*]. Bad. Landwirt. Wchnbl. 117:733. Oct. 28, 1950. 18 B142
- 22942 WILLIAMS, C. B., and LONG, D. B. Phase coloration in larvae of Lepidoptera. Nature [London] 166:1035. Dec. 16, 1950. 472 N21
- See also Sericulture and the Silkworm.
- 22943 BETTINI, S., SARKARIA, D. S., and PATTON, R. L. Observations on the fate of vertebrate erythrocytes and hemoglobin injected into the blood of the American cockroach [*Periplaneta americana*]. Science 113(2923):9-10. Jan. 5, 1950. 470 Sci2
- 22944 CHIAROMONTE, A. The Desert Locust Advisory Committee meeting at Nairobi. (In Italian.) Riv. di Agr. Subtrop. e Trop. 44:203-208. July/Sept. 1950. 26 Ag82
- 22945 COMITÉ INTERAMERICANO PERMANENTE ANTIACRIDIANO. Memorias de los ejercicios; 15 de julio - 30 de diciembre de 1948; 1 de enero - 30 de diciembre de 1949. Buenos Aires, 1950. 25 p. 429 C73M
- 22946 DIRSH, V. M. A contribution to the fauna of Acrididae of Syria and neighbouring countries. Eos 26: 54-71. Jan./June 1950. 421 Eo7
- Includes new species in *Proinosthenus*.
- 22947 FERNÁNDEZ, J. A. Tucura [*Dichroplus maculipennis*] y erosión. Buenos Aires y La Pampa 107: 21-23. Oct. 1950. 9 B868
- 22948 GOODWIN, T. W., and SRISUKH, S. Biochemistry of locusts. 3-4. Blochem. J. 47:549-562. Ref. Nov./Dec. 1950. 382 B52
- 3, Insectorubin: the redox pigment present in the integument and eyes of the desert locust (*Schistocerca gregaria* Forsk.), the African migratory locust (*Locusta migratoria migratorioides* R. and F.) and other insects, by T. W. Goodwin and S. Srisukh; 4, Insectorubin metabolism in the desert locust (*Schistocerca gregaria* Forsk.) and the African migratory locust (*Locusta migratoria migratorioides* R. and F.), by T. W. Goodwin.
- 22949 GURNEY, A. B. The Linnaean subgeneric names of *Gryllus* (Orthoptera). Wash. Acad. Sci. J. 40: 409-413. Dec. 15, 1950. 500 W276J
- 22950 HORNER, W. H., HOLMES, V. B., and WHITE, M. W. The 1949 grasshopper campaign in Saskatchewan. Ent. Soc. Ontario. Annu. Rpt. (1949)80:10-14. 1950. 420 On8
- 22951 JENKINS, C. F. Aerial baiting for the control of the little plague grasshopper (*Austroicetes cruciata* Sauss.). West. Austral. Dept. Agr. J. (ser. 2) 27:164-170. June 1950. 23 W52J
- 22952 JUDD, W. W. Further records of the occurrence of the European praying mantis (*Mantis religiosa* L.) in southern Ontario. (Orthoptera). Ent. News [Philadelphia] 61:205-207. Dec. 1950. 421 En88
- 22953 MITCHENER, A. V. Aldrin, chlordane, dieldrin and toxaphene compared for the control of grasshoppers in Manitoba in 1949. Ent. Soc. Ontario. Annu. Rpt. (1949) 80:16-18. 1950. 420 On8
- 22954 MORALES, C. Lucha implacable contra la tucura. Bolsa de Com., Rosario. Rev. 38(928):7-8. Sept. 15, 1950. 287 R71
- Dichroplus maculipennis*; also *Scyllina variabilis* and *D. elegantus*.
- 22955 MORALES AGACINO, E. Algunos datos sobre Acrididos de El Líbano. Eos 26:19-36. Ref. Jan./June 1950. 421 Eo7
- Includes new species in *Egnatioides*.
- 22956 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Cockroaches (Blattellidae). N. S. Wales. Dept. Agr. Insect Pest L. 99,2 p. 1950. 423.92 N47
- 22957 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Mole crickets (*Gryllotalpa* spp.). N. S. Wales. Dept. Agr. Insect Pest L. 86,3 p. 1950. 423.92 N47
- 22958 OGLOBLIN, A. Preparación de los cebos tóxicos. Bolsa de Com., Rosario. Rev. 38(931):11-14. Oct. 31, 1950. 287 R71
- For grasshoppers and locusts.
- 22959 PETRI, L. H., and AMEEL, D. J. Studies on the life cycle of *Physaloptera rara* Hall and Wigdor, 1918, and *Physaloptera praeputialis* Linstow, 1889. (Abs.) J. Parasitol. 36(6, sect. 2):40. Dec. 1950. 448.8 J824
- Reared in kitten and dog or coyote respectively, using *Blattella germanica* as intermediate host.
- 22960 RAYCHAUDHURI, S. P., and MANNA, G. K. Evidence of a multiple sex-chromosome mechanism in a gryllid [*Euscirtus* sp.]. J. Hered. 41:277-280. Ref. Oct. 1950. 442.8 Am3
- 22961 REED, H. M., JR. The lubber locust [*Romalea microptera*]. Nat. Hist. 59:475. Dec. 1950. 500 N483J
- 22962 ROAN, C. C. A radiobiological study of some insecticidal derivatives of diethyl phosphoric acid. Urbana, 1950. 3 p. 423 R532
- Tests with *Periplaneta americana*, using p32.
- 22963 SMITH, D. S. A study of some of the effects of certain food plants on the grasshopper, *Melanoplus mexicanus mexicanus* (Sauss.) (Orthoptera: Acrididae). Ent. Soc. Ontario. Annu. Rpt. (1949)80:14-16. 1950. 420 On8

## ORTHOPTERA



- 22964 TAHMISIAN, T. N., and ADAMSON, D. M. Oxidase increase in *Melanoplus differentialis* eggs caused by X-irradiation. *J. Expt. Zool.* 115:379-397. Ref. Nov. 1950. 410 J825
- 22965 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Grasshopper infestation expected in 1951. Denver, 1950. map. 1.967 A2G76
- 22966 VASIL'EV, K. A. Migratory flights of Italian locust (*Calliptamus italicus* L.). (In Russian.) *Akad. Nauk SSSR. Dok.* 74:385-388. Sept. 11, 1950. 511 P444A
- 22967 WILLEMSE, C. Description of a new genus [*Bulnacris*] and species of Acrididae (Orthoptera) from the Solomon Islands. *Tijdschr. v. Ent.* (1949)92:251-255. 1950. 421 T21
- 22968 WILLEMSE, C. Second addition to the knowledge of the Dermaptera and Orthoptera of the Canary Islands. *Tijdschr. v. Ent.* (1949)92:248-250. 1950. 421 T21
- 22969 YOUNG, R. H. Fighting locusts in Africa; first cousins of our "grasshoppers" present grave threat to vast areas. *West. Farm Leader* 16:25. Jan. 19, 1951. 280.28 W52

## SERICULTURE AND THE SILKWORM

- 22970 COWLEY, G. The story of silk. *Fruit & Prod.* 5(4):13-14. Aug. 1950. 80 F9427
- 22971 GRANDORI, L., and REALI, G. Use of narcotics in the study of the mechanism of the action of DDT on insects. (In Italian.) *B. di Zool. Agr. e Bachicoltura.* 16: 3-14. 1950. 423.92 B63  
English summary.  
Experiments with *Bombyx mori*.
- 22972 HIRATA, Y., NAKANISHI, K., and KIKKAWA, H. New pterins (xanthopterin-B, leucopterin-B and a 6-dehydroxyleucopterin derivative) obtained from *Bombyx mori* (silk worm). *Chem. Soc. Japan B.* 23:76-80. Ref. Aug. 1950. 385 T57B
- 22973 HOWITT, F. O. Preparation of silk gut in the British Commonwealth. *Colon. Plant & Anim. Prod.* 1: 52-56. Jan./Mar. 1950. 472 C71
- 22974 RAFFY, A. L'auto-stérilisation chez les chrysalides de *Bombyx mori* L. *Paris. Acad. des Sci. Compt. Rend.* 231:1345-1346. Dec. 6, 1950. 505 P21
- 22975 VAGO, C. Un nouveau type d'épizootie dans les élevages de vers à soie. *Acad. d'Agr. de France. Compt. Rend.* 36:530-531. July 5, 1950. 14 P215Bc

## SMALLER ORDERS

- 22976 ASH, J. Some Berkshire records of Siphonaptera in 1949. *Ent. Mon. Mag.* 86:359. Dec. 1950. 421 En86
- 22977 COTT, H. E. A secondary homonym in Thysanoptera (Thysanoptera: Phlaeothripidae). *Pan-Pacific Ent.* 26:187. Oct. 1950. 421 P193  
*Watsoniella jonesiana* n.n. for *W. flavipes* (Jones), not Moulton.
- 22978 DAVIS, J. J. The prevention and control of termites. *Purdue U. Agr. Ext. B.* 225, rev., 16 p. 1950. 275.29 In2E
- 22979 EDMUNDS, G. F., JR. New records of the mayfly genus *Baetodes*, with notes on the genus. *Ent. News [Philadelphia]* 61:203-205. Dec. 1950. 421 En88
- 22980 EVANS, F. C., and FREEMAN, R. B. On the relationships of some mammal fleas to their hosts. *Ent. Soc. Amer. Ann.* 43:320-333. Ref. Sept. 1950. 420 En82
- 22981 HALL, C. C., JR. The Trichoptera or caddis flies of Dallas County, Texas. *Field & Lab.* 18:165-177. Oct. 1950. 470 F46
- 22982 HARRIS, W. V. Dry-wood termites. *East African Agr. J.* 16:50-52. July 1950. 24 Ea74
- 22983 HOOD, J. D. A new Hoplothrips from Cuba (Thysanoptera, Phlaeothripidae). *Biol. Soc. Wash. Proc.* 63:139-146. Dec. 29, 1950. 500 W272
- 22984 HUNT, B. P. A study of the life history, ecology and economic importance of a burrowing mayfly, *Hexagenia limbata* (Serville), in certain Michigan waters. *Mich. U. Microfilm Abs.* 10(4):351-352. 1950. 241.8 M58
- 22985 KARANDIKAR, K. R., and MUNSHI, D. M. Life history and bionomics of the cat flea, *Ctenocephalides felis* Bouche. *Bombay Nat. Hist. Soc. J.* 49:169-177. Ref. Aug. 1950. 513 B63

- 22986 KIMMINS, D. E. Indian caddis flies. III. New genera and species of the family Limnephilidae. *Ann. & Mag. Nat. Hist.* (ser. 12) 3:905-934. Nov. 1950. 410 An77  
New species in *Pseudostenophylax*, *Aplatyphylax* n.g., *Apatellina*, *Notania* n.g., and *Apatidea*.
- 22987 LAIDLAW, F. F. A survey of the Chlorocyphidae (Odonata: Zygoptera), with diagnoses of proposed new genera [*Sundacypha*, *Heterocypha*, *Aristocypha*], and description of a new geographical subspecies [*Melanocypha*]. *Roy. Ent. Soc. London, Trans.* 101:257-280. Ref. Nov. 30, 1950. 420 L84
- 22988 LHOSTE, J. Les termites et le chlordane. *Entomologiste* 6:71-72. May/June 1950. 421 En814
- 22989 MACAN, T. T. Descriptions of some nymphs of the British species of the genus *Baëtis* (Ephem.). *Soc. Brit. Ent. Trans.* 10:143-166. Ref. Oct. 19, 1950. 420 So15
- 22990 ROSS, E. S. The Embiidae of India (Embiop-tera). *Wasmann J. Biol.* 8:133-153. Summer 1950. 442.8 W28  
Includes new species in *Embia*, *Metembia*, and *Pseudembia*.
- 22991 SAILER, R. I. A thermophobic insect. *Science* 112:743. Dec. 22, 1950. 470 Sci2  
*Nemoura columbiana*.
- 22992 SCHMIDT, H. Studien an darmbewohnenden flagellaten der termiten. I. *Joenia annectens* Grassi in *Calotermes* [i.e. *Kalotermes*] *flavicollis* Fabr. *Z. f. Parasitenk.* 14:535-544. Ref. 1950. 442.8 Z33F
- 22993 SCOTT, M. T. Observations on the bionomics of *Linognathus pedalis*. *Austral. J. Agr. Res.* 1:465-470. Oct. 1950. 23 Au783  
On sheep.
- 22994 SKILLMAN, E. The gladiolus thrips [*Taeniothrips simplex*]. *Gard. Chron.* 128:182. Nov. 4, 1950. 80 G162
- 22995 STOFMEEL, W. J. The gladiolus thrips [*Taeniothrips simplex*]. (In Dutch.) *Volkstuin* 33:116. Oct. 1950. 80 V88
- 22996 VERRIER, M. L. La poecilogonie chez les Ephemères; étude anatomique et écologique. *Ann. Biol. [Paris]* (ser. 3) 26:297-312. Ref. July 1950. 442.8 An7
- 22997 WORLD HEALTH ORGANIZATION. Expert committee on plague; report on the first session, Geneva, 19-24 September 1949. *World Health Organ. Tech. Rpt. Ser.* 11, 32 p. Oct. 1950. 449.9 W892T  
Includes discussion of rat and flea vectors.
- 22998 ZEKHNOV, M. I. Adaptive phenomena in the propagation of Mallophaga of the jackdaw (*Coloeus monejula* L.). (In Russian.) *Zool. Zhur.* 29:478-480. Sept./Oct. 1950. 410 R92  
*Degeeriella varia*, *Myrsidea anathorax*, and *Philopterus guttatus*.

## AGRICULTURAL ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

## GENERAL AND MISCELLANEOUS

- 22999 COE, M. Safety—a basic ranch program. *Rec. Stockman, Annu. Ed.* (1951)61(52):50. Dec. 28, 1950. 49 D43
- 23000 DIVELEC, G. P. LE. Aerophotogrammetry applied to the survey of large areas at mean scale. (Sum.) *Photogrammetria* 1950/51(1):40-43. 1950. 325.28 P562
- 23001 FELKNER, M. E. You can safeguard your farm against fire! Iowa Farm & Home Register 1950:12-H, 16-H. Dec. 3, 1950. 6 Io94
- 23002 HALL, J. Your most important road goes past your farm. *Amer. Agr.* 147:697,699. Dec. 16, 1950. 6 Am3  
On the need for farm-to-market roads in New York.
- 23003 JOHNSON, I. 4-H is no accident. Better Farming Better Living 1950:14. Autumn 1950. 6 B464  
4-H farm and home safety program.
- 23004 MANZINO, G. Recovery of damaged base with the double reduction system at the circumference. (In Italian.) *Riv. di Estimo Agr. e Genio Rur.* 8:483-486. Oct. 1950. 281.8 R522  
Surveying of rural lands.



23005 MARYLAND. AGRICULTURAL EXPERIMENT STATION. Local rural road use and benefits in Maryland. Md. Agr. Expt. Sta. B. A-61, 28 p. Nov. 1950. 100 M36S

23006 NICHOLSON, A. Paint will protect you. Country Gent. 121:24, 57-58, 62. Jan. 1951. 6 C833  
Black and yellow warning stripes at hazardous points.

23007 NOGYO DOBOKU GAKUKAI. Nogyo doboku handobukku [Handbook of agricultural engineering works]. Tokyo, Maruzen, 1950. 1519 p.

23008 PAUL, C. V. Report of the Agricultural Engineering Department for 1949-50. Allahabad Farmer 24: 172-173. Sept. 1950. 22 AL5  
Allahabad Agricultural Institute.

23009 RYAN, J. M. Dakota farmstead improvement. Dakota Farmer 70(24):24-25; 71(2):20-21. Dec. 16, 1950, Jan. 20, 1951. 6 D14

23010 SCHUESSLER, R. Make your farm fire-proof. Canad. Countryman 39(21):7, 19. Oct. 14, 1950. 7 C833

23011 TOBIN, R. E. Soil cement for rural roads. In Northwest Conference on Road Building. Proceedings 1950, p. 60-63. Seattle, Engin. Expt. Sta., U. Washington, 1950. 288.9 N81

23012 UCHIDA, S. Jitsuyo tahata, sanrin sokuryo-ho [Practical surveying of the farm and woodlands]. Tokyo, Chikyu Shuppan, 1950. 163 p. 325 Uc4

23013 WILSON, C. Progress in agricultural engineering. Times Survey Brit. Agr. 1950:14. Oct. 1950. 10 T48

#### FARM MACHINES AND EQUIPMENT

23014 BAIL, A. Die bedeutung der handgeräte für die landwirtschaft. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:25-31. Sept. 1950. 18 D4822

23015 BARATTE, Les intempéries et la mécanisation. Acad. d'Agr. de France. Compt. Rend. 36:547. Oct. 11/18, 1950. 14 P215Bc

23016 BERWICK, E. J. H., and HAYNES, D. W. M. A report on a census of mechanical field equipment in use on estates in the Federation of Malaya, December, 1949. Malayan Agr. J. 33:144-154. July 1950. 22.5 F312

23017 BLASINGAME, R. U. New equipment at the Farm Show. Pa. Farmer 144:10, 25, 57. Jan. 13, 1951. 6 P383

23018 BODWELL, J. H. A modern orchard. New Eng. Homestead 123(23):20-22. Dec. 9, 1950. 6 N442  
Chiefly labor-saving equipment.

23019 BRITISH SUGAR CORPORATION. Report on mechanisation of the sugar beet crop in Great Britain during the year 1949. Peterborough, 1950. 16 p. 66.9 B772

23020 BURCH, E. C. The relationship between agricultural and industrial engineers. Hawaii. Sugar Technol. Rpt. 9:70-72. 1950. 65.9 H317

23021 BÜTEFISCH, E. G. Die politische und die unpolitische landmaschine. Landtechnik 5:718-719. Oct. 31, 1950. 58.8 L235

East and West Germany.

23022 CASHMORE, W. H. Survey of power on the land. Land Agents' Rec. 126:233. (Cont.) Nov. 20, 1950. 10 L222

23023 CATAMBAY, A. B. Mechanized corn culture. Philippine Agr. Engin. J. 1:17-19, 23, 36-38. First Q. 1950. 58.8 Ag88

23024 CORTIAENSEN, W. P. M. Agricultural mechanization in America. (In Dutch.) Zeeuwisch Landtbl. 38 (2046):5. Nov. 25, 1950. 12 Z2

23025 CROWE, G. B. Farm mechanization research in the South. Agr. Econ. Res. 3:1-7. Jan. 1951. 1 Ec7Agr

23026 DALMASSO, G. Is it possible to mechanize mountain grape culture? (In Italian.) Colt. e Glor. Vinic. Ital. 96:279-280. Oct. 31, 1950. 16 C72

23027 DELLENBACH, P., and LACOMBE, R. La démonstration de motoviticulture à l'École Nationale d'Agriculture de Montpellier. Prog. Agr. et Vitic. 1950: 309-314. Nov. 5/12, 1950. 14 P94

23028 DELPEREE, R. Pipes of polythene in the service of agriculture and horticulture. (In Flemish.) Cult. en Handel 16:659-660. Nov. 1950. 80 C892

23029 DENMARK. LANDØKONOMISKE DRIFTSBUR. Undersøgelser over landbrugets driftsforhold. Periodiske beretninger. IV. Mekanisering i landbruget 1949 [Farm management investigations. Periodical reports. IV. Mechanization of agriculture 1949]. København, 1950. 55 p. 11 D414P

23030 DENMARK. STATENS REDSKABSUDVALG. Arsberetning fra Statens Redskabsprover 1948-49. [Annual report of the State Equipment Tests 1948-49.] Denmark Statens Redskabsprover Beret 105, 90 p. 1950. 58.9 D41

23031 EVANS, D. H. The depreciation of farm machinery. Nottingham. U. Dept. Agr. Econ. Farm Mangt. Notes 1950(4):10-12. Autumn 1950. 281.9 N842

23032 EWART, K. Mechanisation of primary industry; trends and developments in Australia. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 3:166-171. Oct. 1950. 281.9 Au73

23033 FAHRINGER, F. Motorisierung der landwirtschaft. Oberösterreich. Landwirtschaft. 22(47):1-2. Nov. 22, 1950. 19 Ob23

23034 FUSSELL, G. E. Equipment then and now. Farmers Wk. [London] 33(22):80-81. Dec. 1, 1950. 10 F2226

How farming equipment has altered and developed since the sixteenth century.

23035 GILLING, T. Machines from many lands at Earl's Court; better British designs; more competition from Europe. Farmers Wk. [London] 33(23):45-47. Dec. 8, 1950. 10 F2226

23036 GORDON, A. Mechanized sugar cane culture. Philippine Agr. Engin. J. 1:39. First Q. 1950. 58.8 Ag88

23037 GORDON, W. R. Successful mechanised farming in the heart of the Karoo. Farmer's Wk. [Bloemfontein] 80:10-11. Nov. 8, 1950. 24 F225

23038 GRANVIK, B. A. On the standardization of agricultural machines and implements. (In Finnish.) Teho 1950(6):8-11. 20 T98  
English summary, p. 50.

23039 GT. BRIT. COLONIAL ADVISORY COUNCIL OF AGRICULTURE, ANIMAL HEALTH AND FORESTRY. Report of a survey of problems in the mechanization of native agriculture in tropical African colonies. Gt. Brit. Colon. Adv. Council Agr. Anim. Health & Forestry. P. 1, 123 p., 1950. 281.9 G793

23040 GÜNTERT, A. Der Bauer und die Maschine. Grüne 78:400-401. Apr. 14, 1950. 17 Sch9

23041 HAUBOLD, R. Die Entwicklung unserer Grundstoffindustrie—eine Voraussetzung für einen leistungsfähigen Landmaschinenbau. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:97-98. Oct. 1950. 18 D4822  
Russian Zone of Germany.

23042 HENTON, T. E. Electric power saves labor in handling sweet potatoes. Elect. on the Farm 24:12. Jan. 1951. 335.8 EL27

23043 HIROBE, T. Noyo kigu [Farm implements and machinery]. Tokyo, Chikyu Shuppan, 1949. 472 p. 58 H612

23044 HOCHKÖNIG, W. Ein vielfachgerät auf einem bergbauernhof. Österr. Landtech. 3:186-188. July 1950. 58.8 L236

23045 JUNKER, F. Farm mechanization. (In Danish.) Tidsskr. f. Landekon. 1950:540-549. Nov. 1950. 11 T43

23046 LAFOREST, G., and MAINE, M. La France est-elle un pays de grande propriété? Comment l'agriculture peut-elle s'équiper? Agriculture [Paris] 14:321-323. Nov. 1950. 14 Ag823

23047 LAGAUSIE, F. DE. Le rôle des C. U. M. A. [Coopératives d'Utilisation de Matériel Agricole] dans l'équipement de l'agriculture française. Agriculture [Paris] 14:303-307. Nov. 1950. 14 Ag823  
France.

23048 LEMONS, E. Speed spells profit to Oklahoma growers of machine-raised cotton. Farmer-Stockman 53 (12):15. Dec. 1950. 6 Ok45

23049 LORRAINE, P. L. The machine age on Swedish farms. Amer. Swedish Mon. 45:6-7, 22-23, 30. Jan. 1951. 286.8 Sw3

23050 MARIAS, C. R. LAS. On farm mechanization. Philippine Agr. Engin. J. 1:34-35. First Q. 1950. 58.8 Ag88

23051 MIALLET, A. Explosifs et plantations. Prog. Agr. et Vitic. 1950:377-382. Dec. 17/24, 1950. 14 P94

23052 MURDOCK, O. Machinery supply. (Sum.) Fruit & Veg. Rev. 12(9):19. Dec. 1950. 80 C1224

23053 OKSA, E. Ball bearings of agricultural machines. (In Finnish.) Teho 1950(7/8):15-17. 20 T98  
English summary, p. 50.

23054 OKSA, E. Servicing the ball-bearing of agricultural machines. (In Finnish.) Teho 1950(9):37-39. 20 T98

English summary, p. 58.



23055 OLIVEROS, S. B. Some tribulations of a mechanically inclined farmer. Philippine Agr. Engin. J. 1:28. First Q.1950. 58.8 Ag88

23056 REHRL, K. Landmaschinen in Frankfurt am Main. Österr. Landtech. 3:191-198. July 1950. 58.8 L236

23057 ROWELL, F. O. Experience with silo unloaders. Natl. Assoc. Silo Mfr. Proc. 38:101-106. 1950. 60.79 N21

Includes discussion.

23058 RUHNKE, F. Aufgaben der landtechnik im Fünfjahrplan. Deut. Landwirt. mit Mitt. der Deut. Landwirtsgesell. 1:115-118. Nov.1950. 18 D4822

Equipment in the Russian Zone of Germany.

23059 SAXON, E. A. Equipment and materials essential for rural production. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 3:147-152. Oct.1950. 281.9 Au73

Situation and outlook in Australia.

23060 SCHOPFLOCHER, R. Sencillo y original malacate. Chacra 21(241):56-57. Dec.1950. 9 C34

23061 STEINBERGER, A. Abladevorrichtung für ganze fuhren. Österr. Landtech. 3:228-229. Aug./Sept. 1950. 58.8 L236

23062 SUDRE, J. Un jour à la semaine de motoculture de Senlis. Potasse 24:171-173. Nov.1950. 57.8 P84

23063 TENEMBAUM, J. L. Concepto económico sobre mecanización agrícola bajo su aspecto funcional. Bolsa de Cereales, Buenos Aires. Rev. 37(1971):5-7,14, 26-28. (Cont.) Nov.9,1950. 287 B866

23064 TULL, Power on the land. Power Farmer 5 (6):30-31. Dec.1950. 58.8 P872

23065 VADÉ, S. Senlis 1950, carrefour de la motoculture mondiale. Vie à la Campagne 39:377-381. Nov. 1950. 80 V67

23066 WARDROP, G. Modern trend is modification; there is a call to all makers for simple sturdy designs. Farmer & Stock-Breeder 64:3212-3213. Dec.12,1950. 10 F228

Farm equipment.

23067 WARDROP, G. What to see at Smithfield; some of the machines which will be on view for the first time at Earls Court this year. Farmer & Stock-Breeder 64:3044-3045. Nov.28,1950. 10 F228

23068 WARDROP, G. The year among equipment. Farmer & Stock-Breeder Ybk. 1951:81-97. 49 F22

Great Britain.

23069 WEST, W. J. Value of farm mechanization. Indian Engin. 128:80-81. Aug.1950. 290.8 In2

23070 WOLF, L. J. The hydraulic types of variable-speed unit. Agr. Engin. 31:615-616. Dec.1950. 58.8 Ag83

Discussion by M. Ronning.

#### Animal Husbandry Equipment

23071 BICE, C. M. Build a chicken brooder. Hawaii Farm & Home 13(11):36-37,40. Nov.1950. 25 H3191

23072 BODWELL, J. H. Here it is! An automatic egg collector. Elect. on the Farm 24:4-5. Jan.1951. 335.8 EL27

23073 CARSE, G. M. D. Self-feeders for pigs save labour and reduce costs. Agr. Gaz. N. S. Wales 61:591-593. Nov.1,1950. 23 N472

23074 CLARK, M. Cattle feeder deluxe. Amer. Hereford J. 41(17):118,120. Jan.1,1951. 43.8 Am32

23075 FUFÁEV, A. Mechanization of livestock raising farms in the zone of Bazhenovskaya Machine-Tractor Station. (In Russian.) Mashinno-Traktornaya Sta. 10(8):32-34. Aug.1950. 58.8 M11

23076 GILMAN, W. Motors run this chicken farm. Elect. on the Farm 23(10):7-10. Dec.1950. 335.8 EL27

23077 HARPER, J. A., and BRIEBELER, W. L. OSC finds laying cages work well with turkeys; designed for research use, the cages cut labor. Turkey World 25(12): 11,124-125. Dec.1950. 47.38 T84

At Oregon State College Poultry Department.

23078 HART, F. H. Hatching chickens in an agitated-air incubator. Agr. Gaz. N. S. Wales 61:541-546. (Concl.) Oct.2,1950. 23 N472

23079 JARVIS, J. W. Inexpensive watering trough made from log for use on range. Mont. Wool Grower 25: 11. Jan.1951. 45.8 M762

23080 JENSEN, J. M. Practical sanitation in caring for milking machines. Mich. Agr. Expt. Sta. C. B. 218, 32 p. Ref. Oct.1950. 100 M585

23081 KRISTENSEN, J. M. Caustic soda the best cleaning agent for milking rubber. New Zeal. J. Agr. 81: 300-301. Oct.1950. 23 N48J

23082 LESLIE, S. The secret of machine milking. Milk Bd. J. 1:567-569. Oct.16,1950. 44.8 M5934

23083 MCINTYRE, A. C., and MIRANTZ, M. Portable wood chippers have variety of uses. Soil Conserv. 16:123-126. Jan.1951. 1.6 So3S

Wood chips used for dairy bedding.

23084 MCIVER, W. L. Household poultry keepers need proper henhouse equipment. New Zeal. J. Agr. 81: 447. Nov.1950. 23 N48J

23085 MORRIS, C. S., and COLEMAN, E. L. The treatment of milking machine clusters by the wet storage method. Dairyman 68:29,31. Jan.1951. 44.8 D1426

23086 O'BRIEN, H. R. Low-cost lamb feeding; bunks, feeders and grinding setups you can use. Country Gent. 121:22. Jan.1951. 6 C833

23087 OKSA, E. The standardization of horseshoes and shoeing implements. (In Finnish.) Teho 1950(10):23-27. 20 T98

English summary, p. 66.

23088 PARKIN, I. E. Vacuum lines need cleaning. Elect. on the Farm 24:8-9. Jan.1951. 335.8 EL27

Milking machines.

23089 PESSI, V. Machinery in dairy farming and dairying. (In Finnish.) Teho 1950(9):11-13. 20 T98

English summary, p. 58.

23090 PORRES, C. A. La avicultura y los labradores: accesorios del gallinero. Agr. Burgalés 17(192):8-9. Dec.1950. 15 Ag86

23091 RICE, L. M. Western Colorado saddles. West. Horseman 15(12):18-19,44-46. Dec.1950. 42.8 W522

23092 RÖMER, R. R. Das huhn im bauern- und im siedler-betrieb. Stuttgart, Ulmer, 1950. 72 p. 47 R66

23093 TINDALL, C. Used 730 times a year; modern dairy equipment saves time in feeding and milking; also improves quality and price. Mo. Rur. 91(21):10,26. Nov.11,1950. 6 R8891

23094 TURNER, C. W. Machine milking efficiency—as influenced by the normal formation of the cow's udder. Surge News 1950:1-4. Fall 1950. 44.8 Su7

23095 WHETSTONE, R., and YAW, W. H. Carrier-track feed bunks. Country Gent. 120(12):26. Dec.1950. 6 C833

Labor saving in feeding cattle and calves.

23096 WHITTLESTON, W. G. Vacuum control on the milking machine. New Zeal. J. Agr. 81:439-440. Nov. 1950. 23 N48J

#### Cultivation and Tillage Equipment

23097 BOXLER, B. Bodenbearbeitungswerkzeuge und gespanntbodenbearbeitung. Masch. in der Landwirt D1, 72 p. Oct.1949. 58 M37

23098 CULLAR, J. Sub-surface tillers. Purdue Agr. 42(3):4,14. Dec.1950. 6 P97

23099 EMRICH. Umgraben wird zur spielerel. Obstbau 69:159. Oct.1,1950. 80 Ob73

Equipment.

23100 ENGELHARD, J. Il faut distinguer entre le labour profond et la culture profonde. Motorisation Agr. 5:451-455. Sept.1950. 58.8 M85

23101 GUILLOU, R. Engineering aspects of tillage in Hawaii. Hawaii. Sugar Technol. Rpt. 9:72-77. 1950. 65.9 H317

23102 HORYNOVÁ, A. The gardening saws and their serviceability from the standpoint of pomological practice. (In Czech.) Českoslov. Akad. Zeměděl. Věst. 24: 435-440. Oct.1950. 19.5 C332

23103 KHOROSHILOV, A. Cultivator for tilling hard soils. (In Russian.) Mashinno-Traktornaya Sta. 10(8):53-56. Aug.1950. 58.8 M11

23104 KHOROSHILOV, A. D. Utilization of new land for agricultural crops and mechanization of this process. (In Russian.) Sovet. Agron. 8(9):37-44. Sept.1950. 20 So84

Chiefly on tractor plows.

23105 MAIER, E. A. "What is the answer?" notes on modern cultural machinery. Sugar J. 13(7):19-21,30-31. Dec.1950. 65.8 Su391

23106 PICKARD, G. E. New tractor-mounted mulch tillage planter may offer better erosion control for the Cornbelt. Crops & Soils 3(3):27. Dec.1950. 6 W55

23107 PROSSER, D. S. Extensible rig for pulling cultivating implements under citrus trees. Citrus Mag. 13 (5):19. Jan.1951. 80 C498



- 23108 REYZNER, A. K., and BEN'KOVSKIY, B. F. Mechanized planting and cultivation of grapes. (In Russian.) Vinodel. i Vinograd. SSSR. 10(8):41-44. Aug. 1950. 95.8 V77
- 23109 RIFFARD, E. M. La girofle, nouvelle charrue polysocs perfectionnée. Rev. Hort. de l'Algérie 54:205-206. June/July 1950. 87 R32
- 23110 ROBINSON, E. N. Power gardening and power composting with the model T roto-ette. Special Ed. Noroton, Conn., Country Bookstore, c1950. 48 p. 58 R56
- 23111 SCHOFER, G. Die art des pflügens. Landtechnik 5:753-755. Nov. 15, 1950. 58.8 L235
- 23112 SYCHEV, P. P. Mechanization of winter vineyard protection. (In Russian.) Vinodel. i Vinograd. SSSR. 10(8):44-45. Aug. 1950. 95.8 V77
- Plows for covering vines with dug up soil.

#### Fertilizer and Seed Distributors

- 23113 BOSIAN, G. Neue pflanzgeräte im weinbau. Weinbau 5:390-391. Sept. 17, 1950. 390.8 W432
- 23114 MCVICKAR, M. H. Plant food takes on wings. Crops & Soils 3(4):20-21. Jan. 1951. 6 W55
- 23115 NEDASHKOVSKIY, A. N. How to use properly the SLN-1 tree planting machines. (In Russian.) Les i Step' 2(8):49-54. Aug. 1950. 99.8 L565
- 23116 SMITH, J. G. Hale Center hitches to little red wagon; that's what the Future Farmers call their sparkling, new grass seed drill; under a brand new management plan, the implement promises FFA a more effective role in Texas agriculture. Future Farmer 23(5):14-15. Dec. 1950. 4 F983
- 23117 STAGGS, E. Stretching Lehman's love grass. Ariz. Cattlelog 6(2):54-56. Oct. 1950. 43.8 Ar42
- Equipment for seed planting.
- 23118 TALBOYS, B. E. Bulk handling of wet lime. New Zeal. Dairy Exporter 26(6):6-7, 9-10. Dec. 1950. 44.8 N484
- Loading and spreading equipment.

#### Harvesting Equipment

- 23119 ANDERSSON, Y. English potato harvester at work. (In Swedish.) Lantmannen 34:910-912. Nov. 25, 1950. 11 L234
- 23120 ANDERSSON, Y. Machinery for harvesting green fodder and silage preparation in England. (In Swedish.) Lantmannen 34:871-872. Nov. 11, 1950. 11 L234
- 23121 BEATTIE, C. Mobile hop picking machine. Power Farmer 5(6):35. Dec. 1950. 58.8 P872
- 23122 HELY, F. W. Harvesting medic seed with a sheepskin roller. Agr. Gaz. N. S. Wales 61:560-562. Nov. 1, 1950. 23 N472
- 23123 HOOGLAND, E. J. A. Mechanical harvesting of beets. (In Dutch.) Nieuwe Veldbode 17:187-188. Dec. 14, 1950. 12 V542N
- 23124 JOUTSENINNA, U. A practical sugar-beet digger. (In Finnish.) Teho 1950(9):19-20. 20 T98
- English summary, p. 58.
- 23125 KALVERKAMP, U. D. The annual English demonstration of beet harvesting equipment. (In Dutch.) Nieuwe Veldbode 17:135-136. Nov. 23, 1950. 12 V542N
- 23126 KOHLER, W. Werft den messerbalken zum alten eisen! Landtechnik 5:733-735. Oct. 31, 1950. 58.8 L235
- Mowing equipment.
- 23127 MATTHAEAS, K. Die wirkungsweise eines halmbrechers. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:214. Dec. 1950. 18 D4822
- Harvesting equipment for green feed.
- 23128 OHLSON, N. E. Harvesting sugar beets with easy and inexpensive machinery. (In Swedish.) Lantmannen 34:848-849. Nov. 4, 1950. 11 L234
- 23129 POLIAKOV, L. Machines for harvesting corn. (In Russian.) Mashinno-Traktornafä Sta. 10(8):50-53. Aug. 1950. 58.8 M11
- 23130 REHRL, K. Motormäher und schleppermäher. Österr. Landtech. 3:199-201. July 1950. 58.8 L236
- 23131 ROSE, O. Beet harvesting progress; within a few years at least half the British crop may be gathered mechanically but many problems remain. Farmer & Stock-Breeder Ybk. 1951:76-80. 49 F22
- 23132 SCHWARZ, H. Zuckerrübenernteverfahren—gestern und heute. Landtechnik 5:737-740. Oct. 31, 1950. 58.8 L235
- 23133 SCOTT, D. F. Care of farm mower. New Zeal. J. Agr. 81:433, 435, 437-438. Nov. 1950. 23 N48J

- 23134 WARD, J. M., JONES, D. L., and PAULSON, W. E. Advent of mechanical harvesting tends to shorten ginning season. Cotton Digest 23(15):6. Dec. 30, 1950. 286.82 C822
- 23135 WEDDERSPOON, T. A. Lifting potatoes by machine. Times Survey Brit. Agr. 1950:6. Oct. 1950. 10 T48
- 23136 WOLD, R. L. H.S.P.A. (Duncan) one-row side cutter—windrower cane harvester at Lihue Plantation Company. Hawaii. Sugar Technol. Rpt. 9:58-65. 1950. 65.9 H317

#### Land Clearing Equipment

- 23137 CRAWFORD, A. Clearing 10 acres of gorse [Ulex] a day; tractor-operated grubber. New Zeal. Farmer 71(17):5. Oct. 12, 1950. 23 N484
- 23138 CRISWELL, J. Highball for Hungry Horse. Reclam. Era 37:2-3, 17. Jan. 1951. 156.84 R24
- Land-clearing method and equipment.
- 23139 DOMANTAY, F. S. Agricultural land clearing. Philippine Agr. Engin. J. 1:29. First Q. 1950. 58.8 Ag88
- 23140 HUTCHISON, J. E., and WHITLOW, S. Hewing a pasture out of a wilderness. Prog. Farmer, Tex. Ed. 65(12):15, 90. Dec. 1950. 6 T311
- Includes land clearing equipment.
- 23141 VOEVODA, D. K. Use of bulldozers in land clearing. (In Russian.) Lesn. Khoz. 3(6):61-64. June 1950. 99.8 L5622
- 23142 VUKOLOV, A. Organizing the work of bulldozers and graders. (In Russian.) Mashinno-Traktornafä Sta. 10(8):16-21. Aug. 1950. 58.8 M11
- In the construction of ponds and reservoirs.

#### Processing Equipment Used on the Farm

- 23143 ANDLINGER, H. Wie hat sich der kühlschrank bewährt? Österr. Landtech. 3:201-202. July 1950. 58.8 L236
- 23144 BANTA, E. S. The brush chipper saves labor. Amer. Fruit Grower 70(12):16. Dec. 1950. 80 Am85
- 23145 BONTREGER, J. World War I veteran tells of threshing and farming in France. Iron-Men Album Mag. 5(3):4-5. Jan./Feb. 1951. 58.8 F2293
- Chiefly equipment.
- 23146 BRICKWOOD, H. Maintenance of the binder. Power Farmer 5(6):75-76, 79. (To be cont.) Dec. 1950. 58.8 P872
- 23147 BURKS, C. Safe milk for the kiddies; home pasteurizer provides low cost protection. Elect. on the Farm 23(10):21-22. Dec. 1950. 335.8 EL27
- 23148 CARDWELL, A. P. Bright prospects for lucerne drying in South Africa; artificial dehydration yields superior feed and permits processing into mixtures or as pellets and cubes. Farmer's Wk. [Bloemfontein] 80:10-11, 13. Oct. 18, 1950. 24 F225
- Chiefly equipment.
- 23149 CHEATHAM, R. J. New fiber cutter extends potential uses for cotton. U. S. Agr. Res. Admin. Res. Achvt. Sheet 135(C), 2 p. Nov. 1950. 1.98 R31
- 23150 HERBSTHOFER, F. Dreschmaschinen auf der DLG-wanderausstellung. Österr. Landtech. 3:198-199. July 1950. 58.8 L236
- 23151 HOOSER, F. C., and WILTON, R. C. All-electric pasteurizer fills the bill. Elect. on the Farm 24:6-7. Jan. 1951. 335.8 EL27
- 23152 HURST, W. M., WHITE, H. D., and MCCRANEY, R. J. Pea and bean huller for use in locker and community canning plants. U. S. D. A. C. 856, 10 p. Nov. 1950. 1 Ag84C
- 23153 JENSEN, T. M. Pasteurization of milk; guide to premises and equipment for pasteurizing dairies. Victoria. Dept. Agr. J. 48:427-432. Sept. 1950. 23 V66J
- 23154 KANZ, N. Erfahrungen mit dem wandreuter. Österr. Landtech. 3:224-225. Aug./Sept. 1950. 58.8 L236
- 23155 KUZ'MIN, V. Hand-operated tomato grinder. (In Russian.) Mashinno-Traktornafä Sta. 10(8):56-57. Aug. 1950. 58.8 M11
- For collective and state farms.
- 23156 MARTIN, R. With modern crop driers you can make hay even if the sun doesn't shine. Farmer-Stockman 53(12):10, 23. Dec. 1950. 6 Ok45
- 23157 MEIJERS, P. G. The drying room and alfalfa. (In Dutch.) Groninger Landbbl. 28(49):8. Dec. 16, 1950. 12 G892
- Also in Gelders Landbbl. 13(49):6. Dec. 16, 1950. 12 G282
- 23158 SLADE, R. E. Grass drying on the farm. Times Survey Brit. Agr. 1950:3. Oct. 1950. 10 T48



23159 STEDRONSKY, V. L., and SHAW, C. S. The flow-through lint-cotton cleaner. U. S. D. A. C. 858, 30 p. Nov.1950. 1 Ag84C

23160 U. S. RURAL ELECTRIFICATION ADMIN. Electric home pasteurizers. Rev. Washington?1950. 9 p. 1.933 EL237

23161 WILHELMSON, R. Use of electric motor in threshing. (In Swedish.) Lantmannen 34:751-753. Sept. 30,1950. 11 L234

23162 WIRTH, J. Die rebholz-hackmaschine. Weinbau 5:292. Aug.6,1950. 390.8 W432

#### Repair, Maintenance, and Construction Equipment

23163 HIRSCH, K. Die aufgaben der kontrolle in Zentrale für Landtechnik. Deut. Landwirt. mit Mitt der Deut. Landwirtgesell. 1:93-95. Oct.1950. 18 D4822

Equipment maintenance in the Russian Zone of Germany.

23164 HOUSER, Z. L. Make it on the farm! This farmer produces by using only "junk." Better Farms 10(5):6,10. Nov.1950. 6 B462

A farm shop and its equipment.

23165 KRONENBERGER, H. Wie steht es mit der ersatzteilversorgung? Deut. Landwirt. mit Mitt der Deut. Landwirtgesell. 1:84-85. Oct.1950. 18 D4822

For machinery in the Russian Zone of Germany.

23166 MCCREIGHT, M. G. Winter time is shop time; organize farm shop work. Nebr. Elect. Farmer 4(12):5. Dec.1950. 335.8 N27

23167 ROBERTSON, D. S. Detergents and chemical sterilisers. Queensland Prod. 32(11):6-7. Sept.13,1950. 23 Q35

23168 STODDARD, H. T. To save wear and tear on yourself tune up your tools. Gard. & Gard. Chron. 54(8): 68-72. Dec.1950. 80 G1632

#### Spraying and Dusting Equipment

23169 ANDERSON, E. D. Sprayers and dusters. Fruit & Veg. Rev. 12(9):16. Dec.1950. 80 C1224

23170 BUCHHOLTZ, K. P. A carbon dioxide powered sprayer for small plots. Agron. J. 42:614. Dec.1950. 4 Am34P

23171 GALLWITZ, Zwei neue spritzgeräte für den weinbau. Landtechnik 5:758-759. Nov.15,1950. 58.8 L235

23172 MOLNAR, L. Importance des jets à courant aérien du pulvérisateur. (In Hungarian.) Agrártudomány 2:524-528. Sept.1950. 19 Ag83

French summary.

23173 POTTS, S. F., and others. Construction and operation of ground equipment for applying concentrated sprays. Conn. (State) Agr. Expt. Sta. C. 178,35 p. Oct. 1950. 100 C76St

P. Garman, R. B. Friend, and R. A. Spencer, joint authors.

23174 STREETER, J. R. Better sprayers, more deadly chemicals are helping to make big harvests dependable. Farmer-Stockman 53(12):9. Dec.1950. 6 Ok45

23175 TERPSTRA, P., FRANSEN, J. J., and KERSSEN, M. C. Experiments on spraying technique with the aid of hormone weedkillers. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:805-812. Nov.1950. 84 N384

English summary.

23176 VANDECRUYS, A. A new technical improvement, that will effect great savings in fruit culture: fixed spray pipe lines. (In Flemish.) Cult. en Handel 16:737-739. Dec.1950. 80 C892

23177 WEPFER, K. Spritzgeräte für die schädlingbekämpfung. Grüne 78:427-454. Apr.21,1950. 17 Sch9

23178 ZOBRIST, L., GÜNTART, E., and HOFFMANN, E. Nebelblaser oder motorspritze im obstbau. Schweiz. Z. f. Obst- u. Weinbau 59:492-497. Dec.23,1950. 80 Sch9

#### Vehicles

23179 ANIANSSON, G., and NOREN, O. Effects of tires on the power requirements of wagons. (In Swedish.) Lantmannen 34:830-831. Oct.28,1950. 11 L234

23180 ANIANSSON, G., and NOREN, O. Sugar beet transportation with direct driven carts. (In Swedish.) Lantmannen 34:927-930. Dec.2,1950. 11 L234

23181 ARKEMA, P. W. B. Aspects of agricultural wagons. (In Dutch.) Nieuwe Veldbode 17:152-153. Nov.30,1950. 12 V542N

23182 AUBERT, P. La ristourne sur le carburant agricole. Motorisation Agr. 5:449-450. Sept.1950. 58.8 M85

23183 BERGLUND, N. A new excellent tractor film. (In Swedish.) Lantmannen 34:750-751. Sept.30,1950. 11 L234

23184 BONDON, J. A propos de l'achat d'un tracteur. Motorisation Agr. 5:445-448. Sept.1950. 58.8 M85

23185 CARBONARO, M. L'alcool carburant. Indus. Agr. et Aliment. 67:375-379. Aug./Oct.1950. 383 As7

English summary.

23186 CARENA, A. World trends in tractor type. Power Farmer 5(6):36-38. Dec.1950. 58.8 P872

23187 CROMER, C. A. F.F.A. tractor driving contest shows promise in Nebraska. Agr. Educ. Mag. 23: 160-161. Jan.1951. 275.8 Ag8

23188 CUNNINGHAM, G. Now they're using bottled gas in tractors. Iowa Farm & Home Register 1950:10-H. Dec.3,1950. 6 Io94

23189 DENMARK. STATENS REDSKABSUDVALG. Prøve med havebrudstraktorer m. m. 1946-49. [Tests with garden tractors, etc., 1946-49.] Denmark.Statens Redskabsprøver Beret. 104,114 p. 1950. 58.9 D41

23190 DUPONT, L. Inconvénients de la motoculture; remèdes à y apporter. Soc. des Agr. d'Algérie. B. 93: 238-248. July 1950. 24 So1

Problems involved in tractor utilization in France.

23191 EVANS, R. H. Pneumatic tyres for farm implements. Power Farming Austral. & New Zeal. 59 (10):27,29,31,81. Oct.1950. 58.8 P87

23192 EVERETT, H. E. Tractor demand to continue heavy in '51. Automotive Indus. 104(2):42-43,146. Jan.15, 1951. 291.8 Au82

23193 FITZGERALD, P. M. From field to mill by Tournahauler. Hawaii. Sugar Technol. Rpt. 9:49-53. 1950. 65.9 H317

Cane transportation.

23194 FOLTNEK, H. Was leistet mein traktor? Fingerzeige zur wirtschaftlichen verwendung des traktors. Österr. Landtech. 3:214-216. Aug./Sept.1950. 58.8 L236

23195 FONSECA, A. X. DA. A tractor to every farm? (In Portuguese.) Chacaras e Quintais 82:602-604. Nov.15,1950. 9.2 C34

Brazil.

23196 GIBERTI, H. Argentina's tractor needs. Rev. River Plate 108(3055):17-21. Oct.31,1950. 286.8 R32

23197 HENARES, H. G. Farm mechanization and surplus tractors. Philippine Agr. Engin. J. 1:27-28. First Q. 1950. 58.8 Ag88

23198 HERVE, J. Libres propos sur les tracteurs allemands. J. de la France Agr. 6:1172. Oct.20/26,1950. 14 J829

23199 HINE, H. J. Tractors on the farm; their choice, use and maintenance. Ed. 4. London, Farmer and Stock-Breeder,1950. 204 p. 58 H58T

23200 HOARE, E. R. The tractor and horticulture. Fruit-Grower 2869:809-810. Dec.21,1950. 80 F941

Similar title in Power Farmer 5(6):43-45. Dec.1950. 58.8 P872

23201 HORN, L. J. Test flight of agricultural airplane assures a new implement for the farmer. Tex. Engin. Expt. Sta. News 1(4):3-7. Dec.1950. 290.9 T31N

23202 IMPLEMENT & TRACTOR. Red tractor book. 35th annual edition, 1950-51. Kansas City, Mo.,1950. 524 p. 58 Im73

Includes Nebraska tractor tests.

23203 JOHNSON, J. L. Air tyres in agriculture. Westralian Farmers Co-op Gaz. 19:213-216. Oct.1950. 280.28 W522

23204 KUVSHINOV, I. A. Increasing KD-35 tractor's efficiency in plowing for shelterbelts. (In Russian.) Les i Step' 2(8):55-59. Aug.1950. 99.8 L565

23205 LUNDE, R. N., and KIRK, D. E. A tilting-bed implement trailer. Oreg. Agr. Expt. Sta. C. Inform. 489, 2 p. Nov.1950. 100 Or3C

23206 MALJUGIN, T. T. The new [KHTZ-7] orchard and garden tractor—for silvicultural work. (In Russian.) Les i Step' 2(8):63-64. Aug.1950. 99.8 L565

23207 MARSHALL, L. M. Mobile power on the farm. Estate Mag. 50:454-455. Nov.1950. 10 Es8

Tractor designs.

23208 MASUDA, S. Torakuta toriatsukai-ho [Method of tractor-treatment]. Tokyo,Sankaido,1949. 1v. 58 M39



- 23209 OKSA, E. Load limits for rubber wheeled agricultural carriages. (In Finnish.) *Teho* 1950(7/8):38-40. 20 T98  
English summary, p. 50.
- 23210 PALLOTTA, F. Criteria for the selection of a tractor. (In Italian.) *Terra e Sole* 97:304-306. Sept. 1950. 16 T273
- 23211 PICARD, R. Petite vitesse & prise de force. *Culture* 24:5-9. Nov./Dec. 1950. 14 C894  
In vehicles, including tractors.
- 23212 RIES, L. W. Der einmann-leiterwagen. *Württemberg. Wchnbl. f. Landwirt.* 117:1009-1010. Nov. 4, 1950. 18 W96
- 23213 ROZET, I. New units of S-80 tractor. (In Russian.) *Mashinno-Traktornaya Sta.* 10(8):46-49. Aug. 1950. 58.8 M11
- 23214 SCOTTON, M. The triangular traction bar. (In Italian.) *Humus* 6(9):32. Sept. 1950. 16 H88  
Used in tractors.
- 23215 SENKE, W. Erfahrungen mit schlepper-gemeinschaften. *Österr. Landtech.* 3:181-184. July 1950. 58.8 L236
- 23216 SIECK, K. A. Save tractor fuel. (In Danish.) *Tolvmandsbladet* 22:333-334, 339-340. Nov. 1950. 11 T58
- 23217 SPALDING, W. T. The aerial tramway system of transporting cane at Hutchinson Sugar Plantation Company. *Hawaii. Sugar Technol. Rpt.* 9:66-69. 1950. 65.9 H317
- 23218 STUPAK, I. Effect of air purifier operation on deterioration of the piston group. (In Russian.) *Mashinno-Traktornaya Sta.* 10(8):43-45. Aug. 1950. 58.8 M11  
Dust penetration into tractor engine.
- 23219 TEODORO, A. L. On the performance characteristics of an alcohol-gasoline mixture (N.D.C.-21), a substitute fuel for commercial gasoline. *Philippine Agr. Engin. J.* 1:9-16, 19. First Q. 1950. 58.8 Ag88
- 23220 TEODORO, A. L. Utilization of alcohol-gasoline blends as agricultural motor fuels. *Philippine Agr. Engin. J.* 1:65-67. Second Q. 1950. 58.8 Ag88
- 23221 THIBON, A. Les tracteurs dans le monde; l'essor prodigieux de la motoculture; ses causes. *Motorsation Agr.* 5:435, 437, 439, 441, 443. Sept. 1950. 58.8 M85
- 23222 THE TRACTOR field book with power farm equipment specifications, 1950. Chicago, 1950. 432 p. 58 T672
- 23223 WALKER, P. Teach skill and safety with a farm tractor rodeo. *Agr. Educ. Mag.* 23:128-129. Dec. 1950. 275.8 Ag8
- FARM STRUCTURES AND RURAL HOUSING**
- 23224 CHRISTENSEN, E. J. Planning the Nebraska farmstead. VIII. Production buildings. *Nebr. Elect. Farmer* 4(12):6. Dec. 1950. 335.8 N27
- 23225 CORWIN, P. Giant \$1,500,000 coliseum to exhibit Alabama wares; state, county and city support given in project to build for Alabama a show arena to benefit agriculture and industry alike. *South. Livestock J.* 10(6):38, 68. Jan. 1951. 43.8 F66A
- 23226 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. AGRICULTURAL LAND SERV. Fixed equipment of the farm; papers read at the Conference held in Winchester, on February 8 and 9, 1950. London, Stationery Off., 1950. 71 p. 296 G7932  
Buildings and other equipment.
- 23227 RENBORG, U. Building costs in agricultural planning. (In Swedish.) *Sweden. Lantbrstvr. Meddel. Ser. C: Rationaliseringsavd.* 5:56-67. 1950. 11 Sw3Mr
- 23228 SPRAGUE, D. C., and EAKIN, W. E. Window insulation and solar orientation of farm structures. *Agr. Engin.* 31:607-610, 613. Dec. 1950. 58.8 Ag83
- 23229 WOOD, P. New buildings from old; use this simple low-cost conversion method. *Dairy Farmer [Ipswich]* 23(12):15. Dec. 1950. 44.8 D1414
- Animal Shelters and Animal Service Buildings**
- 23230 BELGIUM. COMMISSION DU GENIE RURAL. Les étables pour vaches laitières. *Rev. de l'Agr.* 3:1153-1178. Nov. 1950. 13 R322  
English summary.
- 23231 BLACK, D. Better buildings for pigs; wide central cartway a feature of houses which have stood the test of time for farrowing and fattening large numbers. *Farmer & Stock-Breeder Ybk.* 1951:63-66. 49 F22
- 23232 BLACKWELL, H. L. Build your [poultry] house on a firm foundation. *Mod. Poultry Keeping* 63:527. Nov. 29, 1950. 47.8 Eg3
- 23233 BOWMAN, D. I. Hygiene in hand-milking sheds supplying factories. *New Zeal. J. Agr.* 81:465, 467-468. Nov. 1950. 23 N48J
- 23234 BRANN, V. H. Portable poultry houses for young stock. *Agr. Gaz. N. S. Wales* 61:598-602. Nov. 1, 1950. 23 N472
- 23235 BULLIS, K. L. Disinfection of poultry houses. *Grandin Farmer* 1950(1):1-2. Oct. 1, 1950. 6 C763
- 23236 CAMPOS, A. C. The use of the sun porch for laying pullets. *Philippine Agr.* 33:197-202. Jan./Mar. 1950. 25 P542
- 23237 CARTER, D. G. Four most-used hoghouses. *Capper's Farmer* 62:18, 33-34. Jan. 1951. 6 M693
- 23238 COLBY, H. N., and WARREN, R. Three-story 48' poultry house. *N. H. Agr. Col. Ext. Poultry Housing Ser.* 3, 3 p. June 1950. 275.29 N452P
- 23239 DOWNING, C. G. E. Ventilation keeps the cows healthy. *Farmer's Mag.* 47(12):8, 28-29. Dec. 1950. 7 C165
- 23240 DUDLEY, A. Finish your stable. *West. Horseman* 15(12):12-13, 39-41. Dec. 1950. 42.8 W522
- 23241 DUNCAN, J. E. Design and construction of sheep-drafting yards. *New Zeal. J. Agr.* 81:129, 131-135, 137, 139-140. Aug. 1950. 23 N48J
- 23242 ENOMOTO, M. Keisha no tatekata [How to build the hen-house]. Tokyo, Taibun-kan, 1950. 109 p. 47 En6
- 23243 GOODMAN, A. M. Homes for laying hens. *N. Y. Agr. Col. Cornell Ext. B.* 451, rev., 63 p. Nov. 1950. 275.29 N48E
- 23244 GORDON, G. E. Shades for dairy cattle. *Milk Bd. J.* 1:618-619. Nov. 15, 1950. 44.8 M5934
- 23245 GROVES, D. E. New Crocker barn has built-in fire protection. *Ohio Farmer* 206(10):12-13. Nov. 18, 1950. 6 Oh3
- 23246 HALPAAP. Bringt eure stallungen in ordnung! Unser Milchvieh Ausg. B/C 2(9):3. Sept. 1950. 43.8 Un72  
For cattle.
- 23247 HECKL, R. Die wärmebilanz im stall. Ohne geordneten wärmehaushalt keine wirksame lüftung. *Österr. Landtech.* 3:226-228. Aug./Sept. 1950. 58.8 L236
- 23248 HICKISH, H. W. Mechanical ventilation for poultry houses. *New Eng. Homestead* 123(23):16. Dec. 9, 1950. 6 N442
- 23249 HOFF, P. R. You can have good ventilation. *Broiler Growing* 2:15, 22, 24. Jan. 1951. 47.8 B782  
In broiler houses.
- 23250 KELLY, C. F., BOND, T. E., and ITTNER, N. R. Thermal design of livestock shades. *Agr. Engin.* 31:601-606. Ref. Dec. 1950. 58.8 Ag83
- 23251 KOLL, F. Verbesserung der dänischen schweineaufstallung durch anordnung von doppelten buchtentürn. *Österr. Landtech.* 3:184-185. July 1950. 58.8 L236
- 23252 KORENEV, P. D. Problems of [building] construction on the Karakul sheep raising state farms. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(3):3-9. May/June 1950. 49 K14
- 23253 LAING, A. D. M. G. Shearing shed hygiene. *New Zeal. J. Agr.* 81:345. Oct. 1950. 23 N48J
- 23254 LEWIS, F. C. You can brood on clean ground with this portable brooder house. *Turkey World* 25(12):20-21, 124. Dec. 1950. 47.38 T84
- 23255 MAITS, B. The right way to remodel your barn. *Country Gent.* 120(12):32-33, 63, 65. Dec. 1950. 6 C833
- 23256 NEW ZEALAND. DEPT. OF AGRICULTURE. LIVESTOCK DIV. Piggery layout. Housing plans and facilities for New Zealand farms. *New Zeal. Dept. Agr. B.* 334, 40 p. 1950. 23 N48Bu
- 23257 NORDBØ, H. American barns. (In Norwegian.) *Buskap og Avdrått* 1950(4):6-9, 49-50. 49 B96
- 23258 NORTH, A. D. Pig housing. *Victoria. Dept. Agr. J.* 48:459-460. Oct. 1950. 23 V66J
- 23259 OSSE, L. Rabbit houses. (In Portuguese.) *Seleç. Agr.* 5(54):45-47. Oct. 1950. 9.2 Se4
- 23260 RAIMO, H. F. Make money raising chickens; a "shelter" plant for 100 layers. (In Portuguese.) *Rev. dos Criadores* 21(8):36-38. Aug. 1950. 43.8 R32
- 23261 REIFF, H. Paved barnlots—reasonably inexpensive, easy to clean, durable. *Purdue Agr.* 42(2):7, 14. Nov. 1950. 6 P97



- 23262 ROSENKRANZ. Brauchen wir scheunen? Deut. Landwirt. mit Mitt. der Deut. Landwirtschafts. 1: 92-93. Oct.1950. 18 D4822  
Russian Zone of Germany.
- 23263 SCHINAGL, J. F. Milking parlors planned for western dairies. West. Farm Life 53(Annu. Livestock Rev. 1951):159-160. Jan.1,1951. 6 R153
- 23264 SCHULZ, W. G. Cow-a-minute milking parlor. West. Dairy J. 7(3):12,37-38. Jan.1,1951. 44.8 W524
- 23265 SIEBOLD, F. Gesunde ställe-gesunde schweine. Landwirt. Jahrb. f. Bayern 27(5/6):100-113. Sept./Oct.1950. 18 L24
- 23266 SINNARD, H. R., EWALT, H. P., and HUBER, M. G. Dairy buildings. Oreg. State Col. Ext. B. 711, 19 p. Nov.1950. 275.29 Or32B
- 23267 STACEY, C. Winter laying in slatted-floor houses. Poultry [London] 107:458. Dec.5,1950. 47.8 P869
- 23268 STEVENSON, J. H. F. Mink breeding pen. Brit. Fur Trade 32:488. Dec.1950. 412.628 B77
- 23269 U. S. S. R. SEL'KHOZSTROÏPROEKT. Korovnik dlia fermy na 80 korov [A cow barn for a farm of 80 cows]. U.S.S.R. Sel'khozstroïproekt. Tipovoi Proekt 0051, 22 p. 1950. 296.9 Un32
- 23270 U. S. S. R. SEL'KHOZSTROÏPROEKT. Korovnik dlia fermy na 30 korov [A cow barn for a farm of 30 cows]. U.S.S.R. Sel'khozstroïproekt. Tipovoi Proekt 0010, 19 p. 1950. 296.9 Un32
- 23271 U. S. S. R. SEL'KHOZSTROÏPROEKT. Ovcharnfa na 500 ovefs dlia tsentral'nykh i severnykh rayonov [A pen for 500 sheep for the central and northern districts]. U.S.S.R. Sel'khozstroïproekt. Tipovoi Proekt 0307, 11 p. 1950. 296.9 Un32
- 23272 U. S. S. R. SEL'KHOZSTROÏPROEKT. Pomeschenie molodnfaka dlia fermy na 80 korov [Stalls for young cattle on a farm for 80 cows]. U.S.S.R. Sel'khozstroïproekt. Tipovoi Proekt 0058, 11 p. 1950. 296.9 Un32
- 23273 U. S. S. R. SEL'KHOZSTROÏPROEKT. Svinarnik na 25 svinomatok [Pig sty for 25 sows]. U.S.S.R. Sel'khozstroïproekt. Tipovoi Proekt 0287, 19 p. 1950. 296.9 Un32
- 23274 U. S. S. R. SEL'KHOZSTROÏPROEKT. Telfatnik na 76 skotomest [A stall for 76 calves]. U.S.S.R. Sel'khozstroïproekt. Tipovoi Proekt 0054, 11 p. 1950. 296.9 Un32
- 23275 VAN HEERDEN, F. G. Poultry farming-poultry runs. Transkeian Ter. Agr. Dept. Umcebisi Womlimi Nomfuyi 27:49-52. Feb.1950. 24 T684
- 23276 WALTON, H. V., and SPRAGUE, D. C. Many dairy stables can be ventilated without fresh air inlets. Sci. Farmer [Pa. Sta] 1950:9. Dec.1950. 100 P381
- 23277 WASHINGTON. STATE COLLEGE. POULTRY COUNCIL. Turkey breeder houses and equipment. Wash. State Col. Ext. B. 371, 12 p. Nov.1950. (Poultry Pointers 40, rev.) 275.29 W27Pou
- 23278 WIELER, E. Instandhaltung. Deut. Wirtgeflügelzucht. 3:74-75. Nov.18,1950. 47.8 D483  
Poultry housing.
- 23279 WITZEL, S. A. Loose housing for dairy cattle. (Extr.) Milk Dealer 40(2):47-48,54,56. Nov.1950. 44.8 M595

#### Farmhouses and Farmsteads

- 23280 ALDEN, B. Modernization of the farm kitchen. (In Swedish.) Joel 1950:40-42. 1950. 335.8 J59
- 23281 JONES, K., and HANSON, D. The best yet for farm living. Successful Farming 49(1):40-43. Jan.1951. 6 Su12  
Farmhouse design.
- 23282 NOLAN, F. L., HONEY, R. R., and WASMUTH, G. V. Large, old houses common on farms; often fail to meet owners' needs. Sci. Farmer [Pa. Sta.] 1950:7-8. Dec.1950. 100 P381
- 23283 OLSEN, B. An old Kentish farmhouse. MacDonald Col. J. 11(3):19. Nov.1950. 101 M144  
Remodeling the house.
- 23284 SÉRANDOUR, P. Logement rural. Monit. Agr. 3(139):1,3. Dec.10,1950. 14 M744  
France.
- 23285 STREET, A. G. The more the merrier. Farmers Wk. [London] 33(22):49. Dec.1,1950. 10 F2226  
Better housing as a solution to the farm labor shortage problem in Great Britain.

- 23286 THYE, L. Step-saving U-kitchen plan. U. S. Agr. Res. Admin. Res. Achvt. Sheet 134,2 p. Nov.1950. 1.98 R31
- 23287 WIGGIN, D. C., JR. Farm labor sanitation in 1950. Conn. Health B. 65:6-10. Jan.1951. 449.7 C76C
- 23288 WILSON, M. A guide for the kitchen planner. Oreg. Agr. Expt. Sta. B. 482,35 p. Sept.1950. 100 Or3

#### Greenhouses and Plant Service Buildings

- 23289 ALBERTSEN, N. Upkeep of greenhouses. (In Danish.) Gart.-Tid. 66:501-502. Nov.8,1950. 80 G192
- 23290 BRITISH STANDARDS INSTITUTION. Timber Dutch lights. London, Gaylard, 1950. 15 p. 290.9 B77
- 23291 CONLON, T. Portable shelter for field [wheat] crossing. N. Dak. Agr. Expt. Sta. Bimon. B. 13:70-71. Nov./Dec.1950. 100 N813B
- 23292 KELLEY, J. Cloth house - 1950. Ohio Florists' Assoc. B. 254:3. Nov.1950. 81 Oh36
- 23293 KING, T. Greenhouse heating. Under Glass 1(9):4-7. Fall 1950. 80 Un22
- 23294 MAITLAND, D. J. Electricity is costly but saves labour. Grower [London] 34:1215. Dec.9,1950. 286.83 M34  
For soil warming and glasshouse heating.
- 23295 MOSE, P. Maintenance of our greenhouses. (In Danish.) Gart.-Tid. 66:537-538. Dec.6,1950. 80 G192
- 23296 WHILLIS, J. From mica frame to modern glasshouse; the fascinating story of the development of the present-day greenhouse from the earliest times. Smallholder 84(2118):8. Dec.22,1950. 10 Sm1

#### Materials and Methods

- 23297 DRIFTMIER, R. H. Insulating farm buildings. Prog. Farmer, Tex. Ed. 65(12):52-53. Dec.1950. 6 T311  
Insulation materials and how to use them.
- 23298 GLOSS, R. H. Timber connectors in farm structures. Agr. Engin. 31:614,616. Dec.1950. 58.8 Ag83
- 23299 SKACHKOV, A. I. More extensive utilization of local building materials. (In Russian.) Lesn. Khoz. 3(6):48-52. June 1950. 99.8 L5622  
In constrictions by the Ministry of Forestry.
- 23300 SOBRERO, L. R. Construcciones de tierra apisonada. Pampa Argentina 23(276):12. Nov.1950. 9 P19

#### Storage Structures

- 23301 CAMPEN, VON. Die Ueizener kartoffelscheunen. Karroffelbau 1:115-117. Oct.1950. 75.8 K145
- 23302 DODSON, L. A. Material problems for 1951. Natl. Assoc. Silo Mfr. Proc. 38:110-115. 1950. 60.79 N21  
Comments by G. A. Spry, C. C. Woody, H. C. De Muth, and P. Rutten.
- 23303 EKSAA, O. Farm plants for storage and drying of grain. (In Norwegian.) Norsk Landbr. 16:417-418. Nov.10,1950. 11 N8122
- 23304 KOLL, F. Die stallscheune. Osterr. Landtech. 3:216-218. Aug./Sept.1950. 58.8 L236  
Designs and specifications.
- 23305 MARSHALL, R. E. Construction of storages for nursery stock. Iowa State Hort. Soc. Trans. 84:106-110. 1949. 81 Io9
- 23306 NATIONAL ASSOCIATION OF SILO MANUFACTURERS. Proceedings, thirty-eighth annual convention, November 27-28, 1950, Palmer House, Chicago, Illinois. Norwich, N.Y., 1950. 142 p. 60.79 N21
- 23307 NIELSEN, C. G. G. New perspectives in the silage territory. (In Danish.) Dansk Landbr. 69:533-535. (To be cont.) Oct.19,1950. 280.28 V91  
Silos and silage preparation.
- 23308 REED, C. H. Silo coating equipment. Natl. Assoc. Silo Mfr. Proc. 38:107-109. 1950. 60.79 N21
- 23309 ROGERS, C. F. Wooster project. Natl. Assoc. Silo Mfr. Proc. 38:117-118. 1950. 60.79 N21  
Tests of concrete silos.
- 23310 ROSS, C. B. Automat cafeteria silos. Natl. Assoc. Silo Mfr. Proc. 38:55-74. 1950. 60.79 N21  
Comments by C. C. Woody.
- 23311 STEELE, J. C. Temporary or emergency silos. Nebr. Agr. Col. Ext. E. C. 728, 14 p. Nov.1950. 275.29 N272Ex
- 23312 TORP, A. Selection of storage buildings for manure. (In Norwegian.) Tidsskr. f. det Norske Landbr. 1950:266-276. Sept./Oct.1950. 11 T433



23313 U. S. S. R. SEL'KHOZSTROÏPROEKT. Silosnye famy i transhei [Silage pits and dug-outs]. U.S.S.R. Sel'khozstroïproekt. Tipovoi Proekt 1133,5 p. 1950. 296.9 Un32

23314 VILLEGAS, V. Silo and silage [Philippine Islands]. Agr. & Indus. Life 12(11):15. Nov.1950. 25 Ag8

#### Walls and Fences

23315 BUJAN, J. Reparación de cargadores aéreos y electrificación de cercos y alambrados. Charla Rur. 144:20-21. (Cont.) Oct.1950. 9 C37

23316 BURKHART, E. J. Investigation of rock drilling equipment for fence postholes and other farm uses. Tex. Engin. Expt. Sta. Res. Rpt. 17,12 p. Oct.1950. 290.9 T31R

23317 DONOVAN, J. M., JR. Good posts make strong fences. Blood-Horse 60:1422-1423,1458,1460. Dec.23, 1950. 42.8 T392

23318 HOLDEN, F. J. S. New type of fence designed by Hawkes Bay farmer. New Zeal. J. Agr. 81:457-458. Nov.1950. 23 N48J

23319 STEWART, J. A. Fences are fun. Flower Grower 38(2):43,63-65. Feb.1951. 80 M72

23320 STUDER, K. Zaun für schweineweide. Grüne 78:401-402. Apr.14,1950. 17 Sch9

#### FARM UTILITIES

##### Electricity and Electrification

23321 ALLISON, W. Modern miracles or major disaster. West. Farm Life 52(24):5,19. Dec.15,1950. 6 R153

Electric wiring.

23322 BRUEN, J. Suggestion award plan for electric co-ops. Rural Electrification 9(3):21. Dec.1950. 335.8 N21

23323 CLAYDON, E. C. Agricultural loads; development on overloaded rural mains. Elect. Rev. 147:983-984. Dec.15,1950. 335.8 EL22

23324 COVERDALE, J. W. Farm electrification progress. Farm Electrification 4(6):6-9. Nov./Dec.1950. 335.8 F224

23325 ERBACHER, W. Schalt- und installationsgeräte. Österr. Landtech. 3:202-204. July 1950. 58.8 L236

23326 FREITAS, H. DE. Electricity in rural life. (In Portuguese.) Observador Econ. e Financ. 15(178):54-62. Nov.1950. 280.8 O72

In various countries.

23327 FRENCH, O. C. What farmers problems are still unsolved. Farm Electrification 4(6):10-15. Nov./Dec. 1950. 335.8 F224

Possibilities for use of electricity.

23328 GUALA, B. Electrified farming; unification of frequencies. (In Italian.) Terra e Sole 99:367-368. Nov.1950. 16 T273

Italy.

23329 HODGE, E. A. Joint program of the Louisiana Power & Light Company and the Louisiana State University. Farm Electrification 4(6):35-38. Nov./Dec.1950. 335.8 F224

23330 HOLLOWAY, A. E. Rural electric system greatly expanded in 1950. South. Calif. Rancher 15(12):16. Dec.1950. 6 So831

23331 HÖRSTA, G. Reflections on rural electrification. (In Swedish.) Joel 1950:35-36. 1950. 335.8 J59

23332 IRELAND. ELECTRICITY SUPPLY BOARD. Twenty-third annual report for the year ended March 31st 1950. Dublin, 1950. 80 p. 335.9 Ir4

Includes rural electrification.

23333 JONES, R. T. What is a good farm sales program? Farm Electrification 4(5):21-27. Sept./Oct.1950. 335.8 F224

Sales of electric farm equipment.

23334 LANE, R. K. Methods and objectives in power pooling experiences in the Southwest. In Chamber of Commerce of the U. S. of America. Natural Resources Dept. Can Federal and private power live together, p.33-38. Washington, 1950. 335 C352

Electric power.

23335 MCMANUS, F. B. Power and propaganda. Sho-Me Live Wire 2(4):4. Dec.19,1950. 335.8 Sh7

23336 NANKIVELL, R. J. Small electric generating sets for the farm. So. Austral. Dept. Agr. J. 54:151. Oct.1950. 23 So84

23337 OAKES, C. E. Inroads and effects of Federal power programs. In Chamber of Commerce of the U. S. of America. Natural Resources Dept. Can Federal and private power live together, p.5-27. Washington, 1950. 335 C352

Includes work of REA.

23338 RILEY, T. Installing low voltage wiring. Sunday Oregonian Farm, Home & Garden 1950:6-7. Dec.24, 1950. 6 Su7

23339 SCHWARZ, A. E. Fifth National Farm Electrification Conference highlights. Farm Electrification 4(6):27-32. Nov./Dec.1950. 335.8 F224

23340 SKELTON, W. E. Virginia's 4-H Club rural electrification program for 1951. Farm Electrification 4(6):33-34. Nov./Dec.1950. 335.8 F224

23341 SPRAGUE, D. C. Electric controls and their application. Elect. on the Farm 23(10):28-30;24(1):30-31. Dec.1950-Jan.1951. 335.8 EL27

23342 TACKETT, B. How will we keep the REA co-ops down on the farm? Pub. Util. Fortnightly 47:13-15. Jan.4,1951. 280.8 P966

23343 U. S. RURAL ELECTRIFICATION ADMIN. Movies for co-op meetings. Film sources. Motion pictures for REA co-ops. U. S. D. A. PA-115,11 p. 1950? 1 Ag84Pro

23344 WICKARD, C. R. Electricity in agriculture. Washington, U. S. Rural Electrification Admin., 1951. 13 p. 1.91 A2W63

Paper presented to the Sectional Meeting of the World Power Conference, New Delhi, India, Jan. 10-15, 1951.

23345 WICKARD, C. R. The right of farmers to supply their own power lines. Sho-Me Live Wire 2(4):5. Dec.19,1950. 335.8 Sh7

23346 WICKARD, C. R. Why farmers build power plants. Rural Electrification 3(10):4,17. Nov.1950. 335.8 R886

23347 ZAKHARIN, A. G., and KARAUOV, N. A. Local electric power system for agricultural districts [U.S.S.R.]. (In Russian.) Akad. Nauk SSSR. Vest. 20(9):13-24. Sept.1950. 511 Ak14V

##### Heating, Lighting, and Radiation

23348 DACANAY, B. R. Gas producer on the farm. Philippine Agr. Engin. J. 1:24,26,35-36,38. Ref. First Q. 1950. 58.8 Ag88

23349 ELIA, G. D'. Methane gas from manure fermentation as a source of heat, light, motive power, and super fertilizers. (In Italian.) Riv. di Zootec. 23:292-294. Sept.1950. 49 R52

23350 ERBACHER, W. Elektrisches Licht. Österr. Landtech. 3:233-235. Aug./Sept.1950. 58.8 L238

23351 FAUVART, M. Essais de chauffage des greffes de vignes par cables chauffants chez M. Simier, pépiniériste-viticulteur à Chissay-en-Touraine - année 1950. Génie Rur. 43:365-366. Nov.1950. 58.8 Au8

23352 GIARRATANA, A. Polesine in the methane economy and methane in the economy of Polesine. (In Italian.) Rass. Econ. del Polesine (n.s.) 4:200-203. Sept./Oct.1950. 280.8 R183

23353 HANSON, D. Gas heat for pigs. Successful Farming 48(12):38,75. Dec.1950. 6 Su12

23354 JUGE, R. Les applications rurales du rayonnement infra-rouge. Génie Rur. 43:367-369. Nov. 1950. 58.8 Au8

23355 KEPNER, R. A. The principles of orchard heating. Calif. Agr. Expt. Sta. C. 400,10 p. Nov.1950. 100 C12S

23356 ROBERTI, G. Methane, natural, but also biological. (In Italian.) Cron. Econ. 91:11-14. Oct.15,1950. 280.8 C882

Manufacture from manure.

##### Power Plants, Motors and Engines on the Farm

23357 BAUER, H. Animalische kraft, wind, wasser, elektrotechnik. Masch. in der Landwirt. B1,72 p. Oct. 1950. 58 M37

23358 BERG, G. L. Stored power saves the day; storm damage minimized by standby generators. Everybods Poultry Mag. 56:26. Jan.1951. 47.8 F213P

23359 KIRCHER, W. H. Heat and power from pressure tanks. Farmer [St. Paul] Gen. Ed. 68(23):1,22-23. Dec.2,1950. 6 F2211

Use of liquid propane gas on the farm.

23360 MIYAHARA, H. Nokoyo sekiyu hatsudoki [Kerosene motor for the agricultural engineering]. Tokyo, Sankaido, 1950. 131 p. 291 M69



23361 POWERS, E. C. Progress in compressed air. Fruit & Veg. Rev. 12(9):18,30. Dec.1950. 80 C1224  
For power.

#### Sewage and Waste Disposal

23362 DELAWARE. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Poultry disposal pits. Del. U. Agr. Ext. Folder 22,4 p. Oct.1950. 275.29 D37W

#### Telephones

23363 BARKLEY, P., and SCHAFFEL, L. Outlook for two-way radio; REA survey predicts virtually 100 per cent use of mobile communications by co-ops. Co-op Power 7(12):8-9. Dec.1950. 335.8 C78

23364 REED, J. S. Rebuilding the rural outside plant XIV. Telephone Engin. & Mangt. 55:31-35,54,56. Jan. 1951. 335.8 T232

#### Water Supply

23365 BAYER, J. Warmwasser im bauernhaus. Österr. Landtech. 3:230-232. Aug./Sept.1950. 58.8 L236

23366 BROOKS, W. W. Water on the farm. Better Farming Better Living 1950:11. Autumn 1950. 6 B464  
Electric water system.

23367 DELPEREE, R. Tuyaux en polythene pour l'agriculture. Cour. Hort. 12:596-598. Nov.1950. 80 C834

23368 HOUT, F. B. Electric water systems on the farm. (Excerpts.) Rur. Electrifi. 9(4):27. Jan.1951. 335.8 N21

23369 KASHEKOV, L. Installation of water supply line on livestock raising farms. (In Russian.) Mashinno-Traktornaya Sta. 10(8):58-60. Aug.1950. 58.8 M11

23370 MAURER, A. Hydraulische widder und wasser-schlagpumpen für landwirtschaftliche wasserverforgung. Grüne 78:1260-1263. Nov.17,1950. 17 Sch9  
Switzerland.

23371 SACCO, P. Water at will. (In Italian.) Glor. di Agr. 60:373-374. Nov.26,1950. 16 It1G  
Water supply for cattle in stables.

23372 VAN DEN HEEVER, D. J. A farmer gets mad at his engine. (In Afrikaans.) Landbouweekblad 32(1630): 23. (Cont.) Oct.11,1950. 24 L232  
Centrifugal pump.

### AGRICULTURAL PRODUCTS: PROCESSING, DISTRIBUTION, AND STATISTICS

#### GENERAL

23373 BAKERS WEEKLY. Buyers' guide-catalog, 1951/52. New York,1950. 299 p. 225 B17B

23374 BANK OF NOVA SCOTIA. The demand for farm products. Bank Nova Scotia. Mon. Rev. (n.s.)54,4 p. Nov.1950. 280.9 B223

23375 BURK, M. C. An analysis of certain estimates of food requirements and demand. Agr. Econ. Res. 3:8-16. Jan.1951. 1 Ec7Agr

23376 CAMPANILE, P. F. The world food situation and exchange of agricultural products. (In Italian.) Agenzia Romana Note e Inform. Agr. 80:1-3. Nov.25, 1950. 281.8 Ag3  
Interview with G. U. Papi.

23377 DODD, N. E. The war against hunger. United Nations B. 10:37-38. Jan.1,1951. 280.8 Un383

23378 HOOFNAGLE, J. E. The nation's food supply. Washington, U. S. Prod. & Mktg. Admin.,1950. 5 p. 1.956 F73H76

Talk at Annual Institute of Southern Association of College and University Business Officers, Atlanta, Oct. 5, 1950.

23379 LOGAN, P. P. General estimate of food situation. Restaurant B. 14(164):18. Nov.1950. 389.8 R312

23380 LOULA, J. D. L'organisation des recherches dans l'industrie de l'alimentation en Tchécoslovaquie. (Sum.) Cong. Internatl. des Indus. Agr. [Rapports] 1948 (2):114. 1950. 388 C765

23381 MAYER, A. L'importance du développement de la technique des industries agricoles dans la lutte contre la sous-alimentation. Cong. Internatl. des Indus. Agr. [Rapports] 1948(2):11-18. 1950. 388 C765  
Food policy.

23382 ROMIEU, A. L'approvisionnement de la France: les ressources alimentaires à l'automne 1950. Cahiers Franç. d'Inform. 170:8-12. Dec.15,1950. 280.8 C11

23383 SACAY, F. M. The food supply and population of the Philippines. Philippine Agr. 33:203-217. Jan./Mar. 1950. 25 P542

23384 SUBALL, L. No habrá hambre en el mundo. Campo [La Paz] 4(33):9-12; (34):39-41. Jan.-Feb.1950. 9.1 C15

23385 U. S. BUR. OF AGRICULTURAL ECONOMICS. A chronology of the War Food Administration, including predecessor and successor agencies, August 1939 to December 1946, by G. L. Baker and W. D. Rasmussen. Washington,1950. 73 p. 1.941 A2C462

23386 U. S. NATIONAL COMMISSION FOR UNESCO. The UNESCO story. Washington,1950. 112 p. 150 In824  
Food and people, p. 53-59.

23387 WATSON, SIR A. Food production is India's crucial problem. Gt. Brit. & East 66(1815):25. Dec.1950. 286.8 N27

23388 WESTER, W. H. Enfrentara el mundo una catástrofica crisis de viveres? Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(14):18-30. Aug.1950. 9 Ar35

23389 WILLIS, P. S. Food facts for the road ahead. Fruit & Veg. Rev. 12(9):14,30. Dec.1950. 80 C1224

#### ANALYSIS AND COMPOSITION

23390 ANTONIANI, C. Significance of the biochemical process of acetoin condensation. (In Italian.) Cong. Internatl. des Indus. Agr. [Rapports] 1948(2):194-199. 1950. 388 C765

23391 ANTONIANI, C., and GRANATA, R. The Szent Gyorgyi system and the Krebs-Johnson cycle in citric fermentation of Aspergillus niger. (In Italian.) Cong. Internatl. des Indus. Agr. [Rapports] 1948(2):190-193. 1950. 388 C765

23392 BARKER, S. A., and others. The enzymic synthesis and degradation of starch. VIII-IX. Chem. Soc. J. 1950:3022-3030. Nov.1950. 382 L84J

E. J. Bourne, S. Peat, and I. A. Wilkinson, joint authors. IX, by S. A. Barker, E. J. Bourne, and I. A. Wilkinson.

23393 CHAO, K. H. Action, sur les glucides, de quelques bactéries de la pourriture visqueuse. Indus. Agr. et Aliment. 67:357-367. (To be cont.) Aug./Oct. 1950. 383 As7

English summary.

23394 COOK, J. W. Detection of fecal matter in food products. II-III. Assoc. Off. Agr. Chem. J. 33:942-955. Nov.15,1950. 381 As7

II, Amylase activity of feces as a measure of fecal contamination; III, Alkaline phosphatase spot test as an indicator of rodent feces.

23395 COTRONEO, G. Determination of lignin and methoxyl content of certain plants. (In Italian.) (Abs.) Chim. & Indus. 64(3,spec.no.):108. Sept.1950. 383 C42

23396 FARMER, V. C. The spectrographic analysis of plant ash in the carbon arc. Spectrochim. Acta 4:224-228. 1950. 334.8 Sp3

Determination of trace elements in plant materials.

23397 FINCKE, H. Über berufsauffassung und berufsausübung des lebensmittelchemikers. Chem.-Ztg. 74. 734-736. Dec.7,1950. 384 C427

English summary.

23398 FISHER, C. H., and FILACHIONE, E. M. Properties and reactions of lactic acid—a review. U. S. Bur. Agr. & Indus. Chem. AIC-279,32 p. Ref. Oct.1950. 1.932 A2Ag82

23399 FREY, W. Über die prüfung der geschmacksbeeinträchtigenden wirkung von hexa-präparaten an obst und gemüse. Nachrbl. des Deut. Pflanzenschutzdienstes 2:81-84. June 1950. 442.9 B832

23400 GUZMÁN BARRÓN, A., and PAYVA CARBAJAL, C. El hierro ionizable en los alimentos peruanos. Cong. Peruano de Quim. Actas y Trab. 1949 (1):356-364. Ref. 385 C763

23401 HITES, B. D., and ACKERSON, C. W. Hydrogen-ion adjustment with pH meter for calcium precipitation in nitric-perchloric acid digests of biological materials. Assoc. Off. Agr. Chem. J. 33:1008-1010. Nov.15, 1950. 381 As7



- 23402 HUMPHREY, H. J. The bacteriology of frozen foods. *Quik Frozen Foods* 13(5):50-51,104. Dec.1950. 389.8 Q4  
Also in *Canner* 111(25):10-11. Dec.23,1950. 286.83 C16
- 23403 ILUKEWITSCH A., A., and MORA F., R. L. Modificación del método Eber para la determinación del amoníaco. *Rev. de Sanidad Vet.* 5:690-697. Oct.15,1950. 41.8 R3222  
Analysis of food, etc.
- 23404 JOSLYN, M. A. Methods in food analysis applied to plant products. New York, Academic Press, 1950. 525 p. 389 J78
- 23405 KLENK, E., and DEBUCH, H. Zur frage des vorkommens der hochungesättigten fettsäuren C<sub>20</sub> und C<sub>22</sub> in den pflanzenphosphatiden. *Hoppe-Seyler's Z. f. Physiol. Chem.* 286:33-37. 1950. 384 Z38
- 23406 KUBO, S., and TSUTSUMI, C. Gravimetric determination of phosphorus by the use of cation exchange resin. (In Japanese.) Tokyo. *Food Res. Inst. Rpt.* 3:87-91. June 1950. 389.9 T57  
English summary.  
In food.
- 23407 KUON CABELLO, J. Urgencia de creación de un lab. de bromatología en el Cuzco. *Cong. Peruano de Quim. Actas y Trab.* 1949(2):505. 385 C763
- 23408 LETZIG, E. Die uronsäurebestimmung, eine vernachlässigte methode in der lebensmittelchemie. *Z. f. Lebensmitl.-Untersuch. u. -Forsch.* 91:325-338. Ref. Nov.1950. 384 Z39
- 23409 MCCOMB, E. A. Notes on the determination of moisture in starches by the Karl Fischer reagent. *Assoc. Off. Agr. Chem. J.* 33:1021-1022. Nov.15,1950. 381 As7
- 23410 MAINE, AGRICULTURAL EXPERIMENT STATION. Foods and drugs, 1949-50, by E. R. Tobey. Orono, 1950. 44 p. 100 M283  
Analyses of samples of foods and drugs.
- 23411 MEYER, H. Lösliche stärke. *Stärke* 2:250-251. Ref. Oct.1950. 309 St22
- 23412 MONIER-WILLIAMS. Problèmes posés par l'analyse des oligoéléments existant dans les produits alimentaires. (Sum.) *Chim. Analyt.* 32(11,spec.no.):42. Nov.1950. 383 An72
- 23413 MUNSELL, H. E., and others. Composition of food plants of Central America. VII-VIII. *Food Res.* 15: 421-453. Ref. Nov./Dec.1950. 389.8 F7322  
VII, Honduras, by H. E. Munsell, L. O. Williams, L. P. Guild, L. T. Kelley, and R. S. Harris; VIII, Guatemala, by H. E. Munsell, L. O. Williams, L. P. Guild, L. T. Kelley, A. M. McNally, and R. S. Harris.
- 23414 NAKANO, M., and YOSIKAWA, S. Microbes in breads and in raw materials. (In Japanese.) Tokyo. *Food Res. Inst. Rpt.* 3:149-156. June 1950. 389.9 T57  
English summary.
- 23415 NAKANO, M., and YOSIKAWA, S. Studies on the amylase of bacteria isolated from ropy breads. I. (In Japanese.) Tokyo. *Food Res. Inst. Rpt.* 3:157-166. Ref. June 1950. 389.9 T57  
English summary.
- 23416 PAYVA CARBAJAL, C. A. Análisis de sesen-tinueve alimentos que se consumen en el Perú. *Cong. Peruano de Quim. Actas y Trab.* 1949(2):530-537. Ref. 385 C763
- 23417 PELSHEKE, P. F., RUGGERBERG, H., and LINDEMANN, E. Untersuchungsergebnisse an importierten stärke (2. quartal 1950). *Stärke* 2:255. Oct.1950. 309 St22  
Analysis.
- 23418 POLHEIM, P. VON. Probenahme von ernte-produkten zur untersuchung auf ihre chemische oder botanische zusammensetzung. *Bad. Landwirt. Wchnbl.* 117:801-802. Nov.18,1950. 18 B142  
Forage plants, grain, and oilseeds.
- 23419 PROCTOR, B. E., GOLDBLITH, S. A., and FRAM, H. Effect of supervoltage cathode rays on bacterial flora of spices and other dry food materials. *Food Res.* 15:490-493. Ref. Nov./Dec.1950. 389.8 F7322
- 23420 PURR, A. Über das regenerierungsphänomen pflanzlicher peroxydasen. *Biochem. Z.* 321:19-25. 1950. 384 B522
- 23421 PURR, A. Zur bestimmung pflanzlicher peroxydasen. *Biochem. Z.* 321:1-18. Ref. 1950. 384 B522
- 23422 ROLEFF, H. Beitrag zur Pfahlschön reaktion. *Z. f. Lebensmitl.-Untersuch. u. -Forsch.* 91:346-350. Ref. Nov.1950. 384 Z39
- 23423 SARKAR, B. C. R., and others. A comparison of the chemical and microbiological methods for determining cystine in protein hydrolyzates. *Mich. Agr. Expt. Sta. Q. B.* 33:143-150. Nov.1950. 100 M58S  
R. W. Luecke, R. J. Evans, and C. W. Duncan, joint authors.
- 23424 SCHACHINGER, L. Osmotischer druck und mikroorganismenwachstum auf lebensmitteln. (Abs.) *Angew. Chem.* 62:484. Oct.21,1950. 384 Z33
- 23425 SOCIÉTÉ DE CHIMIE INDUSTRIELLE. Journées internationales de l'analyse et des essais Paris, 20-24 novembre 1950. *Chim. Analyt.* 32(11,spec.no.), 117 p. Nov.1950. 383 An72
- 23426 SORGATO, I., and SORANZO, L. Dosage of glutamine in plants. (In Italian.) (Abs.) *Chim. & Indus.* 64(3,spec.no.):72. Sept.1950. 383 C42
- 23427 STADLINGER, H., and WINCKEL, M. Nahrungsmittelchemiker-ernährungsschemiker. *Chem.-Ztg.* 74:604-605. Oct.5,1950. 384 C427  
English summary.
- 23428 TAMURA, T., and IZUMI, Y. On the sugar calculation table for the "micro-Bertrand's method." (In Japanese.) Tokyo. *Food Res. Inst. Rpt.* 3:93-98. June 1950. 389.9 T57  
English summary.
- 23429 VARGAS, V. Determinación de B1 en algunos alimentos consumidos en el Perú. *Cong. Peruano de Quim. Actas y Trab.* 1949(2):550-551. 385 C763

## CONSUMPTION AND UTILIZATION

- 23430 MCMILLEN, W. La chimurgie. *Chim. & Indus.* 64:755-759. Dec.1950. 383 C42
- 23431 PERYAM, D. R. Problem of preference gets QM focus. *Food Indus.* 22:2049-2051,2185-2186. Dec. 1950. 389.8 F737
- 23432 SHULL, S. C., and GODWIN, M. R. Consumer shopping habits. *Md. Agr. Col. Ext. B.* 137,28 p. June 1950. 275.29 M36B
- 23433 TEUTON, F. L. New uses for farm products. Washington, U. S. Bur. Agr. & Indus. Chem., 1951. 10 p. 1.98 T29  
Address before the Wyoming Ranch, Farm and Home Week at Laramie, Mar. 7, 1951.
- 23434 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. What's new in farm science, by P. A. Wells, T. L. McMeekin, C. O. Willits, and K. Gapen. Washington, 1951. 4 p. 1.914 R2R11  
New uses of farm products.
- 23435 WEIBEL, R. O., and BURLISON, W. L. "Chemurgie"—eine junge wissenschaft; landwirtschaft im dienste der chemie. *Chem.-Ztg.* 74:495-496. Aug.24, 1950. 384 C427  
English summary.
- 23436 YATAZAWA, M. Nōsanbutsu riyōgaku [The utilization of agricultural products]. Tokyo, Keizai Hyoron-sha, 1950. 454 p. 395 Y2

## DISTRIBUTION, MARKETING, AND TRANSPORTATION

- 23437 ALDERSON, W. Obtaining industry cooperation in marketing research. In *U. S. Agricultural Research Admin. Marketing margins and efficiency*, p.136-141. Washington, 1950. 1.98 M343
- 23438 AMERICAN INSTITUTE OF FOOD DISTRIBUTION. Outlook for food sales in 1951. New York, 1950. 36 p. 389.9 Am38
- 23439 BAGGE, F. The farm market during the third quarter of 1950. (In Swedish.) *Lantmannen* 34:914-918. Nov.25,1950. 11 L234
- 23440 BARROS, J. A. C. DE. A policy of supplies and prices. (In Portuguese.) *Cent. de Estud. Econ. Rev.* 1950(10):7-33. 280.9 C333  
Food in Portugal.
- 23441 BEEN, R. O. Census and other secondary data as an aid in marketing research. In *U. S. Agricultural Research Admin. Marketing margins and efficiency*, p.120-129. Washington, 1950. 1.98 M343
- 23442 CAVINA, R. Technical resources and working equipment of the farmer. (In Portuguese.) *Selec. Agr.* 5(54):9-11. Oct.1950. 9.2 Se4  
Marketing problem.
- 23443 DAVIES, J. L. More marketing boards; government action is no substitute for producer organisations; now is the time to build them on a broad front. *Farmer & Stock-Breeder Ybk.* 1951:56-58. 49 F22



- 23444 DEFRIES, C. H. The contribution of producer controlled commodity boards to agricultural stability in Queensland. *Queensland Prod.* 32(11):4-5,26. Sept.13, 1950. 23 Q35  
 Producer-controlled marketing.
- 23445 DIMMICK, T. B. Traffic trends on rural roads. *Roads & Engin. Constr.* 88(12):89-92,114,116,118-119. Dec.1950. 290.8 C16A
- 23446 ESHBACH, C. E. Food buymanship, and what it means. Washington, U. S. Ext. Serv., 1950. 14 p. 1.913 F4F735  
 Presented at the Third Annual Marketing School for Extension Workers in Massachusetts, Oct. 5, 1950, at Amherst.
- 23447 FOURIE, J. K. The necessity for market research. *Citrus Grower* 201:11-12. Oct.1950. 80 C495
- 23448 GUIMARAES, A. Brazil forms its own market. (In Portuguese.) *Observador Econ. e Financ.* 15(177):58-64,94. Oct.1950. 280.8 Ob72
- 23449 GUSLER, G. Market outlook. *Mont. Farmer-Stockman* 38(2):18-19. Sept.15,1950. 6 M764
- 23450 INDIA. DIRECTORATE OF MARKETING AND INSPECTION. Agricultural marketing in India; annual report for the year ending 31st December 1948. India. Agr. Mktg. Adv. Mktg. Ser. 68,45 p. 1950. 280.39 In2
- 23451 JACOBSEN, A. P. The American surplus. (In Danish.) *Dansk Landbr.* 69:525-526. Oct.19,1950. 280.28 V91  
 Disposal of surplus agricultural commodities.
- 23452 LEHMAN, A. W. Advertising to the farm market. *Advertising Agency* 44:56-57,112,114. Jan.1951. 238.28 Ad93
- 23453 MCNAIR, M. P. Importance of efficient food distribution. *Super Mkt. Merchandising* 16:100-101,104-107. (To be cont.) Jan.1951. 389.8 Su7
- 23454 NEW ZEALAND. MARKETING DEPT. Report and statement of accounts for the year ended 30th September, 1949. Wellington, 1950. 60 p. 280.39 N487
- 23455 PILLAI, R. V. R. The need for better rural production and marketing. *Madras J. Co-op.* 42:149-152. Sept.1950. 280.28 M26  
 Includes cooperative marketing.
- 23456 PIPER, W. E. Farm food marketers seek ideas from grocers. *New Eng. Grocery & Mkt. Mag.* 19(2):29-30. Dec.1950. 286.83 N44A
- 23457 SASKATCHEWAN CO-OPERATIVE PRODUCERS. Twenty sixth annual report. Regina, 1950. 48 p. 59.9 Sa73
- 23458 THOMPSON, J. I. Mobilized marketing. Washington, U. S. Prod. & Mktg. Admin., 1950. 13 p. 1.956 A2T37  
 Speech at the annual PMA conference in Chicago, Dec. 13, 1950.
- 23459 THOMPSON, W. H. Postwar railroad freight rate increases and agriculture. *J. Mktg.* 15:298-306. Jan.1951. 280.38 J82
- 23460 TRIGG, R. S. PMA responsibility in national defense. Washington, U. S. Prod. & Mktg. Admin., 1950. 13 p. 1.956 A2T73  
 Address at annual PMA conference, Chicago, Dec. 11, 1950
- 23461 TURNER, SIR J. The marketing of farm products. London *Corn C.* 107(99):13;(100):11. (Cont.) Dec.11-15,1950. 286.81 L84  
 Also in *Milling* 115:578-579. Dec.9,1950. 298.8 M622
- 23462 U. S. COMMODITY EXCHANGE AUTHORITY. Twenty-five years of futures trading under Federal regulation. Washington, 1950. Rev. 14 p. 1.945 T91

#### GRADING, INSPECTION, STANDARDIZATION, AND QUALITY

- 23463 ALVISTUR JAHNSEN, E. Reglamentaciones de alimentos preparadas por el Instituto Nacional de Nutrición. Cong. Peruano de Quím. Actas y Trab. 1949(2):496-498. 385 C763
- 23464 ATTACK, F. W. "Certified food colours"—now Government regulation. *Canad. Dairy & Ice Cream J.* 29(12):76,78,81. Dec.1950. 44.8 C162  
 Food colorings.
- 23465 FLORIO, R. Sur la pathogénie des intoxications et des toxi-infections alimentaires d'origine bactérienne. *Rev. de Méd. Vét. [Toulouse]* 101:377-380. Ref. July 1950. 41.8 R32

- 23466 HEISS, R. Haltbarkeit und verpackung einiger hygroskopischer lebensmittel. (Abs.) *Chem.-Ingen.-Tech.* 22:463. Nov.14,1950. 384 C428
- 23467 KASTORFF, B. Über die standardisierung landwirtschaftlicher erzeugnisse. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:23-25. Sept.1950. 18 D4822  
 Russian Zone of Germany.
- 23468 MCLACHLAN, T. The Labelling of Food Order. *Food Mfr.* 25:504-505. Dec.1,1950. 389.8 F736  
 Great Britain.
- 23469 RAMSTAD, P. E., and VOLZ, F. E. Did it thaw? Gel will tell; simple indicator, combining oxidizing enzyme and ascorbic acid, will spot any temperature rise, thus warning of possible damage to frozen foods. *Food Indus.* 22:2091,2189,2191. Dec.1950. 389.8 F737
- 23470 SCHELHORN, M. VON. Untersuchungen über den verderb wasserarmer lebensmittel durch osmophile mikroorganismen. II. *Z. f. Lebensmitl.-Untersuch. u. -Forsch.* 91:338-342. Nov.1950. 384 Z39
- 23471 SUZUKI. *Nogyo shinsa kensa handobukku* [Hand-book of agricultural judge and inspection]. Tokyo, Nogyo Shoin, 1949. 464 p. 30.3 Su9
- 23472 U. S. DEPT. OF AGRICULTURE. LIBRARY. Partial list of publications by or about Dr. Harvey W. Wiley relating to his efforts to establish a Federal pure food law. Washington, 1950. 2 p. Typewritten.
- 23473 WHITE, H. C. Standards of quality in foods. *Amer. Acad. Appl. Nutr. Mon. Newslet. J.* 3(12):11. Dec.1950. 389.9 Am352

#### PACKING AND PACKAGING

- 23474 BARTUSCH, W. Physikalisch-chemische Gesichtspunkte bei verklebungsvorgängen. (Abs.) *Chem.-Ingen.-Tech.* 22:462. Nov.14,1950. 384 C428  
 In food packaging.
- 23475 CALDEWELL, W. A., and GILLIES, J. Desarrollo de las latas de conservas de alimentos, autocalentadas. *Indus. Conservera* 16:232-234. Sept.1950. 389.8 In24
- 23476 DUDE. Entwicklung im verpackungsautomatenbau. (Abs.) *Chem.-Ingen.-Tech.* 22:461-462. Nov.14, 1950. 384 C428  
 In the food industry.
- 23477 GÖRNHARDT, L. Chemische widerstandsfähigkeit unbehandelter aluminumfolie. (Abs.) *Chem.-Ingen.-Tech.* 22:462. Nov.14,1950. 384 C428  
 In food packaging.
- 23478 HALLS, E. E. Moistureproof wrapping films. *Food [London]* 19:469-472. Dec.1950. 389.8 F738  
 Plastics.
- 23479 KLINGELHÖFFER, H. Versuche über die gas- und dampfdurchlässigkeit von packstoffen. (Abs.) *Chem.-Ingen.-Tech.* 22:462-463. Nov.14,1950. 384 C428  
 Food packaging.
- 23480 KLINGELHÖFFER, H. Zur methodik der verpackungsplanung. (Abs.) *Chem.-Ingen.-Tech.* 22:461. Nov.14,1950. 384 C428  
 Food.
- 23481 LUBIENIECKA, M., and SCHELHORN, VON. Über keimhemmende papiere. (Abs.) *Angew. Chem.* 62:485. Oct.21,1950. 384 Z33  
 In food packaging.
- 23482 PACKAGING INSTITUTE. 12th annual forum, Hotel Commodore, New York-October 23-25, 1950. *Mod. Packaging* 24(4):117-128. Dec.1950. 309.8 M72
- 23483 RIGHI, H. Druckverhältnisse beim hitzesterilisieren von dosen. (Abs.) *Chem.-Ingen.-Tech.* 22:463. Nov.14,1950. 384 C428  
 For food.
- 23484 SCHRICKER, G. Untersuchungen über das heissverkleben. (Abs.) *Chem.-Ingen.-Tech.* 22:462. Nov.14,1950. 384 C428  
 Food.
- 23485 SIMERL, L. E. Adhesives in food packaging. (Abs.) *Mod. Packaging* 24(4):123-124. Dec.1950. 309.8 M72

#### PRICES, PRICE CONTROL, AND RATIONING

- 23486 ALBERTARIO, P. Economic protection of agricultural products. (In Italian.) *Voce del Campi* 5(12):1-2. May 25,1950. 16 V852  
 Price control in Italy.



- 23487 BLONDELLE, R. Le problème dringende aufgabe! Bas-Rhin Agr. 5:577-578. Dec.2,1950. 14 B29  
Text also in German.  
Relation of agricultural to industrial prices.
- 23498 BOSSAERT, O. De la stabilisation des prix mondiaux des principales matières premières de l'industrie alimentaire. Cong. Internat. des Indus. Agr. [Rapports] 1948(2):24-54. 1950. 388 C765  
Includes discussion.
- 23499 BRANDT, J. A study of the (non-partisan) Brandt Plan; a proposal to steady farm prices through a self-financing system of price supports. Val. Farmer 1(9):2-3. Nov.1950. 6 V244
- 23490 CANADA. AGRICULTURAL PRICES SUPPORT BOARD. Annual report to the Minister of Agriculture for the year 1949-50. n.p.1950. 12 p. 284.39 C169
- 23491 FALCONER, J. I. Price and wage trends. Ohio Farm & Home Res. [Ohio Sta.] 35:72. Sept./Oct. 1950. 100 Oh3S
- 23492 GISLASON, S. The price basis 1950-1951. (In Icelandic.) Freyr 45:268-269. Oct.1950. 11 F89
- 23493 HEMPHILL, P. V. Prices of North Dakota farm products. N. Dak. Agr. Expt. Sta. Bimon. B. 13:83. Nov./Dec.1950. 100 N813B
- 23494 JASNY, N. The Soviet price system. Amer. Econ. Rev. 40:845-863. Dec.1950. 280.8 Am32
- 23495 JORDAN, G. L. Twenty years of prices and incomes received by Illinois farmers, 1929-1948. Ill. Agr. Expt. Sta. B. 542,72 p. Sept.1950. 100 IL6S
- 23496 LEADLEY, T. Farm Bureau opposes price controls. Nebr. Farmer 93(1):9,14. Jan.6,1951. 6 N27
- 23497 MCFETRIDGE, H. Farm price supports. Amer. Farm Youth 16(7):12-13. Dec.1950. 6 Am393
- 23498 MAGALHÃES, V. P. DE. Construction of a price index of agricultural products for the producer. (In Portuguese.) Cent. de Estud. Econ. Rev. 1950(10):35-117. 280.9 C333
- 23499 NATIONAL INDUSTRIAL CONFERENCE BOARD. Price control in a defense economy. Natl. Indus. Conf. Bd. Studies Business Econ. 26,64 p. Dec. 1950. 280.9 N216St  
R. B. Heflebower, discussion leader.
- 23500 NORDBY, J., and ARESVIK, O. Survey of the regulation of farm prices in U.S.A. and Norway. (In Norwegian.) Tidsskr. f. det Norske Landbr. 1950:235-265. Sept./Oct.1950. 11 T433
- 23501 PARVIN, D. W., CHRISTIAN, W. E., and TRAMEL, T. E. Prices received by Mississippi farmers drop but remain above year-ago level. Miss Farm Res. [Miss. Sta.] 13(11):2. Nov.1950. 100 M69Mi
- 23502 PEARSON, F. A., MYERS, W. I., and WARREN, S. W. The state of the Nation. N. Y. Agr. Col. Farm Econ. 177:4597-4612. Nov.1950. 280.8 C812  
Includes prices and inflation.
- 23503 PEARSON, F. A., MYERS, W. I., and VIAL, E. E. Stock market. Appraisal J. 19:95-105. Jan.1951. 282.8 Am3  
Discusses commodity prices.
- 23504 ROTHCHILD, K. W. Lebenshaltungskosten und rationierung; eine bemerkung zu Professor Andersons untersuchung "Über die Neuberechnung von Indexziffern der Lebenshaltungskosten in Deutschland." Welt-wirt. Arch. 65:305-309. 1950. 286.8 W462  
Reply by O. Anderson, p. 310-312.
- 23505 SANT'AMBROGIO, L. Analysis of retail price curves of foods at Milan during the 1947-1950 period. (In Italian.) Cam. di Com. Indus. e Agr. di Milano. B. Econ. II. Studi e Statis. 3(10):17-24. (To be cont.) Oct. 1950. 280.9 M587B
- 23506 TORRES FILHO, A. Cost of living. (In Portuguese.) Lavoura 54:3-5. July/Aug.1950. 9.2 L39  
Includes prices in Brazil.
- 23507 VIOLETTA, A. Observations on wholesale price trends. (In Italian.) Cam. di Com. Indus. e Agr. Vicenza. Not. Econ. 5(20):23-24. Oct.16,1950. 287 V662  
Italy.
- 23509 AVERDIECK, O. Kältetechnik; die verwendung von ozon, ultraviolettstrahlen und kohlendioxyd bei der lebensmittelkonservierung. Kälte 3:232-234. Nov.1950. 295.8 K122
- 23510 BARNES, H. J. It shouldn't take a war but usually it does. (Excerpts.) Canner 111(23):18,24. Dec.9,1950. 286.83 C16  
The canning industry.
- 23511 BAZEMORE, G. M. The part canners play in Georgia's economy. South. Canner & Packer 12:13-15, 20-21. Jan.10,1951. 389.8 So82
- 23512 BOLCATO, V., PARIGI, G., and INNOCENTIS, M. DE. Treatment of Aspergillus niger with organic substances in the vapor state. (In Italian.) Cong. Internat. des Indus. Agr. [Rapports] 1948(2):208-212. 1950. 388 C765  
Summary in French.
- 23513 BOUSSER, R. Considérations nouvelles sur les séchages solaires. Soc. des Sci. Nat. du Maroc. B. 28:27-30. 1948, pub.1950. 515 So1
- 23514 CHEREAU, L. Importance et nécessité de la protection de l'invention dans la technique de l'agriculture et des industries agricoles. Cong. Internat. des Indus. Agr. [Rapports] 1948(2):67-74. 1950. 388 C765  
Food processing.
- 23515 CLIFCORN, L. E. Developments in the production and utilization of canned foods. (Abs.) Canning Trade 73(26):15. Jan.15,1951. 286.83 T67
- 23516 COFFARI, E. Acrylic resins from lactic acid. (In Italian.) (Abs.) Chim. & Indus. 64(3,spec.no.):108. Sept.1950. 383 C42  
Use of agricultural wastes.
- 23517 DREW, F. German freezing progress reported slow. West. Canner & Packer 41(13):45. Dec.1950. 286.83 W522
- 23518 DROSTE, H. H. Non-seasonal food canning grows rapidly. Natl. Food Distrib. J. 34,i.e.32(7,i.e.8): 12. Nov.1950. 286.28 N212
- 23519 ECOFFARD, J. Quels enseignements tirer du fonctionnement de l'entrepôt frigorifique provisoire du port de Casablanca. Terre Marocaine 24:420-421. Oct. 1950. 24 T44
- 23520 GEMMILL, A. V. Centrifuging's big strides. Food Indus. 22:2070-2081. Ref. Dec.1950. 389.8 F737
- 23521 HAMMOND, A. E. Food under fluorescent light. Food [London] 19:464-465. Dec.1950. 389.8 F738
- 23522 HANSEN, O. Reflections regarding cold storage and refrigeration plants in Norway. (In Norwegian.) Meieriposten 39:850-851. (To be cont.) Dec.2,1950. 44.8 M47
- 23523 HENKEL, H. Vorschläge zur errichtung von dorf-verwertungs-stationen (DVS). Nat. u. Nahr. Ausg. B 4:82-83. Aug.1950. 80 N218B  
Food processing.
- 23524 HOFMANN, E., and SCHECK, H. Über den einfluss des kalium-lons auf bildung und aktivität der fermenten bei hefen und schimmelpilzen. Biochem. Z. 321:98-106. Ref. 1950. 384 B522
- 23525 HOLTEN, E. Kalteschliessfachanlagen in Dänemark. Kälte 3:224-226. Nov.1950. 295.8 K122
- 23526 INOUE, N. Nosan kakogaku [Manufacturing science of agricultural products]. Tokyo, Hounsha, 1949. 286 p. 389 In7
- 23527 JONAS, V. Production de matières riches en protéines à partir des eaux résiduaires des industries agricoles et purification de celles-ci. Cong. Internat. des Indus. Agr. [Rapports] 1948(2):231-234. 1950. 388 C765
- 23528 JONES, A. H. The importance of sanitation in food plants. Canad. Food Indus. 22:26-27. Jan.1951. 286.83 C166
- 23529 KAIN, D. N. E. Natal experiments in food yeast from wattle wood. Food Indus. So. Africa 3(6):31. Oct.1950. 389.8 F7372
- 23530 KALOYERAS, S. A. On the history of food preservation. Sci. Mon. 71:422-424. Ref. Dec.1950. 470 Sc123
- 23531 KERTESZ, Z. I. What pectins mean to the food processor. (Abs.) Canning Trade 73(26):15-16. Jan.15,1951. 286.83 T67
- 23532 KRAMER, C., and POST, J. J. Remarks on temperature and moisture observations in storage places. (In Dutch.) Fruitteelt 40:922-924. Nov.30,1950. 86 N28
- 23533 KRASKA, E. J. Damaged canned goods—here's the story. Distrib. Age 49(12):30-31,75. Dec.1950. 288.8 T68  
Care and handling.

## PROCESSING AND STORAGE

- 23508 ASSOCIAÇÃO INDUSTRIAL PORTUGUESA. Relatório e parecer da Comissão Revisora de Contas gerência de 1949 [Report and opinion of the Commission Revising Accounts, season of 1949]. Lisboa, 1950. 196 p. 297.9 As7  
Includes industries derived from agricultural products.



## STATISTICS

- 23534 LOHMAR, R., SLOAN, J. W., and RIST, C. E. Phosphorylation of starch. *Amer. Chem. Soc. J.* 72:5717-5720. Ref. Dec.1950. 381 Am33J
- 23535 LUBIENIECKA, M., and SCHELHORN, VON. Wirkungsbereich und anwendungsmöglichkeiten altbekannter und neuerer konservierungsmittel. (Abs.) *Angew. Chem.* 62:484. Oct.21,1950. 384 Z33
- 23536 MANN, L. B. Locker plants, 20th century product. *News Farmer Coop.* 17(10):13. Jan.1951. 166.2 N47
- 23537 NAKANO, M., and MATUURA, S. Researches on the "tane-koozi." I. (In Japanese.) Tokyo. *Food Res. Inst. Rpt.* 3:133-148. Ref. June 1950. 389.9 T57  
English summary.  
Aspergillus oryzae in food fermentation.
- 23538 OLSON, R. E., and DVORACEK, D. C. Frozen food locker plants and home freezers in Minnesota. *Minn. U. Agr. Ext. B.* 259,16 p. June 1950. 275.29 M66S
- 23539 PAVCEK, P. L. Technical achievements in the German feed and food yeast industry. *Wallerstein Lab. Commun.* 13:369-378. Dec.1950. 390.9 W15
- 23540 PORTUGAL. INSTITUTO NACIONAL DE ESTATÍSTICA. Estatística industrial, 1949; statistique industrielle. Lisboa,1950. 470 p. 264 F49E1  
Secondary agricultural industries.
- 23541 POWERS, F. A wholesale grocer sizes up the 1951 canner. *Canner* 111(25):13-14. Dec.23,1950. 286.83 C16
- 23542 RAMSTAD, P. E. Effects of processing and storage of foods on starches and proteins. (Abs.) *Canning Trade* 73(26):16. Jan.15,1951. 286.83 T67
- 23543 ROUCHY. Des antiseptiques employés comme conservateurs des produits alimentaires. *B. Econ. et Social de la Tunisie* 46:31-34. Nov.1950. 280.8 B874
- 23544 SORGATO, I. Production de furfural en phase liquide. *Indus. Agr. et Aliment.* 67:369-374. Aug./Oct. 1950. 383 As7  
English summary.
- 23545 SOS, J., and TARJAN, R. L'importance de la technique des industries agricoles dans la lutte contre la sous-alimentation. *Cong. Internatl. des Indus. Agr. [Rapports]* 1948(2):55-60. 1950. 388 C765
- 23546 STIER, T. J. B., SCALF, R. E., and PETER, C. J. Edible oils as sources of lipid anaerobic growth factors for distillers' yeast. *J. Cell. & Compar. Physiol.* 36:159-163. Oct.1950. 444.8 J822
- 23547 SWITZER, D. Now is the time to take stock—in more ways than one. *Quick Frozen Foods* 13(5):111-112. Dec.1950. 389.8 Q4  
Locker plants.
- 23548 SZEGO, E. Récupération des protéines des eaux résiduaires des féculeries. *Cong. Internatl. des Indus. Agr. [Rapports]* 1948(2):227-230. 1950. 388 C765
- 23549 TAKAHASHI, T. Nosanbutsu seizo jissu-ho [Practical method of manufacturing of agricultural products]. Tokyo, Chikyu Shuppan, 1949. 571 p. 309 T13
- 23550 TOELLER, H. Einiges über die temperaturüberwachung und selbsttätige regelung in der lebensmittel- und verpackungsindustrie. (Abs.) *Chem.-Ingen.-Tech.* 22:461. Nov.14,1950. 384 C428
- 23551 TRESSLER, D. K. Storing frozen foods in domestic refrigerators. *Pract. Home Econ.* 29:27,39,44. Jan.1951. 321.8 H752
- 23552 VASSOGNE, G. La mise en régime des installations frigorifiques. *Rev. Prat. du Froid* 6(3):9-10,18. Dec.1950. 295.8 R323
- 23553 WHAT does 1951 hold for frozen foods? *Quick Frozen Foods* 13(5):35-39. Dec.1950. 389.8 Q4
- 23554 WILLIAMS, E. W. Frozen foods in Europe; a personal report. II. The Continent. *Quick Frozen Foods* 13(4):43-47,110-113. Nov.1950. 389.8 Q4
- 23555 WOLFF, O. Stärkesirup und die bei der fabrikation auftretenden mängel. *Stärke* 2:251-255. Oct.1950. 309 St22
- 23556 WURZSCHMITT, B. Chemische stoffe zur haltbarmachung von lebensmitteln. *Chem.-Ztg.* 74:499-502. (Concl.) Aug.24,1950. 384 C427
- 23557 YAMAMOTO, R. Nettai nosanbutsu kako-ho [Method of manufacturing of tropical agricultural product products]. Tokyo, Asakura Shoten, 1950. 402 p. 309 Y1
- 23558 YOUNG, W. S. Modern canneries and new equipment. (In Portuguese.) *Fazenda* 45(12):25-26,48. Dec.1950. 6 H11P
- 23559 BAVARIA. STATISTISCHES LANDESAMT. Ergebnisse der landwirtschaftlichen betriebszählung 1949 in Bayern. Bayern in Zahlen 4(10,sup.2),12 p. Oct.1950. 265 B34
- 23560 CONNECTICUT. DEPT. OF FARMS AND MARKETS. DIV. OF MARKETS. Connecticut crop, livestock and marketing review for 1949. *Conn. Dept. Farms & Mkt. B.* 116,68 p. Nov.1950. 2 C76B  
Statistics.
- 23561 DENMARK. STATISTISKE DEPT. Statistisk årbog 1950. *Annuaire statistique* 1950. København,1950. 257.1 St2  
Table of contents and tables also in French.  
Includes agriculture.
- 23562 GNAEGI, H. El censo agropecuario servirá para planear la producción del interior de la República. *Rev. de Agr., Com. e Indus. [Panama]* 8(110):10. Oct. 1950. 8 R3291
- 23563 GUOTHFALVY-DORNER, A. Le recensement mondial des industries agricoles. *Cong. Internatl. des Indus. Agr. [Rapports]* 1948(2):84-99. 1950. 388 C765
- 23564 JUREEN, L. Production and consumption developments. (In Swedish.) Sweden. *Lantbrstyr. Meddel. Ser. C: Rationaliseringsavd.* 5:25-36. 1950. 11 Sw3Mr  
Statistics.
- 23565 KANSAS. BOARD OF AGRICULTURE. Kansas crop and livestock statistics, 1949; annual summary. Topeka,1950. 152 p. 2 K13Re  
U. S. Bur. of Agricultural Economics cooperating.
- 23566 MALTA. CENTRAL OFF. OF STATISTICS. Statistical abstract of the Maltese Islands, year 1949. Valletta,1950. 106 p. 256.02 M293  
Agricultural statistics included.
- 23567 MOZAMBIQUE. REPARTIÇÃO TÉCNICA DE ESTATÍSTICA. Anuário estatístico, anuaire statistique ano XXI, 1948, XXIIème année. Lourenço Marques,1950. 637 p. 270 M874  
Contains agricultural statistics.
- 23568 NORTH DAKOTA. DEPT. OF AGRICULTURE AND LABOR. Compiled agricultural statistics of North Dakota for the period from July 1, 1948 to June 30, 1950. Bismarck,1950. 136 p. 2 N812R
- 23569 ÖSTERREICHISCHES INSTITUT FÜR WIRTSCHAFTSFORSCHUNG. Gesamtschau der österreichischen wirtschaft in den jahren 1948 und 1949; versuch einer volkswirtschaftlichen bilanz. *Österr. Inst. f. Wirtforsch. Sonderh.* 7,80 p. 1950. 280.9 V872S  
Includes food, agriculture, and forestry.
- 23570 PENNSYLVANIA. DEPT. OF AGRICULTURE. Pennsylvania crop and livestock report 1949. Pa. Dept. Agr. B. 33(5),35 p. Sept./Oct.1950. 2 P38B  
Statistics.
- 23571 PORTUGAL. INSTITUTO NACIONAL DE ESTATÍSTICA. Anuário estatístico, 1949, anuaire statistique. Lisboa,1950. 394 p. 264 F49A  
Agricultural statistics included.
- 23572 SANTANDER, COLOMBIA. DIRECCIÓN DEPT. DE ESTADÍSTICA. Anuario estadístico de Santander, 1948. Bucaramanga,1950. 101 p. 255.5 C7153  
Agricultural statistics included.
- 23573 SONDRIO in cifre [Sondrio in figures]. *Rass. Econ. della Prov. di Sondrio* 3(10/11,sup.),40 p. Oct./Nov. 1950. 287 So5  
Agricultural statistics.
- 23574 SOUTH AUSTRALIA. STATISTICAL OFF. Rural production, 1949-50. *So. Austral. Statist. Off. B.* 15,5 p. 1950. 271.4 St2Ru  
Agricultural statistics.
- 23575 SPANISH WEST AFRICA. SECRETARIA GENERAL. Sahara Espanol: anuario estadístico 1949. Sidi Ifni, 1950. 263 p. 270 Sp22  
Contains statistics of agriculture.
- 23576 U. S. BUR. OF AGRICULTURAL ECONOMICS. Acreage, yield, and production of principal crops, by States, with comparisons; 1950 annual summary. Washington,1950. 97 p. 1.9 St2Cb
- 23577 VERHOEVEN, P. Individual and overall production. (In Dutch.) *Stamboeker* 32:101. Aug.17,1950. 43.8 V58  
Statistics.
- 23578 WAHLFISK, K. O. Production and consumption of the more important agricultural products during the year 1949-50. (In Swedish.) Sweden. *Stat. Jordbr-nämnd. Jordbrekon. Meddel.* 12:227-287. Oct.1950. 257.3 J76



23579 WIRTH. Aus der landwirtschaft. Statist. Monatsh. Württemberg-Baden 4:304-305. Sept. 1950. 265 St24  
Statistics.

23580 WIRTH. Die versorgungslage bei wichtigen nahrungs- und futtermitteln in Württemberg-Baden. Statist. Monatsh. Württemberg-Baden 4:285-287. Sept. 1950. 265 St24  
Statistical.

#### BEVERAGES AND CONDIMENTS

23581 AMERICAN Brewer register section for 1951. Amer. Brewer 83(12, pt. 2), 100 p. Dec. 1950. 390.8 Am3  
Directory of supplies in the brewing industry.

23582 ANDRADE, T. DE. Coffee—keystone of the Americas. Coffee & Tea Indus. 73(11):35, 41. Nov. 1950. 389.8 Sp4

23583 ANISANSEL, A. A. Old economic theories on coffee financing in extreme times no longer hold true. Coffee & Tea Indus. 73(11):18, 76. Nov. 1950. 389.8 Sp4  
Prices.

23584 ARIOUX, A. J. Perspectives. Féd. Natl. du Com. des Cafés Verts. B. Trimes. 1950(8):1-2. Oct. 1950. 286.3689 F31  
Coffee.

23585 ATKINSON, R. E. The coffee exchange—and prices. Coffee & Tea Indus. 73(11):16. Nov. 1950. 389.8 Sp4

23586 AUSTRALIA. COMMONWEALTH BUR. OF CENSUS AND STATISTICS. Breweries. Austral. Commonwealth Bur. Census & Statist. Mfg. Indus. 26, 7 p. Oct. 9, 1950. 271 Au72Ma

23587 AUSTRALIA. COMMONWEALTH BUR. OF CENSUS AND STATISTICS. Wineries and distilleries. Austral. Commonwealth Bur. Census & Statist. Mfg. Indus. 36, 10 p. Oct. 12, 1950. 271 Au72Ma

23588 BAETSLE, R. Une méthode biologique de recherche des antiseptiques et des désinfectants dans la bière. Fermentatio 1950:29-34. 390.8 F38

23589 BALZAC, R. P. Market patterns in Colombian coffee. Coffee & Tea Indus. 73(11):47, 96. Nov. 1950. 389.8 Sp4

23590 BARINI-BANCHI, G. Direct determination of phosphorus in wines by colorimetric method. (In Italian.) (Abs.) Chim. & Indus. 64(3, spec. no.):103. Sept. 1950. 383 C49

23591 BARINI-BANCHI, G. Direct iron determination in red wines by colorimetric method. (In Italian.) (Abs.) Chim. & Indus. 64(3, spec. no.):103. Sept. 1950. 383 C42

23592 BECKER, H. Etwas vom kellerschimmel. Weinbau 5:316. Aug. 20, 1950. 390.8 W432

23593 BERG, H. W. Heat treatment of musts. Wines & Vines 31(6):24-26. June 1950. 95.8 C122

23594 BERTI, L. A. Canned wine: past experience and future possibilities. Wines & Vines 31(12):22. Dec. 1950. 95.8 C122

23595 BERTI, L. A. The effect of packaging on quality. Wines & Vines 31(11):24-25. Nov. 1950. 95.8 C122

23596 BIEBER, H. Amtliche moststatistik des jahrganges 1948 für das fränkische weinbaugebiet. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 91:359-360. Nov. 1950. 384 Z39

23597 BILZ, A. Einladung zum weinbaukongress 1950. Weinbau 5:269-270. July 16, 1950. 390.8 W432

23598 BISHOP, L. R. Proposed revision of the Lovibond "52 series" of glass slides for the measurement of the colour of worts and beers. Inst. Brewing J. 56:373-382. Nov./Dec. 1950. 390.9 In7

23599 CACERES DIAZ, F. Problemas yungueños: el café y su comercio. Campo [La Paz] 4(40/41):19, 21, 23, 25. Aug./Sept. 1950. 9.1 C15

23600 CANSTEIN, FREIHERR VON. Die betreuung des weinbaues im Bundesministerium für Ernährung, Landwirtschaft und Forsten. Weinbau 5:379-380. Sept. 17, 1950. 390.8 W432

23601 CARRION, P. El aroma de los vinos finos. Semana Vitivinica 5(212):2-3. July 22, 1950. 95.8 Se5  
Also in Vinos, Viñas y Frutas 45:238-239. Nov. 1950. 9 Ag89

23602 CARRION, P. La degustación de los vinos. Semana Vitivinica 5(214):2-3. Aug. 5, 1950. 95.8 Se5

23603 CEYLON. TEA CONTROLLER. Administration report for the seventeenth year of restriction, April 1, 1949, to March 31, 1950. Colombo, 1950. 7 p. 286.3689 C332

23604 CHABOT, E. Finissage et débit des bières. Fermentatio 1950:57-80. 390.8 F38

23605 CHAUVET, J. L'arome des vins fins. France. Inst. Natl. des Appellations d'Origine des Vins et Eaux-vie. B. 34:8-17. June 1950. 390.9 F843

23606 COMPTON, G. C. Grano de oro. Tierra Libre (ser. 2) 14(10):1-2, 12, 14. Oct. 1950. 8 T443  
Coffee industry.

23607 COMPTON, R. The "tea partners" story; from a report to Canada's convention on how 1950's biggest tea development came to be in the U. S. Coffee & Tea Indus. 73(12):67, 81. Dec. 1950. 389.8 Sp4  
23608 COMPTON, R. The world supply of tea. Coffee & Tea Indus. 73(11):105-106, 120-121. Nov. 1950. 389.8 Sp4

23609 JONGRÈS INTERNATIONAL DE LA VIGNE ET DU VIN, 6, ATHENS, 1950. Comptes rendus des travaux. Off. Internatl. du Vin. B. 23(236):10-42. Oct. 1950. 390.8 B87

23610 CONGRÈS INTERNATIONAL DE LA VIGNE ET DU VIN, 6, ATHENS, 1950. Rapports. Off. Internatl. du Vin. B. 23(237):27-125. Nov. 1950. 390.8 B87

23611 CRUZ LLANOS, R. DE LA. La industria de los aguardientes en Lunahuana; sugerencias para obtener mejores rendimientos. Cong. Peruano de Quim. Actas y Trab. 1949(2):588-594. 385 C763  
Grape and cola products.

23612 CRUZ LLANOS, R. DE LA. La industria de los vinos dulces en Lunahuana. Cong. Peruano de Quim. Actas y Trab. 1949(2):599-602. 385 C763

23613 CRUZ R., C. Fabricación de sidra champañizada. Agrario 15(416):28-29, 35; (417):18-19, 28. (Cont.) Sept.-Oct. 1950. 9.3 Ag85

23614 DALMASSO, G. The grape and wine situation examined by the Advisory Committee. (In Italian.) Colt. e Gior. Vinic. Ital. 96:284-285. Oct. 31, 1950. 16 C72

23615 DALMASSO, G. Is the Piedmont wine industry at a turning point? (In Italian.) Colt. e Gior. Vinic. Ital. 96:295-297. Nov. 15, 1950. 16 C72

23616 DEIBNER, L. Un nouveau procédé de submicrodosage iodométrique du fer, son application aux substances minérales ou organiques et, en particulier, aux vins, aux moûts de raisin et aus jus de fruits. Mikrochem. Ver. mit Mikrochim. Acta 35:488-515. Ref. Oct. 18, 1950. 384 M58  
English summary.

23617 DER DEUTSCHE Weinbaukongress. Weinbau 5:365-373. Sept. 17, 1950. 390.8 W432

23618 DICKINSON, O. SCRA is born; meet the Southern Coffee Roasters Association, the trade's newest regional group, formed earlier this year. Coffee & Tea Indus. 73(11):21, 76-77. Nov. 1950. 389.8 Sp4

23619 DIEL, J. Der deutsche weinbau am kongress-tage. Weinbau 5:381. Sept. 17, 1950. 390.8 W432

23620 DOMINICAN REPUBLIC. COMISIÓN DE DEFENSA DEL CAFÉ Y DEL CACAO. El cacao en la República Dominicana. Dominican Repub. Sec. de Estado de Econ. Nac. Rev. 11:5-6. July/Aug. 1950. 280.9 D712

23621 DUBLED, R. La production cafétière de l'Union Française et son avenir. Nouvelle Rev. Franc. d'Outre-Mer (n.s.) 42:195-197. Dec. 1950. 280.8 B873

23622 DURMISHIDZE, S. V. Oxidizing enzymes in grape pulp. (In Russian.) Vinodel. i Vinograd. SSSR. 10(8):29-30. Aug. 1950. 95.8 V77

23623 EMMERLING, W. A young U. S. coffee man visits Brazil. Coffee & Tea Indus. 73(11):75, 78; (12):17. Nov.-Dec. 1950. 389.8 Sp4

23624 ETIENNE, A. D., and BEYER, G. F. Determination of alcohol in wines and liqueurs. Assoc. Off. Agr. Chem. J. 33:1018-1020. Nov. 15, 1950. 381 As7

23625 FEDERICO, L. The origin of acetylmethylcarbinol of fermentation vinegars. (In Italian.) Cong. Internatl. des Indus. Agr. [Rapports] 1948(2):200-205. 1950. 388 C765

23626 FEDERICO, L. The Szent Gyorgyi system and the Krebs Johnson cycle in acetic fermentation. (In Italian.) Cong. Internatl. des Indus. Agr. [Rapports] 1948(2):206-207. 1950. 388 C765

23627 FEHRMANN, K. Zur sterilabfüllung. Brau-welt 1950:949-952. Nov. 9, 1950. 390.8 B732



- 23628 FLYGARE, R. Ratschläge für die nachträgliche verbesserung der weine. *Bad. Landwirt. Wehnl.* 117: 788. Nov.18,1950. 18 B142
- 23629 FREW, R. A. Wason's coffee "firsts." *Coffee & Tea Indus.* 73(12):19,27. Dec.1950. 389.8 Sp4 Innovations in the coffee industry.
- 23630 GAZTAMBIDE ARRILLAGA, C. El beneficio del café en Costa Rica. *Rev. del Café* 6(6):11. Nov.1950. 8 R3295
- 23631 GEISS, W. Über die verwendung von tanks zur weinbereitung. *Weinbau* 5:395-397. Sept.17,1950. 390.8 W432
- 23632 GEUE, K. Wo ist das fass undicht? Ein beitrage zur prüfung von fässern. *Brauwelt* 1950:959. Nov.9,1950. 390.8 B732
- 23633 GRAYDON, J. F. What of the tea bag? *Coffee & Tea Indus.* 73(12):65-66,71. Dec.1950. 389.8 Sp4
- 23634 GREENSTEIN, S. B. Get the real chocolate flavor; how to formulate chocolate products to get the rich chocolate flavor. *Amer. Perfumer & Essential Oil Rev.* 56:487-488. Dec.1950. 308.8 Am3
- 23635 GRULLY, E. DE. Les vins: les dernières mesures gouvernementales. *Prog. Agr. et Vitic.* 1950: 341-342. Dec.3/10,1950. 14 P94
- 23636 GUILHEM, H. La Blanquette de Limoux. *France. Inst. Natl. des Appellations d'Origine des Vins et Eaux-de-vie.* B. 34:25-34. June 1950. 390.9 F843
- 23637 GUYMON, J. F., and AMERINE, M. A. Organoleptic determination of quality in neutral brandy. *Wines & Vines* 31(12):27-28. Dec.1950. 95.8 C122
- 23638 HALL, M. M. Coffee trends on the West Coast. *Coffee & Tea Indus.* 73(11):33,62. Nov.1950. 389.8 Sp4
- 23639 HARLER, C. R. The drying of tea; a survey of the development of the firing process. *Nyasaland Agr. Q. J.* 9:9-25. Jan.1950. 24 N983
- 23640 HECK, P. Wine cork problems. *Wines & Vines* 31(11):25. Nov.1950. 95.8 C122
- 23641 HENRI, C. Faut-il rajouter l'étiquette des vins? *Emballages* 20(122):122,125. Dec.1950. 309.8 Em1
- 23642 HEUCKMANN, W. Bericht zur lage. *Weinbau* 5:457,484. Oct.1-15,1950. 390.8 W432
- 23643 HUBER, H. Wie soll der bauer seine obstweine behandeln? *Schweiz. Z. f. Obst- u. Weinbau* 59:453-455. Dec.9,1950. 80 Sch9
- 23644 JOLY, R. L. Le café appartient a la parfumerie. *Indus. de la Parfumerie* 5:498-502. Ref. Nov.1950. 308.8 In2
- Includes the chemical analysis of coffee.
- 23645 JUNG, H. Weinreise mit offenen augen. *Weinbau* 5:398-399,401. Sept.17,1950. 390.8 W432
- 23646 KATKOFF, V. The Soviet grape and wine industry. *Wines & Vines* 31(11):12,(12):10-12. Ref. Nov.-Dec.1950. 95.8 C122
- 23647 KEMPF, N. W. Chocolate and the cocoa bean. *Mfg. Confectioner* 30(12):27-28. Dec.1950. 389.8 M31
- 23648 KESSELRING, H. Einige gedanken über die behandlung der 1950er rotweine. *Schweiz. Z. f. Obst- u. Weinbau* 59:461-462. Dec.9,1950. 80 Sch9
- 23649 KIELHÖFER, E. Hebung der kellerwirtschaft durch wirtschaftsberatung. *Weinbau* 5:392,394. Sept.17, 1950. 390.8 W432
- 23650 KLEBER, W. Über die kolloide und biologische stabilität der biere. *Brauwelt* 1950:973-976,999-1002. (Cont.) Nov.16-23,1950. 390.8 B732
- 23651 KOMAROVA, L. Effect of yeast quantity on fermentation of wort. (In Russian.) *Agrobiologiya* 1950 (5):138-140. Sept./Oct.1950. 20 Ag822
- Experiments with beer and grain malt.
- 23652 KRUGER, R. J. Pint or half-bottles will build wine sales. *Wine & Spirit* 19(12):7. Dec.1950. 390.8 W725
- 23653 LABONTE, C. Beobachtungen in Bad Kreuznach. *Weinbau* 5:488-489. Oct.15,1950. 390.8 W432
- Wine industry.
- 23654 LA FAYE, E. A. High prices have not cut into consumption of coffee as much as some anticipated. *Coffee & Tea Indus.* 73(11):18,79. Nov.1950. 389.8 Sp4
- 23655 LAMPE, H. J. Moderne pH-messung. *Brauwissenschaft* 1950:214-217. (To be cont.) Nov.1950. 390.8 B732
- 23656 LANEAU, R. La bière: denrée périssable. *Petit J. du Brasseur* 58:937-938,955-959. Dec.1-8,1950. 390.8 P44
- 23657 LEESON, E. South Australia's great wine fair: the Barossa Valley Vintage Festival. *Austral. To-day* 46: 33,35,37. 1951. 280.8 Au72
- 23658 LENIHAN, V. M. San Francisco fills the Nation's coffee cup. *California* 40(12):15,34-35. Dec. 1950. 280.8 C12
- 23659 LITVINOV, P. G. Methods for decreasing losses of wine. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(8):25-26. Aug.1950. 95.8 V77
- In wine manufacture.
- 23660 LOCKHART, E. E., and GAINER, J. M. Effect of monosodium glutamate on taste of pure sucrose and sodium chloride. *Food Res.* 15:459-464. Nov./Dec.1950. 389.8 F7322
- 23661 LOUIS-DELMARE, J. What's happening to coffee in Europe? *Coffee & Tea Indus.* 73(11):59. Nov. 1950. 389.8 Sp4
- 23662 LUDWIG, V. O. Alte weinlese-berichte. *Österr. Weinztg.* 5:214. (Cont.) Oct.30,1950. 390.8 Os7
- 23663 MACKAYE, P. Conditions never stay put in the coffee business. *Coffee & Tea Indus.* 73(12):14-15, 43,46-47,58. Dec.1950. 389.8 Sp4
- Care and handling.
- 23664 MACLEAN, J. A. R. Single-pod fermentation of cacao. *Nature [London]* 166:910. Nov.25,1950. 472 N21
- 23665 MALKIN, B. W. Coffee in the U. K. *Coffee & Tea Indus.* 73(11):61,66. Nov.1950. 389.8 Sp4
- 23666 MARTIN. Die weine der nahe und ihre be-handlung. *Weinbau* 5:376-377. Sept.17,1950. 390.8 W432
- Manufacture in Germany.
- 23667 MARTINI, L. P. Commercial scale experiments with flor sherry. *Wines & Vines* 31(11):20. Nov. 1950. 95.8 C122
- 23668 MAZZEI, J. E. Limits to what coffee men can do on world problems—but lots he can do on coffee quality. *Coffee & Tea Indus.* 73(11):19,25. Nov.1950. 389.8 Sp4
- 23669 MENDLIK, F. The importance of pH in brewing of beer. (In Dutch.) *Chem. Weekbl.* 46:916-919. Dec.23,1950. 385 C42
- 23670 MICHAEL. Der weinbau im Rumänien. *Weinbau* 5:433. Sept.17,1950. 390.8 W432
- 23671 MURET, A. Vins du Rhône. *Rev. Econ. Franco-Suisse* 30:413-415. Dec.1950. 287 Sw6
- 23672 NATIONAL COFFEE ASSOCIATION. [Proceedings of 1950 convention]. *Coffee & Tea Indus.* 73(11):8-64. Nov.1950. 389.8 Sp4
- 23673 NERO, G. DEL. Il vino e la sua lavorazione [Wine and its manufacture]. Ed. rev. & enl. by C. Mariani. Milano, Vallardi, 1950. 121 p. (Biblioteca di Cultura. 31) 390.1 N35
- 23674 NEUMAN, J. S. Coffee—and the public. *Coffee & Tea Indus.* 73(11):15. Nov.1950. 389.8 Sp4
- 23675 NIELSEN, T. More—and better—Angolas. *Coffee & Tea Indus.* 73(11):53,98. Nov.1950. 389.8 Sp4
- The coffee industry in Portuguese West Africa.
- 23676 O'CONNOR, J. M. Grading and classifying coffee for the U. S. Armed Forces. *Coffee & Tea Indus.* 73(11):12,58,79. Nov.1950. 389.8 Sp4
- 23677 ORIZET, L. Role de l'I.N.A.O. [Institut National des Appellations d'Origine]. *France. Inst. Natl. des Vins et Eaux-de-vie.* B. 34:18-24. June 1950. 390.9 F843
- 23678 ORIZET, L. La spiritualité du vin. *France. Inst. Natl. des Appellations d'Origine des Vins et Eaux-de-vie.* B. 34:44-46. June 1950. 390.9 F843
- 23679 PARREIRA, A. M. Factors in Brazil's coffee picture. *Coffee & Tea Indus.* 73(11):37. Nov.1950. 389.8 Sp4
- 23680 PESTEL, H. Appellation d'origine et marque commerciale. *Cong. Internatl. des Indus. Agr. [Rapports]* 1948(2):62-66. 1950. 388 C765
- Wine.
- 23681 PETSCHK, H. Eindrücke vom deutschen weinbaukongress in Bad Kreuznach. *Österr. Weinztg.* 5: 219-220. Nov.10,1950. 390.8 Os7
- 23682 PEYER, E. Garantiezeichen für die güte der weine. *Schweiz. Z. f. Obst- u. Weinbau* 59:443-445. Nov.25,1950. 80 Sch9
- 23683 PEYER, E. Weinbau, einmal anders. *Schweiz. Z. f. Obst- u. Weinbau* 59:463-466. Dec.9,1950. 80 Sch9



- 23684 PICARD, A. J. Le marché de l'alcool aux Pays Scandinaves. Agr. Charentais 5(22):1-2. Nov.30, 1950. 14 Ag825  
Alcoholic beverages.
- 23685 POLAK, E. B. The pepper situation. Coffee & Tea Indus. 73(11):115-116. Nov.1950. 389.8 Sp4
- 23686 PRAETORIUS, F. K. Die strukturellen veränderungen der weltberproduktion und Deutschlands exportmöglichkeiten. II. Brauwelt 1950:1053-1055. Dec.14,1950. 390.8 B732
- 23687 REA CLAVIJO, J. Materias primas vegetales para la industria cervicera en Bolivia. Campo [La Paz] 4(36/37):5,7-10,12-14. Apr./May.1950. 9.1 C15
- 23688 REBOLLEDO CLEMENT, J. 2,000,000-bag crop in ten years in Mexico's alm. Coffee & Tea Indus. 73(11):51. Nov.1950. 389.8 Sp4  
Coffee.
- 23689 REITER, R. Weinbau in der Steiermark. Osterr. Weinztg. 5:209-210. Oct.20,1950. 390.8 Os7
- 23690 RENTSCHLER, H., and SIMMLER, H. Die beeinflussung der farbe von rotweinen durch schöpfung mit gelatine. Schweiz. Z. f. Obst- u. Weinbau 59:442-443. Nov.25,1950. 80 Sch9
- 23691 RENTSCHLER, H. Über das braunwerden der 1950er weine. Schweiz. Z. f. Obst- u. Weinbau 59:455-458. Dec.9,1950. 80 Sch9
- 23692 RIBÉREAU-GAYON, J. La recherche et l'enseignement oenologiques à Bordeaux. Acad. d'Agr. de France. Compt. Rend. 36:522-524. July 5,1950. 14 P215Bc
- 23693 RICASOLI, L. Consumption and protection of fine wines. (In Italian.) Terra [Firenze] 61(45):2. Nov.5,1950. 16 T274
- 23694 RICHERT, W. S. Hydraulic presses boost efficiency. Wines & Vines 31(11):21-23. Nov.1950. 95.8 C122
- 23695 RINALDELLI, J. Disposiciones legales que reglamentan la elaboración y expendio del vino. Vinos, Vinas y Frutas 45:198-199. Oct.1950. 9 Ag89  
Argentina.
- 23696 ROBERTS, E. A. H. Present-day conditions of tea manufacture in N. E. India. Indian Tea Assoc. Proc. 7:18-27. 1949. 68.19 T562
- 23697 RÖDER, R. W. Soll man rotwein-malsche schwefeln? Weinbau 5:402. Sept.17,1950. 390.8 W432
- 23698 ROSSI, E. Selling Sonoma County. Wines & Vines 31(11):11. Nov.1950. 95.8 C122  
California.
- 23699 ST. JOHNSTON, J. H. The "protein" constituents of wort and their flocculation effects in brewing. II. Wallerstein Lab. Commun. 13:341-356. Ref. Dec.1950. 390.9 W15
- 23700 SAMARAKIS, B. A. Situation de la viticulture dans le monde. Vignoble Girondin 26(290):1-2. (Cont.) Sept.15,1950. 95.8 V683
- 23701 SBORGI, U., and NALDINI, L. Determination of caffeine (in coffee). (In Italian.) (Abs.) Chlm. & Indus. 64(3,spec.no.):72. Sept.1950. 383 C42
- 23702 SCHANDLER, L. Ausbau und kellerbehandlung der deutschen weine unter den gesichtspunkten ihrer redoxpotentiale. Weinbau 5:515-516. Nov.5,1950. 390.8 W432
- 23703 SCHEFFER, W. R., and MRAK, E. M. Yeast clouds in white wines. Wines & Vines 31(4):63-64. Apr. 1950. 95.8 C122
- 23704 SCHELLENBERG, A. Propaganda zugunsten der weine der kantone Schaffhausen, Zürich, Thurgau, Baselland und Aargau. Schweiz. Z. f. Obst- u. Weinbau 59:458-460. Dec.9,1950. 80 Sch9
- 23705 SCHOTT, M. Zukunftsaussichten des Ahrweinbaues. Weinbau 5:389. Sept.17,1950. 390.8 W432
- 23706 SEDLMAYR, F. Bockbier, kräuterheilbiere und das bayerische reinheitsgebot. Brauwelt 1950:955-956. (Concl.) Nov.9,1950. 390.8 B732
- 23707 SHUL'TS, O. R. Table wine manufacture in Southern Ukraine. (In Russian.) Vinodel. i Vinograd. SSSR. 10(8):30-34. Aug.1950. 95.8 V77
- 23708 SIMONDS, W. A. Slight gain likely in Hawaii's Kona coffee output in next few years. Coffee & Tea Indus. 73(11):54,98. Nov.1950. 389.8 Sp4
- 23709 SPEIGHT, W. L. Great wine is a work of art. Wine & Spirit 19(10):10,12. Oct.1950. 390.8 W725
- 23710 STEINBERGER, H. Neuartiger diffusionsputz für brauerel-keller usw. Brauwelt 1950:1025-1026. Nov.30,1950. 390.8 B732
- 23711 STEWART, E. D. Imported European beers. Amer. Brewer 83(12,pt.1):35-36,52. Dec.1950. 390.8 Am3  
Analysis and composition.
- 23712 STOCKLER DE QUEIROZ, A. Coffee promotion—and cooperation. Coffee & Tea Indus. 73(11):41. Nov.1950. 389.8 Sp4
- 23713 TASKER, A. The outlook for tea today. Coffee & Tea Indus. 73(12):63. Dec.1950. 389.8 Sp4
- 23714 TELEKI, A. Wie kann unserem weinbau geholfen werden? Osterr. Weinztg. 5:233-234. Nov.30, 1950. 390.8 Os7  
The industry.
- 23715 TESTA, J., and MAVEROFF, A. Las enzimas en la clarificación de los mostos. Vinos, Vinas y Frutas 45:200-207. Ref. Oct.1950. 9 Ag89
- 23716 TESTA, J. Need for coffee propaganda in Europe. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 25:589-594. Aug.1950. 68.29 Sa63
- 23717 TESTA, J. What is the real coffee production in the State of São Paulo? (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 25:676-678,680. Sept.1950. 68.29 Sa63
- 23718 TOURNEUR, M. La production du café à Madagascar est-elle menacée? Marchés Colon. 6:2993-2994. Dec.16,1950. 286.8 M33
- 23719 TRAUTH, F. Ein beitrage zum nachweis von hefeessweiln und hefewein. Z. f. Lebensmitl.-Untersuch. u. -Forsch. 91:350-358. Nov.1950. 384 Z39
- 23720 TROLLE, B. Experiments on bottom fermentation. III. Inst. Brewing J. 56:364-372. Nov./Dec.1950. 390.9 In7
- 23721 VALAER, P. J. Wines of the world. New York, Abelard Press, 1950. 576 p. Ref. 390.1 V232
- 23722 VALENCIA M., M. Guia para el cafetero. Soc. Antioqueña de Agr. B. Agr. 364/369:3150-3152. Dec.1949/May 1950. 9.4 Sol  
Harvesting, processing, and marketing.
- 23723 VECHER, A. S. Rapid method of checking fermentation in wine manufacture. (In Russian.) Vinodel. i Vinograd. SSSR. 10(8):27-28. Aug.1950. 95.8 V77
- 23724 VOIGTLÄNDER, H. Vom weinbau und weinhandel an der nahe. Weinbau 5:374-376. Sept.17,1950. 390.8 W432  
Germany.
- 23725 WAGNER, J. Die bedeutung der winzergenossenschaften. Weinbau 5:382-383. Sept.17,1950. 390.8 W432  
Germany.
- 23726 WAGNER, J. J. Le technicien devant les problèmes modernes de l'industrie. Petit J. du Brasseur 58:988-990. Dec.22,1950. 390.8 P44
- 23727 WILLIAMS, C. T. Chocolate and confectionery. London, Hill, 1950. 215 p. 389.252 W67
- 23728 ZARUBIN, V. A. Before the wine-manufacturing season. (In Russian.) Vinodel. i Vinograd. SSSR. 10(8):49-50. Aug.1950. 95.8 V77  
Conference of wine industry.
- 23729 ZOETE, DE, and GORTON. Tea producing companies 1950. London, 1950. 336 p. 225 T224

## DAIRY PRODUCTS

- 23730 BOEHL, V. Dairying; 28,000 milk cows play major role in farm income in southern Oregon counties. Oreg. Dept. Agr. Agr. B. 168:11-12. Dec.1950. 2 Or3
- 23731 BORELAND, A. A. Pennsylvania dairying and the Farm Show. Pa. Farmer 144:18-19. Jan.13,1951. 6 P383
- 23732 BOWYER, M. Melbourne dairy. Milk Indus. 31(5):89-92. Nov.1950. 44.8 M593
- 23733 BRYANT, C. B. A. Hats off to progress; "A milk organization's fieldman now is a most important person." Calif. Dairymen 30(23):30,32. Dec.16,1950. 44.8 C12
- 23734 CAPSTICK, E. The past one hundred years. Austral. Dairy Rev. 18(11):17,22;(12):17,22,24. (Cont.) Nov.1-Dec.1,1950. 44.8 Au73
- 23735 CONNELLY, R. G. Virginia dairying at mid-century. Va. State Dairymen's Assoc. Ann. Conv. 44:35, 37,39,41,43. 1950. 44.9 V81A
- 23736 DEVRIENDT, K. L. Questions d'actualité laitière Belg. Lait 4(16):3-4. Dec.1950. 44.8 B419
- 23737 DIBBERN, H. Erweiterungsbaue der molkerei Lemgo in Lippe. Mol.-Ztg. 4:1250-1252. Oct.19,1950. 44.8 M735



- 23733 DYSART, N. M. National Milk Producers Federation annual meeting. Calif. Dairyman 30(23):50. Dec.16,1950. 44.8 C12
- 23739 GEDDES, H. J. American dairy farming. Milk Bd. J. 1:622-623. Nov.15,1950. 44.8 M5934
- 23740 HANSEN, O. S. The ice cream exhibition in Oslo - the first in Norway - was a success. (In Danish.) Nord. Mejeri-Tidsskr. 16:116-117. 1950. 44.8 N752
- 23741 HARRISON, E. S. The plow is mightier than the cannon. Holstein-Friesian World 48:19,70. Jan.6, 1951. 43.8 H742
- Basic problems and responsibilities of agriculture and the dairy industry.
- 23742 HERZ, H. Eine milchwirtschaftliche blitzfahrt durch Westeuropa (herbst 1950). Schweiz. Milchztg. 76: 645-646. (Concl.) Dec.22,1950. 44.8 Sch92
- 23743 HOGAN, M. A. Impressions of the dairying industry in Great Britain. Milk Bd. J. 1:523,578-579. Oct.16,1950. 44.8 M5934
- 23744 HOMAN, J. L. European dairy policy. (In Dutch.) Landbouwk. Tijdschr. [Wageningen] 62:786-787. Oct.1950. 105.2 Or3
- 23745 HURT, L. M. The dairy industry. Calif. Dairyman 30(24):12-13. (To be cont.) Dec.30,1950. 44.8 C12
- 23746 JENSEN, K. K. Ghee. (In Danish.) Nord. Mejeri-Tidsskr. 16:143. 1950. 44.8 N752
- 23747 JIMISON, R. L. Dairy products for the United States personnel in Germany and Austria. Amer. Vet. Med. Assoc. J. 118:3-7. Jan.1951. 41.8 Am3
- Products supplied by Danish dairy industry.
- 23748 KOIVISTO, E. On the uniting of dairies. (In Finnish.) Teho 1950(9):32-35. 20 T98
- English summary, p. 58.
- Finland.
- 23749 LE ROI, D. Cheese making in Great Britain. Milk Indus. 31(5):69-72. Nov.1950. 44.8 M593
- 23750 MARZI, SALERNO, and BONTEMPO. The alimentary milk supply in each one of the Provinces of the Republic. (In Italian.) Mondo del Latte 1950:521-528. (Cont.) Oct.1950. 44.8 M74
- English summary.
- 23751 MASON, J. P., and ROBERTS, J. B. National policy affecting dairying and price supports on dairy products. Midwest. Milk Mktg. Conf. Proc. 5:77-86. 1950. 280.3449 M583
- 23752 MATA LLANA VENTURA, S. Realidad y camino de las industrias lácteas. Ganadería [Madrid] 8: 486-487. July 1950. 49 G15
- Spain.
- 23753 MATA LLANA VENTURA, S. Las reuniones de la Federación Internacional de Lechería. Siembra [Madrid] 6(10):20-21. Oct.1950. 15 S11
- 23754 MINUT, J. La industria lechera en el Brasil. II. Asoc. Rur. del Uruguay. Rev. 77(11):18-22,24-26. Nov.1950. 9.9 As5
- 23755 PAPIN, J. Propos sur le lait de mon petit déjeuner. Paysan Franç. 26(395):8-9. Nov.1950. 14 P29
- French dairy industry.
- 23756 PEEL, I. Fifty years progress in the goat industry. Calif. Dairyman 30(23):44,65. Dec.16,1950. 44.8 C12
- Dairy goats.
- 23757 PERRY, R. A. Yesterday's problems are still with us! Ice Cream Trade J. 46(11):73-74,114,117,119. Nov.1950. 389.8 Ic2
- 23758 PIZZI, G. The dairy-school of Novegno. (In Italian.) Cam. di Com. Indus. e Agr. Vicenza. Not. Econ. 5(20):7. Oct.16,1950. 287 V662
- 23759 RICHARDS, P. What defense effort means to dairymen. (Excerpts.) Milk News Wk. 36(11):13-14. Dec.8,1950. 44.8 C124
- 23760 SKERTCHLY, C. Ice Cream Alliance Conference. Milk Indus. 31(5):82-84. Nov.1950. 44.8 M593
- 23761 SONKIN, H. Dairy apprentices and the dairy school. (In Swedish.) Mejeritidskrift 12:33-34. Apr. 1950. 44.8 M472
- Finland.
- 23762 STAZZI, P. Discussing livestock conferences and shows. (In Italian.) B. dell'Agr. 84(23):1. Dec.1, 1950. 16 B87
- Observations on the Lombardy dairy industry.
- 23763 THORNTON-KEMSLEY, C. Some aspects of Scotland's dairy industry. Dairyman 68:11-13. Jan.1951. 44.8 D1426
- 23764 TURNBULL, J. S. Canada needs—a dairy policy. I. Canad. Dairy & Ice Cream J. 29(12):70,72,74, 78. Dec.1950. 44.8 C162
- 23765 TWOMEY, T. P. J. The progress of the town-milk industry. New Zeal. J. Agr. 81:303-306. Oct.1950. 23 N48J
- 23766 VAN BOMEL, L. A. The dairy industry's opportunity. Calif. Dairyman 30(23):36. Dec.16,1950. 44.8 C12
- 23767 VIRGINIA STATE DAIRYMEN'S ASSOCIATION. Forty-fourth annual convention, January 18 and 19, 1951. Richmond,1950. 60 p. 44.9 V81A
- 23768 WHITTIER, E. O., and WEBB, B. H. By-products from milk. New York, Reinhold, 1950. 317 p. Ref. 44 W61
- 23769 WIRTHMORE DAIRY SERV. DEPT. Better dairying. Ed. 4. Boston, Cox, 1950. 108 p. 44 W74
- 23770 WOOD, C. A. The dairy industry has a job to do. Dairy World [Chicago] 29(7):16-18. Dec.1950. 44.8 D1423
- 23771 YSTGAARD, O. M. American dairy industry. (In Norwegian.) Meieriposten 39:883-887. (To be cont.) Dec.16,1950. 44.8 M47

# Analysis and Composition

- 23772 AGUAROD, J. Sugerencias a los comentarios que de la fórmula de Fleisschmann hace el Profesor E. Muller Hoessli. An. de Bromatología 2:271-279. 1950. 389.8 An1
- English summary.
- Milk analysis.
- 23773 BURGWALD, L. H. A new Babcock test for milk. Midwest. Milk Mktg. Conf. Proc. 5:36-37. 1950. 280.3449 M583
- 23774 DAVIS, J. G. Progress in dairy chemistry. II. Food Mfr. 25:495-498. Ref. Dec.1,1950. 389.8 F736
- 23775 DECKER, C. W. Analysis of chocolate ice cream. Ice Cream Field 56(6):52,54,56,79. Dec.1950. 389.8 Ic23
- 23776 DICKSON, G. E. Report of Committee Verifying Weights and Tests of Producers' Milk. Midwest. Milk Mktg. Conf. Proc. 5:33-36. 1950. 280.3449 M583
- 23777 DOUGHTY, R. H. Culture media. Milk Indus. 31(6):60-62. Dec.1950. 44.8 M593
- Bacterial research in the dairy industry.
- 23778 DRU, R., and BOREY, F. Solubilité et viscosité des caséines. (Abs.) Chim. & Indus. 64(3,spec.no.): 109. Sept.1950. 383 C42
- 23779 DUMAIS, R. L'épreuve à la résazurine. Québec Lait. 9(11):14-18. Nov.1950. 44.8 Q3
- Milk.
- 23780 GERSHENFELD, L., and UCKO, B. Fat determinations in milk and milk products. J. Milk & Food Technol. 13:342-343. Nov./Dec.1950. 44.8 J824
- 23781 GÓMEZ H., C. Importancia al análisis bacteriológico de "quesos frescos." Cong. Peruano de Quím. Actas y Trab. 1949(2):481-482. 385 C763
- 23782 GONZÁLEZ CANTISANO, A. B. Prueba de fermentación; su importancia en la elaboración de quesos. Res 18:25455. Nov.5,1950. 286.85 R31
- 23783 GRANNAS, J. The salt content of butter. (In Swedish.) Mejeritidskrift 12:80-82. Aug.1950. 44.8 M472
- 23784 HERZER, H. Untersuchungen über die hitzeresistenz von 44 bovinen tuberkelbakterienstämmen gegen 75 bis 76 grad temperatur in milch. Lebensmittel-tierarzt 1:152-158. Oct.1950. 41.8 L49
- 23785 JARROUSSE, H., LAMBERT, P., and PETRANSXIENE, D. Étude de la résistance thermique de la phosphatase dans le lait et la crème non acides. Acad. d'Agr. de France. Compt. Rend. 36:548-551. Oct.11/18, 1950. 14 P215Bc
- 23786 JARROUSSE, H., LAMBERT, P., and PETRANSXIENE, D. Mise en évidence dans la crème de phosphatases microbiennes thermorésistantes. Acad. d'Agr. de France. Compt. Rend. 36:551-553. Oct.11/18, 1950. 14 P215Bc
- 23787 KATZNELSON, H., and WHITE, A. H. Nutritional requirements of Pseudomonas nigricans as related to growth and pigment production. Canad. J. Res. Sect. C, Bot. Sci. 28:706-715. Ref. Dec.1950. 470 C16C
- On butter.
- 23788 KENNEDY, L., and WEISER, H. Some observations on bacteria isolated from milk that grow within a psychrophilic temperature range. J. Milk & Food Technol. 13:353-357. Ref. Nov./Dec.1950. 44.8 J824



- 23799 LEVINE, B. S. Improving staining procedures in the direct microscopic examination of milk. *J. Milk & Food Technol.* 13:321-328,331. Ref. Nov./Dec.1950. 44.8 J824
- 23790 LEVITAN, M. Importance of simple laboratory tests. *Creamery Coop.* [Los Angeles] 1951:9-11. Jan. 1951. 280.28 C86
- 23791 MACY, I. G., KELLEY, H., and SLOAN, R. The composition of milks; a compilation of the comparative composition and properties of human, cow, and goat milk, colostrum, and transitional milk. *Natl. Res. Council. B.* 119,64 p. Jan.1950. 330.9 N21
- 23792 MATTSSON, S. Bestämning av flyktiga syror i ost. Determination of volatile acids of cheese. *Alnarps Lantbr.-Mejeri- och Trädgårdst. Stat. Mejeriförsök. Meddel.* 27,14 p. 1950. 44.9 AL6  
English summary.
- 23793 NEWBOULD, F. H. S. A simple spinner for roll tubes used in estimating bacterial populations. *Canad. J. Res. Sect. F, Technol.* 28:464-467. Dec.1950. 470 C16F  
May be used for milk tests.
- 23794 NIEMAN, C., and GROOT, E. H. On cholesterol and cholesterol esters in butter. *Acta Physiol. et Pharmacol. Neerland.* 1:488-501. Ref. 1950. 448.8 Ac83
- 23795 PELTOLA, E. Factors influencing the dry matter content of Emmental cheese. (In Swedish.) *Mejeritidskrift* 12:51-53. June 1950. 44.8 M472
- 23796 PFÄFFLI, E. Einstellen des kessimilchfettgehaltes ohne rechenstift. *Schweiz. Milchztg.* 76:590-591. Nov.21,1950. 44.8 Sch92
- 23797 POZZI-ESCOT, M. E. Observaciones sobre la práctica de la reacción de Storch. *Cong. Peruano de Quim. Actas y Trab.* 1949(2):538-541. 385 C763
- 23798 POZZI-ESCOT, M. E. Procedimiento mecánico de determinación del agua de incorporación en las mantequillas para el uso del control diario de fabricación. *Cong. Peruano de Quim. Actas y Trab.* 1949(2):542-546. 385 C763
- 23799 ROEDER, G. Studien über die säure- und salzverhältnisse in milch und molke. *Milchwissenschaft* 5:391-400. (To be cont.) Nov.1950 44.8 M5933
- 23800 ROSSI LEMA, L., and PÉREZ NOBLE, C. Dosado de la materia grasa en la leche por el método de Magliano, por adaptación del lactobutírometro de Gerber. *U. de la Repúb. Facul. de Vet. An.* 5:253-260. 1948/49. 41.9 M764  
English summary.
- 23801 SACKETT, D., and GRALAK, G. G. The value of the coliform count in the routine examination of milk and dairy products. *J. Milk & Food Technol.* 13:350-352. Nov./Dec.1950. 44.8 J824
- 23802 SARUDI, I. Ein vereinfachtes verfahren zur ermittlung der korrektur für das niederschlagsvolumen bei der polarimetrischen milchzuckerbestimmung in milch. *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 91:342-346. Nov.1950. 384 Z39
- 23803 SCHAIN, P. Determining the butterfat content of milk. *Milk Dealer* 40(3):49-50,54,56,58. Dec.1950. 44.8 M595
- 23804 SCHNEIDER, K. pH-bestimmungen in der milchwirtschaftlichen praxis. *Schweiz. Milchztg.* 76:597. Nov.24,1950. 44.8 Sch92  
Milk.
- 23805 SCHWARZ, G., and THOMASOW, J. Über aromastoffe des tilsiter käses. *Milchwissenschaft* 5:376-379. (To be cont.) Nov.1950. 44.8 M5933
- 23806 SIMONART, and HAMMENECKER, J. Recherches microbiologiques sur la filtration du lait à la ferme. *Agricultura [Louvain]* 48:105-115. Ref. Nov. 1950. 18 R32
- 23807 SOTIER, A. L. The control of microorganism populations. I-II. *Milk Dealer* 40(2):41-42,84-85;(3):45-46,59-60. Nov.-Dec.1950. 44.8 M595  
Bacteria, yeasts, and molds.
- 23808 TUFTS, L. E., DARLING, G. W., and KIMBALL, R. H. The determination of gamma benzene hexachloride in unhomogenized milk and in beef fat. *Assoc. Off. Agr. Chem. J.* 33:976-986. Nov.15,1950. 381 As7
- 23809 VALEN, A., and VALEN, I. The composition of cow and goat's milk in Norwegian milk plants. (In Norwegian.) *Mejeriposten* 39:793-797. (To be cont.) Nov.11,1950. 44.8 M47
- 23810 VÁSQUEZ G., J. Estudios preliminares sobre la composición de la leche fresca que se consume en la Ciudad de Lima. *Cong. Peruano de Quim. Actas y Trab.* 1949(2):493-495. 385 C763
- Consumption and Utilization
- 23811 DECOUSSEMAKER, W. A propos des possibilités d'incorporation de la poudre de lait écrémé en panification. *Belg. Lait.* 4(16):5-7,9. (Concl.) Dec.1950. 44.8 B412
- 23812 FERNANDES, J. S. Utilization of whey. (In Portuguese.) *Chacaras e Quintais* 82:581-582. Nov.15, 1950. 9.2 C34
- 23813 GALLIKER, L. Ice cream: consumer preferences in the body and texture. *So. African Dairyman* 12:366,368. Dec.1950. 44.8 So822
- 23814 KEUNE, O. Wandlungen in der milchverwertung. *Übersicht* 1(2):15-16. Oct.1,1950. 18 Ub3  
Utilization in various countries.
- 23815 LLOYD, W. There's magic in milk. *West. Farm Life* 53(Annu. Livestock Rev. 1951):21,40-41. Jan. 1,1951. 6 R153  
By-products of milk.
- 23816 SPAGNOLI, A. The consumption of milk and relative cost in twenty Italian cities. (In Italian.) *Allevatore* 6(44):3. Nov.5,1950. 49 AL55
- 23817 WERNER, R. J. Milk consumption is up. *Calif. Dairyman* 30(23):29. Dec.16,1950. 44.8 C12
- Distribution, Marketing, and Transportation
- 23818 ALVIVA, J. La Cooperativa Lechera Provincial de Sevilla y la de productores del campo de San Jerónimo. *Cooperación [Madrid]* 104:34. Oct.1950. 280.28 C7875
- 23819 BALDWIN, C. H. As an outsider sees the [Dairymen's] League. *Metrop. Milk Prod. News* 10(11):10. Nov.1950. 280.28 M56
- 23820 BARTLETT, R. W., and others. Maintaining good working relations between the cooperatives, market administrators and land-grant colleges. *Midwest. Milk Mktg. Conf. Proc.* 5:38-50. 1950. 280.3449 M583  
A. W. Colebank, R. L. Duncan, and H. G. Eisman, joint authors.
- 23821 BERGFELD, A. J. Methods of determining costs and operational efficiency of milk distribution in New York City. In *U. S. Agricultural Research Admin. Marketing margins and efficiency*, p.96-104. Washington, 1950. 1-98 M343
- 23822 BISET. Ein organisierter europäischer milchmarkt, ein gebot der stunde. *Bas-Rhin Agr.* 5:580. Dec.2,1950. 14 B29
- 23823 BRODY, C. L. Farm bureau leader praises Dairyland [Cooperative Creamery Co.] for its successes. *Dairyland Coop. Rev.* 1950:8. Aug.1950. 44.8 D1453
- 23824 CHELQUIST, G., and others. Experiences in cooperative marketing of dairy products: transportation. *Midwest. Milk Mktg. Conf. Proc.* 5:12-19. 1950. 280.3449 M583  
J. W. Hartsock, E. Teal, and J. W. Winfrey, joint authors.
- 23825 CLINTON, N. Susan and the Milkman. *Calif. Dairyman* 30(23):22-23. Dec.16,1950. 44.8 C12  
A pamphlet on the dairy industry.
- 23826 COSGROVE, C. M. Why belong to Pure Milk Association? *Pure Milk* 24(11):6-7. Nov.1950. 280.28 P97
- 23827 DAIRYMEN'S LEAGUE COOPERATIVE ASSOCIATION. Report for fiscal year 1949-1950. *Metrop. Milk Prod. News* 10(11):11-13,16. Nov.1950. 280.28 M56
- 23828 FERNANDES, S. A model dairy organization. (In Portuguese.) *Cooperativismo [Rio de Janeiro]* 5(53):16. Nov.1950. 280.28 C7856  
A cooperative milk plant in Montevideo.
- 23829 GEIL, L. H. A power for more sales; start plans now for capitalizing on 1951 June Dairy Month merchandising and public relations campaign. *Calif. Dairyman* 30(23):38-39. Dec.16,1950. 44.8 C12
- 23830 HAMILTON, T. K. If I were a grocer—this is how I'd sell milk. *Dairy World [Chicago]* 29(7):8-9. Dec. 1950. 44.8 D1423
- 23831 HARMEL, L. En marge de la coopération laitière en Hollande. *Volx de l'Elevage (ser.3)* 6(65):1-2. Nov.10,1950. 44.8 Ac8
- 23832 HICKS, J. W. Milk delivery costs. *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1950:6. Nov.27,1950. 275.29 In2Em
- 23833 HIGGS, C. Trials of the milk retailer. *Times Survey Brit. Agr.* 1950:15. Oct.1950. 10 T48
- 23834 HIRSCH, D. E. Dairy co-ops still not content-ed. *News Farmer Coop.* 17(10):5,26. Jan.1951. 166.2 N47



23835 HOFER, H. Zur kenntnis des milchsammel-systems und der milchanlieferungsverhältnisse in der Schweiz. Schweiz. Milchztg. 76:633-634. Ref. Dec.15, 1950. 44.8 Sch92

23836 IMHÜLSEN, A. D. Butter sale and publicity. (In Dutch.) Landbouwk. Tijdschr. [Wageningen] 62:795-803. Oct.1950. 105.2 Or3

23837 JOHNSON, S., and HENRY, W. F. Using a formula to adjust milk hauling rates. C. M. P. A. Bulletin 30(376):2-3,6. Dec.1950. 44.9 C768

23838 KEUNE. Vier aktuelle themen für den milch-zeuger, milchverkauf ab hof - wirtschaftseigene futter-grundlage - tb-freie kühe - milchgeldauszahlung. Unser Milchvieh. Ausg. B/C 2(10):1. Oct.1950. 43.8 Un72 Germany.

23839 KOHR, L. A. About milk and milk dealers. Milk Dealer 40(3):62. Dec.1950. 44.8 M595

23840 KUNKEL, A. C. Half-gallons make good. Ice Cream Field 56(5):28,80. Nov.1950. 389.8 Ic23

23841 LAWSON, G. The National Milk Producers Federation. Skagit Co. Dairyman 28(4):5. Dec.1950. 280.28 Sk1

23842 LLOYD, A. G. The marketing of milk in New South Wales. Rev. Mktg. & Agr. Econ. (n.s.)18:205-237. Sept.1950. 286.8 N47M

23843 LUBER, H. Kritik an den milchzentralen. Deut. Milchhandels Ztg. 72:748-751. Dec.8,1950. 44.8 D48

23844 MAPP, L. C., and VARNEY, H. H. Pooling and paying producers. Midwest. Milk Mktg. Conf. Proc. 5:28-32. 1950. 280.3449 M583

23845 MICHIGAN MILK PRODUCERS ASSOCIATION. Annual report and proceedings, thirty-fourth annual meet-ing, November 2nd, 1950. Detroit?1950. 40 p. 280.2449 M58

23846 MIDWESTERN MILK MARKETING CONFER-ENCE. Proceedings, fifth annual conference, Ohio State University, Columbus, Ohio, March 21, 22, 23, 1950. Urbana?1950. 92 p. 280.3449 M583

23847 MULDOVAN, A. Is merchandising of butter lagging? So. African Dairyman 12:361,376. Dec.1950. 44.8 So822 Canada.

23848 POMEROY, B. A. Dairyland's Board president looks ahead to bright future. Dairyland Coop. Rev. 1950: 5. Aug.1950. 44.8 D1453

Dairyland Cooperative Creamery Co.

23849 QUACKENBUSH, E. R. What's a good milk routeman made of? Milk Dealer 40(3):43,64,66. Dec. 1950. 44.8 M595

23850 ROBERTSON, J. T. C. Scientific develop-ments in milk distribution. Milk Bd. J. 1:590-591,633. Nov.15,1950. 44.8 M5934

Also in So. African Dairyman 12:332-333. Nov.1950. 44.8 So822

23851 RYGER, E. J. Dairyland's high esteem as Mid-west member. Dairyland Coop. Rev. 1950:6. Aug. 1950. 44.8 D1453

23852 ST-GERMAIN, M. Enfin le beurre peut lutter a armes égales. B. des Agr. 46(11):18. Nov.1950. 7 B872

Public relations in the Canadian butter industry.

23853 SCOTT, G. D. Let's not leave "merchandising" out of milk selling. Milk Plant Mon. 39(12):86. Dec.1950. 44.8 C864

23854 SIEGHOLD, F. Molkereimilch-ab-hof-verkauf. Molk.-Ztg. 4:1245-1246. Oct.19,1950. 44.8 M735 Germany.

23855 SOCIÉTÉ ANONYME DES PRODUCTEURS SUISSES DE LAIT. Rapport sur l'exercice 1949/50. Brougg,1950. 24 p. 44.9 So13R

23856 SWENSON, H. F. Soft ice cream sales. Ice Cream Field 56(6):46,72-76. Dec.1950. 389.8 Ic23

23857 SYMONDS, F. R. The selling of milk by re-tail. Dairy Indus. 15:1139-1141,1163. Nov.1950. 44.8 D1427

23858 THOM, E. Milk distribution through vending machines. Milk Dealer 40(3):38-39,72-74,76-77. Dec. 1950. 44.8 M595

23859 VARNEY, H. H. Outside markets. Mich. Milk Prod. Assoc. Annu. Rpt. & Proc. 34:19-23. 1950. 280.2449 M58

23860 WALKER, F. Early days of developing our Dairyland. Dairyland Coop. Rev. 1950:3-4. Aug.1950. 44.8 D1453

Dairyland Cooperative Creamery Co.

23861 WOOD, C. A. The dairy industry has a job to do. Calif. Dairyman 30(23):72-73. Dec.16,1950. 44.8 C12

Public relations.

Also in Milk Plant Mon. 39(12):54-55. Dec.1950. 44.8 C864; Ice Cream Field 56(6):38,78. Dec.1950. 389.8 Ic23

23862 YOHALEM, A. E. Automatic vending. Ice Cream Field 56(5):58,81. Nov.1950. 389.8 Ic23

23863 YOHE, R. S. Farm monopoly; farmers' organ-izations control the entire milk supply in Norway. Prairie Farmer, Gen. Ed. 123:22-23. Jan.6,1951. 6 P883 Similar title in Nebr. Farmer 92(23):7. Dec.2,1950. 6 N27

23864 YOUNG, R. A. Milk sales go up as a result of F.F.A. demonstration experiment. Agr. Educ. Mag. 23: 130-131. Dec.1950. 275.8 Ag8

#### Grading, Inspection, Standardization, and Quality

23865 ADAMS, H. S. Research in the field of quality standards. Midwest. Milk Mktg. Conf. Proc. 5:3-6. 1950. 280.3449 M583

23866 ALLAHABAD AGRICULTURAL INSTITUTE. Third annual report on quality improvement in milk and milk products and its costing for the period 1 April, 1949 to 31 March, 1950. I-II. Allahabad, U. P.,1950. 2 v. 44.9 AL52

23867 BAILEY, J. W. Winter odors in raw milk. Guernsey Breeders' J. [Peterborough] 81:50-51. Jan.3, 1951. 43.8 G93

23868 BECK, L. D. Sediment control in cream and butter. N. Dak. Agr. Expt. Sta. Bimon. B. 13:54-56. Nov./Dec.1950. 100 N813B

23869 BUXTORF, A. DDT-insektizide und milch. Nachrbl. des Deut. Pflanzenschutzdienstes 2:9-11. Jan.1950. 44.2.9 B832

23870 DAHLBERG, A. C., and ADAMS, H. S. Sanitary milk and ice cream legislation in the United States; a study of laws and ordinances establishing sanitary stand-ards for milk, cream, and ice cream. Natl. Res. Council. B. 121,59 p. July 1950. 330.9 N21

23871 DICKSON, J. T. Sectional contamination in butter. Agr. Gaz. N. S. Wales 61:563-564. Nov.1,1950. 23 N472

23872 DOHNER, D. M. Inter-market strains result-ing from grade A ordinances. Midwest. Milk Mktg. Conf. Proc. 5:1-2. 1950. 280.3449 M583

23873 HENRIQUES, E. Why so much third and fourth class milk now when it is cold? (In Danish.) Dansk Landbr. 69:544. Oct.26,1950. 280.28 V91

23874 HOOD, E. G., GIBSON, C. A., and SMITH, K. N. Rind rot or wet end in Canadian Cheddar cheese. Canad. Dairy & Ice Cream J. 29(12):60,62,64,66,68,78. Dec. 1950. 44.8 C162

23875 HORWOOD, M. P. A comparative study of milk from a refrigerated bulk dispenser and similar milk delivered in sealed bottles. J. Milk & Food Technol. 13:367-371. Nov./Dec.1950. 44.8 J824

23876 INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS. Statement before the Com-mittee to Investigate Use of Chemicals in Food Products, U. S. House of Representatives, December 8, 1950. South. Dairy Prod. J. 49:51,60-62. Jan.1951. 44.8 So83

23877 KLINGENBERG, S. S. Judging our dairy prod-ucts. (In Norwegian.) Meieriposten 39:887-890. Dec.16, 1950. 44.8 M47

23878 LANGE, W. Zur frage der antioxydantien bei milch- und rahmpulver. Süddeut. Molk.-Ztg. 71:1123-1126. Ref. Aug.11,1950. 44.8 Su2

23879 LIENDO, C. Ensayo de reglamentación broma-tológica en la venta de quesos. Cong. Peruano de Quim. Actas y Trab. 1949(2):515-518. 385 C763

23880 MANDT, E., and HILBERT, M. S. A study in the selective method of farm inspection. Milk Plant Mon. 39(11):56-58,60. Nov.1950. 44.8 C864

Milk.

23881 MANN, H. D., CARTER, R. H., and ELY, R. E. The DDT content of milk products. J. Milk & Food Technol. 13:340-341. Nov./Dec.1950. 44.8 J824

23882 MARCUS, T. Some causes for poor cream quality. Milk Dealer 40(2):114-116. Nov.1950. 44.8 M595

23883 NATVIG, H. Public Health control of ice cream. (In Norwegian.) Meieriposten 39:757-762,778-782,800-803. Oct.28-Nov.11,1950. 44.8 M47



- 23884 NELSON, J. A. Cheddar cheese defects. *Butter, Cheese & Milk Prod. J.* 42:28-29. Jan.1951. 286.85 B98Bu
- 23885 NELSON, J. A. Milk flavors. *Milk Plant Mon.* 39(11):38,40. Nov.1950. 44.8 C864
- 23886 PARODNECK, M. The inspection racket. *Noeast. Union Farmer* 9(11):4. Dec.1950. 280.28 F227
- Sanitary inspection in the milk industry.
- 23887 STEINER S., J. Sugestiones sobre el control de leches. *Rev. Nac. de Agr. [Bogotá]* 44(545):23-26. (To be cont.) Sept.1950. 9.4 R32
- 23888 TEAL, E. Testing and quality control. *Mich. Milk Prod. Assoc. Annu. Rpt. & Proc.* 34:24-26. 1950. 280.2449 M58
- 23889 THIELEMANS, G. La base juridique de l'activité de l'Office National du Lait. *Belg. Lait.* 4(16):4-5. Dec.1950. 44.8 B412
- 23890 WALLENFELDT, E. Wisconsin's minimum dairy standards. *Midwest. Milk Mktg. Conf. Proc.* 5:6-10. 1950. 280.3449 M583
- 23891 WILSON, G. S. Dairy research, the bacteriological grading of milk. *I. Dairy Indus.* 15:1166-1167. Nov.1950. 44.8 D1427
- Packing and Packaging
- 23892 JENSEN, J. M., and WATERSON, J. A method for measuring the cleanliness of milk cans. *J. Milk & Food Technol.* 13:332-335. Nov./Dec.1950. 44.8 J824
- 23893 KEESTRA, F. Packaging of butter. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 62:804-814. Oct.1950. 105.2 Or3
- 23894 SCHNITZLER, F. A. Your bottle washer vs. scale. *Dairy World [Chicago]* 29(7):24-25. Dec.1950. 44.8 D1423
- Prices, Price Control, and Rationing
- 23895 ANDERSON, D. Pricing milk under Federal orders. *Midwest. Milk Mktg. Conf. Proc.* 5:69-73. 1950. 280.3449 M583
- 23896 BROWNELL, F. G. The jug that jinxed high milk prices. *Reader's Digest* 58:101-104. Feb.1951. 110 R22
- 23897 DALRYMPLE, A. J. B. C. milk price boost raises controversial storm. *Farm & Ranch Rev.* 46(12):14-15. Dec.1950. 7 F223
- Canada.
- 23898 KELLEY, P. L., PERDUE, W., and WAGNER, G. W. Manufactured milk pricing. *Midwest. Milk Mktg. Conf. Proc.* 5:65-69. 1950. 280.3449 M583
- 23899 LAUREN, R. Delivery price for milk, 1948-1950. (In Swedish.) *Mejeritidskrift* 12:75-79. Aug.1950. 44.8 M472
- Finland.
- 23900 MYERS, W. I. Says milk prices will not lag. *Dairymen's League News* 34(26):3,16. Dec.26,1950. 44.8 D1432
- 23901 NELSON, G. T. A study of the classified system of pricing milk under Federal orders with particular reference to the Chicago and St. Louis marketing areas. *Mich. U. Microfilm Abs.* 10(4):67-68. 1950. 241.8 M58
- 23902 SIMMONS, H. F., WALLRICH, M. M., and WARNER, E. E. Fluid milk pricing. *Midwest. Milk Mktg. Conf. Proc.* 5:52-64. 1950. 280.3449 M583
- 23903 SKERTCHLY, C. T. T. prices. *Milk Indus.* 31(6):70-72. Dec.1950. 44.8 M593
- 23904 SPENCER, L. Some effects of Federal and State regulation of milk prices. *N. Y. Agr. Col. A. E.* 727,42 R. Jan.1951. 281.9 C81
- 23905 YOUNG, H. P. Boston milk prices clabbered by politics. *Metrop. Milk Prod. News* 10(11):7-8. Nov. 1950. 280.28 M56
- Processing and Storage
- 23906 ALONSO MOLINA, R. El saneamiento de la leche con el uso de las ondas ultrasónicas. *B. de Zootecnia* 6:270-272. Aug.1,1950. 41.9 So16
- 23907 BRUNNER, J. R., and MALLMANN, W. L. Effectiveness of dehydroacetic acid as a mold inhibitor on butter and cheese surfaces. *Mich. Agr. Expt. Sta. Q. B.* 33:127-142. Ref. Nov.1950. 100 M588
- 23908 CARPENTER, J. Modern wholesale ice cream manufacture. *Biscuit Maker & Plant Baker* 1:308-310. Nov.1950. 389.8 B54
- 23909 COPP, R. Trends in modern dairy equipment. *South. Dairy Prod. J.* 49:92-93,96-97. Jan.1951. 44.8 So83
- 23910 DAHLE, C. D., and LANDO, J. C. Report on ice cream shrinkage. (Excerpts.) *Confectionery-Ice Cream World* 44(25):14-16. Dec.22,1950. 389.8 C767
- 23911 DALEY, SIR A. Pasteurization and sterilization of milk. *Milk Indus.* 31(6):49-55. Dec.1950. 44.8 M593
- 23912 DAVEY, F. Dried buttermilk. *Austral. Milk & Dairy Prod. J.* 17(9/10):29-30. Sept./Oct.1950. 44.8 Au72
- 23913 DEPARTMENT of Agriculture research results in flavorful ice cream from buttermilk. *South. Dairy Prod. J.* 49:24,102. Jan.1951. 44.8 So83
- 23914 EVAPORATED MILK ASSOCIATION, CHICAGO. The evaporated milk industry, past, present, future, by F. E. Rice. Chicago, 1950. 32 p. 44 Ev123E
- 23915 GODBERSEN, G. Die beziehungen zwischen der tätigkeit der milchsäurebakterien und dem kochsalz bei der käsebereitung. *Milchwissenschaft* 5:379-383. Nov.1950. 44.8 M5933
- English summary.
- 23916 GONZÁLEZ, A. D. Progresos técnicos en la industria láctea norteamericana. *Ganadería [Madrid]* 8:547-548. Aug.1950. 49 G15
- Milk processing and equipment.
- 23917 GOODMAN, F. L. Refrigeration in dairy product factories. 1-2. *Refrig. J.* 4:810,812,814,817-818,820,882,884,886,888. Sept.-Oct.1950. 295.8 R255
- 23918 GROSSEN, M., and HEIMLICH, E. Die elektrifizierung der käserelen. *Schweiz. Milchztg.* 77:1-7. Jan.3,1951. 44.8 Sch92
- 23919 HAMON, P., and DENIEL, J. La beurrerie coopérative de la région de Loudéac. *Génie Rur.* 43:361-364. Nov.1950. 58.8 Au8
- Chiefly on butter manufacture.
- 23920 HANKINSON, D. J. Production costs. *Ice Cream Field* 56(5):32,89-91. Nov.1950. 389.8 Ic23
- 23921 HANSEN, H. C., WIGGINS, G. E., and BOYD, J. C. Modern methods of mastitis treatment cause trouble in the manufacture of fermented dairy products. *J. Milk & Food Technol.* 13:359-365. Nov./Dec.1950. 44.8 J824
- 23922 HANSEN, O. S. Production of ice cream with low bacteria count. (In Danish.) *Nord. Mejeri-Tidsskr.* 16:127-129. 1950. 44.8 N752
- 23923 HENDRICKX, H. La fabrication de quelques fromages en France. *Rev. de l'Agr.* 3:1197-1217. Ref. Nov.1950. 13 R322
- English summary.
- 23924 HIETARANTA, M. Butyric acid bacteria and butyric acid fermentation in cheese. (In Swedish.) *Nord. Mejeri-Tidsskr.* 16:110-115. Ref. 1950. 44.8 N752
- 23925 HOSTETTLER, H., and RÜEGGER, H. R. Untersuchungen über die lagerinnung des säurecaseins mit besonderer berücksichtigung der labgerinnung der milch. *Landwirt. Jahrb. der Schweiz.* 64:669-714. Ref. 1950. 17 L23
- English summary.
- 23926 KOPACZEWSKI, W. Problème de la conservation du lait. (Abs.) *Chim. & Indus.* 64(3,spec.no.):67. Sept.1950. 383 C42
- 23927 KRUK, H. Praktische käserlei: holländer käse. *Molk.-Ztg.* 4:1255-1256. (Cont.) Oct.19,1950. 44.8 M735
- 23928 LUNDSTEDT, E. Don't let quats ruin that flavor; their presence in cheese milk is now blamed for causing flat taste by curbing growth of aroma bacteria, but you can steer clear of it by simple rinsing procedure. *Food Indus.* 22:2056-2058. Dec.1950. 389.8 F737
- 23929 MCWILLIAMS, A. L., SCHIERING, R., and STICKLER, K. L. Ownership and operation of processing facilities. *Midwest. Milk Mktg. Conf. Proc.* 5:20-26. 1950. 280.3449 M583
- 23930 MATTSOON, R. The fat content in our cheese and the possibilities for regulating it. (In Swedish.) *Mejeritidskrift* 12:54-55. June 1950. 44.8 M472
- Finland.
- 23931 MONTEAUX, A. Premiers pas vers l'amélioration de la qualité du lait. *Rev. Prat. du Froid* 6(3):21-23. Dec.1950. 295.8 R323
- Includes refrigeration.
- 23932 MYRAKER, L. E. Rinsing of raw curd. (In Norwegian.) *Meieriposten* 39:829-831. Nov.25,1950. 44.8 M47
- In cheese manufacture.
- 23933 NAYLOR, R. W. The care of milk and cream for manufacturing purposes. *New Zeal. J. Agr.* 81:369-370. Oct.1950. 23 N48J



23934 OLSON, H. C. Preparing cream for frozen storage. *Ice Cream Field* 56(5):46,48,51. Nov.1950. 389.8 Ic23

23935 OLSSON, T. Möjligheter att förbättra smörrets konsistens. Methods to improve the consistency of summer butter. *Alnärps Lantbr.- Mejeri- och Trädgårdsinst. Stat. Mejeriförsök. Meddel.* 29,21 p. 1950. 44.9 AL6

English summary.

23936 PELTOLA, E., and MATTSON, R. Sterilization of milk with hydrogen peroxide and the usefulness of this method for the preparation of sterile cheese. (In Swedish.) *Mejeritidskrift* 12:27-31. Ref. Apr.1950. 44.8 M472

23937 PETTE, J. W. The Hofius-Richter process. (In Danish.) *Nord. Mejeri-Tidsskr.* 16:137-139. 1950. 44.8 N752

English summary.

For conservation of milk and cream.

23938 PROUTY, C. C. Inactivation of bacteriophage of the lactic acid streptococci at high and low pH levels. *J. Milk & Food Technol.* 13:329-331. Nov./Dec.1950. 44.9 J824

Starters.

23939 PUTNAM, G. W., and WAKEMAN, A. H. Dairy plant design and its relation to sanitation. *South. Dairy Prod. J.* 49:32,104-105. Jan.1951. 44.8 S083

23940 REID, A. W. Keeping a check on ice cream costings. *Dairyman* 68:23,25,27,31. Jan.1951. 44.8 D1426

23941 RESUGGAN, J. C. L. Assessing total detergency. *Milk Indus.* 31(5):96-98,100. Nov.1950. 44.8 M593

23942 RESUGGAN, J. C. L. Modern approaches to ice cream cleaning and sterilising. *Dairy Indus.* 15:1274-1275,1283. Dec.1950. 44.8 D1427

23943 REYES, P. Fabricación de mantequilla. *Agr. Costarricense* 8:411-413,415-419. (Cont.) Nov.1950. 8 Ag895

23944 ROADHOUSE, C. L. Protecting the healthfulness of milk. *Calif. Dairyman* 30(23):40. Dec.16,1950. 44.8 C12

23945 SCOTT, R. Destruction of starter activity by penicillin. *Dairy Indus.* 15:1260-1262. Ref. Dec.1950. 44.8 D1427

Cheese starters.

23946 SHEURING, J. J., and HENDERSON, H. B. The use of glass sanitary pipes in the modern plant. *South. Dairy Prod. J.* 49:52-53,64-65. Jan.1951. 44.8 S083

23947 TROUT, G. M., and WEINSTEIN, B. Half-and-half homogenized milk. *Mich. Agr. Expt. Sta. Q. B.* 33: 67-72. Nov.1950. 100 M585

23948 TROUT, G. M. Homogenized milk, a review and guide. *Mich. Agr. Expt. Sta. Mem. B.* 9,233 p. Ref. 1950. 100 M585

23949 TUOMAINEN, L., and HARMAA, T. Experiments with the effect of cooling on churning. (In Swedish.) *Mejeritidskrift* 12:34-37. Apr.1950. 44.8 M472

23950 WILEY, W. J., and HILLS, G. L. Review of new buttermaking methods. *Austral. Dairy Rev.* 18(12): 15-16. (To be cont.) Dec.1,1950. 44.8 Au73

#### Statistics

23951 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. A summary of the dairying industry in Australia, year ended June, 1950, vol. 13-No. 9. Canberra, 1950. 25 p. 271 Au72Su

23952 CALIFORNIA. CROP AND LIVESTOCK REPORTING SERV. California dairy industry statistics for 1949; manufactured dairy products, milk production, utilization, and prices. *Calif. Dept. Agr. Spec. P.* 238, 53 p. 1950. 2 C121S

23953 THOMANN, W. Die Käseproduktion im winter 1949/50. *Schweiz. Zentbl. f. Milchwirt.* 39:259-260. Nov.10,1950. 44.8 Sch93

Statistics.

23954 U. S. BUR. OF AGRICULTURAL ECONOMICS. Statistics relative to the receipt and disposal of milk and cream at dairy plants in New York State, 1949. Albany, 1950. 39 p. 1.941 S8St2

New York State Department of Agriculture and Markets cooperating.

#### FEED AND FORAGE CROPS

23955 AKINS, W. Aim of feed school. (Sum.) *Feedstuffs* 22(49):10. Dec.9,1950. 286.81 F322

Feed Milling Production School of Midwest Feed Manufacturers Association.

23956 BAUMANN, C. A. The stability of carotene in feeds. (Excerpts.) *Grain & Feed J. Consolidated* 105(11): 33-37. Dec.13,1950. 298.8 G762

23957 BAUMANN, C. A. Stability of vitamins in feeds. *Flour & Feed* 51(7):18. Dec.1950. 298.8 F66

23958 BERGER, W. C. The molasses situation. *Grain & Feed J. Consolidated* 105(9):25-26. Nov.8,1950. 298.8 G762

Feed.

23959 BRADSHAW, J. B. Twentieth century progress in provender milling. *Milling* 115:622-623,627. Dec.16, 1950. 298.8 M622

23960 BREW, W. B. The detection of sun-cured alfalfa in dehydrated alfalfa meal. *Assoc. Off. Agr. Chem. J.* 33:966-970. Nov.15,1950. 381 As7

23961 BROCK, F. D., and HOLLEMAN, M. P. Commercial feeding stuffs from September 1, 1949 to August 31, 1950. *Tex. Agr. Expt. Sta. B.* 725,150 p. Sept.1950. 100 T31S

Inspection and analysis of feeds in Texas.

23962 CORRIE, F. E. Feeding farm animals. 32. Still miscellaneous foods. *Fert. Feed. Stuffs & Farm Supplies J.* 36:779-781. Dec.13,1950. 57.8 F413

23963 CUNNINGHAM, L. C. Prospects for commercial feed. *N. Y. Agr. Col. Ext. Cornell Feed Serv.* 29:1-2. Nov.1950. 275.29 N48Cf

23964 CZAREV, J. Handling molasses in feed plants. (Sum.) *Feedstuffs* 22(49):67. Dec.9,1950. 286.81 F322

23965 DENMARK. STATENS REDSKABSUDVALG. Prøve med kod- og fiskekvaerne til pelsdyrfoder. [Tests with meat and fish grinder for feed for fur animals.] *Denmark-Statens Redskabsprøver Beret.* 106,28 p. 1950. 58.9 D41

23966 ELLETT, D. Here are ten proven ways for increasing feed sales volume. (Excerpts.) *Grain & Feed J. Consolidated* 105(9):19-20. Nov.8,1950. 298.8 G762

23967 ENGEL, C., and HENDRIKS, T. F. The determination of riboflavin (vitamin B<sub>2</sub>) in vitamin feed concentrates. (In Dutch.) *Chem. Weekbl.* 46:854. Nov.25, 1950. 385 C42

23968 FOWLER, R. G., JR. It's not chicken feed! it's bulk feed. *Oreg. Farmer* 73:827. Nov.16,1950. 6 Or32

Bulk handling of feed.

23969 GRANT, D. L. The feed mill of tomorrow. (Sum.) *Feedstuffs* 22(49):10,14. Dec.9,1950. 286.81 F322

23970 GRIFFIN, E. D. The feed salesman profits by feed control. *Amer. Feed & Grain Dealer* 34(11):33,44-45. Dec.1950. 298.8 C83

23971 HEIDEMAN, A. G. Molasses technique for feed mixing. *East. Feed Merchant* 2:16-17,48. Jan.1951. 389.78 Ea7

23972 HENRICHSSEN, J. Feed marketing abroad; impressions from an American journey. (In Danish.) *Andelsbladet* 51:1361-1363. Nov.16,1950. 280.28 An2

23973 KEENEY, L. G. Spontaneous ignition of hay. *Mutual Ins. B.* 37(12):5-9,17. Dec.1950. 284.68 M983

23974 LEKER, J. E. Handling, storing liquid ingredients. (Sum.) *Feedstuffs* 22(49):66-67. Dec.9,1950. 286.81 F322

Used in feed formulation.

23975 LEROY, A. M. Détermination de la valeur marchande des aliments destinés aux animaux. *Inst. Prof. de Contrôle et de Rech. Sci. des Indus. de l'Aliment. Anim. Commun.* 2:19-21. Aug.1950. 389.79 In7

Prices.

23976 MIDWEST FEED MANUFACTURERS ASSOCIATION. FEED MILLING PRODUCTION SCHOOL. Feed Production School lecture summaries. *Feedstuffs* 22(49):10,14-15,66-67,71,73,78-79. Dec.9,1950. 286.81 F322

23977 MOORE, R. D. Feed store merchandising. *West. Feed & Seed* 5(12):15,20. Dec.1950. 389.78 W52

23978 MORRISON, F. B. How to buy mixed feeds. *Farm J.* 75:32-33,108. Jan.1951. 6 F2212

23979 MURRAY, P. C. Blending and mixing methods discussed. (Sum.) *Feedstuffs* 22(49):66. Dec.9,1950. 286.81 F322



- 23980 NATIONAL HAY ASSOCIATION. 1950-51 year book and membership directory. Indianapolis, Ind., 1950. 115 p. 286 N21
- 23981 NEDELA, K. F. Dimensions, number of grinding bins. (Sum.) Feedstuffs 22(49):15,66. Dec.9,1950. 286.81 F322  
In feed mills.
- 23982 NOXON, M. M. Production of pellets, crumbles. (Sum.) Feedstuffs 22(49):67. Dec.9,1950. 286.81 F322
- 23983 POUNDSTONE, B. Serving the industry—necessity for and benefits of feed control reviewed. Feedstuffs 22(50):30,32,34,36-37. Dec.16,1950. 286.81 F322
- 23984 RITTER, E. Help the farmer look ahead. Feedstuffs 22(49):58-59. Dec.9,1950. 286.81 F322
- 23985 SMITH, E. J. Winter gamble in the West. Farmers Wk. [London] 33(22):56,59,61. Dec.1,1950. 10 F2226  
The feed situation on West Country farms, Great Britain.
- 23986 SPEERS, J. W. Feed packing machines described for millers. (Sum.) Feedstuffs 22(49):67,71. Dec.9,1950. 286.81 F322
- 23987 STALEY, T. W. A feed manufacturer's viewpoint on modern feed control. Feedstuffs 22(46):46-48. Nov.18,1950. 286.81 F322
- 23988 STEVENS, A. H. Concentrating whey for feed. Butter, Cheese & Milk Prod. J. 42:32-34,36-38. Jan. 1951. 286.85 B98Bu
- 23989 TALMEY, P. Bulk handling of finished feeds. (Sum.) Feedstuffs 22(49):66. Dec.9,1950. 286.81 F322
- 23990 DORBARSON, G. Forage provisions. (In Icelandic.) Freyr 45:277-281. Oct.1950. 11 F89
- 23991 TOLES, G. E. Buffalo's "Maritime." Amer. Miller & Processor 79:76-77. Jan.1951. 298.8 Am32  
Feed mill.
- 23992 TURK, K. L. Get the most for your feed dollar. Dairymen's League News 34(26):6-7. Dec.26, 1950. 44.8 D1432  
Feed purchasing.
- 23993 WHITE, G. H. Lespedeza spreads northward again! Crops & Soils 3(4):12-13. Jan.1951. 6 W55
- 23994 WIGHTMAN, R. Grass drying is growing up, yet plants are still suited for only the biggest farms; co-operative enterprise story. Farmer & Stock-Breeder 64:3125. Dec.5,1950. 10 F228  
Eastern Counties Co-operative Association, Kenton.
- 23995 ZAPATA AGURTO, C. A. Análisis bromatológico del Medicago sativo (alfalfa). Cong. Peruano de Quím. Actas y Trab. 1949(2):558-561. 385 C763

## FIBERS AND TEXTILES

- 23996 AALL-OTTESEN. Possibilities for utilization of rayon wool. (In Danish.) Norsk Tekstil Tid. 31:306, 308-310. Oct.1950. 304.8 N81
- 23997 ACKERMAN, F. E. Future of wool in the fibre-conscious United States. Wool 1(3):11,13. 1950/51. 45.8 W887
- 23998 AGELL Y AGELL, J. Le présent & l'avenir des textiles artificiels. (Abs.) Chim. & Indus. 64(3,spec. no.):65. Sept.1950. 383 C42
- 23999 ALEXANDER, P., CARTER, D., and EARLAND, C. The application of s-bisalkoxymethylureas (dialkyl ethers of dimethylolurea) to wool. Soc. Dyers & Colourists J. 66:579-583. Ref. Nov.1950. 306.9 Sol
- 24000 AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS. PIEDMONT SECT. A comparison of the dyeing characteristics and related properties of rain-grown and irrigated cotton. Amer. Dyestuff Rptr. 39:P901-P911. Ref. Dec.25,1950. 306.8 Am3
- 24001 ARDEN, R. The outlook for cotton. Textile Indus. 114(12):128,131. Dec.1950. 304.8 C823
- 24002 ASHTON, H. Rayon staple spinning. (Sum.) Textile Wk. 46:1442,1444,1446. Dec.1,1950. 304.8 T3127
- 24003 BARTUNEK, R. Erfahrungen mit neuen Zellstoffen in der viskose-Industrie. (Abs.) Angew. Chem. 62:486. Oct.21,1950. 384 Z33
- 24004 BECK, A. Wie erzielt man reine baumwoll-wickel? Melland Textilber. 31:735-738. Nov.1950. 304.9 T312  
English summary.
- 24005 BERNSKIOLD, A. Textile research and testing at the National Bureau of Standards, USA. (In Swedish.) Textil och Konfektion 7(10):32-33. Dec.1950. 304.8 T3192
- 24006 BERNSTEIN, H. The outlook for raw materials fibers. Bedding 59(6):62-64. Jan.1951. 309.8 B39
- 24007 BERTOLINA, G., and BROGGI, A. Sizing of rayon (viscose and acetate) and nylon with polyvinyl acetate. (In Italian.) (Abs.) Chim. & Indus. 64(3,spec. no.):107. Sept.1950. 383 C42
- 24008 BETTINI, T. M. Contributo alla conoscenza della lana angora [Contribution to the knowledge of Angora wool]. Vicenza, Tipo-Lito Arti Grafiche delle Venezie Soc. An., 1949. 48 p. 304 B464
- 24009 BHAT, G. N. Some aspects of the emulsion process of wool scouring. Indian Textile J. 61(721):34-37,43. Oct.1950. 304.8 In2
- 24010 BLUMFELDT, H. Die kunstfaserindustrie und Frankreich. Chem.-Ztg. 74:519-520. Aug.31,1950. 384 C427  
English summary.
- 24011 BÖHRINGER, H. Mechanisch-technologische prüfverfahren an der faserflocke. VII. Textil-Praxis 5:777-779. Dec.1950. 304.8 T3143
- 24012 BOYCE, E. A. W. Fiber characteristics influence spinning quality. (Abs.) Textile World 100(12):143. Dec.1950. 304.8 T315  
Cotton.
- 24013 BRABANDÈRE, E. DE. Avons-nous bien fait d'organiser un Congrès de Technique Textile? Monit. Textile 12:1543,1545. Nov.1950. 304.8 M74
- 24014 BRAVYI, Z., SMIRNOV, I., and MERKIN, I. Cleaning cotton of low grades. (In Russian.) Tekstil'. Promysh. 10(6):6-7. June 1950. 304.8 T23
- 24015 BROWN, F. E. Good wool oils must be versatile. (Abs.) Textile World 100(12):141. Dec.1950. 304.8 T315
- 24016 BUDGE, D. The engineer in relation to the wool man. Wool 1(3):47,49,62. 1950/51. 45.8 W887  
Chiefly on wool scouring.
- 24017 BURTE, H. M. The effect of dilute salt solutions on the mechanical properties of animal fibers. Textile Res. J. 20:880-881. Dec.1950. 304.8 T293
- 24018 CALLOW, H. J. Bleaching reactions with jute fibre. Nature [London] 166:1040. Dec.16,1950. 472 N21
- 24019 CANADIAN Textile Seminar discusses modern methods. Textile World 100(12):139,141,143,145,147,149. Dec.1950. 304.8 T315  
Organized by Textile Technical Federation of Canada.
- 24020 CENTOLA, G., and MOLTEDO, G. The action of chlorine on cellulose fibers. (In Italian.) (Abs.) Chim. & Indus. 64(3,spec.no.):108. Sept.1950. 383 C42
- 24021 CENTOLA, G. Considerations on "amorphous cellulose." (In Italian.) (Abs.) Chim. & Indus. 64(3,spec.no.):107-108. Sept.1950. 383 C42
- 24022 CENTOLA, G., and PRATI, G. Determination of the fraction of insoluble cellulose. (In Italian.) (Abs.) Chim. & Indus. 64(3,spec.no.):108. Sept.1950. 383 C42
- 24023 CENTOLA, G. The reacting power of cellulose. (In Italian.) (Abs.) Chim. & Indus. 64(3,spec.no.):107. Sept.1950. 383 C42
- 24024 CENTOLA, G. The solubility of cellulose. (In Italian.) (Abs.) Chim. & Indus. 64(3,spec.no.):107. Sept.1950. 383 C42
- 24025 CHATTERJEE, H. The chemistry of jute fibre in relation to its technological aspects. Indian Textile J. 61(721):38-43. Ref. Oct.1950. 304.8 In2
- 24026 CLOQUETTE, L. E. L'industrie du bas nylon en Belgique. Monit. Textile 12:1663-1664,1667,1669-1670, 1673,1675-1676. Dec.1950. 304.8 M74
- 24027 COBB, L. L. Procedimientos prácticos en la hilatura de fibras sintéticas. Textiles Panamer. 10(12):42-44,47-48. (Cont.) Dec.1950. 304.8 T3142
- 24028 CONGRES DE TECHNIQUE TEXTILE, BRUSSELS, 1950. Résumé des conférences. Monit. Textile 12:1519,1521,1523,1525,1529. Nov.1950. 304.8 M74
- 24029 COOMBER, H. E., and KIRBY, R. H. Manila hemp from Borneo. Colon. Plant & Anim. Prod. 1:62-64. Jan./Mar.1950. 472 C71
- 24030 CROFTS, W. J. Maintenance of woolen cards. 1-2. Textile Indus. 114(12):92-94,118;115:131,133,135. Dec.1950-Jan.1951. 304.8 C823
- 24031 CROSTON, C. B., and EVANS, C. D. Stabilization of zein filaments by baking. Textile Res. J. 20:857-858. Dec.1950. 304.8 T293
- 24032 CRUZ, E. E. Some aspects on the industrialization of Philippine fibers. Philippine Agr. Engin. J. 1:30-33,35. First Q.1950. 58.8 Ag88



- 24033 CUBA, P.** Lack of faith. (In Portuguese.) Soc. Rur. Brasil. Rev. 30(359):28. Oct.1950. 9.2 E733  
The Sao Paulo cotton industry.
- 24034 DALGETY AND CO.** Dalgety's annual wool review for Australia and New Zealand, 52nd, 1949/50. Sydney, 1950. 127 p. 23 Au75A
- 24035 DALL, W. B.** Techniques of cotton spinning. Indian Textile J. 61(721):23-27,32. Oct.1950. 304.8 In2
- 24036 DAS, D. B., and SPEAKMAN, J. B.** The action of chlorine dioxide on wool. (Extr.) Soc. Dyers & Colourists J. 66:583-588. Nov.1950. 306.9 So1
- 24037 DICKINS, D., and SHERRILL, S.** Study seeks to expand use of cotton in homes. Miss. Farm Res. [Miss. Sta.] 13(11):1,7-8. Nov.1950. 100 M69Mi
- 24038 DRISCH, M.** Modification de structure des fibres cellulose artificielles et amelioration des proprietes intrinseques. (Abs.) Chim. & Indus. 64(3, spec.no.):109. Sept.1950. 383 C42
- 24039 ERMAN, Ů.** On punched cylinder bars for spinning machines. (In Russian.) Tekstil'. Promysh. 10(6):46-47. June 1950. 304.8 T23
- 24040 ESPLIN, A. C.** Wool shrinkage and fiber value. Sheep & Goat Raiser 31(3):46-48. Dec.1950. 45.8 Sh3
- 24041 EWING, E. C.** Quality of fiber and mechanical production of cotton. (In Portuguese.) Fazenda 45(12):28-30,60. Dec.1950. 6 H11P
- 24042 FALCONE, M. A.** Shrinkage-control treatments help prolong the life of woollen garments. Pract. Home Econ. 29:17,48. Jan.1951. 321.8 H752
- 24043 FERRERO.** Recents developpements dans le domaine de la synthese des fibres. (Sum.) Monit. Textile 12:1519. Nov.1950. 304.8 M74
- 24044 FETROW, W. W.** Cotton and oilseed co-op services spread. News Farmer Coop. 17(10):6-7. Jan. 1951. 166.2 N47
- 24045 FINKEL'SHTEIN, I.** On tangling of cotton [fiber]. (In Russian.) Tekstil'. Promysh. 10(8):16-18. Aug.1950. 304.8 T23  
During processing.
- 24046 FINKEL'SHTEIN, T., KARGIN, V., and ROGOVIN, Z.** Effect of high temperature on change in physico-mechanical properties of cellulose fibers. (In Russian.) Tekstil'. Promysh. 10(8):9-11. Aug.1950. 304.8 T23
- 24047 FREY-WYSSLING, A.** Die elektronenmikroskopie der cellulose. (Abs.) Angew. Chem. 62:485. Oct.21,1950. 384 Z33  
Includes discussion.
- 24048 FULTON, K. J.** Early shearing—from the woolbuyers' angle. Wool 1(3):41. 1950/51. 45.8 W887  
Wool quality.
- 24049 GAINES, R. W.** Spinning dynel yarns. Fibre & Fabric 103(3366):12. Dec.2,1950. 304.8 F44
- 24050 GHOSEZ, J.** Examen de quelques proprietes physiques des fils de rayonne. Rayonne 6(11):69-80. Nov.15,1950. 304.8 R214
- 24051 GOLDBERG, A. A.** Le dinaphtylmethane-disulfonate phenyl mercurique (penotrane), nouveau produit substantif resistant au lavage et protegeant les tissus contre les moisissures. Chim. & Indus. 64(3,spec.no.): LI-LIII. Ref. Sept.1950. 383 C42
- 24052 GOODINGS, A. C.** Observations on the properties of wool with particular reference to scouring. Canad. Textile J. 68:48-52,54. Jan.5,1951. 304.8 C16
- 24053 GOOSSENS, L.** Schema rationnel de la filature de fibres ligneuses sur continus a allettes. (Sum.) Monit. Textile 12:1525. Nov.1950. 304.8 M74
- 24054 GT. BRIT. COMMONWEALTH ECONOMIC COMMITTEE. INTELLIGENCE BR.** World consumption of wool 1949. London, 1950. 167 p. 286.85 C733
- 24055 GRUGET, E. A.** El cáñamo. Bolsa de Cereales, Buenos Aires. Rev. 37(1975):2,4,6,26,28,30,32. (Cont.) Dec.7,1950. 287 B866  
The industry.  
Also in Bolsa de Com. Rosario. Rev. 38(934):3-9,11-12. (To be cont.) Dec.15,1950. 287 R71
- 24056 GUPTA, S. M.** Mesta—a jute substitute. Jute & Gunny Rev. 2:527,529-531,533. Sept.1950. 73.38 J983  
Kenaf Hibiscus.
- 24057 GUPTA, V. V., NAVKAL, H., and SEN, D. L.** Spinning tests on micro samples of cotton. Indian Cent. Cotton Com. Technol. Lab. Technol. B. Ser. B 45,8 p. Feb.1950. 72.8 In2332B
- 24058 GUTHRIE, J. D., and REEVES, W. A.** Demonstration of the presence of a galacto-araban in raw cotton fiber. Textile Res. J. 20:859-861. Dec.1950. 304.8 T293
- 24059 GUTMAN, B., and SERGEEV, V.** Combing machine for processing waste [in the wool industry]. (In Russian.) Tekstil'. Promysh. 10(6):38-40. June 1950. 304.8 T23
- 24060 HEWITT, W. L.** Man-made fibres; assessment of their merits and drawbacks. Wool Rec. & Textile World 78:1505-1506. Nov.9,1950. 45.8 W884
- 24061 HEYN, A. N. J.** A quantitative evaluation of small-angle X-ray scattering by various cellulose fibers for the determination of crystallite size with special reference to the problem of inter-particle interference. Amer. Chem. Soc. J. 72:5768-5770. Dec.1950. 381 Am33J
- 24062 HOEVE, M. VAN DER.** The use of ion exchangers in the cotton industry. (In Flemish.) (Sum.) Monit. Textile 12:1521. Nov.1950. 304.8 M74  
Text also in French.
- 24063 HOLTON, W. V.** Expansion of rayon & nylon output. Canad. Textile J. 68:31-32. Jan.5,1951. 304.8 C16
- 24064 HORRIN, S.** Textile aids for cotton. (In Swedish.) Textil och Konfektion 7(10):36-37. Dec.1950. 304.8 T3192
- 24065 HOUT, F. VAN.** Un produit a revaloriser, la laine du mouton mais il faut pouvoir l'apprécier. Cour. Hort. 12:621-622. Nov.1950. 80 C834
- 24066 HUNT, S. B.** The rayon supply-demand picture. (Excerpts.) Textile B. 76(12):44,46-47. Dec.1950. 304.8 So82
- 24067 HUNTER, W. A.** Cotton opening and cleaning. Textile Wk. 46:1512,1514,1516. (To be cont.) Dec.8, 1950. 304.8 T3127
- 24068 INDIA. MINISTRY OF AGRICULTURE. DIRECTORATE OF MARKETING AND INSPECTION.** Bulletin on the marketing of sann hemp in India. India. Agr. Mktg. Adv. Mktg. Ser. 61,80 p. Aug.7,1950. 280.39 In2
- 24069 INDIAN CENTRAL COTTON COMMITTEE.** Receipts at mills in the Indian Union of raw cotton classified by varieties, 1947-48 season. Indian Cent. Cotton Comt. Statis. L. 3,6 p. Apr.1950. 72.9 In233St
- 24070 INDIAN CENTRAL COTTON COMMITTEE.** Report on the staple length of the Indian cotton crop of 1947-48 season. Indian Cent. Cotton Comt. Statis. L. 1, 9 p. Jan.1950. 72.9 In233St
- 24071 INOUE, K.** Present and past in our cotton industry. VI. (In Japanese.) Mon. Rpt. Jap. Cotton Spinning Indus. 45:5-11. Oct.1950. 304.9 J27M
- 24072 INOUE, S.** Changing of features of the Chinese cotton industry under the Communists' regime. (In Japanese.) Mon. Rpt. Jap. Cotton Spinning Indus. 45:44-51. Oct.1950. 304.9 J27M
- 24073 INTERNATIONAL COTTON ADVISORY COMMITTEE. DELEGATION FROM PAKISTAN.** The cotton position in Pakistan, 1949-50. Karachi, 1950. 10 p. 72 In86
- 24074 INTERNATIONAL FEDERATION OF MASTER COTTON SPINNERS' AND MANUFACTURERS' ASSOCIATIONS.** International cotton statistics. Estimated world cotton spindles at 31st January 1950. Consumption of cotton for half-year ending 31st January 1950, with previous figures for comparison. Manchester, 1950. 8 p. 72.9 In82C
- 24075 IVANOW, N., and MEYBECK, J.** Nouvelle methodes pour l'examen microscopique des fibres de viscose. (Abs.) Chim. & Indus. 64(3,spec.no.):110. Sept.1950. 383 C42
- 24076 IYENGAR, R. L. N., and SEN, D. L.** Standardization of the ginning technique for small samples. Indian Cent. Cotton Com. Technol. Lab. Technol. B, Ser. B 44, 11 p. July 1950. 72.9 In2332B
- 24077 JONES, J. M.** 85 years of service—National Wool Growers Assn. works on 25 current problems of sheepmen. West. Livestock J. 29(6):104,106,109. Dec. 15,1950. 6 F2278
- 24078 KARPOV, L.** Utilization of [cotton] carding machines. (In Russian.) Tekstil'. Promysh. 10(8):38-39. Aug.1950. 304.8 T23
- 24079 KASHINTSEV, N., MOL'KOV, V., and LAPSHINA, A.** Experiment in utilizing low grade cotton. (In Russian.) Tekstil'. Promysh. 10(6):35-36. June 1950. 304.8 T23  
U.S.S.R.



- 24080 KINDSTRAND, A. Effect of moisture on shrinkage of wool textiles. II. (In Swedish.) *Textil och Konfektion* 7(10):14-18. Dec.1950. 304.8 T3192
- 24081 KROESE, W. I. The Japanese cotton industry. (In Dutch.) *Economist* [Haarlem] 98:728-771. (Concl.) Nov.1950. 280.8 Ec792
- 24082 KROESE, W. T. International competition and technical progress. (In Flemish.) *Monit. Textile* 12:1707,1709,1711,1713-1714,1717,1719,1721,1723-1724,1727,1729. Dec.1950. 304.8 M74  
French summary.  
Cotton and textile industry.
- 24083 LABRIGEO, J. Las fibras duras en Latinoamérica. *Chacra* 21(241):68-69. Dec.1950. 9 C34
- 24084 LA PIANA, F. G. Size-solution viscosity should vary with the fiber. (Abs.) *Textile World* 100(12):143. Dec.1950. 304.8 T315  
Nylon and rayon.
- 24085 LIKAL'TER, A., and GRACHEV, E. Result of processing low grades of cotton. (In Russian.) *Tekstil'. Promysh.* 10(8):8-8. Aug.1950. 304.8 T23
- 24086 LIPSON, M., and HOPE, R. J. The synthesis of polymers in reduced wool. *Austral. J. Sci. Res. Ser. A: Phys. Sci.* 3:324-329. June 1950. 475 Au73
- 24087 LUNA ERCILLA, C. A. La extracción de fibras vegetales. *Bolsa de Com., Rosario. Rev.* 38(931):3-4. Oct.31,1950. 287 R71
- 24088 MARSDEN, I. Modern developments in woolen carding and spinning. *Fibre & Fabric* 103(3367):6-11,14. Dec.16,1950. 304.8 F44
- 24089 MEULEMEESTER, DE, and others. Examen comparatif des méthodes d'appréciation de la maturité du coton. (Sum.) *Monit. Textile* 12:1529. Nov.1950. 304.8 M74  
Raes, G. J. Schuringa, A. D. J. Meeuse, and vanden Abeele, joint authors.
- 24090 MITCHELL, J. A. B. Modern developments in wool yarn processing machinery. *Textile Mfr.* 76:595-597. Dec.1950. 304.8 T3126
- 24091 MONCRIEFF, R. W. Damage caused by non-shrink treatment of wool. *Textile Mfr.* 76:608-611. (Concl.) Dec.1950. 304.8 T3126
- 24092 MONCRIEFF, R. W. Food or fabric? *Textile Mercury & Argus* 123:806,809. Nov.17,1950. 304.8 T318  
Protein fibers.
- 24093 MORAHAN, J. M. The outlook for synthetics in the year ahead. *Rayon & Synthetic Textiles* 32:52-53, 60-62,64-65,69-70. Jan.1951. 304.8 R21
- 24094 MÜLLER, J. Über die Ursachen, Entstehung und Vermeidung von Spinnfehlern in der viskose-zellwolle-fabrikation. *Kunstseide u. Zellwolle* 28:385-393. Oct. 1950. 304.8 J45
- 24095 MURCHISON, C. T. Cotton supply "perilously short." *Canad. Textile J.* 67(26):70-71. Dec.22,1950. 304.8 C16
- 24096 MURCHISON, C. T. The cotton textile industry in world crisis. (Abs.) *Textile B.* 76(12):41-42,44. Dec.1950. 304.8 So82
- 24097 NATIONAL BOARD OF FIRE UNDERWRITERS. Survey on causes and prevention of cotton fires. *Natl. Bd. Fire Underwriters. NBFU Res. Rpt.* 8,34 p. 1950. 296.69 N212R
- 24098 NEMCHENKO, É. Determining the strength of viscose cord. (In Russian.) *Tekstil'. Promysh.* 10(6):16. June 1950. 304.8 T23
- 24099 NEW YORK COTTON EXCHANGE. Costs of delivering and receiving cotton on New York Cotton Exchange contract at designated delivery points, general information, season 1950-51. New York, 1950. 14 p. 287 N488Cog
- 24100 NOBLE, E. I. Rapid methods of scouring, milling and dyeing wool. *Textile J. Austral.* 25:806-808, 810-811,852. Ref. Oct.20,1950. 304.8 T3134
- 24101 NORRIS, C. A. Recent developments in the technique of wool scouring and oiling. *Textile Rec.* 68(813):85-87. Dec.1950. 304.8 T311
- 24102 ORR, C. W. The will to win. *Amer. Angora Mag.* 4(15/16):1-2. Dec.1950/Jan.1951. 40.28 Am32  
Angora wool.
- 24103 PATRIKEEV, T. Spinning of long rayon staple. (In Russian.) *Tekstil'. Promysh.* 10(8):18. Aug.1950. 304.8 T23
- 24104 PERVOV, A. Processing of waste in cotton spinning. (In Russian.) *Tekstil'. Promysh.* 10(8):18-20. Aug.1950. 304.8 T23
- 24105 PFAU, J. H., and HAY, W. D. Texturalizing process imparts permanent crimp to fibers. *Textile World* 100(12):106-107,155. Dec.1950. 304.8 T315
- 24106 PRENTICE, W. E. Wool-processing variables can be controlled. (Abs.) *Textile World* 100(12):139,141. Dec.1950. 304.8 T315
- 24107 PUPKE, H. Zur definition und dimension der faserstoffeinheit. *Melland Textilber.* 31:733-734. Nov. 1950. 304.8 T312  
English summary.
- 24108 RAMSAY, H. D. Some important changes to the New Zealand wool clip. *Wool* 1(3):53-54. 1950/51. 45.8 W887
- 24109 RANDOLPH, W. L. The critical cotton situation. *Carolina Co-op.* 28(12):11,20,28. Dec.1950. 72.8 N81
- 24110 REICHE, P. A. Kenaf, ein zukünftiger konkurrenz von jute? *Melland Textilber.* 31:806-807. Dec. 1950. 304.8 T312  
English summary.
- 24111 REIN, H. Die Entwicklung und Bedeutung der synthetischen Fasern. (Abs.) *Kunststoffe* 40:331. Oct. 1950. 309.8 K96
- 24112 RICHARDS, R. L. Du Pont looks back at 1950; development of new fibers assures more yarn for varied uses in textiles. *Rayon & Synthetic Textiles* 32:71-72. Jan.1951. 304.8 R21
- 24113 ROBINET, M. Le lavage contrôlé de la laine. (Sum.) *Monit. Textile* 12:1525,1529. Nov.1950. 304.8 M74
- 24114 RODMAN, C. A., and PANSEY, A. W. Use of a microscopic technique in studying the filtration characteristics of wool and cotton fibers. *Textile Res. J.* 20:873-879. Dec.1950. 304.8 T293
- 24115 ROOY, A. J. VAN. The high wool prices. (In Africans.) *Landman* [Weekly] 34(11):9. Nov.1950. 24 L234
- 24116 ROY, A. S. The tensile strength of a cordage. *Indian Textile J.* 61(721):33,43. Oct.1950. 304.8 In2
- 24117 SABURI, T. Recent aspects of the American cotton textile industry. (In Japanese.) *Mon. Rpt. Jap. Cotton Spinning Indus.* 45:12-19. Oct.1950. 304.9 J27M
- 24118 SCHIEFER. Textile research and testing at the National Bureau of Standards, Washington. (In French and Flemish.) (Sum.) *Monit. Textile* 12:1529. Nov.1950. 304.8 M74
- 24119 SHARP, A. New Zealand wools—their uses and limitations. *Wool* 1(3):7,9,17. 1950/51. 45.8 W887
- 24120 SHEPHERD, G. P. The preparation of a small clip. *So. Austral. Dept. Agr. J.* 54:148-149. Oct.1950. 23 So84  
Care of wool.
- 24121 SHIOSAKI, M. Over-all private cotton trade. *Mon. Rpt. Jap. Cotton Spinning Indus.* 44:10-20. Sept. 1950. 304.9 J27M
- 24122 SHUSHKIN, A. Selected varieties of flax. (In Russian.) *Tekstil'. Promysh.* 10(8):12-14. Aug.1950. 304.8 T23  
Grading and standardization.
- 24123 SLATER, W. H. Technological trends in textiles. *Textile Wk.* 46:1310,1312,1314. (To be cont.) Nov.17,1950. 304.8 T3127  
Includes artificial fibers.
- 24124 SPORYSHEV, A., and BELITSN, N. On decreasing breakage. (In Russian.) *Tekstil'. Promysh.* 10(6):9-11. June 1950. 304.8 T23  
In spinning.
- 24125 STORY, L. F. Wool manufacturing research in N. Z. *Wool* 1(3):23,25,27. 1950/51. 45.8 W887
- 24126 SVENSKA TEXTILFORSKNINGSINSTITUTET. Publikationer, 1945-49 [Publications by the Swedish Textile Research Institute, 1945-49]. Göteborg, 1950. 18 p. 304 Sv2  
Includes fiber research.
- 24127 SVIRIDENKO, S. For the development of a stable raw material base for the flax and hemp industry. (In Russian.) *Tekstil'. Promysh.* 10(6):8-9. June 1950. 304.8 T23
- 24128 SWAIN, P. J. Shearing and wool classing. *Transkelan Ter. Agr. Dept. Umcebisi Wolimili Nomfuyi* 27(4):20-21. Nov.1950. 24 T684
- 24129 TABASSO, E. Uniformity is needed in the system and conditions of marketing in the United States. (In Italian.) *Laniera* 64:651,653,655,657,659,661,663,665. Sept.1950. 45.8 B63  
Wool and textiles.



24130 TATU, H. Recherches récentes sur l'encollage à l'huile de lin des rayons pour crêpe. (Abs.) Chim. & Indus. 64(3,spec.no.):110. Sept.1950. 383 C42

24131 THIEME, G. Probleme an der streichgarn-spinnkrempe. Melland Textilber. 31:739-740. Nov. 1950. 304.8 T312  
English summary.  
Wool.

24132 THOUROUT, M. C. VAN. La fibrane et ses mélanges avec le coton et la laine. Rayonne 6(11):51,53, 55-59,61-62. Nov.15,1950. 304.8 R214  
Also in Textielwezen 6(12):17-26. Dec.1950.  
304.8 T3147

24133 TIQUET, F. Les apports techniques modernes à l'achevement des tissus de laine. (Sum.) Monit. Textile 12:1521. Nov.1950. 304.8 M74

24134 TOWNEND, P. P. The mixing of coloured fibres in continental drawing. Textile Rec. 68(813):81-82. Dec.1950. 304.8 T311  
Wool.

24135 TOWNEND, P. P. The use of false twister tubes in worsted spinning. Wool Rev. 23(355):21. Nov. 1950. 45.8 W886

24136 ULLMANN, G. Vertical organisation and the future of man-made fibres. Textile Mfr. 76:586-587,591. Dec.1950. 304.8 T3126

24137 U. S. PRODUCTION AND MARKETING ADMIN. Charges for ginning cotton and related data, season 1949-50. Washington,1950. 2 p. 1.956 C82C372

24138 U. S. PRODUCTION AND MARKETING ADMIN. Domestic mohair: monthly average prices on the open market at Boston, 1943-45. Washington,1950. 2 p. 1.956 L75D715

24139 U. S. PRODUCTION AND MARKETING ADMIN. Domestic wool: monthly average of Commodity Credit Corporation purchasing prices at Boston, 1946-49, clean basis. Washington,1950. 2 p. 1.956 L75D714

24140 U. S. PRODUCTION AND MARKETING ADMIN. Domestic wool: monthly average of Commodity Credit Corporation purchasing prices at Boston, 1946-49, grease and scoured basis. Washington,1950. 1 p. 1.956 L75D712

24141 U. S. PRODUCTION AND MARKETING ADMIN. Domestic wool: monthly average prices on the open market at Boston, 1948-49. Washington,1950. 2 p. 1.956 L75D713

24142 U. S. PRODUCTION AND MARKETING ADMIN. Facts about the present cotton situation and the need for increased production in 1951. U. S. D. A. PA-148,12 p. Dec.1950. 1 Ag84Pro

24143 VALLEE, J. Les phénomènes physico-chimiques mis en œuvres dans le lavage et le lissage de la laine. (Sum.) Monit. Textile 12:1529. Nov.1950. 304.8 M74

24144 VARGA, A. Principles of woollen carding. 1-2.4. Textile Mercury & Argus 123:879,881-883,928,931-932,1001,1003-1006. (To be cont.) Dec.1-8,22,1950. 304.8 T318

24145 VARGA, A. A Varga breast can improve your carding. (Abs.) Textile World 100(12):141. Dec.1950. 304.8 T315

24146 VENEMA, C. J. A. Olievlasstro een grondstof voor linnen? [Is oil-flax straw a material for linen?] Nederlands Vlasinst. Ber. 1,7 p. 1950. 73.19 W12B

24147 VIVES, M. Algo sobre el cultivo del algodón en España; las industrias textiles y la producción de algodón nacional. Siembra [Madrid] 6(10):13-15. Oct. 1950. 15 S11

24148 VOGEL, F. Verwertung des als nebenprodukt anfallenden glauersalzes bei der herstellung von zellwolle nach dem viskoseverfahren. Chem. Tech. 2:334-336. Oct.1950. 384 C4283

24149 WAHBA, M. Moisture relationships of cellulose. II. The heats of wetting of partially saturated viscose rayon and standard cellulose in water. J. Phys. & Colloid Chem. 54:1148-1160. Ref. Nov.1950. 381 J822

24150 WALLY-VAN VREESWIJK, A. C. Cultivation and spinning of ramie. Organ. Sci. Res. Indonesia. O. S. R. News 2:96-98. Aug.1950. 330.9 Or3Ae

24151 WARD, J. M., JONES, D. L., and PAULSON, W. E. Some effects of mechanical harvesting of cotton on the ginning business. Tex. Agr. Expt. Sta. Prog. Rpt. 1300,4 p. Dec.8,1950. 100 T31P

24152 WATT, K. D. Value of basic training in wool. (Excerpts.) Wool 1(3):5. 1950/51. 45.8 W887  
In New Zealand.

24153 WEGENER, W., and LUYKEN, E. Belastbarkeit von kunstseiden in abhängigkeit von der witterung. Melland Textilber. 31:822-825. Dec.1950. 304.8 T312  
English summary.  
Rayon.

24154 WESSELS, A. J. J. Increase in wool and clothing prices. (In Afrikaans.) Volkshandel 11(8):59,61. Oct.1950. 286.8 V88  
Union of South Africa.

24155 WEST, G. F. New strength for an old King. Res. & Farming [N. C. Sta.] 9(2):15,14. Autumn 1950. 100 N81R

Fiber strength of hybrid cotton.

24156 WEST BENGAL. HOME (PUBLICITY) DEPT. Report on the experimental sample survey of autumn crops, 1949 ... Jute and paddy in the districts of Burdwan and Hooghly. Alipore, Govt. Press, 1950. 18 p. 269.52 W 269.52 W522

24157 WIDMER, R. Western wools for warmth, long wear and beauty. West. Farm Life 53(Annu. Livestock Rev. 1951):20,174-175. Jan.1,1951. 6 R153

24158 WILDHABER, H. Spinnregler, fadenbrüche und fadenzüge. Textil-Rundschau 5:464-466. Nov.1950. 304.8 T3139

Equipment.

24159 WOOD, W. J. Neps in wool tops not hard to figure. (Abs.) Textile World 100(12):141. Dec.1950. 304.8 T315

24160 WOOL year book 1950. Manchester,1950. 635 p. 45.8 W883

24161 ZIENKIEWICZ, H. Russian regulations in regard to quality of hemp straw and hemp fiber. (In Swedish.) Lin 4:60-62. Aug./Sept.1950. 73.18 L63

#### FRUITS, VEGETABLES, AND NUTS

24162 ANGELL, G. N. What lies in the future for Oregon prune growers? Oreg. Farmer 73:896. Dec.21, 1950. 6 Or32

24163 ANSON, A. E. Conditions in Texas. (Sum.) West. Grower & Shipper 22:12. Dec.1950. 280.38 W52  
Fruit and vegetables.

24164 BARROS, H. DE, and RODRIGUES, R. V. Economic aspects of potato culture in the producing regions of the south bank of the Tagus river and Povoa do Varzim. (In Portuguese.) Portugal. Junta Nac. das Frutas. B. 10:16-32. First Q.1950. 286.3939 P83  
English summary.  
Includes costs of production.

24165 BAUMANN, J. Der obstbau und das süßmost gewerbe. Obstbau 69:134. (To be cont.) Sept.1,1950. 80 Ob73  
Germany.

24166 CANADA. DEPT. OF AGRICULTURE. FRUIT AND VEGETABLE PRODUCTS RESEARCH COMMITTEE Annual report 1949. Ottawa,1950. various paging. 389.9 C169

24167 CANARY Island tomatoes. Banco de Bilbao. B. Inform. 12:1-6. Sept.1950. 286.9 B222

24168 CARDONNE, P. Raisins de cuve et raisins de table. Tribune Agr. (n.s.)43(793):1. Nov.15,1950. 24 T732

The industry in Algeria.

24169 CUYA, M. R. Conveniencia nacional de intensificar la industria del almidón de yuca. Cong. Peruano de Quim. Actas y Trab. 1949(1):252-254. 385 C763

24170 DESIRE, H. Le gouvernement devant la crise viticole. Bouches du Rhône Agr. 23(1041):1-2. Dec.15, 1950. 14 B662

24171 DORSEY, R. N. Observation on European fruit industry. Appleland News 14(10):29-31. Oct.1950. 80 Ap53

24172 FIDLER, J. C. Bananas. Fruit, Flower & Veg. Trades' J. 98(20):31,33. Nov.11,1950. 80 F946  
The industry.

24173 FLEWELLING, B. Canadian business. (Sum.) West. Grower & Shipper 22:14-15. Dec.1950. 280.38 W52  
Fruit industry.

24174 FRASER, S. Outlook for the apple industry. Fruit & Veg. Rev. 12(9):15. Dec.1950. 80 C1224

24175 FRUIT annual 1950/51; year-book and directory of the world's fruit trade. London,1950. 416 p. 225 F943

24176 GERSHILL, B. The South African pineapple industry, an analysis of problems and prospects. Food Indus. So. Africa 3(6):25-28. Oct.1950. 389.8 F7372



- 24177 HALLAURE, J. The apple. *Culinary Rev.* 19 (2):5. Nov.1950. 389.8 C89
- 24178 HALLAURE, J. Sauerkraut. *Culinary Rev.* 19(3):5,7. Dec.1950. 389.8 C89  
History.
- 24179 HAYDEN, C. A. \$250,000,000 industry from mishap to slice of potato. *Country Life* [Vernon] 34(11): 3. Nov.1950. 7 C832  
Potato chip industry.
- 24180 JENSEN, P. E. How is the fruit industry? (In Danish.) *Gart.-Tid.* 66:487-488. Nov.1,1950. 80 G192
- 24181 LARUE, P. Sur la provision de raisins de table. *Prog. Agr. et Vitic.* 1950:390. Dec.17/24,1950. 14 P94
- 24182 LEFORT, M. Le marché du copra en Indonésie; culture, production et exportation. *Rev. Internatl. des Prod. Colon.* 25:195,197-199. Nov.1950. 286.8 R326
- 24183 LOWRY, D. B. Pears to please your palate. *Oreg. Dept. Agr. Agr. B.* 168:7-9. Dec.1950. 2 Or3  
The industry in Oregon.
- 24184 LUQUE, J. A. Antecedentes para la consolidación de la industria frutícola. *Charla Rur.* 144:24-25,56. Oct.1950. 9 C37  
Argentina.
- 24185 MCFARLANE, G. C. The potato supply position [Australia]. *Agr. Gaz. N. S. Wales* 61:513-516. Oct. 2,1950. 23 N472
- 24186 MARSAIS, P. Les commandements de la viticulture doivent être appliqués rapidement en Europe. *J. de la France Agr.* 6:1205,1210-1211. Nov.10/16,1950. 14 J829
- 24187 NATIONAL FEDERATION OF FRUIT AND POTATO TRADES. Handbook 1950; including list of members, officers and committees, annual report and accounts. London,1950. 409 p. 286.83 N213
- 24188 NATIONAL fruit and vegetable directory 1950-51. Chicago,1950. 208 p. 225 N2172
- 24189 NEW JERSEY STATE POTATO ASSOCIATION. INDUSTRY COMMITTEE. New Jersey Potato Industry Committee,1949. Trenton,1950. 16 p. 75.9 N46
- 24190 PERINI, D. Viticulture and demogogy in the Trento Adige Valley. (In Italian.) *Lab. di Polit. Econ. di Ca' Foscari. Serv. di Studi Econ. B.* 4(7/9):8-10. Sept.30,1950. 280.9 V553
- 24191 REGO, Z. P. C. The Alenquer cherry producing region. (In Portuguese.) *Portugal. Junta Nac. das Frutas. B.* 10:33-118. First Q.1950. 286.3939 P83  
English summary.
- 24192 REINHOLD, J. Die ernährungswirtschaftliche leistung des freilandgemüsebaues. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:22-23. Sept.1950. 18 D4822  
Yields and composition.
- 24193 ROTH, H. Was ist mit der kartoffel los? *Kartoffelwirtschaft* 3:427-428. Oct.27,1950. 286.83 K14  
Germany.
- 24194 SADOVSKIĬ, V. I. Orchard Week. (In Russian.) *Sad i Ogorod* 1950(9):6-8. Sept.1950. 80 Sa13  
Fruit production policy.
- 24195 SAMARAKIS, B. A. Situación de la viticultura en el mundo. *Semana Vitivinif.* 5(219):8-11;(220):8-12. Sept.9-16,1950. 95.8 Se5
- 24196 SANDFORD, B. Oranges in Spain. *Fruit, Flower & Veg. Trades' J.* 98(20):16-17. Nov.11,1950. 80 F946
- 24197 SARDONE, L. T. Have a banana! *Westrallan Farmers Co-op Gaz.* 19:249,251. Oct.1950. 280.28 W522
- 24198 SAVAGE, Z. U. S. produces large share of world citrus. *Citrus Mag.* 13(5):28-29. Jan.1951. 80 C498
- 24199 SCHALK, A. The future of our fruit industry. (In Dutch.) *Betuws Tuinbouwbl.* 8(19):6-7. Dec.2,1950. 80 B464  
Netherlands.
- 24200 SCHREIBER, W. R. World dried fig production. *Calif. Fruit News* 122(3259):9-10;(3260):8-9. Dec.23-30,1950. 80 C12
- 24201 SIMON, G. L'avenir de la culture fruitière dans la Province de Liège. *Inst. Prov. de Coop. Agr. B.* 2:6-11. Sept.1950. 280.29 L62
- 24202 WALKER, F. W. Some aspects of the Tasmanian apple industry. (Digest.) *Austral. Inst. Agr. Sci. J.* 16:121. Sept.1950. 23 Au74
- Analysis and Composition
- 24203 CARPIO CHIRI, P. Análisis de la caigua. *Cong. Peruano de Quim. Actas y Trab.* 1949(2):473-474. 385 C763  
Prickle cyclanthera.
- 24204 CASSIN, J. Remarques sur les résultats d'analyses effectuées sur les agrumes au cours de la campagne 1949-50. *Fruits et Primeurs de l'Afrique du Nord. Éd. Marocaine* 20:343-347. Nov.1950. 80 F9482
- 24205 DICKINSON, D., and HARRIS, F. J. T. Paper test for citrus juices. *Analyst* 75:687-688. Dec.1950. 382 An1  
Use of filter paper.
- 24206 DUPAIGNE, P., and BOGDANSKI, K. Etude préliminaire sur le brunissement des produits de fruits; mesure pratique de l'activité des polyphénoloxydases. *Indus. Agr. et Aliment.* 67:387-392. Ref. Aug./Oct.1950. 383 As7  
English summary.
- 24207 GRAFF, Y. Sur l'appréciation de la richesse en sucres des cidres d'après leur densité. (Abs.) *Chim. & Indus.* 64(3,spec.no.):106. Sept.1950. 383 C42
- 24208 HEIMERDINGER, W., and SENGBUSCH, R. VON. Stärkebestimmung in kartoffeln. *Z. f. Pflanzenzücht.* 29:241-243. Sept.1950. 450 Z36
- 24209 KOTIDI, E. P. Chemical nature of substances which cause a bitter taste in mandarin orange processed products. (In Russian.) *Akad. Nauk SSSR. Dok.* 73:763-765. Aug.1,1950. 511 P444A
- 24210 PEDERSON, C. S. The microbiology of tomato products. (Abs.) *Canning Trade* 73(26):15. Jan.15,1951. 286.83 T67
- 24211 PROKOSHEV, S. M., PETROCHENKO, E. I., and BARANOVA, V. Z. Comparative investigation of solanine, demissin and tomatin. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:339-342. Sept.11,1950. 511 P444A  
In Solanaceae.
- 24212 RICE, R. G., KELLER, G. J., and KIRCHNER, J. G. Separation and identification of 2,4-dinitrophenylhydrazones of aldehydes and ketones, and 3,5-dinitrobenzoates of alcohols by filter-paper chromatography. *Analyt. Chem.* 23:194-195. Jan.1951. 381 J825A  
Method evolved in studying chemistry of volatile constituents of orange juice.
- 24213 TISCHER, R. G. Estimation of insect fragment contamination in canned sweet corn. *Assoc. Off. Agr. Chem. J.* 33:955-966. Ref. Nov.15,1950. 381 As7
- 24214 VINAS T., E. Composición química de algunas leguminosas, mafes y verduras que se consumen en el país. *Cong. Peruano de Quim. Actas y Trab.* 1949(2):489-492. 385 C763
- 24215 WILLIAMS, K. T., BEVENUE, A., and WASHAUER, B. A study of the use of ion-exchange resins for the removal of non-sugar reducing substances in the analysis of fresh and dehydrated vegetables for reducing sugars. *Assoc. Off. Agr. Chem. J.* 33:986-994. Ref. Nov.15,1950. 381 As7
- 24216 WILSON, J. B. The use of ion-exchange resins in the determination of fruit acids. *Assoc. Off. Agr. Chem. J.* 33:995-1002. Nov.15,1950. 381 As7
- Consumption and Utilization
- 24217 HEINZE, P. H. Determining specific uses for different types and varieties of potatoes. *Ohio Veg. & Potato Growers Assoc. Annu. Proc.* 35:135-139. 1950. 75.9 Oh3
- 24218 SMITH, M. B. What the housewife wants is fresh vegetables. *Conn. Veg. Growers' Assoc. Proc.* 37: 53-56. 1949. 75.9 C76
- Distribution, Marketing, and Transportation
- 24219 ALMEIDA, O. DE. Flagrant cooperatives in Rio citriculture. (In Portuguese.) *Cooperativismo* [Rio de Janeiro] 5(53):3-5. Nov.1950. 280.28 C7856
- 24220 BENITT, L. J. A survey of apples in stores. *Wis. Hort.* 41:82-84. Jan.1951. 80 W752
- 24221 BENNETT, J. F. Operations of marketing orders with particular reference to the marketing order for dates. *Date Growers' Inst. Rpt.* 27:31-32. 1950. 81 D26
- 24222 BOND, M. C., and COSTELLO, B. Receipts of fruits and vegetables at New York City 1949. *N. Y. Agr. Col. A. E.* 753,36 p. Sept.1950. 281.9 C81



- 24223 BOWRING, J. R. Marketing New Hampshire potatoes. N. H. Agr. Expt. Sta. B. 386, 25 p. Sept. 1950. 100 N45
- 24224 BREAKIRON, P. L. Reducing cantaloup shipping losses. Mktg. Activ. 13(11):17-20. Nov. 1950. 1.942 A8M34  
Crate-on-end loading method.
- 24225 BROERSE, J. My experiences in Surinam. (In Dutch.) Vakbl. v. de Groothandel in Aardappelen, Groenten en Fruit 4(49):8-9. Dec. 15, 1950. 286.28 V22  
Fruit and vegetable marketing.
- 24226 BURKE, J. H. Observations on the United Kingdom citrus market in 1950. U. S. Off. Foreign Agr. Relat. FCF-9-50, 20 p. Dec. 15, 1950. 1.943 F7637
- 24227 CALAVO GROWERS OF CALIFORNIA. 27th annual report, September 30, 1950. Los Angeles, 1950. 16 p. 81 C1282  
Avocados.
- 24228 CRUESS, W. V. Large markets seen for new fruit products. West. Fruit Grower 4(11):14-15. Nov. 1950. 95.8 G762A
- 24229 DRUCE, P. C. Market prospects for fruit and wine [Australia]. Agr. Gaz. N. S. Wales 61:569-573. Nov. 1, 1950. 23 N472
- 24230 GROWERS ADMINISTRATIVE COMMITTEE. Marketing policies—Florida citrus 1950-51 season. Winter Haven, 1950. various paging. 280.3939 Sh6F  
Shippers Advisory Committee, cooperating author. Marketing statistics.
- 24231 HARVEY, E. M., ATROPS, E. P., and RAD-SPINNER, W. A. Transportation test with lemons and oranges from southern California to New York, September 1950. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 233, 34 p. Nov. 10, 1950. 1.9 P772Ht
- 24232 HOOBLER, S. Q. Some aspects of the competitive position of the Washington potato industry. Wash. Agr. Expt. Sta. C. 118, 33 p. Oct. 1950. 100 W275
- 24233 INDIA. DIRECTORATE OF MARKETING AND INSPECTION. Bulletin on the marketing of some important stone, pome and small fruits and pine-apples in India. India. Agr. Mktg. Adv. Mktg. Ser. 62, 87 p. 1950. 280.39 In2
- 24234 KEATON, C. R. Can you interpret reports for profitable produce sales? N. Mex. Agr. Col. Ext. News 30(12):5. Dec. 1950. 275.29 N463Ex  
Various terms used by the market reporter.
- 24235 LASBURY, R. C., JR. The present status of the Hartford Regional Market. Conn. Veg. Growers' Assoc. Proc. 37:44-47. 1949. 75.9 C76
- 24236 LOCKABEY, V. A. M.O.D. [Mutual Orange Distributors] enjoys expansion. Fruit & Veg. Rev. 12(9):13, 23. Dec. 1950. 80 C1224
- 24237 MAYNARD, H. H. What can vegetable and potato growers learn from methods used in marketing manufactured goods? Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:10-14. 1950. 75.9 Oh3
- 24238 PALANTI, G. B. Food policy; increase consumption of fruit and vegetables. (In Italian.) Agenzia Romana Note e Inform. Agr. 88:5. Dec. 23, 1950. 281.8 Ag3
- 24239 PARMENTIER, P. La réglementation du marché de la pomme de terre: consommation—production. Rev. de Lég. Agr. 3:188-193. Oct. 1950. 281.8 R325  
France.
- 24240 PEKER, K. Les noixettes en Turquie (prix et marché). (In Turkish.) Turkey. Econ. ve Ticaret Bakanligi. Ser. A, Konjonktür 10(7/9):15-16. July/Sept. 1950. 280.9 T843
- 24241 PERRY, A. L., and MERCHANT, C. H. Development of defects in potatoes between shipping points in Aroostook County, Maine and wholesale and retail markets in Boston, Massachusetts. Maine. Agr. Expt. Sta. B. 484, 35 p. Sept. 1950. 100 M28S
- 24242 PHILLIPS, F. H. What every grower should know about the cranberry market. Cranberry World 4(12):7-8, 13. Dec. 1950. 280.28 C85
- 24243 ROCK, R. C. Marketing fruits under agreements & orders. Date Growers' Inst. Rpt. 27:30-31. 1950. 81 D26
- 24244 SAMUELS, J. K. Co-ops make mark on fruits and vegetables. News Farmer Coop. 17(10):12, 17. Jan. 1951. 166.2 N47
- 24245 SAN DIMAS LEMON ASSOCIATION. 49th annual report, season 1948-49. San Dimas, Calif., 1950. 8 p. 93.335 Sa52
- 24246 SAUNDERS, E. G. Apple promotion. Va. Fruit 38(11):14-15. Nov. 1950. 81 V81B
- 24247 SCOTT, R. C. Increasing the demand for Ohio vegetables. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:15-25. 1950. 75.9 Oh3
- 24248 SCOTT, R. C., and HIGGINS, R. A. Marketing peaches, Canton-Youngstown area. Ohio. Agr. Expt. Sta. Res. C. 7, 26 p. Oct. 1950. 100 Oh3R
- 24249 STEDMAN, G. Florida transportation problems. (Sum.) West. Grower & Shipper 22:12. Dec. 1950. 280.38 W52  
Fruit.
- 24250 U. S. PRODUCTION AND MARKETING ADMIN. The wholesale market for fruits, vegetables, poultry, and eggs in New Haven, Conn. Supplement, by C. J. Otten and A. B. Lowstuter. Washington, 1950. 11 p. 1.956 M343W625
- 24251 VAN CLUTE, J. Market comes to farmer; Seattle consumers order Walter VanderBeek's organically grown produce in advance. Org. Farmer 2(5):48-50. Dec. 1950. 57.8 Or3
- 24252 VANDERWAEREN, R. Do you know the fruit auctions of St. Truiden and surroundings? (In Flemish.) Tuinbouwberichten 14:155-156. Oct. 15, 1950. 80 T817
- 24253 WALLER, J. F. Roadside market for Virginia grown fruits. Va. Fruit 38(11):6-7. Nov. 1950. 81 V81B
- 24254 WELCH, J. H. Up and up in Texas citrus marketing. Tex. Farming & Citric. 27(5):5. Nov. 1950. 80 T31
- 24255 WINDISCH, W. Fruits and vegetables under the new marketing law. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:30-34. 1950. 75.9 Oh3

#### Grading, Inspection, Standardization, and Quality

- 24256 COURSHÉE, R. J. Fruit sizing and grading machinery. Silsoe, Bedfordshire, Eng., Natl. Inst. Agr. Engin., 1950. 41 p. 58 C832
- 24257 DOMINICK, B. A., JR. Injury to McIntosh apples by mechanical sizers. N. Y. Agr. Col. Farm Econ. 177:4593. Nov. 1950. 280.8 C812
- 24258 FORD, O. W., and BURKHOLDER, C. L. Purdue studies residues on apples following the use of mercury fungicides. Hoosier Hort. 32:115-116. Sept. 1950. 81 In2H
- 24259 GEMEREN, P. VAN. Scales and weighbridge. (In Dutch.) Fruitteelt 40:954-955. Dec. 14, 1950. 86 N28  
For fruit.
- 24260 HENLEY, J. H. Apple and Peach Inspection Service. Va. Fruit 38(11):3-4. Nov. 1950. 81 V81B
- 24261 HERNÁNDEZ-GUTIÉRREZ, F. Contribución al estudio de la etiología de la intoxicación latírica. An. de Bromatología 2:261-269. Ref. 1950. 389.8 An1  
English summary.  
Lathyrus sativus.
- 24262 HUCKER, G. J. Relation of quality of frozen vegetables to number of bacteria present. (Abs.) Canning Trade 73(26):16. Jan. 15, 1951. 286.83 T67
- 24263 LONGREE, K., and FENTON, F. Objective and subjective studies on factors affecting toughness and stringiness of kale (Brassica oleracea Acephala). Food Res. 15:471-489. Nov./Dec. 1950. 389.8 F7322
- 24264 MARTIN, G. M. Pea quality grading ups fancy percentage. West. Canner & Packer 41(13):37. Dec. 1950. 286.83 W522
- 24265 SIEGEL, M. The canned corn standard. Canner 111(24):15-16. Dec. 16, 1950. 286.83 C16
- 24266 TERMAN, G. L., GOVEN, M., and CUNNINGHAM, C. E. Effect of storage temperature and size on French fry quality, shrinkage and specific gravity of Maine potatoes. Amer. Potato J. 27:417-424. Dec. 1950. 75.8 P842
- 24267 U. S. PRODUCTION AND MARKETING ADMIN. U. S. consumer standards for Italian sprouting broccoli. Washington, 1950. 3 p. 1.956 A2Un347
- 24268 U. S. PRODUCTION AND MARKETING ADMIN. United States standards for grades of canned apple juice. Rev. Washington, 1950. 7 p. 1.956 A2Un349
- 24269 U. S. PRODUCTION AND MARKETING ADMIN. United States standards for grades of canned field peas and canned black-eye peas. Washington, 1950. 7 p. 1.956 A2Un349

#### Packing and Packaging

- 24270 BARGER, W. R. Refrigerated strawberry cases. Mod. Packaging 24(3):125-126, 173, 175. Nov. 1950. 309.8 M72



24271 BETTINGER, L. Prepackaging vegetables on our farm. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:56-63. 1950. 75.9 Oh3

24272 BOOT-SCHELLINKHOUT, J. Excursion to English packing stations. (In Dutch.) *Fruitteelt* 40:862-865. Nov.9,1950. 26 N28

24273 FAJON, B. L'emballage en bois normalisé perdu dans le commerce des fruits et légumes. Emballages 20(122):127-131. Dec.1950. 309.8 Em1  
English summary, p. 224.

24274 HIEMELEERS, J. Standardization of fruit and vegetable packaging. (In Flemish.) *Tuinbouwberichten* 14:183-184. Dec.15,1950. 80 T817  
Belgium.

24275 HOUSTON, R., and KALE, E. W. Waxing and new washer save berry hallocks. *West. Canner & Packer* 41(13):57,60. Dec.1950. 286.83 W522

24276 PIROVANO, A. Cellular packing for fruit. (In Italian.) *Terra e Sole* 99:373-374. Nov.1950. 16 T273

24277 STOKES, D. R. The outlook for prepackaged produce. *Hoosier Hort.* 32:126-128. Sept.1950. 81 In2H

24278 VAN DYKE, A. W. Should each county have its own facilities for packing vegetables. *Conn. Veg. Growers' Assoc. Proc.* 37:9-17. 1949. 75.9 C76

#### Prices, Price Control, and Rationing

24279 BLACK, W. E. Quality pricing of raw peas for processing. *Canner* 111(26):10-12. Dec.30,1950. 286.83 C16

24280 JOHNSON, P. L. Effect of higher prices has not yet been felt in raisin markets. *West. Canner & Packer* 41(13):32. Dec.1950. 286.83 W522

24281 KINGMA, H. S. Maximum prices for consumer potatoes. (In Dutch.) *Friesch Landbbl.* 47:722. Nov.17, 1950. 12 F91

24282 U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm-to-retail margins for marketing Southeastern early white potatoes in Philadelphia, New York, Chicago, and Cincinnati, 1949, by W. N. Garrott. Washington, 1950. 4 p. 1.941 F3F224

24283 U. S. PRODUCTION AND MARKETING ADMIN. Wholesale margins for fresh citrus fruits in the Pittsburgh, Pa., wholesale fruit and vegetable market, by L. W. Cochran. Washington, 1950. 20 p. 1.956 F94W62

#### Processing and Storage

24284 AUSTRALIA. CANNED FRUITS BOARD. Twenty-fourth annual report for year 1949-50. Canberra, 1950. 23 p. 286.3939 Au7

24285 BLAISE, R. E. Electronics in the fruit industry. *Fruit Annu.* 1950/51:173,175. 1950. 225 F943  
Sorting and processing.

24286 BUSWELL, C. E. Factors influencing quality of pip fruit. *New Zeal. J. Agr.* 81:427,429,431. Nov.1950. 23 N48J

Care in handling during harvesting, grading and packing.  
24287 CATHCART, W. H. Processed fruits desired by the baker. (Abs.) *Canning Trade* 73(26):16. Jan.15, 1951. 286.83 T67

24288 CAUL, J. F., SJOSTROM, L. B., and TURNER, W. P., JR. Some effects of replacing sucrose by other sweeteners in peaches. *Quick Frozen Foods* 13(4):54-58. Ref. Nov.1950. 389.8 Q4  
In freezing.

24289 COMIN, D. Bin storage for vegetables. *Ohio Veg. & Potato Growers Assoc. Annu. Proc.* 35:96-101. 1950. 75.9 Oh3

24290 COVER, S. How to obtain desirable fill in glass jars of home-canned blackeye peas. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1296,3 p. Nov.29,1950. 100 T31P

24291 CROCE, F. M. Conservación de maíz dulce por el método Appert. *Chacra* 21(241):26-28. Dec.1950. 9 C34

24292 CROCE, F. M. Industrialización de plmentos al natural por el método Appert. *Vinos, Vinás y Frutas* 45:248-249. Nov.1950. 9 Ag89

24293 CRUESS, W. V., GIBSON, A., and BREKKE, J. Avocado products experiments. *Canner* 112(2):11-12,18. (To be cont.) Jan.13,1951. 286.83 C16  
Processing.

24294 DENNISON, M. L. Old Yankee Foods packs canned blueberries. *West. Canner & Packer* 41(13):39-40. Dec.1950. 286.83 W522

24295 DRINKWATER, W. Does it pay to ice vegetables? *Conn. Veg. Growers' Assoc. Proc.* 37:57-64. 1949. 75.9 C76

24296 DUTHIL, J. La conservation des fruits. *Paysan Franç.* 26(395):12-14. Nov.1950. 14 P29

24297 ESKEW, R. K., and others. Superior juice concentrate—yet only a single pass. *Food Indus.* 22:2067-2069. Dec.1950. 389.8 F737

G. W. M. Phillips, R. P. Homiller, and N. H. Eisenhardt, joint authors.  
Grape juice.

24298 GERLACH, M. Be- und verarbeitung von kartoffeln - gestern, heute und morgen. *Kartoffelbau* 1:104-106. (Concl.) Oct.1950. 75.8 K145

24299 GILBERT, R. H. The Australian dried vine fruits industry. *Austral. To-day* 46:55. 1951. 280.8 Au72

24300 SPIES, A. Gedanken zum einkellern. *Kartoffelbau* 1:103-104. Oct.1950. 75.8 K145

24301 GISTL, R. Mikrobiologische fragen bei der obstverwertung. (Abs.) *Angew. Chem.* 62:484. Oct.21, 1950. 384 Z33

24302 GJELSVIK, O. On winter storage of food potatoes. (In Norwegian.) *Norsk Landbr.* 16:415-416. Nov. 10,1950. 11 N8122

24303 GORSLER, A. Grundsätzliches zur kartoffel-lagerhaltung. *Kartoffelbau* 1:109-110. Oct.1950. 75.8 K145

24304 HAMMOND, A. E. Cooling-room for a Surrey grower. *Fruit, Flower & Veg. Trades' J.* 98(23):23,27. Dec.2,1950. 80 F946

24305 HAMMOND, A. E. Progress in quick-freezing. *Fruit Annu.* 1950/51:163-165,167,169,171. 1950. 225 F943

24306 HARVEY, H. G. The mechanism of pectin jelly formation with respect to pH conditions, with particular reference to setting temperature phenomena. *J. Sci. Food & Agr.* 1:307-311. Oct.1950. 382 S012

24307 HEID, J. L. What is the outlook for frozen concentrated orange juice? I. *Quick Frozen Foods* 13(4):48-49,94. Nov.1950. 389.8 Q4

24308 HENKEL, H. Zur frage der herstellung von möhrensäften und tomatensaft. *Nat. u. Nahr. Ausg. B* 4:84. Aug.1950. 80 N218B

24309 HIEMELEERS, J. Fruit processing industry. (In Flemish.) *Tuinbouwberichten* 14:151-152. Oct.15, 1950. 80 T817

24310 HINTON, C. L. The setting temperature of pectin jellies. *J. Sci. Food & Agr.* 1:300-307. Oct.1950. 382 S012

24311 HOARD, B. Apple plants turn to modern equipment. *West. Fruit Grower* 4(11):19-20. Nov.1950. 95.8 G762A

24312 HODGE, E. A. Peppers are washed and waxed electrically. *Elect. on the Farm* 23(10):18-19. Dec.1950. 335.8 EL27

24313 HOLTEN, E. The value of ice in the preservation of fresh vegetables. *Mod. Refrig.* 53:325-326. Nov.1950. 295.8 M72

24314 HOPKINS, E. F., and LOUCKS, K. W. Prevention of the phytotoxic action of sodium orthophenylphenate on citrus fruits by hexamine. *Science* 112:720-721. Dec.15,1950. 470 Sci2

24315 HUMMEL, F. Untersuchungen über das mieten klima. *Kartoffelbau* 1:113-114. Oct.1950. 75.8 K145

24316 HUNTER, A. S., and TALLEY, E. A. Acid hydrolysis of potatoes under pressure. *Amer. Potato J.* 27:425-438. Ref. Dec.1950. 75.8 P842

24317 JETNE, M. Storage of potatoes in the cellar. (In Norwegian.) *Landbrukstidende* 56:932-933. Nov.22, 1950. 11 L236

24318 KAUFMAN, V. F., NIMMO, C. C., and WALKER, L. H. Frozen apple-juice concentrate; application of laboratory data to prospective commercial operations. *U. S. Bur. Agr. & Indus. Chem. AIC-293,7 p.* Nov.1950. 1.932 A2Ag82

Also in *Canner* 112:19-20,30. Jan.6,1951. 286.83 C16

24319 KIHARA, Y., IWAZAKI, Y., and NAKANO, M. On the sweet-potatoes stored in mash state. (In Japanese.) *Tokyo. Food Res. Inst. Rpt.* 3:177-192. June 1950. 389.9 T57

English summary.

24320 KIHARA, Y., and KAWASE, Z. Preparation of sweet-potatoes-flour by means of refrigeration. (In Japanese.) *Tokyo. Food Res. Inst. Rpt.* 3:173-176. June 1950. 389.9 T57

English summary.



- 24321 KÖRNER, W. Die vorteile der lagerung von kartoffeln in festen lagerräumen im vergleich zur meiten-lagerung. Kartoffelbau 1:114-115. Oct.1950. 75.8 K145
- 24322 LEE, F. A., and others. Low temperature preservation of fruit juices and fruit juice concentrates. N. Y. (State) Agr. Expt. Sta. B. 743,18 p. July 1950. 100 N48
- W. B. Robinson, J. C. Henning, and C. S. Pederson, joint authors.
- 24323 LIEBERMAN, M., SCHOMER, H. A., and EZELL, B. D. Effect of storage temperature and type of film on weight loss, package atmosphere, decay, ascorbic acid content, and salability of prepackaged green beans. Pre-Pack-Age 4(4):24-26,28. Dec.1950. 280.38 P91
- 24324 LUDWIG, O. Temporary storage of potatoes. (In Norwegian.) Landbruksstidende 56:790. Oct.4,1950. 11 L236
- 24325 MAKHDUM, N. A., and RIAZ-UR-RAHMAN. Canning of green peas—best selection. Punjab Fruit J. 14(47):4-6. Jan.1950. 80 P962
- 24326 MAKHDUM, N. A., and RIAZ-UR-RAHMAN. Utilization of crab apple for preserve. Punjab Fruit J. 14(47):6-7. Jan.1950. 80 P962
- 24327 MÉJANE, J. Notes sur le travail des pommes de terre par saccharification aux acides. Indus. Agr. et Aliment. 67:381-385. Aug./Oct.1950. 383 As7
- English summary.
- 24328 MIAZDRIKOVA, M. N. Effect of phytoncides on storage of carrots. (In Russian.) Sad i Ogorod 1950 (9):51-52. Sept.1950. 80 Sa13
- 24329 MOYER, J. C. Pilot plant studies of factors affecting the consistency of tomato juice. (Abs.) Canning Trade 73(26):15. Jan.15,1951. 286.83 T67
- 24330 ONNES, H. J. Frozen strawberries in the United States and West Canada. II. (In Dutch.) Groenten en Fruit 6:289. Oct.26,1950. 80 G89
- 24331 PARLBY, I. Preserving vegetables in a pressure canner. Agr. Gaz. N. S. Wales 61:511-512. Oct.2, 1950. 23 N472
- 24332 PEDERSON, C. S., and ALBURY, M. N. Effect of temperature upon bacteriological and chemical changes in fermenting cucumbers. N. Y. (State) Agr. Expt. Sta. B. 744,31 p. Ref. Aug.1950. 100 N48
- 24333 PREUSCHEN, G. Arbeitstechnische fragen bei der lagerhaltung. Kartoffelbau 1:111. Oct.1950. 75.8 K145
- 24334 RAKITSKIĬ, N. P. Pererabotka ovoshchei i plodov v domashnikh usloviakh [Home processing of fruit and vegetables]. Moskva, Gos Izd-vo Selskhoz Lit-ry, 1950. 102 p. 389.3 R13
- 24335 RATH. Die wichtigsten lagerkrankheiten des kernobstes. Gart.-Z. Illus. Flora 73:126-127. Nov.1950. 80 G1991
- 24336 SHIOIRI, H., and OMURA, M. Extraction of pectin from apple pomace. (In Japanese.) Tokyo. Food Res. Inst. Rpt. 3:99-102. June 1950. 389.9 T57
- English summary.
- 24337 SHIOIRI, H., and SUDO, S. The preparation of calcium citrate from dropped citrus fruits. (In Japanese.) Tokyo. Food Res. Inst. Rpt. 3:103-106. June 1950. 389.9 T57
- English summary.
- 24338 SILVEIRA, A. H. DA. Industrializando banana, goiaba e laranja. Vamos para o Campo! 55,20 p. 1950. 9.2 V25
- 24339 SKEPPER, A. H., and DAVISON, J. R. Dehydration of fruit. Agr. Gaz. N. S. Wales 61:505-510,594-597. (To be cont.) Oct.2,Nov.1,1950. 23 N472
- 24340 SMITH, O. What the chipping industry means to the potato grower. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:119-124. 1950. 75.9 Ch3
- 24341 SMITH, R. B. 23-minute corn freezing plant in Utah. West. Canner & Packer 41(13):43-44. Dec.1950. 286.83 W522
- 24342 SOKOL, P. F. On conditions for potato storage. (In Russian.) Sad i Ogorod 1950(9):69-71. Sept. 1950. 80 Sa13
- 24343 TOSELO, A. Instructions for the drying of kakis. (In Portuguese.) Colheita e Mercados 6:21-23. Jan./Feb.1950. 255.3 Sa652
- 24344 WANGERIN, A. Sicherer frostschutz in mieten und kellern. Kartoffelbau 1:111-112. Oct.1950. 75.8 K145
- 24345 WARREN, L. A. Refrigeration is key to modernization of grocery chain. Refrig. Engin. 59:63-64. Jan.1951. 295.9 Am32J
- Includes fruit and vegetable refrigeration.
- 24346 WHITAKER, C. A new industry in Uruguay. (In Portuguese.) Fazenda 45(12):22-24. Dec.1950. 6 H11P
- Canned peas.
- 24347 WICKLIFFE, J. A. Mechanical handling of Calif. dried prunes. West. Canner & Packer 41(13):29-31. Dec.1950. 286.83 W522
- 24348 WILLIAMS, T. Como aumentar la vida de las manzanas en depósito. Chacra 21(241):35. Dec.1950. 9 C34

## Statistics

- 24349 BORUM, C. J. Estimating flood damage to the bean crop in Michigan. Agr. Econ. Res. 3:16-17. Jan. 1951. 1 Ec7Agr
- 24350 CUENOT, G. L'évolution des plantations d'agrumes au Maroc. Terre Marocaine 24:410-413. Oct.1950. 24 T44
- Statistical.
- 24351 GT. BRIT. COMMONWEALTH ECONOMIC COMMITTEE. INTELLIGENCE BR. Fruit; a summary of figures of production and trade relating to fresh, canned and dried fruit, and wine. London,1950. 116 p. 280.39 G794C
- 24352 HELLER, F. Der obstbau in den land- und forstwirtschaftlichen betrießen. Bayern in Zahlen 4:487-488. Oct.1950. 265 B34
- Statistics.
- 24353 HICKINBOTHAM, A. R. Production du vignoble australien. Off. Internatl. du Vin. B. 23(237):23-25. Nov.1950. 390.8 B87
- Statistics.
- 24354 HÖNL. Reiche obsternte. Statist. Monatsh. Württemberg-Baden 4:303. Sept.1950. 265 St24
- Statistics.
- 24355 HÖNL. Wachstumsstand von gemüse. Statist. Monatsh. Württemberg-Baden 4:304. Sept.1950. 265 St24
- Statistics of area and yield.
- 24356 U. S. BUR. OF AGRICULTURAL ECONOMICS. Annual berry summary [Oregon], 1950 crop. Portland, Oreg.,1951? 2 p. 1.941 H8B45
- 24357 U. S. BUR. OF AGRICULTURAL ECONOMICS. Commercial truck crops for fresh market; acreage, production and value by seasonal groups and States, with comparisons; 1950 annual summary. Washington,1950. 48 p. 1.941 H8V525
- 24358 U. S. PRODUCTION AND MARKETING ADMIN. Dry field peas: acreage, yield, and production, United States [1928-50]. Washington,1950. 2 p. 1.956 G76D844
- 24359 WHITE, L., and MACNICOL, C. Tasmanian apple yields. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 3:156-158. Oct.1950. 281.9 Au73

## GRAIN AND GRAIN PRODUCTS

- 24360 ÅKERMAN, Å., LINDBERG, J. E., and AUGUSTIN, S. Investigations on the quality of the 1949 bread grain crop. (In Swedish.) Sveriges Utsädesför. Tidskr. 60:385-414. 1950. 61.9 Sv23
- 24361 ALDRED, F. L., and KRAMER, H. A. Rice drying. Tex. Agr. Expt. Sta. Prog. Rpt. 1294,2 p. Nov.24, 1950. 100 T31P
- 24362 ALESSANDRINI, M. E., and AMORMINO, V. Research on DDT in flours. (In Italian.) Chlm. & Indus. 64(3,spec.no.):68-69. Sept.1950. 383 C42
- 24363 ALLISON, J. B., and others. The effects of chlorine dioxide on the nutritive value of wheat gluten. Cereal Chem. 27:495-500. Ref. Nov.1950. 59.8 C33
- J. I. White, E. P. Ajemian, and J. S. Roth, joint authors.
- 24364 ALTSCHUL, A. M. Research investigation on rice at the Southern Regional Research Laboratory. Rice J. 53(12):25-29. Dec.1950. 59.8 R36
- Utilization.
- 24365 AMAT URRUTIA, J. Dosaje fotocolorimétrico del ácido nicotínico en algunas harinas nacionales. Cong. Peruano de Quim. Actas y Trab. 1949(2):471-472. 385 C763
- 24366 ANDERSON, J. A. Protein survey of western Canadian wheat,1950 crop. Canada. Grain Res. Lab. Crop. B. 38,31 p. Nov.1950. 59.9 C161P



- 24367 BAIN, H. M. Necessity mothers co-ops for other crops. *News Farmer Coop.* 17(10):18-19, 26. Jan. 1951. 166.2 N47  
Cooperative handling of rice, tobacco, dry beans, sugar-cane, and honey.
- 24368 BAIRD, P. D., MACMASTERS, M. M., and RIST, C. E. Studies on a rapid test for the viability of corn for industrial use. *Cereal Chem.* 27:508-513. Ref. Nov. 1950. 59.8 C33
- 24369 BAPTIST, N. G. Amino-acid analysis of cereal protein—the nitrogen and threonine contents of Ceylon cereals. *Trop. Agr. [Peradeniya]* 106:3-6. Ref. Jan./Mar. 1950. 26 T751
- 24370 BARRACANO, P. Hard wheat and production of alimentary paste. (In Italian.) *Molini d'Italia* 1:42. May 1950. 298.8 M73  
English summary, p. 40.
- 24371 BAUM, R. K. Industrial utilization of Pacific Northwest wheat. *Oreg. Wheat Comm. Res. Rpt.* 1,35 p. Mar. 1950. 59.9 Or3R
- 24372 BERNARD, P. Assolements de circonsance; les prix du blé et de la viande. *Monit. Agr.* 3(139):1-2. Dec. 10, 1950. 14 M744
- 24373 BHATTACHARJEE, J. P. Price control and price spread in the marketing of rice in West Bengal. *Indian J. Agr. Econ.* 5(2):22-38. Aug. 1950. 281.8 In2
- 24374 BORUFF, C. S. Pneumatic handling of grain products. (Sum.) *Feedstuffs* 22(49):15. Dec. 9, 1950. 286.81 F322
- 24375 CAMPBELL, A. J. International wheat situation. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 3:172-177. Oct. 1950. 281.9 Au73
- 24376 CANADA GRAIN RESEARCH LABORATORY. Protein content of hard red spring wheat, 1950 crop, final map as of October 10. Winnipeg, 1950. map. 59.9 C161P
- 24377 CASA-PACHECO, MARQUES DE. Las disposiciones oficiales en agricultura. *Siembra [Madrid]* 6(10):8-9. Oct. 1950. 15 S11  
With reference to grain.
- 24378 CLARK, R. E. Box cars—past, present, future. (Excerpts.) *Grain & Feed J. Consolidated* 105(11):21. Dec. 13, 1950. 298.8 G762  
Grain transportation.
- 24379 CRUZ, S. R., and LAFORTEZA, A. Artificial drying of rough rice. *Philippine Agr. Engin. J.* 1:20-23. Ref. *First Q.* 1950. 58.8 Ag88
- 24380 CURTIS, V. A. Modern mill to serve rich farming counties. *Milling & Feed* 31(11):15-17. Nov. 1950. 298.8 C162  
Canada.
- 24381 DACHTLER, W. C. Grain drying is indispensable. *Mktg. Activ.* 13(11):3-6. Nov. 1950. 1.942 A8M34
- 24382 DELEAU, J. Il est possible d'organiser un marché européen des céréales. *Défense Agr. de la Beauce et du Perche* 47:433. Nov. 25, 1950. 14 D36
- 24383 DELGADO ROMERO, D. Aplicación bromatológica de los gérmenes de trigo y maíz y su industrialización. *Cong. Peruano de Quím. Actas y Trab.* 1949(2):476-480. 385 C763
- 24384 DIEMAIR, W., JANECKE, H., and IDSTEIN, J. Enzymatische aktivitätsveränderungen im hafer. *Stärke* 2:243-250. Ref. Oct. 1950. 309 St22
- 24385 DOERR, A. "Air power" for flour, Minnesota research project, points up pneumatic-conveying refinements. *Amer. Miller & Processor* 79:42. Jan. 1951. 298.8 Am32
- 24386 DU COURTIL, A. Comment conditionner et conserver le super-maïs? *Vie à la Campagne* 39:364. Nov. 1950. 80 V67
- 24387 DULY, S. J. The stowage of timber over grain. *Broomhall's (George) Corn Trade News, Wk. & Amer. Ed.* 60:649. Dec. 20, 1950. 286.81 B79
- 24388 DUMEIGE, A. L'amélioration de la culture des blés durs. *B. Econ. et Social de la Tunisie* 46:20-30. Nov. 1950. 280.8 B874  
The industry in Tunisia.
- 24389 ELDERS, A. T. Requirements of the domestic malting industry. *Canada. Natl. Barley & Oil Seeds Comt. Proc. Annu. Mtg.* 16:50-51. 1949. 59.9 C169
- 24390 ERLICH, V. L., and BURKERT, G. M. Beta-amylase activities of barley, wheat, and rye. *Cereal Chem.* 27:423-437. Ref. Nov. 1950. 59.8 C33
- 24391 EVANS, S., STATISTICAL SERV. Grain trade year book, v. 30, 1949-50. Winnipeg, 1950. 130 p. 286.3599 C16  
Canadian and world statistics.
- 24392 FILES, H. W. Closer ties between farmers—millers. *Mod. Miller & Bakers News* 77(25):22-23, 29. Dec. 9, 1950. 298.8 M72
- 24393 FOSTER, J. F., YANG, J. T., and YUI, N. H. Extraction and electrophoretic analysis of the proteins of corn. *Cereal Chem.* 27:477-487. Nov. 1950. 59.8 C33
- 24394 FRY, H. S. Certificate final. *Country Guide* 70(1):9, 30-33. Jan. 1951. 7 G76  
Canada's system of grain grading under the Canada Grain Act.
- 24395 GADD, I. This year's fall grain. (In Swedish.) *Lantmannen* 34:757. Sept. 30, 1950. 11 L234  
Quality in Sweden.
- 24396 GLABAU, C. A. A study of the baking characteristics of the 1950 soft winter wheat flour. III-V. *Bakers Wk.* 148(13):46-49; 149(1):47-49; (2):46-48. Dec. 25-Jan. 8, 1951. 389.8 B172
- 24397 GRAEFE, G. Die bestimmung des wasserbindungsvermögens von quellmehlen. *Stärke* 2:272-273. Nov. 1950. 309 St22  
English summary.
- 24398 GRAY, W. D. Milling 50 years ago: the golden era of milling. 13. *Nowest. Miller (Milling Prod. Sect.)* 244(11):5a-8a, 11a. Dec. 12, 1950. 298.8 N81
- 24399 GUSLER, G. Good demand may raise feed grain prices. *Mich. Farmer* 214:381. Dec. 2, 1950. 6 M58  
Also in *Nebr. Farmer* 92(23):5. Dec. 2, 1950. 6 N27
- 24400 GWILLIM, G. M. A small miller's reflections. *Milling* 115:220-222, 224. (Concl.) Aug. 26, 1950. 298.8 M622
- 24401 HALL, T. E. Swifter grain handling brings co-op changes. *News Farmer Coop.* 17(10):16-17. Jan. 1951. 166.2 N47
- 24402 HARRIS, R. H. Effects of drying of wet wheat on milling and baking quality. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:89-90. Nov./Dec. 1950. 100 N813B
- 24403 HARTLEY, A. W. Windmills. *Arkady Rev.* 27:70-76. Dec. 1950. 389.8 Ar4
- 24404 HASHIMOTO, Y. Komugi-seifun to seimen [Wheat milling and vermicelli manufacture]. Tokyo, Chikyu Shuppan, 1949. 255 p. 298 H27
- 24405 HEISS, R. Einige beobachtungen bei der herstellung von hafererzeugnissen. (Abs.) *Angew. Chem.* 62:484. Oct. 21, 1950. 384 Z33
- 24406 HEUSS, R. Gersten der ernte 1950. *Brauwelt* 1950:1040-1044. Dec. 7, 1950. 390.8 B732  
Analysis in Germany.
- 24407 HOPMANN. Sortenvermehrung und sorteneignung bei winter- und sommergetreide in Brandenburg. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:206-209. Dec. 1950. 18 D4822  
Statistical.
- 24408 JONES, S. N. Freedom in chains. (Excerpts.) *Grain & Feed J. Consolidated* 105(12):12. Dec. 27, 1950. 298.8 G762  
Controls in the grain industry.
- 24409 KERR, J. Know your ingredients: malt and malt products. *Brit. Baker* 121(17):52, 56, 59, 61, 63, 65. Dec. 8, 1950. 389.8 B772
- 24410 KHAN, Q. Deterioration of different grades of polished rice in storage. *Indian J. Ent.* 10:279-286. Dec. 1948, pub. Oct. 1950. 420 In23  
Includes insect damage.
- 24411 KRAUSS, G., and REBMANN, A. Einige analysen von gersten des jahrgangs 1950. *Brauwelt* 1950:1004-1005. Nov. 23, 1950. 390.8 B732  
Germany.
- 24412 KUBO, S., and TSUTSUMI, C. Application of cation exchange resin in the determination of phosphorus in cereals and beans. (In Japanese.) Tokyo. *Food Res. Inst. Rpt.* 3:75-85. Ref. June 1950. 389.9 T57  
English summary.
- 24413 KUNZE, E. E. "The General" in Chicago. 3. The cereal mill. *Amer. Miller & Processor* 79:46, 108, 110, 112. Jan. 1951. 298.8 Am32
- 24414 LARKEY, G. F. The growing and handling of wheat in Peru. *Milling* 115:647, 650. Dec. 16, 1950. 298.8 M622
- 24415 LEASE, E. J. The future for the corn meal industry in the Southeast. *Amer. Miller & Processor* 79:73, 116. Jan. 1951. 298.8 Am32
- 24416 LEROY, and CREUZOT. Une application du froid à la protection des cereales ensilées. *Rev. Prat. du Froid* 6(3):19-20. Dec. 1950. 295.8 R323



- 24417 LOCKARD, C. R. 8 points to longer life for your attrition mill. *Milling & Feed* 31(12):15,40. Dec. 1950. 298.8 C162
- 24418 LOMA, J. L. DE LA. La producción mundial de trigo despues de la última guerra. *Tierra* [Mexico] 5:529-531,574-575. Oct. 1950. 8 T445
- 24419 MCLAREN, B. A., and HARRINGTON, A. H. Unifine flour; whole wheat flour, finely granulated by a special milling process, produces bread of high consumer acceptability. *Baker's Digest* 24(6):23-26. Dec. 1950. 389.8 S11
- 24420 MALOTT, D. W. Responsibilities of grain men in Government administration. (Excerpts.) *Grain & Feed J. Consolidated* 105(10):12-13. Nov. 22, 1950. 298.8 G762
- 24421 MEULEN, J. G. J. VAN DER. Scientific promotion of rice culture in Indonesia during the last hundred years. (In Dutch.) *Econ. Weekbl. v. Indonesië* 16: 800-803. Oct. 14, 1950. 280.8 Ec76
- 24422 MILNER, M., and DODGE, W. W. Influence of bleaching on the absorption spectra of butyl alcohol extracts of wheat flour. *Cereal Chem.* 27:501-507. Nov. 1950. 59.8 C33
- 24423 MINAURO DELGADO, J. Análisis mineral del Chenopodium quinoa Willd de la región del Cuzco. *Cong. Peruano de Quím. Actas y Trab.* 1949(2):519-520. 385 C763
- 24424 MIRA IZQUIERDO, L. Excelentes cosechas de cereales en el Hemisferio Norte. *Tolva* 88:671-675. Sept. 1950. 59.8 T58T
- 24425 MOORE, A. Q. Hedging by a wheat flour miller. *Nowest. Miller* 244(10):26,30,54,58-59,61. Dec. 5, 1950. 298.8 N81
- 24426 MOSSEL, D. A. A. Bestrijding van microbiologisch bederf in graanbedrijven, maalderijen en bakkerijen [Prevention of microbial spoilage in flour mill and bakery]. *Cent. Inst. v. Voedingsonderz. T.N.O. P.* 105: 54-61. Ref. 1950. 389.9 Ut7  
English summary.
- 24427 MOUAT, H. G. Power loaders cut costs. *Milling & Feed* 31(11):22,25. Nov. 1950. 298.8 C162  
Flour and feed.
- 24428 NAGHSKI, J., and others. Factors affecting the rutin contents of dried buckwheat meals. *Amer. Pharm. Assoc. J. Sci. Ed.* 39:696-698. Dec. 1950. 396.9 Am33J  
C. F. Krewson, W. L. Porter, and J. F. Couch, joint authors.
- 24429 NAKANO, M., EBINE, H., and SHIZYO, N. On "syobaku" (wheat-bran available for "syoyu" making) produced out of wheat of various milling rates. (In Japanese.) *Tokyo. Food Res. Inst. Rpt.* 3:107-120. Ref. June 1950. 389.9 T57  
English summary.
- 24430 NATHIER, M. The qualities of bread. (In Portuguese.) *Seleç. Agr.* 5(54):71-72. Oct. 1950. 9.2 Se4  
Includes baking quality of flour.
- 24431 NEENAN, J. L. The degerminated-corn mill. *Amer. Miller & Processor* 79:44-45,70. Jan. 1951. 298.8 Am32  
Equipment.
- 24432 NIHEI, T. Seimai to sekoku [Cleaning rice and other grains]. *Tokyo, Chikyu Shuppan*, 1949. 623 p. 59 N57
- 24433 OGILVIE, J. C. Community mill in Ohio thriving. *Amer. Miller & Processor* 79:104. Jan. 1951. 298.8 Am32
- 24434 OREGON WHEAT COMMISSION. A report, July 1, 1948 to June 30, 1950. *Pendleton*, 1950. 23 p. 59.9 Or3
- 24435 PAGNON, R. Le marché mondial du riz et ses incidences politiques. *Marchés Colon.* 6:2884-2886. Dec. 2, 1950. 286.8 M33
- 24436 PAREJA EGUEZ, O. La producción y exportación de arroz de Santa Cruz. *Campo* [La Paz] 4(34):5-6. Feb. 1950. 9.1 C15  
Bolivia.
- 24437 PARKIN, T. E. The packing, storage and handling of flour mill products. *Milling* 115:48-49. (Cont.) July 8, 1950. 298.8 M622
- 24438 PICOTA, E. La importancia del cultivo de arroz. *Rev. de Agr., Com. e Indus.* [Panama] 8(110):15-17. Oct. 1950. 8 R3291  
Panama.
- 24439 PLEVOETS, C. L'extrait dans l'orge. *Fermentatio* 1950:99-115. 390.8 F38
- 24440 POST, R. E. The outlook for wheat in 1951-52. *Washington, U. S. Bur. Agr. Econ.*, 1950. 2 p. 1.941 A2P845  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.
- 24441 POUDEROUX, J. La production et le marché des céréales algériennes. *Cour. Agr.* 15(22):1-2. Oct. 25, 1950. 24 C83
- 24442 PROTIN, La qualité des blés. *Défense Agr. de la Beauce et du Perche* 47:442-443. (Cont.) Dec. 2, 1950. 14 D36
- 24443 PURR, A. Über die bestimmung des säuregrades in mehlen verschiedener herkunft. (Abs.) *Angew. Chem.* 62:484-485. Oct. 21, 1950. 384 Z33
- 24444 QUINTANA-MARI, A., and GARCIA GARBIA, M. Etude sur l'analyse des mélanges de farines panifiables. 1. Viscosité des extraits de froment et de seigle. (Abs.) *Chim. & Indus.* 64(3,spec.no.):103. Sept. 1950. 383 C42
- 24445 RATHMANN, D. M., and MORROW, L. R. Sitosterols from corn gluten. *Amer. Chem. Soc. J.* 72: 5647-5650. Ref. Dec. 1950. 381 Am33J
- 24446 RINGWALD, H. La récolte de céréales 1950. *B. Econ. et Social de la Tunisie* 45:12-14. Oct. 1950. 280.8 B874  
Statistics.
- 24447 ROCCA. Equipment of the small mill. (In Italian.) *Seleç. di Tec. Molitoria* 1:39-40. Sept. 1950. 298.8 Se42
- 24448 ROCHA, G. L. DA., BOTELHO QUÍMICO, L. B., and BECKER, M. Adlay grain. (In Portuguese.) *Colheit. e Mercados* 6:13-15. Jan./Feb. 1950. 255.3 Sa652  
Analysis.
- 24449 ROWAN, W. D. High speed v low speed sifters. *Milling* 115:226. Aug. 26, 1950. 298.8 M622
- 24450 RUPP, E. Selects best wheat; sedimentation test classifies grain according to baking quality. *Mo. Rur.* 91(22):6-7. Nov. 25, 1950. 6 R8891
- 24451 RYAN, J. C. Rice marketing in Siam. *Madras J. Co-op.* 42:211-214. Oct. 1950. 280.28 M26
- 24452 SANPEDRO, E. A. Del pan, del trigo y de la próxima cosecha. *Agr. Burgales* 17(192):10-13. (Cont.) Dec. 1950. 15 Ag86
- 24453 SASTRE DEL BLANCO, M. El pan nuestro de cada día. *Saragossa. Cám. Ofic. Sind. Agr. B. Mens.* 28: 4. Sept. 1950. 15 Sa7  
Wheat policy.
- 24454 SIBBITT, L. D. A new fermentation cabinet. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:62-64. Nov./Dec. 1950. 100 N813B  
Testing baking quality of flour.
- 24455 SMITH, R. G. C. Italian wheat harvest this year indicates agricultural recovery. *Foreign Trade* 8: 1046-1048. Dec. 16, 1950. 286.8 C162
- 24456 SNODGRASS, D. Farm storage of wheat in Washington, 1948-49. *Wash. Agr. Expt. Sta. C.* 109,9 p. Sept. 1950. 100 W27S
- 24457 SOLLEDER, W. Jetzt muss der strohsilo helfen! *Württemberg. Wchnbl. f. Landwirt.* 117:990. Oct. 28, 1950. 18 W96
- 24458 SOUZA, A. O. DE. Warning on the production and commerce of rice. (In Portuguese.) *Lav. Arroz.* 4(45):43-44,46. Sept. 1950. 59.8 L39  
Brazil.
- 24459 TANI, T., and TETSUJIRO, M. Kome, mugl oyobi zakkoku no kako [Processing of rice, wheat and other grains]. *Tokyo, Yuzankaku*, 1950. 289 p. (Eiyo Shokuryo Soshu no. 10) 59 T15
- 24460 TANI, T., and TAKATORI, M. On chemical quality of 96% milled rice. (In Japanese.) *Tokyo. Food Res. Inst. Rpt.* 3:49-66. June 1950. 389.9 T57  
English summary.
- 24461 TANI, T., and others. On milling of barley or naked barley and chemical quality of milled barley (first report). (In Japanese.) *Tokyo. Food Res. Inst. Rpt.* 3:27-40. June 1950. 389.9 T57  
S. Chikubu, O. Asami, and H. Tajima, joint authors. English summary.
- 24462 TANI, T., and others. On milling process of 94% milled rice and its vitamin B1. (In Japanese.) *Tokyo. Food Res. Inst. Rpt.* 3:41-48. June 1950. 389.9 T57  
S. Arisaka, O. Asami, and M. Kudo, joint authors. English summary.



- 24463 TANI, T., and CHIKUBU, S. Relation between thickness and chemical components of rice and rice bran layer. (In Japanese.) Tokyo. Food Res. Inst. Rpt. 3:11-26. Ref. June 1950. 389.9 T57  
English summary.
- 24464 TRIPLETT, J. F. The grain situation in the Southwest. Grain Prod. News 3(7):5-6. Dec.1950. 286.81 G764
- 24465 TUO, P. T. The importance of chemical control in the modern mill. (In Italian.) Selez. di Tec. Molitoria 1:41-42. Sept.1950. 298.8 Se42
- 24466 UEMURA, M., and ENDO, J. On the imported corn. (In Japanese.) Tokyo. Food Res. Inst. Rpt. 3:193-213. June 1950. 389.9 T57  
English summary.  
Milling.
- 24467 ULONSKA, E. Ergebnisse der bayerischen landesbraugerstenschau 1950. Brauwelt 1950:1021-1025. Nov.30,1950. 390.8 B732  
Analysis and composition.
- 24468 U. S. COMMODITY EXCHANGE AUTHORITY. Barley and oats summary for the crop year beginning July 1949. Chicago,1950. 6 p. 1.913 A2824  
U. S. Extension Service and U. S. Production and Marketing Administration cooperating.
- 24469 U. S. COMMODITY EXCHANGE AUTHORITY. Wheat and rye summary for the crop year beginning July 1949. Chicago,1950. 10 p. 1.913 A2W56  
U. S. Extension Service and U. S. Production and Marketing Administration cooperating.
- 24470 U. S. PRODUCTION AND MARKETING ADMIN. Buckwheat: acreage, yield, and production, United States. Washington,1950. 2 p. 1.956 G76B852
- 24471 U. S. PRODUCTION AND MARKETING ADMIN. Buckwheat; supply-distribution, 1924 to date. Washington, 1950. 2 p. 1.956 G76B85
- 24472 U. S. PRODUCTION AND MARKETING ADMIN. Classes of wheat lifted by claimants, 1949/50. Washington,1950. 1 p. 1.956 G76C56
- 24473 U. S. PRODUCTION AND MARKETING ADMIN. Corn; acreage yield and production, 1919 to 1950. Washington,1950. 2 p. 1.956 G76C815
- 24474 U. S. PRODUCTION AND MARKETING ADMIN. Grain sorghums; acreage, yield, and production, United States. Washington,1950. 2 p. 1.956 G76G764
- 24475 U. S. PRODUCTION AND MARKETING ADMIN. Wheat; acreage, yield, and production, 1919 to date. Washington,1950. 4 p. 1.956 G76W566
- 24476 WOOD, G. B. The season's barley, 1950. Inst. Brewing J. 56:361-364. Nov./Dec.1950. 390.9 In7
- 24477 ZAMBRANO, C. Grain control two hundred years ago in tiny glorious Piedmont. (In Italian.) Molini d'Italia 1:51-54. May 1950. 298.8 M73
- 24478 ZIPF, R. L., ANDERSON, R. A., and SLOTTER, R. L. Wet milling of grain sorghum. Cereal Chem. 27: 463-476. Ref. Nov.1950. 59.8 C33
- HONEY AND BEESWAX**
- 24479 BRYCE, D. L., and BRYCE, D. H. Honey showing and judging. II. Bee Craft 32:212. Dec.1950. 424.8 B3925
- 24480 COX, C. L. Labelling of honey. Bee Craft 32: 210. Dec.1950. 424.8 B3925  
Great Britain.
- 24481 EDBERG, S. Honey—unsalable commodity. (In Swedish.) Bitidningen 49:407-408. Dec.1950. 424.8 B54  
Sweden.
- 24482 JORDAN, L. J. Advertising again. Mod. Bee-keeping 35:335,344. Oct.15,1950. 424.8 B397  
Honey.
- 24483 KENNING, W. Miel de abeja. Campo [La Paz] 4(25):11-13. Mar.1950. 9.1 C15  
Statistics.
- 24484 POPKEN, G. The national honey brand. (In Dutch.) Maandschr. v. Bijenteelt 52:179. Nov.1950. 424.9 V58
- 24485 SMITH, H. G. Handling the honey crop. Agr. Gaz. N. S. Wales 61:603-604. Nov.1,1950. 23 N472
- LIVESTOCK AND LIVESTOCK PRODUCTS**
- 24486 ANGELL, G. N. New life for the sheep industry. Utah Farmer 70:382-383. Dec.7,1950. 6 D45
- 24487 BAKER, M. L. Cattle in the "down-under" [Queensland]. Nebr. Farmer 93(1):7. Jan.6,1951. 6 N27
- 24488 BERGER. Les possibilités de l'élevage. Marchés Colon. 6:2691-2692. Nov.11,1950. 286.8 M33  
Guiana.
- 24489 BERTONE, E. B. Lessons from the Australians. West. Farm Life 53(Annu. Livestock Rev. 1951): 179-181. Jan.1,1951. 6 R153  
The Australian sheep industry.
- 24490 BLACKLEY, S. R. Pigs: production reaches a critical point. Farmer & Stock-Breeder 64:3284-3285. Dec.19,1950. 10 F228  
England.
- 24491 BRALEY, R. D. Sheep are coming back to Maine. New Eng. Homestead 123(21):7-8. Nov.11,1950. 6 N442
- 24492 BRATZLER, L. J. The opportunity for co-operative meat research between the agricultural experiment stations and with the United States Department of Agriculture. Reciprocal Meat Conf. Proc. 3:103-108. 1950. 50.9 R24  
Includes discussion.
- 24493 BRAY, R. W. Advanced meat courses for graduate students. Reciprocal Meat Conf. Proc. 3:44-50. 1950. 50.9 R24  
Includes discussion.
- 24494 BROADBENT, D. A. Surplus of meat animals will continue to shrink in Utah and other western States. Farm & Home Sci. [Utah Sta.] 11:69,89. Dec.1950. 100 UtlF
- 24495 BULL, S. The need for meat research in the meat section of animal husbandry departments. Reciprocal Meat Conf. Proc. 3:109-120. 1950. 50.9 R24  
Includes discussion.
- 24496 BURTON RODRÍGUEZ, G. Panorama ganadero del Beni. Campo [La Paz] 4(35):5-6. Mar.1950. 9.1 C15
- 24497 BUTLER, O. D., JR. The need for uniformity in meat courses in the animal husbandry curriculum. Reciprocal Meat Conf. Proc. 3:11-14. 1950. 50.9 R24  
Includes discussion.
- 24498 CAHILL, V. R. Methods for grading students in the meat laboratory work. Reciprocal Meat Conf. Proc. 3:86-90. 1950. 50.9 R24  
Includes discussion.
- 24499 CARNES, N. K. Dramatic changes in store for 1951 meat producers. Com. West 101(2):27,29. Jan.13,1951. 286.8 C733  
Outlook for the livestock industry.
- 24500 CATHCART, R. B. Early growth of Kansas depended upon horses. Kans. Farmer 87(23):13,28. Dec. 2,1950. 6 K13  
Chiefly the industry in the State.
- 24501 CHAIN STORE AGE. 1950 meat manual. Chain Store Age, Grocery Mgr. Ed. 26(11):83-146. Nov. 1950. 286.28 C34  
Describes the various meat cuts.
- 24502 COFFEY, J. S. Meeting our pork needs. Berkshire News 16(3):12. Jan.1951. 46.8 B454
- 24503 DAY, B. Beef cattle production in southern Oregon. Oreg. Dept. Agr. B. 168:19-20. Dec.1950. 2 Or3
- 24504 DRENNER, W. E. As meat producers we're moving. South. Livestock J. 10(6):44. Jan.1951. 43.8 F66A
- 24505 ELLIOTT, J. A. Raising money with red hogs. Prog. Farmer, Ga.-Ala.-Fla. Ed. 65(12):16. Dec.1950. 6 P945G
- 24506 FARWELL, E. D. Meat courses designed for students in home economics, hotel and restaurant management and food technology. Reciprocal Meat Conf. Proc. 3:23-30. 1950. 50.9 R24  
Includes discussion.
- 24507 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Commodity reports: meat and livestock. Washington,1950. 28 p. 281.3509 F73
- 24508 FRENCH, M. H. East African hides and skins industry. 2. Leather Trades' Rev. 98:439-442. (Cont.) Dec.6,1950. 303.8 L48
- 24509 GRAY, B. To be or not to be a sheepman. Rec. Stockman, Annu. Ed. (1951)61(52):98-99. Dec.28,1950. 49 D43  
In Colorado.
- 24510 HALL, R. The greatest good—many achievements mark 53 years of service by the American National West. Livestock J. 29(6):92,97,169. Dec.15,1950. 6 F2278  
American National Livestock Association.



- 24511 HANKINS, O. G. Observations and comment on the subject matter presented on the research program. Reciprocal Meat Conf. Proc. 3:160-172. 1950. 50.9 R24 Includes discussion.
- 24512 HARTNELL, J. California's [beef] cattle industry. Amer. Cattle Prod. 32(7):9-10,58-59. Dec.1950. 49 P94
- 24513 HUPKES, C. M. The development of the Netherlands stock of pigs. (In Dutch.) Econ.-Statist. Ber. 35:954-958. Nov.29,1950. 280.8 Ec722 English summary, p. 951.
- 24514 INDA, I. Douglas [County, Oregon] leads the State in sheep. Oreg. Dept. Agr. Agr. B. 168:21-22. Dec.1950. 2 Or3
- 24515 JOHNSON, V. K. Procedure followed for maintaining a complete inventory of materials and equipment in a meat laboratory. Reciprocal Meat Conf. Proc. 3:91-95. 1950. 50.9 R24
- 24516 JOLY, R. L. L'organisation du grand élevage industriel de plein air en Algérie. Rev. Internat. des Prod. Colon. 25:205-206. Nov.1950. 286.8 R326
- 24517 JONES, J. M. 85 years of service—National Wool Growers Assn. works on 25 current problems of sheepmen. West. Livestock J. 29(6):104,106,109. Dec. 15,1950. 6 F2278
- 24518 KELLOGG, C. E. How Fed. Gov't. serves the rabbit industry. Amer. Rabbit J. 20:179-180. Dec.1950. 40.28 Am3
- 24519 KJØS, O. Current problems in production and marketing of meat and pork. (In Norwegian.) (Sum.) Norsk Landbr. 16:448-451. Nov.24,1950. 11 N8122
- 24520 KLINE, E. A. Utilizing the departments of home economics, chemistry, bacteriology, horticulture, nutrition, veterinary medicine, meat instruction and research. Reciprocal Meat Conf. Proc. 3:69-72. 1950. 50.9 R24 Includes discussion.
- 24521 LEWIS, L. H. Florida the land of livestock opportunities. For Sale, Want & Exch. B. 3(3):1,4. Dec.1,1950. 280.38 F74
- 24522 LOEFFEL, W. J. A challenge to meat instruction and research in the next twenty-five years. Reciprocal Meat Conf. Proc. 3:189-192. 1950. 50.9 R24
- 24523 LUNDING, F. J. What is the meat business? Butchers' Advocate 128(21):8-11. Nov.22,1950. 286.85 B97
- 24524 MCCULLOUGH, W. B. Argentine Livestock Institute. Overseas Rpt. Agr. Devlpmt. 9,3 p. Dec.1950. 281.9 C16420
- 24525 MCDONALD, G. A. Summary: agricultural college and university meat teaching questionnaire. Reciprocal Meat Conf. Proc. 3:59-65. 1950. 50.9 R24
- 24526 MACKINTOSH, D. L. Graphic course plan for a college meat curriculum. Reciprocal Meat Conf. Proc. 3:51-55. 1950. 50.9 R24
- 24527 MAULE, J. M. Crfa de cerdos en las colonias británicas. Rev. Nac. de Agr. [Bogotá] 44(546):35-41. Oct.1950. 9.4 R32
- 24528 MITCHELL, M. P. Why are sheep numbers declining? Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1950:4-5. Nov.27,1950. 275.29 In2Em
- 24529 PARISI, O. Should we produce milk or meat? (In Italian.) Mondo del Latte 1950:532-534,537,539. Oct. 1950. 44.8 M74 English summary. Italy.
- 24530 PEARSON, A. M. On what basis are graduate students used in teaching and research? Reciprocal Meat Conf. Proc. 3:73-78. 1950. 50.9 R24 Includes discussion.
- 24531 PLAGER, C. Carcass demonstrations serve a need. Poland China World 37(12):15-16. Jan.1951. 46.8 Sw62
- 24532 POHL, A. Tierzucht in Österreich. Übersicht 1(2):7-11. Oct.1,1950. 18 Ub3
- 24533 RANSOM, E. T. World fur production and trade. Foreign Agr. 14:270-273. Dec.1950. 1.9 Ec7For
- 24534 RECIPROCAL MEAT CONFERENCE, 3, 1950. Proceedings, Chicago, Illinois, June 13-16, 1950. Chicago, 1950. 202 p. 50.9 R24
- 24535 REEVES, F. No better buy than good land and good cattle. Amer. Hereford J. 41(17):70-71,250. Jan.1,1951. 43.8 Am32 The beef cattle industry.
- 24536 RICHARDS, F. 1950—a black year. Rec. Stockman, Annu. Ed. (1951)61(52):153-154. Dec.28,1950. 49 D43 The Aberdeen Angus industry.
- 24537 RONSTADT, K. Western beef production. N. Y. Agr. Col. Farm Econ. 177:4586-4587. Nov.1950. 280.8 C812
- 24538 ROUY, H. Une mission d'études sur l'élevage et la viande aux Etats-Unis. Agr. Prat. 114:547-549. Dec.1950. 14 J82
- 24539 RUSSELL, J. S. The cattle feeder calls the turn. Iowa Farm & Home Register 1950:3-H-4H. Dec.3, 1950. 6 Io94 Beef cattle situation.
- 24540 SERRELL, E. W. Angus—from a dollar point of view. Rec. Stockman, Annu. Ed. (1951)61(52):163. Dec.28,1950. 49 D43
- 24541 SIMPSON, F. M. The industry—touching the lives of every man, woman and child. Rec. Stockman, Annu. Ed. (1951)61(52):62-63. Dec.28,1950. 49 D43
- 24542 SMITHFIELD 1950—a farming signpost? Farmers Wk. [London] 33(22):50-51,53,55. Dec.1,1950. 10 F2226 1, Targets and attainments, by Sir J. S. Watson; 2, Beef from the dairy herds, by F. H. Garner; 3, What the butcher-er looks for, by F. Gerrard. The livestock situation and meat production in Great Britain. Includes the rearing and feeding of dairy calves and meat quality requirements based on consumer preferences.
- 24543 SODRÉ, N. W. Livestock of the Rio Grande Plain. (In Portuguese.) Observador Econ. e Financ. 15 (178):40-49. Nov.1950. 280.8 Ob72 The pastoral industry.
- 24544 STEVENS, P. G. Beef. Lincoln Col. Rur. Educ. B. 5:158-170. Nov.1950. 109 C162 The industry in New Zealand.
- 24545 STEWART, F. M. Cattle now among our most important crops. South. Livestock J. 10(6):42-43. Jan. 1951. 43.8 F66A
- 24546 SULZBACHER, W. L. Facilities and equipment needed for a modern research laboratory. Reciprocal Meat Conf. Proc. 3:140-146. 1950. 50.9 R24
- 24547 TAGLE, E. C., HELMAN, M. B., and GUICHANDUT, J. J. Fases técnico-económicas de la producción de carne bovina argentina. I-II. Res 18:25445-25448,25483-25486. Nov.5-20,1950. 286.85 R31
- 24548 TOMHAVE, W. H. Analysis of meat courses now offered in our agricultural colleges. Reciprocal Meat Conf. Proc. 3:7-10. 1950. 50.9 R24
- 24549 TORTORELLI, N. A renaissance. (In Italian.) Humus 6(10):6-12. Oct.1950. 16 H88 Italian sheep and wool producing industry.
- 24550 VERSLUYS, J. O. N. Annotations to "Animal Husbandry on Timor." (In Dutch.) Hemera Zoa 57:572-589. Sept.1950. 41.8 V51 English summary. Cattle.
- 24551 WALTERS, L. E. The place of graduate students in a meat research program. Reciprocal Meat Conf. Proc. 3:121-125. 1950. 50.9 R24 Includes discussion.
- 24552 WARNER, K. F. Resident teaching in relation to the extension meat program. Reciprocal Meat Conf. Proc. 3:56-58. 1950. 50.9 R24
- 24553 WEBER, A. D. The contribution of meat research to a well-balanced animal husbandry program. Reciprocal Meat Conf. Proc. 3:193-201. 1950. 50.9 R24
- 24554 WELLINGTON, G. H. Supplementary courses recommended for students majoring in meats to qualify them for positions in the meat industry. Reciprocal Meat Conf. Proc. 3:35-43. 1950. 50.9 R24 Includes discussion.
- 24555 ZEPEDA, M., and BLAS HENRIQUEZ (HJO), J. Mejoramiento de nuestra industria ganadera. Cám. de Com. e Indus. de Tegucigalpa. B. 4(48):29-31. Nov.1950. 287 T23 Honduras.
- 24556 ZIEGLER, P. T. Meat courses designed for students in veterinary medicine and agricultural education. Reciprocal Meat Conf. Proc. 3:15-22. 1950. 50.9 R24 Includes discussion.



Analysis and Composition

- 24557 ANDERSON, P. A. Methods for determining the effect of freezing and storage on tenderness of beef. Reciprocal Meat Conf. Proc. 3:126-133. 1950. 50.9 R24 Includes discussion.
- 24558 DOHOEGNE, A. L'avenir du cuir à semelle; sur la perméabilité des cuirs à semelle de tannage lent et rapide. Rev. Tech. des Indus. du Cuir 42:185-189. Oct. 1950. 303.8 C89
- 24559 HENRICKSON, R. L. Methods used in determining the effect of freezing and storage on the keeping quality and nutritive value of pork. Reciprocal Meat Conf. Proc. 3:134-139. 1950. 50.9 R24 Includes discussion.
- 24560 O'FLAHERTY, F. Leather chemistry; a review of the outstanding developments of the year. Leather & Shoes 120(27):58,76-78. Dec.30,1950. 303.8 H53

Consumption and Utilization

- 24561 BRADY, D. E. A detailed analysis of factors to consider in organizing and executing a meat research project to determine the effect of quality and finish on the acceptability of beef. Reciprocal Meat Conf. Proc. 3:155-158. 1950. 50.9 R24
- 24562 COLE, J. W. The need for a study to determine the effect of quality and finish on the acceptability of beef. Reciprocal Meat Conf. Proc. 3:148-154. 1950. 50.9 R24 Includes discussion.
- 24563 HARRELL, R. Cows' ears and artists' brushes. West. Farm Life 53(Annu. Livestock Rev. 1951):23, 115,144. Jan.1,1951. 6 R153 Utilization of livestock products.
- 24564 LOUI, D. Housewife tells processors, producers what she likes. Prairie Farmer, Gen. Ed. 123:7. Jan.6,1951. 6 P883 Meat preferences.

Distribution, Marketing, and Transportation

- 24565 ALLEN, N. Self-service merchandising of meats. (Condensed.) Refrig. Engin. 58:1191-1193,1223. Dec.1950. 295.9 Am32J
- 24566 BARCELO, D. Compraventa de animales con vicios ocultos. Balearic Isl. Diputación Prov. B. de Agr. 73:1-2. Oct.1950. 15 B19
- 24567 BLAKLEY, A. A. Terminal market, where supply and demand meet. Rec. Stockman, Annu. Ed. (1951)61(52):134,137. Dec.28,1950. 49 D43
- 24568 FLETCHER, H. B. Operation air beef. Farmer & Stock-Breeder 64:3033. Nov.28,1950. 10 F228 Transportation of beef by air from Australia to Britain.
- 24569 GONZÁLEZ ARROYO, S. Mercado de ganado en Briviesca. Ganadería [Madrid] 8:530-535. Aug.1950. 49 G15
- 24570 KELLOGG, Q. A. Trail driving on the rails. Rec. Stockman, Annu. Ed. (1951)61(52):100,103. Dec.28, 1950. 49 D43 Livestock transportation.
- 24571 LINON, G. Litige relatif à la vente d'une vache laitière réagissante à l'épreuve de la tuberculine. Rev. de Méd. Vét. [Toulouse] 101:252-258. May 1950. 41.8 R32 France.
- 24572 LIVESTOCK AND HOME-PRODUCED MEAT POLICY COMMITTEE. Marketing of fat stock; deficiency payment system for guarantee of price. London, 1950. 10 n. 284.340 L75
- 24573 MACFARLANE, J. C. Shipment of farm animals. Our Dumb Anim. 83(12):14. Dec.1950. 48.8 Ou7
- 24574 MEYER, T. O. Carcass bruises inflicted in the shipment and handling of cattle prior to slaughter. Wash. Agr. Expt. Sta. C. 114,3 p. Sept.1950. 100 W27S
- 24575 RANDELL, C. G. Livestock-wool co-ops blanket most of nation. News Farmer Coop. 17(10):7-8, 27. Jan.1951. 166.2 N47
- 24576 RICH, R. J. Let's quit foolin' and sell lamb. Sheep & Goat Raiser 31(3):56. Dec.1950. 45.8 Sh3
- 24577 ROBERTS, A. A. The art of selling wool. Wool 1(3):29,31. 1950/51. 45.8 W887
- 24578 SHAPLAND, G. F. D. The revised auction rules. Guernsey Breeders' J. [London] (n.s.) 4(4):60. Winter 1950. 43.8 G932 Cattle.
- 24579 SIGGEIRSSON, E. I. Wool on the nome market. (In Icelandic.) Freyr 45:272-273. Oct.1950. 11 F89

- 24580 SINCLAIR, F. H. Stockmen tell story to public; public and press response good. West. Farm Life 53 (Annu. Livestock Rev. 1951):134,137,140. Jan.1,1951. 6 R153 Plans for public relations activities by the American National Live Stock Association.
- 24581 STOUT, L. Calgary market growing. Canad. Cattleman 13(12):24. Dec.1950. 49 C16 Beef cattle.
- 24582 SURRACO, A. M., LUSIARDO, M. J., and LOMBARDO, R. A. Mejoramiento de la producción del ganado bovino en el Uruguay, mediante normas adecuadas de comercialización. Uruguay. Dir. de Ganad. B. Mens. 31:259-267. Apr./June 1950. 41.9 Ur8
- 24583 SYDOW, C. VON. Marketing through ANSA [Scandinavian Fur Auctions]. (In Swedish.) Vara Pålshdjur 1950:293-296. Nov.15,1950. 410 V42
- 24584 TEITELMAN, S. Self-service meat retailing in 1950. J. Mktg. 15:307-318. Jan.1951. 280.38 J82
- 24585 TUCKER, R. Where does the livestock auction market fit in? Rec. Stockman, Annu. Ed. (1951)61(52): 70-71. Dec.28,1950. 49 D43
- 24586 WUNDER, C. Terminal markets are the stockman's working partner for profit. Farmer-Stockman 53 (12):12,46. Dec.1950. 6 Ok45

Grading, Inspection, Standardization, and Quality

- 24587 AIROLDI, G., MANTOVANI, G., and ROGNA, M. Determination of muscular pH applied in meat inspection. (In Italian.) Prog. Vet. 5:629-630. Nov.15,1950. 41.8 P942
- 24588 BUENO, P. Food poisoning by products of animal origin. (In Portuguese.) Biológico 16:124-127. June 1950. 442.8 B529
- 24589 BUSS, W. Bemerkenswerte Fälle aus der bakteriologischen fleischuntersuchung des Jahres 1949. Lebensmitteltierarzt 1:142-143. Sept.1950. 41.8 L49 Germany.
- 24590 CENTRICH SUREDA, D. J. La inspección de las carnes congeladas. Rev. de Sanidad Vet. 5:698-706. Oct.15,1950. 41.8 R3222
- 24591 CIARROCCHI, E. The "marrow test" in meat inspection. (In Italian.) Prog. Vet. 5:478-480. Aug.15/Sept.1,1950. 41.8 P942
- 24592 CIARROCCHI, E. Reporting the sale of sick animals - and other matters. (In Italian.) Prog. Vet. 5: 489-490. Sept.15,1950. 41.8 P942
- 24593 CLARK, F. A. Meat inspection. J. Milk & Food Technol. 13:344-349. Nov./Dec.1950. 44.8 J824
- 24594 FLINT, W. E. Visitors see beef grading practices in person at Bell. N. Mex. Stockman 15(11): 12-B. Nov.1950. 49 N462
- 24595 GRANT, R. The importance of quality standards in meat production. Past. Rev. 60:1071-1072. Oct. 16,1950. 23 Au75
- 24596 HEMMES, G. D. Transmission of paratyphus through head cheese and raw sausages. (In Dutch.) Tijdschr. v. Diergeneesk. 75:860-869. Nov.1,1950. 41.8 T431
- 24597 HOOGLAND, D. M. Inspection of retail selling. (In Dutch.) Tijdschr. v. Diergeneesk. 75:827-831. Oct.15,1950. 41.8 T431 Of meat.
- 24598 KETZ, A. Kritische betrachtung zur fleisch-beschaulichen beurteilung des herzkloppenrotlaufs. Lebensmitteltierarzt 1:129-134. Ref. Sept.1950. 41.8 L49
- 24599 KUPPELMAYR. Inverkehrbringen des fleisches rotlaufkranker schweine. Berlin. u. Münch. Tierärztl. Wechnscr. 1950:208-209. Oct.1950. 41.8 B45
- 24600 LARUE, W. C. The meat in the pig. Prog. Farmer, Tex. Ed. 65(12):24,84. Dec.1950. 6 T311 Carcass grading.
- 24601 LINON, G. Sanctions pénales de l'estampillage frauduleux et de l'expédition d'une viande impropre à la consommation. Rev. de Méd. Vét. [Toulouse] 101:311-312. June 1950. 41.8 R32
- 24602 LONGWILL, A. North Island porker and baconer competitions, 1950. New Zeal. J. Agr. 81:423-426. Nov.1950. 23 N48J Carcass-quality.
- 24603 MEYER, F. Umfangreiche bakterielle lebensmittelvergiftung nach genuss von weicher mettwurst, verursacht durch Breslau-bakterien-träger. Lebensmitteltierarzt 1:116-118. Aug.1950. 41.8 L49 Salmonella typhimurium.



24604 NIEDEREHE, H. Ist der fleischbeschauer noch zuständig bei der beurteilung tuberkulöser schlacht-tiere? *Lebensmitteltierarzt* 1:140-142. Ref. Sept.1950. 41.8 L49

Germany.

24605 OPPERMAN, M. Bemerkungen zum stand der freibankflisch-konservierung. *Lebensmittel-tierarzt* 1:102-105. July 1950. 41.8 L49

Germany.

24606 PUSCH, I. Vergleichende untersuchungen zur bestimmung der wässrigkeit und des ausblutungsgrades in der fleischuntersuchung. *Lebensmitteltierarzt* 1:105-109. Ref. July 1950. 41.8 L49

Germany.

24607 REED, A. J. Beef-grading demonstrations popular with Nevada stockmen. *West. Farm Life* 53(Annu. Livestock Rev. 1951):202,204. Jan.1,1951. 6 R153

24608 ROSSI, R. P. The skins of animals that have died in the hands of breeders. (In Italian.) *Prog. Vet.* 5:514-515. Sept.15,1950. 41.8 P942

Regulation and inspection; utilization.

24609 SHAW, S. T. Revised beef-grading system helps producer and consumer. *West. Farm Life* 53(Annu. Livestock Rev. 1951):200-201. Jan.1,1951. 6 R153

24610 TAYLOR, M. H. Livestock scales—maintenance, manipulation pose problems in Utah. *West. Live-stock J.* 29(6):118-119,121-123,125. Dec.15,1950. 6 F2278

24611 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Know your new beef grades, by H. E. Reed, F. J. Beard, and K. Gapen. Washington, 1950. 4 p. 1.914 R2R11

#### Packing and Packaging

24612 STATELER, E. S. Vacuum bag it—for better quality. *Food Indus.* 22:2045-2046. Dec.1950. 389.8 F737

Bacon.

#### Prices, Price Control, and Rationing

24613 FRENCH, H. W. Livestock price basis appears sound; hog men bemoan cattle-hog differences. *Amer. Cattle Prod.* 32(7):20,22,62-64. Dec.1950. 49 P94

24614 PEXTON, L. M. A vital livestock question for the producer. *Rec. Stockman, Annu. Ed.* (1951)61(52):54-55. Dec.28,1950. 49 D43

Prices.

24615 STREET, A. G. Everybody's doing it. *Farm-ers Wk. [London]* 33(23):51. Dec.8,1950. 10 F2226

Questions the reasons for high prices of pedigree dairy cattle.

#### Processing and Storage

24616 BRIWA, K. E. Curing meat for home use. *Maine. Agr. Col. Ext. B.* 402,10 p. Aug.1950. 275.29 M281B

24617 CARLEVARO CASTELLÁ, C. H. Carnes congeladas destinadas a la alimentación humana. *Uru-guay. Dir. de Ganad. B. Mens.* 31:268-274. Apr./June 1950. 41.9 Ur8

24618 CHEN, P. S. Syntans and newer tanning meth-ods. *Leather Mfr.* 61(12):7-8. (Cont.) Dec.1950. 303.8 L484

24619 CORDOVA, J. M. Memoria sobre curtiduría. *U. Nac. Mayor de San Marcos. Facul. de Quím. Rev.* 2 (3/4):81-98. Third/Fourth Q.1950. 385 Un3

24620 DAWSON, W. O. Synthetic tanning materials and tannages. *Leather Mfr.* 61(12):9-10. Dec.1950. 303.8 L484

24621 DEBEUKELAER, F. L. Curing hides and skins in saturated brine. *Amer. Meat Inst. Found. B.* 9,5 p. Dec.1950. 50.9 Am322

24622 DUCK, R. W. Pork products for the table. *Rural New-Yorker* 100:794,810. Nov.13,1950. 6 R88

Chiefly curing.

24623 HALL, C. Tanning machinery in practice. II. Working tools for processing skins. *Leather Trades' Rev.* 98:525-528. Dec.20,1950. 303.8 L48

24624 HALL-GREEN, C. E. The care and curing of hides and skins. I. Transkelan Ter. *Agr. Dept. Umcebisli Womlimi Nomfuyi* 27(4):17-18. Nov.1950. 24 T684

24625 HOUNIE, E. Meat preservation by antibiotics. (Abs.) *Food Mfr.* 25:508-509. Dec.1,1950. 389.8 F736

24626 MATHOT, H. J. Enlarging the meat conserving industry in the smaller Sunda Islands. (In Dutch.) *Hemera Zoa* 57:483-501. Aug.1950. 41.8 V51

English summary.

24627 MELCHERT, P. Improved meat smoking re-ported with propane. *Food Indus.* 22:2087. Dec.1950. 389.8 F737

24628 MINNIGERODE, H. G. Tanganyika's new pack-ing house. *Foreign Agr.* 14:274-275. Dec.1950. 1.9 Ec7For

24629 O'FLAHERTY, F., and MARSHALL, F. F. Some notes on a long time oak-hemlock tannage versus a present day sole leather tannage. *Amer. Leather Chem. Assoc. J.* 45:778-789. Dec.1950. 303.9 Am32

24630 OTTO, G. Avantages et desavantages des sels de chrome masques pour le tannage du box et du cuir velours. *Rev. Tech. des Indus. du Cuir* 42:181-186. Ref. Nov.15,1950. 303.8 C89

24631 PROCTOR, C. M. Domestic tanning shortages. *Leather & Shoes* 121(2):10. Jan.13,1951. 303.8 H53

Tanning materials.

24632 RAJA, S. Leather and tanning in other coun-tries. *Tanner* 5(6):17-19. (To be cont.) Nov.1950. 303.8 T15

24633 RAO, P. H. East Indian tannage—a study. *Tanner* 5(6):15-16. Nov.1950. 303.8 T15

24634 SAINT-PRIEST, P. Tannage sans tanin. *Rev. Tech. des Indus. du Cuir* 42:187-196. Nov.15,1950. 303.8 C89

24635 SELLARDS, G. Curing ham—making sausage. *Prog. Farmer, Tex. Ed.* 65(12):36. Dec.1950. 6 T311

24636 SHUTTLEWORTH, S. G. The theory of chrome tanning. *Soc. Leather Trades' Chem. J.* 34:410-437. Ref. Nov.1950. 303.9 Sol2

24637 SIDWELL, C. G., and others. Dry-cured ba-con; the use of pregelatinized starch to improve uniformi-ty of cure. *Amer. Meat Inst. Found. B.* 8,17 p. Sept. 1950. 50.9 Am322

F. C. Vilbrans, D. A. Greenwood, V. W. Swartz, and C. F. Niven, Jr., joint authors.

24638 SÖRMO, I. Skinning of coypus. (In Norwegian.) *Norsk Pelsdyrbt.* 24:347. Nov.5,1950. 412.628 N812

24639 WELLINGTON, G. H., and MILLER, J. I. The value of papain for increasing lard yield and for improv-ing tenderness of cow beef. (Abs.) *J. Anim. Sci.* 9:645. Nov.1950. 49 J82

24640 ZEDET, M. Extraction des huiles solubles contenues dans les pyroligneux de bois durs. (Abs.) *Chim. & Indus.* 64(3,spec.no.):105. Sept.1950. 383 C42

Used in smoking fish and meat.

#### Statistics

24641 ANADÓN PINTÓ, R. Plan de ordenación económico-social; ganadería provincial y sus posibilida-des de mejora. *Lérida Ganad. (ser.3)*115:90-103. May 1950. 41.8 L56

Statistics.

24642 FERNON, B. J. Sheep in the United States. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 3:159-165. Oct.1950. 281.9 Au73

Statistics.

24643 HELTEMES, C. J., and ORVOLD, L. W. State livestock population drops. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:87-88. Nov./Dec.1950. 100 N813B

24644 NYSTROM, P. E., and MEYER, A. R. Econo-mic importance of eastern livestock; production, con-sumption, value. *Md. Agr. Col. Ext. Misc. P.* 124,21 p. May 1950. 275.29 M36Mis

24645 U. S. BUR. OF AGRICULTURAL ECONOMICS. Livestock on farms and ranches on January 1; number, value, and classes, 1920-39, by States. *U. S. D. A. Statis. B.* 88,103 p. 1950. 1 Ag84St

24646 U. S. BUR. OF AGRICULTURAL ECONOMICS. Sheep and lambs on feed, January 1,1951. Washington, 1951. 2 p. 1.941 H8Sh32

#### OILS AND OILSEEDS

24647 AKERS, H. A. Peanut growers approve marketing quotas. *Peanut J. & Nut World* 30(3):23. Jan. 1951. 77.8 P313

24648 ANDERSEN, A. J. C. Evaluation of fats and oils for edible purposes. *Dairy Indus.* 15:1249-1254. Dec 1950. 44.8 D1427



- 24649 ANDRE, E., and CARBOUERES, M. Action de la chaleur sèche et de la chaleur humide sur les résidus de pression des graines de lin et des graines de colza. Acad. d'Agr. de France. Compt. Rend. 36:570-573. Oct.11/18,1950. 14 P215Bc
- 24650 ANSELM, S., and CESARI, A. Research on sesame oil in margarine and similar fats; addition of artificial coloring materials. (In Italian.) (Abs.) Chlm. & Indus. 64(3,spec.no.):116-117. Sept.1950. 383 C42
- 24651 BALDACCI, M., and FISCHETTI, F. Herbaceous oil crops in Italy in the 1949 season. (In Italian.) Olearia 4:371-376. Sept./Oct.1950. 307.8 OL2  
English summary.
- 24652 BAUER, S. T. Chemical characteristics of soybean oil. In Markley, K. S., ed. Soybeans and soybean products, v.1, p.213-245. Ref. N. Y., Interscience, 1950. 60.3 M34
- 24653 BHARGAVA, K. P. A serious problem before the mustard oil industry. Oils & Oilseeds J. 3(3):12-15. Sept.1950. 307.8 O154  
India.
- 24654 BOURLET, G. L'achèvement des huileries d'Acobo, Avrankou et Dibombarti. Oléagineux 5:617-622. Nov.1950. 77.8 OL2
- 24655 BREAKWELL, E. J. Australian search for vegetable oils. Milk Bd. J. 1:534,536-537. Oct.16,1950. 44.8 M5934
- 24656 BURTIS, E. L. The outlook for fats, oils, and oilseeds in 1950-51. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2B95  
Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.
- 24657 BURTIS, E. L. World soybean production and trade. In Markley, K. S., ed. Soybeans and soybean products, v.1, p.61-108. Ref. N. Y., Interscience, 1950. 60.3 M34
- 24658 CASARES BESGANS, R. Turbios de aceite. Lérica Ganad. (ser.3)116:122. June 1950. 41.8 L56
- 24659 CHIA, J. K. Investigación bromatológica y tentativa de legislación bromatológica sobre el siyau. Cong. Peruano de Quim. Actas y Trab. 1949(2):506-514. 385 C763  
Soy sauce analysis.
- 24660 CIRCLE, S. J. Proteins and other nitrogenous constituents. In Markley, K. S., ed. Soybeans and soybean products, v.1, p.275-370. Ref. N. Y., Interscience, 1950. 60.3 M34
- 24661 COFIELD, E. P., JR. Solvent extraction of oilseeds. Chem. Engin. 58:127-140. Ref. Jan.1951. 381 EL2
- 24662 COSGROVE, D. J., and MAJOR, F. Oil of Lippia carvioides from Kenya. Colon. Plant & Anim. Prod. 1:56-62. Jan./Mar.1950. 472 C71
- 24663 CROSSLEY, A., and HILDITCH, T. P. The component acids of some authentic and commercial Stillingia oils. J. Sci. Food & Agr. 1:292-300. Oct.1950. 382 S012
- 24664 DAUBERT, B. F. Chemical composition of soybean oil. In Markley, K. S., ed. Soybeans and soybean products, v.1, p.157-211. Ref. N. Y., Interscience, 1950. 60.3 M34
- 24665 DAUBERT, B. F. Other constituents of the soybean. In Markley, K. S., ed. Soybeans and soybean products, v.1, p.371-381. Ref. N. Y., Interscience, 1950. 60.3 M34
- 24666 DECOSSAS, K. M., DECKBAR, F. A., JR., and HECKER, J. L. Densities and gravities of cottonseed and peanut oil miscellanes in English units. U. S. Bur. Agr. & Indus. Chem. AIC-292,8 p. Nov.1950. 1.932 A2Ag82
- 24667 DEUTSCHE GESELLSCHAFT FÜR FETTWISSENSCHAFT. Vortragstagung 1950. Fette u. Seifen 52:649-664. Nov.1950. 384 C422
- 24668 DICKINSON, R. The virtues of the sunflower. Veg. Messenger & Health Rev. (ser.8)47:286-287. Oct.1950. 389.8 V522  
Uses.
- 24669 FEHR, F. & CO. Annual review for 1949 of oilseeds, oils, oilcakes and other commodities. London, 1950. 85 p. 307 F32
- 24670 FERRARA, A. French supplies of fats. (In Italian.) Olearia 4:407-427. Nov./Dec.1950. 307.8 OL2  
English summary.
- 24671 FERRARI, P. V. Innovations in an ancient industry; oil extraction under presses. (In Italian.) Terra e Sole 97:292-294. Sept.1950. 16 T273  
Olive oil.
- 24672 FESNEAU, M. Présence du furfural dans l'huile essentielle d'aspic de Provence. Indus. de la Parfumerie 5:504. Nov.1950. 308.8 In2
- 24673 FILHES, A. Influence des facteurs physico-chimiques dans l'extraction. Oléagineux 5:705-709. Ref. Dec.1950. 77.8 OL2  
Vegetable oils.
- 24674 FOXA, J. DE. De XIII Congreso Internacional de Oleicultura. Cooperación [Madrid] 104:9. Oct.1950. 280.28 C7875
- 24675 FRANCE. DIRECTION DE LA DOCUMENTATION. La politique coloniale de la Grande-Bretagne. France. Dir. de la Doc. Notes et Etudes Doc. 1411,18 p. Dec.12,1950. 280.9 F843  
Includes the Groundnut Plan.
- 24676 FREYER, E. Grading and evaluation of soybeans and derived products. In Markley, K. S., ed. Soybeans and soybean products, v.1, p.425-454. Ref. N. Y., Interscience, 1950. 60.3 M34
- 24677 GAROGLIO, P. G. Argentine experiments for extracting olive oil by the No. 3 acuarone method. (In Italian.) Olearia 4:361-366. Sept./Oct.1950. 307.8 OL2  
English summary.
- 24678 GAROGLIO, P. G. Tecnología de los aceites vegetales, con especial referencia al aceite de oliva, v. 1. Mendoza, Argentina, Universidad Nacional de Cuyo, 1950. 1284 p. 307 G19
- 24679 GOGUADZE, V. P., KHECHINASHVILI, E. P., and TARENKO, M. I. Analysis of tea oil. (In Russian.) Zhur. Analit. Khim. 5:308-314. Ref. Oct.1950. 385 Z65
- 24680 GOSS, W. H. Factors affecting the choice of a soybean processing method. Soybean Digest 11(2):16-20. Dec.1950. 60.38 S09
- 24681 GT. BRIT. COMMONWEALTH ECONOMIC COMMITTEE. INTELLIGENCE BR. Vegetable oils and oilseeds, a summary. London, 1950. 118 p. 280.39 G794C  
Statistics.
- 24682 HÄRDTEL, H. Die aufbereitung der spitzklettfrüchte [Xanthium spinosum?] zu öl und eiweiss. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:158. Nov.1950. 18 D4822
- 24683 HOLMAN, L. E. Handling and storage of soybeans. In Markley, K. S., ed. Soybeans and soybean products, v.1, p.455-482. N. Y., Interscience, 1950. 60.3 M34
- 24684 HOLMES, O. Peoples, politics and peanuts in Eastern Africa. Foreign Policy Rpt. 26:153-163. Dec.1,1950. 280.9 F76R
- 24685 INDIA. MINISTRY OF AGRICULTURE. DIRECTORATE OF MARKETING AND INSPECTION. Report on the marketing of rapeseed and mustard in India. India. Agr. Mktg. Adv. Mktg. Ser. 60,144 p. 1950. 280.39 In2
- 24686 JEFFERSON, M. E. Physical properties of soybean oil. In Markley, K. S., ed. Soybeans and soybean products, v.1, p.247-273. Ref. N. Y., Interscience, 1950. 60.3 M34
- 24687 KANE, J. G. The need for a central experimental station for the oil industry. Oils & Oilseeds J. 3(3):6-7. Sept.1950. 307.8 O154  
India.
- 24688 KELKAR, G. M. Milk from groundnut. Sci. & Cult. 16:16-18. July 1950. 475 Sci24  
India.
- 24689 KOECK, W. Stand und probleme der industriellen fettversorgung. Fette u. Seifen 52:704-706. Nov. 1950. 384 C422  
Germany.
- 24690 KORDE, W. D. Vanaspathi. Oils & Oilseeds J. 3(4):10-11. Oct.1950. 307.8 O154
- 24691 LANGHURST, L. F. Mechanical processing of soybeans. In Markley, K. S., ed. Soybeans and soybean products, v.1, p.503-540. N. Y., Interscience, 1950. 60.3 M34
- 24692 LECOMTE, J. Les possibilités offertes par le spectre infrarouge pour l'étude des constituants des corps gras. Oléagineux 5:685-688. Dec.1950. 77.8 OL2
- 24693 LEMON, H. W., KNAPP, R. M., and ALLMAN, A. H. The effect of citric acid upon the oxidation of peanut oil and of the methyl esters derived from peanut oil. Canad. J. Res. Sect. F, Technol. 28:453-460. Ref. Dec. 1950. 470 C16F
- 24694 LEPIDI, J. L'huile d'olive dans le monde. B. Econ. et Social de la Tunisie 46:16-19. Nov.1950. 280.8 B874  
Statistics.



- 24695 LEVER BROTHERS. ECONOMICS AND STATISTICS DEPT. Oils and fats statistics. Roy. Statist. Soc. J. Ser. A, Gen. 113:376-395. Ref. 1950. 251 R81J  
Unilever, cooperating author.  
Sources.
- 24696 LIPS, H. J. Antioxidant properties of an ethylene dichloride extract of cottonseed meal. Canad. J. Res. Sect. F, Technol. 28:451-452. Nov. 1950. 470 C16F
- 24697 LOW, I., and ARGOUD, S. Chromatographie du carotène de l'huile de palme. Oleagineux 5:629-633. Nov. 1950. 77.8 OL2
- 24698 MANYI, MRS. N. The importance of the soya bean. Transkeian Ter. Agr. Dept. Umceblisi Womlimi Nomfuyi 27(3):33-34. Aug. 1950. 24 T684  
Union of South Africa.
- 24699 MATHEW, P. C. Copra crushing industry of Malabar. Oils & Oilseeds J. 3(4):7,18. Oct. 1950. 307.8 Oi54
- 24700 MAYO MUSSO, O. Indice de Bellier en el control de los aceites. Cong. Peruano de Quim. Actas y Trab. 1949(2):525-529. 385 C763
- 24701 MENSIER, P. H. L'état actuel du développement de la production des oléagineux en Afrique noire. Rev. Internat. des Prod. Colon. 25:232-235. Dec. 1950. 286.8 R326
- 24702 MILNER, M. Biological processes in stored soybeans. In Markley, K. S., ed. Soybeans and soybean products, v.1, p.483-501. Ref. N. Y., Interscience, 1950. 60.3 M34
- 24703 NEGRE, E. La conservation de l'huile d'olive. Feuille d'Inform. Oleicoles 20:533-537. (Cont.) July/Sept. 1950. 80 F432
- 24704 OGILVIE, J. C. Oil and feed end products of vast S-K plant. Amer. Miller & Processor 79:72,116. Jan. 1951. 298.8 Am32  
Linseed oil extraction equipment.
- 24705 OLIVARES, J. En torno al XIII Congreso Internacional de Oleicultura. Cooperación [Madrid] 104: 10-11. Oct. 1950. 280.28 C7875
- 24706 OLIVEIRA, J. V. DE. Let us plant olive trees. (In Portuguese.) Selec. Agr. 5(54):43-44. Oct. 1950. 9.2 Se4  
Brazil.
- 24707 PAARLBERG, D. Marketing soybeans. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1950:3, 6-7. Nov. 27, 1950. 275.29 In2Em
- 24708 PALENI, A. The place taken by esterification in the refining of vegetable oils and researches in the past 20 years. (In Italian.) (Abs.) Chim. & Indus. 64(3, spec.no.):117-118. Sept. 1950. 383 C42
- 24709 PALENI, A. Refining of vegetable oils and pretreatments. (In Italian.) (Abs.) Chim. & Indus. 64(3, spec.no.):117. Ref. Sept. 1950. 383 C42
- 24710 PARISOT, A. Parallèles entre la structure des corps gras et celle des textiles synthétiques. Oleagineux 5:639-643. (To be cont.) Nov. 1950. 77.8 OL2
- 24711 PATINO, V. M. Esquema sobre el desarrollo de la industria de aceites vegetales en el Occidente Colombiano. Rev. Agr. y Ganad. 12(128):2-8. Sept. 1950. 9.4 R327
- 24712 PEREZ, G. R. La industria del aceite de ricino. Agr. Venezol. 15(145):27-32. Aug. 1950. 9.95 Ag8
- 24713 PEREZ VALVERDE, I., and GARCÍA GUILLENTA, M. J. Agentes químicos y físicos que alteran a los aceites y grasas. Cong. Peruano de Quim. Actas y Trab. 1949(2):603. 385 C763
- 24714 PERSELL, R. M., POLLARD, E. F., and GASTROCK, E. A. Problems and progress in the solvent extraction of cottonseed. Cotton Gin & Oil Mill Press 51(26):9-11, 24-25, 30-32. Ref. Dec. 23, 1950. 304.8 C822
- 24715 POERCK, R. A. DE. Contributions à l'étude du palmier à huile africain [Elaeis guineensis Jacq.]. Oleagineux 5:623-628. Ref. Nov. 1950. 77.8 OL2
- 24716 RADET, E. La courbe de formation de la matière grasse dans le colza. Sol 1950:206-208. 14 So4  
Includes fat content at various harvesting periods.
- 24717 RAO, T. V. Importance of coconut oil industry in India. Oils & Oilseeds J. 3(3):8-11. Sept. 1950. 307.8 Oi54
- 24718 REA, H. E., JR., and WAMBLE, A. C. The effect of rolling cottonseed meats on oil extraction. Tex. Engin. Expt. Sta. Res. Rpt. 16, 17 p. Ref. Sept. 1950. 290.9 T31R
- 24719 RIGAMONTI, R., and DUZZI, A. Ternary systems among oleic acid, trioleine, and alcohol; application to the disacidifying of vegetable oils with solvents. (In Italian.) (Abs.) Chim. & Indus. 64(3, spec.no.):118. Sept. 1950. 383 C42
- 24720 RISUENO, A. Nuevo sistema de elaboración del aceite de oliva. Siembra [Madrid] 6(10):10-12. Oct. 1950. 15 Si1  
Equipment.
- 24721 ROBERTSON, T. C. A South African looks at Groundnut Scheme. Veldtrust 11(8):12-15, 31. Aug. 1950. 56.8 V54
- 24722 SALOMONE, G. New research work on grape-seed oils. (In Italian.) Olearia 4:367-370. Sept./Oct. 1950. 307.8 OL2  
English summary.
- 24723 SCHAR, A. Zur technik der gewinnung von traubenkernöl in der Schweiz. Landwirt. Jahrb. der Schweiz. 64:715-728. 1950. 17 L23
- 24724 SCHIMMEL AND CO. 1947-48 report on essential oils, aromatic chemicals and related materials. New York, 1951. 125 p. 308.9 Sch3
- 24725 SCHMILL, M. M. New method for pickling black and green olives and new implement for gathering the olives. (In Italian.) Olearia 4:428-429. Nov./Dec. 1950. 307.8 OL2  
English summary.
- 24726 SEALS, W. F. 1951 can be "the big one" for peanuts—"here's how." Peanut J. & Nut World 30(3):17-18. Jan. 1951. 77.8 P313
- 24727 SEVENSTER, J. Production and consumption of food fats in the world. (In Dutch.) Landbouwk. Tijdschr. [Wageningen] 62:788-794. Oct. 1950. 105.2 Or3
- 24728 THEY, R. Contribution à l'étude du contrat de M'gharsa et de son application. Feuille d'Inform. Oleicoles 20:528-532. (Cont.) July/Sept. 1950. 80 F432
- 24729 TINDALL, C. Upstart crop. Mo. Rur. 91(21): 6-7. Nov. 11, 1950. 6 R8891  
The soybean industry in Missouri.
- 24730 U. S. PRODUCTION AND MARKETING ADMIN. Peanuts: national marketing quotas & acreage allotments [1941-51]. Washington, 1950. 1 p. 1.956 F26P312
- 24731 VEEN, A. G. VAN, and SCHAEFER, G. The influence of the tempeh fungus on the soya bean. Doc. Neerland. et Indonesia de Morbis Trop. 2:270-281. Ref. Sept. 1950. 448.8 D65  
Tempeh kedele, a popular food in Indonesia, prepared by fermenting soy beans with Rhizopus oryzae.
- 24732 VIDHYARTHI, S. D. Solvent extraction of oils and its applications. Oils & Oilseeds J. 3(4):8-9. Oct. 1950. 307.8 Oi54
- 24733 VILLAGÓMEZ, F. Análisis bromatológico de la manteca de manf. Cong. Peruano de Quim. Actas y Trab. 1949(2):554-557. 385 C763
- 24734 VINCENT, G. Notre consommation de graisses alimentaires. Rev. de l'Agr. 3:1058-1067. Oct. 1950. 13 R322  
English summary.  
Belgium.
- 24735 WALSH, R. M. Oil seeds in Western Europe. Mktg. Activ. 13(11):7-10. Nov. 1950. 1.942 A8M34  
Supply and demand situation.
- 24736 WILBAUX, R., and FRANKIGNOULLE, A. S. Essais d'extraction semi-industrielle d'huile d'Aleurites montana au Kivu. B. Agr. du Congo Belge 41:993-1002. Dec. 1950. 24 K83
- 24737 WITTKA, F. Identification of olive oils extracted from olive-residue according to the solvents used. (In Italian.) Olearia 4:405-406. Nov./Dec. 1950. 307.8 OL2  
English summary.

## POULTRY AND POULTRY PRODUCTS

- 24738 AUSTRALIA. EGG BOARD. Third annual report for year 1949-50. Sydney, 1950. 22 p. 281.3479 Au72  
Contains statistics on egg utilization and trade.  
Also in Poultry Farmer [Sydney] 18(17):11-26. Oct. 21, 1950. 280.28 Or32
- 24739 BEANBLOSSOM, F. Z. How Texas went about developing a graded egg program. (Condensed.) U. S. Egg & Poultry Mag. 57:12, 22, 24-25. Jan. 1951. 286.85 Eg3
- 24740 BEESON, F. W. Canadian Poultry Council tackles industry's problems, gets Newcastle cleared up. Canada Poultryman 37(12):15, 17-21. Dec. 1950. 47.8 C166



- 24741 BEST, K., and HILLYER, K. Dollars from pullet flocks. *Country Gent.* 121:23,54-57. Jan.1951. 6 C833  
Poultry industry, Marion County, Kentucky.
- 24742 BOBBY, F. C. Surplus of eggs may be countered by reducing production costs. *New Zeal. J. Agr.* 81:357,359. Oct.1950. 23 N48J
- 24743 BRAHE-PEDERSEN, O. Measures to improve the profitability of the poultry industry in America. (In Danish.) *Dansk Landbr.* 69:631-633. (To be cont.) Dec.14,1950. 280.28 V91
- 24744 CALVILLE, R. Comment réussir la conservation frigorifique des œufs. *Rev. Prat. du Froid* 6(3):16-18. Dec.1950. 295.8 R323
- 24745 CARPENTER, R. S. U. S. grades for eggs and poultry. *J. Home Econ.* 42:808-810. Dec.1950. 321.8 J82
- 24746 CASA-PACHECO, MARQUÉS DE. De avicultura: ligeros comentarios. *Badajoz. Diputación Prov. B. de Inform. Agr. y Ganad.* 8(80):11-12. Sept.1950. 15 B14  
The industry in Spain.
- 24747 DARRAH, L. B. Outlook for 1951. *Everybodys Poultry Mag.* 56:12,36-37. Jan.1951. 47.8 F213P  
Poultry and eggs.
- 24748 DAVEY, A. D. Keeping the poultry business out of the red. *Canada Poultryman* 37(12):5,25-27. Dec. 1950. 47.8 C166
- 24749 DAVIS, J. E. Egg merchandising tough for Florida. *Fla. Poultry & Dairy J.* 16(12):5,8. Dec.1950. 47.8 F66
- 24750 DOSSIN, C. O. Guard winter quality. *N. H. Breeder* 13(4):11-13. Dec.1950/Feb.1951. 47.8 N45  
Eggs.
- 24751 ECHEVERRÍA, J. La avicultura en el Uruguay. *Asoc. Rur. del Uruguay. Rev.* 77(11):2-16. Nov.1950. 9.9 As5
- 24752 EISCHER, R. Eine neuartige 360er eierverpackung. *Deut. Wirtgeflügelzucht.* 3:6-7. Oct.7,1950. 47.8 D483
- 24753 FLOREA, J. H. How you can help to sell eggs. *Poultry Tribune* 57:38,40. Jan.1951. 47.8 P8642  
Advertising.
- 24754 FRONDA, F. M., and VARONA, A. P. Raise chickens for profit. *Agr. & Indus. Life* 12(11):3,24. Nov. 1950. 25 Ag8  
Philippine Republic.
- 24755 GONZÁLEZ, E. J. Huevos para el consumo. *Pampa Argentina* 23(276):6,32. Nov.1950. 9 P19  
Methods of obtaining improved quality eggs.
- 24756 GORDEUK, A. Unique selling idea is working out. *Broiler Growing* 2:17,32. Jan.1951. 47.8 B782  
Publicity for Northwesters.
- 24757 HAYES, J. B. Poultrymen find that quality pays. *Dairyland News* 21:2. Jan.1951. 280.28 W752  
Egg quality and poultry disease control.
- 24758 HESTER, O. C. Stores pay lowest egg prices but are a major outlet. *Farm Life Mag.* 1(2):4. Sept. 1950. 6 F22126
- 24759 HIRSCH, A. 'Build-up breakfast' theme to feature egg sales campaign. *Poultry Supply Dealer* 27(12):12-13,30. Dec.1950. 47.8 B11
- 24760 HOFFMAN, E. Can hatcherymen serve two masters? *N. H. Breeder* 13(4):9-10. Dec.1950/Feb.1951. 47.8 N45
- 24761 HUMOLLER, H. F. Egg prices in Western Germany stabilized by import program. *Canad. Poultry Rev.* 75:33-34. Jan.1951. 47.8 C16
- 24762 JENSEN, L. S. The quality train. *Washcoegg* 28(4):11,29. Sept.1950. 47.8 W27  
Eggs.
- 24763 JUHRE, F. Voraussetzungen zur leistungsteigerung in der bauerlichen geflügelhaltung. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:211-214. Dec.1950. 18 D4822  
Russian Zone of Germany.
- 24764 KAHLBERG, O. J., LALLY, M. M., and GORMAN, J. M. What's the best way to sample frozen eggs? II. U. S. Egg & Poultry Mag. 57:14-15,25. Jan. 1951. 286.85 Eg3
- 24765 KANTNER, A. H. Poultry prices on the New York City market, 1875-1949. *N. Y. Agr. Col. A. E.* 748, 27 p. Aug.1950. 281.9 C81
- 24766 KANTNER, A. H. Seasonal variations in prices of live poultry. *N. Y. Agr. Col. Farm Econ.* 177: 4587-4589. Nov.1950. 280.8 C812
- 24767 LECLERC, F., and ROY, J. B. L'aviculture en 1950 et prévisions pour 1951. *Terre de Chez Nous* 22(44):19. Dec.27,1950. 7 T27  
Canada.
- 24768 LOCK, A. P. Hatching eggs—handle with care! *Everybodys Poultry Mag.* 56:46-47. Jan.1951. 47.8 F213P
- 24769 LOW, J. B., and PIERCE, C. Wild ducks & geese; field to kitchen care. *Utah. State Agr. Col. Ext. B.* 206,8 p. June 1950. 275.29 U11
- 24770 MCALLISTER, W. T., KISH, A. F., and BAUSMAN, R. O. Consumer preference for frying chicken studied. *Amer. Egg & Poultry Rev.* 11(12):30-32. Dec.1950. 47.8 Am38
- 24771 MELCHIOR, F. B., JR. Egg quality trials. *Nulaid News* 28(7):13. Dec.1950. 47.8 N917  
Stanislaus County, California.
- 24772 MONCRIEF, T. E. Check these suggestions for ordering chicks. *Everybodys Poultry Mag.* 56:18-19. Jan.1951. 47.8 F213P
- 24773 NATIONAL EGG PRODUCTS ASSOCIATION. Research report, by O. J. Kahlenberg. *Chicago?* 1950. 6 p. 47.9 N2122Res  
Egg washing and quality studies.
- 24774 NEUMANN, M. Drei neue aufgaben: deutsche frischel-offensive, importausgleich-regelung, honig-werbezentrale. *Eier-, Wild-, Geflügel- u. Honig-Markt* 2(47):1-2. Nov.23,1950. 280.38 E13
- 24775 PEELE, F. E. A tussle for the turkey raiser. *Mod. Poultry Keeping* 63:557. Dec.6,1950. 47.8 Eg3  
Preparing for Christmas market.
- 24776 PERCIVAL, G. M. Production and disposal of eggs, Australia, 1949-1950. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 3:177-179. Oct.1950. 281.9 Au73
- 24777 POE, W. D. Farmers, distributors, consumers profit from "Virginia's Quality Label." *Prog. Farmer, Carolinas-Va. Ed.* 65(12):15,96. Dec.1950. 6 P945  
Quality control program and how it helps the poultryman.
- 24778 QUILICI, R. Italian poultry industry. (In Italian.) *Cron. Econ.* 91:27-30. Oct.15,1950. 280.8 C882
- 24779 RIEVEL, H., and REUTER, H. Untersuchungen über die brauchbarkeit eines holländischen pasteurisierungsverfahrens zur abtötung gesundheitsschädlicher keime in enteneiern. *Lebensmitteltierarzt* 1:113-115. Aug.1950. 41.8 L49
- 24780 RISHER, F. W. High quality eggs and poultry bring increased profits. *Fla. Poultry & Dairy J.* 16(12): 4,15-16. Dec.1950. 47.8 F66
- 24781 SCANLAN, J. J. Poultry co-ops started from scratch. *News Farmer Coop.* 17(10):9,27. Jan.1951. 166.2 N47
- 24782 SCHUBKEGEL, M., JR. Let's grade for quality and sell our eggs by weight. *N. J. Farm & Gard* 21(12):26. Dec.1950. 6 G162
- 24783 SENS. Zur pasteurisation der enteneier in Holland. *Lebensmitteltierarzt* 1:151-152. Oct.1950. 41.8 L49
- 24784 SERFONTEIN, P. J. Poultry industry and food shortages. *Transkelan Ter. Agr. Dept. Umcebisli Womli-mi Nomfuyi* 27(3):51-52. Aug.1950. 24 T684  
Union of South Africa.
- 24785 SHAFFER, W. R. 1950 Poultry Federation review: at the 25th milepost. (Excerpts.) *Va. Poultryman* 4(12):4-5. Dec.1950. 47.8 V812  
Virginia State Poultry Federation.
- 24786 SMITH, F. L. An outbreak of food poisoning due to infected duck eggs. *Med. Off. (n.s.)* 84:259-260. Dec.16,1950. 448.8 M462  
Due to *Salmonella typhimurium*.
- 24787 SNEEK, Y. A. VAN P. TE. Future of the Dutch poultry industry. III. (In Dutch.) *Pels en Pluim* 5(24):3. Dec.1,1950. 47.8 P36
- 24788 SUSSMAN, O. Public Health authorities object to Federal poultry grading regulations. *Vet. Med.* 46:25. Jan.1951. 41.8 M69  
Notes from an address.
- 24789 TERMOHLEN, W. D. Poultry grading and inspection program of the U. S. Department of Agriculture. (Abs.) *Vet. Med.* 46:23-24. Jan.1951. 41.8 M69
- 24790 VAN WAGENEN, A. Outlook for 1951 difficult to see. *Fla. Poultry & Dairy J.* 16(12):9. Dec.1950. 47.8 F66  
Poultry and eggs.
- 24791 VINE, V. Why do Midwestern eggs bring less money? *Farm J.* 75:30-31,109. Jan.1951. 6 F2212  
Egg quality.
- 24792 VONDELL, J. H. Cut-ups are profitable. *Everybodys Poultry Mag.* 56:13. Jan.1951. 47.8 F213P



24793 WALKUP, H. G. Consumer response to the sale of frozen turkey quarters. Wash. Agr. Expt. Sta. C. 101,26 p. May 1950. 100 W27S

U. S. Bureau of Agricultural Economics and U. S. Production and Marketing Administration cooperating.

24794 WARREN, C. We look ahead to '51. Coop. Poultryman 15(12):11-12. Dec.1950. 47.8 C782

Poultry and egg outlook.

24795 WEDEMEYER, G. What's so hard about that? Mag. Ducks & Geese 1(4):7,14. Fall 1950. 47.8 M27

Plucking ducks and geese.

24796 WHERRY, L. L., and TINKLIN, G. L. Time limit is vital in storing egg-type mix. Food Indus. 22: 2061-2062,2191,2193. Ref. Dec.1950. 389.8 F737

24797 YOHE, R. S. You can make money in poultry! But it will take more than just ordinary effort. Prairie Farmer, Gen. Ed. 123:5. Jan.6,1951. 6 P883

Chiefly egg prices.

24798 YORKE, L. C. The production and marketing of Australian eggs. Rev. Mktg. & Agr. Econ. (n.s.)18: 177-204. Sept.1950. 286.8 N47M

#### RUBBER AND RUBBER SUBSTITUTES

24799 AMERONGEN, G. J. VAN. La sulfonation du caoutchouc naturel. Rev. Gen. du Caoutchouc 27:731-732. Dec.1950. 305.8 R32

English summary, p. 733.

24800 BIE, G. J. VAN DER. Sur l'inhibition de l'oxydation du caoutchouc vulcanisé en présence de composés du cuivre. Rev. Gén. du Caoutchouc 27:655-659. Ref. Nov.1950. 305.8 R32

English summary, p. 667-668.

24801 BORN, S. Die kautschuk-Industrie holt wieder auf. Kautschuk u. Gummi 3:385-387. Nov.1950. 305.8 K162

24802 COOK, J. The purchase and bulk-processing of smallholding latex. Malayan Agr. J. 33:136-143. July 1950. 22.5 F312

24803 CRAIG, D., and others. Tetramethylthiuram disulfide vulcanization of extracted rubber. II-IV. J. Polymer Sci. 6:1-20. Ref. Jan.1951. 381 J829

II, by D. Craig, W. L. Davidson, A. E. Juve, and I. G. Geib; III, by D. Craig, A. E. Juve, and W. L. Davidson; IV, by D. Craig, A. E. Juve, and W. L. Davidson.

24804 DAWSON, T. R. Rubber in the last 50 years. India-Rubber J. 119:942-951. Ref. Dec.2,1950. 305.8 In21

24805 THE DEVELOPMENT of plantation rubber culture in Indonesia. I. Econ. Weekbl. v. Indonesië 16: 859-860,862. Nov.4,1950. 280.8 Ec76

24806 DOGADKIN, B., and TARASOVA, Z. Destructive dissolution of vulcanized synthetic rubbers. (In Russian.) Akad. Nauk SSSR. Dok. 73:701-704. Ref. Aug.1,1950. 511 P444A

24807 ESCALANTE M., J. M. En torno a la goma y la castaña. Campo [La Paz] 4(33):19-21. Jan.1950. 9.1 C15

Bolivia.

24808 HERBETTE, F. Rubber planting in Latin-America. Rev. Gén. du Caoutchouc 27:669-670. Nov. 1950. 305.8 R32

24809 HERBETTE, F. Rubber supply or rubber autarky? Rev. Gen. du Caoutchouc 27:734. Dec.1950. 305.8 R32

24810 HUBLIN, R. Préparation et propriétés des caoutchoucs peptisés. (Abs.) Chim. & Indus. 64(3,spec. no.):67. Sept.1950. 383 C42

24811 KAINRADL, P. Studium des vulkanisationsprozesses im betrieb. Kautschuk u. Gummi 3:395-397. Nov. 1950. 305.8 K162

24812 KOLBANOVSKAÏA, A. S., and REBINDER, P. A. Investigation of elastic and viscous properties of rubber solutions. (In Russian.) Kolloid. Zhur. 12:194-207. May/June 1950. 385 K83

24813 KONRAD, E. Über die entwicklung des synthetischen kautschuks in Deutschland. Angew. Chem. 62: 491-496. Nov.7,1950. 384 Z33

24814 LEMÉE, J. La réception et le stockage du latex dans les ports de Rotterdam et d'Amsterdam. Rev. Gén. du Caoutchouc 27:630-632. Nov.1950. 305.8 R32

English summary, p. 671.

24815 LLEWELYN, W. The outlook for raw materials latex. Bedding 59(6):64-65. Jan.1951. 309.8 B39

24816 MANN, C. E. T., and NEWTON, R. G. The provision of natural rubber with uniform technical properties. India-Rubber J. 119:956-959. Dec.2,1950. 305.8 In21

24817 MURPHY, E. A. Natural latex today. (Condensed.) Canad. Chem. & Process Indus. 34:975-978. Dec.1950. 381 C16

24818 NAARMANN, H. Vom rohkauschuk zum buna. Orion 5:852-856. Nov.1950. 474 Or4

24819 PHILLIS, E. Future of the rubber industry in Ceylon. Planters' Chron. 45:541-544. Oct.15,1950. 22 P693

24820 PICKLES, S. S. A museum for the rubber industry. India-Rubber J. 119:971-975. Dec.2,1950. 305.8 In21

24821 PINAZZI, C. Caoutchoucs alvéolaires; un nouveau procédé de préparation à partir du latex. Rev. Gen. du Caoutchouc 27:725-730. Dec.1950. 305.8 R32

English summary, p. 737.

24822 STRAKA, L. E. Advances in the uses of rubber in engineering: 1949-50. Rubber Age 68:445-453. Ref. Jan.1951. 305.8 R82

24823 THIRION, P. Oberflächenaktive verbindungen in der latex-industrie. Kautschuk u. Gummi 3:402-403. Nov.1950. 305.8 K162

24824 VEERSEN, G. J. VAN. Preparation of cyclized rubber from natural rubber latex. J. Polymer Sci. 6:29-32. Jan.1951. 381 J829

24825 WERKENTHIN, T. A. The extensive utilization of rubber and plastic elastomers in the U. S. Navy. Rubber Age 68:435-442. Jan.1951. 305.8 R82

24826 WOOD, J. W., and FANNING, R. J. Rapid extraction of resins from chille and guayule rubbers. Rubber Age 68:195-197. Nov.1950. 305.8 R82

#### SEEDS

24827 ALLEN, L. C. Arrange for 1951 planting seed now. Prog. Farmer, Tex. Ed. 65(12):17. Dec.1950. 6 T311

Cotton seed.

24828 BERTRAND, M. Dosage de la caféine dans les semences de kola et ses préparations. Ann. Pharm. Franç. 8:637-643. Sept./Oct.1950. 396.8 An7

24829 BUYS, A. C. Retail labelling by the General Netherlands Inspection Service for Agricultural Seeds and Seed Potatoes (N.A.K.). (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Maandbl. 7:433-436. Oct.1950. 12 N383M

24830 CALIFORNIA. SEED POTATO CERTIFICATION SERV. Final report, 1950. Sacramento,1950. 33 p. 75.9 C122S

24831 EHRLE, L. Was muss der junge samenfachhändler von der prüfung und zulassung der gemüsesorten wissen? Saatgut-Wirt. 2:224-225. (To be cont.) Oct. 1950. 61.8 Sa1

24832 EKEN, C. Fachliches aus Westeuropa. Saatgut-Wirtsch. 2:171-172. Aug.1950. 61.8 Sa1

24833 GHOSH, B. K., and DUTTA, A. The constituents of the seeds of *Securigera securidaca* Linn. Indian J. Pharm. 12:233-235. Aug.1950. 396.8 In23

24834 JACOBSEN, J. B. C. The seed crop 1950. (In Danish.) Dansk Frøavl 13:247-252. Dec.15,1950. 61.8 D23

24835 KAMAS, J. FU seed corn plant, built in 1945, now most modern in Middlewest. Nebr. Union Farmer 37(13):3. Nov.22,1950. 280.8 N27

Cooperative marketing.

24836 KUBLAN, A. Stand und aufgaben der saatgutversorgung. Deut. Landwirt. mit Mitt. der Deut. Landwirtschaftsgesell. 1:10-12. Sept.1950. 18 D4822

Russian Zone of Germany.

24837 KUHN, A. O., and STABLER, S. P. Better red clover seed. Md. Farmer 34(12):25. Dec.1950. 6 M362

24838 LITTLE, W. B. New plants create new industry. Soil Conserv. 16:139-141. Jan.1951. 1.6 So3S

The cleaning and processing of seed of soil-conserving grasses and legumes.

24839 MCGOWAN, W. G., JR. So you want to be a seedsman? Crops & Soils 3(4):11,24. Jan.1951. 6 W55

24840 MISSOURI STATE SEED TESTING LABORATORY. Annual report, July 1, 1949- June 30,1950. Kirksville,1950. 69 p. 61.9 M69



- 24841 MØRK, O. Competition in cleaning meadow seeds at the national exhibition of seeds 1950. (In Norwegian.) *Tidsskr. f. det Norske Landbr.* 57:123-128. May/June 1950. 11 T433
- 24842 NORWAY. LANDBRUKSDEPT. Årsmeldinger fra Statens landbrukskjemiske kontrollstasjoner og frokontroll for 1947 [Annual reports of the State agricultural chemical control stations and seed control for 1947]. Oslo, 1950. 63 p. 11 C46E
- 24843 PORTER, C. R., OAKLEY, J., and PIERSON, R. Mechanics of certification process. *Seed World* 68: 14,17,55. Jan.5,1951. 61.8 Se52  
Also in *Seed Trade News* 56:4-5. Jan.3,1951. 61.8 Se3
- 24844 PRIVALOV, A. F. Dug-out method of storing seed vegetables. (In Russian.) *Sad i Ogorod* 1950(9):52-53. Sept.1950. 80 Sa13
- 24845 SEED trade buyers guide, v.34. Chicago, 1951. 270 p. 225 Se3
- 24846 SMITH, B. C. Cleaning and processing seeds. *Amer. Nurseryman* 92(11):13-14,33-35. Dec.1,1950. 80 Am371
- 24847 SMITH, F. V. Outlook for forage crop seed. *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1950:4-5. Dec.28,1950. 275.29 In2Em
- 24848 SVERIGES UTSÄDES FÖRENING. Årsberättelse över Sveriges Utsädesförenings verksamhet år 1949 [Annual report of the activities of the Swedish Seed Association]. *Sveriges Utsädesför. Tidskr.* 60:295-367. 1950. 61.9 Sv23
- 24849 U. S. PRODUCTION AND MARKETING ADMIN. U. S. seed verification service: verified-origin alfalfa and red clover seed dealers for 1950-1951. Washington, 1950. 2 p. 1.956 G76Un34
- SUGAR AND SIRUPS**
- 24850 AGUIRRECHU PAGES, J. En guerra o en paz, tengamos paz. *Anu. Azucarero de Cuba* 14:25,27. 1950. 281.3659 C89  
Text in Spanish and English.  
Cuban sugar industry.
- 24851 AHLFELD, H. Die zuckerstatistik in der praxis. *Zucker* 3:382-384. Sept.1,1950. 65.8 Z82
- 24852 ASP, O. Erfarenheter av RT-diffusionen i skivarp år 1949. The RT-diffusion in Skivarp camp. 1949. *Socker* 6:183-191. Oct.1950. 65.8 Sol  
English summary.  
Sugar beet processing.
- 24853 ASSOCIATION OF SUGAR PRODUCERS OF PUERTO RICO. Manual of sugar statistics. Washington, D.C., 1950. 56 p. 281.3659 As72
- 24854 THE AUSTRALIAN sugar year book, 1950. Brisbane, 1950. 472 p. 65.9 Au7
- 24855 BAXA, J. Die deutsche zuckerindustrie vor 100 jahren. *Zucker* 3:377-379. Sept.1,1950. 65.8 Z82
- 24856 BAXA, J. Der zucker in der fremde. *Zucker* 3:387-389. Sept.1,1950. 65.8 Z82
- 24857 BECKER, D. Schwefelwasserstoff in getrockneten schnitzeln. *Zucker* 3:428-430. Oct.1,1950. 65.8 Z82
- 24858 BEHNE, E. R. Standardisation in the sugar industry. *Austral. Sugar Ybk.* 9:135. 1950. 65.9 Au7  
In manufacture.
- 24859 BELL, A. F. Some notes on the history and development of the sugar industry. *Austral. Sugar Ybk.* 9:18-24. 1950. 65.9 Au7
- 24860 BERRY, W. R. Rehabilitation of Philippine sugar industry. *Sugar J.* 13(7):24-26. Dec.1950. 65.8 Su391
- 24861 BJERKHOG, K. Skivarp's RT-diffusion och Ogdenskar maskiner ur snitselkvalitetssynpunkt. Skivarp's RT diffusion and Ogdens slicers with respect to the quality of the cosettes. *Socker* 6:173-181. Sept.1950. 65.8 Sol  
English summary.
- 24862 BUNUAN, V. G. Facts about sugar. *Sugar News* 26:475. Sept.1950. 65.8 Su36  
Philippine Republic.
- 24863 CAYRE, H. Le prix de la betterave 1950. *Planteurs de Betteraves* 62:1,7. Sept./Oct.1950. 66.9 C762
- 24864 CHAKINE, A. Les succès de l'industrie sucrière soviétique. *Rev. Internat. des Prod. Colon.* 25:203-204. Nov.1950. 286.8 R326
- 24865 CHOQUETTE, C. Avec 135,000 tonnes, pleine capacité! La raffinerie de St-Hilaire sera-t-elle vendue aux producteurs intéressés? *B. des Agr.* 46(11):12-13, 97. Nov.1950. 7 B872  
Canada.
- 24866 CIANCARELLI, U., and DAHLBERG, H. W. The barium saccharate process in Italy and the United States. *Sugar* 45(12):29,32-35. Dec.1950. 65.8 F11
- 24867 CONDON, E. J. Friction factor cane on carriers. *Hawaii. Sugar Technol. Rpt.* 9:80-82. 1950. 65.9 H317
- 24868 CUBA ECONOMICA Y FINANCIERA. Anuario azucarero de Cuba (Cuba sugar year book) 1950. Habana, 1950. 222 p. 281.3659 C89
- 24869 DESBORDES. Les problèmes de l'alcool: le point de vue des producteurs. *Cahiers des Ingén. Agron.* 6:10-14. Third Q.1950. 14 C112  
Chiefly on the French sugar beet industry as a source of raw material.
- 24870 DIÉGUES JÚNIOR, M. Sugar in the presidential reports of Pernambuco. II. (In Portuguese.) *Brasil Açucareiro* 35:637-639. June 1950. 65.8 B73
- 24871 DUBOIS. Les problèmes de l'alcool: le point de vue des transformateurs. *Cahiers des Ingén. Agron.* 6: 15-18. Third Q.1950. 14 C112  
Chiefly from beet sugar in France.
- 24872 DUBOURG, J., SAUNIER, R., and FONTAINE, V. Observations sur le dosage des sels de chaux en sucrerie par la méthode hydrométrique. *Sucr. Franç.* 91:218-220. Oct.1950. 65.8 J82
- 24873 DUVALL, A. Some present day considerations on Hawaii's sugar mill filtration problems. *Hawaii. Sugar Technol. Rpt.* 9:101-105. 1950. 65.9 H317
- 24874 EICHERT, C. Vergleichende kampagnestatistik des bundesgebietes. *Zucker* 3:430-433. Oct.1,1950. 65.8 Z82  
Sugar beets in Germany.
- 24875 FAUSEL, W. Wird eine neue zuckerfabrik errichtet? *Württemb. Wchnbl. f. Landwirt.* 117:1126-1127. Dec.16,1950. 18 W96
- 24876 FISHER, H. S. Corn sweeteners. (Extr.) *Confectionery-Ice Cream World* 44(24):8,24. Dec.15, 1950. 389.8 C767
- 24877 FRISCH, A. Strukturveränderungen in der französischen zuckerwirtschaft. *Wirtschaftsdienst* 30(11): 40-43. Nov.1950. 280.8 W74
- 24878 FUSS, E. Die zuckerrübenernte. *Deut. Landwirt. mit Mitt. der Deut. Landwirtschafts.* 1:31-32. Sept. 1950. 18 D4822  
Labor and preservation in the Russian Zone of Germany.
- 24879 GALVÃO, M. F. J. Considerations of the clarification of the sirup and the influence of the de-canted sirup in the crystallization of sugar. (In Portuguese.) *Brasil Açucareiro* 35:611-614. June 1950. 65.8 B73
- 24880 GIBSON, R. C. The Sugar Board. *Austral. Sugar Ybk.* 9:97,99. 1950. 65.9 Au7
- 24881 GILLESE, J. P. Canada's sugar beet saga. *Family Herald & Wk. Star* 81(46):3,13,21. Nov.16,1950. 7 F21
- 24882 HIND, R. R. A new era in sugar production; "elguanite" process promises to revolutionize industry. *Sugar News* 26:448-450. Sept.1950. 65.8 Su36
- 24883 HOLGATE, K. C. Changes in the composition of maple sap during the tapping season. *N. Y. (State) Agr. Expt. Sta. B.* 742,14 p. Ref. June 1950. 100 N48
- 24884 JEANES, A. Dextran, a selected bibliography. *U. S. Bur. Agr. & Indus. Chem. AIC-288*, 13 p. Oct. 1950. 1.932 A2Ag82
- 24885 KEISER, D. M. El Consejo Azucarero Cubano en los Estados Unidos y su labor a favor de Cuba. *Anu. Azucarero de Cuba* 14:29-30. 1950. 281.3659 C89  
Text in Spanish and English.
- 24886 KERR, J. Know your ingredients: sugar. *Brit. Baker* 121:649-650. (Cont.) Dec.22,1950. 389.8 B772
- 24887 KÖHLER, O. Reminiszzenzen an die 50- und 75 jährige jubiläumsfeier des Vereins der Deutschen Zuckerindustrie 1900 und 1925. *Zucker* 3:384-387. Sept.1,1950. 65.8 Z82
- 24888 KOOLJ, J. N. The use of ion exchange in the beet sugar industry. (In Dutch.) *Chem. Weekbl.* 46:795-801. Ref. Nov.4,1950. 385 C42  
English summary.
- 24889 KRUSE, A., and MAHON, H. Power and load analysis of unloading cane by the net system. *Hawaii. Sugar Technol. Rpt.* 9:78-79. 1950. 65.9 H317



- 24890 LANG, L. Liquid sugar in the candy plant. Mfg. Confectioner 31:23-24. Jan.1951. 389.8 M31
- 24891 LEUBUSCHER, C. The processing of sugar cane and of cane sugar. Colon. Plant & Anim. Prod. 1:3-32. Jan./Mar.1950. 472 C71
- 24892 LILLIENSKIOLD, M. VON. Die entkalkung von dünnsaft durch ionen-austauscher. Zucker 3:370-372. Sept.1,1950. 65.8 Z82
- 24893 MAGNUSSON, O. Efterproduktfyllmassans spädning och kylning samt i Säbyholm tillämpat system. Low-grade massequite dilution and cooling. Socker 6:133-171. Aug.1950. 65.8 Sol
- English summary.
- 24894 MARCILLAC, L. Le régime de l'alcool. Cahiers des Ingén. Agron. 6:29-30. Third Q.1950. 14 C112
- From sugar in France.
- 24895 METAYER, M. Étude sur l'épuration en sucrerie. (Abs.) Chim. & Indus. 64(3,spec.no.):68. Sept.1950. 383 C42
- 24896 MINDREAU G., C. Consideraciones sobre el mejor aprovechamiento de residuos y subproductos en la industria azucarera. Cong. Peruano de Quim. Actas y Trab. 1949(2):604-613. Ref. 385 C763
- 24897 MONTGOMERY, J. W. Removal of sand from mixed juice. Hawaii. Sugar Technol. Rpt. 9:98-100. 1950. 65.9 H317
- 24898 MONTILLA, E. J. C. The past, present and future of our sugar industry. Sugar News 26:471-474. Sept.1950. 65.8 Su36
- Philippine Republic.
- 24899 MCSOLFF, H. Die entwicklung des deutschen zuckerverbrauchs in der jahren 1850 bis 1950. Zucker 3:380-382. (To be cont.) Sept.1,1950. 65.8 Z82
- 24900 MOTT-SMITH, R. H., and SMITH, W. E., JR. Elguante clarification at Grove Farm Company, Ltd. Hawaii. Sugar Technol. Rpt. 9:84-89. 1950. 65.9 H317
- 24901 MUIR, R. J. S. The Australian sugar industry. Austral. Sugar Ybk. 9:9-17. 1950. 65.9 Au7
- 24902 MUIR, R. J. S. Sugar industry award claims, 1950. Prod. Rev. 40(12):37,39-40D. Oct.15,1950. 23 P942
- The sugarcane industry in Australia, and the employees' claim for an increase in wage rates.
- 24903 PARNES, I. Equipment for liquid sugar installation. Mfg. Confectioner 31:33-34,36. Jan.1951. 389.8 M31
- 24904 PARNES, I. Liquid sugar in the candy plant. (Extr.) Confectionery-Ice Cream World 44(24):6,23. Dec.15,1950. 389.8 C767
- 24905 PEARCE, E. T. S. Raw sugar milling. Austral. Sugar Ybk. 9:65,67. 1950. 65.9 Au7
- 24906 PIEDRA K., R. DE LA. La industria azucarera y el aprovechamiento de la tierra agrícola. Vida Agr. [Lima] 27:897-899,901,903-904. Nov.1950. 9.8 V66
- 24907 PIKE, H. H., & SON. Sugar 1950. n.p.1951. 1 p. 286.3659 P63
- Statistical report.
- 24908 QUEBEC. BUR. DES STATISTIQUES. Produits de l'érable 1950. Quebec,1950. 4 p. 253.8 St2M
- Text also in English.
- 24909 RODRIGUEZ, A. H. La industria refinadora de azúcar, su rapido crecimiento y sus proyecciones futuras. Anu. Azucarero de Cuba 14:27,29. 1950. 281.3659 C89
- Text in Spanish and English.
- Cuba.
- 24910 ROGGE, K. Hundert jahre zuckerpolitik. Zucker 3:361-365. Sept.1,1950. 65.8 Z82
- 24911 ROMERO MONTERO, R. La dulzura del "amargo" mundo actual. Siembra [Madrid] 6(10):5-7. Oct.1950. 15 S11
- World sugar situation and outlook.
- 24912 SANTIESTEBAN OCHOA, T. Estabilidad interior y exterior: meta de la industria azucarera cubana. Anu. Azucarero de Cuba 14:23,25. 1950. 281.3659 C89
- Text in Spanish and English.
- 24913 SORGATO, I. Dextrose from cellulose. (In Italian.) (Abs.) Chim. & Indus. 64(3,spec.no.):68. Sept.1950. 383 C42
- 24914 STOKES, I. E. Effect of storage on yield and quality of sugarcane sirup in Mississippi. Miss. Agr. Expt. Sta. C. 154,7 p. Aug.1950. 100 M69
- 24915 SUGAR TECHNOLOGISTS' ASSOCIATION OF INDIA. Indian sugar manual 1949. Kanpur,1950. 250 p. 286.86 In2
- World situation and outlook with statistics.
- 24916 TEJADA MAGILL, C. J. La obtención del furfural a partir del bagazo de caña de azúcar. Cong. Peruano de Quim. Actas y Trab. 1949(1):223-241. Ref. 385 C763
- 24917 THIELEPAPE, E. Rübensaft-reinigung nach Wiklund und Lindblad. Zucker 3:420-426. Ref. Oct.1, 1950. 65.8 Z82
- 24918 ULRICH, K. Aus der frühzeit der deutschen zuckerindustrie. Zucker 3:372-377. Sept.1,1950. 65.8 Z82
- 24919 UNITED PROVINCES. CANE DEVELOPMENT DEPT. Annual report, for the year ended June 30, 1949. Allahabad,1950. 31 p. 65.9 Un32
- 24920 U. S. BUR. OF AGRICULTURAL ECONOMICS. The world sugar situation. Washington,1950. 65 p. 1.9 Ec752Ws
- 24921 VILLANES PALACIOS, O. Determinación del hierro en el azúcar blanca y morena. Cong. Peruano de Quim. Actas y Trab. 1949(2):552-553. 385 C763
- 24922 WALLACE, A. F. Semi-automatic commercial sugar centrifugals. Hawaii. Sugar Technol. Rpt. 9:89-92. 1950. 65.9 H317
- 24923 WARREN, G. T. Effect of drought on chemical control. (In Portuguese.) Brasil Açucareiro 35:615-616. June 1950. 65.8 B73
- 24924 WEBB, R. T. Control of juice purity in clarifiers during storage periods. Hawaii. Sugar Technol. Rpt. 9:92-96. 1950. 65.9 H317
- 24925 WEBRE, A. L. Glucose destruction in cane sugar manufacture. So. African Sugar J. 34:733,735. Nov.1950. 65.8 So8
- 24926 WEISS, F. Das zuckergesetz. Württemb. Wehnl. f. Landwirt. 117:1025-1026. Nov.11,1950. 18 W96
- 24927 WOLFF, O. Dextrin: herstellung, untersuchungsmethoden und gütebestimmungen. Stärke 2:273-279. Nov.1950. 309 St22
- English summary.

## TOBACCO

- 24928 BLAIR, R. J. Curing Turkish tobacco electrically. Farm Electrifi. 4(6):21-25. Nov./Dec.1950. 335.8 F224
- 24929 CARMONA, R. Last crop serious handicap on Island to tobacco planters suffering reverses. Tobacco [New York] 131(26):16-17. Dec.28,1950. 286.89 T552
- 24930 CARMONA, R. Puerto Rican farmers determined to win by intensive methods. (In Spanish.) Tobacco [New York] 131(26):17-18. Dec.28,1950. 286.89 T552
- Tobacco cooperatives.
- 24931 CATTELAINE, M. L'industrie du tabac et le Benelux. Rev. Internatl. des Tabacs 25:197-199. Nov. 1950. 69.8 R324
- 24932 CLAFFEY, J. B., ESKEW, R. K., and BEINHART, E. G. Recovery of nicotine from Nicotiana rustica by steam distillation. U. S. Bur. Agr. & Indus. Chem. AIC-284,8 p. Oct.1950. 1.932 A2Ag82
- 24933 CLAFFEY, J. B., and others. Scrubbing nicotine from stream. U. S. Bur. Agr. & Indus. Chem. AIC-285,6 p. Dec.1950. 1.932 A2Ag82
- E. O. Strolle, G. W. M. Phillips, and R. K. Eskew, joint authors.
- 24934 COLON-TORRES, R. Government of Puerto Rico cooperates with planters to improve conditions. Tobacco [New York] 131(26):9-10. Dec.28,1950. 286.89 T552
- 24935 EICHINGER, J. Der tabakbau in Bayern. Bayern in Zahlen 4:489-490. Oct.1950. 265 B34
- Statistical.
- 24936 FORTY years of Tobaccoland. Tobacco Rec. 40(12):5-6,8,16,18,22,24,28,30. Dec.1950. 286.89 T5532
- 24937 FRANKENBURG, W. G. Can we make our cigar leaf taste better? Tobacco Leaf 86(4481):27. Dec.30, 1950. 286.89 T557
- 24938 GIL DE RUBIO, V. M. Adverstising of Puerto Rican tobacco and cigars most pertinent to trade. Tobacco [New York] 131(26):14-15. Dec.28,1950. 286.89 T552
- 24939 GUGNONI, D. Qualitative researches on tobaccos. (In Italian.) (Abs.) Chim. & Indus. 64(3,spec.no.):67. Sept.1950. 383 C42
- 24940 HUNT, R. Here is your check; tobacco is a delicate crop. Treat it with equal respect. The condition of the tobacco has a lot to do with the size of your check. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 65(12):17. Dec. 1950. 6 P945K



- 24941 JACUBETT, B. L'industrie de fermentation du tabac allemand. *Rev. Internatl. des Tabacs* 25:211. Nov.1950. 69.8 R324
- 24942 JOGLAR-RODRIGUEZ, F. Puerto Rican planter tobacco problems; what they can do to help themselves. *Tobacco* [New York] 131(26):11-12. Dec.28,1950. 286.89 T552
- 24943 KATOZIAN, I. L'industrie du tabac en Perse. *Rev. Internatl. des Tabacs* 25:199. Nov.1950. 69.8 R324
- 24944 KOONTZ, L. L. New crop plus better curing yields more profits. *Elect. on the Farm* 24:10-11,34. Jan.1951. 335.8 EL27 Tobacco.
- 24945 MEISNER, F. Schwarzer tag für unsere tabakpflanze. *Süddeut. Tabakztg.* 60(51/52):15. Dec.25, 1950/Jan.1,1951. 286.89 Su2 Prices.
- 24946 MINARD, R. Connecticut Valley. Tobacco *Rec.* 40(12):19,26. Dec.1950. 286.89 T5532 The tobacco industry.
- 24947 MOTA, F. Producción y consumo de tabaco en España. *Cuba Econ. y Financ.* 25(297):15-18. Dec. 1950. 286.8 C892
- 24948 PICASSO VICENT, A. La producción nacional de tabaco. *Almanaque Agr. Ceres* 1951:299-310. 1950. 15 AL6 Spain.
- 24949 ROJAS, A. Strong, steady, demand in Puerto Rico needed for 24 million leaf pounds. *Tobacco* [New York] 131(26):13. Dec.28,1950. 286.89 T552
- 24950 SPERA, L. Present directions in the culture of tobacco. (In Italian.) *Terra e Sole* 99:369-372. Nov.1950. 16 T273 Italy.
- 24951 TOBACCO World retail prices, 38, 1950. London,1950. 79 p. 284.3699 T55
- 24952 U. S. PRODUCTION AND MARKETING ADMIN. Annual report on tobacco statistics, 1950. U. S. D. A. *Statist. B.* 92,72 p. Dec.1950. 1 Ag84St
- 24953 U. S. PRODUCTION AND MARKETING ADMIN. Burley tobacco, type 31: acreage, yield, price, production, stocks, supply, and disappearance, 1940-50. Washington, 1950. 1 p. 1.956 T55B92
- 24954 U. S. PRODUCTION AND MARKETING ADMIN. Official standard grades for dark air-cured tobacco (U.S. types 35, 36, and 37). Washington,1950. 8 p. 1.956 A2of24
- 24955 U. S. PRODUCTION AND MARKETING ADMIN. Proposed revision of the Tentative standard grades for sorted and unsorted broadleaf tobacco of type 51. Washington,1950. 14 p. 1.956 T55P942
- 24956 U. S. PRODUCTION AND MARKETING ADMIN. Tobacco: acreage, yield, price per pound, production, stocks, supply, and disappearance, 1940-50, fire-cured, types 21-24. Washington,1950. 1 p. 1.956 T55T558
- 24957 U. S. PRODUCTION AND MARKETING ADMIN. Tobacco: price supports, marketing quotas, Federal grading. U. S. D. A. Pa-140,15 p. Nov.1950. 1 Ag84Pro
- 24958 U. S. PRODUCTION AND MARKETING ADMIN. Virginia sun-cured tobacco, type 37: acreage, yield, price per pound, production, stocks, supply, and disappearance, 1940-50. Washington,1950. 1 p. 1.956 T55V81
- 24959 VEN, R. VAN DER. Tobacco and chemistry. (In Dutch.) *Tabaksplant* 77:286. (To be cont.) Dec.19, 1950. 286.89 T114
- 24960 BARR, J. E. Inspection assures hop quality. *Mktg. Activ.* 13(11):11-16. Nov.1950. 1.942 A8M34
- 24961 BASTIAN, J. The Gladiolus bulb industry in Josephine County [Oregon]. *Oreg. Dept. Agr. Agr. B.* 168:15-16. Dec.1950. 2 Or3
- 24962 ISEBAERT. Les houblons et les orges de la récolte 1950. *Petit J. du Brasseur* 58:850-853. Nov.3, 1950. 390.8 P44 France.
- 24963 KELL, J. La situation économique de la floriculture gantoise. *Rev. de l'Agr.* 3:1031-1039. Oct. 1950. 13 R322 English summary.
- 24964 MAMEREN, J. VAN. Fish preservation in Indonesia. *Econ. Rev. Indonesia* 4:92-93. July/Sept. 1950. 290.9 Ec725
- 24965 NIKKILÄ, O. E. Salting of fish in accordance with its fat content. (In Finnish.) *Suomen Maataloustiet. Seura. Maataloustiet. Aikakausk.* 22:103-106. 1950. 30 Su7M English summary.
- 24966 OPPENHEIM, R. A dangerous situation. *Hopper* 7(8):4. Nov.1950. 70.8 H77 Hop acreage.
- 24967 POTTINGER, S. R. An improved method of glazing fish for locker storage. *Quick Frozen Foods* 13 (4):120,122. Nov.1950. 389.8 Q4
- 24968 SCHELENK, A., FIRM, NURNBERG, Der welt-hopenmarkt als teilgebiet der welt-brau-industrie. Nürnberg,1950. 12 p. 70 Sch32
- 24969 SCHULTHEISS, W. 600 jahre nürnbergger hopenmarkt. *Brauwelt* 1950:979-980. Nov.16,1950. 390.8 B732
- 24970 SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS. Floricultural and ornamental horticultural economics. Progress report, by M. T. Fossum. Chicago,1950. 150 p. 96.04 Sol
- 24971 STUYVENBERG, J. H. VAN. Notes on the minimum price regulation of flowers. (In Dutch.) *Vakbl. v. de Bloemisterij* 5:371-372. Nov.17,1950. 80 V22
- 24972 TANI, T., and KIMURA, S. Chemical components of edible wild grass produced in Tohoku District. (In Japanese.) *Tokyo. Food Res. Inst. Rpt.* 3:67-73. June 1950. 389.9 T57 English summary.
- 24973 VANDENDAELE, P. The dilemma of floriculture in Gent. (In Flemish.) *Tuinbouwberichten* 14:186-187. Dec.15,1950. 80 T817
- 24974 WEVER, J. DE, and MOLLEM, A. VAN. Le dosage des acides amers au cours de la maturation du houblon. *Fermentatio* 1950:123-128. 390.8 F38
- 24975 ZOCHER, A. Der heutige stand der chemischen forschung auf dem gebiet der hopenbitterstoffe. II. Brauwissenschaft 1950:212-214. Ref. Nov.1950. 390.8 B732

#### AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

References on farm structures and rural housing are classified with Agricultural Engineering.

#### GENERAL

- 24976 BURTON, G. L. A glance back, a guess ahead. *Macdonald Col. J.* 11(3):2-4. Nov.1950. 101 M144
- 24977 FRIETEMA, H. The problem of European economic integration and agriculture. (In Dutch.) *Co-op* [Rotterdam] 5:283. Dec.1950. 280.28 C7857
- 24978 GANIERE, M. Les rapports entre l'agronomie et l'industrie. (Abs.) *Chim. & Indus.* 64(3,spec.no.):67. Sept.1950. 383 C42
- 24979 HARKI, I. The best ways for mutual support between agriculture and industry. (In Finnish.) *Teho* 1950(9):14-16. 20 T98 English summary, p. 58. Finland.
- 24980 HOOS, S. Economic research in agriculture. *Calif. Fruit News* 123(3262):4-5,9-11. Jan.13,1951. 80 C12
- 24981 NORTHERN GREAT PLAINS TENURE COMMITTEE. Toward stability in the Great Plains economy. *Nebr. Agr. Expt. Sta. B.* 399,110 p. July 1950. 100 N27
- 24982 SCHULTZ, T. W. Economic efficiency: its meaning, measurement, and application to agricultural problems. *Social Sci. Res. Council. Items* 4:39-41. Dec.1950. 280.9 Sol2S
- On the interuniversity summer research seminar under the Social Science Research Council.
- 24983 TORRES FILHO, A. Economic policy. (In Portuguese.) *Seleç. Agr.* 5(54):5-7. Oct.1950. 9.2 Se4 Brazil.
- 24984 ZENNARO, S. Agricultural economic itinerary of Polesine: the Grignano "commune." (In Italian.) *Rass. Econ. del Polesine (n.s.)* 4:203-208. (Concl.) Sept./Oct.1950. 280.8 R183

#### MISCELLANEOUS PRODUCTS



## AGRICULTURAL FINANCE

- 24985 BOOKHOUT, B. R. Farm machinery and farm finances. Mich. Agr. Expt. Sta. Q. B. 33:151-159. Nov. 1950. 100 M58S  
Effect of mechanization on the investment, expense, income, and efficiency on Michigan farms.
- 24986 CRAMOIS, A. La trésorerie des exploitations agricoles. Acad. d'Agr. de France. Compt. Rend. 36:555-557. Oct.11/18,1950. 14 P215Bc  
Financial situation.
- 24987 DEXTER, K. Changes in the valuation of crops, livestock and equipment of dairy farms. Nottingham. U. Dept. Agr. Econ. Farm Mangt. Notes 1950 (4):13-15. Autumn 1950. 281.9 N842  
England.
- 24988 DEXTER, K. Farming with an overdraft. Nottingham. U. Dept. Agr. Econ. Farm Mangt. Notes 1950(4):4-6. Autumn 1950. 281.9 N842
- 24989 LARSEN, H. C. Limitations to obtaining developmental capital in agriculture. Agr. Finance Rev. 13: 24-31. Nov.1950. 1.9 Ec78Af
- 24990 MEJER, E. Tenant's capital and prospective farmers. Nottingham. U. Dept. Agr. Econ. Farm Mangt. Notes 1950(4):6-8. Autumn 1950. 281.9 N842  
England.
- 24991 MILLER, M. M. The family dollar; plan its use for better family living. Minn. U. Agr. Ext. Pam. 173,6 p.-folder. Oct.1950. 275.29 M66P
- 24992 MILLER, M. M. Getting your money's worth. Minn. U. Agr. Ext. Pam. 175,6 p.-folder. Oct.1950. 275.29 M66P
- 24993 U. S. BUR. OF AGRICULTURAL ECONOMICS. Agricultural finance review, v. 13,117 p. Nov.1950. 1.9 Ec78Af
- 24994 VICINELLI, P. Investments in agriculture. (In Italian.) Agr. Ital. 1:597-601. Dec.1,1950. 16 Ag822  
Italy.
- 24995 WALLACE, M. E. Financial survey of Virginia agriculture. Agr. Finance Rev. 13:1-14. Nov.1950. 1.9 Ec78Af
- 24996 WOOD, R. O. Is your capital safe? Nottingham. U. Dept. Agr. Econ. Farm Mangt. Notes 1950(4):8-10. Autumn 1950. 281.9 N842
- 24997 WRIGHT, K. T., and DONETH, J. C. The business side of Michigan farming, 1940-49. Mich. Agr. Expt. Sta. Q. B. 33:73-95. Nov.1950. 100 M58S  
Contains statistics of prices, income and expenses.
- Credit
- 24998 AMERICAN BANKERS' ASSOCIATION. AGRICULTURAL COMMISSION. An outside program for country banks. New York?1950. 11 p. 284.2 Am330
- 24999 AMERICAN BANKERS' ASSOCIATION. AGRICULTURAL COMMISSION. A program for country banks 1951. New York,1950. 12 p. 284.29 Am3P
- 25000 BALTZER, R. N., and BRENNER, H. What the correspondent bank can do to facilitate its services to the country bank. Miss. Banker 35(6):13,25-29. Nov. 1950. 284.8 M69
- 25001 BANCO DE LA REPUBLICA ORIENTAL DEL URUGUAY. Memoria y balance general ejercicio 1949. Montevideo,1950. 152 p. 284.9 B2299
- 25002 BANK DEUTSCHER LÄNDER. Report for the years 1948 and 1949. Frankfurt-on-Main,1950. 117 p. 284.9 B2228Ae
- 25003 CHATER, S. W. How agriculture's own credit resources can be mobilised. Primary Prod. [Cape Town] 26(43):19. Dec.1,1950. 281.8 P93  
Union of South Africa.
- 25004 COOK, W. D. Livestock loans. Miss. Banker 35(7):15,27-28. Dec.1950. 284.8 M69
- 25005 DAVIS, J. H., and ROEMERSHAUSER, A. E. What the local bank can do to improve correspondent bank service. Miss. Banker 35(7):17,28-32. Dec.1950. 284.8 M69
- 25006 DEVORE, P. T. Co-op credit helps veterans homestead. Grain Prod. News 3(7):17-18,23. Dec.1950. 286.81 G764
- 25007 DIESSLIN, H. G., and HEITZ, G. E. Budgeted farm loans are popular. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1950:5,7-8. Nov.27,1950. 275.29 In2Em
- 25008 FARRINGTON, R. L. Better credit helps co-ops and farmers. News Farmer Coop. 17(10):21. Jan. 1951. 166.2 N47
- 25009 FRANCE. CAISSE NATIONALE DE CREDIT AGRICOLE. Rapport sur l'activité du crédit agricole mutuel pendant l'année 1948. Paris,1950. 30 p. 284.29 F84
- 25010 FRANCE. CAISSE NATIONALE DE CREDIT AGRICOLE. Rapport sur la situation du crédit agricole mutuel au 31 décembre 1949. Paris,1950? 53 p. 284.29 F84S
- 25011 FRANCIS, D. R., and BROWN, L. What the country bank can do to improve correspondent bank service. Miss. Banker 35(6):12,21-22,24-25. Nov.1950. 284.8 M69
- 25012 GÓMEZ RAMÍREZ, C. A. Damnificados de Santander. Rev. Nac. de Agr. [Bogotá] 44(546):32-33. Oct.1950. 9.4 R32  
Work of the Instituto de Crédito Territorial.
- 25013 GRIFFITH, G. W. Country bank lending policies. Tenn. Banker 38(12):8,10-12. Dec.1950. 284.8 T25
- 25014 HARTMAN, A. J. New form of credit for horticulture in the Veen area. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:803-804. Nov.1950. 84 N384
- 25015 HASTINGS, R. G. What the correspondent bank can do to facilitate its service to the country bank. Miss. Banker 35(6):20-21. Nov.1950. 284.8 M69
- 25016 HESSELBJERG, M. Interests on farm mortgages determined by the economic outlook. (In Danish.) Tidsskr. f. Landøkon. 1950:489-502,525-539. Oct.-Nov. 1950. 11 T43  
Denmark.
- 25017 HUMMEL, C. Farm records aid in loan agreements. (Condensed.) Ohio Banker 43(10):8. Dec.1950. 284.8 Oh3
- 25018 HUNT, A. F. Bank loans. Nottingham. U. Dept. Agr. Econ. Farm Mangt. Notes 1950(4):12-13. Autumn 1950. 281.9 N842  
England.
- 25019 KAMARAJU, V. Agricultural indebtedness in India—with special reference to Madras. Madras J. Co-op. 42:202-205. Oct.1950. 280.28 M26
- 25020 KREDITFORENINGEN AF EJERE AF MINDRE EJENDOMME PAA LANDET I ØSTIFTERNE. Beretning og regnskab for 69. regnskabsår 1. april 1949-31. marts 1950. [Report and accounts of the Credit Association of Owners Smaller Properties in the country in the Island Provinces for the 69th account year, April 1, 1949-March 31, 1950.] København,1950. 30 p. 284.29 R29
- 25021 LUDWIG, P. Cuestiones fundamentales de la formación del crédito agrícola cooperativo. Cooperación [Madrid] 104:29-30. Oct.1950. 280.28 C7875  
Also in Bas-Rhin Agr. 5:589-590. Dec.9,1950. 14 B29
- 25022 MORANDINI, E. The example of Sicily shows the way to distribution of credit for small and medium-sized farmers. (In Italian.) Agenzia Romana Note e Inform. Agr. 88:1. Dec.23,1950. 281.8 Ag3
- 25023 MORELL, M. Fomento y crédito. Rev. del Café 6(6):9. Nov.1950. 8 R3295  
Puerto Rico.
- 25024 MULLINS, R. L. How to set up credit files in a country bank. Bank News 50(62):13-14,43. Dec.15,1950. 284.8 B224
- 25025 MYERS, W. I. Agriculture and farm credit. N. Y. Agr. Col. Farm Econ. 177:4574-4579. Nov.1950. 280.8 C812
- 25026 NAIDU, K. S. Land mortgage banking through a quarter century. Madras J. Co-op. 42:132-138. Sept. 1950. 280.28 M26
- 25027 O'CONNOR, R. Credit for the farmer. Agr. Ireland 7:271,273,275. Dec.1950. 10.5 Ag8
- 25028 PEÑALOZA, M. A. Crédito agrario. Córdoba. U. Nac. Facul. de Cien. Econ. Rev. 2:241-368. Ref. Second/Third Q.1949. 280.8 C813
- 25029 PEREZ LAVIELLE, G. El banco agrícola. Rev. Ganad. [Habana] 10(12):19,48. Dec.1950. 49 R321  
Proposed Banco de Fomento Agrícola e Industrial, Cuba.
- 25030 PIERCE, W. H. Credit for the tobacco farmer. Res. & Farming [N. C. Sta.] 9(2):3-4. Autumn 1950. 100 N81R
- 25031 QUEENSLAND. AGRICULTURAL BANK. Annual report for the year ended 30th June, 1950. Brisbane,1950. 17 p. 284.29 Q3
- 25032 REINKING, C. W. A management challenge to country banking. Burroughs Clearing House 35(4):34-36, 70-71. Jan.1951. 284.8 B94



25033 SCHROEDER, W. W., and BROWN, J. What the country bank can do to improve correspondent bank service. *Miss. Banker* 35(7):12,22-24,26. Dec.1950. 284.8 M69

25034 SPAIN. SERV. NACIONAL DE CRÉDITO AGRÍCOLA. Memoria correspondiente al ejercicio económico de 1949. Madrid,1950? 55 p. 284.29 Sp12

25035 TREHAN, Y. N. Takavi loans in India. *India. Dir. Econ. & Statist. Agr. Situation India* 5:465-473. Oct. 1950. 281.9 In23

Agricultural credit.

25036 U. S. COMMODITY CREDIT CORPORATION. Commodity Credit Corporation charts, providing a graphic summary of operations, 1933-June 30, 1950. Washington,1950. 55 p. 1.957 C38

25037 U. S. FARMERS HOME ADMIN. Report of the administrator, 1949/50; investments in better rural living. Washington,1950. 45 p. 1.949 R293

25038 VENKATARATNAM, B. Some suggestions for developing land mortgage banks. *Madras J. Co-op.* 42: 139-142. Sept.1950. 280.28 M26

25039 WALTER, W. G. What correspondent banks can do for country banks. *South. Banker* 95:26,59,61. Jan. 1951. 284.8 S08

25040 WALTER, W. G., and FORTNER, C. P. What the correspondent bank can do to facilitate its service to the country bank. *Miss. Banker* 35(7):13,32-34. Dec.1950. 284.8 M69

25041 WISECARVER, R. R. Country bank loans. *Tenn. Banker* 39:10,12-14. Jan.1951. 284.8 T25

#### Income

25042 DU PLESSIS, C. VAN H. What is the profit in trade in agricultural products? (In Afrikaans.) *Landbou-weekblad* 31(1637):8,11. Nov.29,1950. 24 L232

Union of South Africa.

25043 MCKAY, D. H. Australian farm income. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 3:153-155. Oct.1950. 281.9 Au73

25044 STEPHENS, W. P. Farm incomes in the Mesilla Valley, New Mexico, 1946-1949. *N. Mex. Agr. Expt. Sta. Press B.* 1043,37 p. Oct.1950. 100 N465

25045 THAIR, P. J. Stabilizing farm income against crop yield fluctuations. *N. Dak. Agr. Expt. Sta. B.* 362, 31 p. Sept.1950. 100 N813

25046 WIRTH, Die verkaufserlöse der württemberg-badischen landwirtschaft im wirtschaftsjahr 1949/50. *Statist. Monatsh. Württemberg-Baden* 4:302-303. Sept. 1950. 265 St24

#### Inflation

25047 FOSTER, C. J. War and inflation; farmers concerned over threats to America's national welfare. III. *Agr. Assoc. Rec.* 28(12):4-7. Dec.1950. 6 IL62

25048 PARSONS, F. L. What inflation means to the stockman. *West. Livestock Rptr.* 11(21):30. Jan.17,1951. 286.85 W523

#### Insurance

25049 BAILEY, F. What to do about social security. *Country Gent.* 121:21,51-54. Jan.1951. 6 C833

25050 BLONDELLE, R. La sécurité sociale agricole. *Bas-Rhin Agr.* 5:617-618. Dec.23,1950. 14 B29

25051 CARTER, F. Social security and the farmer. *Okla. Farm Bur. Farmer* 2(6):7,10. Nov.1950. 275.293 Ok4

25052 CASTER, C. A. More information about social security for farm workers. *Eggsaminer* 27(12):3. Dec. 1950. 286.85 Eg32

25053 CHAPUIS, B. A. Financement et construction de la sécurité sociale agricole. I. Le problème du financement. *Monit. Agr.* 3(138):3. (To be cont.) Dec.3,1950. 14 M744

France.

25054 CHATER, S. W. Insurance against crop failure. *Primary Prod.* [Cape Town] 26(44):13. Dec.15,1950. 281.8 P93

Union of South Africa.

25055 COLLINS, J. H. Now social security. *West. Grower & Shipper* 22:5. Dec.1950. 280.38 W52

For farm labor.

25056 DAVALOS, M. Seguro social obligatorio rural. *Rev. Nac. de Agr.* [Bogotá] 44(546):25-27. Oct.1950. 9.4 R32

Colombia.

25057 ELLICKSON, J. C. Hail insurance on growing crops in the United States. *Agr. Finance Rev.* 13:32-40. Nov.1950. 1.9 Ec78Af

25058 ELLINGTON, F. B. Social security for farmers. *Grain Prod. News* 3(7):10. Dec.1950. 286.81 G764

25059 FABBRI, A. Experimental contributions to the estimation of hail damage. (In Italian.) *Riv. di Estim. Agr. e Genio Rur.* 13:621-624 bis,625-635. Dec.1950. 281.8 R522

For purposes of insurance in Italy.

25060 FREEMAN, E. E. What social security means to you. *Cow Country* 78(6):15. Dec.15,1950. 49 C83

25061 GALLONI, G. Hail insurance. (In Italian.) *Riv. di Estim. Agr. e Genio Rur.* 8:538-546. Oct.1950. 281.8 R522

Italy.

25062 GOBBATO, C. Payment to grapegrowers for the inclement weather. (In Portuguese.) *Lav. Arroz.* 4(45):25-27. Sept.1950. 59.8 L39

Brazil.

25063 HARVEY, G. R. New Social Security Law interpreted for farmers. *Hoosier Farmer* 35(10):11. Oct.1950. 280.82 H76

25064 LEACH, E. S. W. Responsibility of the dairyman under the new Social Security Act. *Calif. Dairyman* 30(24):16-17. Dec.30,1950. 44.8 C12

25065 MANCHESTER, A. W. Social security for farm workers. *Maine. Agr. Col. Ext. C.* 263,6 p.-folder. Dec.1950. 275.29 M281C

25066 NICHOLAS, R. B., and HAYWARD, W. B. Social security for farm workers. *Col. Rancher & Farmer* 4(23):5. Dec.9,1950. 6 C714

25067 NICTER, A. M. Social security for farm workers. *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1950:1-2. Nov.27,1950. 275.29 In2Em

25068 PETITLAURENT, V. Le nouveau régime des assurances sociales agricoles. *Rev. de Lég. Agr.* 3:177-181. (To be cont.) Oct.1950. 281.8 R325

France.

25069 PRAX, A. Réforme des assurances sociales agricoles. *Prog. Agr. et Vitic.* 1950:372-377. Dec.17/24, 1950. 14 P94

25070 SANDERS, J. P. Methods of prepayment for health services in rural areas. *Natl. Conf. Rur. Health. Annu. Mtg.* 5:7-9. 1950. 449.9 N214

25071 SEWALL, J. S. Social security for your farm workers. *Nebr. Farmer* 92(23):18-19. Dec.2,1950. 6 N27

25072 SLUSHER, H. E. Methods of prepayment for health services in rural areas. *Natl. Conf. Rur. Health. Annu. Mtg.* 5:18-19. 1950. 449.9 N214

25073 TURNER, F. Social security includes farm workers, too. *Breeder-Stockman* 12(8):13-14. Jan.1951. 49 V81

25074 UHLIRS, J. Die land- und forstwirtschaftlichen sozialversicherungsträger im jahre 1948. *Landarb.-Arch.* 5:406-414. Oct./Dec.1950. 283.8 L23

Austria.

25075 U. S. FEDERAL CROP INSURANCE CORPORATION. Cotton sales handbook; commodity coverage. Washington,1950. 21 p. 1.952 C826

25076 U. S. FEDERAL CROP INSURANCE CORPORATION. Cotton sales handbook; monetary coverage. Washington,1950. 21 p. 1.952 C824

25077 U. S. FEDERAL CROP INSURANCE CORPORATION. Multiple sales handbook. Washington,1950. 22 p. 1.952 Sa35

Crop insurance.

25078 U. S. FEDERAL CROP INSURANCE CORPORATION. Report of the manager, 1949/50. Washington,1950. 43 p. 1 C88R

#### Taxation

25079 ALLISON, J. Taxation as applying to livestock. *Farming News & No. Brit. Agr.* 102(48):10-11. Dec.1, 1950. 10 N82

25080 BAKER, R. H. Uncle Sam's "cut" will be larger this year; 1951 tax rate is even higher. *Ohio Farmer* 206(11):3,22-23. Dec.2,1950. 6 Oh3

25081 BARTON, W. E. Your income tax; some suggestions regarding procedure in Federal income tax cases of livestock breeders. *Amer. Hampshire Herdsman* 26:30,44,102-103. Jan.1951. 46.8 Am33

25082 BECKMAN, H. J. Your income tax. *West. Dairy J.* 7(3):16,18. Jan.1,1951. 44.8 W524

25083 BEEBE, R. W. Farmers' income tax problems. *Taxes* 29:43-49. Jan.1951. 284.58 T195



25084 BURCH, D. W. Averaging farm incomes for income tax purposes. *Agr. Econ. Res.* 3:18-22. Jan. 1951. 1 Ec7Agr

25085 BURCH, D. W. Rural homestead and veterans' exemptions in property taxation. *Agr. Finance Rev.* 13: 15-23. Nov.1950. 1.9 Ec78Af

25086 CRIPE, R. W. Farmers with complete farm records need not fear their tax collectors. *Hoosier Farmer* 35(10):7. Oct.1950. 280.82 H76

25087 CROUSE, E. F. Know your rights on income tax. *Successful Farming* 48(12):33,82,84. Dec.1950. 6 Su12

25088 DENMARK. STATISTISKE DEPT. Indkomst- og formueansættelserne til staten for skatteåret 1949/50. Revenus et fortunes servant de base de la taxation d'état 1949/50. Denmark. Statist. Dept. Statist. Meddel. (ser.4) 142(2),97 p. 1950. 257.1 St2M

Table of contents and some tables also in French. Includes rural districts.

25089 DIEL, J. Steuergerechtigkeit! Weinbau 5: 517-518. Nov.5,1950. 390.8 W432 Germany.

25090 ELWOOD, E. M. Figuring your income tax. *Mich. Farmer* 214:413,432. Dec.16,1950. 6 M58

25091 GRAY, B. The educational job of the State Agricultural Planning Committee with regard to the reappraisal program in Colorado. In National Conference on Land Classification, 2, Great Falls, Montana, 1950. Proceedings, p.53-55. Chicago?1950. 282 N21

25092 HALL, I. F. The job of reporting your income tax for '50. *Dairyland News* 20(12):5,10. Dec.1950. 280.28 W752

Farmers.

25093 HANSEN, J. S. Land assessment in the focus. (In Danish.) *Samvirke [København]* 23(21):1-3. Nov.1, 1950. 280.28 B332

25094 HART, S. H. The capital gains question may be decided. *Shorthorn World* 35(19):24-26. Jan.10,1951. 43.8 Sh8

Income tax on livestock returns.

25095 HART, S. H. Livestock and ranch income tax problems; a report of progress in clarifying livestock tax regulations and rulings. *Shorthorn World* 35(19):5-6. Jan.10,1951. 43.8 Sh8

25096 HAYGOOD, T. F. Recent tax changes and their significance to agriculture. *Agr. Finance Rev.* 13:41-49. Nov.1950. 1.9 Ec78Af

25097 HENGL, F. Weinsteuer-verhandlungen abgeschlossen. *Österr. Weinztg.* 5:245-246. Dec.24,1950. 390.8 Os7

25098 HULBERT, L. S. Patronage refunds and farmers' income taxes. *Grainmen's Mirror* 28(12):15-16. Dec.1950. 286.81 G76

25099 LEIBFRIED, E. Wann kommt der endgültige lastenausgleich? *Württemb. Wehnl. f. Landwirt.* 117: 1005-1006. Nov.4,1950. 18 W96

25100 MAGILL, R., and MERRILL, A. H. The taxable income of cooperatives. *Mich. Law Rev.* 49:167-190. Dec.1950. Legal Libr.

25101 MEREDITH, W. R. Here's a study-worthy income tax article: How the Revenue Act of 1950 affects farmer and ranchman. *Sheep & Goat Raiser* 31(3):34,36. Dec.1950. 45.8 Sh3

25102 MONATT, S. M. 1951 farmers income tax on 1950 income, including filled-in forms, check lists, examples. *New York, Com. Clearing House*, 1950. 160 p. 284.59 M74

25103 MORRIS, A. Pay only tax you owe. *Prog. Farmer, Tex. Ed.* 65(12):22-23. Dec.1950. 6 T311

Income tax regulations for farmers.

25104 NES, I. Taxation in rural districts. (In Norwegian.) *Skog- og Landarb.* 1950:156. Oct.1950. 283.8 Sk5

Income in Norway.

25105 NICHTER, A. M. Pointers for 1951 income tax reports. *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1950:6-8. Dec.28,1950. 275.29 In2Em

25106 PASTORINI, F. M. Technical characteristics of the inheritance tax on land. (In Italian.) *Cron. Econ.* 91:15-18. Oct.15,1950. 280.8 C882

Italy.

25107 PHILIPP, P. E. 1951 [income] tax guide for Hawaiian farmers. *Hawaii. U. Agr. Ext. C.* 259,rev., 30 p. Nov.1950. 275.29 H312Ac

25108 PORTUGAL. INSTITUTO NACIONAL DE ESTADÍSTICA. Anuário estatístico das contribuições e impostos 1949; Annuaire statistique des contributions et impôts 1949. Lisboa, 1950. 384 p. 264 P833Ae

Includes land taxes.

25109 ROGGE, K. Weiterer abbau der zuckersteuer erforderlich. *F. O. Licht. Internatl. Zuckerber. Ber.* 89: 115-116. Oct.31,1950. 66.8 L61A

25110 ROWE, J. Z. Income tax filing can be easy to do. *N. Mex. Agr. Col. Ext. News* 30(12):3. Dec.1950. 275.29 N463Ex

25111 SAJA, F. Appraisal of irrigation water in relation to the progressive inheritance tax. (In Italian.) *Riv. di Estimo Agr. e Genio Rur.* 13:559-565. Dec.1950. 281.8 R522

Italy.

25112 SANDERSE, P. D. The tax on the transference of a fruit farm from father to son. (In Dutch.) *Fruiteelt* 40:811-812. Oct.19,1950. 86 N28

25113 SCHIETHART, L. J. The field inventory and taxation. (In Dutch.) *Nederland. Heidemaatsch. Tijdschr.* 61:372-374. Dec.1950. 12 N282

Netherlands.

25114 SIJTSMA, P. Tax revision 1950 and agriculture. XII. (In Dutch.) *Boer en Tuinder* 4(203):6. Dec.9, 1950. 12 B632

Also in *Friesch Landbbl.* 47:722. Nov.17,1950. 12 F91

25115 SWENDSEID, R. T. Good bookkeeping—accurate records can help you get a loan, save income tax dollars. *West. Dairy J.* 7(3):26. Jan.1,1951. 44.8 W524

25116 URBANO FERNÁNDEZ, R. Consideraciones generales sobre tasaciones. *Argentina. Dir. Gen. de Tierras. Rev.* 1950(2):1-6. Mar./Apr.1950. 282.9 Ar3R

Rural land.

25117 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Farmer's 1950 income tax. *Wis. Agr. Col. Ext. Spec. C.* 12,24 p. Nov.1950. 275.29 W75S

## AGRICULTURAL LABOR AND WAGES

25118 ALBRECHT, R. Profit sharing—will it work? Both parties can benefit from a sensible bonus system. *Prairie Farmer, Gen. Ed.* 122(24):6. Dec.16,1950. 6 P883

25119 ALEKSANDROV, L. Time sheet in threshing. (In Russian.) *Mashinno-Traktornafä Sta.* 10(8):28-32. Aug.1950. 58.8 M11

N. N. Bredfuk's method of work management.

25120 ALEKSEEV, A. Fundamental labor indexes of tractor brigades maintaining cost-accounting records. (In Russian.) *Mashinno-Traktornafä Sta.* 10(8):38-40. Aug.1950. 58.8 M11

At machine-tractor stations.

25121 BEKY, L., HAMAR, N., and MOLNAR, B. An erdárbeitekn durchgeführte arbeits- und ernährungsphysiologische studien. (In Hungarian.) *Agrotudo. Egyetem Kert- és Szőlőgazdaságtudo. Karának. Közlem.* 13:30-51. 1949. 80 B85

German summary. Hungary.

25122 BROEKHUIS, E. Labor productivity on farms. (In Dutch.) *Netherlands. Landbouwlichtingsdienst. Maandbl.* 7:413-422. Oct.1950. 12 N383M

25123 CLARK, C. C. Farmers unite to solve labor troubles. *Wash. Farmer* 75:898. Dec.21,1950. 6 R151

25124 COMAN, E. S. Farm labor—domestic and foreign. (Sum.) *West. Grower & Shipper* 22:12. Dec. 1950. 280.38 W52

Also in *West. Grower & Shipper* 22(2):19,22-23,26. Jan. 1951. 280.38 W52

25125 CORFIELD, F. V. Farm wages should be comparable with those of industry, because our workers are skilled men. *Farmer & Stock-Breeder* 64:3193. Dec.12, 1950. 10 F228

In Great Britain.

25126 DENMARK. LANDØKONOMISKE DRIFTSBUR. Undersøgelser over landbrugets driftsforhold, periodiske beretninger. V. Arbejdsforbruget i danske landbrug 1946-49. [Farm management investigations. Periodical reports. V. Labor consumption in Danish agriculture 1946-49.] *København, 1950.* 54 p. 11 D414P

25127 DØSSING, P. The farm population and the farm labor supply. (In Danish.) *Tidsskr. f. Landøkon.* 1950: 503-516. (To be cont.) Oct.1950. 11 T43



- 25128 ERICSON, F. L. Labor and traction requirements in agriculture. (In Swedish.) Sweden. Lantbrstyr. Meddel. Ser. C: Rationaliseringsavd. 5:47-50. 1950. 11 Sw3Mr
- 25129 FRITSCHI, M. Vereinfachung der bäuerinnenarbeit. Ed. 2. Schrifolge. über Landarbeit. In der Schweiz. 3,160 p. 1950. 17 Sch96
- 25130 FUJITA, Y. Noka fukugyo tikuhon [Reading book of the subsidiary occupation for farming family]. Tokyo, Jitsugyo no Nihon Sha, 1949. 267 p. 381.2 F95
- 25131 GENNARI, G. Toward new labor relations. VII. (In Italian.) Agr. Ital. 1:602-606. Dec.1, 1950. 16 Ag822  
English summary.
- 25132 GHOSH, A., and GUPTA, S. Position of farm labour in Contal. Indian J. Agr. Econ. 5(2):50-53. Aug. 1950. 281.8 In2
- 25133 GOLDKUHL, A. Observations on work simplification in fur farming. (In Danish.) Dansk Pelsdyravl 13:259-261. Dec.1, 1950. 412.628 D23
- 25134 GREEN, W. Our own forgotten people; migrant workers denied a square deal. Amer. Fed. 57(12):20-22, 30. Dec.1950. 283.8 Am32
- 25135 GUSTAFSSON, L. Arbetskraften som produktionsfaktor i svenskt jordbruk [Labor as a production factor in Swedish agriculture]. Uppsala, Almqvist & Wiksell, 1949. 317 p. Ref. 283 G97  
English summary.
- 25136 GYNN, G. The great wages muddle. Farmer & Stock-Breeder 64:3035. Nov.28, 1950. 10 F228  
Farm wage situation in England and Scotland.
- 25137 IAROV, A. For all brigades—a time sheet. (In Russian.) Mashinno-Traktornafä Sta. 10(8):22-25. Aug.1950. 58.8 M11  
At machine-tractor stations.
- 25138 KALLBRUNNER, H. Die landarbeiterfrage in Österreich. Landwirt. Jahrb. f. Bayern 27(5/6):39-50. Ref. Sept./Oct. 1950. 18 L24
- 25139 KEHR, H. Der kontrollangestellte und sein recht. Kontrollangestellte, p.2-3. In Unser Milchvieh. Aug. B/C 2(10). Oct.1950. 43.8 Un72  
Germany.
- 25140 LANDSORGANISATIONEN I SVERIGE. LANDSSEKRETARIATET. Berättelse för år 1949 [Report for the year 1949]. Stockholm, 1950. 315 p. 283.9 L23  
Includes farm and forest labor.
- 25141 LENINGRADSKOE OBLASTNOE UPRAVLENIE SEL'SKOGO KHOZ'IASTVA. Primernye normy vyrabotki i rasfenki v trudodnakh osnovnykh sel'skokhoz'iaistvennykh rabot v kolkhozakh [Exemplary production norms and estimation in work days of the principal tasks on collective farms]. Leningrad, Leningradskoe Gazetno-Zhurnal'noe i Knizhnoe Izd-vo, 1950. 69 p. 283 L542
- 25142 LUK'IANOV, A. D. Work management in grape culture. (In Russian.) Sad i Ogorod 1950(9):35-37. Sept. 1950. 80 Sa13
- 25143 MEDICI, G. Fixed wages and the extension of contracts. (In Italian.) Agr. Ital. 1:607-608. Dec.1, 1950. 16 Ag822  
English summary.
- 25144 MEJIA, M. Wages in coffee production. Coffee & Tea Indus. 73(11):45. Nov.1950. 389.8 Sp4  
Latin America.
- 25145 MONDINI, P. "Just cause" in individual labor contracts of fixed wage-earners in agriculture. (In Italian.) Rinascita Agr. 5(13):2. May 1, 1950. 281.8 R47  
Italy.
- 25146 MOORE, C. B. Agricultural labor. West. Grower & Shipper 22(2):6-7, 17. Jan.1951. 280.38 W52
- 25147 PEDERSEN, K. Work simplification in nurseries. (In Danish.) Gart.-Tid. 66:527-529. Nov.29, 1950. 80 G192
- 25148 RIVERA, V. The shepherd in social life. (In Italian.) Allevatore 6(32/33):1, 7. Aug.20, 1950. 49 AL55  
Italy.
- 25149 SAKHAROV, A. Gitalov's brigade works according to time sheet. (In Russian.) Mashinno-Traktornafä Sta. 10(8):25-28. Aug.1950. 58.8 M11  
At Malo-Pomoshnianskafä Machine-Tractor Station.
- 25150 SCOTTON, M. Transportation on a Valdarno farm. (In Italian.) Riv. di Estimo Agr. e Genio Rur. 8:468-472. Oct.1950. 281.8 R522  
Time studies transporting various products by draft cattle.
- 25151 SEISE, A. Some noteworthy observations regarding potato-digging. (In Finnish.) Teho 1950(9):40-42. 20 T98  
English summary, p. 58.  
Labor saving methods.
- 25152 SHIFFERMILLER, W. E. A time and motion sanitation study. Ice Cream Field 56(5):34, 79, 92-94. Nov.1950. 389.8 Ic23  
In dairy plants.
- 25153 STORNES, A. Observations on the labor problem and agricultural production. VIII. (In Norwegian.) Landbruksliden 56:788-790. Oct.4, 1950. 11 L236  
Norway.
- 25154 SWEHN, J. J. Zielsetzung und wirken des gesamtdeutschen arbeitskreises der land- und forstwirtschaft. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:6-7. Sept.1950. 18 D4822  
Russian Zone of Germany.
- 25155 TOLKANITSA, A. Industrial methods of work—for machine-tractor stations. (In Russian.) Mashinno-Traktornafä Sta. 10(8):1-4. Aug.1950. 58.8 M11
- 25156 U. S. S. R. VERKHOVNYI SOVET. PREZIDIUM. Ukaz Prezidiuma Verkhovnogo Soveta SSSR; o prisvoenii zvanifa Gerofä Sotsialisticheskogo Truda i nagrazhdenii ordenami i medalfämi SSSR kolkhoznikov, rabotnikov MTS i sovkhovov za poluchenie vysokikh urozhayev zernovykh kul'tur v fselom ... v 1950 - 1951 godakh [Decree of the Presidium of the Supreme Council of U. S. S. R.; on awarding honors of heroes of Socialist Labor and rewarding with orders and medals of U.S.S.R. collective farmers, workers of machine-tractor stations and state farms for obtaining high yields of grain [and other field crops] ... in the years of 1950-1951. Moskva, Sel'khozgiz, 1950. 46 p. 283 Un39992U
- 25157 U. S. PRODUCTION AND MARKETING ADMIN. The agricultural manpower supply situation. Washington? 1950. 3 p. 1.956 A2Ag829
- 25158 YEAMAN, A. F. Who can end the 6s. muddle? Farming News & No. Brit. Agr. 102(48):3. Dec.1, 1950. 10 N82  
Farm wage situation, Great Britain.

#### AGRICULTURE - SITUATION, POLICIES AND PROGRAMS

- 25159 ABEL, P. M. Agricultural stock taking [Canada]. Country Guide 70(1):7, 21-22. Jan.1951. 7 G76
- 25160 ACLAND, (SIR R. Fresh hopes in Nigeria; 'he colony's two great needs are more cattle and more tractors. Field 196:954-955. Dec.2, 1950. 10 F45
- 25161 ARNIM, W. VON. Strukturwandlungen und nachkriegsprobleme der wirtschaft Dänemarks. Kiel. U. Inst. f. Weltwirt. Kieler Studien 9, 65 p. 1950. 280.9 K54K  
Includes agriculture.
- 25162 AZUMAHATA, S. Noson no jittai [Actual conditions of the agricultural districts]. Tokyo, Sangensha, 1950. 2 v. 281.183 Az8
- 25163 BARRAZA QUIROGA, O. Habla sobre importantes problemas agropecuarios. Agrario 15(416):4-6. Sept.1950. 9.3 Ag85  
Chile.
- 25164 BAUMGARTEN, O. Ein weiterer schritt zur demokratisierung des dorfes. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:169. Dec.1950. 18 D4822  
Russian Zone of Germany.
- 25165 BERG, C. VAN DEN. Some important aspects of the Netherlands agricultural policy. (In Dutch.) Econ. Statis. Ber. 35:977-979. Dec.6, 1950. 280.8 Ec722  
English summary, p. 971.
- 25166 BERG, M. Effects of mechanization on the economic long range planning in agriculture. (In Swedish.) Sweden. Lantbrstyr. Meddel. Ser. C: Rationaliseringsavd. 5:51-55. 1950. 11 Sw3Mr
- 25167 BEUKENKAMP, R. L. American agriculture since 'Korea, June 25.' (In Dutch.) Landb. Wereld-nieuws 5:415-418. Nov.16, 1950. 12 L237
- 25168 BIERMANN, H. Der Fünfjahrplan und der bäuerliche betrieb. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:131-132. Nov.1950. 18 D4822  
Russian Zone of Germany.
- 25169 BONATO, C. Economic problems of Italian agriculture. III-IV. (In Italian.) Voce dei Campi 5(7):1; (10):1. Mar.20, Apr.30, 1950. 16 V852



- 25170 BOSE, S. R. Some facts about agriculture in Bihar. *Indian J. Agr. Econ.* 5(2):45-50. Aug. 1950. 281.8 In2
- 25171 BREMRIDGE, P. Agriculture and politics; party records and policies. London? 1950. 59 p. 281.171 B752
- 25172 BRÉTIGNIÈRE. Les récoltes de 1950 et la situation agricole. *Acad. d'Agr. de France. Compt. Rend.* 36:541-546. Oct. 11/18, 1950. 14 P215Bc  
Includes discussion.
- 25173 BROWNE, G. World food problems; Britain's agricultural production, and plans to increase it, considered in the light of international food and currency problems. *Farmer & Stock-Breeder Ybk.* 1951:53-55. 49 F22
- 25174 BRYANT, H. E. Our industry has a future if— (Sum.) *West. Grower & Shipper* 22:11. Dec. 1950. 280.38 W52
- 25175 BRYSON, J. R. The American farmer and the emergency in Korea. *Farm Life Mag.* 1(2):7, 16. Sept. 1950. 6 F22126
- 25176 BUESS, O. Ein schweizer landwirt erlebt Dänemark. *Übersicht* 1(2):25-27. Oct. 1, 1950. 18 Ub3
- 25177 BUSTAMANTE, J. DE. El Presidente de la Cámara Oficial Sindical Agraria de Sevilla, habla para Cooperación. *Cooperación [Madrid]* 104:16-17. Oct. 1950. 280.28 C7875  
On agricultural problems.
- 25178 CÁCERES D., F. Problemas yungueños. *Cam-po [La Paz]* 4(38/39):23, 25, 27. June/July 1950. 9.1 C15
- 25179 CARTER, R. E. Opportunity unlimited. *Pa. Grange News* 47(9):2-3, 11. Dec. 1950. 6 P38  
Agricultural problems and how to meet them.
- 25180 CASPARÉ, H. E. Denmark. (In Dutch.) *Nederlandse Ver. tot Bevord. der Biol.-Dyn. Landb-methode. Vruchtbare Aarde* 8:82-86. Sept. 1950. 80 N28  
Includes agriculture.
- 25181 CASTRO SILVA, J. M. Agricultura, selvicul-tura, ganadería y pesca. Managua. *Cám. Nac. de Com. e Indus. B.* 16(165):25-28. (Cont.) Sept./Oct. 1950. 287 M316  
Nicaragua.
- 25182 COLLINS, G. P. Agricultural policy and the general economy. *Sowest. Social Sci. Q.* 31:191-196. Dec. 1950. 280.8 So82
- 25183 CONGRÈS INTERNATIONAL DES INDUSTRIES AGRICOLES, 7th, Paris, 1948. [Rapports], v. 2. Paris, 1950. 284 p. 388 C765
- 25184 COSLINE, H. The 1951 farm outlook. *Amer. Agr.* 148(1):1, 5, 7. Jan. 6, 1951. 6 Am3
- 25185 COWEN, M. M. The farmer is the backbone of the Nation. *Agr. & Indus. Life* 12(11):6, 39. Nov. 1950. 25 Ag8  
Philippine Republic.
- 25186 DANTWALA, M. L. Obstacles to Grow More Food. *Indian J. Agr. Econ.* 5(2):53-57. Aug. 1950. 281.8 In2
- 25187 DANTWALA, M. L., and GUPTE, R. G. Ob-stacles to the Grow More Food Campaign (Dhulia Taluka). *Indian J. Agr. Econ.* 5(2):87-105. Aug. 1950. 281.8 In2
- 25188 DESAI, M. B., and SHAH, C. H. Obstacles to 'Grow More Food.' *Indian J. Agr. Econ.* 5(2):57-72. Aug. 1950. 281.8 In2
- 25189 DIESSLIN, H. G., and REAGAN, J. P. A five billion dollar industry. *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1950:1-2, 5. Dec. 28, 1950. 275.29 In2Em  
Agriculture in Indiana.
- 25190 EINARSSON, P. The farm law. (In Icelandic.) *Freyr* 45:291-295. Nov. 1950. 11 F89
- 25191 EINO KENKYU KAI. Zosan no noji sozan 400 dai [Information for 400 questions of the additional in-crease in agricultural cultivation]. Tokyo, Toyo-kan, 1950. 223 p. 34.3 E16
- 25192 FABRICIUS, H. Agriculture in 1950. (In Danish.) *Tolvmandsbladet* 22:353-361. Dec. 1950. 11 T58  
Denmark.
- 25193 FALCONER, J. I. Mobilization—economic implications. *Coop. Dairy Farmer* 30:3. Oct. 1950. 280.28 C7825  
Effects on agriculture.
- 25194 THE FARM outlook for 1951. *Fed. Reserve Bank Chicago. Business Cond.* 1950:1-9. Nov. 1950. 284.8 F31Ch
- 25195 FAUSER, J. Der bauer und die wirtschafts-planung. *Deut. Landwirt. mit Mitt. der Deut. Landwirtge-sell.* 1:70-71. Oct. 1950. 18 D4822  
Russian Zone of Germany.
- 25196 FERRU, M. L'agriculture en Guyane fran-çaise. *Marchés Colon.* 6:2687-2690. Nov. 11, 1950. 286.8 M33
- 25197 FESTA-CAMPANILE, P. Life is reborn in Sila. (In Italian.) *Coltivatore* 6(43):1-2. Nov. 23, 1950. 16 C722  
Agricultural policy.
- 25198 FINDLEN, P. J. What's ahead for agriculture. American agriculture and the Marshall Plan. *Conn. Veg. Growers' Assoc. Proc.* 37:17-24. 1949. 75.9 C76
- 25199 GADDI, S. The two bulls of Dr. B. (In Italian.) *Africa* 5:279-281. Nov. 1950. 280.8 Af2  
E. C. A. aid in Somaliland.
- 25200 GALGANO, E. Agriculture, industry, trade in Denmark. (In Italian.) *Cron. Econ.* 91:19-23. Oct. 15, 1950. 280.8 C882
- 25201 GARVER, W. G. The farmer and the rest of us. (Excerpts.) *Grain & Feed J. Consolidated* 105(10):11-12. Nov. 22, 1950. 298.8 G762  
Agricultural policy.
- 25202 GARWOOD, J. Los agricultores de los Estados Unidos. *Agrario* 15(417):31-32. (To be cont.) Oct. 1950. 9.3 Ag85  
Agriculture.
- 25203 GASPARETTO, J. Depressed region of the Po Delta and the effects of the agrarian reform? (In Italian.) *Rass. Econ. del Polesine (n.s.)* 4:188-191. Sept./Oct. 1950. 280.8 R183  
Reclamation and agricultural policy.
- 25204 GENERAL information about Argentina. Com-ments *Argentine Trade* 30(5):10-81. Dec. 1950. 287 C359C  
Includes agriculture.
- 25205 GISLASON, S. Various changes and farming. (In Icelandic.) *Freyr* 45:274-277. Oct. 1950. 11 F89
- 25206 GLOVER, SIR H. Notas sobre el Perú. *Agronomía [Lima]* 15(63):73-79. Sept./Oct. 1950. 9.8 Ag83
- 25207 GONZALEZ TAFUR, O. B. Notas sobre la Corporación Peruana del Amazonas y su papel en el desarrollo de la Hilea amazónica. *Cong. Internatl. des Indus. Agr. [Rapports]* 1948(2):101-105. 1950. 388 C765
- 25208 GREAT PLAINS AGRICULTURAL COUNCIL. Proceedings held at University of Wyoming, Laramie, Wyoming, July 27, 28, 29, 1950. *Laramie, 1950.* 102 p. 282.9 G7992
- 25209 GREAVES, J. B. Australia; economic and commercial conditions in Australia, November 1949. *London, Bd. Trade, 1950.* 155 p. (Overseas Econ. Sur-veys) 271 G79  
Includes agriculture.
- 25210 GREVE S., G. Alessandri y la agricultura. *Agr. Austral* 18:437-439. Oct. 1950. 9.3 Ag842  
Chile.
- 25211 GUARDIOLA, L. La agricultura y la floricul-tura de la Maresma. *Cám. Ofic. Sind. Agr. de Barcelona.* B. 5:255-257. (To be cont.) Oct. 1950. 15 C14
- 25212 GUSLER, G. Farm outlook for 1951. *Nebr. Farmer* 93(1):8. Jan. 6, 1951. 6 N27
- 25213 HERTZBERG, J. Agriculture in Yugoslavia. (In Swedish.) *Lantmannen* 34:793-794. Oct. 14, 1950. 11 I.234
- 25214 HJELM, L. Economic long range planning in agriculture. (In Swedish.) *Sweden. Lantbrstvr. Meddel. Ser. C: Rationaliseringsayd.* 5:37-46. 1950. 11 Sw3Mr
- 25215 HOBSON, K. Keeping up on the farm outlook. *Wash. State Col. Ext. C.* 167, 6 p.-folder. Nov. 30, 1950. 275.29 W27C
- 25216 HOPPER, W. C. Just how important is agricul-ture anyway? *O. A. C. Review* 63:70, 116. (Cont.) Nov. 1950. 276.8 On8
- 25217 HUNWALD, A. La documentation dans les in-dustrie agricoles. (Sum.) *Cong. Internatl. des Indus. Agr. [Rapports]* 1948(2):115-117. 1950. 388 C765
- 25218 HUSS, B. African agriculture. *Transkelan Ter. Agr. Dept. Umcebisi Womlimi Nomfuyi* 27(2):40-41; (3)36-41; (4):33-34. (Cont.) May-Nov. 1950. 24 T684
- 25219 ILLANES ABBOTT, E. Habla sobre política agrícola y ganadera. *Agrario* 15(417):4-5. Oct. 1950. 9.3 Ag85  
Chile.



- 25220 ITALIAN agriculture and ERP. II. Foreign Agr. 14:277-283. Dec.1950. 1.9 Ec7For
- 25221 JOHNSON, P. C. What will happen in 1951? *Prairie Farmer*, Gen. Ed. 123:6. Jan.6,1951. 6 P883
- 25222 KLINE, A. B. World situation challenges American farmers. (Sum.) *Grain & Feed Rev.* 40(4):8. Dec.1950. 280.28 C78
- 25223 KNUDSON, J. K. Impact of mobilization on our industry. (Sum.) *West. Grower & Shipper* 22:10-11. Dec.1950. 280.38 W52
- 25224 LARUE, P. Le Plan Marshall et l'agriculture française. *Feuilles Agr.* 7(65):66-73. Oct./Dec.1949. 24 F43
- 25225 LESPERANCE, R. Les conditions de l'agriculture dans le New-Hampshire. *Terre de Chez Nous* 22(47):6,23. Jan.17,1951. 7 T27
- 25226 LOMMEZ, J. L'agriculture aux États-Unis après la guerre. *Rev. de l'Agr.* 3:1068-1084. Oct.1950. 13 R322
- English summary.
- 25227 LYNN, C. W. Agricultural betterment in backward areas in the Colonial Empire. *Brit. Agr. B.* 3:143-147. 1950/51. 10 B776
- 25228 MAGALHAES, V. P. DE. Agricultural production. (In Portuguese.) *Cent. de Estud. Econ. Rev.* 1950 (10):126-135. 280.9 C333
- The situation in Portugal.
- 25229 MASLENNIKOV, V. A year of great changes in the Chinese People's Republic. (In Russian.) *Voprosy Ekon.* 1950(9):40-55. Sept.1950. 280.8 V89
- Includes agriculture.
- 25230 MESU, F. P. Projects for the improvement of agriculture in Drenthe in the past, present, and future. (In Dutch.) *Drents Landtbl.* 31(47):2-4. Dec.2,1950. 12 D812
- 25231 MEWIS, M. Der produktionswert in der landwirtschaft. *Statist. Praxis* 5:157-160. Oct.1950. 251.8 St25
- Estimation.
- 25232 MEZERI, A. G. The farm problem—No. 1 to UN's future. *Natl. Union Farmer* 28(12):8. Dec.1950. 281.8 N212
- 25233 MICHET, Situation, dans ses grandes lignes de l'agriculture en Tunisie. *Colon Franç. de Tunisie* 60 (2174):1-3. Dec.2,1950. 24 C712
- 25234 MIURA, T. Shin nogyo hoten [Handbook for new agriculture]. Tokyo, Nogyo Hotensha, 1950. 629 p. 30.3 M69
- 25235 MIYADE, H. Toshi kingo nogyoron [Agriculture in the town and neighbouring districts]. Tokyo, Jitsugyo No Nihon Sha, 1950. 161 p. 34.3 M692
- 25236 MONTGOMERY, G. Farm outlook for 1951. *Kans. Farmer* 87(24):6,10. Dec.16,1950. 6 K13
- 25237 NETHERLANDS. MINISTERIE VAN LANDBOUW, VISSERIJ EN VOEDSELVOORZIENING. Verslag over de landbouw in Nederland over 1948 [Report on agriculture in the Netherlands in 1948]. Netherlands. Dir. van den Landb. Verslagen en Meded. 3,503 p. 1950. 12 N38
- 25238 NEW YORK STATE COLLEGE OF AGRICULTURE. DEPT. OF AGRICULTURAL ECONOMICS. 1951 New York economic handbook: agricultural outlook. N. Y. Agr. Col. A. E. 764,55 p. Dec.1950. 281.9 C81
- 25239 NIEHAUS, H. A redistribution of the agricultural production centers; the European problem in agriculture. (In Dutch.) *Groenten en Fruit* 6:275. Oct.19, 1950. 80 G89
- 25240 NILSSON, A. S. My boss has his car washed; about working in an American machine station. (In Swedish.) *Lantmannen* 34:913-914. Nov.25,1950. 11 L234
- Agriculture in Pennsylvania.
- 25241 OKLAHOMA PRODUCTION ADJUSTMENTS COMMITTEE. 1951 farm production prospects in Oklahoma. Okla. Agr. Expt. Sta. Mimeog. C. M-205,26 p. Nov.1950. 100 Ok4M
- U. S. Bureau of Agricultural Economics cooperating.
- 25242 OTERO, L. Datos y comentarios interesantes sobre la agricultura italiana. *Spain. Inst. de Estud. Agro-Sociales. An.* 1:109-112. 1950. 15 Sp16
- 25243 PARKER, J. R., TUCKER, W. B., and SVINTH, J. F. Agriculture in southern Oregon. *Oreg. Dept. Agr. Agr. B.* 168:3-7. Dec.1950. 2 Or3
- 25244 PARSONS, F. L. Strong demand brightens farm outlook. *Fed. Reserve Bank Minneapolis. Mon. Rev.* 9th Dist. Agr. & Business Cond. 10:114-115,120. Nov.30,1950. 284.8 F31M
- 25245 PERÓN, J. D., PRES. ARGENTINE REPUBLIC. El gobierno y los problemas agropecuarios. Buenos Aires, 1949. 28 p. 281.161 P42
- 25246 PISSOT, P. L'avenir de l'agriculture égyptienne. *Feuilles Agr.* 7(64):56-61. July/Sept.1949. 24 F43
- 25247 POMAR, L. M. Mis impresiones sobre Italia. Balearic Isl. Diputación Prov. B. de Agr. 73:3. Oct.1950. 15 B19
- Agricultural.
- 25248 PURDUE UNIVERSITY. AGRICULTURAL ECONOMICS DEPT. Outlook for Indiana agriculture in 1951. *Hoosier Farmer* 35(10):14,38. Oct.1950. 280.82 W76
- 25249 PURVES, C. M., and HOBBS, J. C. Philippine agriculture—its position and problems. *Foreign Agr.* 15(1):3-10. Jan.1951. 1.9 Ec7For
- Deals with the situation confronting the Bell Mission and its recommendations.
- 25250 PYLE, H. Arizona and California agriculture. (Sum.) *West. Grower & Shipper* 22:10. Dec.1950. 280.38 W52
- 25251 QUINONEZ MOLINA, E. Ganadería y agricultura en Guatemala. *Rev. Ganad. [San Salvador]* 9 (130/131):27-29. Sept./Oct.1950. 8 R3292
- 25252 RAPTSCHINSKY, B. The agricultural crisis of our time. (In Dutch.) *Tijdschr. v. Econ. en Sociale Geog.* 41:262-267. Nov./Dec.1950. 280.8 T44
- English summary.
- 25253 RECKE, Landwirtschaft und gewerbefreiheit. *Agrarpolit. Presse-Korresp.* 3:259-262. Nov.10,1950. 281.8 Ag892
- Germany.
- Similar title in Eier-, Wild-, Geflügel- u. Honig-Markt 2(45):1-2. Nov.9,1950. 280.38 E13
- 25254 REHWINKEL, E. Bauern schlagen eine brücke; ein bild der deutsch-französischen agrarverhandlungen in Paris. *Übersicht* 1(2):1-3. Oct.1,1950. 18 Ub3
- 25255 REUTT, G. Calamités agricoles et perspectives de travail dans la région de Sidi-bel-Abbès. *Rev. Agr. de l'Afrique du Nord* 48:744-745. Oct.13,1950. 80 R326
- 25256 RICHTER, J. H. Agricultural production indices for the ERP countries. *Foreign Agr.* 15(1):10-14. Jan.1951. 1.9 Ec7For
- 25257 RIQUELME INDA, J. Recuperación agrícola de Francia. *Confed. de Cám. Nac. de Com. Carta Semanal* 14(707):13-14,25. Dec.30,1950. 286.8 C76
- 25258 ROCKEFELLER FOUNDATION. Mexican food output increased by Rockefeller Foundation project in international cooperation. New York, 1950. 2 p. 281.14 R59M
- Agricultural program.
- 25259 RØMCKE-MOE, G. Production development in agriculture. (In Norwegian.) (Excerpts.) *Norsk Landbr.* 16:420-425. Nov.10,1950. 11 N8122
- Includes discussion.
- 25260 ROTTENSTEN, J. West Germany's economic policy. (In Danish.) *Dansk Landbr.* 69:592-594,576-578. Nov.16-23,1950. 280.28 V91
- Includes agriculture.
- 25261 SABOGAL WIESE, J. R. Algunos aspectos económicos del Departamento de Huancavelica. *Vida Agr. [Lima]* 27:889-894. Nov.1950. 9.8 V66
- Discusses agricultural conditions.
- 25262 SACCHINELLI, D. Economic protection of agriculture. (In Italian.) *Olivicoltura* 5(9):1-2. Sept. 1950. 80 OL42
- Italy.
- 25263 SALVADOR Y ASCASO, J. M. El campo de la historia en la historia del campo. *Saragossa. Cám. Ofic. Sind. Agr. B. Mens.* 29:6,8. (Cont.) Oct.1950. 15 Sa7
- Installment deals with agriculture in China.
- 25264 SAYANNA, V. V., and NAIK, K. N. Obstacles to the Grow-More-Food Campaign (in the Dharwar District). *Indian J. Agr. Econ.* 5(2):72-87. Aug.1950. 281.8 In2
- 25265 SCHULTZ, T. W. Redirecting farm policy. *Nation* 172:55-57. Jan.20,1951. 280.8 N215
- 25266 SHAW, B. T. The job ahead. Washington, U. S. Agr. Res. Admin., 1950. 8 p. 1.98 Sh2
- Talk before the annual PMA conference, Chicago, Dec. 13, 1950.
- Agriculture's part in the national defense effort.
- 25267 SINGH, B. World population and agricultural outlook. *Indian J. Agr. Econ.* 5(2):38-45. Aug.1950. 281.8 In2



- 25268 SINISCALCHI, A. Protection of the agricultural economy in Libya. (In Italian.) *Libia Agr.* 14:1-2. Nov.14,1950. 24 L61
- 25269 SIVASWAMY, K. G. Indian agriculture—problems and programmes. *Pacific Aff.* 23:356-370. Dec.1950. 280.8 P11
- 25270 SKULLERUD, K. Impressions on farming and animal husbandry on Jaeren. (In Norwegian.) *Norsk Landbr.* 16:406. Oct.27,1950. 11 N8122
- 25271 SMEDING, P. A visit to France. (In Dutch.) *Friesch Tuinbouwbl.* 7(12):1;(13):1. Oct.7-Nov.4,1950. 80 F912
- Agriculture and fruit culture.
- 25272 STARK, D. H. Our United States—Michigan. *Ariz. Cattlelog* 6(2):28-31. Oct.1950. 43.8 Ar42
- Includes agriculture.
- 25273 STOA, T. E., BUCHANAN, M. L., and SCHICK-ELLE, R. What does 1951 promise for Dakota agriculture? *Dakota Farmer* 71(2):8,10,12,18. Jan.20,1951. 6 D14
- Grain prospects; livestock in 1951; farm income future.
- 25274 STRÖMBLAD, F. Agriculture in Kronoberg Province. (In Swedish.) (Sum.) *Lantmannen* 34:930-931. Dec.2,1950. 11 L234
- 25275 STRUTT, C. W. The agricultural revolution in the United Kingdom as a result of the war. (Digest.) *Austral. Inst. Agr. Sci. J.* 16:122. Sept.1950. 23 Au74
- 25276 SUISSE, P. Où en est l'agriculture des fellahs? *Terre Marocaine* 24:423-425. Oct.1950. 24 T44
- 25277 SWEHN, J. J. Unvergessliche tage. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:113-115. Nov.1950. 18 D4822
- Congresses.
- 25278 TAMURA, I. No no hoyo [Expression of agriculture]. *Tokyo, Toyo Kan*, 1949. 155 p. 34.3 T152
- 25279 TEMPANY, H. Sur certains problèmes que pose l'agriculture dans les contrées tropicales. (Abs.) *Chim. & Indus.* 64(3,spec.no.):63. Sept.1950. 383 C42
- 25280 THATCHER, M. W. New farm concept. *G T A Digest* 10(11):2-3. Nov.1950. 280.28 G11
- 25281 TIMM, T. R. Agricultural policy: educational assistance from the land-grant colleges. *Sowest. Social Sci. Q.* 31:197-206. Ref. Dec.1950. 280.8 So82
- 25282 TOOTELL, R. B. An appraisal of Montana agriculture at mid-century. *Mont. Farmer-Stockman* 38(4). 1,7. Oct.15,1950. 6 M764
- 25283 TUSSING, E. N. Dean Deering studies European agriculture. *Q. Alpha Zeta* 43(4):9. Nov.1950. 275.8 AL7
- 25284 ULSTER year book 1950. Belfast, 1950. 377 p. 256.13 UL7
- Includes agriculture.
- 25285 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. What's ahead in agriculture, by B. Allin and K. M. Gopen. Washington, 1950. 3 p. 1.914 R2R11
- 25286 U. S. PRESIDENT (H. S. TRUMAN). The economic report of the President transmitted to the Congress January 12, 1951. Washington, 1951. 241 p. 149 Ec7
- Includes adjustment of agricultural production.
- 25287 VELARDE, H. Algunas ideas sobre agricultura nacional porqué es gregario nuestro campesino. *Rev. de Agr., Com. e Indus. [Panama]* 8(110):38-39. Oct.1950. 8 R3291
- Panama.
- 25288 WESTERN GROWERS ASSOCIATION. 1950 convention at Coronado. *West. Grower & Shipper* 22:10-12,14-15,26. Dec.1950. 280.38 W52
- 25289 WILL, R. R. Adaptation of public programs in the Great Plains. *Great Plains Agr. Council. Proc.* 1950: 81-85. 282.9 G7992
- 25290 WIRE, H. C. A county builds its own prosperity; a self-help program, with farmers and businessmen co-operating, took Pike County, Mississippi, from poverty to riches in just three years. *Country Gent.* 120(12):30, 66-68. Dec.1950. 6 C833
- 16-Point Farm Program.
- Subsidies
- 25291 BRANDT, J. Incentives needed to raise milk production. *Dairymen's League News* 34(26):3,5. Dec.26, 1950. 44.8 D1432
- 25292 COMMONWEALTH DAIRY PRODUCE EQUALIZATION COMMITTEE. Sixteenth annual report of directors and balance sheet as at 30th June, 1950. Sydney, 1950. 11 p. 281.3449 C73
- Australia.
- 25293 GONÇALVES, P. A. Premium for levelling rice lands. (In Portuguese.) *Lav. Arroz.* 4(45):29-30. Sept.1950. 59.8 L39
- In the United States.
- 25294 INTERIM report of the commission established for the study of the question of a land equalization fund. (In Dutch.) *Pacht* 10:298-322. Oct.1950. 282.8 P11
- Includes discussion of agricultural rents and prices in the Netherlands.
- 25295 MANN, D. H. Farm bureau frowns on subsidies. *Utah Farmer* 70:403. Dec.21,1950. 6 D45
- COST AND STANDARD OF LIVING
- 25296 HUNGARY. MINISTRY FOR FOREIGN AFFAIRS. INFORMATION DEPT. The living conditions of Hungarian agricultural workers. n.p., 1950. 7 p. 283 H893
- FARM MANAGEMENT AND LAND ECONOMICS
- 25297 ANISTRATOV, P. On economic indexes and speeding up the turnover of capital. (In Russian.) *Mashinno-Traktornaia Sta.* 10(8):35-38. Aug.1950. 58.8 M11
- At machine-tractor stations.
- 25298 BALLARD, R. E. Conservation training for F.F.A. members. *Agr. Educ. Mag.* 23:126. Dec.1950. 275.8 Ag8
- 25299 BANUELOS, M. De la racionalización en el trabajo agrícola. *Ceres [Valladolid]* 15(174):7,9. Dec.1, 1950. 15 C33
- 25300 BENEKE, R. R., and POND, G. A. Starting farming in southeastern Minnesota. *Minn. Agr. Expt. Sta. B.* 405,20 p. June 1950. 100 M66
- How a group of veterans became established as farm operators.
- 25301 BENNIE, R. A. Running a holding on economic lines. *Transkelan Ter. Agr. Dept. Umcebisi Womlml Nomfuyi* 27(4):9-12. Nov.1950. 24 T684
- Union of South Africa.
- 25302 BLAIR, G. B. The farmers' business. *Tex. Coop. News* 30(9):2,8. Dec.15,1950. 72.9 T315F
- 25303 BLOSSER, R. H. Changes in farm organization and income on six farms where soil conservation practices were adopted 1937-49, Coshocton County, Ohio. *Ohio. State U. Dept. Agr. Econ. & Rur. Sociol. Mimeog.* B. 222,18 p. Dec.1950. 281.9 Oh32
- 25304 BOAL, R. S. More milk means more money. *W. Va. Agr. Col. Ext. C.* 358,19 p. Oct.1950. 275.29 W522C
- Farm management.
- 25305 BROWN, C. Impressive farming practices in America. *Land Worker* 31(379):5. Dec.1950. 283.8 L22
- 25306 CHERRINGTON, J. Scotland's exertions. *Farmer & Stock-Breeder* 64:3287. Dec.19,1950. 10 F228
- Farming in Scotland.
- 25307 CHRIST, J. H. Farming in the land of the mid-night sun [Alaska]. *Soil Conserv.* 16:147-149,152. Feb. 1951. 1.6 So38
- 25308 CLELAND, S. B. Hay and pasture needed in farm organization; soil comes first in any pasture—crop rotation, cattle are secondary. *Amer. Farm Pict.* 1950: 1,4. Fall 1950. 6 Am396
- 25309 COOPER, G. H. The economic aspect of poultry farming in Rhodesia. *Rhodesian Farmer* 4(11):19. Oct.25,1950. 24 R347
- 25310 DILLON, M. The thirty acre farm can be profitable. *Beet Grower* 4:171-172. Oct.1950. 66.8 B392
- 25311 DUCKHAM, A. N. American "know-how" and Kenya-Uganda farming. *East African Agr. J.* 16:9-15. July 1950. 24 Ea74
- 25312 DU PLESSIS, C. VAN H. Corn farmer must keep more cattle! (In Afrikaans.) *Landbouweekblad* 32 (1636):8. Nov.22,1950. 24 L232
- Union of South Africa.
- 25313 EBERLY, N. M. Farmers learn methods and see results in one tour. *Ext. Serv. Rev.* 21:210. Dec. 1950. 1 Ex892Ex
- Multiple demonstrations on a farm in Butler County, Pennsylvania.
- 25314 ELLIS, L. S. A glimpse of Italian agriculture. *Prog. Farmer, Miss.-Ark.-La. Ed.* 65(12):18,27. Dec. 1950. 6 So81
- Farming.



- 25315 FALQUE, X. Métayage et tiercement; où en est le métayage? Réveil Agr. 59:346-347. Nov.15,1950. 14 R322  
France.
- 25316 FANNING, J. W. Ten things to look for in your farming. Prog. Farmer, Ga.-Ala.-Fla. Ed. 65(12):17. Dec.1950. 6 P945G
- 25317 FARMER AND STOCK-BREEDER. Farmer & Stock-Breeder year book, 1951. A book of reference for farmers and all connected with agriculture. London, 1951. 376 p. 49 F22
- 25318 FELLHAUER, T. Lambs on the assembly line. Rec. Stockman, Annu. Ed. (1951)61(52):170-172,174. Dec.28,1950. 49 D43
- 25319 FOREPAUGH, E. L. How I failed as a farmer. Org. Farmer 2(5):30-32,59. Dec.1950. 57.8 Or3
- 25320 FOSTER, R. L. You can cut your costs. Cap-per's Farmer 62:16-17. Jan.1951. 6 M693
- 25321 FRASER, A. Changes in farming habits during the last twenty-one years. Young Farmer 18:290-291. Nov./Dec.1950. 10 Y8
- 25322 GHENT. LANDBOUWHOOGESCHOOL VAN DEN STAAT. RIJKSSTATION VOOR LANDBOUWECONOMIE. Etudes de la petite exploitation agricole. II. Le travail. A. 787 exploitations—12 régions agricoles. Gand, 1949. 70 p. 105.1 G345  
By A. G. Baptist, and H. Waterschoot.  
English summary.
- 25323 GILMAN, W. It's a one-big-family farm. New Eng. Homestead 123(23):10,12. Dec.9,1950. 6 N442  
Management of Fairdale Farms, Bennington County, Vt.
- 25324 GOESSLER, P. Zur schwäbischen landeskunde mit besonderer betonen der geschichte. Württemb. Hohenzollern in Zahlen 5:161-170. Ref. 1950. 265 W96
- 25325 GREECE. GREEK RECOVERY PROGRAM COORDINATING OFF. Land development. Evros River; a problem common to two countries. Athens, 1950. 2 v. (Its Reconstruction Ser. No. 47B, 48) 292 G81
- 25326 GREENE, P. H. Year around income. Calif. Citrog. 36:126. Jan.1951. 80 C125  
Citrus orchard supplemented with a poultry ranch.
- 25327 GULBRANDSEN, O. Farm management. (In Swedish.) Lantmannen 34:809-811. Oct.21,1950. 11 L234  
Sweden.
- 25328 HARPER, H. J. European farm tour shows emphasis on high crop yields to cut competition. Farmer-Stockman 53(12):13,43. Dec.1950. 6 Ok45
- 25329 HILL, E. B. Father & son agreements. Natl. Co. Agent & Vo-Ag Teacher 6(12):10-12. Dec.1950. 275.28 N213
- 25330 HOERNLE, E. Agrarpolitik und landwirtschaftliche betriebslehre. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:170-174. Dec.1950. 18 D4822  
Russian Zone of Germany.
- 25331 HOFFMANN, E. Landwirtschaftliche betriebsplanung und wirtschaftsberatung. Deut. Landwirt-Gesell. Arb. (n.s.)7,152 p. 1949. 18 D48
- 25332 HOFFMANN, R. Die vliehstärke des betriebes. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:147-151. Nov.1950. 18 D4822
- 25333 HOLLAND, D. O. H. Farming as a career. Rhodesian Farmer 4(12):11,13. Nov.8,1950. 24 R347
- 25334 HORNBERGER, T. Die entwicklung der landeskundlichen arbeit in Württemberg von 1920 bis 1950. Württemb. Hohenzollern in Zahlen 5:171-191. Ref. 1950. 265 W96
- 25335 JOHNSON, S. E. Balanced farming on nonirrigated farms in the Great Plains. Great Plains Agr. Cour cil. Proc. 1950:37-42. 282.9 G7992  
Includes discussion.
- 25336 KAMPE, Das kernproblem der betriebsplanung. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:73-74. Oct.1950. 18 D4822
- 25337 KLEMMER, A. A glance at Dutch farming. Mo. Rur. 91(21):4-5. Nov.11,1950. 6 R8891
- 25338 KLINGER, D. We will farm as we are! Say 7 out of 10 farmers in Wisconsin ag poll; 20% will milk more. Wis. Agr. & Farmer 78(1):7. Jan.6,1951. 6 W751
- 25339 LAGOS U., J. A. La economía rural. Agr. Costarricense 8:397. Nov.1950. 8 Ag895  
Farm management.
- 25340 LINDSTROM, T. A prudent farm manager. (In Swedish.) Lantmannen 34:908-910. Nov.25,1950. 11 L234  
Sweden.
- 25341 LOW, F. W., and others. Farm and home planning. Tex. Agr. Col. Ext. B. 183,12 p. 1950. 725.29 T312  
G. Darden, G. Thames, C. H. Bates, and R. L. Donahue, joint authors.
- 25342 LUCIEN, R. L'anachronisme de l'exploitation rurale dans l'économie moderne. Agriculture [Paris] 14:315-317. Nov.1950. 14 Ag823
- 25343 MCCORMICK, C. J. Let freedom ring. Washington, U. S. D. A., Off. Sec., 1950. 17 p. 1.91 A2M132  
Address at Winter Agricultural Conference, Purdue University, Lafayette, Dec. 27, 1950.  
Effect of family farming and rural life on our democracy.
- 25344 MCCORMICK, C. J. Strengthening the family farm. Washington, U. S. D. A., Off. Sec., 1950. 13 p. 1.91 A2M132  
Talk at annual PMA conference, Chicago, Dec. 11, 1950.
- 25345 MCDERMOTT, J. K. Balanced farming ups farmers' balances. Bankers Mon. 68:7-10. Jan.1951. 284.8 B223
- 25346 MAGOWAN, J. I. Family farming in Northern Ireland. Brit. Agr. B. 3:125-130. 1950/51. 10 B776
- 25347 MARTIN, W. H. How we cut cost of making milk. N. J. Farm & Gard 21(12):16-17. Dec.1950. 6 G162
- 25348 MARTIN, W. W. Father-son team works for Scotts. West. Farm Life 52(24):6,9. Dec.15,1950. 6 R153
- 25349 MEMELINK, G. The farmstead. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 61:325-333. Nov. 1950. 12 N282
- 25350 MENDENHALL, H. D. The history of land surveying in Florida. Surveying & Mapping 10:278-283. Oct./Dec.1950. 325.8 Am3
- 25351 MONRO, R. F. Winter production effort. Milk Bd. J. 1:526-527. Oct.16,1950. 44.8 M5934  
Dairy farm management.
- 25352 MONTANA. DEPT. OF STATE LANDS AND INVESTMENTS. Biennial report for the period beginning July 1, 1948 and ending June 30, 1950. Helena, 1950. 41 p. 252.49 L22
- 25353 MOORE, H. I. The case for the family farm. Times Survey Brit. Agr. 1950:5. Oct.1950. 10 T48
- 25354 MURPHY, W. E. Should sharefarmers be registered? Milk Bd. J. 1:532. Oct.16,1950. 44.8 M5934  
New South Wales dairy farms.
- 25355 NATIONAL FARMERS' UNION. SOMERSET COUNTY BR. Meat from marginal land, a draft policy suggested by "The Exmoor Survey" and other recent investigations. Taunton, Eng., 1949. 10 p. 281.171 N2132  
Management.
- 25356 NEBRASKA LEGISLATIVE COUNCIL COMMITTEE ON EDUCATIONAL LANDS AND FUNDS. Report. Nebr. Leg. Council. Comt. Rpt. 29,47 p. Aug.1950. 280.9 N273
- 25357 PIERSON, E. Bureau of Land Management sees approval for grazing fees on New Mexico Taylor Act lands. N. Mex. Stockman 15(12):55. Dec.1950. 49 N462
- 25358 PINI, P. L. Hill grain culture. (In Italian.) Humus 6(9):16-18. Sept.1950. 16 H88  
Farm management.
- 25359 POTAPOV, KH. E. Enlargement of collective farms—the road to a further intensive advancement of agriculture. (In Russian.) Sovet. Agron. 8(9):21-26. Sept.1950. 20 So84
- 25360 POTAPOV, KH. E. Past and present of Koltsova Village. (In Russian.) Sovet. Agron. 8(8):26-32. Aug.1950. 20 So84  
Collective farming.  
Includes yields of crops.
- 25361 PREUSCHEN, G. Spezielle landwirtschaftliche betriebslehre. Studienbogen Landwirt. B. 14,110 p. 1950. 18 St9
- 25362 PUERTO RICO. AUTORIDAD DE TIERRAS. Report, fiscal year 1948-49. San Juan, 1950. 39 p. 282.29 P96
- 25363 RAED, J. Función y actual estructura de la Dirección General de Tierras. Argentina. Dir. Gen. de Tierras. Rev. 1950(2):41-46. Mar./Apr.1950. 282.9 Ar3R
- 25364 RAMOS, A. La lechería de Los Alamos. Cam-pa [La Paz] 4(34):7,9-11. Feb.1950. 9.1 C15  
Bolivia.



25365 RATCHFORD, C. B. January, a critical month for farmers. *Tarheel Banker* 29(7):22-23. Jan.1951. 284.8 T17

#### Farm management.

25366 RATCHFORD, C. B. Plan for 1951 with 1961 in mind. Here's a way to make your farm succeed and sooner: set a 10-year goal. *Carolina Co-op.* 28(12):12-13. 28-30. Dec.1950. 72.8 N81

25367 SAVIN, A. Problems in enlargement of collective farms. (In Russian.) *Voprosy Ekon.* 1950(9):95-106. Sept.1950. 280.8 V89

25369 SCHILLER, O. The farming cooperative—a new system of farm management. *Indian J. Agr. Econ.* 5(2):5-22. Aug.1950. 281.8 I n2

25369 SERGEEV, S. S. *Rasshirenoe vosproizvodstvo i nakoplenie v kolkhozakh Chuiskoy doliny* [Expanded production and capital accumulation on collective farms in Chu River Valley]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 343 p. (Ekonimicheskije Monografii) 281.179 Se63

25370 SIERRA LEONE. SURVEY AND LANDS DEPT. Annual report for the year 1949. Freetown, 1950. 16 p. 282.9 S11

25371 SMITH, A. M. Some impressions of farming conditions in Holland and Belgium. *World Crops* 3:11-13. Jan. 1951. 281.8 W892

25372 SMITH, C. A. Whole-farm demonstrations produce results [South Africa]. *Farmer's Wk.* [Bloemfontein] 80:57. Nov.8, 1950. 24 F225

25373 TANGANYIKA. DEPT. OF LANDS AND MINES. Annual report, 1948. Dar es Salaam, 1950. 122 p. 282.9 T15A

25374 THOMPSON, J. H. The story of an English dairy farm; 10 years of dairy farming progress. *So. African Dairymen* 12:364-365, 367. Dec.1950. 44.8 So822

25375 TINDALL, C. Every farm is a factory. *Bankers Mon.* 67(12):7-8, 10, 12, 34. Dec.1950. 284.8 B223 Management.

25376 TSHKOTO, I. A. Enlargement of small collective farms. (In Russian.) *Sad i Ogorod* 1950(9):45-48. Sept.1950. 80 Sa13

25377 TSYNKOV, M. Enlargement of collective farms—important factor in the development of the public livestock industry. (In Russian.) *Voprosy Ekon.* 1950(7):16-23. July 1950. 280.8 V89

25378 TURK, K. L. Greater efficiency needed on dairy farms. *Dairymen's League News* 35:6. Jan.9, 1951. 44.8 D1432

25379 UGANDA. SURVEY, LAND AND MINES DEPT. Annual report for the year ended 31st December, 1949. Entebbe, 1950. 88 p. 282.9 Ug1

25380 ULRICH, W. Wie können die produktionskosten in der landwirtschaft gesenkt werden? *Grüne* 78:1169-1172. Oct.27, 1950. 17 Sch9 Switzerland.

25381 U. S. PRODUCTION AND MARKETING ADMIN. Louisiana, annual report; 1949 agricultural conservation program. Baton Rouge, 1950. 45 p. 1.952 A2L932 Statistical summary on payments, participation and conservation practices.

25382 WALPOLE, L. J. Homestead built into high producing [cattle] ranch by good management. *N. Mex. Stockman* 15(12):52-53. Dec.1950. 49 N462

25383 WHORTON, W. J. Balanced farming means extra money in your pocket. *Mo. Col. Farmer* 43(3):6. Dec.1950. 6 M691

25384 WITNEY, D. The economics of dairy farming. *Farmers' J.* (n.s.) 2(2):18-19. Dec.1950. 10 F2234

#### Bookkeeping and Records

25385 CASSANDRO, P. E. I problemi della rilevazione nelle aziende agrarie [Problems of farm accounting] Bari. U. Ist. di Ragioneria e di Econ. Aziendale. P. 6, 202 p. 1950. 30.6 C27

25386 DODANIS, D., and MENAHEM, M. La comptabilité pratiquée dans le domaine agricole. *Feuilles Agr.* 7(65):74-78. Oct./Dec.1949. 24 F43

25387 SAUER, E. L. Complete records are vital part of successful farming. *Goodyear Farm Prog.* 6(4):4. Nov.1950. 6 G63

25389 YAMOTO, M. *Noka boki; kakikata to shotoku no dashikata* [Book-keeping for the farmer]. Tokyo, Nogyo Shoin, 1949. 153 p. 30.6 Y1

#### Costs and Returns

25389 BERNARD, P. Un vieux compte de culture du blé. *Monit. Agr.* 3(138):2. Dec.3, 1950. 14 M744 Costs and returns a century ago in France.

25390 BLANCH, G. E., MUMFORD, D. C., and LAWRENCE, W. W. Cost of producing grade A milk in the Willamette Valley section, Portland, Oregon, milkshed. *Oreg. Agr. Expt. Sta. B.* 486, 64 p. Sept.1950. 100 Or3

25391 BUTLER, J. B. Costs of orchard establishment, 1946-49. *Wye Col. Dept. Econ. Econ. Fruit Farming.* Rpt. 1, 36 p. 1949. 281.3939 W97

25392 EARLEY, D. Figuring profits in Valley fertilization. *Tex. Farming & Citric.* 27(5):15. Nov.1950. 80 T31

25393 EASTWOOD, R. A. Economics of raising broilers and costs and margins of slaughtering poultry in fifteen co-operative wholesale poultry slaughtering plants, 1947-1948. *Ithaca?* 1951. 257 p. 281.347 Ea7

25394 ELKINGTON, W. M. A hen's story—from day old to death. *Mod. Poultry Keeping* 63:459. Nov.8, 1950. 47.8 Eg3

#### Costs and returns.

25395 FAMULARO, N. Estimation of costs of individual agricultural products; the ordinary and typical farm. (In Italian.) *Riv. del Catasto e del Serv. Tec. Erariali* (n.s.) 5:126-132. 1950. 280.8 R523

25396 FROSTENSON, G. How much is the American farmer worth? (In Swedish.) *Lantmannen* 34:970-972. Dec.16, 1950. 11 L234

#### Costs and returns.

25397 GARCIA DE OTEYZA, L. Contribución al estudio económico-social de las operaciones agrícolas. Spain. *Inst. de Estud. Agro-Sociales.* An. 1:74-91. 1950. 15 Sp16

A study of harvesting costs by various methods in Spain.

25398 HOLMSTRÖM, S. The revised farm calculation (In Swedish.) *Lantmannen* 34:874-876. Nov.11, 1950. 11 L234

#### Sweden.

25399 HYLAND, M. L. Sugar beet costs. *Beet Grower* 4:130-152. Oct.1950. 66.8 B392

25400 KRISTENSSON, R. Analysis of profits in agriculture. (In Swedish.) Sweden. *Lantbrstyr. Meddel. Ser. C: Rationaliseringsavd.* 5:68-93. 1950. 11 Sw3Mr

25401 LANDBOUW-ECONOMISCH INSTITUUT. Statistiek van de bedrijfsuitkomsten in de landbouw over het jaar 1948/'49 [Statistics of farming results for the year 1948/49]. 's-Gravenhage, 1950. 71 p. 259 N384 Captions for tables are given in English and Dutch.

25402 MANCINI, G. Irrigated pastures—magic resource; net of \$100 per acre is not impossible. *Rec. Stockman, Annu. Ed.* (1951) 61(52):52-53. Dec.28, 1950. 49 D43

25403 MONTOYA, A. J. Normas a seguirse en la determinación de los costos de producción de lanas. Argentina. *Dir. de Inform. P. Misc.* 340, 13 p. 1950. 9 P943

25404 MORRISON, E. M. Canning corn new cash crop for areas of Utah. *Farm & Home Sci.* [Utah Sta.] 11:76-77, 90. Dec.1950. 100 Ut1F

#### Cost of production.

25405 MUMFORD, D. C. Cost of producing turkey hatching eggs, western Oregon, 1949. (A preliminary report.) *Oreg. Agr. Expt. Sta. C. Inform.* 488, 4 p. Nov. 1950. 100 Or3C

25406 NANNESON, L. Räkenskapsresultat från svenska jordbruk, XXXV, bokföringsåret 1948-1949 [Swedish farm bookkeeping results, in the bookkeeping year 1948-1949]. Sweden. *Lantbrstyr. Meddel. Ser. B: Lantbravd* 6, 109 p. 1950. 11 Sw3Me

25407 NEBRASKA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Nebraska poultry cost account study, 1949-1950. *Nebr. Agr. Col. Ext. C.* 1465, rev., 6 p. Nov.1950. 275.29 N272Ex

25408 NEW YORK STATE COLLEGE OF AGRICULTURE. Average enterprise costs and returns from farm cost accounts, 43 farms, 1949. *N. Y. Agr. Col. A. E.* 757, 28 p. Dec.1950. 281.9 C81

25409 NEW YORK STATE COLLEGE OF AGRICULTURE. Individual factors and annual averages from farm cost accounts, 43 farms, 1949. *N. Y. Agr. Col. A. E.* 756, 30 p. Dec.1950. 281.9 C81



- 25410 NICHOLS, H. E. Costs that go into a bushel of apples. Iowa State Hort. Soc. Trans. 84:41-49. 1949. 81 To9
- 25411 OLTIZ MALDONADO, R. J. Costo de implantación de viñedos para vinificar. Vinos, Vinas y Frutas 45: 208-212, 215-216, 218-220. Oct. 1950. 9 Ag89 Argentina.
- 25412 PIERCE, E. C., and BREON, W. S. Costs, yields, and profit margins in potato production. Ohio Veg. & Potato Growers Assoc. Annu. Proc. 35:139-142. 1950. 75.9 Oh3
- 25413 RICHARDSON, P. P. Capital costs in apple production. Nottingham. U. Dept. Agr. Econ. Farm Managt. Notes 1950(4):15-16. Autumn 1950. 281.9 N842 England.
- 25414 RODINO, M. Costs and prices in agriculture. (In Italian.) Agricoltore [Perugia] 7(22):1. Nov. 15/30, 1950. 281.8 Ag822 Italy.
- 25415 ROMON, H. Vaine bataille? Nord Agr. 7(5): 1-2. Dec. 1, 1950. 14 N75
- Prices and costs and returns in French agriculture.
- 25416 RUTTEN, P. J. Farming costs. II. (In Dutch.) Land- en Tuinbouwl. 42:1. Nov. 18, 1950. 12 L233 Netherlands.
- 25417 SCHWEIZERISCHES BAUERNSEKRETARIAT. Produktionsbilanz und verhältniszahlen der schweizerischen landwirtschaft. Schweiz. Bauernsek. Mitt. 147, 73 p. 1950. 17 Se2
- Costs and returns.
- 25418 SOCIEDADE NACIONAL DE AGRICULTURA. Coffee. (In Portuguese.) Lavoura 54:6-8. July/Aug. 1950. 9.2 L39
- Cost of production in Brazil.
- 25419 STENSGÅRD, A. H. Some observations in regard to the general economic possibilities for agricultural planning. (In Swedish.) Sweden. Lantbrstyr. Meddel. Ser. C: Rationaliseringsavd. 5:7-24. 1950. 11 Sw3Mr
- Chiefly on costs and returns.
- 25420 SWEDBORG, E. Labor and capital costs in the Swedish farm calculation. (In Swedish.) Sweden. Stat. Jordbrännmnd. Jordbrekon. Meddel. 12:178-185. July 1950. 257.3 J76
- 25421 TOMLINSON, F. R. The cost of production of flue-cured tobacco. Farming So. Africa 25:334-338. Oct. 1950. 24 So842
- 25422 TORRICO ARIAS, R. A. El costo de producción en la agricultura y la cria. Agr. Venezol. 15(144): 33-34. July 1950. 9.95 Ag8
- 25423 TUYNMAN, D. S. Appearance and reality. (In Dutch.) Drents Landtbl. 31(45):4. Nov. 18, 1950. 12 D812
- Returns from farming.
- 25424 UGLAS, C. AF. Farm economic report. (In Swedish.) Lantmannen 34:850-852. Nov. 4, 1950. 11 L234
- Method of analyzing farm cost in Sweden.
- 25425 VERVENNE, B. VAN A. Benelux in connection with poultry products. (In Dutch.) Pels en Pluim 5(23):1. Nov. 17, 1950. 47.8 P36
- Chiefly a comparison of the cost of producing poultry in Belgium and the Netherlands.
- 25426 VINCENT, W. H., DONETH, J. C., and ELWOOD, E. M. Michigan farm business report for 1949. Mich. Agr. Expt. Sta. Q. B. 33:169-178. Nov. 1950. 100 M58S
- Financial summary.
- 25427 WITT, M. Verbilligung der milchherzeugungskosten; wirkungsvollstes mittel: erhöhung der milchergiebigkeit. Unser Milchvieh Ausg. B/C 2(9):1-2. Sept. 1950. 43.8 Un72
- Germany.
- Land Settlement and Colonization
- 25428 BORGHESE, S. A proposal for Angola. (In Italian.) Africa 5:273-275. Nov. 1950. 280.8 Af2
- Settlement opportunities.
- 25429 CONFORTI, E. The State of Minas Gerais (Brazil) in relation to Italian immigration. (In Italian.) Riv. di Agr. Subtrop. e Trop. 44:178-195. (Cont.) July/Sept. 1950. 26 Ag82
- English summary.
- Land settlement.
- 25430 ERCILLA, J. DE. Extremadura, desde Vizcaya; gigantesca obra de colonización en Badajoz. Badajoz. Diputación Prov. B. de Inform. Agr. y Ganad. 8(79):12-13. Aug. 1950. 15 B14
- 25431 GARCÍA ATANCE, J. Las zonas regables, declaradas de interés nacional. Spain. Inst. de Estud. Agro-Sociales. An. 1:51-63. 1950. 15 Sp16
- Land settlement.
- 25432 GEORGE, M. C. The settlement of the Connecticut Western Reserve of Ohio. Mich. U. Microfilm Abs. 10(4):179-180. 1950. 241.8 M58
- 25433 GOMES, P. Colonization cooperatives. (In Portuguese.) Divulg. Coop. 10:5,4. Aug. 1950. 280.28 R47
- Brazil.
- 25434 HARRINGTON, L., and HARRINGTON, R. Veterans at Cormack; after four years of varied experiences the soldier-settlers in Newfoundland's Humber Valley are still sticking it out. Family Herald & Wk. Star 81(46): 5,19. Nov. 16, 1950. 7 F21
- 25435 MOURA, V. Aspects of colonization and immigration in Bahia. (In Portuguese.) Divulg. Coop. 12:5-6. Oct. 1950. 280.28 R47
- Similar title in Coop [Bahia] 9(80):8-9, 20. July 1950. 280.28 C7842
- 25436 NEW ZEALAND. DEPT. OF LANDS AND SURVEY. Annual report on settlement of crown lands for the year ended 31st March, 1950. Wellington, 1950. 67 p. 282.9 N48
- 25437 RODRIGUEZ PINERO, S. Aspecto agrario de la ley de zonas regables. Spain. Inst. de Estud. Agro-Sociales. An. 1:41-49. 1950. 15 Sp16
- Land settlement in Spain.
- 25438 RYAN, J. C. Land colonisation in Siam. Madras J. Co-op. 42:129-131. Sept. 1950. 280.28 M26
- 25439 SANZ, A. B. Razones económicas de la ley de colonización y ordenación de la propiedad de las zonas regables. Spain. Inst. de Estud. Agro-Sociales. An. 1:37-40. 1950. 15 Sp16
- 25440 SOROA, J. M. DE. Util colaboración en las grandes zonas regables. Spain. Inst. de Estud. Agro-Sociales. An. 1:65-71. 1950. 15 Sp16
- Land settlement program.
- 25441 TORRES FILHO, A. Economic system of Brazil. (In Portuguese.) Lavoura 54:17-22. July/Aug. 1950. 9.2 L39
- Land settlement.
- 25442 VAILLANT, A., and LAMOUCHE, J. La région deltaïque de la Basse Sanaga: possibilités de mise en valeur. Agron. Trop. 5:516-523. Sept./Oct. 1950. 26 Ag86
- Settlement possibilities in Cameroun.
- Land Tenure
- 25443 ARNHOLM, C. J. The land inheritance law. (In Norwegian.) Landbrukstidende 56:847-850. Oct. 25, 1950. 11 L236
- Norway.
- 25444 BACHMAN, K. L., and JONES, R. W. Sizes of farms in the United States. U. S. D. A. Tech. B. 1019, 79 p. Ref. July 1950. 1 Ag84Te
- 25445 BANDINI, M. A model of land reform. (In Italian.) Agr. Ital. 1:565-567. Nov. 15, 1950. 16 Ag822
- The Ullignano estate.
- 25446 BAYMA, C. Agrarian reform. (In Portuguese.) Lavoura 54:43. July/Aug. 1950. 9.2 L39
- Brazil.
- 25447 CHASE, F. J., and SNIPE, L. F. Leasing arrangements on pump-irrigated farms; Adams, Clay, Fillmore, Hamilton and York Counties, Nebraska, 1948-1949. Nebr. Agr. Col. Ext. C. 885, 8 p. Sept. 1950. 275.29 N272Ex
- 25448 CHINI, A. The human factor in the agrarian reform. (In Italian.) Mezzogiorno Agr. 6(45):1-2. Nov. 19/25, 1950. 16 M57
- 25449 COUTURIER, P. Coopération et remembrement. Agriculture [Paris] 14:319-320. Nov. 1950. 14 Ag823
- 25450 CUNNINGHAM, J. B. Reimbursement agreement for improvements made by a tenant. Ill. Agr. Col. Ext. C. 673, 4 p. Nov. 1950. 275.29 IL62C
- 25451 DANTWALA, M. L. India's progress in agrarian reforms. Far East. Survey 19:239-243. Dec. 20, 1950. 280.9 In782
- 25452 DAWOOD, H. A. Economic aspects of land tenure in Egypt. East Lansing? 1950. 224 p. Film 132
- 25453 DELLINGER, G. Hunter vs. farmer. Purdue Agr. 42(2):6. Nov. 1950. 6 P97
- 25454 DIJK, B. VAN. Rents and polder charges in the Province of Gelderland in relation to Articles 4 and 12 of the Lease Bill. (In Dutch.) Pacht 10:334-349. Nov. 1950. 282.8 P11



- 25455 FANTINI, O. Fragmentation of land and consolidation. (In Italian.) *Rassegna* (n.s.)6(46):1. Nov.20, 1950. 280.8 R182 Italy.
- 25456 FOSSATI, A. Evolution of land tenure in Piedmont and the process of fractionation. (In Italian.) *Cron. Econ.* 90:9-11. Ref. Sept.30,1950. 280.8 C882
- 25457 FOSSATI, A. Land distribution in Piedmont and its social aspects up to the Second World War. (In Italian.) *Cron. Econ.* 91:8-10. Oct.15,1950. 280.8 C882
- 25458 GIUSTI, U. La statistique de la propriété foncière; résultats d'une récente enquête italienne. *Inst. Internat. de Statis. B.* 32(2):483-488. 1950. 251 In7B English summary.
- 25459 GT. BRIT. COLONIAL OFF. Bibliography of published sources relating to African land tenure. London London, Stationery Off., 1950. 156 p. (Its Colonial No. 258) 241.3 G792
- 25460 GROSS, C. Livestock rental agreements vary. *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1950:3-4. Dec.28,1950. 275.29 In2Em
- 25461 HARRIS, M. D., THARP, M. M., and TURNER, H. A. Better farm leases. U. S. D. A. *Farmers' B.* 1969, slightly rev., 42 p. Apr.1950. 1 Ag84F
- 25462 INSABATO, E. A latifundium without boundaries. (In Italian.) *Africa* 5:257-260. Nov.1950. 280.8 Af2
- 25463 KUMM, E. Jordhunger och dagsverkstorp [Soil hunger and crofters]. Stockholm, Kooperativa Förbundets Bokförlag, 1949. 184 p. (Skrifter Utgivna Av Arbetarnas Kulturhistoriska Sällskap. Ny Följd. Nr. 9.) 282.173 K96
- 25464 LAFORET, H. La répartition de la propriété foncière en Italie; la bonification; la réforme agraire. *Soc. des Agr. d'Algérie. B.* 93:249-265. July 1950. 24 S01
- 25465 LAMO DE ESPINOSA, E. Hacia una reforma de la tierra. Spain. *Inst. de Estud. Agro-Sociales. An. 1:* 7-35. 1950. 15 Sp16 Spain.
- 25466 LAURIA, M. Unconstitutional the laws on the agrarian reform. (In Italian.) *Mezzogiorno Agr.* 6(42): 1-2. Oct.29/Nov.4,1950. 16 M57
- 25467 MARTÍNEZ Y SÁNCHEZ ARJONA, J. M. Movimiento legislativo agrario en Italia; la reforma agraria italiana. Spain. *Inst. de Estud. Agro-Sociales. An. 1:* 93-100. 1950. 15 Sp16
- 25468 MONTAGNA, A. Ullignano: the estate and purposes of its transformation. (In Italian.) *Agr. Ital.* 1:568-594. Nov.15,1950. 16 Ag822
- Land program, farm management, and costs of the project under the agrarian reform.
- 25469 MONTAGNE, R. Bail à métayage et contrat déguisé cachant un métayage. *Prog. Agr. et Vitic.* 1950: 350-352. Dec.3/10,1950. 14 P94 France.
- 25470 MORINI, M. Reforms. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:281-282. Oct.31,1950. 16 C72 In land tenure and leases.
- 25471 MORSE, R. Land tenure and Indian society. *Far East. Survey* 19:233-239. Dec.20,1950. 280.9 In782
- 25472 MYERS, M. Keeping your farm in the family. *N. Y. Agr. Col. Farm Econ.* 177:4583-4585. Nov.1950. 280.8 C812
- 25473 NEUMEISTER, F. Die bedeutung des flurbereinigungsgesetzes. *Allgauer Bauernbl.* 18:733-734. Dec.14,1950. 18 AL53
- 25474 NIEHUIS. Planzuteilung in weinbergsumlegungen. *Weinbau* 5:378-379. Sept.17,1950. 390.8 W432 Germany.
- 25475 NOILHAN, H. Note sur l'interdiction de céder et de sous-louer des baux à ferme édictée par la loi du 13 avril 1946. *Acad. d'Agr. de France. Compt. Rend.* 36: 573-575. Oct.11/18,1950. 14 P215Bc
- 25476 PHILLIPS, J. F. Access to the countryside; main provisions of the 1949 act with particular reference to the position regarding public rights of way over farm land. *Farmer & Stock-Breeder Ybk.* 1951:59-62. 49 F22 Great Britain.
- 25477 PINCA, D. Consequential damage and cessation of profit caused by non-transfer of a farm to the renter. (In Italian.) *Riv. di Estim. Agr. e Genio Rur.* 8: 473-477. Oct.1950. 281.8 R522
- 25478 PLUYETTE, J. La réforme du statut du fermage et du métayage. *Agr. Prat.* 114:543-546. Dec.1950. 14 J82 France.
- 25479 POEL, J. M. G. VAN DER. Some notes on the contract "Land is Safe Security." (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 62:815-826. Oct.1950. 105.2 Or3
- 25480 POMPEI, M. The ill-famed article 20. (In Italian.) *Terra e Sole* 99:359-360. Nov.1950. 16 T273 Under the Italian land reform.
- 25481 RAAAB, J. Betriebsgrösse und ackerbau. *Bayern in Zahlen* 4:485-487. Oct.1950. 265 B34
- 25482 RONDOU, J. Le droit de préemption en cas de vente d'immeubles ruraux (étude de législation agricole comparée). *Agricultura [Louvain]* 48:127-147. Nov.1950. 13 R32
- 25483 STRECKER, H. Repräsentative vorwegaufbreitung der landwirtschaftlichen betriebszählung vom 22. mai 1949. *Bayer. Statis. Landesamt. Z.* 82:157-167. 1950. 265 B322
- 25484 TANNOUS, A. I. Land ownership in the Middle East. *Foreign Agr.* 14:263-269. Dec.1950. 1.9 Ec7For
- 25485 TONKES, J. H. Types of enterprise in agriculture. (In Dutch.) *Nieuwe Veldbode* 17:151-152. Nov.30,1950. 12 V542N
- Leasing problems.
- 25486 WANNER. Weinbergsumlegung und zellenrichtung. *Weinbau* 5:377-378. Sept.17,1950. 390.8 W432 Germany.

## Land Utilization

- 25487 ACKERMAN, J. Land classification methods, experiences, and problems. In *National Conference on Land Classification*, 2, Great Falls, Montana, 1950. *Proceedings*, p.6-9. Chicago?1950. 282 N21
- 25488 BAUMANN, H., and SCHWARZ, K. Zusammenarbeit zwischen wissenschaft und praxis am beispiel der neuorganisation des abwassergebiets bei Neustrelitz-Mecklenburg. *Deut. Landwirt. mit Mitt. der Deut. Landwirtsch.* 1:177-180. Dec.1950. 18 D4822
- Rearrangement of fields under the irrigation and drainage program.
- 25489 BEAR, F. E. A usable land inventory. *Inter-Amer. Conf. Agr. U. S. Paper* 4(5), 6 p. Dec.1950. 5 In820A
- 25490 BERRY, R. L. Has land classification for taxation purposes in Hand County, South Dakota been a success? In *National Conference on Land Classification*, 2, Great Falls, Montana, 1950. *Proceedings*, p.38-41. Chicago?1950. 282 N21
- 25491 BICE, A. Needed—a basic land inventory. *Rur. Realtor* 2(2):5-6. Third Q.1950. 282.8 R88
- 25492 BOAGA, G. Topographical and cadastral observations in Lombardy. (In Italian.) *Riv. del Catasto e del Serv. Tec. Erariali* (n.s.):5:89-101. Ref. 1950. 280.8 R523
- 25493 BROWN, G. W. S. Problems in county planning. *Manchester Statis. Soc. Trans.* (1949/50)117,43 p. Mar.8, 1950. 251 M31
- 25494 BYRKJELAND, J. Save the arable land. (In Norwegian.) *Norsk Landbr.* 16:436-438. Nov.24,1950. 11 N8122
- Land utilization in Norway.
- 25495 CAMPLEMAN, G. The role of the social scientist in planning. *Town & Country Planning* 18:522-523. Dec.1950. 98.58 T66
- 25496 DE SAULLES, D. Derbyshire "turns first turf" in start of government plan for more county holdings. *Smallholder* 84(2113):16-17. Nov.17,1950. 10 Sml
- Smallholdings from estates in England and Wales under the Agriculture Act, 1947.
- 25497 FOSSE, T., and SHANE, H. Report on the reclassification work in Cascade County, Montana. In *National Conference on Land Classification*, 2, Great Falls, Montana, 1950. *Proceedings*, p.80-82. Chicago? 1950. 282 N21
- 25498 HAAN, J. H. DE. Land utilization in Indonesia. *Organ. Sci. Res. Indonesia. O. S. R. News* 2:93-96. Aug.1950. 330.9 Or3Ae
- 25499 HOPKIN, J. A. Land classification for taxation purposes in Wyoming. In *National Conference on Land Classification*, 2, Great Falls, Montana, 1950. *Proceedings*, p.43-45. Chicago?1950. 282 N21
- 25500 KELSO, M. M. General principles involved in classifying farm land for tax purposes. In *National Conference on Land Classification*, 2, Great Falls, Montana, 1950. *Proceedings*, p.10-12. Chicago?1950. 282 N21



25501 KRISTJANSON, B. H., and JOHNSGARD, G. A. Land classification for taxation purposes in North Dakota. In National Conference on Land Classification, 2, Great Falls, Montana, 1950. Proceedings, p.36-37. Chicago? 1950. 282 N21

25502 LINDSEY, Q. W. Classification for taxation purposes in Harlan County. In National Conference on Land Classification, 2, Great Falls, Montana, 1950. Proceedings, p.32-35. Chicago? 1950. 282 N21

25503 MAROCCHI, G. The exhibit of old Milanese cadasters; the utilization of modern cadasters. (In Italian.) Riv. del Catasto e del Serv. Tec. Erariali (n.s.):5: 102-113. 1950. 280.8 R523

25504 MIDDLEMIST, W. B. Considerations in the valuation of land classified on a productivity basis. In National Conference on Land Classification, 2, Great Falls, Montana, 1950. Proceedings, p.56-62. Chicago? 1950. 282 N21

25505 OTTO, M. L. Report of land re-classification work on valuation for tax assessment purposes in Kansas. In National Conference on Land Classification, 2, Great Falls, Montana, 1950. Proceedings, p.26-31. Chicago? 1950. 282 N21

25506 SIMONSON, R. W. The functions of soil surveys in a land classification program for tax assessment. In National Conference on Land Classification, 2, Great Falls, Montana, 1950. Proceedings, p.15-20. Ref. Chicago? 1950. 282 N21

25507 STEELE, J. G. Use of land-capability maps of the Soil Conservation Service in classification of land for tax purposes. In National Conference on Land Classification, 2, Great Falls, Montana, 1950. Proceedings, p.21-25. Chicago? 1950. 282 N21

25508 STEVENS, D. M. Land classification in relation to Colorado's tax equalization program. In National Conference on Land Classification, 2, Great Falls, Montana, 1950. Proceedings, p.46-52. Chicago? 1950. 282 N21

25509 STUCKY, H. R. The Montana land reclassification program. In National Conference on Land Classification, 2, Great Falls, Montana, 1950. Proceedings, p.63-73. Chicago? 1950. 282 N21

25510 ŠUSTERŠIČ, M. The arrangement of land in the People's Republic of Slovenia. (In Croatian.) Gozdarski Inst. Slovenije. Izv. 1:79-90. 1950. 99.9 L76 English summary.

25511 WOODARD, E. F. Brief history of land classification in Nebraska. In National Conference on Land Classification, 2, Great Falls, Montana, 1950. Proceedings, p.42. Chicago? 1950. 282 N21

#### Land Values and Valuation

25512 ALLUE MORER, A. Venta de una finca de regadío a pagar en cultura. Ceres [Valladolid] 15(174):11. Dec.1,1950. 15 C33

25513 CHADSEY, C. T. Farms for sale--by mail. Rur. Realtor 2(2):4-5. Third Q.1950. 282.8 R88

25514 COCCO, E. DI. The appraisal of land improvements. (In Italian.) Riv. di Estimo Agr. e Genio Rur. 13:589-624. Dec.1950. 281.8 R522 Italy.

25515 DAVIS, W. D. The appraisal of farms. Appraisal J. 19:113-119. Jan.1951. 282.8 Am3

25516 DAVIS, W. D. The principles of valuation. Rur. Realtor 2(2):2-3. Third Q.1950. 282.8 R88 Land.

25517 DERTEANO URRUTIA, C. Valuación de los bienes rústicos; influencia de los elementos internos y externos de la producción sobre el valor de las tierras agrícolas. Agronomía [Lima] 15(62):5-17. June/Aug. 1950. 9.8 Ag83 Peru.

25518 ENGLEHORN, V. What to consider in valuation of farm buildings in relationship to the classification and valuation of land. In National Conference on Land Classification, 2, Great Falls, Montana, 1950. Proceedings, p.83-84. Chicago? 1950. 282 N21

25519 KNUDSEN, O. Listing the farm the right way. Rur. Realtor 2(3):2,14-15. Fourth Q.1950. 282.8 R88

25520 KRISTJANSON, B. H., and JOHNSGARD, G. A. Toward scientific farm property assessment. N. Dak. Agr. Expt. Sta. Bimon. B. 13:47-49. Nov./Dec.1950. 100 N813B

25521 MASON, A. H. Farm appraisals. Your Farm 9(12):39-43. Dec.1950. 6 Y8

25522 PAARLBERG, D. Should I buy more land? Successful Farming 49(1):33,64,66-67. Jan.1951. 6 Su12

25523 PANEL discussion on market conditions, trends of agriculture economics, and farm brokerage and financing. Rur. Realtor 2(3):4-13. Fourth Q.1950. 282.8 R88

Reports by L. L. Gairaud, T. M. Welsh, D. W. Reed, and W. S. Hardin.

25524 PINCA, D. The appraisal of alfalfa in leases in the Province of Ferrara. (In Italian.) Riv. di Estimo Agr. e Genio Rur. 13:669-674. Dec.1950. 281.8 R522

25525 POMPEI, M. What is the cost of small farm property? (In Italian.) Terra e Sole 97:287-288. Sept. 1950. 16 T273

25526 TINDALL, C. What is a farm worth? Mo. Rur. 91(23):4-5. Dec.9,1950. 6 R8891

25527 WAGNILD, O. State program for reappraisal of farm and grazing lands in Montana. In National Conference on Land Classification, 2, Great Falls, Montana, 1950. Proceedings, p.74-75. Chicago? 1950. 282 N21

#### POPULATION

25528 BOHLEN, J. M., and WAKELEY, R. E. Intentions to migrate and actual migration of rural high school graduates. Rur. Sociol. 15:328-334. Dec.1950. 281.28 R88

25529 DENMARK. STATISTISKE DEPT. Folketaelningen i Grønland den 31. december 1945. Population du Groenland au 31 décembre 1945. Denmark. Statis. Dept. Statis. Meddel. (ser.4)134(5),41 p. 1950. 257.1 St2M Tables also in French.

25530 MARTIN, J. L. La inmigración de los campesinos en Cuba. Agronomía [Habana] (ser.2)10(10):16,24. Nov.1950. 8 C893

25531 MAYO, S. C., and BOBBITT, R. M. Biracial identity of rural locality groups in Wake County, North Carolina. Rur. Sociol. 15:365-366. Dec.1950. 281.28 R88

Neighborhood population structure.

25532 PARENTON, V. J., and PELLEGRIN, R. J. The "Sabines": a study of racial hybrids in a Louisiana coastal parish. Social Forces 29:148-154. Ref. Dec. 1950. 280.8 J823

25533 VAEREN, J. VANDER. Les concours entre villages. Rev. de l'Agr. 3:1147-1152. Nov.1950. 13 R322

English summary.

Program to halt the rural exodus.

#### RURAL SOCIAL ORGANIZATION

25534 DUNCAN, O. D., and SHARP, E. F. Rural sociological research in the Wheat Belt. Rur. Sociol. 15: 339-351. Dec.1950. 281.28 R88

25535 HAMILTON, C. H. Some current problems in the development of rural sociology. Rur. Sociol. 15:315-321. Dec.1950. 281.28 R88

25536 HONIG, P. Plantation sociology. (In Dutch.) Chron. Nat. 106:397-400. July 1950. 514 B31 In Indonesia.

25537 PEACE, E. J. Let's appreciate our way of living. Mont. Farmer-Stockman 38(6):8. Nov.15,1950. 6 M764

Rural life in Austria.

25538 TUMIN, M. M. The dynamics of cultural discontinuity in a peasant society. Social Forces 29:135-141. Dec.1950. 280.8 J823 Guatemala.

25539 VIDART, D. Esquema de una sociología rural uruguaya. XIX-XXII. Uruguaya. Min. de Ganad. y Agr. B. Inform. 342:10:343;10:344;6:345-6. Oct.12-Nov.2,1950. 9.9 G15B

25540 WACHLI, E. Von der Schaffhauser-Vereinigung für Dorfkultur. Grüne 78:373. Apr.7,1950. 17 Sch9 Switzerland.

25541 WACHLI, E. Warum förderung der geistig-kulturellen werte des bauernlebens? Grüne 78:370-372. Apr.7,1950. 17 Sch9 Switzerland.

#### Human Ecology

25542 CHAMBER OF COMMERCE OF THE UNITED STATES OF AMERICA. Government by authorities. Washington,1950. 20 p. 280-.2 C3527G Tennessee Valley Authority.

25543 LARUE, W. C. Let's organize now for county and community progress in 1951. Prog. Farmer, Carolinas-Va. Ed. 65(12):16-17,85. Dec.1950. 6 P945



25544 MAYO, S. C. More organizations for a balanced community life. Res. & Farming [N. C. Sta.] 9(2): 7. Autumn 1950. 100 N81R

25545 MORGAN, G. The community as person. Christian Rur. Fellowship B. 157,4 p. Nov.1950. 281.29 C46

25546 SELLERS, R. I'm proud of my community. Prog. Farmer, Ga.-Ala.-Fla. Ed. 65(12):15,88,93. Dec. 1950. 6 P945G

Community improvement program, Cherokee County, Georgia.

25547 SIMPSON, C. E. E. B. An African village undertakes community development on its own. Mass. Educ. B. 2:7-9. Dec.1950. 275.8 M38

25548 WALDVOGEL, K. Rückblick auf eine dorfwache. Grüne 375-379. Apr.7,1950. 17 Sch9 Switzerland.

25549 WILL, R. R. Development program for the Arkansas, White, and Red River Basins. Great Plains Agr. Council. Proc. 1950:93-95. 282.9 G7992

#### Institutions

25550 ACKERMAN, C. B. Program of work, 1951, Natl. Home Demonstration Council. Agr. Leaders' Digest 32:42,44. Jan.1951. 275.28 Ar3

25551 ACKERMAN, C. B. What do rural women want? Ext. Serv. Rev. 21:206,219. Dec.1950. 1 Ex892Ex National Home Demonstration Council program.

25552 ASSOCIATION OF LAND-GRANT COLLEGES AND UNIVERSITIES. Officers and committees for 1950. Washington,1950. 10 p. 225 As723

25553 BAIR, A. Library and visual aids. Agr. Educ. Mag. 23:139-140. Dec.1950. 275.8 Ag8

25554 BAUMGARTEN, O. Die bedeutung der ersten grossen landwirtschaftsschau der Deutschen Demokratischen Republik. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:1-2. Sept.1950. 18 D4822

25555 BEERNINK, H. J. Our State College; its constructive program is real benefit to Washington. Wash-coegg 28(4):10,23. Sept.1950. 47.8 W27

25556 BEST, K., and HILLYER, K. Musical harvest; fun and fame came to Hood River, where a home-grown orchestra and choir has made fine music a community project. Country Gent. 120(12):21,94,96-97. Dec.1950. 6 C833

25557 BIEHLER, J. H. Lehrplan für die landwirtschaftlichen berufsschulen. A. Für die männliche jugend. Staatsinst. f. den Landwirt. Unterricht. Schr. 1:31-70. 1949. 275.9 M92

25558 BRADFORD, C. J., and ALLEN, F. J. The country doctor. Cattleman 37(8):27,62. Jan.1951. 49 C29

25559 BRANDT, J. Community responsibility for health service in rural areas. Natl. Conf. Rur. Health. Annu. Mtg. 5:6-7. 1950. 449.9 N214

25560 BRANNAN, C. F. Democracy must go forward. Washington, U. S. D. A., Off. Sec.,1950. 17 p. 1.91 A2B73

Talk at annual PMA conference, Chicago, Dec. 13, 1950.

25561 BRANSON, N., and CAMP, B. They're building their own fun. Successful Farming 49(1):34-35,72-74. Jan.1951. 6 Su12

Rural Life Center, Richland County, Ohio.

25562 BUONAIUTO, G. Agricultural instruction in Italy. (In Italian.) Mezzogiorno Agr. 6(42):3. Oct.29/Nov.4,1950. 16 M57

25563 CAMP, B. Why the farmer needs a church. Successful Farming 48(12):40,130. Dec.1950. 6 Su12

25564 CANGIULLI, A. Need for reorganizing the Faculty of Agriculture. (In Italian.) Mezzogiorno Agr. 6(47):3-4. Dec.3/9,1950. 16 M57

25565 CASALINI, M. How agricultural "tourism" will be developed. (In Italian.) Agenzia Romana Note e Inform. Agr. 83:7-8. Dec.6,1950. 281.8 Ag3 Education.

25566 CHINI, A. Peasant instruction and the agrarian reform. (In Italian.) Terra [Firenze] 61(45):1-2. Nov.5,1950. 16 T274

25567 CORDS-PARCHIM. Bauer und landbaumeister. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1: 101-102. Oct.1950. 18 D4822

Russian Zone of Germany.

25568 DAIGLE, J. Les circonstances qui ont entouré l'établissement de l'École Moyenne d'Agriculture de Brigham. Terre de Chez Nous 22(45):15,19. Jan.3,1951. 7 T27

25569 DARLING, E. M. Religion in the life of the village. Village 5(3):4-7. Autumn 1950. 281.28 V71

25570 DEERING, A. L. Principles of youth work, based on observations in many countries. Washington, U. S. Ext. Serv.,1950. 2 p. 1.913 F3P93

Presented to State 4-H Club leaders attending the National 4-H Club Camp, Washington, D. C., 1950.

25571 DELONEY, J. E. Criteria for constructing a salary schedule. Agr. Educ. Mag. 23:134,136. Dec.1950. 275.8 Ag8

For teachers.

25572 DEYOE, G. P., JUERGENSON, E. M., and PHIPPS, L. J. Nine state workshop for supervising teachers and teacher trainers. Agr. Educ. Mag. 23:135-136. Dec.1950. 275.8 Ag8

25573 DIJK, L. VAN. Agriculture and agricultural education. (In Dutch.) Zeeuwisch Landtbl. 38(2044):6-9; (2045):4. Nov.11-18,1950. 12 Z2

25574 DUNKELBERGER, P. C. Values of adult farmer classes. Agr. Educ. Mag. 23:150,163. Jan.1951. 275.8 Ag8

25575 FAIRBANKS, D. Extension helps handicapped children. Ext. Serv. Rev. 21:207. Dec.1950. 1 Ex892Ex

25576 FEIX, G. Die deutsche jugend muss lernen. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1: 215-216. Dec.1950. 18 D4822

Russian Zone of Germany.

25577 FERNANDO, C. H. Cottage industries in Ceylon. Ceylon Labour Gaz. 1(8):3-8. Aug.1950. 283.8 C33

25578 FRETZ, J. W. Christian mutual aid, a factor in church and community development. Christian Rur. Fellowship B. 158,7 p. Dec.1950. 281.29 C46

25579 GAMBLE W. K. Determining what to teach adult and young farmer classes. Agr. Educ. Mag. 23:149. Jan.1951. 275.8 Ag8

25580 GEE, J. R., JR. Analysis of teaching units by students and teacher. Agr. Educ. Mag. 23:139. Dec.1950. 275.8 Ag8

25581 GIANDONATO, R. M. H. Connecticut Agricultural Experiment Station Library 1875-1950. Spec. Libr. 41:352-358,370-371. Ref. Dec.1950. 243.8 Sp3

25582 GLEISSNER, K. Lehrplan für die landwirtschaftlichen berufsschulen. B. Für die weibliche jugend. Staatsinst. f. den Landwirt. Unterricht. Schr. 1:71-108. 1949. 275.9 M92

25583 GRYZA, A. Party-political work at machine-tractor stations. (In Russian.) Bol'shevik 27(19):58-64. Oct.1950. 280.8 B633

25584 HÅKANSSON, R. The Exhibits Service of the Office of Information - a valuable aid for agricultural exhibitions in USA. (In Swedish.) Lantmannen 34:812-813. Oct.21,1950. 11 L234

25585 HÅKANSSON, R. Films and visual aids in the U. S. A. (In Swedish.) Lantmannen 34:973-974. Dec.16, 1950. 11 L234

25586 HÅKANSSON, R. Information A and O in American agriculture. (In Swedish.) Lantmannen 34:835-836. Oct.28,1950. 11 L234

U. S. Extension Service.

25587 HÅKANSSON, R. Radio and television in the service of agriculture in USA. (In Swedish.) Lantmannen 34:889-890. Nov.18,1950. 11 L234

25588 HART, L. Tarleton State College [Texas] finds out how to keep 'em down on the farm. Sowest. Crop & Stock 4(12):12,74. Dec.1950. 6 So8942

25589 HOFFER, C. R., and others. Health needs and health care in Michigan; report of a State-wide survey. Mich. Agr. Expt. Sta. Spec. B. 365,94 p. June 1950. 100 M58S

D. L. Gibson, C. P. Loomis, P. A. Miller, E. A. Schuler and J. F. Thaden, joint authors.

25590 HOLLJE-LÜERSSSEN. Bauer, dein testament! Oldenburger Landvolk 1950:94. Dec.7,1950. 281.8 OLI

25591 HORNE, T. J. Securing and maintaining farmer interest in adult education. Agr. Educ. Mag. 23:151. Jan.1951. 275.8 Ag8

25592 HYTE, F. M. Something old, something new in rural service. News Farmer Coop. 17(10):20,27. Jan. 1951. 166.2 N47

Rural health cooperatives, the newest addition to the rural service cooperative field.

25593 JOHNSON, P. C. Rural medical facilities at the local level. Natl. Conf. Rur. Health. Annu. Mtg. 5:1-3. 1950. 449.9 N214



- 25594 JOLLY, C. A. The village potter. Village 5(4): 24-26. Winter 1950. 281.28 V71  
Great Britain.
- 25595 JONES, J. S. Community responsibility for health service in rural areas. Natl. Conf. Rur. Health. Annu. Mtg. 5:15-17. 1950. 449.9 N214
- 25596 JONES, L. W. Relation of agricultural extension service to rural health problems. Natl. Conf. Rur. Health. Annu. Mtg. 5:3-6. 1950. 449.9 N214
- 25597 JONES, R. N. Community service work. Agr. Educ. Mag. 23:125,140. Dec.1950. 275.8 Ag8  
In teaching vocational agriculture.
- 25598 KELLER, E. C. Our lettuce project. Agr. Educ. Mag. 23:131. Dec.1950. 275.8 Ag8
- 25599 KELLY, E. M. Church bell rings again. Kans. Farmer 87(23):4. Dec.2,1950. 6 K13  
Restored through the efforts of the home demonstration unit, a pioneer church in Nemaha County was reopened.
- 25600 KINSMAN, J. M. The responsibility of the medical schools in the rural health program. Natl. Conf. Rur. Health. Annu. Mtg. 5:20-21. 1950. 449.9 N214
- 25601 KNAUS, K. Extension work in the Punjab. Foreign Agr. 14:276-277. Dec.1950. 1.9 Ec7For
- 25602 KNIGHT, E. B. Serving boys from part-time farms. Agr. Educ. Mag.23:167. Jan.1951. 275.8 Ag8  
Vocational guidance for boys residing on part-time farms.
- 25603 KNUTI, L. L. Procedures for determining objectives and evaluating outcomes in agricultural education. Mich. U. Microfilm Abs. 10(4):112-114. 1950. 241.8 M58
- 25604 KRUGER, U. Die landwirtschaftliche fachliteratur in der Deutschen Demokratischen Republik. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:38-41. Sept.1950. 18 D4822
- 25605 KUNZ, F. Kleine schulkunde für die lehrer an den landwirtschaftlichen berufsschulen in Bayern. Staatsinst. f. den Landwirt. Unterricht. Schr. 1:5-30. 1949. 275.9 M92
- 25606 LANDESBAUERNKAMMER SCHLESWIG-HOLSTEIN. Jahresbericht 1949. Kiel?1950. 104 p. 18 Sch3J
- 25607 LYCHE, J. Farm organizations and agricultural instruction in the United States. (In Norwegian.) Tidsskr. f. det Norske Landbr. 57:158-180. Ref. May/June 1950. 11 T433
- 25608 MAINE. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Director reports on extension work, 1949/50. Maine. Agr. Col. Ext. B. 405,43 p. Nov.1950. 275.29 M281B
- 25609 MARTIN, R. Oklahoma's rural school program still stirs up controversy. Farmer-Stockman 53(12):12, 39. Dec.1950. 6 Ok45
- 25610 MAUCH, A. Public policy education in extension. Ext. Serv. Rev. 21:214-215,218. Dec.1950. 1 Ex892Ex
- 25611 MERCIER, A. Semblanza del hombre de campo. Buenos Aires y La Pampa 107:49-50. Oct.1950. 9 B868
- 25612 MICHIGAN STATE COLLEGE. Farmers' week, thirty-sixth anniversary, January 29-February 2, 1951. East Lansing,1950? 48 p. 276 M581Fa
- 25613 MORGAN, T. W. South Korea's extension program. Foreign Agr. 15(1):15-18. Jan.1951. 1.9 Ec7For
- 25614 MUHM, D. Women take to agriculture. Iowa Agr. 49(4):10,16. Nov.1950. 6 Io9  
Women enrolled in the Iowa State College.
- 25615 MURPHY, F. D. The responsibility of the medical schools in the rural health program. Natl. Conf. Rur. Health. Annu. Mtg. 5:9-11. 1950. 449.9 N214
- 25616 NATIONAL CONFERENCE ON RURAL HEALTH. Fifth annual meeting held in Kansas City, Mo., Feb.3 and 4, 1950. Chicago?1950. 23 p. 449.9 N214  
Sponsored by American Medical Association.
- 25617 NEBRASKA LEGISLATIVE COUNCIL. COMMITTEE ON REORGANIZATION OF COUNTY GOVERNMENT. Report. Nebr. Leg. Council. Comt. Rpt. 32,49 p. Sept.1950. 280.9 N273
- 25618 OSTEEN, J. M. Advisory councils as an aid in improving instruction. Agr. Educ. Mag. 23:162-163. Jan.1951. 275.8 Ag8  
Agricultural education.
- 25619 ØYE, A. The arrangement of courses at the agricultural schools. (In Norwegian.) Norsk Landbr. 16: 446-447. Nov.24,1950. 11 N8122
- 25620 PAREJA EGUEZ, O. Exposición agropecuaria e industrial en Santa Cruz de la Sierra. Campo [La Paz] 4(42/43):11-13. Oct./Nov.1950. 9.1 C15
- 25621 PEDERSEN, O. B. America's "National Star Farmer of 1950" invited to Denmark in the fall. (In Danish.) Dansk Landbr. 69:530-532. Oct.19,1950. 280.28 V91
- 25622 PEYROUSE, G. Les prestations familiales agricoles doivent être augmentées en 1951. J. de la France Agr. 6:1229,1231. Nov.24/30,1950. 14 J829
- 25623 PINGRY, W. Farm Operation, a grown-up baby. Iowa Agr. 49(4):11,19. Nov.1950. 6 Io9  
Farm Operation curriculum in the Division of Agriculture, Iowa State College.
- 25624 PURVIS, G. H. The place of the farm institute in agricultural education. Brit. Agr. B. 3:137-142. 1950/51. 10 B776
- 25625 REED, H. Relation of agriculture extension service to rural health problems. Natl. Conf. Rur. Health. Annu. Mtg. 5:12-14. 1950. 449.9 N214
- 25626 REPORT of the De Vries Commission. (In Dutch.) Landbk. Tijdschr. 62:864-911. Nov.1950. 105.2 Or3  
Report of a commission established by the Nederlands Genootschap voor Landbouwwetenschap and the Nederlands Instituut van Landbouwkundig Ingenieurs on cooperation in agricultural research and education in the Netherlands.
- 25627 ROGERS, C. M. Religious life in the Allahabad Agricultural Institute. Allahabad Farmer 24:189-192. Sept.1950. 22 AL5
- 25628 RURAL INDUSTRIES BUR. Progress in the rural crafts; the report for 1949-50. London,1950. 41 p. 281.9 R88R
- 25629 RUSSELL, K. L. Establishing departments of vocational agriculture in Missouri. Mo. U. B. 51(34),31 p. 1950. 275.1 R91
- 25630 SANTOS, B. M. Community-centered agricultural schools [Philippine Islands]. Agr. & Indus. Life 12(11):12,32. Nov.1950. 25 Ag8
- 25631 SCHAAP, C. M. Preliminary list of libraries in Indonesia. Organ. Sci. Res. Indonesia. O. S. R. News 2:105-106. Aug.1950. 330.9 Or3Ae  
Includes agricultural libraries.
- 25632 SCHLUP, L. A. After all, it's the way you serve people. Washington, U. S. Ext. Serv.,1950. 10 p. 1.913 12A18  
Prepared for Extension intra-regional conferences of district supervisors in the South.
- 25633 SCHLUP, L. A. District supervisors' contribution to better county Extension public relations. Washington, U. S. Ext. Serv.,1950. 4 p. 1.913 12D63  
Prepared for Extension intra-regional conferences of district supervisors in the South.
- 25634 SHANNON, F. A. The status of the Midwestern farmer in 1900. Miss. Val. Hist. Rev. 37:491-510. Dec. 1950. 134.8 M69
- 25635 SHEFFIELD, C. A. Training Extension personnel. Washington, U. S. Ext. Serv.,1950. 7 p. 1.913 A2Sh3  
Talk at Extension intra-regional conferences of District supervisors in the South.
- 25636 SHORT, J. G. Report of the Extension Department for 1949-50. Allahabad Farmer 24:185-188. Sept. 1950. 22 AL5  
Allahabad Agricultural Institute.
- 25637 SIEGWART, FATHER. Werkmappe für bauern zur grundsätzlichen schulung. Einsiedeln,St. Wendelinswerk,1949. 20 pieces in portfolio. 281.2 S112W  
Religion in rural life.
- 25638 SILVERNAIL, H. A lesson in adult education from experience. Agr. Educ. Mag. 23:154. Jan.1951. 275.8 Ag8
- 25639 SKIBBE, B. Arbeiter und landwirtschaftsausstellung. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:5-6. Sept.1950. 18 D4822  
Russian Zone of Germany.
- 25640 SMITH, MRS. H. Rural medicine facilities at the local level. Natl. Conf. Rur. Health. Annu. Mtg. 5:11-12. 1950. 449.9 N214
- 25641 SMITH, J. H. Mercy in saddle bags. Cattleman 37(8):26,100,102. Jan.1951. 49 C29  
Rural doctors.
- 25642 STARLING, D. Use of motion pictures by teachers of vocational agriculture in North Carolina. Agr. Educ. Mag. 23:153-154. Jan.1951. 275.8 Ag8
- 25643 STOCKBURGER, S. Zum thema "bauernschulen." Württemb. Wchnbl. f. Landwirt. 117:985-986. Oct.28,1950. 18 W96



25644 SVETAĽO, N. V. Academy of Sciences of the Hungarian People's Republic. (In Russian.) Akad. Nauk SSSR. Vest. 20(8):60-65. Aug.1950. 511 Ak14V

25645 TAYLOR, H. L. Orient for establishment—a five point basic program proposed. Agr. Educ. Mag. 23: 142-143. Dec.1950. 275.8 Ag8

25646 TAYLOR, L. Twenty-one years of adult education. Agr. Educ. Mag. 23:150,165. Jan.1951. 275.8 Ag8

25647 TISDALE, C. R. Royal Fair builds for the future. Farmer's Mag. 47(12):31,38. Dec.1950. 7 C165 Royal Winter Fair, Canada.

25648 TORREIRO, R. Como se forman los futuros profesionales del campo. Pampa Argentina 23(276):14-15. Nov.1950. 9 P19

25649 TYRER, T. G. The farmer who followed advice and the results on this South Island dairyfarm show value of teamwork between farmer and extension worker in planning for increased production. New Zeal. Dairy Exporter 26(6):4-5,11,13-14. Dec.1950. 44.8 N484

25650 UNITED NATIONS. COMMISSION OF ENQUIRY ON THE COCA LEAF. Report May 1950. United Nations Econ. & Social Council. Off. Rec. 5(spec.sup.1),166 p. 1950. 280.9 Un3653O

Includes culture and economic aspects of production.

25651 U. S. DEPT. OF AGRICULTURE. LIBRARY. Report of the Librarian, 1949/50. Washington,1950. 10 p. 1 L61

25652 U. S. EXTENSION SERV. Brief outline for county extension public relations, by L. A. Schlup. Washington,1950. 11 p. 1.913 I2B76

25653 U. S. EXTENSION SERV. National Home Demonstration Week activities for 1950 surpass previous years' records, by M. Hogan. Washington,1950. 10 p. 1.913 H2N217

25654 WALTER, E. E. Planning your program in audio-visual aids. Agr. Educ. Mag. 23:141. Dec.1950. 275.8 Ag8

25655 WARDLE, N. J. Selecting community services. (Extr.) Agr. Educ. Mag. 23:124-125. Dec.1950. 275.8 Ag8 In the vocational agriculture program.

25656 WATKINS, D. E. Assisting farmers in becoming and staying established. Agr. Educ. Mag. 23:152,163. Jan.1951. 275.8 Ag8

Agricultural education and training.

25657 WATSON, M. Farming programs of former pupils; some relationships to educational and occupational success. Agr. Educ. Mag. 23:143. Dec.1950. 275.8 Ag8

25658 WIELEN, H. G. W. VAN DER. New possibilities in the education of the Netherlands child. (In Dutch.) Drents Landtbl. 31(45):3. Nov.18,1950. 12 D812

25659 WILLIAMS, R. H. Milestones of Pennsylvania's State Farm Show. Pa. Farmer 144:7,30,42,46-47. Jan.13, 1951. 6 P383

25660 WILSON, B. S. Evaluation and improvement of student teaching in agricultural education at the University of Tennessee. Agr. Educ. Mag. 23:137-138,159,166-167. Dec.1950-Jan.1951. 275.8 Ag8

25661 WILSON, M. L. Education by democratic processes. Washington, U. S. Ext. Serv.,1950. 7 p. 1.913 A2W69

Presented before American Association for the Advancement of Science Symposium on "Science and Human Values," Cleveland, Dec. 27, 1950.

25662 WILSON, M. L. Women in a free world. Washington, U. S. Ext. Serv.,1950. 7 p. 1.913 A2W69

Talk at meeting of the National Home Demonstration Council, Biloxi, Oct. 19, 1950.

25663 WINKLER. Die berufsausbildung in der landwirtschaft. Deut. Landwirt. mit Mitt. der Deut. Landwirtschaftsgesell. 1:193-194. Dec.1950. 18 D4822 Russian Zone of Germany.

25664 ZANDER, H. Betrachtungen zur landwirtschaftsausstellung in Leipzig. Deut. Landwirt. mit Mitt. der Deut. Landwirtschaftsgesell. 1:59-61. Oct.1950. 18 D4822

25665 ZUCCHINI, I. What the Extension Service is. (In Italian.) Humus 6(10):24-25. Oct.1950. 16 H88

#### Leadership

25666 OKLAHOMA. AGRICULTURAL AND MECHANICAL COLLEGE. EXTENSION DIV. 4-H junior leadership. Okla. Agr. Col. Ext. C. 530,8 p. n.d. 275.29 Ok41C

#### Rural Organizations and Movements

25667 ABRAHAMSEN, M. A. Purchasing co-ops pace farmers' supply needs. News Farmer Coop. 17(10):10-11, 16. Jan.1951. 166.2 N47

25668 ALADJEM, R. La Société Royale d'Agriculture. Feuilles Agr. 7(65):35-58. Oct./Dec.1949. 24 F43

In Egypt.

25669 ALBERTA FEDERATION OF AGRICULTURE. Directors' reports and financial statement, tenth annual meeting. Calgary,1950. 31 p. 7 AL17M

25670 ALLGEMEINER VERBAND LANDWIRTSCHAFTLICHER GENOSSENSCHAFTSWESSEN IN ÖSTERREICH. Bericht über die tätigkeit im jahre 1949. Wien, 1950. 121 p. 280.29 AL53

25671 AMERICAN FARM BUR. FEDERATION. Resolutions adopted at 32nd annual convention. Amer. Farm Bur. Fed. Off. News Let. 29(51):3-8. Dec.25,1950. 280.83 Am3W

25672 ANTONIO, F. D'. Legal nature of syndical associations. (In Italian.) Molini d'Italia 1:55-56. May 1950. 298.8 M73

25673 ARTIGAS GONZALEZ, J. La juventud campesina de EE. UU. se adiestra para el futuro en los "Clubs 4 H." Pampa Argentina 23(276):24-25. Nov.1950. 9 P19

25674 BOERENBOND BELGE. Rapport sur l'exercice 1949. Louvain,1950. 136 p. 13 B63

25675 CHATER, S. W. Protecting the co-op-shareholder. Primary Prod. [Cape Town] 25(39):19. Oct.6, 1950. 281.8 P93

25676 CISNEROS FALCONI, C. Las cooperativas en el Ecuador. Unión Panamér. Div. de Asuntos Sociales y de Trab. Coop. 1950(9):10-24. Sept.1950. 150.9 C782

25677 DAVIDS, R. C. Country Women of the World speak out. Farm J. 75:74,103-104. Jan.1951. 6 F2212

25678 DOTY, W., DREIER, W. H., and MILLER, J. Future Farmers out of school. Agr. Educ. Mag. 23:127. Dec.1950. 275.8 Ag8

25679 ELLIS, F. E. Income of Ontario co-ops nears \$50 millions. Family Herald & Wk. Star 81(51):5,8. Dec.21,1950. 7 F21

25680 FARRINGTON, R. L. What's ahead in co-operative finance. Mgr. Forum 1950(8):5-7. Nov.1950. 280.28 M312

25681 FELTS, D. M. When farmers work together. Countryman [Burford] 42:309-315. Winter 1950. 281.28 C832

Cooperation in various activities.

25682 GARDNER, K. B. Farmers' interest in their marketing and purchasing cooperatives, 1949. U. S. Farm Credit Admin. Misc. Rpt. 145,2 p. Nov.1950. 166.3 M68

25683 GARDNER, K. B. Good business practices have speeded progress. News Farmer Coop. 17(10):24, 26. Jan.1951. 166.2 N47

25684 GOMES, P. Agriculture and cooperation. (In Portuguese.) Divulg. Coop. 12:13-14. Oct.1950. 28-.28 R47

Denmark.

25685 HECKMAN, J. H. Guide for teaching farmer cooperation. U. S. Farm Credit Admin. C. E-34,33 p. Ref. May 1950. 166.2 C4926

25686 HECKMAN, J. H., and LEBEAU, O. R. Membership problems grow with co-ops. News Farmer Coop. 17(10):22-23. Jan.1951. 166.2 N47

25687 HEDGES, H. Looking into the next half century. News Farmer Coop. 17(10):25-26. Jan.1951. 166.2 N47

25688 HUNGARY. MINISTRY FOR FOREIGN AFFAIRS. INFORMATION DEPT. Producers' cooperatives in Hungarian agriculture. n.p.,1950. 7 p. (Facts and Figures on Hungary) 280.2 H89

25689 KNAPP, J. G. Answering tall tales about co-ops. Grain Prod. News 3(7):11-13. Dec.1950. 286.81 G764

25690 KNAPP, J. G. Co-operation is business. Butter-fat [Vancouver] 28(10):2. Jan.1951. 44.8 B98 Also in Calif. Citrog. 36:120-122. Jan.1951. 80 C125; Grain Prod. News 3(7):19-20,25. Dec.1950. 286.81 G764

25691 KNAPP, J. G. Cooperatives and American business. Coop. Pou'tryman 15(12):18-21,33. (Concl.) Dec.1950. 47.8 C782

25692 KNAPP, J. G. Farm cooperatives benefit local communities. Coop. Dairy Farmer 30(3):3-4. Dec.1950. 280.28 C7825



- 25693 MCKAY, A. W. A half century of co-op growth. *News Farmer Coop.* 17(10):3-4,26. Jan.1951. 166.2 N47
- 25694 MASSACHUSETTS STATE GRANGE. Proceedings of the seventy-eighth annual session, Boston, Massachusetts, October 24, 25, 26, 1950. Boston,1950. 154 p. 4 M385
- 25695 MOORE, C. B. Twenty-five years in retrospect. (Sum.) *West. Grower & Shipper* 22:15,26. Dec. 1950. 280.38 W52  
Western Growers Association.
- 25696 NOGYO kyodo kumiai meibo [Directory of agricultural cooperatives]. Tokyo,Zenkoku Shinbun Joho Nogyo Kyodo Kumiai Rengokai,1950. 354 p. 225 N68
- 25697 PASCUAL, J. A. La Confederación Europea de la Agricultura, en Estrasburgo. *Cooperación* [Madrid] 104:20-23. Oct.1950. 280.28 C7875
- 25698 PATRONS OF HUSBANDRY-NATIONAL GRANGE. 1951 official roster. Washington,1950. 8 p. 4 P272Q
- 25699 PILLAI, A. R. Co-operation in our State—a retrospect. *Madras J. Co-op.* 42:143-148. Sept.1950. 280.28 M26
- 25700 PUYAL, V. Influencia de la cooperación en la racionalización de la agricultura y elevación campesina. (Extr.) *Cooperación* [Madrid] 104:24-27. Oct.1950. 280.28 C7875
- 25701 ROBINSON, J. L. Co-ops win place in educational systems. *News Farmer Coop.* 17(10):23-24. Jan. 1951. 166.2 N47
- 25702 ROHRBECK, E. H. Preview of 4-H activities at the 1951 Farm Show. *Pa. Farmer* 144:12-13,51. Jan. 13,1951. 6 P383
- 25703 SINGAPORE. DIRECTOR OF CO-OPERATION. Annual report, 1949. Singapore,1950. 10 p. 280.29 S16
- 25704 SMITH, L. P. F. Agricultural organisation in Norway. *Agr. Ireland* 7:276-277. Dec.1950. 10.5 Ag8  
Cooperative organizations.
- 25705 SOCIEDAD NACIONAL AGRARIA. Memoria, año social 1949-50. *Vida Agr.* [Lima] 27:787-789,791, 793,795-796. (Cont.) Sept.1950. 9.8 V66  
Peru.
- 25706 STEPHENS, D. L. Area organization as a help to F.F.A. in southeast Georgia. *Agr. Educ. Mag.* 23: 133. Dec.1950. 275.8 Ag8
- 25707 STORNES, A. Observations on cooperation in agriculture. VIII. (In Norwegian.) *Landbrukstidende* 56: 812-814. Oct.11,1950. 11 L236
- 25708 TABLANTE, N. B. Legal phases of cooperative associations. *Agr. & Indus. Life* 12(11)13,37. Nov. 1950. 25 Ag8
- 25709 TAYLOR, J. I. Forward Oklahoma Farm Bureau. *Okla. Farm Bur. Farmer* 2(6):3,5-7. Nov.1950. 275.293 Ok4  
Includes the 1950 Oklahoma Farm Bureau resolutions.
- 25710 TUCKER, M. F. Illinois Farm Supply Company completes most successful year. *Ill. Agr. Assoc. Rec.* 28(12):14-17. Dec.1950. 6 IL62
- 25711 U. S. EXTENSION SERV. Observance of National 4-H Club Week, March 3-11, 1951. Theme: Working together for world understanding, by G. L. Warren. Washington,1950. 32 p. 1.913 F3N2142
- 25712 U. S. FARM CREDIT ADMIN. Motion picture films available on cooperation. U. S. Farm Credit Admin. Inform. & Ext. Div. Misc. Rpt. 144,18 p. Nov.1950. 166.3 M68
- 25713 UPPSALA LANS HUSHALLNINGSSALLSKAP. Handlingar 1950 [Proceedings 1950]. Uppsala,1950. 255 p. 11 Up6
- 25714 VICENS BATALLA, J. Como puede usted mejorar su cooperativa. *Lucha* 2(17,1.e.18):15. Dec.1950. 280.28 L96
- 25715 WELLS, M. J. Chapter meeting contests believed to be useful in the lives of F.F.A. members. *Agr. Educ. Mag.* 23:132. Dec.1950. 275.8 Ag8
- 25716 WIETING, C. M. The Ohio Farm Bureau Cooperative Association moves ahead. *Internatl. Co-op. Rev.* 43:335-336. Dec.1950. 280.28 In8B
- 25717 ZIEGLER, L. F. Let's make cooperation work more effectively. *Pure Milk* 24(11):4. Nov.1950. 280.28 P97  
For farmers.

## RURAL SOCIAL PSYCHOLOGY

- 25718 EDSALL, R. L. What kinds of ads attract farmers? *Printers' Ink* 233(11):23-25,55. Dec.15,1950. 238.8 P932
- 25719 HUMMEL, L. E. The music experiences and attitudes of rural children in northeast Missouri. *Mich. U. Microfilm Abs.* 10(4):107-108. 1950. 241.8 M58
- 25720 LITTLE, R. C., and TATE, M. T. Some effects of commuting on the adjustment of elementary students. *Rur. Sociol.* 15:322-327. Dec.1950. 281.28 R88
- 25721 NYE, I. Adolescent-parent adjustment—rurality as a variable. *Rur. Sociol.* 15:334-339. Dec. 1950. 281.28 R88
- 25722 SMART, M. A book list for parents. *N. Y. Agr. Col. Cornell Ext. B.* 802,16 p. Dec.1950. 275.29 N48E
- 25723 WILKENING, E. A. A sociopsychological approach to the study of the acceptance of innovations in farming. *Rur. Sociol.* 15:352-364. Dec.1950. 281.28 R88

## TRADE, FOREIGN AND INTERNATIONAL

- 25724 ALBERTARIO, P. Cereals and the new customs tariffs. (In Italian.) *Mollini d'Italia* 1:43-47. May 1950. 298.8 M73  
English summary, p. 40-41.
- 25725 ALBERTARIO, P. Italian agriculture in the framework of the new customs tariff. *Banca Naz. del Lav. Q. Rev.* 3:181-192. July/Sept.1950. 284.8 B226
- 25726 ALVARADO M., A. La exportación de ganado, divisas y pesca (documento de actualidad). *Rev. Agr. y Ganad.* 12(128):21-24. Sept.1950. 9.4 R327  
Colombia.
- 25727 AMERICAN RABBIT AND CAVY BREEDERS ASSOCIATION. Report of committee investigating prevailing traffic of Australian wild rabbit carcasses being offered for human consumption. *Small Stock Mag.* 35:10-11,14. Jan.1951. 48.8 P442  
Includes Report on examination of Australian and domestic (American) rabbit carcasses, by C. A. Slanetz.
- 25728 BELTRAN MONFERRER, J. M. Importación y exportación de productos pecuarios por el puerto de Barcelona. IV. Importación de lana. *B. de Divulg. Ganad.* [Valladolid] 7:160-164. June 1950. 49.9 Sp12
- 25729 BIRNIE-VISSCHER, F. C. E. The Congo market for canned products. *Union So. Africa. Dept. Com. & Indus. Com. & Indus.* 8:191-192. Jan.1950. 286.9 So8
- 25730 BOALS, G. P. Review of the first year of the world wheat pact. *Nowest. Miller* 244(11):37-41,43. Dec.12,1950. 298.8 N81  
International Wheat Agreement.
- 25731 BOTTOMLEY, A. G. Livestock and the export drive. *Brit. Agr. B.* 3:149-153. 1950/51. 10 B776
- 25732 BRAND, J. H. Trade with Canada—1949. *Union So. Africa. Dept. Com. & Indus. Com. & Indus.* 8: 445-447,452. May 1950. 286.9 So8
- 25733 BRAZIL. SERV. DE ESTATÍSTICA ECONÓMICA E FINANCEIRA. Comércio exterior do Brasil por mercadorias, segundo os países, vol. II, 1945-1946 [Foreign trade of Brazil by commodities, according to countries, vol. II, 1945-1946]. Rio de Janeiro,1950. 251 p. 255.3 F292
- 25734 BRAZIL. SERV. DE ESTATÍSTICA ECONÓMICA E FINANCEIRA. Comércio exterior do Brasil por países segundo as mercadorias, vol. IV, 1945-1946 [Foreign trade of Brazil by countries according to commodities, vol. IV, 1945-1946]. Rio de Janeiro,1950. 288 p. 255.3 F292
- 25735 BRODIE, F. A. An Australian discusses lamb importations. *Natl. Wool Grower* 40(12):11-12. Dec.1950. 45.8 N21N
- 25736 BRUNNINGHAUSEN, H. La bataille de l'exportation. *Monit. Textile* 12:1639,1641,1643,1645. Dec. 1950. 304.8 M74  
Belgian wool.
- 25737 CAMARA OFICIAL SINDICAL AGRARIA DE BARCELONA. Primera campaña de exportación de lechuga "trocadero." *Cám. Ofic. Sind. Agr. de Barcelona. P. Divulg.* 8,20 p. 1950. 15 C14P
- 25738 CANDIOLI, P. Orientation of the fruit industry: exportation. (In Italian.) *Terra* [Firenze] 61(51):1. Dec.17,1950. 16 T274
- 25739 CANSTEIN, FREIHERR VON. Weinwerbung tut not! *Weinbau* 5:287-288. Aug.6,1950. 390.8 W432  
German trade.



- 25740 CLAVADETSCHER, C. Die neue schlachtviehordnung. Schweiz. Bauer 104(137):13-14. Nov.24, 1950. 17 Sch95  
Trade.
- 25741 CONSERVATIVE AND UNIONIST PARTY ORGANISATION. Economic situation and statistical survey. London, 1950. 26 p. (Notes on Current Politics. 1950, No. 6) 280.171 C76E  
Includes imports and exports of agricultural products.
- 25742 CORNELSEN, E. Wein im deutschen aussenhandel. Weinbau 5:267-268. July 16, 1950. 390.8 W432
- 25743 COSTA RICA. DIRECCIÓN GENERAL DE ESTADÍSTICA. Estadística de comercio exterior de enero a mayo de 1949, importación; y de enero a junio de 1949, exportación. San José, 1949. 14 p. 254 C82Est
- 25744 DAHLGREN, E. Foreign food trade in the year 1949. (In Swedish.) Sweden. Stat. Jordbrämsd. Jordbrekon. Meddel. 12:288-299. Oct. 1950. 257.3 J76
- 25745 DAVIS, M. B. Misión Agrícola Norteamericana ante el Gobierno de Panamá. Rev. de Agr., Com. e Indus. [Panama] 8(110):33-34. Oct. 1950. 8 R3291
- 25746 DAY, G. H. Outlook for imports of United States dairy products in Venezuela. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 53,42 p. July 1950. 1.943 F763
- 25747 EL SALVADOR. DIRECCIÓN GENERAL DE ESTADÍSTICA. Anuario estadístico del comercio exterior e interior de la República de El Salvador correspondiente al año de 1948. Tomo II (sección de comercio exterior e interior). San Salvador, 1950. 420 p. 254 Sa52  
Includes trade statistics.
- 25748 GIBBS, J. B. The market for United States tobaccos in the Netherlands. (In Dutch.) Tabakspiant 77:252. Nov.7, 1950 286.89 T114
- 25749 GLÜCK, H. Klare exportrichtlinien nötig. Weinbau 5:380. Sept.17, 1950. 390.8 W432  
Germany.
- 25750 GOMES, A. O. A balance in the Plata Basin. (In Portuguese.) Observador Econ. e Financ. 15(177):67-71. Oct. 1950. 280.8 Ob72  
Trade in Argentina and Uruguay.
- 25751 GT. BRIT. CUSTOMS AND EXCISE DEPT. STATISTICAL OFF. Annual statement of the trade of the United Kingdom with British countries and foreign countries 1948 compared with the years 1946-1947. London, 1950. v.2(sup.)-3. 256.03 C96S
- 25752 INDIAN CENTRAL COTTON COMMITTEE. Exports by sea of Indian raw cotton classified by varieties, 1947-48 season. Indian Cent. Cotton Comt. Statis. L. 4,4 p. Jan. 1950. 72.9 In233St
- 25753 JANKOWSKI, B. Grossbritannien auch heute noch das grösste eler-einfuhr-land der welt. Eler-, Wild-, Geflügel- u. Honig-Markt 2(46):1-3. Nov.16, 1950. 280.38 E13
- 25754 KEIJSER, J. S. Agriculture and liberalizing of European trade and payment dealings. (In Dutch.) Landbouwk. Tijdschr. [Wageningen] 62:827-840. Oct. 1950. 105.2 Or3
- 25755 KRUSE, E. F. Some Wheat Agreement problems. Nowest. Miller 245:26,30,50. Jan.2, 1951. 298.8 N81
- 25756 LAMBERT, R. E., JR. Hazards of seed importing. Seed World 67(12):13-14,46-47. Dec.15, 1950. 61.8 Se52
- 25757 LARTHE, R. Les possibilités d'avenir du commerce des fruits. J. de la France Agr. 6:1169,1174-1175. Oct.20/26, 1950. 14 J829
- 25758 LEDIN, G., and DANVIG, A. M. The Scandinavian custom union and the liberalizing of trade. (In Swedish and Danish.) Gard-Tid. 66:477-479. Oct.25, 1950. 80 G192
- 25759 LEVIN, M., and WEIZMANN, B. The citrus industry in Spain. A survey prepared at the request of the Citrus Marketing Board, Tel-Aviv. Tel-Aviv? 1949. 50 p. 281.393 L57  
Trade and culture.
- 25760 LEWIS, J. R. Is the Australian Merino sheep embargo justified; writer contends that it is not warranted on economic grounds. Merino Breeders' J. 12(4):12. Oct. 1950. 45.8 So8  
Text also in Afrikaans.
- 25761 MARTIN, G. R. The Nogales deal. Fruit & Veg. Rev. 12(9):17. Dec. 1950. 80 C1224  
Mexican vegetable trade.
- 25762 MURTI, V. N. Foreign demand for Indian hides and skins. Reserve Bank India. B. 4:691-698. Oct. 1950. 284.9 R31B
- 25763 NALDONI, N. What we acquire in Africa. (In Italian.) Affrica 5:267-271. Nov. 1950. 280.8 Af2  
Italian imports from Africa.
- 25764 NATIONAL EGG PRODUCTS ASSOCIATION. National Egg Products Association recommendations [concerning the importation of dried eggs and other products from Communist China]. Chicago, 1950. 2 p. 281.347 N21
- 25765 RIET, G. VAN T. Export of apples to England. (In Dutch.) Fruitteelt 40:787. Oct.12, 1950. 86 N28
- 25766 SHAW, C. L. Canada to drop canned food trade barriers. West. Canner & Packer 41(13):41. Dec. 1950. 286.83 W522
- 25767 SOUZA, A. O. DE. Coffee and the value of the cruzeiro. (In Portuguese.) Lav. Arroz. 4(45):3-6,8-12. Sept. 1950. 59.8 L39  
Trade.
- 25768 STAUNING, A. The apple export. (In Danish.) Gard-Tid. 66:481-482. Oct.25, 1950. 80 G192  
Denmark.
- 25769 STAUNING, A. Observations on customs unions. (In Danish.) Gart.-Tid. 66:547-548. Dec.13, 1950. 80 G192  
Chiefly in Scandinavia.
- 25770 STOCKHOLM. KONJUNKTURINSTITUT. Konjunkturläget hösten 1950. [The economic condition in the fall 1950.] Konjunkturinst. Stockholm. Meddel. Ser. A 18,118 p. 1950. 280.9 St6M  
English summary and table of contents.  
Includes trade and agricultural production.
- 25771 STRUTT, C. W. Future prospects for Australian primary products on the United Kingdom market. So. Austral. Dept. Agr. J. 54:126-131. Oct. 1950. 23 So84
- 25772 SWITZERLAND. DIRECTION GENERALE DES DOUANES FEDERALES. Rapport annuel 1949. II. Berne, 1950? 105 p. 262 D85R  
Includes a survey of trade in agricultural products.
- 25773 TELEKI, A. "Exportieren oder sterben!" Betrachtungen zum weinexport-problem. Österr. Weintzg. 5:213. Oct.30, 1950. 390.8 Os7
- 25774 THERON, P. H. Trade between South Africa and the Netherlands during 1949. Union So. Africa. Dept. Com. & Indus. Com. & Indus. 8:435-437. May 1950. 286.9 So8
- 25775 VAN DER POST, A. P. A review of trade between the Union and the United Kingdom during 1949. Union So. Africa. Dept. Com. & Indus. Com. & Indus. 8:429-434. May 1950. 286.9 So8
- 25776 VAN DYNE, G. W. Trends in South and East Africa affecting United States trade in tobacco. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 55,28 p. Oct. 1950. 1.943 F763
- 25777 VISORLA, O. The atomic bomb of the agricultural French-German pool. (In Italian.) Lotte Contadine 1:7. July 5, 1950. 16 L91
- 25778 VOIGT, G. G. South African trade with Belgium in 1949. Union So. Africa. Dept. Com. & Indus. Com. & Indus. 8:441-444. May 1950. 286.9 So8
- 25779 WELLMAN, H. R. The market for dried fruit in Belgium. Calif. Fruit News 122(3260):3-4. Dec.30, 1950. 80 C12
- 25780 WESTERN SAMOA. COLLECTOR OF CUSTOMS. Trade, commerce, and shipping for the calendar year 1949. Apia, 1950? 30 p. 272 W52

#### FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

#### GENERAL

25781 ALLISON, J. B. Some relationships between diet, protein stores and plasma proteins. In Robert Gould Research Foundation. Symposia on nutrition, v. 2. Plasma proteins, edited by J. B. Youmans, p.123-137. Ref. Springfield, Ill., Thomas, 1950. 386.3 R54



- 25782 BENAÏM PINTO, H., and GÓMEZ ORTEGA, O. L. Contribución al estudio de la anemia perniciosa en Venezuela; presentación de cinco casos. Arch. Venezol. de Nutr. 1:39-58. Ref. June 1950. 389.8 Ar22 English summary.
- 25783 BRIWA, K. E. Quick breads. Maine. Agr. Col. Ext. B. 404, 8 p. Oct. 1950. 275.29 M281B Recipes.
- 25784 CANNON, P. R. Recent advances in nutrition, with particular reference to protein metabolism. Lawrence, Kansas, U. Kansas Press, 1950. 74 p. (Porter Lectures, Ser. 14) 386.3 C16
- 25785 CARACAS. INSTITUTO NACIONAL DE NUTRICIÓN. Venezuela en las Conferencias Latinamericanas de Nutrición. Inst. Nac. de Nutr. Ser. de P. 6, 131 p. Oct. 1950. 389.9 C17
- 25786 CHOW, B. F. The role of dietary proteins on plasma protein regeneration. In Robert Gould Research Foundation. Symposia on nutrition, v. 2. Plasma proteins, edited by J. B. Youmans, p. 108-122. Ref. Springfield, Ill., Thomas, 1950. 386.3 R54
- 25787 CONFERENCE ON NUTRITION PROBLEMS IN LATIN AMERICA. 2d, RIO DE JANEIRO, 1950. Report. Washington, Food and Agriculture Organization of the United Nations, 1950. 34 p. 389.9 C7622
- 25788 CORYELL, M. N., and others. Nutritional status of children. XIV. Amer. Dietet. Assoc. J. 26:979-990. Ref. Dec. 1950. 389.8 Am34  
M. M. Rutledge, M. C. Drummond, F. Meyer, F. Mead, and E. F. Beach, joint authors.
- 25789 DARBY, W., and others. Understand nutrition and live longer. U. Chicago Round Table 636, 18 p. June 4, 1950. 280.9 Un34  
A. Keys, S. Soskin, and R. Wilder, joint authors.
- 25790 DAVID, M. Problème de la nutrition en Tunisie. B. Econ. et Social de la Tunisie 46:49-50. Nov. 1950. 280.8 B874
- 25791 DILLSTONE, F. Diets for normal children. Housecraft 23:228-230. Dec. 1950. 321.8 H817
- 25792 ELMAN, R. Clinical problems in hypoproteinaemia due to protein deprivation. In Robert Gould Research Foundation. Symposia on nutrition, v. 2. Plasma proteins, edited by J. B. Youmans, p. 138-154. Ref. Springfield, Ill., Thomas, 1950. 386.3 R54
- 25793 FORMAN, J. What about vitamins? Amer. Acad. Appl. Nutr. Mon. Newslet. J. 3(11):6-9. (To be cont.) Nov. 1950. 389.9 Am352  
In human and animal nutrition.
- 25794 GÓMEZ, F., and others. Estudios sobre el niño desnutrido; la recuperación del niño desnutrido, empleando proteínas de origen vegetal y proteínas de origen animal. Ofic. Sanit. Panamer. B. 29:1227-1243. Ref. Dec. 1950. 449.9 P192B  
R. Ramos, B. Bienvenid, and J. Cravioto joint authors. English summary.
- 25795 GOTLANDS LÄNS HUSHÄLLNINGSSÄLLSKAP. Årsberättelse 1949 [Annual report of the Gotland Province Agricultural Association]. Gotlands Läns Hushälsk. Handl. 1949, 130 p. 1950. 11 G71
- 25796 GOUNELLE, H. Studies concerning nutritional edema and proteins. In Robert Gould Research Foundation. Symposia on nutrition, v. 2. Plasma proteins, edited by J. B. Youmans, p. 195-237. Ref. Springfield, Ill., Thomas, 1950. 386.3 R54
- 25797 GUZMAN BARRON, A., and others. Estudios de nutrición de La Selva. Cong. Peruano de Quim. Actas y Trab. 1949(1):296-309. 385 C763  
J. Mejía Chávez, P. Salomón, and M. Bocanegra, joint authors.
- 25798 HEGSTED, D. M., and others. Studies on protein deficiency and temperature in relation to edema. In Robert Gould Research Foundation. Symposia on nutrition, v. 2. Plasma proteins, edited by J. B. Youmans, p. 238-251. Ref. Springfield, Ill., Thomas, 1950. 386.3 R54  
N. Zamcheck, C. F. Wang, and M. B. Black, joint authors.
- 25799 HUGHES, D. Quality, taste, color; these researchers test the food you eat. Wis. Country Mag. 44(2): 13-14. Nov. 1950. 276.8 St9  
Food research by the Home Economics Department, University of Wisconsin.
- 25800 JARRÍN VERA, J. A. L. La influencia alimenticia y el significado del magnesio en el cáncer. Cong. Peruano de Quim. Actas y Trab. 1949(1):386. 385 C763
- 25901 KING, C. G. Food, agriculture and health. Denison U. Sci. Lab. J. 42:1-5. Apr. 1950. 500 G76
- 25802 KRAUSS, W. E. Nutrition research program. Flour & Feed 51(7):16. Dec. 1950. 298.8 F66
- 25803 KUON CABELLO, J. Alimentación protéica en el Cuzco. Cong. Peruano de Quim. Actas y Trab. 1949(2):499-504. 385 C763
- 25804 LIENDO COLL, P. La nutrición y sus campos de acción. Arch. Venezol. de Nutr. 1:5-38. June 1950. 389.8 Ar22 English summary.
- 25805 LOWENBERG, M. A program in community nutrition. J. Home Econ. 43:12-13. Jan. 1951. 321.8 J82
- 25806 MCCOLLUM, E. V. Fifty years of progress in nutritional research. Sci. Mon. 71:376-379. Dec. 1950. 470 Sci23
- 25807 MCMAHON, G., and BUCHANAN, E. B. Dietary consultation—a service for small institutions. IV-V. Amer. Dietet. Assoc. J. 26:958-965. Ref. Dec. 1950. 389.8 Am34  
IV, by G. McMahon; V, by E. B. Buchanan.
- 25808 MAYER MARJORIE, J. La nutrición ocupa lugar destacado en las tareas de la F. A. O. Aliment. Nac. 10(175):8-11, 14. Sept. 10, 1950. 389.8 AL42
- 25809 MILLER, E., and SHIPLEY, F. Come to our party; 4-H foods project, phase IV. Utah. State Agr. Col. Ext. B. 194, 28 p. Apr. 1950. 275.29 Ut1
- 25810 MILLER, E. Enjoy yeast breads, both plain and fancy. Utah. State Agr. Col. Ext. B. 201, 47 p. June 1950. 275.29 Ut1
- 25811 NATIONAL VITAMIN FOUNDATION. Annual report of the scientific director, 1949. New York, 1950. 52 p. 389.9 N2124
- 25812 PILCHER, H. L., YOUNG, C. M., and WILHELMY, O., JR. Nutritional status survey, Groton Township, New York. IV. Consumption of food groups. Amer. Dietet. Assoc. J. 26:973-978. Dec. 1950. 389.8 Am34
- 25813 PLANCHART, A. Estudio nutricional de la población obrera de Chacao durante el año 1948. Arch. Venezol. de Nutr. 1:59-82. June 1950. 389.8 Ar22 English summary.
- 25814 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Compañero empleado: el almuerzo no es problema si organizamos una cafetería cooperativa. P. R. Agr. Col. Ext. Dept. Coop. Fol. 9, 6 p. Sept. 1950. 275.29 P962F
- 25815 RAWLEY, E., LOW, J. B., and GREAVES, E. O. Venison; its care and cooking. Utah. State Agr. Col. Ext. B. 200, 21 p. June 1950. 275.29 Ut1
- 25816 RITCHIE, J. A. S. Teaching better nutrition; a study of approaches and techniques. F. A. O. Nutr. Studies 6, 148 p. Nov. 1950. 389.9 F735Fan  
Includes a chapter on food patterns.
- 25817 ROBERT GOULD RESEARCH FOUNDATION. Symposia on nutrition, v. 2. Plasma proteins, edited by J. B. Youmans. Springfield, Ill., Thomas, 1950. 352 p. 386.3 R54
- 25819 RUTGERS UNIVERSITY. BUR. OF BIOLOGICAL RESEARCH. Cooperative determinations of the amino acid content, and of the nutritive value of six selected protein food sources, 1946-1950. New Brunswick, 1950. 114 p. 389.1 R93
- 25819 SMITH, C. A. Nutrition of premature infants. Nutr. Rev. 8:353-355. Dec. 1950. 389.8 N953
- 25820 U. S. OFF. OF EXPERIMENT STATIONS. Research in foods, human nutrition, and home economics at the land-grant institutions; list of published and processed reports, October 1949-October 1950, compiled by C. Justin, and G. Adams. Washington, 1950. 32 p. 1.9 Ex6Ho
- 25821 VEEN, A. G. VAN. Nutrition. (In Dutch.) Chron. Nat. 106:360-367. Ref. July 1950. 514 B31  
In Indonesia.
- 25822 VERDON, J. Comment modifier le régime alimentaire? B. des Agr. 46(11):44. Nov. 1950. 7 B872  
Infants.
- 25823 WALSH, M. J. Are Americans the best fed people in the world? Can you become diseased by what you do not eat? Are modern foods suitable for modern living? Amer. Acad. Appl. Nutr. Mon. Newslet. J. 3(11): 3-5. Nov. 1950. 389.9 Am352
- 25824 WEITZEL, G. Ernährungstherapie mit fettsäuren. Fette u. Seifen 52:670-675. Ref. Nov. 1950. 384 C422



25825 WISCONSIN, UNIVERSITY, COLLEGE OF AGRICULTURE, AGRICULTURAL EXTENSION SERV. Milk and eggs in our meals. Wis. Agr. Col. Ext. C. 4-H 46, rev., 24 p. July 1950. 275.29 W75Cf  
Chiefly recipes.

25826 WOODS, R. Dynamic interrelationships in amino acid nutrition. Borden's Rev. Nutr. Res. 11:91-101. Ref. Nov. 1950. 389.8 B64

25827 YEO, E. J. Public health nutritionists work to aid many people. J. Home Econ. 43:38. Jan. 1951. 321.8 J82

#### FOOD HABITS

25828 ROWNTREE, J. I. Influences on children's food habits. J. Home Econ. 42:805-807. Dec. 1950. 321.8 J82

25829 TRUEMAN, K. Vegetarianism—England, 1888. Veg. News 29:103-106. Winter 1950. 389.8 V523

#### NUTRITIVE AND VITAMIN CONTENT

25830 AKIYA, T., MASUHARA, T., and HAYAKAWA, S. On the nutritive value of ethyl ester of spermaceti head oil. (In Japanese.) Tokyo. Food Res. Inst. Rpt. 3: 167-172. June 1950. 389.9 T57  
English summary.

25831 ASENJO, C. F., and others. Niacin content of tropical foods. Food Res. 15:465-470. Nov./Dec. 1950. 389.8 F7322

O. de Borinquen Segundo, A. I. Muñiz, and A. M. Canals, joint authors.

25832 BLAIZOT, J., and BLAIZOT, S. Essai biologique sur l'activité vitaminique d'un extrait caroténé retiré de l'huile de palme. Oléagineux 5:634-638. Nov. 1950. 77.8 OL2

25833 CHAPMAN, C. B., GIBBONS, T., and HENSCHER, A. The effect of the rice-fruit diet on the composition of the body. New England J. Med. 243:899-905. Ref. Dec. 7, 1950. 448.8 N442

25834 CREMER, H. D. Einfluss von verarbeitung und konservierung auf bekömmlichkeit und nährwert von nahrungsmitteln. (Abs.) Angew. Chem. 62:483-484. Oct. 21, 1950. 384 Z33

25835 DUBOULOZ, P., and MARVILLE, R. Sur le dosage des facteurs vitaminiques A dans les aliments. II. Soc. de Chim. Biol. B. 32:815-823. 1950. 383 S01

25836 GROOT, E. H. Bijdrage tot de kennis van de voedingswaarde van boter [Contribution to the knowledge of the food value of butter]. Amsterdam. U. Lab. v. Physiol. Chem. en Nederland. Inst. v. Volksvoeding. Meded. 11(14), 84 p. Ref. 1949. 385 Am8  
English summary.

25837 HASSAN, H. H. Factors affecting the ascorbic acid content (vitamin C) of tomatoes. Mich. U. Microfilm Abs. 10(4):203-204. 1950. 241.8 M58

25838 JAFFE, W. G., BUDOWSKI, P., and GORRA, G. Estudio sobre el contenido de ácido ascórbico (vitamina C) en las principales frutas de Venezuela. Arch. Venezol. de Nutr. 1:83-106. June 1950. 389.8 Ar22  
English summary.

25839 JAFFE, W. G. El valor biológico comparativo de algunas leguminosas de importancia en la alimentación venezolana. Arch. Venezol. de Nutr. 1:107-126. Ref. June 1950. 389.8 Ar22  
English summary.

25840 JAMBOR, B. Le bilan de vitamines de la Hongrie. Cong. Internatl. des Indus. Agr. [Rapports] 1948(2):151-157. 1950. 388 C765

25841 JANSEN, B. C. P. The nutritive value of the potatoe. Cong. Internatl. des Indus. Agr. [Rapports] 1948(2):158-160. 1950. 388 C765

25842 KREHL, W. A., and WINTERS, R. W. Effect of cooking methods on retention of vitamins and minerals in vegetables. Amer. Dietet. Assoc. J. 26:966-972. Ref. Dec. 1950. 389.8 Am34

25843 LAL, G. B. Drink milk and live longer. Pure Milk 24(12):4. Dec. 1950. 280.28 P97

25844 MITCHELL, H. H. Nutritive factors in soybean products. In Markley, K. S., ed. Soybeans and soybean products, v. 1, p. 383-422. Ref. N. Y., Interscience, 1950. 60.3 M34

25845 MROZEK, Der wert der trinkmilch. Deut. Milchhandels Ztg. 72:678-679. Nov. 3, 1950. 44.8 D48  
Nutritive value.

25846 MURPHY, E. A., and DUNN, M. S. Nutritional value of peanut protein. Food Res. 15:498-510. Ref. Nov./Dec. 1950. 389.8 F7322

25847 PAREJA EGÜEZ, O. Una fruta a la que no le damos su verdadero valor. Campo [La Paz] 4(36/37):36-37. (To be cont.) Apr./May 1950. 9.1 C15  
Nutritive value.

25848 RANDOIN, L., and DIGAUD, A. Etude des vitamines et oligo-éléments minéraux dans les matières premières et les produits des industries alimentaires. (Sum.) Cong. Internatl. des Indus. Agr. [Rapports] 1948(2):129-150. Ref. 1950. 388 C765

25849 RESEARCH CORPORATION, WILLIAMS-WATERMAN FUND. Better health through better rice. New York, 1950. 36 p. 389.1 R31  
Enrichment for the Philippines.

25850 SUDER, H. B. Food value of Irish potatoes. (Abs.) Guide Post 27(11):18. Nov. 1950. 75.8 G94

25851 TEJADA, J. DE D. Tierra, azúcar y calorías. Tierra Libre (ser. 2) 14(9):9. Sept. 1950. 8 T443

25852 UNDERWOOD, E. J. The nutritional value of bread in the diet. Australas. Baker & Millers' J. 53(644): 55-56, 58. Oct. 1950. 298.8 Au7

25853 USUELLI, F. Biological aspects of production and consumption of milk. IV. Recent knowledge on the biological significance of some components of milk. (In Italian.) Humus 6(10):13-17. Oct. 1950. 16 H88

25854 USUELLI, F., and PIANA, G. New researches concerning the alimentary value of skimmed vitaminised milk. (In Italian.) Mondo del Latte 1950:548, 551, 553. Oct. 1950. 44.8 M74  
English summary.

25855 USUELLI, F. Old and recent acquisitions on the nutritive value of gluten. (In Italian.) Humus 6(9): 24-27. Sept. 1950. 16 H88  
In wheat.

25856 VAVICH, M. G., and KEMMERER, A. R. The carotenes of cantaloupes. Food Res. 15:494-497. Ref. Nov./Dec. 1950. 389.8 F7322

25857 VISCO, S. Flours enriched with nutritive substances. (In Italian.) Molini d'Italia 1:48-50. May 1950. 298.8 M73  
English summary, p. 41.

25858 WILDER, R. M. Ten years of enrichment of bread. Amer. Baker 19:18-19, 22, 58, 72. Jan. 1951. 389.8 Am36

25859 WILLIAMS, J. F. Wheat germ—a vitally important food supplement. Certified Milk 25(12):10-11. Dec. 1950. 44.8 C33

#### MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

#### GENERAL

25860 ALMANAQUE agrícola Ceres, año 1951, año X. Valladolid, 1950. 427 p. 15 AL6

25861 BERMUDA. DEPT. OF AGRICULTURE. Report for the year 1949. Bermuda, 1950. 27 p. 8 B45

25862 CHEESMAN, W. L. Blood and blood plasma substitutes; a selected bibliography, including literature and patent references. U. S. Bur. Agr. & Indus. Chem. AIC-289, 30 p. Oct. 1950. 1.932 A2Ag82

25863 COLÓN TORRES, R. La conservación de los recursos agrícolas de Puerto Rico. Rev. del Café 6(6): 33. (To be cont.) Nov. 1950. 8 R3295

25864 CONFERENCE ON THE SIMILARITIES AND DISSIMILARITIES BETWEEN VIRUSES ATTACKING ANIMALS, PLANTS AND BACTERIA. Viruses 1950; proceedings of a conference held March 20-22, 1950. Pasadena, Calif. Inst. Technol., 1950. 147 p. 448.2 C762

25865 CONGRES DE CHIMIE INDUSTRIELLE, 23, MILAN, 1950. Comités et bureaux programme et horaire resumes des conférences et des communications. Chim. & Indus. 64(3, spec. no.):39-130. Sept. 1950. 383 C42  
Includes papers of the 6th Congresso di Chimica Pura ed Applicata.

25866 CONGRESO PERUANO DE QUÍMICA, 3d, LIMA. Actas y trabajos, 17 al 23 de octubre de 1949. Lima, 1949. 2 v. 385 C763



- 25867 COULTER, F. C. The birth of a science. *Seed World* 67(11):20. Dec.1,1950. 61.8 Se52
- 25868 CRAWFORD, A. Gas warfare on rabbits. *New Zeal. Farmer* 71(17):12-13. Oct.12,1950. 23 N484
- 25869 DANSK HEDESELSKAB. Annual report of the Danish Heath Society, 1949-50. (In Danish.) *Hedeselsk. Tidsskr.* 71:205-230. (Concl.) July 20,1950. 11 H35
- 25870 FEIGINSON, N. I. Heredity and its variability. (In Russian.) In Shibanov, A. A., comp. *Sbornik statei po voprosam Michurinskoj biologii*, p.131-145. Moskva, Ministerstvo Prosveshcheniia RSFSR, 1950. 442 Sh6S
- 25871 FRYKHOLM, L. List of current Swedish agricultural serials, including veterinary medicine, forestry, game, and fisheries. (In Swedish.) *Lantbrakad. Tidskr.* 80:340-356. 1950. 104 Sw3  
English summary.
- 25872 GIBAN. Méthodes actuelles de lutte contre les rats. *Acad. d'Agr. de France. Compt. Rend.* 36:537-539. July 5,1950. 14 P215Bc
- 25873 GLUSHCHENKO, I. Reactionary genetics in the service of imperialism. (In Russian.) In Shibanov, A. A., comp. *Sbornik statei po voprosam Michurinskoj biologii*, p.88-93. Moskva, Ministerstvo Prosveshcheniia RSFSR, 1950. 442 Sh6S
- 25874 GRAVES, C. E. Looking at 1951—chemicals for agriculture in new era of usefulness. *West. Livestock J.* 29(6):12,14-15. Dec.15,1950. 6 F2278
- 25875 GREGG, J. R. Taxonomy, language and reality. *Amer. Nat.* 84:419-435. Nov./Dec.1950. 470 Am36
- 25876 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Available publications, agriculture and home economics. Urbana, 1950. 12 p. 275.29 IL62Av
- 25877 LANTBRUKS-KALENDER [Farm calendar] 36, 1951. Norrtälje, 1950. 360 p. 11 L292
- 25878 LIMERICK COUNTY. COMMITTEE OF AGRICULTURE. Annual report 1949. Limerick, 1950. 113 p. 10 L62
- 25879 MOORE, L. H. Pled Piper time. *N. Mex. Agr. Col. Ext. News* 30(12):4. Dec.1950. 275.29 N463Ex  
Rat control.
- 25880 MULDAL, S., and VALENTINE, D. H. Cytology, genetics and classification. *Nature [London]* 166:769-771. Nov.4,1950. 472 N21
- 25881 NARANJO, P. Doctrina y realizaciones de la nueva genética. *B. de Inform. Cient. Nac.* 3:143-160. July/Aug.1950. 475 B633
- 25882 NEUHAUS, W. Versuche mit  $\alpha$ -naphthylthioharnstoff als rattengift unter verwendung von rattengift "Aubing" der Chemischen Fabrik Aubing. *Z. f. Hyg. Zool. u. Schädlingsbekämpf.* 38:97-111. Ref. Apr.1950. 449.8 Z36
- 25883 NEW HAMPSHIRE. DEPT. OF AGRICULTURE. Report for the two years ending June 30, 1950. Concord, 1950. 77 p. 2 N45R
- 25884 NICARAGUA. SERV. TÉCNICO AGRÍCOLA. Report, 1950. Managua, 1950. 20 p. 8 N513
- 25885 NORTHWEST CONFERENCE ON ROAD BUILDING. Proceedings, 1950. Seattle, Engin. Expt. Sta., U. Washington, 1950. 112 p. 288.9 N81  
Includes material of agricultural interest.
- 25886 OOBUCHI, S. Nogyo zensho; kachiku, kakin, yogyo shiryō [The compendium of agriculture; cattle, poultry, fish-farming and feed stuff]. Tokyo, Maki Shobo, 1950. 400 p. 34.3 Oo8
- 25887 PALMER, E. L. Fish and fishing. *N. Y. Agr. Col. Ext. Cornell Rur. Sch. L.* 44(2), 32 p. Ref. Nov.1950. 275.29 N48R
- 25888 PETZSCH, H. Die bedeutung der kleinsäugertierforschung, insbesondere der muriden-forschung, für die schädlingkunde und den pflanzenschutz. *Anz. f. Schädlingsk.* 23:169-172. Nov.1950. 421 An9
- 25889 SOUTHERN RHODESIA. DEPT. OF AGRICULTURE AND LANDS. Report for the year ended 31st December, 1949. Salisbury, 1950. 10 p. 24 R344
- 25890 STEINIGER, F. Anwendungsmethoden des alpha-naphthylthioharnstoffs in der nagetierbekämpfung. *Nachrb. des Deut. Pflanzenschutzdienstes* 2:102-105. July 1950. 442.9 B832
- 25891 STICHTING VOOR DE LANDBOUW. Jaarverslag 1949 [Annual report of the Agricultural Foundation, 1949]. 's-Gravenhage, 1950. 391 p. 12 St5J
- 25892 TAIT, R. A. Rat control vital in defense program. *Farm & Gard. [Watertown]* 1950:8. Dec.16,1950. 6 F234
- 25893 TANGANYIKA. DEPT. OF AGRICULTURE. Annual report, 1948. Dar es Salaam, 1950. 173 p. 24 T15
- 25894 TECHNICAL INFORMATION SERV., WASHINGTON, D. C. Subject index (annotated) to Bibliography of scientific and industrial reports, 1946-1949. Pt. 1, agricultural chemicals. Washington, 1950. 43 p. 241.11 T22
- 25895 TUNBLAD, B. Impressions from an International Crop Protection Congress. (In Swedish.) Sweden. Stat. Växtskyddsanst. Växtskyddsnotiser 1950: 26-31. May 1950. 464.9 Sw3V  
Chiefly on economic poisons.
- 25896 U. S. DEPT. OF AGRICULTURE. LIBRARY. A list of the publications of Walter J. Roth. Washington, 1951. 1 p. Typewritten.
- 25897 U. S. DEPT. OF AGRICULTURE. LIBRARY. ALBUQUERQUE BR. A partial list of publications of Dr. W. Lawrence Balls. Albuquerque, 1950. 5 p. Type-written.
- 25898 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Annual report, 1949/50. Washington? 1950. 28 p. 1 In3R
- 25899 U. S. DEPT. OF AGRICULTURE. OFF. OF PLANT AND OPERATIONS. Report of the director, 1949/50. Washington, 1950. 15 p. 1 Op2
- 25900 U. S. DEPT. OF AGRICULTURE. OFF. OF THE SOLICITOR. Report of the solicitor, 1949/50. Washington, 1950. 38 p. 1 Ag84
- 25901 VERMONT. COMMISSIONER OF AGRICULTURE. Agriculture of Vermont; twenty-fifth biennial report 1949-1950. Montpelier, 1950. 89 p. 2 V593
- 25902 WALLACE, G. J. In support of the barn owl. *Mich. Agr. Expt. Sta. Q. B.* 33:96-105. Nov.1950. 100 M58S

## HISTORY AND BIOGRAPHY

- 25903 ARNON, D. I. Dennis Robert Hoagland: 1884-1949. *Science* 112:739-742. Dec.22,1950. 470 Sci2
- 25904 BANKS, E. M. Wandersong. Caldwell, Idaho, Caxton, 1950. 309 p. 138 B223  
Frontier life of Henry Macdonald.
- 25905 BELOV, P. T. I. V. Michurin as a dialectic materialist. (In Russian.) In Shibanov, A. A., comp. *Sbornik statei po voprosam Michurinskoj biologii*, p.93-117. Moskva, Ministerstvo Prosveshcheniia RSFSR, 1950. 442 Sh6S
- 25906 BUBLITZ, K. Der weg des deutschen bauern von seiner befreiung bis zur gegenwart. *Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell.* 1:175-176. Dec.1950. 18 D4822  
Historical aspects of German agriculture.
- 25907 CONNELL, E. A. Personalities in arboriculture. 1. Dr. P. P. Pirone. *Trees* 11:9-10, 18. Nov./Dec. 1950. 99.8 W52
- 25908 COULTER, F. C. Gregor Johann Mendel, the monastery gardener who founded the modern science of genetics. *Flower Grower* 38:18-20, 22. Jan.1951. 80 M72
- 25909 DENCKER. Geheimrat Filscher zum 80. geburtstag. *Landtechnik* 5:781. Nov.30,1950. 58.8 L235
- 25910 DICKISON, W. E. Trends in Michigan agriculture 1900-1945. *Mich. U. Microfilm Abs.* 10(4):58-59. 1950. 241.8 M58
- 25911 DR. VLADIMIR Škorić. Zagreb. U. Bot. Inst. *Izv.* 12/13:281-282. 1949. 451 Z1
- 25912 DR. ZDRAVKO Arnold. Zagreb. U. Bot. Inst. *Izv.* 12/13:280-281. 1949. 451 Z1  
Includes list of his publications.
- 25913 FUSSELL, G. E. The happy past. *Estate Mag.* 50:487-490. Dec.1950. 10 Es8  
Farming, food production, and equipment.
- 25914 HAUMAN, L. Émile de Wildeman (1866-1947). *Soc. Roy. de Bot. de Belg. B.* 82:5-7. Oct.1949. 451 B41B
- 25915 HITIER, H. L'agriculture au moyen âge de la fin de l'Empire Romain au XVI<sup>e</sup> siècle. *Agr. Prat.* 114: 567-568. Dec.1950. 14 J82
- 25916 HORST, M. A hundred years of farming in Pennsylvania. *Pa. Farmer* 144:6, 16, 24. Jan.13,1951. 6 P383
- 25917 HRYNIEWIECKI, B. January Kołodziejczyk (1889-1949). (In Polish.) *Soc. Bot. Poloniae. Acta* (1949-50)20:337-346. 1950. 451 So16  
French summary.  
Includes list of his publications.



25918 HRYNIEWIECKI, B. Wacław Niedziałkowski (1892-1949). (In Polish.) Soc. Bot. Poloniae. Acta (1949-50)20:331-335. 1950. 451 So16

French summary.

25919 HRYNIEWIECKI, B. Władysław Szafer et son oeuvre. 40-me anniversaire de son action scientifique. (In Polish.) Soc. Bot. Poloniae. Acta (1949-50)20:3-34. 1950. 451 So16

French summary.

Includes list of his publications.

25920 JAMOTTE, A. Gaston Delevoy. (17 février 1884-17 janvier 1950.) Inst. Roy. Colon. Belge. B. des Séances 21:125-132. 1950. 504 B836

Includes list of his publications.

25921 LORAN, G. J. In memoriam: Prof. Dr. J. H. Hartog. (In Dutch.) Tijdschr. v. Diergeneesk. 75:779-781. Oct.1,1950. 41.8 T431

25922 LOUIS, A. La vie et l'oeuvre botanique de Rembert Dodoens (1517-1585). Soc. Roy. de Bot. de Belg. B. 82:271-293. Ref. Mar.1950. 451 B41B

25923 MORRISON, H. Obituary notice: Percy Nichol Annand. Ent. Soc. Amer. Ann. 43:460. Sept.1950. 420 En82

25924 PORTERES, R. Vieilles agricultures de l'Afrique Intertropicale; centres d'origine et de diversification variétale primaire et berceaux d'agriculture antérieurs aux XVI<sup>e</sup> siècle. Agron. Trop. 5:489-507. Ref. Sept./Oct.1950. 26 Ag86

25925 ROSENTHAL, E. Famous South African wine pioneers. 11. Louis Cloete of Glen Dirk. Wine & Spirit 19(11):11. Nov.1950. 390.8 W725

25926 RUSSEL, M. L. Dr. William States Jacobs—"dean of Brahman cattle breeders". Zebu J. 2(7):10-11, 34. Dec.1950. 43.8 Z12

25927 SANDWICH, N. Y. Prof. M. L. Fernald. Nature [London] 166:848-849. Nov.18,1950. 472 N21

25928 SCHLANGE, E. S. Die landwirtschaft Gross-britanniens im zweiten weltkrieg. Weltwirt. Arch. 65: 313-343. Ref. 1950. 286.8 W462

25929 SMITH, W. W. Prof. R. J. D. Graham. Nature [London] 166:976-977. Dec.9,1950. 472 N21

25930 STAFFE, A. Ulrich Duerst. Schweiz. Arch. f. Tierheilk. 92:669-673. Nov.1950. 41.9 Sch9

25931 STEBBING, E. P. Mr. A. C. Forbes, O.B.E. Nature [London] 166:1056. Dec.23,1950. 472 N21

25932 STEBBING, E. P. Sir Alexander Rodger, O.B.E. Nature [London] 166:764. Nov.4,1950. 472 N21

25933 STEIN, E. Dem gedächtnis von Carl Erich Correns nach einem halben jahrhundert der vererbungswissenschaft. Naturwissenschaften 37:457-463. Oct.15, 1950. 474 N213

25934 STEPHENS, P. R. Farming in Canterbury. New Zeal. J. Agr. 81:405-413,415,417,419-420. Nov.1950. 23 N48J

Traces the history of farming in Canterbury and discusses the influence of that farming on agriculture in other parts of New Zealand.

25935 VOGELSANG, E. G. In memoriam; Prof. Dr. Alfonso Dampf Tenson. B. de Ent. Venezol. 8:129-130. Dec.31,1949, pub. June 15,1950. 421 B63

25936 WAGONER, T. Early farming in the Willamette Valley. Sunday Oregonian Farm, Home & Garden 1950:9. Dec.24,1950. 6 Su7

25937 ZWART, S. G. In memoriam; Prof. Dr. H. C. L. E. Berger. (In Dutch.) Tijdschr. v. Diergeneesk. 75:935-936. Dec.1,1950. 41.8 T431

#### HOME MANAGEMENT

25938 ARMSTRONG, O. Appropriate finishes. Okla. Agr. Col. Ext. C. 269,44 p. n.d. 275.29 Ok41C Sewing.

25939 GARDNER, R. H. Beauty treatments for furniture in three easy steps. Utah. State Agr. Col. Ext. B. 196,4 p. May 1950. 275.29 U11

25940 GARDNER, R. H. Making curtains and drapery. Utah. State Agr. Col. Ext. B. 198,15 p. June 1950. 275.29 U11

25941 HOFFMANN, G. M. Braided rugs. Wis. Agr. Col. Ext. C. 389,15 p. Sept.1950. 275.29 W75C

25942 MATHEIS, H. H. Reupholstering at home. Minn. U. Agr. Ext. B. 262,27 p. June 1950. 275.29 M66S

25943 METSON, N. K. Rural domestic economy in instruction in England. New Zeal. J. Agr. 81:393,395-396. Oct.1950. 23 N48J

25944 MILLER, M. M. Soap and other detergents, their selection and use on wash day. Minn. U. Agr. Ext. B. 261,8 p. June 1950. 275.29 M66S

25945 SMITH, C. C. Be nimble with your needle. Maine. Agr. Col. Ext. B. 407,22 p. Nov.1950. 275.29 M281B

25946 WEAVER, E. K., and COUSENS, D. W. A simple way to iron a shirt. N. Y. Agr. Col. Cornell Ext. B. 629,rev.,13 p. Nov.1950. 275.29 N48E

#### INTERNATIONAL RELATIONS

25947 BAYMA, C. Inter-American Institute of Agricultural Sciences. (In Portuguese.) Seleç. Agr. 5(54):15-17. Oct.1950. 9.2 Se4

25948 DODD, N. E. Fifty landmarks in the work of FAO. Foreign Agr. 15(1):19-23. Jan.1951. 1.9 Ec7For

25949 FOCARILE, C. The five years of existence of the FAO. (In Italian.) Agr. Ital. 1:609-611. Dec.1,1950. 16 Ag822

English summary.

25950 HARRAR, J. G. Cooperación internacional en las ciencias agrícolas. Mex. Ofic. de Estud. Espec. Fol. Misc. 3:9-10. Nov.1950. 8 M577Fm

25951 MCCORMICK, C. J. United States delegation report on FAO; special conference session, Washington, D. C., November 3-11, 1950. U. S. Dept. State. B. 24: 105-109. Jan.15,1951. 150 B87

25952 MCNAUGHTON, E. National organizations told of FAO problems. J. Home Econ. 42:822-823. Dec.1950. 321.8 J82

25953 MORITZ, F. L. Agriculture is contributing to our foreign policy. Mo. Farmer 42(12):3,10. Dec.1950. 6 M696

Exchange of international information through the ECA program and the International Farm Youth Exchange.

25954 SALERNI, E. Colaboración;colombo-italiana en el campo agrícola-industrial y de colonización; los menores como elementos de colaboración y la ubicación de las empresas agrícolas. Rev. Nac. de Agr. [Bogotá] 44(546):55-57. Oct.1950. 9.4 R32

#### METEOROLOGY

25955 ANGELL, G. N. Rain making hot Wheat League topic. Oreg. Farmer 73:892,899. Dec.21,1950. 6 Or32

25956 BAQUE, Z. L'Armagnac. Terre d'Oc 32:480-484. (Cont.) Nov.1950. 14 Ar5

Includes climate and vegetation.

25957 BELL, M. A. Weather and agriculture in Montana. Mont. Farmer-Stockman 38(6):6-7. Nov.15,1950. 6 M764

25958 BURGOS, J. J., and FINA, A. L. DE. La lluvia artificial. Bolsa de Com., Rosario. Rev. 38(932):3-4,6, 8-9. Nov.15,1950. 287 R71

25959 HAMILTON, A. Weather wizard of the West. Farm J. 75:36,61. Jan.1951. 6 F2212

Weather forecasting by F. D. Young.

25960 MISNER, E. G. Weather in New York. N. Y. Agr. Col. Farm Econ. 177:4590-4592. Nov.1950. 280.8 C812

25961 NELSON, R. T. Weather, or not—killing frost, when and where? Better Farming Better Living 1950:5. Autumn 1950. 6 B464

25962 SULZLÉE, C. L'étude scientifique de la neige et les travaux de recherche pour la protection contre les avalanches. École Natl. des Eaux et Forêts et Sta. de Rech. et Expér. Ann. 12:235-267. Ref. 1950. 99.9 F845

Introduction by P. Reneuve.

25963 SWEARINGEN, T. Turn on the rain! The future of many drouth-stricken range areas in the West may depend on man's ability to control rainfall. Rec. Stockman, Annu. Ed. (1951)61(52):234-235,237-238. Dec.28,1950. 49 D43

25964 TETRODE, P. Long range weather forecasting. II. (In Dutch.) Plattelands-Post 6(49):2. Dec.16, 1950. 12 P69



## RESEARCH

- 25965 BELOUSOV, S. A. Some results of the Conference of representatives of the branches of the Academy of Sciences of U.S.S.R. (In Russian.) Akad. Nauk SSSR. Vest. 20(10):54-60. Oct.1950. 511 Ak14V  
Chiefly on reorganization and planning of research.
- 25966 CARIBBEAN COMMISSION. CENTRAL SECRETARIAT. RESEARCH BR. Year book of Caribbean research; 1949 supplement: agriculture, fisheries and forestry. Port-of-Spain,1950. 296 p. Ref. 330.9 C19
- 25967 COLEMAN, R. Can agricultural science save America? Sci. Mon. 71:370-375. Dec.1950. 470 Sci23
- 25968 DU FOURNET, R. Ce qu'est le Service de la Recherche Agronomique de Rabat. Terre Marocaine 24: 428-432. Oct.1950. 24 T44
- 25969 ECUADOR. ESTACIÓN EXPERIMENTAL AGRÍCOLA. Annual report of the Sierra stations for the year 1949. n.p.1950? 9 p. 102.5 Ec92Q
- 25970 EHRENBERG, P. Zur beurteilung der zuverlässigkeit unserer versuchsergebnisse. Landwirt. Jahrb. f. Bayern 27(5/6):69-84. Sept./Oct.1950. 18 L24  
Agricultural research.
- 25971 ELGUETA G., M. La investigación en la agricultura. Agrario 15(416):17-19,35. (Concl.) Sept. 1950. 9.3 Ag85
- 25972 GARWICK, C. Penny wise and pound foolish? Ohio Farm Bur. News 30(5):8-9. Dec.1950. 6 Oh34  
Research for agriculture.
- 25973 GORDON, W. S. The Agricultural Research Council's Field Station, Compton, Berks. I. Brit. Agr. B. 3:164-169. 1950/51. 10 B776
- 25974 IDAHO. AGRICULTURAL EXPERIMENT STATION. Agricultural research in Idaho; fifty-seventh annual report, 1949/50. Idaho. Agr. Expt. Sta. B. 280, 73 p. July 1950. 100 Id1
- 25975 LONGWELL, J. H., and SHIRKY, S. B. Research for farm and home; annual report, 1948/49. Mo. Agr. Expt. Sta. B. 535,103 p. Dec.1949. 100 M693
- 25976 MAGOON, C. A., JOHNSON, N. W., and SEYMOUR, M. J. The Central Project Office in the Agricultural Research Administration. U. S. D. A. Agr. Inform. B. 23,16 p. Nov.1950. 1 Ag84Ab
- 25977 MILNER, R. T. Regional laboratories' progress. Flour & Feed 51(7):28. Dec.1950. 298.8 F66
- 25978 MOEN, A. The Swedish agricultural chemical laboratories. (In Norwegian.) Tidsskr. f. det Norske Landbr. 57:214-218. July/Aug.1950. 11 T433
- 25979 NEW HAMPSHIRE. AGRICULTURAL EXPERIMENT STATION. Annual report of the director, 1949. N. H. Agr. Expt. Sta. B. 382,46 p. Dec.1949. 100 N45
- 25980 NIKITIN, V. P., and UL'ANOVSKAYA, V. A. Summary of the research carried out by the branches of the Academy of Sciences of U.S.S.R. in 1949. (In Russian.) Akad. Nauk SSSR. Vest. 20(9):25-28. Sept.1950. 511 Ak14V
- 25981 OREGON. AGRICULTURAL EXPERIMENT STATION. Oregon's agricultural progress through research; 1950 annual report. Oreg. Agr. Expt. Sta. B. 491, 165 p. Nov.1950. 100 Or3
- 25982 PENNSYLVANIA. AGRICULTURAL EXPERIMENT STATION. Science for the farmer; supplement 1 to the 63rd annual report. Pa. Agr. Expt. Sta. B. 529 (sup.1),11 p. Dec.1950. 100 P381
- 25983 PUERTO RICO. FEDERAL EXPERIMENT STATION. Report of the Federal Experiment Station in Puerto Rico, 1950. Mayaguez,1950. 30 p. 1 Ex65

25984 SELSKAPET FOR NORGES VEL. Melding om verksemda til Det kgl. Selskap for Norges Vel i tida 1/7 1949-30/6 1950. [Report on the activities of the Royal Society for the Welfare of Norway during the season 1/7 1949-30/6 1950.] Oslo,1950. 73 p. 11 C464  
Supplement to Tidsskrift for det Norske Landbruk, No. 9-10, 1950.

A society for agricultural research.

25985 SOUTH DAKOTA. AGRICULTURAL EXPERIMENT STATION. Agricultural research in South Dakota; sixty-third annual station report, 1949/50. Brookings, 1950? 139 p. 100 So82

25986 U. S. AGRICULTURAL RESEARCH ADMIN. Report of activities under the Research and Marketing Act, 1949/50. Washington,1950. 36 p. 1.90 R3R2932

25987 U. S. OFF. OF EXPERIMENT STATIONS. Report of the chief, 1949/50. Washington,1950. 5 p. 1 Ex6A

25988 U. S. WESTERN REGIONAL RESEARCH LABORATORY. Publications with abstracts of the pharmacology laboratory. U. S. Bur. Agr. & Indus. Chem. AIC-220(sup.2),3 p. July 1950. 1.932 A2Ag82

25989 UTAH. AGRICULTURAL EXPERIMENT STATION. List of available publications. Logan,1950. 11 p. 100 Ut1

25990 WALKER, R. H. Agricultural research pays in increased profits to farmers and in better rural living. Farm & Home Sci. [Utah Sta.] 11:80-82,94. Dec.1950. 100 Ut1F

## STATISTICS

25991 DAVIES, V. Table showing significance of differences between percentages (for uncorrelated data). Wash. Agr. Expt. Sta. C. 102,24 p. Sept.1950. 100 W27S

25992 FLORIN, H. Possibilities of statistics in agriculture. (In Flemish.) Agricultura [Louvain] 48: 148-158. Ref. Nov.1950. 13 R32  
Summary in French.

Methods.

25993 FOOTE, R. J., and BEAN, L. H. Are yearly variations in crop yield really random? Agr. Econ. Res. 3:23-30. Jan.1951. 1 Ec7Agr

A statistical approach to the problem of long-range weather and crop-yield forecasting.

25994 IDENBURG, P. J., and IGNATIUS, J. G. W. Statistics of agriculture in the Netherlands. Inst. Internat. de Statis. B. 32(2):256-258. 1950. 251 In7B  
Sources.

25995 INSTITUT INTERNATIONAL DE STATISTIQUE. Travaux présentés à la 26<sup>e</sup> session, Berne 1949. Inst. Internat. de Statis. B. 32(2),488 p. 1950. 251 In7B

25996 MAHALANOBIS, P. C. Cost and accuracy of results in sampling and complete enumeration. Inst. Internat. de Statis. B. 32(2):210-213. 1950. 251 In7B  
In crop surveys.

25997 TAEUBER, C. Recent developments in FAO statistics. Inst. Internat. de Statis. B. 32(2):184-190. 1950. 251 In7B

25998 YATES, F. Agriculture, sampling and operational research. Inst. Internat. de Statis. B. 32(2):220-227. 1950. 251 In7B

25999 YATES, F. The place of statistics in the study of growth and form. Roy. Soc. London. Proc. Ser. B 137:479-488. Nov.28,1950. 501 L84B



U. S. D. A. PUBLICATIONS

Includes publications of the United States Department of Agriculture received in the Library during the preceding month, except restricted publications and materials issued for internal administrative use rather than for public distribution.

Periodicals issued by the Department are listed in the November issue only; articles in them are indexed currently.

Domestic requests for publications in the various Department series will be filled free upon application to the Office of Information, United States Department of Agriculture, Washington 25, D. C., as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington 25, D. C.

Bureau publications may ordinarily be obtained free of charge from the issuing bureau as long as the supply lasts.

Foreign institutions, organizations and agencies which issue publications may obtain United States Department of Agriculture publications in exchange by writing to the United States Department of Agriculture Library, Washington 25, D. C.

Agricultural Handbook

LITTLE, E. L., JR. Southwestern trees; a guide to the native species of New Mexico and Arizona. U. S. D. A. Agr. Handb. 9, 109 p. Ref. Dec. 1950. 1 Ag84Ah

Agricultural Information Bulletin

MAGOON, C. A., JOHNSON, N. W., and SEYMOUR, M. J. The Central Project Office in the Agricultural Research Administration. U. S. D. A. Agr. Inform. B. 23, 16 p. Nov. 1950. 1 Ag84Ab

Circulars

HURST, W. M., WHITE, H. D., and MCCRANEY, R. J. Pea and bean huller for use in locker and community canning plants. U. S. D. A. C. 856, 10 p. Nov. 1950. 1 Ag84C

JOHNSON, W. C. Stubble-mulch farming on wheatlands of the southern High Plains. U. S. D. A. C. 860, 18 p. Aug. 1950. 1 Ag84C

PIETERS, A. J., and others. Sericea and other perennial lespedezas for forage and soil conservation. U. S. D. A. C. 863, 48 p. Ref. Nov. 1950. 1 Ag84C

P. R. Henson, W. E. Adams, and A. P. Barnett, joint authors.

Revision of and supersedes Circular 534.

STEDRONSKY, V. L., and SHAW, C. S. The flow-through lint-cotton cleaner. U. S. D. A. C. 858, 30 p. Nov. 1950. 1 Ag84C

WALKDEN, H. H. Cutworms, armyworms [Cirphis unipuncta] and related species attacking cereal and forage crops in the central Great Plains. U. S. D. A. C. 849, 52 p. Ref. 1950. 1 Ag84C

Farmers' Bulletins

BLACK, W. H., and MCCOMAS, E. W. The beef calf: its growth and development. U. S. D. A. Farmers' B. 1135, rev., 26 p. Aug. 1950. 1 Ag84F

CLAYTON, E. E., and MCMURTREY, J. E., JR. Tobacco diseases and their control. U. S. D. A. Farmers' B. 2023, 70 p. Nov. 1950. 1 Ag84F

EMSWELLER, S. L. Growing annual flowering plants. U. S. D. A. Farmers' B. 1171, rev., 26 p. Oct. 1950. 1 Ag84F

HARRIS, M. D., THARP, M. M., and TURNER, H. A. Better farm leases. U. S. D. A. Farmers' B. 1969, slightly rev., 42 p. Apr. 1950. 1 Ag84F

HILDRETH, A. C. Ornamental hedges for the central Great Plains. U. S. D. A. Farmers' B. 2019, 25 p. Oct. 1950. 1 Ag84F

Miscellaneous Publications

U. S. BUR. OF ANIMAL INDUSTRY. The National Turkey Improvement Plan. U. S. D. A. Misc. P. 555, rev., 38 p. June 1950. 1 Ag84M

Program Aid

U. S. PRODUCTION AND MARKETING ADMIN. Facts about the present cotton situation and the need for increased production in 1951. U. S. D. A. PA-148, 12 p. Dec. 1950. 1 Ag84Pro

U. S. PRODUCTION AND MARKETING ADMIN. Order and store fertilizer and insecticides early for your 1951 cotton crop. U. S. D. A. PA-141, 2 p. Nov. 1950. 1 Ag84Pro

U. S. PRODUCTION AND MARKETING ADMIN. Tobacco; price supports, marketing quotas, Federal grading. U. S. D. A. PA-140, 15 p. Nov. 1950. 1 Ag84Pro

U. S. RURAL ELECTRIFICATION ADMIN. Movies for co-op meetings. Film sources. Motion pictures for REA co-ops. U. S. D. A. PA-115, 11 p. 1950? 1 Ag84Pro

Statistical Bulletins

U. S. BUR. OF AGRICULTURAL ECONOMICS. Livestock on farms and ranches on January 1; number, value, and classes, 1920-39, by States. U. S. D. A. Statis. B. 88, 103 p. 1950. 1 Ag84St

U. S. PRODUCTION AND MARKETING ADMIN. Annual report on tobacco statistics, 1950. U. S. D. A. Statis. B. 92, 72 p. Dec. 1950. 1 Ag84 St

Technical Bulletins

BACHMAN, K. L., and JONES, R. W. Sizes of farms in the United States. U. S. D. A. Tech. B. 1019, 79 p. Ref. July 1950. 1 Ag84Te

SWETT, W. W., and others. Effectiveness of penicillin in eliminating mastitis infections in the Bureau of Dairy Industry herd. U. S. D. A. Tech. B. 1027, 22 p. Ref. Dec. 1950. 1 Ag84Te

L. A. Burkey, C. R. Buckner, P. C. Underwood, C. A. Matthews, and M. H. Fohrman, joint authors.

AGRICULTURAL AND INDUSTRIAL CHEMISTRY, BUREAU OF

CHEESMAN, W. L. Blood and blood plasma substitutes; a selected bibliography, including literature and patent references. U. S. Bur. Agr. & Indus. Chem. AIC-289, 30 p. Oct. 1950. 1.932 A2Ag82

CLAFFEY, J. B., ESKEW, R. K., and BEINHART, E. G. Recovery of nicotine from Nicotiana rustica by steam distillation. U. S. Bur. Agr. & Indus. Chem. AIC-284, 8 p. Oct. 1950. 1.932 A2Ag82

CLAFFEY, J. B., and others. Scrubbing nicotine from stream. U. S. Bur. Agr. & Indus. Chem. AIC-285, 6 p. Dec. 1950. 1.932 A2Ag82

E. O. Strolle, G. W. M. Phillips, and R. K. Eskew, joint authors.

DECOSAS, K. M., DECKBAR, F. A., JR., and HECKER, J. L. Densities and gravities of cottonseed and peanut oil miscellas in English units. U. S. Bur. Agr. & Indus. Chem. AIC-292, 8 p. Nov. 1950. 1.932 A2Ag82

FISHER, C. H., and FILACHIONE, E. M. Properties and reactions of lactic acid—a review. U. S. Bur. Agr. & Indus. Chem. AIC-279, 32 p. Ref. Oct. 1950. 1.932 A2Ag82

JEANES, A. Dextran, a selected bibliography. U. S. Bur. Agr. & Indus. Chem. AIC-288, 13 p. Oct. 1950. 1.932 A2Ag82

KAUFMAN, V. F., NIMMO, C. C., and WALKER, L. H. Frozen apple-juice concentrate; application of laboratory data to prospective commercial operations. U. S. Bur. Agr. & Indus. Chem. AIC-293, 7 p. Nov. 1950. 1.932 A2Ag82

TEUTON, F. L. New uses for farm products. Washington, U. S. Bur. Agr. & Indus. Chem., 1951. 10 p. 1.98 T29

Address before the Wyoming Ranch, Farm and Home Week at Laramie, Mar. 7, 1951.

U. S. WESTERN REGIONAL RESEARCH LABORATORY. Publications with abstracts of the pharmacology laboratory. U. S. Bur. Agr. & Indus. Chem. AIC-220(sup.2), 3 p. July 1950. 1.932 A2Ag82

AGRICULTURAL ECONOMICS, BUREAU OF

BURTIS, E. L. The outlook for fats, oils, and oilseeds in 1950-51. Washington, U. S. Bur. Agr. Econ., 1950. 3 p. 1.941 A2B95

Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.



POST, R. E. The outlook for wheat in 1951-52. Washington, U. S. Bur. Agr. Econ., 1950. 2 p. 1.941 A2P845

Statement at Annual Agricultural Outlook Conference, Washington, D. C., Nov. 2, 1950.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Acreage, yield, and production of principal crops, by States, with comparisons; 1950 annual summary. Washington, 1950. 97 p. 1.9 St2Cb

U. S. BUR. OF AGRICULTURAL ECONOMICS. Agricultural finance review, v. 13, 117 p. Nov. 1950. 1.9 Ec78Af

Partial contents: Financial survey of Virginia agriculture, by M. E. Wallace, p. 1-14; Rural homestead and veterans' exemptions in property taxation, by D. W. Burch, p. 15-23; Limitations to obtaining developmental capital in agriculture, by H. C. Larsen, p. 24-31; Hail insurance on growing crops in the United States, by J. C. Ellickson, p. 32-40; Recent tax changes and their significance to agriculture, by T. F. Haygood, p. 41-49.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Annual berry summary [Oregon], 1950 crop. Portland, Ore., 1951? 2 p. 1.941 H8B45

U. S. BUR. OF AGRICULTURAL ECONOMICS. A chronology of the War Food Administration, including predecessor and successor agencies, August 1939 to December 1946, by G. L. Baker and W. D. Rasmussen. Washington, 1950. 73 p. 1.941 A2C462

U. S. BUR. OF AGRICULTURAL ECONOMICS. Commercial truck crops for fresh market; acreage, production and value by seasonal groups and States, with comparisons; 1950 annual summary. Washington, 1950. 48 p. 1.941 H8V525

U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm-to-retail margins for marketing Southeastern early white potatoes in Philadelphia, New York, Chicago, and Cincinnati, 1949, by W. N. Garrott. Washington, 1950. 4 p. 1.941 F3F224

U. S. BUR. OF AGRICULTURAL ECONOMICS. Sheep and lambs on feed, January 1, 1951. Washington, 1951. 2 p. 1.941 H8Sh32

U. S. BUR. OF AGRICULTURAL ECONOMICS. Statistics relative to the receipt and disposal of milk and cream at dairy plants in New York State, 1949. Albany, 1950. 39 p. 1.941 S8S2

New York State Department of Agriculture and Markets cooperating.

U. S. BUR. OF AGRICULTURAL ECONOMICS. The world sugar situation. Washington, 1950. 65 p. 1.9 Ec752Ws

#### AGRICULTURAL RESEARCH ADMINISTRATION

CHEATHAM, R. J. New fiber cutter extends potential uses for cotton. U. S. Agr. Res. Admin. Res. Achvt. Sheet 135(C), 2 p. Nov. 1950. 1.98 R31

SHAW, B. T. The job ahead. Washington, U. S. Agr. Res. Admin., 1950. 8 p. 1.98 Sh2

Talk before the annual PMA conference, Chicago, Dec. 13, 1950.

THYE, L. Step-saving U-kitchen plan. U. S. Agr. Res. Admin. Res. Achvt. Sheet 134, 2 p. Nov. 1950. 1.98 R31

U. S. AGRICULTURAL RESEARCH ADMIN. Report of activities under the Research and Marketing Act, 1949/50. Washington, 1950. 36 p. 1.90 R3R2932

#### ANIMAL INDUSTRY, BUREAU OF

U. S. BUR. OF ANIMAL INDUSTRY. Trichomoniasis, a costly venereal disease of cattle. Washington, 1950. 3 p. 1.972 A2T73

WINTER, A. Report on brucellosis eradication project. Washington, U. S. Bur. Anim. Indus., 1950. 4 p. 1.972 A2W73

#### COMMODITY CREDIT CORPORATION

U. S. COMMODITY CREDIT CORPORATION. Commodity Credit Corporation charts, providing a graphic summary of operations, 1933-June 30, 1950. Washington, 1950. 55 p. 1.957 C38

#### COMMODITY EXCHANGE AUTHORITY

U. S. COMMODITY EXCHANGE AUTHORITY. Barley and oats summary for the crop year beginning July 1949. Chicago, 1950. 6 p. 1.913 A2824

U. S. Extension Service and U. S. Production and Marketing Administration cooperating.

U. S. COMMODITY EXCHANGE AUTHORITY. Twenty-five years of futures trading under Federal regulation. Washington, 1950. Rev. 14 p. 1.945 T91

U. S. COMMODITY EXCHANGE AUTHORITY. Wheat and rye summary for the crop year beginning July 1949. Chicago, 1950. 10 p. 1.913 A2W56

U. S. Extension Service and U. S. Production and Marketing Administration cooperating.

#### DAIRY INDUSTRY, BUREAU OF

U. S. BUR. OF DAIRY INDUSTRY. Report of the chief, 1949/50. Washington, 1950. 26 p. 1 D14

#### ENTOMOLOGY AND PLANT QUARANTINE, BUREAU OF

APP, B. A., and EVERLY, R. T. Insecticide dusts to control the clover root borer [*Hylastinus obscurus*] and the meadow spittlebug [*Philaenus leucophthalmus*]. U. S. Bur. Ent. & Plant Quar. E-911, 8 p. Dec. 1950. 1.9 En83

CHADA, H. L., WOOD, E. A., JR., and RIHERD, P. T. Distribution and host plants of the Rhodes-grass scale [*Antonina graminis*] in the United States in 1950. U. S. Bur. Ent. & Plant Quar. Insect Pest Survey. Spec. Sup. 1950(5), 4 p. Dec. 7, 1950. 1.9 En831B

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Grasshopper infestation expected in 1951. Denver, 1950. map. 1.967 A2G76

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Japanese beetle (*Popillia japonica* Newman). U. S. D. A. Picture Sheet 4, rev., 2 p. Oct. 1950. 1 En86P

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine import restrictions of the British Colony of Bermuda; oranges and grapefruit embargoed. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 445, rev. (sup. 2), 1 p. Nov. 24, 1950. 1.9 F73

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine import restrictions of the French Zone of Morocco. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 444, rev., 14 p. Nov. 24, 1950. 1.9 F73

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine import restrictions of the Republic of Venezuela; rules for the importation of seed potatoes. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 497, rev. (sup. 1), 2 p. Jan. 2, 1951. 1.9 F73

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Report of the chief, 1949/50. Washington, 1950. 72 p. 1 Ag84

#### EXPERIMENT STATIONS, OFFICE OF

CHILDERS, N. F., and others. Vegetable gardening in the Tropics. P. R. Fed. Expt. Sta. (Mayaguez) C. 32, 144 p. Ref. 1950. 1 Ex65

H. F. Winters, P. Seguinot Robles, and H. K. Plank, joint authors.

Complete revision of and supersedes Bulletin 7.

PUERTO RICO. FEDERAL EXPERIMENT STATION. Report of the Federal Experiment Station in Puerto Rico, 1950. Mayaguez, 1950. 30 p. 1 Ex65

U. S. OFF. OF EXPERIMENT STATIONS. Report of the chief, 1949/50. Washington, 1950. 5 p. 1 Ex6A

U. S. OFF. OF EXPERIMENT STATIONS. Research in foods, human nutrition, and home economics at the land-grant institutions; list of published and processed reports, October 1949-October 1950, compiled by C. Justin, and G. Adams. Washington, 1950. 32 p. 1.9 Ex6Ho



## EXTENSION SERVICE

DEERING, A. L. Principles of youth work, based on observations in many countries. Washington, U. S. Ext. Serv., 1950. 2 p. 1.913 F3P93  
Presented to State 4-H Club leaders attending the National 4-H Club Camp, Washington, D. C., 1950.

ESHBACH, C. E. Food buymanship, and what it means. Washington, U. S. Ext. Serv., 1950. 14 p. 1.913 F4F735

Presented at the Third Annual Marketing School for Extension Workers in Massachusetts, Oct. 5, 1950, at Amherst.

SCHLUP, L. A. After all, it's the way you serve people. Washington, U. S. Ext. Serv., 1950. 10 p. 1.913 12Af8

Prepared for Extension intra-regional conferences of district supervisors in the South.

SCHLUP, L. A. District supervisors' contribution to better county Extension public relations. Washington, U. S. Ext. Serv., 1950. 4 p. 1.913 12D63

Prepared for Extension intra-regional conferences of district supervisors in the South.

SHEFFIELD, C. A. Training Extension personnel. Washington, U. S. Ext. Serv., 1950. 7 p. 1.913 A2Sh3

Talk at Extension intra-regional conferences of District supervisors in the South.

U. S. EXTENSION SERV. Brief outline for county extension public relations, by L. A. Schlup. Washington, 1950. 11 p. 1.913 12B76

U. S. EXTENSION SERV. National Home Demonstration Week activities for 1950 surpass previous years' records, by M. Hogan. Washington, 1950. 10 p. 1.913 H2N217

U. S. EXTENSION SERV. Observance of National 4-H Club Week, March 3-11, 1951. Theme: Working together for world understanding, by G. L. Warren. Washington, 1950. 32 p. 1.913 F3N2142

U. S. EXTENSION SERV. Some conclusions of Extension Soil Conservationists' Conference, Spring Mill State Park, Mitchell, Indiana, Oct. 9-11, 1950. Washington? 1950. 5 p. 1.913 C3So5

WILSON, M. L. Education by democratic processes. Washington, U. S. Ext. Serv., 1950. 7 p. 1.913 A2W69

Presented before American Association for the Advancement of Science Symposium on "Science and Human Values," Cleveland, Dec. 27, 1950.

WILSON, M. L. Women in a free world. Washington, U. S. Ext. Serv., 1950. 7 p. 1.913 A2W69

Talk at meeting of the National Home Demonstration Council, Biloxi, Oct. 19, 1950.

## FARM CREDIT ADMINISTRATION

GARDNER, K. B. Farmers' interest in their marketing and purchasing cooperatives, 1949. U. S. Farm Credit Admin. Misc. Rpt. 145, 2 p. Nov. 1950. 166.3 M68

HECKMAN, J. H. Guide for teaching farmer cooperation. U. S. Farm Credit Admin. C. E-34, 33 p. Ref. May 1950. 166.2 C4926

U. S. FARM CREDIT ADMIN. Motion picture films available on cooperation. U. S. Farm Credit Admin. Inform. & Ext. Div. Misc. Rpt. 144, 18 p. Nov. 1950. 166.3 M68

## FARMERS HOME ADMINISTRATION

U. S. FARMERS HOME ADMIN. Report of the administrator, 1949/50; investments in better rural living. Washington, 1950. 45 p. 1.949 R293

## FEDERAL CROP INSURANCE CORPORATION

U. S. FEDERAL CROP INSURANCE CORPORATION. Cotton sales handbook; commodity coverage. Washington, 1950. 21 p. 1.952 C826

U. S. FEDERAL CROP INSURANCE CORPORATION. Cotton sales handbook; monetary coverage. Washington, 1950. 21 p. 1.952 C824

U. S. FEDERAL CROP INSURANCE CORPORATION. Multiple sales handbook. Washington, 1950. 22 p. 1.952 Sa35

U. S. FEDERAL CROP INSURANCE CORPORATION. Report of the manager, 1949/50. Washington, 1950. 43 p. 1 C88R

## FOREIGN AGRICULTURAL RELATIONS, OFFICE OF

BURKE, J. H. Observations on the United Kingdom citrus market in 1950. U. S. Off. Foreign Agr. Relat. FCF-9-50, 20 p. Dec. 15, 1950. 1.943 F7637

DAY, G. H. Outlook for imports of United States dairy products in Venezuela. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 53, 42 p. July 1950. 1.943 F763

VAN DYNE, G. W. Trends in South and East Africa affecting United States trade in tobacco. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 55, 28 p. Oct. 1950. 1.943 F763

## FOREST SERVICE

CUNNINGHAM, R. N. Forest resources of the Lake States region. U. S. Forest Serv. Forest Resource Rpt. 1, 57 p. Ref. 1950. 1 F76Frr

FENTON, R. H., and MCKUSICK, H. A. A pilot study of a portable wood chipper. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 37, 18 p. Oct. 1950. 1.9622 N2St22

FINCH, T. L., HODGE, W. C., and METCALF, M. E. Forest resources of South Central Montana. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Paper 23, 19 p. Apr. 1950. 1.9622 N3St1

KEMP, P. D., and DICKERMAN, M. B. Montana forest resource and industry statistics. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Paper 23, 49 p. Oct. 1950. 1.9622 N3St1

KOTOK, E. I. Wood in our economy. Washington, U. S. Forest Serv., 1950. 8 p. 1.962 A2K84

Presented at convention of the International Woodworkers of America, Minneapolis, Sept. 11-15, 1950.

U. S. FOREST SERV. A list of the forest tree nurseries of the United States. U. S. Forest Serv. Tree Planters' Note 1, 21 p. Nov. 1950. 1.962 C5T71

U. S. FOREST SERV. National-forest vacations. Washington, 1950. 60 p. 1 F769Naf

U. S. FOREST SERV. Report of the chief; statistical supplement, 1949/50. Washington? 1950. 16 p. 1 F76

U. S. FOREST SERV. SOUTHWESTERN REGION. Winter sports in your national forests; Arizona and New Mexico. Albuquerque? 1950. 27 p. 1.9621 R3W73

WATTS, L. F. The role of forests and foresters in our national economy. Washington, U. S. Forest Serv., 1950. 6 p. 1.962 A2W34

Address at Golden Anniversary meeting of Society of American Foresters, Washington, D. C., Dec. 16, 1950.

## INFORMATION, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Annual report, 1949/50. Washington? 1950. 28 p. 1 In3R

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Christmas trees, by B. Bergoffen, A. Sower, and K. M. Gapen. Washington, 1950. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Grass farming in dairy land, by R. Hodgson, H. Haas, E. Ballweg, and M. Bliss. Washington, 1950. 5 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Invisible bandits on the farm, by B. T. Simms, M. S. Shahan, and M. Bliss. Washington, 1951. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Know your new beef grades, by H. E. Reed, F. J. Beard, and K. Gapen. Washington, 1950. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Timber for the future, by C. F. Evans, D. Nelson, R. E. McArdle, and B. Bergoffen. Washington, 1950. 5 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. What's ahead in agriculture, by B. Allin and K. M. Gapen. Washington, 1950. 3 p. 1.914 R2R11



U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. What's new in farm science, by P. A. Wells, T. L. McMeekin, C. O. Willits, and K. Gopen. Washington, 1951. 4 p. 1.914 R2R11

## LIBRARY

U. S. DEPT. OF AGRICULTURE. LIBRARY. A list of the publications of Walter J. Roth. Washington, 1951. 1 p. Typewritten.

U. S. DEPT. OF AGRICULTURE. LIBRARY. Partial list of publications by or about Dr. Harvey W. Wiley relating to his efforts to establish a Federal pure food law. Washington, 1950. 2 p. Typewritten.

U. S. DEPT. OF AGRICULTURE. LIBRARY. Report of the Librarian, 1949/50. Washington, 1950. 10 p. 1 L61

U. S. DEPT. OF AGRICULTURE. LIBRARY. ALBUQUERQUE BR. A partial list of publications of Dr. W. Lawrence Balls. Albuquerque, 1950. 5 p. Type-written.

## PLANT AND OPERATIONS, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF PLANT AND OPERATIONS. Report of the director, 1949/50. Washington, 1950. 15 p. 1 Op2

## PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING, BUREAU OF

HARVEY, E. M., ATROPS, E. P., and RAD-SPINNER, W. A. Transportation test with lemons and oranges from southern California to New York, September 1950. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 233,34 p. Nov. 10, 1950. 1.9 P772Ht

WEISS, F. A., comp. Index of plant diseases in the United States. III. Gramineae. U. S. Bur. Plant Indus., Soils & Agr. Engin. Plant Dis. Survey. Spec. P. 1,529 p. Dec. 15, 1950. 1.965 M2Sp3

## PRODUCTION AND MARKETING ADMINISTRATION

HOOFNAGLE, J. E. The nation's food supply. Washington, U. S. Prod. & Mktg. Admin., 1950. 5 p. 1.956 F73H76

Talk at Annual Institute of Southern Association of College and University Business Officers, Atlanta, Oct. 5, 1950.

THOMPSON, J. I. Mobilized marketing. Washington, U. S. Prod. & Mktg. Admin., 1950. 13 p. 1.956 A2T37

Speech at the annual PMA conference in Chicago, Dec. 13, 1950.

TRIGG, R. S. PMA responsibility in national defense. Washington, U. S. Prod. & Mktg. Admin., 1950. 13 p. 1.956 A2T73

Address at annual PMA conference, Chicago, Dec. 11, 1950.

U. S. PRODUCTION AND MARKETING ADMIN. The agricultural manpower supply situation. Washington? 1950. 3 p. 1.956 A2Ag829

U. S. PRODUCTION AND MARKETING ADMIN. Buckwheat: acreage, yield, and production, United States. Washington, 1950. 2 p. 1.956 G76B852

U. S. PRODUCTION AND MARKETING ADMIN. Buckwheat; supply-distribution, 1924 to date. Washington, 1950. 2 p. 1.956 G76B85

U. S. PRODUCTION AND MARKETING ADMIN. Burley tobacco, type 31: acreage, yield, price, production, stocks, supply, and disappearance, 1940-50. Washington, 1950. 1 p. 1.956 T55B92

U. S. PRODUCTION AND MARKETING ADMIN. Charges for ginning cotton and related data, season 1949-50. Washington, 1950. 2 p. 1.956 C82C372

U. S. PRODUCTION AND MARKETING ADMIN. Classes of wheat lifted by claimants, 1949/50. Washington, 1950. 1 p. 1.956 G76C56

U. S. PRODUCTION AND MARKETING ADMIN. Corn; acreage yield and production, 1919 to 1950. Washington, 1950. 2 p. 1.956 G76C815

U. S. PRODUCTION AND MARKETING ADMIN. Domestic mohair: monthly average prices on the open market at Boston, 1943-45. Washington, 1950. 2 p. 1.956 L75D715

U. S. PRODUCTION AND MARKETING ADMIN. Domestic wool; monthly average of Commodity Credit Corporation purchasing prices at Boston, 1946-49, clean basis. Washington, 1950. 2 p. 1.956 L75D714

U. S. PRODUCTION AND MARKETING ADMIN. Domestic wool: monthly average of Commodity Credit Corporation purchasing prices at Boston, 1946-49, grease and scoured basis. Washington, 1950. 1 p. 1.956 L75D712

U. S. PRODUCTION AND MARKETING ADMIN. Domestic wool: monthly average prices on the open market at Boston, 1948-49. Washington, 1950. 2 p. 1.956 L75D713

U. S. PRODUCTION AND MARKETING ADMIN. Dry field peas: acreage, yield, and production, United States [1928-50]. Washington, 1950. 2 p. 1.956 G76D844

U. S. PRODUCTION AND MARKETING ADMIN. Grain sorghums; acreage, yield, and production, United States. Washington, 1950. 2 p. 1.956 G76G764

U. S. PRODUCTION AND MARKETING ADMIN. Louisiana, annual report; 1949 agricultural conservation program. Baton Rouge, 1950. 45 p. 1.952 A2L932

U. S. PRODUCTION AND MARKETING ADMIN. Official standard grades for dark air-cured tobacco (U.S. types 35, 36, and 37). Washington, 1950. 8 p. 1.956 A2of24

U. S. PRODUCTION AND MARKETING ADMIN. Peanuts: national marketing quotas & acreage allotments [1941-51]. Washington, 1950. 1 p. 1.956 F26P312

U. S. PRODUCTION AND MARKETING ADMIN. Proposed revision of the Tentative standard grades for sorted and unsorted broadleaf tobacco of type 51. Washington, 1950. 14 p. 1.956 T55P942

U. S. PRODUCTION AND MARKETING ADMIN. Tobacco: acreage, yield, price per pound, production, stocks, supply, and disappearance, 1940-50, fire-cured, types 21-24. Washington, 1950. 1 p. 1.956 T55T558

U. S. PRODUCTION AND MARKETING ADMIN. U. S. consumer standards for Italian sprouting broccoli. Washington, 1950. 3 p. 1.956 A2Un347

U. S. PRODUCTION AND MARKETING ADMIN. U. S. seed verification service: verified-origin alfalfa and red clover seed dealers for 1950-1951. Washington, 1950. 2 p. 1.956 G76Un34

U. S. PRODUCTION AND MARKETING ADMIN. United States standards for grades of canned apple juice. Rev. Washington, 1950. 7 p. 1.956 A2Un349

U. S. PRODUCTION AND MARKETING ADMIN. United States standards for grades of canned field peas and canned black-eye peas. Washington, 1950. 7 p. 1.956 A2Un349

U. S. PRODUCTION AND MARKETING ADMIN. Virginia sun-cured tobacco, type 37: acreage, yield, price per pound, production, stocks, supply, and disappearance, 1940-50. Washington, 1950. 1 p. 1.956 T55V81

U. S. PRODUCTION AND MARKETING ADMIN. Wheat; acreage, yield, and production, 1919 to date. Washington, 1950. 4 p. 1.956 G76W566

U. S. PRODUCTION AND MARKETING ADMIN. Wholesale margins for fresh citrus fruits in the Pittsburgh, Pa., wholesale fruit and vegetable market, by L. W. Cochran. Washington, 1950. 20 p. 1.956 F94W62

U. S. PRODUCTION AND MARKETING ADMIN. The wholesale market for fruits, vegetables, poultry, and eggs in New Haven, Conn. Supplement, by C. J. Otten and A. B. Lowstuter. Washington, 1950. 11 p. 1.956 M343W625

## RURAL ELECTRIFICATION ADMINISTRATION

U. S. RURAL ELECTRIFICATION ADMIN. Electric home pasteurizers. Rev. Washington? 1950. 9 p. 1.933 EL237

WICKARD, C. R. Electricity in agriculture. Washington, U. S. Rur. Electrification Admin., 1951. 13 p. 1.91 A2W63

Paper presented to the Sectional Meeting of the World Power Conference, New Delhi, India, Jan. 10-15, 1951.

## SECRETARY, OFFICE OF

BRANNAN, C. F. Democracy must go forward. Washington, U. S. D. A., Off. Sec., 1950. 17 p. 1.91 A2B73

Talk at annual PMA conference, Chicago, Dec. 13, 1950.



MCCORMICK, C. J. Let freedom ring. Washington, U. S. D. A., Off. Sec., 1950. 17 p. 1.91 A2M132  
Address at Winter Agricultural Conference, Purdue University, Lafayette, Dec. 27, 1950.

MCCORMICK, C. J. Strengthening the family farm. Washington, U. S. D. A., Off. Sec., 1950. 13 p. 1.91 A2M132

Talk at annual meeting of the Production and Marketing Administration, Chicago, Dec. 11, 1950.

#### SOIL CONSERVATION SERVICE

BLANEY, H. F., and CRIDDLE, W. D. Determining water requirements in irrigated areas from climatological and irrigation data. U. S. Soil Conserv. Serv. SCS-TP-96, 48 p. Aug. 1950. 1.96 Ad6Tp

GOTTSCALK, L. C., and BRUNE, G. M. Sediment design criteria for the Missouri Basin Loess Hills. U. S. Soil Conserv. Serv. SCS-TP-97, 21 p. Ref. Oct. 1950. 1.96 Ad6Tp

HOCKENSMITH, R. D. Land classification in a Caribbean land improvement program. Washington, U. S. Soil Conserv. Serv., 1950. 10 p. 1.96 Ad6H8  
Paper presented at Caribbean Soils Conference, Puerto Rico, Mar. 30-Apr. 8, 1950.

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management and land resources, Douglas County, Kansas. Manhattan, 1950. 25 p. 1.96 L22Ph

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Washington County, Kansas. Manhattan, 1950. 25 p. 1.96 L22Ph

U. S. SOIL CONSERVATION SERV. NORTHERN GREAT PLAINS REGION. Miscellaneous information for conservation planning. Lincoln, 1950. 39 p. 1.9607 M682

#### SOLICITOR, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF THE SOLICITOR. Report of the solicitor, 1949/50. Washington, 1950. 38 p. 1 Ag84



STATE AGRICULTURAL EXPERIMENT STATIONPUBLICATIONS

March 1951

Includes State Agricultural Experiment Station publications received in the library during the preceding month.

Publications issued by the State Agricultural Experiment Stations are not available from the U. S. Department of Agriculture but are often available from the publishing experiment station.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

California Agricultural Experiment Station, Berkeley

DICKSON, R. C. The Fuller rose beetle [Pantomorus godmani], a pest of citrus. Calif. Agr. Expt. Sta. B. 718, 8 p. Oct. 1950. 100 C12S

BARTHOLOMEW, E. T., SINCLAIR, W. B., and HORSPOOL, R. P. Freeze injury and subsequent seasonal changes in Valencia oranges and grapefruit. Calif. Agr. Expt. Sta. B. 719, 48 p. Ref. Oct. 1950. 100 C12S

KEPNER, R. A. The principles of orchard heating. Calif. Agr. Expt. Sta. C. 400, 10 p. Nov. 1950. 100 C12S

LEMMON, P. E., HAFENRICHTER, A. L., and MADSON, B. A. Cucamonga brome, a new grass for covercropping. Calif. Agr. Expt. Sta. C. 401, 7 p. Nov. 1950. 100 C12S

HILGARDIA 20(10-15):183-298. Sept.-Oct. 1950. 100 C12H

Connecticut (State) Agricultural Experiment Station, New Haven

POTTS, S. F., and others. Construction and operation of ground equipment for applying concentrated sprays. Conn. (State) Agr. Expt. Sta. C. 178, 35 p. Oct. 1950. 100 C76St

P. Garman, R. B. Friend, and R. A. Spencer, joint authors.

GALINAT, W. C. Sweet corn report, Mt. Carmel and Windsor, Connecticut. Conn. (State) Agr. Expt. Sta. Rpt. Prog. 50G2, 9 p. Jan. 2, 1951. 100 C763S

Idaho Agricultural Experiment Station, Moscow

DAVISON, D. N., KEITH, T. B., and HICKMAN, C. W. Concentrate and alfalfa hay ratios for growing and fattening Idaho lambs. Idaho. Agr. Expt. Sta. B. 281, 8 p. Sept. 1950. 100 Id1

IDAHO. AGRICULTURAL EXPERIMENT STATION. Agricultural research in Idaho; fifty-seventh annual report, 1949/50. Idaho. Agr. Expt. Sta. B. 280, 73 p. July 1950. 100 Id1

Illinois Agricultural Experiment Station, Urbana

JORDAN, G. L. Twenty years of prices and incomes received by Illinois farmers, 1929-1948. Ill. Agr. Expt. Sta. B. 542, 72 p. Sept. 1950. 100 IL6S

Maine Agricultural Experiment Station, Orono

PERRY, A. L., and MERCHANT, C. H. Development of defects in potatoes between shipping points in Aroostook County, Maine and wholesale and retail markets in Boston, Massachusetts. Maine. Agr. Expt. Sta. B. 484, 35 p. Sept. 1950. 100 M28S

MAINE. AGRICULTURAL EXPERIMENT STATION. Foods and drugs, 1949-50, by E. R. Tobey. Orono, 1950. 44 p. 100 M28S

Maryland Agricultural Experiment Station, College Park

BURNS, D. J., and BEAL, G. M. Farm practices affecting seasonal milk production in the Baltimore milkshed. Md. Agr. Expt. Sta. B. A-58, 16 p. Oct. 1950. 100 M36S

MARYLAND. AGRICULTURAL EXPERIMENT STATION. Local rural road use and benefits in Maryland. Md. Agr. Expt. Sta. B. A-61, 28 p. Nov. 1950. 100 M36S

Massachusetts Agricultural Experiment Station, Amherst

BAILEY, J. S., FRANKLIN, H. J., and KELLEY, J. L. Blueberry culture in Massachusetts. Mass. Agr. Expt. Sta. B. 358, rev., 24 p. Ref. June 1950. 100 M38H

Michigan Agricultural Experiment Station, East Lansing

JENSEN, J. M. Practical sanitation in caring for milking machines. Mich. Agr. Expt. Sta. C. B. 218, 32 p. Ref. Oct. 1950. 100 M58S

TROUT, G. M. Homogenized milk, a review and guide. Mich. Agr. Expt. Sta. Mem. B. 9, 233 p. Ref. 1950. 100 M58S

HOFFER, C. R., and others. Health needs and health care in Michigan; report of a State-wide survey. Mich. Agr. Expt. Sta. Spec. B. 365, 94 p. June 1950. 100 M58S

D. L. Gibson, C. P. Loomis, P. A. Miller, E. A. Schuler, and J. F. Thaden, joint authors.

QUARTERLY bulletin 33:67-189. Nov. 1950. 100 M58S

Minnesota Agricultural Experiment Station, University Farm, St. Paul

BENEKE, R. R., and POND, G. A. Starting farming in southeastern Minnesota. Minn. Agr. Expt. Sta. B. 405, 20 p. June 1950. 100 M66

ARAKERI, H. R., and DUNHAM, R. S. Environmental factors relating to the pre-emergence treatment of corn with 2, 4-D and soybeans with TCA. Minn. Agr. Expt. Sta. Tech. B. 190, 28 p. Ref. May 1950. 100 M66

NICHOLSON, H. P., and MICKEL, C. E. The black flies of Minnesota (Simuliidae). Minn. Agr. Expt. Sta. Tech. B. 192, 64 p. Ref. Aug. 1950. 100 M66

Mississippi Agricultural Experiment Station, State College

GAINES, J. P., and CROWE, G. B. An economic appraisal of anhydrous ammonia as a nitrogenous fertilizer. Miss. Agr. Expt. Sta. C. 152, 16 p. June 1950. 100 M69

STOKES, I. E. Effect of storage on yield and quality of sugarcane sirup in Mississippi. Miss. Agr. Expt. Sta. C. 154, 7 p. Aug. 1950. 100 M69

JOHNSON, H. A., and GILL, J. B. Red rust-proof oats lead in winter grazing small grain variety tests at South Mississippi Experiment Station. Miss. Agr. Expt. Sta. Inform. Sheet 452, 2 p. Aug. 1950. 100 M69In

IVANOFF, S. S., and others. Oat varieties compared for grain yields. Miss. Agr. Expt. Sta. Inform. Sheet 453, 2 p. Sept. 1950. 100 M69In

D. Bowman, B. L. Arnold, B. C. Hurt, Jr., S. L. Wedgeworth, C. L. Blount, and H. A. Johnson, joint authors.

LEVECK, H. H. Finishing lambs on winter pasture. Miss. Agr. Expt. Sta. Inform. Sheet 455, 2 p. Oct. 1950. 100 M69In

Missouri Agricultural Experiment Station, Columbia

LONGWELL, J. H., and SHIRKY, S. B. Research for farm and home; annual report, 1948/49. Mo. Agr. Expt. Sta. B. 535, 103 p. Dec. 1949. 100 M693

HERMAN, H. A., and RAGSDALE, A. C. Artificial insemination of dairy cows. Mo. Agr. Expt. Sta. B. 540, 30 p. July 1950. 100 M693

ELDER, C., and CRISLER, O. S. Hog cholera. Mo. Agr. Expt. Sta. B. 541, 11 p. Aug. 1950. 100 M693

BURNS, P. Y. Value of farm woodlot management in Missouri. Mo. Agr. Expt. Sta. C. 349, 8 p. July 1950. 100 M693



HASEMAN, L. Flea beetle damage to garden crops. Mo. Agr. Expt. Sta. C. 350,2 p. July 1950. 100 M693

Revision of Circular 260.

HASEMAN, L. Prevent cabbage worm injury. Mo. Agr. Expt. Sta. C. 351,2 p. July 1950. 100 M693  
Revision of Circular 259.

Nebraska Agricultural Experiment Station, Lincoln

NORTHERN GREAT PLAINS TENURE COMMITTEE. Toward stability in the Great Plains economy. Nebr. Agr. Expt. Sta. B. 399,110 p. July 1950. 100 N27

NEBRASKA. AGRICULTURAL EXPERIMENT STATION. Protein determinations of wheat from fertilizer experiments in western and west south central Nebraska, 1950. Nebr. Agr. Expt. Sta. Outstate Testing C. 10(sup.),3 p. 1950. 100 N270

DREIER, A. F., and EHLERS, P. L. Nebraska outstate varietal tests of spring small grains, 1950. Nebr. Agr. Expt. Sta. Outstate Testing C. 11,24 p. Oct. 1950. 100 N270

TEOTIA, S. P., DULEY, F. L., and MCCALLA, T. M. Effect of stubble mulching on number and activity of earthworms. Nebr. Agr. Expt. Sta. Res. B. 165,20 p. Ref. Sept.1950. 100 N27

New Hampshire Agricultural Experiment Station, Durham

YEAGER, A. F. Breeding improved horticultural plants. I. Vegetables. N. H. Agr. Expt. Sta. B. 380, 23 p. Apr.1950. 100 N45

NEW HAMPSHIRE. AGRICULTURAL EXPERIMENT STATION. Annual report of the director, 1949. N. H. Agr. Expt. Sta. B. 382,46 p. Dec.1949. 100 N45

BOWRING, J. R. Marketing New Hampshire potatoes. N. H. Agr. Expt. Sta. B. 386,25 p. Sept.1950. 100 N45

New Jersey Agricultural Experiment Station, New Brunswick

LEONARD, C. D., and BEAR, F. E. Sodium as a fertilizer for New Jersey soils. N. J. Agr. Expt. Sta. B. 752,24 p. Ref. Oct.1950. 100 N46S

NEW JERSEY. AGRICULTURAL EXPERIMENT STATION. Fertilizer and lime recommendations for New Jersey. N. J. Agr. Expt. Sta. C. 539,15 p. Nov.1950. 100 N46S

THOMPSON, W. C. Poultry litters. N. J. Agr. Expt. Sta. Hints Poultrymen 33(3),4 p. Nov.1950. 100 N46S

New Mexico Agricultural Experiment Station, State College

LEYENDECKER, P. J., JR. Effects of certain cultural practices on Verticillium wilt of cotton in New Mexico. N. Mex. Agr. Expt. Sta. B. 356,28 p. Ref. June 1950. 100 N46S

HARPER, R. E. An improved variety of chile for New Mexico. N. Mex. Agr. Expt. Sta. Press B. 1041, 4 p. Apr.1950. 100 N46S

STEPHENS, W. P. Farm incomes in the Mesilla Valley, New Mexico, 1946-1949. N. Mex. Agr. Expt. Sta. Press B. 1043,37 p. Oct.1950. 100 N46S

BLANK, L. M., and LEYENDECKER, P. J., JR. Spread of Verticillium wilt to disease-free soils by infected cotton stalks. N. Mex. Agr. Expt. Sta. Press B. 1044,3 p. Nov.1950. 100 N46S

U. S. Bureau of Plant Industry, Soils, and Agricultural Engineering cooperating.

LEYENDECKER, P. J., JR. Frost aids mold growth in sun-dried chile. N. Mex. Agr. Expt. Sta. Press B. 1045,3 p. Nov.1950. 100 N46S

New York (State) Agricultural Experiment Station, Geneva

HOLGATE, K. C. Changes in the composition of maple sap during the tapping season. N. Y. (State) Agr. Expt. Sta. B. 742,14 p. Ref. June 1950. 100 N48

LEE, F. A., and others. Low temperature preservation of fruit juices and fruit juice concentrates. N. Y. (State) Agr. Expt. Sta. B. 743,18 p. July 1950. 100 N48

W. B. Robinson, J. C. Henning, and C. S. Pederson, joint authors.

PEDERSON, C. S., and ALBURY, M. N. Effect of temperature upon bacteriological and chemical changes in fermenting cucumbers. N. Y. (State) Agr. Expt. Sta. B. 744,31 p. Ref. Aug.1950. 100 N48

North Dakota Agricultural Experiment Station, State College Station, Fargo

THAIR, P. J. Stabilizing farm income against crop yield fluctuations. N. Dak. Agr. Expt. Sta. B. 362, 31 p. Sept.1950. 100 N813

U. S. Bureau of Agricultural Economics cooperating.

GILCREAST, R. M. Sugar beet production in the Red River Valley. N. Dak. Agr. Expt. Sta. B. 363, 48 p. Dec.1950. 100 N813

Ohio Agricultural Experiment Station, Wooster

SCOTT, R. C., and HIGGINS, R. A. Marketing peaches, Canton-Youngstown area. Ohio. Agr. Expt. Sta. Res. C. 7,26 p. Oct.1950. 100 Oh3R

OHIO farm and home research 35:63-72. Sept./Oct.1950. 100 Oh3S

Oklahoma Agricultural Experiment Station, Stillwater

HARPER, H. J., and STOUT, O. E. Salt accumulation in irrigated soils; the prospect in Oklahoma. Okla. Agr. Expt. Sta. B. B-360,14 p. Oct.1950. 100 Ok4

HARPER, H. J., and BRENSING, O. H. Deep plowing to improve sandy land. Okla. Agr. Expt. Sta. B. B-362,28 p. Dec.1950. 100 Ok4

OKLAHOMA PRODUCTION ADJUSTMENTS COMMITTEE. 1951 farm production prospects in Oklahoma. Okla. Agr. Expt. Sta. Mimeog. C. M-205,26 p. Nov.1950. 100 Ok4M

U. S. Bureau of Agricultural Economics cooperating.

SCHLEHUBER, A. M. Small grain breeders seed production and the plant breeder's role. Okla. Agr. Expt. Sta. Mimeog. C. M-206,9 p. Nov.1950. 100 Ok4M

HARPER, H. J., and STOUT, O. E. The relation of soil texture to soluble salt accumulation in 29 irrigated soils in Oklahoma. Okla. Agr. Expt. Sta. Tech. B. T-39,27 p. Oct.1950. 100 Ok4

Oregon Agricultural Experiment Station, Corvallis

WILSON, M. A guide for the kitchen planner. Oreg. Agr. Expt. Sta. B. 482,35 p. Sept.1950. 100 Or3

REIMER, F. C. Development of blight resistant French pear rootstocks. Oreg. Agr. Expt. Sta. B. 485,24 p. Sept.1950. 100 Or3

BLANCH, G. E., MUMFORD, D. C., and LAWRENCE, W. W. Cost of producing grade A milk in the Willamette Valley section, Portland, Oregon, milkshed. Oreg. Agr. Expt. Sta. B. 486,64 p. Sept.1950. 100 Or3

OREGON. AGRICULTURAL EXPERIMENT STATION. Oregon's agricultural progress through research; 1950 annual report. Oreg. Agr. Expt. Sta. B. 491, 165 p. Nov.1950. 100 Or3

MUMFORD, D. C. Cost of producing turkey hatching eggs, western Oregon, 1949. (A preliminary report). Oreg. Agr. Expt. Sta. C. Inform. 488,4 p. Nov. 1950. 100 Or3C

LUNDE, R. N., and KIRK, D. E. A tilting-bed implement trailer. Oreg. Agr. Expt. Sta. C. Inform. 489, 2 p. Nov.1950. 100 Or3C

Pennsylvania Agricultural Experiment Station, State College

PENNSYLVANIA. AGRICULTURAL EXPERIMENT STATION. Science for the farmer; supplement 1 to the 63rd annual report. Pa. Agr. Expt. Sta. B. 529 (sup.1),11 p. Dec.1950. 100 P381



Rhode Island Agricultural Experiment Station, Kingston

RESEARCH 1:1-23. Summer-Fall 1950.  
100 R34R

South Dakota Agricultural Experiment Station, Brookings

SOUTH DAKOTA. AGRICULTURAL EXPERIMENT STATION. Agricultural research in South Dakota; sixty-third annual station report, 1949/50. Brookings, 1950? 139 p. 100 So82

Texas Agricultural Experiment Station, College Station

BROCK, F. D., and HOLLEMAN, M. P. Commercial feeding stuffs from September 1, 1949 to August 31, 1950. Tex. Agr. Expt. Sta. B. 725,150 p. Sept.1950. 100 T31S

FUDGE, J. F., and OGIER, T. L. Commercial fertilizers in 1949-50. Tex. Agr. Expt. Sta. B. 726,60 p. Sept.1950. 100 T31S

BURLESON, C. A., and others. The yield and quality of cabbage as affected by different levels of fertility and irrigation. Tex. Agr. Expt. Sta. Prog. Rpt. 1289,4 p. Nov.11,1950. 100 T31P

M. E. Bloodworth, J. S. Morris, P. W. Leeper, and W. R. Cowley, joint authors.

GAINES, J. C. Sorghum webworm [Celama sorghiella] control. Tex. Agr. Expt. Sta. Prog. Rpt. 1291, 2 p. Nov.21,1950. 100 T31P

GODFREY, G. H. Rio-sweet, a new downy mildew resistant cantaloupe. Tex. Agr. Expt. Sta. Prog. Rpt. 1292,3 p. Nov.21,1950. 100 T31P

REYNOLDS, E. B., and ROBERTS, J. E. The effect of legumes and nitrogen on the yields of cotton and corn on Lufkin fine sandy loam at College Station. Tex. Agr. Expt. Sta. Prog. Rpt. 1293,2 p. Nov.21,1950. 100 T31P

ALDRED, F. L., and KRAMER, H. A. Rice drying. Tex. Agr. Expt. Sta. Prog. Rpt. 1294,2 p. Nov.24, 1950. 100 T31P

HARVEY, C., and POTTS, R. C. Crimson clover variety test on Lufkin fine sandy loam at College Station, 1949-50. Tex. Agr. Expt. Sta. Prog. Rpt. 1295, 1 p. Nov.25,1950. 100 T31P

COVER, S. How to obtain desirable fill in glass jars of home-canned blackeye peas. Tex. Agr. Expt. Sta. Prog. Rpt. 1296,3 p. Nov.29,1950. 100 T31P

MARION, P. T., JONES, J. H., and FISHER, C. E. Cattle feeding studies at the Spur Station, 1949-50. Tex. Agr. Expt. Sta. Prog. Rpt. 1297,5 p. Nov.29,1950. 100 T31P

JONES, D. L., and others. Cotton variety tests at Lubbock, 1947-49. Tex. Agr. Expt. Sta. Prog. Rpt. 1298,6 p. Dec.6,1950. 100 T31P

J. Box, E. L. Thaxton, Jr., and L. L. Ray, joint authors.

RIGGS, J. K., COLBY, R. W., and PARHAM, A. P. Hydraulic-processed versus solvent-extracted cottonseed meal for wintering beef cows. Tex. Agr. Expt. Sta. Prog. Rpt. 1299,3 p. Dec.8,1950. 100 T31P

WARD, J. M., JONES, D. L., and PAULSON, W. E. Some effects of mechanical harvesting of cotton on the ginning business. Tex. Agr. Expt. Sta. Prog. Rpt. 1300,4 p. Dec.8,1950. 100 T31P

MCCARTHUR, W. C., BONNEN, C. A., and MAGEE, A. C. Production practices for Irish potatoes on the High Plains of Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1301, 7 p. Dec.15,1950. 100 T31P

GRUMBLES, L. C., and BONEY, W. A., JR. Laboratory examination of poultry specimens. Tex. Agr. Expt. Sta. Prog. Rpt. 1302, 3 p. Dec.18,1950. 100 T31P

SMITH, J. C., FUDGE, J. F., and ROBERTS, J. E. Fertilizers for cotton near College Station. Tex. Agr. Expt. Sta. Prog. Rpt. 1303, 3 p. Dec.18,1950. 100 T31P

Utah Agricultural Experiment Station, Logan

UTAH. AGRICULTURAL EXPERIMENT STATION. List of available publications. Logan, 1950. 11 p. 100 Ut1

FARM & home science 11:65-96. Dec.1950. 100 Ut1F

Washington Agricultural Experiment Station, Pullman

WEBSTER, R. L. New insecticides: their use, limitations and hazard to human health. Wash. Agr. Expt. Sta. C. 64,rev.,51 p. 1950. 100 W27S

HEINEMANN, W. W. The preservation of by-product feeds in the State of Washington. Wash. Agr. Expt. Sta. C. 84,7 p. Jan.1950. 100 W27S

SMITH, H. W. Nitrogen fertilizers for wheat production. Wash. Agr. Expt. Sta. C. 85,11 p. Mar.1950. 100 W27S

HORNER, G. M., and VANDECAVEYE, S. C. Nitrogen fertilizer for wheat, eastern Washington. Wash. Agr. Expt. Sta. C. 86,14 p. Mar.1950. 100 W27S

MOORE, J. F., and others. Growing sprouting broccolli in western Washington. Wash. Agr. Expt. Sta. C. 88,4 p. Apr.1950. 100 W27S

K. Baur, L. L. Stitt, and L. Campbell, joint authors.

CAMPBELL, L., and others. Growing pole beans in western Washington. Wash. Agr. Expt. Sta. C. 89,5 p. Apr.1950. 100 W27S

K. Baur, L. L. Stitt, and J. F. Moore, joint authors.

CAMPBELL, L., and others. Growing pole peas for fresh market in western Washington. Wash. Agr. Expt. Sta. C. 91,3 p. Apr.1950. 100 W27S

L. L. Stitt, K. Baur, and J. F. Moore, joint authors.

MOORE, J. F., and others. Growing tomatoes in the Puget Sound region of western Washington. Wash. Agr. Expt. Sta. C. 92,4 p. Apr.1950. 100 W27S

K. Baur, L. Campbell, and L. L. Stitt, joint authors.

BAUR, K., STITT, L. L., and MOORE, J. F. Carrot production in western Washington. Wash. Agr. Expt. Sta. C. 93,3 p. Apr.1950. 100 W27S

STITT, L. L., and others. Growing cabbage in western Washington. Wash. Agr. Expt. Sta. C. 94,4 p. Apr.1950. 100 W27S

L. Campbell, K. Baur, and J. F. Moore, joint authors.

MOORE, J. F., and others. Growing onions in western Washington. Wash. Agr. Expt. Sta. C. 95,3 p. Apr.1950. 100 W27S

L. L. Stitt, L. Campbell, and K. Baur, joint authors.

BAUR, K., MOORE, J. F., and STITT, L. L. Growing sweet corn in western Washington. Wash. Agr. Expt. Sta. C. 96,3 p. Apr.1950. 100 W27S

WASHINGTON. AGRICULTURAL EXPERIMENT STATION. Growing potatoes in western Washington. Wash. Agr. Expt. Sta. C. 97,6 p. Apr.1950. 100 W27S

LINDLEY, C. E., and others. Winter rations for beef cattle in western Washington. Wash. Agr. Expt. Sta. C. 98,2 p. Apr.1950. 100 W27S

B. H. Schneider, N. Dickson, and A. G. Law, joint authors.

WALKUP, H. G. Consumer response to the sale of frozen turkey quarters. Wash. Agr. Expt. Sta. C. 101,26 p. May 1950. 100 W27S

U. S. Bureau of Agricultural Economics and U. S. Production and Marketing Administration cooperating.

DAVIES, V. Table showing significance of differences between percentages (for uncorrelated data). Wash. Agr. Expt. Sta. C. 102,24 p. Sept.1950. 100 W27S

WASHINGTON. AGRICULTURAL EXPERIMENT STATION. Effect of fertilizers on the chemical compositions of plants and on their value as feeds. Wash. Agr. Expt. Sta. C. 103,13 p. June 1950. 100 W27S

JACKOBS, J. A. The influence of cutting schedule on the yield of hay and vigor of Ladak alfalfa in the Yakima Valley. Wash. Agr. Expt. Sta. C. 106,3 p. Aug.18,1950. 100 W27S

JACKOBS, J. A., and STANBERRY, C. O. Irrigated pastures in central Washington. Wash. Agr. Expt. Sta. C. 107,5 p. Aug.1950. 100 W27S

BROSE, C. P. Pertinent points in the control of mastitis in dairy cattle. Wash. Agr. Expt. Sta. C. 108, 5 p. Aug.1950. 100 W27S

SNODGRASS, D. Farm storage of wheat in Washington, 1948-49. Wash. Agr. Expt. Sta. C. 109,9 p. Sept.1950. 100 W27S

LINDLEY, C. E., ENSMINGER, M. E., and SCHNEIDER, B. H. Grass, grass-alfalfa mixtures, and fertilizer treatments for beef production in eastern Washington. Wash. Agr. Expt. Sta. C. 111,5 p. Sept.1950. 100 W27S

SCHNEIDER, B. H., and HUANG, T. C. Alfalfa, soil and antibiotics in the nutrition of young growing pigs. Wash. Agr. Expt. Sta. C. 112,5 p. Sept.1950. 100 W27S



GOODWIN, E. E., SCHNEIDER, B. H., and ENSMINGER, M. E. Comparative value of yellow, green and black peas in rations for growing-fattening pigs in the dry-lot. Wash. Agr. Expt. Sta. C. 113,5 p. Sept.1950. 100 W27S

MEYER, T. O. Carcass bruises inflicted in the shipment and handling of cattle prior to slaughter. Wash. Agr. Expt. Sta. C. 114,3 p. Sept.1950. 100 W27S

SCHNEIDER, B. H., and BRUGMAN, H. H. Pelleting feed for pigs. Wash. Agr. Expt. Sta. C. 115,4 p. Sept.1950. 100 W27S

GALGAN, M. W., ENSMINGER, M. E., and HAM, W. E. Improved pastures for light horses. Wash. Agr. Expt. Sta. C. 116,3 p. Sept.1950. 100 W27S

HOOBLER, S. Q. Some aspects of the competitive position of the Washington potato industry. Wash. Agr. Expt. Sta. C. 118,33 p. Oct.1950. 100 W27S

Wisconsin Agricultural Experiment Station, Madison

SMITH, D., and GRABER, L. F. Performance of regional strains of Ranger alfalfa. Wis. Agr. Expt. Sta. Res. B. 171,13 p. Sept.1950. 100 W75



STATE AGRICULTURAL EXTENSION SERVICE  
PUBLICATIONS

Includes State Agricultural Extension Service publications received in the library during the preceding month.

Publications issued by the State Agricultural Extension Services are not available from the U. S. Department of Agriculture but are often available from the publishing extension service.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

California University, College of Agriculture, Agricultural Extension Service, Berkeley

JACOB, H. E., and WINKLER, A. J. Grape growing in California. Calif. Agr. Col. Ext. C. 116, rev., 79 p. Nov. 1950. 275.29 C12C

BUTTERFIELD, H. M. Rose culture in California. Calif. Agr. Col. Ext. C. 148, rev., 44 p. Oct. 1950. 275.29 C12C

Delaware University, School of Agriculture, Extension Service, Newark

DELAWARE UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Poultry disposal pits. Del. U. Agr. Ext. Folder 22,4 p. Oct. 1950. 275.29 D37W

Hawaii University, Agricultural Extension Service, Honolulu

PHILIPP, P. E. 1951 [income] tax guide for Hawaiian farmers. Hawaii. U. Agr. Ext. C. 259, rev., 30 p. Nov. 1950. 275.29 H312Ac

Illinois University, College of Agriculture, Extension Service, Urbana

CUNNINGHAM, J. B. Reimbursement agreement for improvements made by a tenant. Ill. Agr. Col. Ext. C. 673,4 p. Nov. 1950. 275.29 IL62C

ILLINOIS UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Available publications, agriculture and home economics. Urbana, 1950. 12 p. 275.29 IL62Av

Indiana - Purdue University, Agricultural Extension Service, Lafayette

PRICE, W. A. Beekeeping in Indiana, revised by B. E. Montgomery. Purdue U. Agr. Ext. B. 158, rev., 28 p. 1950. 275.29 In2E

MONTGOMERY, B. E. Honeybee brood diseases. Purdue U. Agr. Ext. B. 212, 12 p. 1950. 275.29 In2E

DAVIS, J. J. The prevention and control of termites. Purdue U. Agr. Ext. B. 225, rev., 16 p. 1950. 275.29 In2E

COLE, R. O. Soil conservation in Indiana. Purdue U. Agr. Ext. B. 228, 28 p. 1950. 275.29 In2E

LEHKER, G. E. Insect pests of the flower garden. Purdue U. Agr. Ext. B. 239, rev., 16 p. 1950. 275.29 In2E

LEE, O. C., and DOYLE, L. P. Indiana plants poisonous and injurious to livestock. Purdue U. Agr. Ext. B. 240, rev., 24 p. 1950? 275.29 In2E

Louisiana State University and Agricultural and Mechanical College, Division of Agricultural Extension, University Station, Baton Rouge

FLOYD, E. H., SMITH, C. E., and STRONG, R. G. Get a good stand of corn by controlling soil insects. La. Agr. Col. Ext. Mimeog. E-1,4 p. Jan. 1950. 275.29 L93Mi

FLOYD, E. H., SMITH, C. E., and STRONG, R. G. Control corn earworms [*Heliothis armigera*] in sweet corn. La. Agr. Col. Ext. Mimeog. E-2, 4 p. Mar. 1950. 275.29 L93Mi

STRONG, R. C., and SMITH, C. E. Control cutworms and armyworms [*Cirphis unipuncta*] in legumes, cereal crops and grasses. La. Agr. Col. Ext. Mimeog. E-3, 2 p. Apr. 1950. 275.29 L93Mi

Maine University, College of Agriculture, Agricultural Extension Service, Orono

BRIWA, K. E. Curing meat for home use. Maine. Agr. Col. Ext. B. 402, 10 p. Aug. 1950. 275.29 M281B

EGGERT, F. P. Fruits for Maine. Maine. Agr. Col. Ext. B. 403, 12 p. Sept. 1950. 275.29 M281B

BRIWA, K. E. Quick breads. Maine. Agr. Col. Ext. B. 404, 8 p. Oct. 1950. 275.29 M281B

MAINE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Director reports on extension work, 1949/50. Maine. Agr. Col. Ext. B. 405, 43 p. Nov. 1950. 275.29 M281B

SMITH, C. C. Be nimble with your needle. Maine. Agr. Col. Ext. B. 407, 22 p. Nov. 1950. 275.29 M281B

MANCHESTER, A. W. Social security for farm workers. Maine. Agr. Col. Ext. C. 263, 6 p.-folder. Dec. 1950. 275.29 M281C

Maryland University, College of Agriculture and Home Economics, Extension Service, College Park

SHULL, S. C., and GODWIN, M. R. Consumer shopping habits. Md. Agr. Col. Ext. B. 137, 28 p. June 1950. 275.29 M36B

WEAVER, L. O., JEFFERS, W. F., and BISELL, T. L. Dutch elm disease. Md. Agr. Col. Ext. B. 138, 11 p. Aug. 1950. 275.29 M36B

BENDER, E. K. Use of hormone sprays on field tomatoes to aid early fruit set. Md. Agr. Col. Ext. Misc. P. 112, 2 p. Mar. 1950. 275.29 M36Mis

BENDER, E. K. Ten suggestions for growing tomatoes in the home garden. Md. Agr. Col. Ext. Misc. P. 117, 1 p. May 1950. 275.29 M36Mis

NYSTROM, P. E., and MEYER, A. R. Economic importance of eastern livestock; production, consumption, value. Md. Agr. Col. Ext. Misc. P. 124, 21 p. May 1950. 275.29 M36Mis

Minnesota University, Department of Agriculture, Division of Agricultural Extension, University Farm, St. Paul

ZAVORAL, H. G. Hog health makes wealth. Minn. U. Agr. Ext. B. 119, rev., 15 p. June 1950. 275.29 M66S

MORRIS, W. E., and HARVEY, A. L. Beef production. Minn. U. Agr. Ext. B. 146, rev., 28 p. June 1950. 275.29 M66S

OLSON, R. E., and DVORACEK, D. C. Frozen food locker plants and home freezers in Minnesota. Minn. U. Agr. Ext. B. 259, 16 p. June 1950. 275.29 M66S

MILLER, M. M. Soap and other detergents, their selection and use on wash day. Minn. U. Agr. Ext. B. 261, 8 p. June 1950. 275.29 M66S

MATHEIS, H. H. Reupholstering at home. Minn. U. Agr. Ext. B. 262, 27 p. June 1950. 275.29 M66S

WISDOM, G. N. The little woman is changing the hog market. Minn. U. Agr. Ext. Folder 151, 8 p. Aug. 1950. 275.29 M66P

MILLER, M. M. The family dollar; plan its use for better family living. Minn. U. Agr. Ext. Pam. 173, 6 p.-folder. Oct. 1950. 275.29 M66P

MILLER, M. M. Getting your money's worth. Minn. U. Agr. Ext. Pam. 175, 6 p.-folder. Oct. 1950. 275.29 M66P



Nebraska University, College of Agriculture, Agricultural Extension Service, Lincoln

CHASE, F. J., and SNIPES, L. F. Leasing arrangements on pump-irrigated farms; Adams, Clay, Fillmore, Hamilton and York Counties, Nebraska, 1948-1949. Nebr. Agr. Col. Ext. C. 885, 8 p. Sept. 1950. 275.29 N272Ex

NEBRASKA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Nebraska poultry cost account study, 1949-1950. Nebr. Agr. Col. Ext. C. 1465, rev., 6 p. Nov. 1950. 275.29 N272Ex

HANSON, L. E. Practical explanation of some terms in animal nutrition. Nebr. Agr. Col. Ext. E. C. 252, 8 p. Oct. 1950. 275.29 N272Ex

STEELE, J. C. Temporary or emergency silos. Nebr. Agr. Col. Ext. E. C. 728, 14 p. Nov. 1950. 275.29 N272Ex

New Hampshire University, College of Agriculture and the Mechanic Arts, Extension Service, Durham

BARRACLOUGH, K. E. Forest market report, 1951. N. H. Agr. Col. Ext. B. 96, 26 p. Nov. 1950. 275.29 N45

COLBY, H. N., and WARREN, R. Three-story 48' poultry house. N. H. Agr. Col. Ext. Poultry Housing Ser. 3, 3 p. June 1950. 275.29 N452P

New York State College of Agriculture and Home Economics, Extension Service, Cornell University, Ithaca

GOODMAN, A. M. Homes for laying hens. N. Y. Agr. Col. Cornell Ext. B. 451, rev., 63 p. Nov. 1950. 275.29 N48E

WEAVER, E. K., and COUSENS, D. W. A simple way to iron a shirt. N. Y. Agr. Col. Cornell Ext. B. 629, rev., 13 p. Nov. 1950. 275.29 N48E

SMART, M. A book list for parents. N. Y. Agr. Col. Cornell Ext. B. 802, 16 p. Dec. 1950. 275.29 N48E

PALMER, E. L. Fish and fishing. N. Y. Agr. Col. Ext. Cornell Rur. Sch. L. 44(2), 32 p. Ref. Nov. 1950. 275.29 N48R

Oklahoma Agricultural and Mechanical College, Extension Division, Stillwater

ARMSTRONG, O. Appropriate finishes. Okla. Agr. Col. Ext. C. 269, 44 p. n.d. 275.29 Ok41C

OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE. EXTENSION DIV. 4-H junior leadership. Okla. Agr. Col. Ext. C. 530, 8 p. n.d. 275.29 Ok41C

Oregon State College, Federal Cooperative Extension Service, Corvallis

SINNARD, H. R., EWALT, H. P., and HUBER, M. G. Dairy buildings. Oreg. State Col. Ext. B. 711, 19 p. Nov. 1950. 275.29 Or32B

Puerto Rico University, College of Agriculture, Extension Service, Rio Piedras

PUERTO RICO UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Compañero empleado: el almuerzo no es problema si organizamos una cafetería cooperativa. P. R. Agr. Col. Ext. Dept. Coop. Fol. 9, 6 p. Sept. 1950. 275.29 P962F

Texas Agricultural and Mechanical College, Agricultural Extension Service, College Station

LOW, F. W., and others. Farm and home planning. Tex. Agr. Col. Ext. B. 183, 12 p. 1950. 275.29 T312

G. Darden, G. Thames, C. H. Bates, and R. L. Donahue, joint authors.

Utah State Agricultural College, Extension Service, Logan

BAIRD, G. T. Pasture mixtures, seeding and management. Utah. State Agr. Col. Ext. B. 183, rev., 11 p. June 1950. 275.29 Ut1

JENKINS, W. R. Selecting for egg production: past, present and future. Utah. State Agr. Col. Ext. B. 186, 11 p. June 1950. 275.29 Ut1

RICH, L. H., and others. Efficiency studies of Utah dairy pastures. Utah. State Agr. Col. Ext. B. 188, 24 p. Jan. 1950. 275.29 Ut1

A. F. Bracken, W. H. Bennett, and G. T. Baird, joint authors.

MILLER, E., and SHIPLEY, F. Come to our party; 4-H foods project, phase IV. Utah. State Agr. Col. Ext. B. 194, 28 p. Apr. 1950. 275.29 Ut1

GARDNER, R. H. Beauty treatments for furniture in three easy steps. Utah. State Agr. Col. Ext. B. 196, 4 p. May 1950. 275.29 Ut1

GARDNER, R. H. Making curtains and drapery. Utah. State Agr. Col. Ext. B. 198, 15 p. June 1950. 275.29 Ut1

RAWLEY, E., LOW, J. B., and GREAVES, E. O. Venison, its care and cooking. Utah. State Agr. Col. Ext. B. 200, 21 p. June 1950. 275.29 Ut1

MILLER, E. Enjoy yeast breads, both plain and fancy. Utah. State Agr. Col. Ext. B. 201, 47 p. June 1950. 275.29 Ut1

UTAH STATE AGRICULTURAL COLLEGE. EXTENSION SERV. What is the cost of brucellosis to you? Utah. State Agr. Col. Ext. B. 202, 4 p.-folder. June 1950. 275.29 Ut1

UTAH STATE AGRICULTURAL COLLEGE. EXTENSION SERV. Brucellosis must be eradicated! Utah. State Agr. Col. Ext. B. 203, 4 p.-folder. May 1950. 275.29 Ut1

RICH, L. H., and others. Artificial breeding of dairy cattle in Utah. Utah. State Agr. Col. Ext. B. 204, 18 p. June 1950. 275.29 Ut1

L. R. Hunsaker, W. Binns, and G. B. Caine, joint authors.

UTAH STATE AGRICULTURAL COLLEGE. EXTENSION SERV. Progress through dairy herd improvement in Utah. Utah. State Agr. Col. Ext. B. 205, 18 p. June 1950. 275.29 Ut1

LOW, J. B., and PIERCE, C. Wild ducks & geese; field to kitchen care. Utah. State Agr. Col. Ext. B. 206, 8 p. June 1950. 275.29 Ut1

KNOWLTON, G. F. Colorado potato beetle [*Leptinotarsa decemlineata*]. Utah. State Agr. Col. Ext. B. 207, 2 p. June 1950. 275.29 Ut1

MOORE, R. R. Air seasoning of Utah's forest products. Utah. State Agr. Col. Ext. B. 208, 22 p. Ref. June 1950. 275.29 Ut1

UTAH STATE AGRICULTURAL COLLEGE. EXTENSION SERV. What grass means to Utah. Utah. State Agr. Col. Ext. B. 210, 6 p.-folder. June 1950. 275.29 Ut1

Washington State College, Extension Service, Pullman

WASHINGTON STATE COLLEGE. POULTRY COUNCIL. Nests and their care. Wash. State Col. Ext. B. 335, 10 p. June 1950. (Poultry Pointers 30, rev.) 275.29 W27Pou

WASHINGTON STATE COLLEGE. POULTRY COUNCIL. Turkey breeder houses and equipment. Wash. State Col. Ext. B. 371, 12 p. Nov. 1950. (Poultry Pointers 40, rev.) 275.29 W27Pou

CHAPMAN, L., LAW, A. G., and MORRISON, K. J. Pasture management. Wash. State Col. Ext. B. 435, 12 p. Dec. 1950. 275.29 W27P

HOBSON, K. Keeping up on the farm outlook. Wash. State Col. Ext. C. 167, 6 p.-folder. Nov. 30, 1950. 275.29 W27C

West Virginia University, College of Agriculture, Agricultural Extension Service, Morgantown

BOAL, R. S. More milk means more money. W. Va. Agr. Col. Ext. C. 358, 19 p. Oct. 1950. 275.29 W522C



Wisconsin University, College of Agriculture, Agricultural Extension Service, Madison

TRENK, F. B., and BRENER, W. H. How to succeed with forest plantations; a planting handbook. Wis. Agr. Col. Ext. C. 381,23 p. Aug.1950. 275.29 W75C

HOFFMANN, G. M. Braided rugs. Wis. Agr. Col. Ext. C. 389,15 p. Sept.1950. 275.29 W75C

WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Milk and eggs in our meals. Wis. Agr. Col. Ext. C. 4-H 46,rev.,24 p. July 1950. 275.29 W75Cf

WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Farmer's 1950 income tax. Wis. Agr. Col. Ext. Spec. C. 12,24 p. Nov.1950. 275.29 W75S

WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. DEPT. OF VETERINARY SCIENCE. Avian trichomoniasis. Wis. Agr. Col. Ext. Stencil C. 323, 4 p. July 1950. 275.29 W75B

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Includes publications received in the library during the preceding month.

CONFERENCE ON NUTRITION PROBLEMS IN LATIN AMERICA. 2d, RIO DE JANEIRO, 1950. Report. Washington, Food and Agriculture Organization of the United Nations, 1950. 34 p. 389.9 C7622

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Commodity reports: meat and livestock. Washington, 1950. 28 p. 281.3509 F73

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Monthly bulletin [of] food and agricultural statistics 4(1), 32 p. Jan. 1951. 251 F73M

FOOD AND AGRICULTURAL ORGANIZATION OF THE UNITED NATIONS. Planning a national forest inventory. Food & Agr. Organ. United Nations. FAO Forestry & Forest Prod. Studies 1, 88 p. Sept. 1950. 99.9 F73Fa

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. AGRICULTURE DIV. PLANT INDUSTRY BR. Results of co-operative hybrid maize tests in Europe, 1949; a progress report. Food & Agr. Organ. United Nations. Agr. Devlpmt. Paper 7, 33 p. Oct. 1950. 281.9 F733

INTERNATIONAL RICE COMMISSION. Report of the second session Rangoon, Burma, 6-11 February 1950. Bangkok, Food & Agr. Organ. United Nations, 1950. 46 p. 59.9 In83

RITCHIE, J. A. S. Teaching better nutrition; a study of approaches and techniques. F. A. O. Nutr. Studies 6, 148 p. Nov. 1950. 389.9 F735Fan

STOVER, J. H. Fertilizer manufacturing projects; their planning and financing. Food & Agr. Organ. United Nations. Agr. Devlpmt. Paper 1, 19 p. Nov. 1949. 281.9 F733

UNASYLVA 4:145-192. Oct./Dec. 1950. 99.8 Un1

WILLIAMS, M. B. Water laws in the United States of America. Food & Agr. Organ. United Nations. Agr. Devlpmt. Paper 2, 161 p. Mar. 1950. 281.9 F733



## AUTHOR INDEX

	<u>Item</u>		<u>Item</u>		<u>Item</u>		<u>Item</u>		<u>Item</u>
Aaheim R	20471	Albert A D Jr	19476	Amato F d'	18640	Anderson R A	24478	Armstrong N	20092
Aall-Ottesen	23996	Alberta Federa-	25669	Ameel D J	22959	Anderson T F	18558	Armstrong O	25939
Aalto O	21808	tion of Agri-		Amelinckx F	19479	Andersson G	19195	Arnaud P H	22695
Aaltonen V T	20644	culture		Amelinckx F	20566	Andersson G	19196	Arnholm C J	25443
Aamodt O S	19060	Albertario P	23486	American Aber-	21263	Andersson Y	23119	Arnim W von	25161
Aamodt O S	19061	Albertario P	25724	deen-Angus		Andersson Y	23120	Arnold B L	19002
Aamodt O S	19064	Albertario P	25725	Breeders'		Andlinger H	23143	Arnold Mrs H G	18168
Aaron I	19363	Alberts J O	21855	Association		Andrade A C de	18468	Arnold G	18212
Abbott C H	22871	Albertsen N	23289	American Asso-	19480	Andrade T de	23582	Arnold R E	19482
Abbott J B	19062	Al'bitskala M A	18615	ciation of Nurs-		Andral	21175	Arnold R E	19483
Abeele vanden	24089	Albrecht R	25118	erymen		Andral L	21788	Arnon D I	25903
Abel E	20245	Albrecht W A	18907	American Asso-	24000	André E	24649	Artigas	25677
Abel P M	25159	Albrecht W A	20062	ciation of Tex-		Andrés F	18469	Arfshikhovskafá	18917
Abol' I P	20813	Albrecht W A	20247	tile Chemists		Andrés F	18470	E V	
Abonnenc E	22708	Albury M N	24332	and Colorists		Andresen N	21558	Artozoul	19400
Abonnenc E	22709	Alcaraz Mira E	18571	Piedmont Sect		Andrews H N	18214	Arutunova L G	18686
Abrahamse S	19364	Aldén B	23280	American	24998	Jr		Asahina Y	18362
Abrahamse S	19365	Alderson W	23437	Bankers Assoc-		Andries A	19168	Asami O	24461
Abrahamsen M A	25667	Aldinger G	18383	iation		Andrus C F	18522	Asami O	24462
Abramov I I	19475	Aldred F L	24361	Agricultural		Anduze P J	22766	Asenjo C F	25831
Abramova A L	18227	Aldrich D G	18710	Commission		Angeli L	18742	Ash J	22976
Abreu J de	21248	Aleksandrov L	25119	American Bank-	24999	Angelini G	20472	Ashbaugh F A	19828
Abreu J de	21275	Alekseev A	25120	ers Association		Angell G N	19066	Ashby D G	18746
Abromelt K	22441	Alemanni N M	20322	Agricultural		Angell G N	20249	Ashley M	19484
Ackerman C B	25550	Alencar F M A	20323	Commission		Angell G N	24486	Ashton H	24002
Ackerman C B	25551	de		American Farm	25671	Angell G N	24162	Asp O	24852
Ackerman F E	23997	Alessandrini	24362	Bur Federation		Angell G N	25955	Aspesoeter O	19485
Ackerman J	25487	M E		American Insti-	23438	Angell G N	24162	Assenmacher I	21909
Ackerman W	20061	Alexander A D	21794	tute of Food		Aniansson G	23179	Associação In-	23508
Ackerson C W	23401	Alexander A K S	21827	Distribution		Aniansson G	23180	dustrial Portu-	
Ackert J E	21900	Alexander C P	22693	American Meat	24621	Anikiev V V	18743	guesa	25552
Ackert J E	21930	Alexander C P	22694	Institute Found-		Anisanel A A	23583	Association of	24853
Ackert J E	21984	Alexander D M	20267	ation		Anistratov P	25297	Land-Grant	
Acland, Sir R.	25160	Alexander E D	20090	American Meat	24637	Anselmi S	24650	Colleges and	
Acosta C A	18685	Alexander L J	18572	Institute Found-		Ansembourg	18165	Universities	
Acosta O hijo	22139	Alexander P	23999	ation		V d'		Association of	24853
Adams A M	18639	Alexandrowicz	20645	American Medi-	25616	Ansembourg	18616	Sugar Produc-	
Adams G	18164	B W		cal Association		V d'		ers of Puerto	
Adams G	25820	Alexopoulos C J	18361	American Muse-	22557	Anson A E	24163	Rico	
Adams G A	20944	Alfalfa Im-	19064	um of Natural		Anthony A	19481	Astakhov I	19067
Adams H S	23865	provement		History		Antoniani C	23390	Astvat'satrian	19486
Adams H S	23870	Conference		American Muse-	22792	Antoniani C	23391	Z A	
Adams W E	19148	Allahabad Agri-	23866	um of Natural		Antonio F d'	25672	Attack F W	23464
Adamson D M	22964	cultural Insti-		History		Apice M d'	21104	Atchley F O	21106



Item	Item	Item	Item	Item	Item
Babcock W E 21965	Baptiste W 19930	Bauer R 19404	Becquerel P 18752	Benson L 18261	
Bachman K L 25444	Baqué Z 25956	Bauer S T 24652	Bederke O 21113	Benson T A 21994	
Baerends G P 22831	Baranov P A 20094	Bauer W 20095	Bederker V K 19043	Bent E R 22445	
Baerends-Van Roon J M 22831	Baranov Y Z 24211	Baum R K 24371	Bedouet J 19737	Bentz H 21764	
Baetsle R 23588	Barat J 19403	Baumann C A 21042	Beebe R W 25083	Ber A 18755	
Bagge F 23439	Baratte 23015	Baumann C A 23956	Been R O 23441	Ber A 18756	
Baler W 21418	Barber H D 20071	Baumann C A 23957	Beer 19288	Ber A 18757	
Bail A 23014	Barbier G 18747	Baumann H 25488	Beer 19494	Ber A 18758	
Bailey F 25049	Barboriak J 21359	Baumann J 19287	Beernink H J 25555	Ber A 18759	
Bailey J S 19402	Barcelo D 24566	Baumann J 24165	Beers Z H 20096	Berarducci C 21426	
Bailey J W 21107	Barcelo Garcia 21828	Baumgarten O 25164	Beeson F W 24740	Bercks R 18576	
Bailey V B 23867	de Paredes A 21109	Baumgarten O 25551	Beeson K 18971	Bercks R 18577	
Bailey V D 21993	Bardoulat M 20967	Baur K 19734	Beeson W M 22217	Berends J L 19497	
Bailey V D 20700	Bardyshev I I 20967	Baur K 19735	Beetle A A 18259	Berezin P G 20325	
Bailey V D 21041	Barefoot A C 20838	Baur K 19753	Beheyt C 22357	Berezova E F 20006	
Bailey V D 22540	Bareggi G 21726	Baur K 19754	Behne E R 24858	Berezova E F 20007	
Bailly J 21200	Barger W R 24270	Baur K 19789	Behnken D 22063	Berg C O 22698	
Bain D C 18385	Bargioni G 22293	Baur K 19790	Behrens H 21762	Berg C van den 25165	
Bain H M 24367	Barlini-Banchi G 23590	Baur K 19791	Beijerinck W 18260	Berg G L 23358	
Bains G S 18688	Barlini-Banchi G 23591	Bausman R O 24770	Beijers J A 21763	Berg H W 23593	
Bair A 25553	Barkas W W 21015	Bavaria Statis- 23559	Beilmann A P 18753	Berg L R 21866	
Baird G T 19068	Barke A 21630	tisches Landes- 23559	Beilmann A P 19495	Berg M 25166	
Baird G T 19152	Barker C A V 21420	amt 18574	Beilmann A P 22443	Berger 24488	
Baird P D 24368	Barker E B 21809	Bawden F C 18574	Beinhart E G 24932	Berger K C 20096	
Baker G L 23385	Barker S A 23392	Bawden F C 18575	Beisel C G 19340	Berger W C 23958	
Baker H L 20616	Barkley P 23363	Bax L D 21265	Bekirov U I 19405	Bergfeld A J 23821	
Baker K F 20371	Barlow H W B 18748	Baxa J 24855	Béky L 25121	Berghen C 18173	
Baker M L 24487	Barnes R D 21631	Baxa J 24856	Belani E 20979	vanden 18173	
Baker R H 25080	Barnes C T 19491	Baxter R W 18171	Beldame R 22444	Berghen C 18346	
Bakers Weekly 23372	Barnes H J 23510	Bayer J 23365	Bel'gard A L 18615	vanden 18617	
Bakker G de 19936	Barnes J A 20915	Bayldon R C 21614	Belgium Com- 23230	Berghen C 18629	
Bakker G de 19937	Barnes R H 22442	Baylis R J 18397	mision du 23230	vanden 18629	
Bakker S 21419	Barnett A P 19148	Bayma C 25446	Génie Rural 24124	Berglund N 23183	
Bakker S 21904	Barney D L 22377	Bayma C 25947	Belifsin N 24124	Bergman S I 20943	
Bal S N 18169	Baron D R 21559	Bazemore G M 23511	Bell A E 21829	Bergmann A T 22446	
Balachowsky A 22786	Barr J E 24960	Bazex 21664	Bell A F 24859	Bergoffen B 20624	
Balás G 22832	Barracano P 24370	Bazhenov V A 21016	Bell C E Jr 22262	Bergoffen B 20998	
Balassa R 20005	Barracraugh 20773	Beach E F 25788	Bell H P 18642	Bergold G H 22274	
Balasubrahman- 18559	Barraza 25163	Beal G M 21569	Bell L 18212	Bergsma J 20413	
yan R 18559	Quiroga O 20942	Beal J M 18750	Bell M A 25957	Berkey B 21810	
Balcom R B 19829	Barreda J A 20942	Beale F A 19831	Bell T A 18481	Berkner 18760	
Bald J G 18573	Barreto P R 21110	Beale O W 19953	Belle G 21347	Bermuda Dept of 25861	
Baldacci M 24651	Barrett C 18170	Bean L H 25993	Bellotti L 20916	Agriculture 19071	
Baldelli B 21108	Barrett W C 20291	Beanblossom 24739	Belousov S A 25965	Bernard P 24372	
Balducci A 21264	Barrett J 22972	F Z 19492	Belov P T 25905	Bernard P 25389	
Balduf W V 22787	Barron N 21421	Beane J B 19492	Belozarov P I 20567	Bernimolin 22308	
Baldwin C H 23819	Barros H de 24164	Bear F E 20158	Bels P J 19738	Bernskiöld A 24005	
Baldwin E M Jr 22142	Barros J A C de 23440	Bear F E 25489	Belschner H G 22145	Bernstein H 24006	
Balev P M 19942	Barros R de 22697	Beard D 21905	Bel'skafa M A 19948	Bernström P 18761	
Balfour E B 20063	Barry V C 18933	Beard F J 24611	Belt J B M 19984	Berrios A T 20326	
Ballnt G J 19732	Barthe R 22596	Beard J S 19832	van den 19984	Berry G H 19498	
Ball G C 19488	Barthe R 22597	Beard J W 21905	Beltrán V 20545	Berry R L 25490	
Ballard Mrs 19489	Bartholomew 18386	Beard L J 20750	Beltrán Mon- 21425	Berry W R 24860	
C M 25298	Bartlett D E 21422	Beard W A 21906	ferrer J M 21727	Berthault P 20097	
Ballard R E 21358	Bartlett R W 23820	Bearse G E 21864	Beltrán Mon- 25728	Berthelom M 21266	
Ballot 19470	Barton W E 25081	Bearse G E 21866	ferrer J M 25728	Berthelom M 21427	
Ballweg E 19185	Bartram R D 18387	Beattie C 23121	Beltrán Mon- 25728	Berthelom M 21765	
Balthis F K 19490	Bartunek R 24003	Beatty A V 18808	ferrer J M 25728	Berthelom M 21766	
Baltzer R N 25000	Bartusch W 23474	Beaudette F R 21907	Benafm Pinto H 25782	Berti L A 23594	
Balzac R P 23589	Barda C J 21206	Beaudette F R 21911	Benavidez C C 19070	Berti L A 23595	
Banco de la Re- 25001	Bas J W 20033	Beaumont A 18472	Bender E K 19739	Bertin C 18388	
pública Oriental 25001	Basilevsky P 22598	Beauchny J 22599	Beneke E S 18473	Bertin S V 22541	
del Uruguay 25001	Baslavskaja S S 18749	Beck A 24004	Beneke R R 25300	Bertolina G 24007	
Bandeira A T 19733	Basset J 21111	Beck A B 22143	Beneyto Sanchez 19231	Bertone E B 24489	
Bandini M 22100	Basset J 21112	Beck E 21791	Benezet L 19496	Bertoni J 20327	
Bandini M 25445	Basset J 21423	Beck L D 23868	Bengoechea J A 22146	Bertossi F 18762	
Banfi A 20324	Bastian J 24961	Beck S D 22873	Benic R 20903	Bertram D M 22767	
Banif A 19339	Batchelor G S 22788	Becker 21560	Benitt L J 24220	Bertram D M 22768	
Bank Deutscher 25002	Batchelor L D 18764	Becker D E 22144	Benk E 21865	Bertram F 21114	
Länder 25002	Bates C H 25341	Becker E R 21908	Ben'kovskii B F 23108	Bertrand M 24828	
Bank of Nova 23374	Batra H N 22749	Becker G 19736	Bennett H 20250	Bertsch M 19072	
Scotia 23374	Battaglia E 18641	Becker H 22600	Bennett H 20251	Berwick E J H 19740	
Banks C 19983	Battaglia E 18689	Becker H 23592	Bennett H D 20464	Berwick E J H 23016	
Banks E M 25904	Battaglia E 22789	Becker J 18172	Bennett H H 20325	Besana A 21561	
Banta E S 23144	Battistelli E 20225	Becker M 24448	Bennett J A 21379	Bess H A 22294	
Banti G 20701	Bauer F 18471	Becker R 19069	Bennett J F 24221	Besser A A 20968	
Bañuelos M 25299	Bauer H 23357	Becker T 18751	Bennett W H 19152	Best K 24741	
Baptist A G 25322	Bauer H R 22226	Beckman H J 22186	Bennie R A 25301		
Baptist N G 24369	Bauer K 18177	Beckman H J 25082	Benoist R 22833		
		Beckx A 19493	Benoit J 21909		



	Item		Item		Item		Item		Item
Best K	25556	Blatzot J	25832	Bond J	19076	Boutières D	20569	Brenan J P M	18268
Bethel J S	20838	Blazot S	25832	Bond M C	20253	Bova G	19342	Brenckle J F	19505
Bettenay R A	21562	Blakely C L	21633	Bond M C	24222	Bowman D	19002	Brener W H	20726
Bettinger L	24271	Blakemore F	21360	Bond T E	23250	Bowman D I	23233	Brenner H	25000
Bettini S	22295	Blakley A A	24567	Bond W R	20876	Bowring J R	24223	Breising O H	20230
Bettini S	22296	Blanch G E	25390	Bondon J	20226	Bowyer M	23737	Breon W S	25412
Bettini S	22943	Blanchard	19197	Bondon J	23184	Box J	19051	Brétignière	25172
Bettini T M	21244	Blanco Macias G	20098	Bondorff K A	20145	Boxler B	23097	Brétignière L	18946
Bettini T M	24008	Blaney H F	20252	Boney W A Jr	21938	Boyce E A W	24012	Brétignière L	18974
Beukenkamp	25167	Blank L M	18474	Boney W A Jr	21939	Boyd A G	21118	Bretschneider R	22876
R L		Blas Henriquez	24555	Bonifacio F	19742	Boyd A G	21434	Brew W B	23960
Bevenue A	24215	(Hijo) J		Bonnemaison L	18579	Boyd J C	23921	Brezhnev D D	18690
Beyer G F	23624	Blasingame R U	23017	Bonnemaison L	22791	Boyd W L	21435	Brickwood H	23146
Bhaduri J L	21115	Blattny C	22790	Bonnen C A	19787	Braak A J	21436	Bridges R G	22438
Bhargava K P	24653	Blauw P	19366	Bonnet L	21831	Braathe P	18767	Briebeler W L	23077
Bhat G N	24009	Blauwhof W G	21267	Bonnier G	22699	Brabandere E	24013	Brieger F G	18691
Bhatnagar S P	22934	Blaxter K L	21361	Bonsma J C	21272	de		Brieger F G	18975
Bhattacharjee	24373	Blazhkevich F	21815	Bonsma J C	21431	Bracke J	18785	Brierem K	21385
J P		Blendinger W	21428	Bontempo	23750	Bracken A F	19152	Brimmer B	22171
		Blew J O	20875	Bontreger J	23145	Bradbury C J	21565	Briner V	19506
Bianchi Bazer-	21767	Blickstaff C C	22874	Boock O J	18608	Bradbury C J	21566	Brink V	19507
que A	22542	Blick L de	21912	Bookhout B R	24985	Bradbury L B	19504	Brinker W O	21634
Bianchi Bazer-		Bliss D E	19341	Boot-Schel-	24272	Bradfield R	19943	Briquet Junior R	21275
que A		Bliss M	19185	linkhout J		Bradford C J	25558	Bristol Univer-	19249
Bice A	25491	Bliss M	21230	Booth C O	22904	Bradshaw J B	23959	sity	
Bice C M	23071	Blom G	19741	Bor N L	18262	Bradshaw R P	22064	Agricultural	
Bidwell J	21935	Blomquist H L	18287	Bor N L	18263	Brady D E	24561	and Horticultu-	
Ble G J van der	24800	Blondelle R	23487	Bor N L	18264	Brager-Larsen	21705	ral Research	
Bieber H	23596	Blondelle R	25050	Bor N L	18265	O		Station	
Biebl R	18763	Blood D C	21429	Borde F de la	21044	Brahe-Pedersen	24743	British Colom-	18176
Biederman H	21245	Bloodworth M E	20102	Bordoux J	22091	O		bia University	
Biehler J H	25557	Blosser R H	25303	Boreland A A	23731	Brakman P J	22605	Botanic Garden	
Bielefeldt J	21910	Blount C L	19002	Borey F	23778	Braley R D	24491	British Stand-	23290
Bienvenu B	25794	Blow W L	21830	Borg H ter	21432	Branas J	19410	ards Institution	
Biermann H	25168	Blow W L	21922	Borg R	20680	Branas J	19411	British Sugar	23019
Bigger B W	21632	Blume J M	18766	Borger C	21273	Branas J	20100	Corporation	
Bilstad N M	22873	Blumfeldt H	24010	Borghese S	25428	Brand J H	25732	Briwa K E	24616
Bilz A	23597	Boaga G	25492	Borgman H H	19289	Brandenburg E	18918	Briwa K E	25783
Bingefors S	18607	Boal R S	25304	Borgman H H	20099	Brandt J	23489	Broadbent D	18644
Bingley L T	19499	Boals G P	25730	Borinquin	25831	Brandt J	25291	Broadbent D A	24494
Binns W	21326	Boan J	19502	Segundo O de		Brandt J	25559	Broadbent L	18580
Biocca E	21699	Bobbitt R M	25531	Borisoglebski	19290	Brann V H	23234	Brock F D	23961
Bird H R	21867	Bobby F C	24742	A D		Brannaman B L	18798	Brock R B	19414
Bird J	19073	Bocanegra M	25797	Borisov V A	19743	Brannan C F	18175	Brock R B	19415
Bird R D	22601	Bocanegra	18972	Borlaug N E	18973	Brannan C F	25560	Brock W E	22235
Birichevskaja	20568	Salazar S		Born S	24801	Branson N	25561	Brockmann H	18177
L P		Bock E	19407	Born S	18266	Bratzler L J	24492	Brodie F A	25735
Birkenfeld	20804	Bodwell J H	23018	Boros A	21467	Braun H	18389	Brody C L	23823
Birnie-Visscher	25729	Bodwell J H	23072	Bortree A L	21467	Braun O	18389	Broekhuis E	25122
F C E		Boehl V	23730	Boruff C S	24374	Braun O	19079	Broerse J	24225
Birre A	20034	Boelcke O	19075	Borum C J	24349	Braun O	19885	Broerse J	24225
Bisal F	20328	Boerenbond	25674	Borzoni G	21116	Braun O	19886	Broggi A	24007
Biset	23822	Belge		Bose S R	25170	Brauns A	22300	Brughstad O O	22101
Bishop C T	20944	Boesel M W	19503	Bosian G	19408	Bravyi Z	24014	Brooklyn Bot-	18178
Bishop L R	23598	Bogdansk L	24206	Bosian G	23113	Bray R W	24493	anic Garden	
Bishop S A	20774	Boggs L C	21997	Bosman F H	19077	Brazil Instituto	21248	Brookman B	22771
Bishopp F C	22297	Bogusaert O	23498	Bossaert O	23498	de Zootechnia		Brooks C J	22877
Bissell T L	18554	Bostian C H	21830	Bostian C H	21830	Brazil Instituto	21275	Brooks O L	20101
Biswell H H	19074	Bosticco A	21435	Bosticco A	21435	de Zootechnia		Brooks W W	23366
Bitters W P	18764	Bostwick R D	19078	Bostwick R D	19078	Brazil Serv de	25733	Brose C P	21438
Bivins J A	21911	Botelho	24448	Botelho	24448	Estatistica		Brough C R	18768
Bjerkhög K	24861	Quimico L B		Quimico L B		Económica e		Broughton A	20415
Black D	23231	Bottomley A G	25731	Bottomley A G	25731	Financelra		Broughton A	21439
Black L M	18578	Bottoroff C	21915	Bottoroff C	21915	Brazil Serv de	25734	Brouhns G	19887
Black M B	25798	Boucher H	22187	Boucher H	22187	Estatistica		Brown A C	18581
Black R H	22769	Boudy P	18174	Boudy P	18174	Económica e		Brown B	21568
Black W E	24279	Bouheller R	19744	Bouheller R	19744	Financelra		Brown B A	20254
Black W H	21563	Bouillenne R	18643	Bouillenne R	18643	Breakiron P L	24224	Brown C	25305
Blackaller V A	22298	Bouillenne-Wal-	18643	Bouillenne-Wal-	18643	Breakwell E J	24655	Brown F E	24015
Blackburn B	19500	rand M		rand M		Brecht W	20945	Brown F M	22893
Blackley S R	24490	Bould C	20064	Bould C	20064	Breeck L L	21567	Brown G W S	25493
Blackman G E	18930	Bouley	21175	Bouley	21175	Bregante L J	21437	Brown H D	19247
Blackwell H G	19501	Bouley G	21788	Bouley G	21788	Breidbach J	19412	Brown J	25033
Blackwell H L	21996	Boulton E H B	22299	Boulton E H B	22299	Breider	19413	Brown J A	21960
Blackwell H L	23232	Boulton E H B	22603	Boulton E H B	22603	Breirem K	21045	Brown J G	18769
Blair D S	19406	Bourgin P	22604	Bourgin P	22604	Breirem K	21362	Brown L	25011
Blair G B	25302	Bourlet G	24654	Bourlet G	24654	Brekke J	24293	Brown R	18644
Blair G Y	18765	Bourne E J	23392	Bourne E J	23392	Bremer A H	19745	Brown R L	19109
Blair I D	18534	Bourne R F	21117	Bourne R F	21117	Bremer A H	19746	Brown W L Jr	22837
Blair R J	24928	Boursin C	22875	Boursin C	22875	Bremner J	21274	Browne G	25173
Blaise R E	24285	Bouruet-	20438	Bouruet-	20438	Bremner J M	19965	Brownell F G	23896
		Aubertot J		Aubertot J		Brenan J P M	18267	Bru	21664
		Bonato C	25169	Bonato C	25169	Bremridge P	25171	Brücher H	18976
		Bonazzi A	19964	Bonazzi A	19964				



Item	Item	Item	Item	Item
Brückner E 20646	Burks C 23147	Call A H 19340	Capdevielle A 22766	Carvalhoes J 22276
Brueckner A L 21825	Burleson C A 20102	Callaghan A R 20113	Capen J 19511	Carvalho A 18303
Brueckner A L 21973	Burlison W L 23435	Callow H J 24018	Capinpin J M 18978	Carvalho A 18692
Bruen J 23322	Burmann K 22879	Calma V C 19210	Capstick E 23734	Carvalho A 18777
Brüggemann K 21119	Burnett D Jr 22606	Calma V C 19211	Capucci C 19417	Carvalho A 19898
Brugman H H 22191	Burns D J 21569	Calville R 24744	Caracas Institu- 25785	Carvalho F G 19343
Brugman H H 22216	Burns K F 22228	Calzada B J 19751	to Nacional de 25737	Carvalho e 18979
Bruin P 19938	Burns P Y 20617	Cámara Oficial 25737	Nutrición	Vasconcellos
Brune G M 20340	Burr G O 18772	Sindical Agraria 25737	de	J de
Brunerie G 20775	Burrell J H 21048	lona de Barcelo- 25737	Carazo A M 19835	Carvalho e 19899
Bruning P 21762	Burroughs W 21049	lona	Carbonaro M 23185	Vasconcellos
Brunnberg M 18917	Burrows W D 19095	Camargo L de S 19752	Carboueres M 24649	J de
Brunner E 19416	Burshtefn M 19367	Camargo R de 20105	Cárdenas R F 18713	Carver J E 20571
Brunner J R 23907	Burt J E Jr 20735	Camerman C 19968	Cardeñosa 18392	Casa Pacheco
Brunninghausen 25735	Burte H M 24017	Cameron A E 18582	Barriga R 18393	Marqués de
H	Burtis E L 24656	Camp B 25561	Cardeñosa 18393	Casa Pacheco
Brush W D 20570	Burtis E L 24657	Camp B 25563	Barriga R 18394	Marqués de
Bruto F R 19833	Burton G L 24976	Campacci C A 18477	Cardeñosa 18394	Casa Pacheco
Bruun-Møller 19426	Burton G W 20103	Campanile P F 23376	Barriga R 24168	Marqués de
P	Burton W J 20877	Campbell A J 24375	Cardonne P 23148	Casalini M 25565
Bruyere A 21514	Burton Rodrí- 24496	Campbell B 21441	Cardwell A P 23148	Casares Bes- 24658
Bryan C S 18269	guez G	Campbell D 21442	Caré E 22607	gansa R
Bryant C B A 23733	Burt B L 18271	Campbell L 19753	Caré E 22607	Casarosa L 21918
Bryant H E 25174	Burt E 21121	Campbell L 19754	Carena A 22301	Casciani F 20949
Bryant L H 20980	Burt R M 21615	Campbell L 19759	Carey C J 25966	Cascón J 20416
Bryant R L 21897	Burvill G H 20104	Campbell L 19790	Caribbean Com- 25966	Casey J 18180
Bryce D H 24479	Burvill G H 20753	Campbell L 19791	mission	Cashmore W H 23022
Bryce D L 24479	Bush R 18179	Campbell L 19816	Central Secre- 25966	Casparé H E 25180
Bryner C S 18977	Bush R 18476	Campbell R A 20625	tariat	Caspari C 18272
Bryson J R 25175	Bush R 19966	Campbell R B 18765	Research Br	Cassamagnaghi 21768
Bublitz K 25906	Bushnell J 19750	Campbell R B 19944	Carillo A F 18794	A
Buchanan E B 25907	Bushnell J 20255	Campbell R M 20639	Carizra R A 22172	Cassamagnaghi 21768
Buchanan M L 22112	Buss W 21440	Campell E 20593	Carleton M 19875	A (hijo)
Buchanan M L 25273	Busse von 24589	Campan von 23301	Carlevaro Cas- 24617	Cassamagnaghi 22229
Buchholtz K P 23170	Bustamante J 25177	Campleman G 25495	tellá C H	A (hijo)
Bück G 21916	de	Campos A C 23236	Carlone R 18776	Cassamagnaghi 22542
Buckmaster 18922	Bustamante 20400	Campredon J 20861	Carlsoni M 22980	A (hijo)
R W	Amlr L	Canada Agricul- 23490	Carlson J W 19081	Cassandro P E 25385
Buckner C R 21528	Buswell C E 24286	tural Prices	Carlström B 21443	Cassidy H P 20257
Budetta P 22978	Butani D K 22447	Support Board	Carlton R M 20065	Cassin J 24204
Budge D 24016	Butefisch E G 23021	Canada Bur of 20948	Carmona R 24929	Castellá Bertrán 21124
Budowski P 25838	Butijn J 18773	Statistics	Carmona R 24930	E
Bueno P 21120	Butijn J 19967	Canada Bur of 20401	Carneiro V 21123	Castellarnau 22302
Bueno P 24588	Butler B E 20045	Statistics	Carnes N K 24499	I S de
Buess O 25176	Butler C G 22448	Dept of Trade 20401	Caroline M 18395	Caster C A 25052
Buflod A H 20946	Butler C G 22449	and Commerce 20401	Carpenter A 22881	Castilla D de 19232
Buhl C 18390	Butler E 19080	Canada Dept of 19406	Carpenter A W 21998	Castilla D de 20107
Bujan J 23315	Butler F C 18391	Agriculture	Carpenter C C 20009	Castillo A J B 19100
Buljan M 18770	Butler J B 25391	Canada Dept of 24166	Carpenter D J 21999	Castillo C F 18685
Buljan M 18771	Butler O D Jr 24497	Agriculture	Carpenter D J 22000	Castle W E 21032
Bull H 20681	Butler T B 19508	Fruit and Vege- 24166	Carpenter I W 20647	Castle W E 21728
Bull S 24495	Butterfield H M 19509	table Products 24166	Carpenter J 23908	Castro G A 19044
Bullis K L 21985	Button D J 21276	Research Com- 24166	Carpenter M 22001	Castro G P 19045
Bullis K L 23235	Buxton A 21679	mittee	Carpenter R D 20840	Castro 25181
Bullock R M 19314	Buxton B R 19510	Canada Dept of 19834	Carpenter R S 24745	Silva J M
Bundel' A A 18930	Buxtorf A 23869	Agriculture	Carpenter R S 24745	Castro y 21277
Bunting A H 19198	Buyas A C 24829	Information	Carpio Chiri P 24203	Ramírez R de
Bunau V G 24862	Buykes D 22198	Serv 24829	Carr A K 21444	Catambay A B 23023
Buonaluto G 25562	Buzinov I A 21710	Canada Dept of 21122	Carra P 19512	Catani R A 19970
Burakov I A N 19748	Buzzard C N 22838	Agriculture	Carrigan R A 19969	Catani R A 19971
Burch D W 25084	Byerly T C 21246	Veterinary	Carrillo de 21445	Catani R A 20131
Burch D W 25085	Bynov F A 18774	Director	Albornoz Lubián 21445	Cater R C 18273
Burch E C 23020	Byrd B B 19368	General	J	Cathcart R B 24500
Burford A R 20329	Byrkjeland J 25494	Canada Grain 24366	Carrion P 23601	Cathcart W H 24287
Burger F W 20445	Cáceres Díaz F 23599	Research 24366	Carrion P 23602	Catron D V 22199
Burgess R 21869	Cáceres Díaz F 25178	Laboratory 24376	Carse G M D 22263	Catron D V 22220
Burgestad F 20947	Cahill V R 24498	Canada Grain 24376	Carse G M D 23073	Cattelain M 24931
Burgos J J 25958	Caine G B 21326	Research 24376	Carse G M D 23073	Cauchy L 21805
Burgtorf C 20734	Calavo Growers 24227	Laboratory 24376	Carsner E 18633	Caul J F 24288
Burgwald L H 23773	of California 24227	Canals A M 25831	Carson B L 21811	Causey N B 22543
Burk M C 23375	Calderón J S M 20330	Cancellara E 20256	Carson B L 21912	Causey N B 22544
Burke J D 21046	Caldewell W A 23475	Candioli P 25733	Carter A R 22608	Cauwenbergh 19291
Burke J H 24226	Caldwell J S 22792	Cangliulli A 25564	Carter D 23999	E van
Burke K A 21917	California Crop 23952	Canham A S 22586	Carter D G 23237	Cavazza L 18947
Burkert E 20839	and Livestock 23952	Cannon P R 25784	Carter F 25051	Cavina R 23442
Burkert G M 24390	Reporting Serv 23952	Cano A E 22188	Carter J M 20106	Cayre H 24863
Burkey L A 21528	California Dept 23952	Cano A E 22189	Carter R E 25179	Ceccarelli A 22147
Burkhart E J 23316	of Agriculture 23952	Cano J M 19044	Carter R H 23881	Celis H 22772
Burkhart L 19749	California Seed 24830	Cano J M 19199	Carter R M 20862	Celorico 20682
Burkholder C L 24258	Potato Certifi- 24830	Cansteln 23600	Carter Mrs 19513	Martínez A
Burkill I H 18270	cation Serv	Freiherr von 25739	S T Jr	Centola G 24020
Burkitt W H 21047		Freiherr von 25739	Carvalhoes A R 19514	Centola G 24021
				Centola G 24022







Item	Item	Item	Item	Item
Craig L C 22065	Cupps P T 21131	Daunoy H L 20117	Delperee R 23028	Dickinson F E 21021
Craig T 19527	Curcio M 20115	Dautov R K 19972	Delperee R 23367	Dickinson H 22310
Cramois A 24986	Curculo 22306	Davalos M 25056	Delphey C C 19347	Dickinson O 23618
Crane M B 18183	Curfs P 19533	Davey A D 24748	Del Valle C G 19038	Dickinson R 24668
Cravens W W 21870	Curtis C H 19891	Davey F 23912	Delvaux E L 22308	Dickson W E 25910
Cravens W W 21871	Curtis V A 24380	David M 25790	Delver P 18789	Dickson G E 23776
Cravioto J 25794	Cury R 22454	David R C 25677	Dement'ev P I 20704	Dickson J T 23871
Crawford A 23137	Cury R 22455	Davidson H R 19088	Demnitz A 21923	Dickson N 21391
Crawford A 25869	Cutak L 19534	Davidson H R 22264	Demnitz A 22230	Dickson R C 22613
Creighton J W 20963	Cutler C J 21617	Davidson R W 18365	Demoll R 21247	Diégués Júnior 24870
Cremer H D 25834	Cutter V M Jr 18923	Davidson W L 24803	Demolon 20012	M 23619
Creuzot 24416	Cuttle D 20263	Davies D M 21928	DeMuth H 23302	Diel J 25089
Criddle W D 20252	Cutts N A 22456	Davies J L 23443	Denamur R 21134	Diema W 24384
Cripe R W 25086	Cuya M R 24169	Davies V 25991	Dencker 25909	Diernhofer K 21448
Crisler O S 22234	Cuzin J 18596	Davies W 19089	Deniel J 23919	Diesslin H G 25007
Cristi G A 21635	Cuzin J 18651	Davin J A 22007	Denison F W Jr 18801	Diesslin H G 25189
Cristi G A 21636	Cuzin J 18900	Davis G R 21771	Denmark Land- 23029	Dieterich V 20479
Cristi G A 21637	Cuzin J 19245	Davis J E 24749	Denmark Land- 25126	Dietrich I W 21832
Cristi G A 22702	Czarev J 23964	Davis J F 20118	Denmark Land- 25126	Dietrich L S 21959
Criswell J 23138	Czepek E 20878	Davis J G 23774	Denmark Land- 25126	Dietz A T 22092
Crivellari D 20970	Daams J 18364	Davis J H 19893	Denmark Land- 25126	Digaud A 25848
Croce F M 19345	Dacanay B R 23349	Davis J H 25005	Denmark Land- 25126	Dijk B van 25451
Croce F M 24291	Dachtler W C 24381	Davis J J 22978	Denmark Land- 25126	Dijk L van 25573
Croce F M 24292	DaCosta J 20068	Davis L H 20478	Denmark Land- 25126	Dijkstra N D 21053
Crocker Mrs E S 19528	Dahlberg A C 23870	Davis M B 25745	Denmark Land- 25126	Diller J 20119
Crocket R M 19529	Dahlberg H W 24866	Davis M R 19250	Denmark Land- 25126	Diller O D 18399
Crofts W J 24030	Dahle C D 23910	Davis P C 20879	Denmark Land- 25126	Diller O D 20816
Croker T C 20618	Dahlgren E 25744	Davis W D 25515	Denmark Land- 25126	Dillistone F 25791
Cromer C A 23187	Dahlmans H 19294	Davis W D 25516	Denmark Land- 25126	Dillon M 19091
Crook H C 19530	Daigle J 25568	Davis W S 20737	Denmark Land- 25126	Dillon M 25310
Crook P 20009	Dairymen's 23827	Davidson D N 22131	Denmark Land- 25126	Dillon T 18933
Crook S R 19531	League Coop- 23827	Dawson J R 24339	Denmark Land- 25126	Dimitri M J 18278
Cross A S 21279	erative Asso- 23827	Dawson H A 25452	Denmark Land- 25126	Dimmick T B 23445
Crossley A 24663	ciation 23827	Dawson E Y 18350	Denmark Land- 25126	Dinelli D 22311
Croston C B 24031	Dakan E L 22906	Dawson T R 24804	Denmark Land- 25126	Dinsmore J R 21638
Crouse E F 25087	Daley Sir A 23911	Dawson W O 24620	Denmark Land- 25126	Dinsson W F 21054
Crowe G B 20385	Dalgety and Co 24034	Day B 24503	Denmark Land- 25126	Dion W M 18924
Crowe G B 23025	Dall W B 24035	Day C 21364	Denmark Land- 25126	Dirsh V M 22946
Crowell R M 22552	Dalling T 21446	Day D I 21280	Denmark Land- 25126	Divelec G P le 23000
Crowther R A 22610	Dalmasso G 19418	Day G H 25746	Denmark Land- 25126	Dix W 19419
Crowther D S 19370	Dalmasso G 23026	Day W R 18398	Denmark Land- 25126	Dixon H F 20917
Cruess W V 24228	Dalmasso G 23614	Day W R 20648	Denmark Land- 25126	Dobert 21366
Cruess W V 24293	Dalmasso G 23615	Dean L A 18931	Denmark Land- 25126	Dobkins D A 18793
Cruikshank J W 18413	Dalmeyer 22307	Dearstyne R S 21830	Denmark Land- 25126	Docters Van 22885
Cruise M 19532	W H M 22307	Deas D W 21297	Denmark Land- 25126	Leeuwen W M 25386
Crummett D O 20114	Dalrymple A J 23897	DeBeukelaer 24621	Denmark Land- 25126	Dodanis D 25386
Cruz E E 24032	Dame 18786	F L 24621	Denmark Land- 25126	Dodd N E 23377
Cruz S R 20372	Dammerman 22611	Debuch H 23405	Denmark Land- 25126	Dodd N E 25948
Cruz S R 24379	K W 22612	Deckbar F A Jr 24666	Denmark Land- 25126	Dodge W W 24422
Cruz Llanos 23611	Dammerman 22612	Decker C W 23775	Denmark Land- 25126	Dodson L A 23302
R de la 23612	K W 22612	Decker D 19536	Denmark Land- 25126	Doerr A 24385
Cruz Llanos 23612	Dangeard P 18349	Deckwer N 22148	Denmark Land- 25126	Doetsch J F 20120
R de la 23612	Danielson I S 21132	Decossas K M 24666	Denmark Land- 25126	Dogadkin B 24806
Cruz R C 23613	Danilov M D 18787	Decoussemaker 23811	Denmark Land- 25126	Dohner D M 23872
Csáky T Z 21905	Dansk Hedesel- 25869	W 23811	Denmark Land- 25126	Dohogne A 24558
Csehily G 20262	skab 25869	Deemter J J 20265	Denmark Land- 25126	Dohr A W 21017
Cuatrecasas J 18277	Dantwala M L 25186	Deen J L 20465	Denmark Land- 25126	Döhring E 22312
Cuba P 24033	Dantwala M L 25187	Deering A L 25570	Denmark Land- 25126	Doig M M 19537
Cuba Económica 24868	Dantwala M L 25451	Deering F J 20383	Denmark Land- 25126	Dolgov S I 19945
y Financiera 24868	Danvig A M 19535	Defries C H 23444	Denmark Land- 25126	Dollaniti E 18184
Cuenca C L de 21130	Danvig A M 19758	Degler R H 20539	Denmark Land- 25126	Doll E R 21797
Cuenot G 24350	Danvig A M 25758	De Havilland 22984	Denmark Land- 25126	Doll G B 20738
Culbertson C C 21363	Danzel L 19892	Sir G 23616	Denmark Land- 25126	Domac R 18279
Culbertson C C 22220	Darby W 25789	Deibner L 23616	Denmark Land- 25126	Domac R 18280
Cullar J 23098	Darcel C L 21920	Deitemeyer C 21365	Denmark Land- 25126	Domac R 18646
Culshaw J C 18249	Darden G 25341	Deitemeyer C 21576	Denmark Land- 25126	Domantay F S 23139
Cumming A R 22453	Darling E M 25563	De Kock G 21133	Denmark Land- 25126	Domato J 19348
Cummins G B 18363	Darling G W 23808	Delaplane J F 21973	Denmark Land- 25126	Domenichini G 22327
Cunha J F 19890	Darling R J 20116	De la Warr 21577	Denmark Land- 25126	Domingues O 21248
Cunha T J 22201	Darlot 20264	Earl 21577	Denmark Land- 25126	Domingues O 21872
Cunha T J 22203	Darraha L B 24747	Delbrück M 18574	Denmark Land- 25126	Dominican Re- 23620
Cunningham 24266	Darraspen E 21770	Deleau J 24382	Denmark Land- 25126	public Comisión 23620
C E 24266	Das D B 24036	Delgado Romero 24383	Denmark Land- 25126	de Defensa del 23620
Cunningham G 23188	Date Growers' 19346	Dellenbach P 23027	Denmark Land- 25126	Café y del Ca- 23620
Cunningham J B 25450	Institute 19346	Dellinger G 25453	Denmark Land- 25126	cacao 23620
Cunningham K G 18922	Daubenmire F R 18788	Deloney J E 25571	Denmark Land- 25126	Dominican Re- 23620
Cunningham L C 23963	Daubert B F 24664	DeLong D M 22820	Denmark Land- 25126	public Secre- 23620
Cunningham R N 20546	Daubert B F 24665	De Louise W J 21447	Denmark Land- 25126	taria de Estado 23620
	Daugherty J W 21921	Delperee R 22457	Denmark Land- 25126	de Economía 23620
			Denmark Land- 25126	Nacional 23620
			Denmark Land- 25126	Dominick B A 24257
			Denmark Land- 25126	Jr 24257



Item	Item	Item	Item	Item
Dominik T 18619	Dude 23476	Edwards H M 22203	Emrich 23099	Ewing E C 24041
Dominik T 18620	Dudka S L 18948	Edwards J 21578	Emsweller S L 19544	Ewing J T 22459
Donahue R L 25341	Dudley A 23240	Edwards J 21579	Enciso C T 18480	Ewing J T 22941
Donaldson R D 20376	Dudley L B 19632	Edwards J P 20503	Endo J 24466	Exley Mrs F M 19546
Doneth J C 24997	Duewell H 22797	Edwardson J 22233	Ene de Piro M 19545	Eyres H T 18187
Doneth J C 25426	Du Fournet R 25968	Ege E 19841	Engel C 23967	Eyster H C 18799
Donisthorpe H 22940	Dugelay A 20572	Eggers G 21450	Engelhard J 23100	Eyster W H 19421
Donovan J M Jr 23317	Duigan S L 18181	Eggert F P 19295	Engelmann 21973	Eyster W H 19547
Doorenbos J 19251	Dulaney E L 18796	Ehlers P L 18984	Engelmann L 21580	Eyster W H 19760
Doran C W 19092	Duley F L 20030	Ehrenberg L 18917	England G 21718	Eyster W H 20010
Doran C W 19939	Duly S J 24387	Ehrenberg P 25970	Englehorn V 25519	Ezurra J C 21056
Döring H 21595	Dumais R 23779	Ehrle L 19252	Englert 19296	Ezell B D 24323
Dormal S 22313	Dumas P 18400	Ehrle L 24831	Englund E 20124	
Dormal S 22314	Dumelge A 24388	Ehrlich J 21281	Englund E 20335	
Dorofoev P I 18185	Dumont L 22317	Ehrmantraut 18921	En'kova E I 18622	Fabbri A 25059
Dorsey R N 24171	Dumont C G 20880	H C 20595	Enkvist T 21000	Fabricius H 25192
Dorst H E 22315	Duncan C W 23423	Ehwalde E 24874	Enomoto M 23242	Faddoul G P 21927
Dossin C O 24750	Duncan J E 23241	Eichert C 24935	Ensminger M E 19097	Fagan R 21139
Dössing P 25127	Duncan O D 25534	Eichinger J 22703	Ensminger M E 21063	Fahmy T 20125
Doty W 25678	Duncan R E 18649	Eichler W 21451	Ensminger M E 22191	Fahringer F 23033
Doty W L 19228	Duncan R L 23820	Eieland E 25190	Ensminger M E 22204	Fairbanks D 25575
Doughty R H 23777	Duncan W H 18250	Einarsson P 19312	Enzle F D 22704	Fairchild G B 22705
Douglas L H 19093	Dunham R S 18744	Eino Kenkyu Kai 23820	Ephrussi B 18186	Fairley E H 19548
Douglas L H 20069	Dunkelberger P C 25574	Einset O 24752	Ephrussi B 21786	Faithful W 22176
Doutt R L 22622	Dunkle M B 18621	Eisaman H G 24297	Epstein B 23325	Faiz R 21453
Dow F 19538	Dunn M S 25846	Eisner K 21452	Erbacher W 23350	Fajon B 24273
Downes J A 22316	Dunn R C 22130	Eisenhardt N H 24832	Erbacher W 25430	Falcone M A 24042
Downham K D 21367	Dunne T C 20112	Ekander R 20824	Ercilla J de 18797	Falconer J I 23491
Downing C G E 23239	Dunton H L 20390	Eksaa O 23303	Erdmann K 18798	Falconer J I 25193
Downing M H 18377	Dupaigne P 24206	Ekstrand H 18402	Erickson L C 25129	Faldi G 22706
Downing O L 21731	Dupas 21772	El Salvador Di-rección Gene-ral de Estadística 25747	Ericson F L 24390	Fallis A M 21928
Downs W G 22772	Du Plessis 25042		Erman fū 24039	Fallot 19400
Dowson W J 18562	C van H 25312		Ernst W 22121	Falque X 25315
Doyle L P 19861	Du Plessis S J 18401		Errico P d' 20480	Famularo N 25395
Doyle L P 22231	Dupont L 23190	Elder C 22234	Errington B J 21732	Fangau R 21874
Doyle L P 22232	Durbin C 22150	Elders A T 24389	Escalante M 24807	Fankhauser F 22614
Drager K 22230	Durmishidze S V 23622	Eleazer J M 20121		Fanning J W 25316
Dragunov E D 20711	Duthil J 24296	Elgueta M 18695		Fanning R J 24826
Drahn F 21136	Dutta A 24833	Elgueta M 25971	Eshbach C E 23446	Fantini O 25455
Drake C J 22796	Duvald 19812	Elia G d' 23349	Eskeal H W 21581	Fardy A 18651
Drangeld O 20649	Duvall A 24873	Ellason E J 20705	Eskew R K 24297	Fardy A 18800
Drechsler C 18368	Duvigneaud P 18281	Elkington W M 25394	Eskew R K 24932	Faria R de 21690
Drechsler C 18647	Duzzi A 24719	Ellenwood C W 19372	Esplin A C 24040	Farkas G L 18676
Dreier A F 18984	Dvoracek D C 23538	Ellerton S 19212	Esplin A C 22104	Farmar H 18188
Dreier W H 25678	Dykstra R R 22151	Ellett D 23966	Estes J A 21773	Farmer R M 20627
Drelling F R 18429	Dyrendahl S 21370	Ellickson J C 25057	Estrada E 21137	Farmer V C 23396
Drenner W E 24504	Dysart N M 23738	Ellington F B 25058	Ethchells J L 18481	Farmer and Stock-Breeder 25317
Drew F 23517		Elliott C 19541	Etherington M G 21818	Farrar L D 21371
Drew K M 18352		Elliott E 22173	Etienne A D 23624	Farrington R L 25008
Dreyfuss M L 22332		Elliott E A 22103	Ettien I E 22174	Farrington R L 25680
Drieux H 21530	Eads F E 21634	Elliott J A 24505	Eue H 19253	Farstad C W 22842
Drieux H 21765	Eads F E 21639	Ellis C K 19542	Euzéby J 21138	Farswell E D 24506
Driftmier R H 23297	Eakin W E 23228	Ellis C K 19543	Evans C D 24031	Fasseaux W 18283
Drinkwater G H 19539	Earland C 23999	Ellis F E 25679	Evans C F 20624	Fasseaux W 18284
Drinkwater W 24295	Earley D 25392	Ellis H W 21282	Evans D H 23031	Fausel W 24875
Drisch M 24038	Earnshaw C 22066	Ellis L S 25314	Evans F C 22980	Fausel W 24875
Drosan 21925	Easterbrook L F 19840	Ellis N R 21246	Evans G L B 22175	Fausel W 24875
Droste H H 23518	Eastwood R A 25393	Ellis T O 19094	Evans J D D 20481	Fausel W 24875
Dru R 23778	Eberly N M 25313	Ellis T O 19095	Evans L S 19842	Fausel W 24875
Druce P C 24229	Ebert F A 20856	Ellis T O 19349	Evans L S 19843	Fausel W 24875
Drummond M C 25788	Ebine H 24429	Ellis T O 20122	Evans R H 23191	Fausel W 24875
Drummond S 20855	Echeverria I 19075	Elman R 25792	Evans R J 23423	Fausel W 24875
Drury A R 21449	Echeverria J 24751	Elman R 19894	Evans S 24391	Fausel W 24875
Duarte R E 18794	Eckert E A 21905	Elvehjem C A 21055	Statistical Serv 23914	Fausel W 24875
Dubled R 23621	Eckert J E 22458	Elvehjem C A 21709	Evaporated Milk Association Chicago 23914	Fausel W 24875
Dubois 24871	Ecoffard 23519	Elvehjem C A 21959		Fausel W 24875
Dubouloz P 25835	Ecuador Estación Experimental Agrícola 25969	Elwood E M 25090		Fausel W 24875
Dubourg J 24872		Elwood E M 25426		Fausel W 24875
Dubovik J A F 18795		Ely R E 23881		Fausel W 24875
Duchaigne A 18648		Emberger L 18650		Fausel W 24875
Du Chanois F R 22393	Edberg S 24481	Emden J H van 18895		Fausel W 24875
Du Charmé E P 18560	Eddy R T 19632	Emerson A W 20227		Fausel W 24875
Duchaufour P 20046	Edel'man N M 22279	Emerson A W 20334		Fausel W 24875
Duck R W 21368	Eden C A M 19540	Emilsson B 19759		Fausel W 24875
Duck R W 21369	Edén J 20594	Emilsson B 20123		Fausel W 24875
Duck R W 24622	Edgar G 21926	Emmel L 22318		Fausel W 24875
Duckham A N 25311	Edmunds G F Jr 22979	Emmer V 20391		Fausel W 24875
Du Courtail A 18985	Edsall R L 25718	Emmerling W 23623		Fausel W 24875
Du Courtail A 24386	Edwards E D 22202	Emon J 19420		Fausel W 24875
Ducurtail F 22132				Fausel W 24875



Item	Item	Item	Item	Item
Fenton R H 20982	Fitzpatrick M J 21140	Food and Agri- 25816	Fraser S 24174	Gainer J M 23660
Ferguson J 21372	Fixmer F N 20683	culture Organi- 25816	Frazão J V 21143	Gaines J C 22989
Ferguson J H A 20650	Fixmer F N 20684	zation of the 25816	Frazier J W 20418	Gaines J P 20385
Ferguson L C 21454	Fjeldalen J 22321	United Nations 25816	Frear D E H 22326	Gaines R W 24049
Fernald M L 18286	Flab L 19550	Food and Agri- 18987	Frederiksen 21373	Gairaud L L 25523
Fernandes J S 23812	Flanders S E 22843	culture Organi- 18987	A M 21373	Gaivoronskii 22460
Fernandes S 23928	Flawn L 19761	zation of the 18987	Frederiksen P S 18803	I M 22460
Fernández H 22008	Fleck A 20384	United Nations 20486	Freeman E E 25060	Galgan M W 19097
Fernández J A 22947	Fleischer H O 21018	Agriculture Div 20486	Freeman H A 22988	Galgano E 25200
Fernández 22319	Flentje N T 18404	Plant Industry 20486	Freeman R B 22980	Galinat W C 19763
Dávila J G 21583	Fletcher H B 24568	Br 20486	Freeman T N 22282	Galinat W C 19764
Fernández 21583	Fletcher P W 20047	Food and Agri- 20486	Freese F Jr 20685	Gallaher B 22235
Quintanilla C 21283	Flewelling B 24173	cultural Or- 20486	Freitas H de 23326	Gallego M F L 22890
Fernandez 21283	Flint O S 21985	ganization of the 20486	Freitas Biglieri J de 21144	Gállego Pied- 21931
Salcedo L 18587	Flint W E 24594	United Nations 20486	French H W 24613	rafitia J 21459
Fernandez 18587	Floch H 22708	Secretariat 20486	French M H 24508	Gallier L 23813
Vallera M V 25577	Floch H 22709	Food and Agri- 20486	French O C 23327	Gallina L 21775
Fernando C H 25577	Floch H 22773	cultural Or- 20486	Frenzel H 21004	Galloni G 25061
Fernie L M 19896	Florea J H 24753	ganization of the 20486	Freppaz C 21145	Gallwitz 23171
Fernon, B J 24642	Florin H 25992	United Nations 20486	Fretz J W 25575	Galvão M F J 24879
Ferrand 20126	Florio R 23465	Secretariat 20486	Freude H 22616	Gamble W K 25579
Ferrando H 22542	Floyd E H 22322	Food and Agri- 20486	Freudenberg H 21929	Ganière M 24978
Ferrando R 21937	Floyd E H 22886	cultural Or- 20486	Freudenberg K 21001	Gans J 22716
Ferrara A 24670	Flygare 23628	ganization of the 20486	Frew R A 23622	Gans J 22716
Ferrari P V 24671	Flynn T P 19551	United Nations 20486	Frey W 23392	Gantes H 18353
Ferrero 24043	Focan A 18483	Nations 20486	Frey-Wyssling 24042	Gapen K 20998
Ferru M 25196	Focarile C 25949	Secretariat 20486	A 24042	Gapen K 23434
Fesneau M 24672	Fogg H G W 19785	Food and Agri- 20486	Freyer E 24676	Gapen K 24611
Festa- 25197	Fohrman M H 21528	cultural Or- 20486	Frézal P 19422	Gapen K M 25285
Campanile P 22152	Foldager G 20377	ganization of the 20486	Frieburg W 21389	Garber R J 19173
Fethers G 22153	Foley R J 21641	United Nations 20486	Friedfeld L 22081	Garberg E 21288
Fethers G 22153	Folling B N 21141	Food and Agri- 19000	Friedman 21642	Garberg E 21374
Fetrow W W 24044	Foltin H 22887	cultural Organi- 19000	M H F 21379	Garces O C 18405
Feytaud J 22615	Foltinek H 23194	zation of the 19000	Friend R B 23173	Garces O C 18569
Fidler J C 24172	Folweiler A D 20881	United Nations 20483	Friesen G D von 21249	Garcés O C 18588
Field H J 21177	Fonseca A X da 23195	Food and Agri- 20483	Friesland H van 21833	García Atance J 25431
Fielitz Landivar 21640	Fonseca J P da 22323	cultural Organi- 20483	Frietema H 24977	García de 25397
F 21640	Fontaine V 24872	zation of the 20483	Frisch A 24877	Oteyza L 22010
Fielitz Landivar 22139	Fontana P 22324	United Nations 20483	Frischknecht 21379	García de Pare- 22010
F 22139	Fontana P 22325	Food and Agri- 20483	NC 25129	des A B 19899
Fiennes R N 21455	Fontana P 22706	cultural Organi- 20483	Fritschl M 25129	B F 21289
T W 20482	Fontana P 22147	zation of the 20483	Fritz E 20552	García-Fierro 21289
Fiji Dept of 20482	Fontanelli E 18987	United Nations 20483	Fritz J C 21875	B F 24444
Forestry 20482	Food and Agri- 18987	Food and Agri- 19000	Fritzsche R 19373	M 19976
Filachione E M 23398	Food and Agri- 19000	cultural Organi- 20483	Froehner R 21146	García Garbía 24444
Filles H W 24392	Food and Agri- 19000	zation of the 20483	Fröhlich O 20754	M 19976
Filhes A 24673	Food and Agri- 19000	United Nations 20483	Froideville C M 19118	García 19976
Filippov D I 19897	Food and Agri- 19000	Food and Agri- 20483	de 19118	Guillintia M J 20431
Fillmore R H 19255	Food and Agri- 19000	cultural Organi- 20483	Fröbier K 18485	García 20431
Fina A L de 25958	Food and Agri- 20483	zation of the 20483	Fromm G 21458	Guillintia M J 24713
Finch T L 20547	Food and Agri- 20483	United Nations 20483	Frona F M 24754	García 24713
Fincher M G 21474	Food and Agri- 20483	Food and Agri- 20483	Frostenson G 25396	Guillenta M J 21148
Fincke H 23397	Food and Agri- 20483	cultural Organi- 20483	Fry H S 24394	García Mata E 21148
Findlay W P K 18482	Food and Agri- 20483	zation of the 20483	Fryholm L 25871	García Vinuesa 22461
Findlen P J 25193	Food and Agri- 20483	United Nations 20483	Fuchs H 20755	Gard W 21584
Fink L 19256	Food and Agri- 20483	Food and Agri- 20483	Fudge J F 20208	Gardner F E 18804
Fink V 19256	Food and Agri- 20483	cultural Organi- 20483	Fudge J F 20402	Gardner K B 25682
Finkel'shtein I 24045	Food and Agri- 20483	zation of the 20483	Fufaeu A 23075	Gardner K B 25683
Finkel'shtein T 24046	Food and Agri- 20483	United Nations 20483	Fujimoto G 19974	Gardner R H 25939
Finn H R 22009	Food and Agri- 20483	Food and Agri- 20483	Fujita Y 25130	Gardner R H 25940
Finnegan J K 22332	Food and Agri- 20483	cultural Organi- 20483	Fukada E 21019	Gareis M 21733
Finnell H H 20336	Food and Agri- 20483	zation of the 20483	Fukaya M 22903	Gar'kin A 20466
Finney D J 20628	Food and Agri- 20483	United Nations 20483	Fuller W H 19975	Garm O 21290
Fiorone F 21618	Food and Agri- 20483	Food and Agri- 20483	Fulscher O 21287	Garman P 23173
Fischer 18403	Food and Agri- 20483	cultural Organi- 20483	Fulton K J 24048	Garmendia E 21776
Fischer F 20671	Food and Agri- 20483	zation of the 20483	Furr J R 20071	Garner F H 24542
Fischer G J 18949	Food and Agri- 20483	United Nations 20483	Furuta T 19553	Garner H V 20419
Fischer H 21783	Food and Agri- 20483	Nations 20483	Furuya H 19762	Garner R J 21466
Fischer H 21784	Food and Agri- 20483	Food and Agri- 20483	Furuya K 19374	Garnett C B 19900
Fischer W 22320	Food and Agri- 20483	cultural Organi- 20483	Fuss E 24878	Garnier M 22891
Fischetti F 24651	Food and Agri- 20483	zation of the 20483	Fussell G E 23034	Garoglio P G 24677
Fishberg A M 22081	Food and Agri- 20483	United Nations 20483	Fussell G E 25913	Garoglio P G 24678
Fishberg E H 22081	Food and Agri- 20483	Food and Agri- 20483	Gaafar S M 21930	Garrott W N 24282
Fisher C E 19096	Food and Agri- 20483	cultural Organi- 20483	Gabrio B W 21774	Garver W G 25201
Fisher C E 19844	Food and Agri- 20483	zation of the 20483	Gactúa L R H 18989	Garwick C 25972
Fisher C E 21396	Food and Agri- 20483	United Nations 20483	Gadd I 24395	Garwood J 25202
Fisher C H 23398	Food and Agri- 20483	Food and Agri- 20483	Gadd J D 21771	Gary L M 19554
Fisher H S 24876	Food and Agri- 20483	cultural Organi- 20483	Gaddi S 25199	Gashkova O A 19297
Fisher O C 22105	Food and Agri- 20483	zation of the 20483	Gahan J B 22772	Gasparetto J 25203
Fisher R S 22707	Food and Agri- 20483	United Nations 20483		Gasparrini M 18990
Fitzgerald O A 21284	Food and Agri- 20483	Food and Agri- 20483		Gassner G 18486
Fitzgerald P M 23193	Food and Agri- 20483	cultural Organi- 20483		
	United Nations 20483	United Nations 20483		



	Item		Item		Item		Item		Item
Gastrock E A	24714	Gil Fortún F	21933	Godwin M R	23432	Gorsler A	24303	Gt Brit Customs	25751
Gaube M J	20778	Gilbert R H	24299	Goessler P	25324	Goss V H	24680	and Excise Dept	
Gaudenzio R	18991	Gilbert-Carter	18190	Goette M B	22390	Gosteli E	19424	Statistical Off	
Gaul	20072	H		Goffart H	18609	Gotlands Läns	25795	Gt Brit Dept of	20921
Gauss R	22617	Gilbey J	21585	Goffinet	21468	Hushållnings-		Scientific and	
Gavrilkevich B	19423	Gilcreast R M	19213	Gogudze V P	24679	sällskap		Industrial Re-	
Gay C W	21461	Giles J E	20267	Goidanich A	22892	Goto R	20926	search	
Gayet J	18905	Giles N H Jr	18908	Goidanich G	18490	Gottlieb F	20841	Forest Products	
Gayford G W	20228	Gill D L	18909	Gökmen N	22844	Gottschalk L C	20340	Research Lab-	
Gaztambide	23630	Gill J B	19003	Goldberg A A	24051	Gottstein J W	20842	oratory	
Arrillaga C		Gillese J P	24881	Goldblith S A	23419	Gould E	22895	Gt Brit Dept of	21015
Gazzera E	19098	Gillies J	23475	Goldkuhl A	25133	Gounelle H	25795	Scientific and	
Geddes H J	23739	Gilling T	23035	Goldsby A I	21934	Goven M	24266	Industrial	
Gee J R Jr	25580	Gillis M B	21876	Goldschmidt	18652	Govers A	21020	Research	
Geers	19257	Gilman W	22011	R B		Govindu H C	18675	Forest prod-	
Geeseman G E	18487	Gilman W	23076	Goldsmith E D	18833	Graber L F	19105	ucts Research	
Gelb I G	24803	Gilmore L E	19234	Goldston G	20048	Graber L F	19170	Laboratory	
Geiger W	21149	Gilmore L O	21518	Gomes A O	25750	Grabherr W	20740	Gt Brit Forestry	18398
Gell L H	23829	Gilmour E F	22619	Gomes P	25433	Grachev E	24085	Commission	
Geisman H M	19099	Giltner L T	21465	Gomez F	25684	Grady M	22893	Gt Brit Forestry	20629
Geiss W	23631	Ginsberg A	22012	Gomez H C	25794	Graefe G	21518	Commission	
Gemerer P van	24259	Giordano B	19350	Gómez N J	23781	Graff Y	24397	Gt Brit Forestry	20632
Gemmeke	22177	Giordano G	20756	Gómez Ortega	21935	Graham	24207	Commission	
Gemmill A V	23520	Giraldo J E	20337	O L	25782	Graham M W R	21057	Gt Brit Forestry	20652
Gennari G	25131	Girard G	21150	Gómez Ramfrez	25012	de V	22845	Commission	
Georg L K	18906	Girard H	21151	C A		Graham W R Jr	21058	Gt Brit Ministry	23226
George M C	25432	Girard H	21152	Gonçalves P A	18994	Gralak G G	23801	of Agriculture	
Georgiu N	19468	Gisevius R	18810	Gonçalves P A	18995	Grälén N	21969	and Fisheries	
Gerbella M E	19100	Gfslason S	23492	Gonçalves P A	20403	Granata G	21778	Agricultural	
Gerberich J B	22618	Gfslason S	25205	Gonçalves P A	25293	Granata R	23391	Land Serv	
Gericke A M	21834	Gispén R	22555	Gondry J	19765	Granberg W J	20984	Great Plains	25208
Gericke S	20128	Gistl R	24301	Gontarski H	22463	Grandori L	22327	Agricultural	
Gerlach M	24298	Giua M	21153	González A D	23916	Grandori L	22327	Council	
Gerlich N	22462	Giubbilei C	21734	González E J	24755	Grandori R	22328	Greaves E O	25815
Gerlings J H J	20729	Gluffrida C	18696	González Arroyo	24569	Grandori R	22799	Greaves J B	25209
Germ H	19258	Giuliani R	21466	S		Grandori R	22800	Greco E C	19846
Gerosa G	21462	Giusti U	21777	González	23782	Grannas J	23783	Greece Greek	25325
Gerrard F	24542	Gjaerevoll O	18191	Cantisano A B		Grant D L	23969	Recovery Pro-	
Gerritsen C	19375	Gjaerum H B	18488	Gonzalez G F	22266	Grant R	24595	gram Coordinat-	
Gerritsen C	19376	Gjelstad V	22193	E	19555	Grant T J	18584	ing Off	
Gerritsen G	22554	Gjelsvik O	24302	Gonzalez	19235	Granvik B A	23038	Greeley W B	20487
Gerritsen J D	19377	Glabau C A	24396	Padilla A G		Graser H I	18561	Green D E	18589
Gershenfeld L	23780	Glantz P J	21467	Gonzalez	25207	Grassi C J	20268	Green M B	21719
Gershill B	24176	Glaser L	22013	Tafur O B		Graton A	21877	Green W	25134
Gery J G	19101	Glass B	22711	González	19226	Graub E	21471	Greene J E	21154
Gessner F	18907	Glässer	22236	Velasco J		Graumann H O	18192	Greene J E	21643
Getson S F	20983	Glazener E W	21830	Good G H	21469	Graves A H	18491	Greene P H	25326
Geue K	23632	Glauson Sir G	20476	Goodings A C	24052	Graves C E	25874	Greenslade J A	22205
Geyer J A	18992	Glazener E W	21922	Goodman A M	23243	Graves G	19556	Greenstein S B	23634
Ghent Landbouw-	25322	Gleason H A	18288	Goodman F L	23917	Gray B	24509	Greenwood D A	24637
hoogeschool van		Gleen H	20011	Goodwin E E	22204	Gray B	25091	Gregg J R	25875
den Staat		Gleissner K	25582	Goodwin T W	18926	Gray W D	24398	Gregory F G	18911
Rijksstation		Glendening G E	19845	Goossens L	24053	Graydon J F	23633	Gregory P H	18580
voor Landbouw-		Glennie A G	20868	Gorbacheva A P	21375	Grayson H	20229	Greve	21472
economie		Gloss R H	23298	Gordeev S V	22464	Grazia S de	20269	Greve S G	25210
Ghisleni P L	19102	Glover Sir H	20338	Gordeuk A	22015	Gt Brit Board	25209	Grey D M	20765
Ghivier C	21463	Glover P E	19946	Gordeuk A	24756	of Trade		Greyerz H von	20488
Ghosez J	24050	Hück H	25749	Gordienko M	20339	Gt Brit Colonial	23039	Griebl A	19557
Ghosh A	25132	Ilushchenko I	25873	Gordon A	19214	Advisory Coun-		Griffin E D	23970
Ghosh A K	18962	Lynn R V	19103	Gordon A	23036	cil of Agricul-		Griffin H P	22016
Ghosh B K	24833	Gnaegi H	23562	Gordon E	20049	ture Animal		Griffith G W	25013
Glaia J	21932	Gnedchik P V	19293	Gordon G E	23244	Health and		Grigg G W	21856
Glandonato	25581	Gobbato C	25062	Gordon L A	21735	Forestry		Grigor'eva A	20270
R M H		Gobbie E J	22014	Gordon R F	21936	Gt Brit Colonial	25459	Grigsby B	19847
Giannotti O	22361	Gobble J L	22211	Gordon W A M	22240	Off		Grillot G	20012
Giarratana A	23352	Goddard D A	22620	Gordon W R	23037	Gt Brit Com-	24054	Grison P	22329
Giban	25872	Goddard D A	19104	Gordon W S	25973	monwealth Eco-		Grison P	22680
Gibbons T	25833	Goddard D A	21073	Górdova J M	24619	nomic Commit-		Grobman A	18812
Gibbons W J	21464	Godfrey G H	18463	Goret P	21470	tee		Groenewegen	19793
Gibbs J B	25749	Godfrey G H	18489	Goret P	21937	Intelligence Br		J H	
Gibbs P A	20619	Godfrey R K	18287	Goris J	19299	Gt Brit Colonial	24351	Grohmann F	20131
Giberti H	23196	Godfrey R K	18289	Gorman J M	19766	monwealth Eco-		Groot E H	23794
Gibson A	24293	Godfried M	19047	Görnhardt L	24764	nomic Commit-		Groot E H	25836
Gibson C A	23874	Godnev T N	20129	Goroshchenko	23477	tee		Groot H de	19106
Gibson C L	22710	Godoy Júnior C	20130	E N	18743	Intelligence Br		Groot T de	21376
Gibson D L	25589	Godoy Junior C	21706	Gorra G	25838	Gt Brit Com-	24681	Gros A	18913
Gibson P B	18993			Gorshkov I S	19300	monwealth		Gros A	19107
Gibson R C	24880					Economic Com-		Grosch D S	22846
Gil de Rubi	24938					mittee			
V M						Intelligence Br			



Item	Item	Item	Item	Item
Grosch D S 22847	Gutknecht H 21377	Hamada M 22336	Harper H J 19978	Hawkes A D 18291
Gross C 25460	Gutman B 24059	Hamada M 22337	Harper H J 19979	Hawkes A D 18292
Gross H 20489	Guymon J F 23637	Hamar N 25121	Harper H J 20230	Hawkes J G 19770
Gross H 20620	Guzman V L 18950	Hambleton E J 22338	Harper H J 25328	Hawkey K 21587
Grossen M 23918	Guzmán V L 19767	Hamblin S F 19562	Harper J A 21737	Hawkins B 18933
Groven I 19469	Guzmán V L 19768	Hamblin S F 19563	Harper J A 23077	Hawkins P A 21942
Groves D E 23245	Guzmán Barrón 23400	Hamblin S F 19564	Harper R E 19769	Haworth-Booth 19568
Growers Ad- ministrative Committee 24230	A Guzmán 25797	Hamence J H 20392	Harrar J G 25950	M Haxo F 18927
Grubb T C 18532	Barrón A 24400	Hamet R 18919	Harrell R 24563	Hay J 19569
Grudinskaf Z N 22672	Gwillim G M 22068	Hamilton A 25959	Harrington A H 24419	Hay W D 24105
Gruget E A 19048	H Gyle-Thompson 22068	Hamilton C H 25535	Harrington J B 19049	Hayakawa S 25830
Gruget E A 24055	Gylling A 19426	Hamilton J F 20918	Harrington L 25434	Haydak M H 22471
Grully E de 23635	Gynn G 25136	Hamilton T K 23830	Harrington R 25434	Hayden B E 22343
Grumbles L C 21938	Haag H B 22332	Hamlen F 21292	Harris A W 21738	Hayden C A 24179
Grumbles L C 21939	Haan J H de 25498	Hammeneker J 23806	Harris F J T 24205	Hayes B 24757
Grund P 19425	Haarer A E 19108	Hammer O 22467	Harris L E 21379	Hayes W B 19261
Grunin K A 22712	Haarer A E 19901	Hammerle W C 20493	Harris M D 25461	Hayes W J Jr 22344
Grupp G W 20905	Haarer A E 20013	Hammerschlag 19428	Harris R L 19850	Haygood T F 25096
Grueter F H 18796	Haarer A E 20133	Hammond A E 23521	Harris R S 21061	Hayne D W 18408
Gryza A 25583	Haas H 19185	Hammond A E 24305	Harris T H 18493	Haynes D W M 23016
Gualla B 23328	Habermehl K H 21779	Hammond J 21155	Harris T M 18195	Hays F A 21943
Guard A T 20647	Hachenberg F 20491	Hammond J 21293	Harris W V 22982	Hayward A 19570
Guardiola L 25211	Hacker W 18492	Hammond R 20271	Harrison A 22438	Hayward W B 25066
Gubányi E 18814	Haddow A J 22774	Hamon P 23919	Harrison E S 23741	Hazaleus M H 21294
Guck D G 20764	Haddow A J 22775	Hampé A 21941	Harrison J S 18865	Hazeltine W 22627
Gudgel W L 20132	Hadfield M 19559	Hamstead E O 22895	Hart C E 20651	Heaney S 22021
Guet M 19512	Hadfield W V 20134	Hancock R C G 20035	Hart F H 23078	Heath O V S 18923
Guenot 19470	Hadlington P 22333	Handel- Mazzetti P 20494	Hart L 25589	Heatherly L J 20780
Georgulev B 22577	Hafenrichter A L 19109	Hanebut 21378	Hart M van der 21763	Hebbelynck M F 18308
Guerin H 22330	Hafenrichter A L 19132	Haney T G 19848	Hart S H 25094	Hebel I B 20798
Guevara R J de D 19985	Hafez E S E 22107	Hanf M 18918	Hart S H 25095	Hebert T T 18409
Gueydon L 19558	Hagberg A 18653	Hanf M 22624	Härtel O 19259	Heck P 23640
Gugalo I A 20825	Hagberg E 20441	Hankins O G 21246	Hartigan D T 20730	Hecker J L 24666
Gugnoni D 24939	Hagen C E 18766	Hankins O G 24511	Hartley A W 24403	Heckl R 23247
Guichandut J J 24517	Hagen K S 22622	Hankinson D J 23920	Hartley W 18290	Heckman J H 25685
Guichard A 22017	Hagen von dem 20442	Hanraets J M J 20272	Hartman A J 25014	Heckman J H 25686
Gulbert H R 21556	Hagerstrom M 19461	Hanrahan F J 20779	Hartneil J 24512	Hedges H 25687
Guild L P 23413	Hagglund E 20952	Hansen H C 23921	Hartsock J W 23824	Hedges H E 20741
Guilhem J 23636	Hagglund E 21002	Hansen J S 25093	Hartung E W 22715	Heeney H B 18822
Guillon H 22465	Haine E 22894	Hansen K 21336	Hartwig H B 19112	Heesen G J 19430
Guillaume A 22621	Haines F D 21736	Hansen M F 21780	Hartwig H 21799	Heflebower R B 23499
Guillot R 19400	Hainsworth E 18406	Hansen M F 21980	Harvey A L 21600	Hegsted D M 25798
Guillou R 23101	Håkansson R 25584	Hansen M F 21981	Harvey C 19113	Heiberg H H H 20599
Guimaraes A 23448	Håkansson R 25585	Hansen M F 22154	Harvey E M 24231	Heid J L 24307
Guinier P 20757	Håkansson R 25586	Hansen O 23522	Harvey G R 25063	Heideman A G 23971
Gulbrandsen O 25327	Håkansson R 25587	Hansen O S 23740	Harvey H G 24306	Heidenreich H 21249
Gundersen A 18193	Håkansson R 25588	Hansen O S 23922	Harvey Jellie W 22283	Heikertinger F 22897
Gunderson H 22331	Hal A 18407	Hansens E J 22339	Harwood P 22948	Heimerdinger W 24208
Gunn C K 21720	Hall C 24623	Hanson C H 18194	Harwood P D 22341	Heimlich A 19571
Günthardt H 18815	Hall C C Jr 22981	Hanson D 23281	Hase A 22625	Heimlicher E 23918
Günthart A 23040	Hall C J 19427	Hanson D 23353	Haseman L 22626	Heinemann P 18629
Günthart E 23178	Hall H 19560	Hanson L E 21059	Haseman L 22896	Heinemann W W 21063
Guothfalyv- Dorner A 23563	Hall H H 19228	Hanson O 19215	Hashimoto Y 24404	Heinisch O 18698
Gupalo P I 18916	Hall I F 25092	Hanson R G 19110	Haskins R H 18369	Heinrichs D H 18197
Gupta S 25132	Hall J 23002	Hansson A 22468	Haslund O 20686	Heinrichs W 20540
Gupta S M 24056	Hall L B 22334	Hansson A 22469	Hassan H H 25837	Heinzelman M L 20695
Gupte R G 25187	Hall M D 22018	Hansson A 22470	Hassett C C 22716	Heinz 21835
Gupte V V 24057	Hall M D 22019	Hanten H 20136	Hastie C N Jr 19566	Heinze PH 24217
Gureev N M 20490	Hall M M 23638	Hara S 18590	Hastings R G 25015	Heisch R B 22556
Gurevich L I 18733	Hall R 24510	Harada K 19849	Hata T 18196	Heisdorf A 21936
Gurneau C J 21644	Hall T E 24401	Harada T 22340	Hatakoshi S 22342	Heiskanen V 20843
Gurney A B 22949	Hall-Green C E 24624	Harbor D R 20137	Haubold R 23041	Heiss R 23466
Gusev B A 21711	Hallander A 20492	Hardenburg E V 20404	Haudenschild W 20598	Heiss R 24405
Gusler G 23449	Hallaure J 24177	Hardin W S 25523	Hauman L 25914	Heltz G E 25007
Gusler G 24399	Hallaure J 24178	Hardt H 24682	Haun T H 20138	Helgason S B 19050
Gusler G 25212	Halle K 21291	Hardy G H 22713	Haun T H 20139	Hellberg A 21380
Gustafson D P 21940	Halleman A 22335	Hardy G H 22714	Hauschild I 18591	Hellbusch C 21588
Gustafsson A 18697	Halleman A 22623	Hardy T W Jr 21060	Hauschild I 22829	Hellbusch C E 21739
Gustafsson A 18817	Halliday D J 20135	Hardy W T 22155	Hausman E H 19567	Hellbusch C E 21740
Gustafsson G R 20959	Halloway H R 19561	Hargreaves J 22093	Hausner 20140	Hellbusch C E 22108
Gustafsson L 25135	Halls E E 23478	Harki I 24979	Hauville A 19301	Helle O 21473
Gutarra 19977	Hallsworth E G 20050	Harlan J R 19111	Hauville A 19429	Heller F 24352
Zamudio M	Halpaap 23246	Harler C R 23639	Havas L J 18919	Hellyer A G L 19572
Guthrie J D 24058	Ham W E 21063	Harmat L 23949	Havas L J 18920	Hellyer A G L 19573
Guthrie J G 20806	Hama T 22903	Harmel T 23831	Hawalian Sugar Technologists 19216	Heiman M B 24517
Gutierrez R O 18610		Harp H F 19565		



Item	Item	Item	Item	Item
Heltemes C J 24643	Heyningen J van 19378	Hodges H G 21475	Honig P 25536	Hrynlewlecki B 25919
Hely F W 23122	Heywood V H 18198	Hodgson H J 19115	Hönl 24354	Huang T C 22215
Hemmes G D 24596	Hicklinbotham 24353	Hodgson J M 19951	Hönl 24355	Hubbard W A 19117
Hemphill P V 23493	A R	Hodgson R E 21246	Honnorat 19470	Huber B 18202
Henares H G 23197	Hickish H W 23248	Hodson E A 19116	Hoobler S Q 24232	Huber H 23643
Hende A van den 22345	Hickman C W 22131	Höeg O A 18200	Hood E G 23874	Huber M G 23266
Hendershott 19574	Hickman J W 21825	Hoekstra P 21299	Hood J D 22983	Hublin R 24810
Mrs H M	Hicks J W 23832	Hoekstra P 22023	Hood M 22581	Hübner R 18924
Henderson H B 23946	Hickson H E 20895	Hoerlein B F 21154	Hoofnagle J E 23378	Hucker G J 24262
Henderson I B 18410	Hidaka Y 19772	Hoerlein B F 21655	Hoogendoorn J 21838	Huddleston I F 21159
Henderson J 20883	Hidiroglon M 21781	Hoernle E 25330	Hoogenraad H R 18296	Hudson M S 20885
Henderson P F 19575	Hiemeleers J 24274	Hoeve M van der 24062	Hoogewerff H 19902	Huey B M 20687
Henderson R G 18411	Hiementers J 24309	Hof T 20884	Hooghoudt S B 19947	Huff L 19856
Hendrickx H 23923	Hieronimus 19576	Hofer H 23835	Hoogland D M 24597	Hughes C E 21160
Hendriks T F 23967	A M	Hoff G B 20141	Hoogland E J A 23123	Hughes D 25799
Henderske J 21295	Hieronymus A M 19577	Hoff P R 23249	Hooper G H 21382	Hughes D L 21947
Heney J W 21659	Hietaranta M 23924	Hoffer C R 25589	Hoorn G H te 18496	Hughes L E 22156
Hengl F 25097	Higgins F H 18997	Hoffman E 21837	Hoos S 24980	Hughes T E 22559
Henin H 18618	Higgins F H 20807	Hoffman E 24760	Hooser F C 23151	Huitema H 19118
Hening J C 24322	Higgins R A 24248	Hoffman I 22081	Hope R J 24086	Hulbert L S 25093
Henkel H 19262	Higgs C 21251	Hoffman I C 19773	Hopkin J A 25499	Hultén E 18299
Henkel H 23523	Higgs C 23833	Hoffman R L 22557	Hopkins D P 22350	Human J P E 22797
Henkel H 24308	Hignett S L 21297	Hoffman R L 22558	Hopkins E F 24314	Humes A G 22560
Henley J H 24260	Higuchi T 18196	Hoffmann A 22629	Hopkins W 21383	Hummel C 25017
Hennau 21468	Higuti T 22384	Hoffmann A 22630	Hopkirk C 21158	Hummel F 24315
Hennen J F 18293	Hikita S 18215	Hoffmann C de 19236	Hopmann 24407	Hummel F C 20629
Hennig W 22717	Hilbert M S 23880	Hoffmann E 22998	Hopper W C 25216	Hummel F C 20630
Henri C 23641	Hilbrig C 21156	Hoffmann E 23178	Horanic G E 18804	Hummel F C 20631
Henrichsen J 23972	Hildebrand F H 19578	Hoffmann E 25331	Hori M 18416	Hummel F C 20632
Henrickson R L 24559	Hilditch T P 24663	Hoffmann G M 25941	Horn L J 23201	Hummel F C 20633
Henrie J O 20291	Hildreth A C 19579	Hoffmann R 25332	Hornberger T 25334	Hummel F C 20688
Henriques E 23873	Hill D L 18921	Hofmann E 20014	Horncastle D C 20826	Hummel F C 20689
Henry W F 23837	Hill E B 25329	Hofmann E 23524	Horne F R 18998	Hummel L E 25719
Henschel A 25833	Hill F W 21878	Hofsten C G von 19852	Horne T J 25591	Humoller H F 24761
Henson P R 19148	Hill H 18922	Hofsten C G von 19853	Horner F 22024	Humphrey H J 23402
Henze 18412	Hill R A 20273	Hogan M 25653	Horner G M 20142	Humphries E C 18825
Hepting G H 18413	Hills G L 23950	Hogan M A 23743	Hornemann E 20443	Hungary Minis- try for Foreign Affairs
Herberg M 22346	Hillyer K 24741	Höle J 21879	Horrdin S 24064	Information Dept
Herbert J 20073	Hillyer K 25556	Holtink A W J H 21157	Horspool R P 18386	Hungary Ministry 25688 for Foreign Affairs
Herbette F 24808	Hilner R 21381	Holden F J S 23318	Horst J A ter 20143	Information Dept
Herbette F 24809	Hincks W D 22628	Holdman E T 20972	Horst M 25916	Hunsaker L R 21326
Herbsthofer F 23150	Hincks W D 22850	Holdsworth M 18823	Hörsta G 23331	Hunt A F 25018
Herken H 22347	Hind R R 24882	Holgate K C 24883	Hortobágyi T 18655	Hunt B P 22984
Herman H A 21296	Hine H J 23199	Holl W 21476	Horton C R 21384	Hunt C B 20052
Hermans P H 18935	Hine R 18414	Holland A G 21742	Horvatić S 18297	Hunt R 24940
Hermos de 21250	Hinton C L 24310	Holland D O H 25333	Horwood M P 23875	Hunt S B 24066
Mendoza A	Hirata K 18199	Holland J G 19582	Horynová A 23102	Hunter A S 24316
Hernández F A 18996	Hirata Y 22972	Holleman M P 23951	Hoskins B 18201	Hunter W A 24067
Hernández F A 19207	Hirobe T 23043	Hollje-Luerssen 25590	Hossack G W 20985	Hunwald A 25217
Hernández- Gutiérrez F 24261	Hirsch A 24759	Holloway A E 23330	Hossli H 20553	Hupkes C M 24513
Hernández	Hirsch D E 23834	Holloway T E 19217	Hostettler H 23925	Hurd M A 19119
Xolocotzi E 18294	Hirsch K 23163	Hollowell E A 18424	Hottes F C 22796	Hurel-Py G 18656
Herrera 22348	Hirschhorn E 18494	Holm R W 18295	Hottinguer H 18186	Hurst W M 23152
Aranguena J	Hirt R R 18415	Holman L E 24683	Houck L H 20420	Hurt B C Jr 19002
Herrick C A 21944	Hirt J 21152	Holmberg C 18495	Hounie E 24625	Hurt L M 21477
Herrick C A 21948	Hitchner S B 21945	Holmberg J 22719	Houser Z L 23164	Hurt L M 23745
Herrliott R M 21225	Hitchner S B 21946	Holmberg S 19200	Houston R 24275	Hush H 20144
Herrström G 22849	Hites B D 23401	Holmes E 19854	Hout A van 19583	Huss B 25218
Hershley L 21741	Hittler H 18699	Holmes J H 21645	Hout F B 23368	Husz B 18417
Hertzberg J 25213	Hittler H 25915	Holmes O 24684	Hout F van 22025	Hutchings B L 21891
Herve J 23198	Hjelm L 25214	Holmes V B 22950	Hout F van 22026	Hutchings L M 22237
Hervey A 18987	Hjeltnes A 19302	Holmgren A H 19955	Hout F van 24065	Hutchinson A E 20231
Herz H 23742	Hoak C M 19580	Holmström S 20706	Houtzagers G 20444	Hutchinson S A 18922
Herz H 23781	Hoak C M 19581	Holt L 20706	Houtzagers G 20445	Hutchinson A J 20808
Hess R W 21021	Hoard B 24311	Holten E 23525	Hovanitz W 22899	Hutchison J E 23140
Hesselbjerg M 25016	Hoare E R 23200	Holten E 24313	Howard H W 18688	Huysmans G L 22721
Hester O C 24758	Hobbes J C 25249	Holton W V 24063	Howe P E 21246	Hveding A 20467
Heuckmann W 23642	Hobbs G A 22851	Holvenstot C E 21691	Howell J T 18298	Hvidsten H 21252
Heuser G F 21878	Hobbs K R 22852	Holz C 21646	Howell M 20274	Hvidsten V H 21385
Heuser G F 21888	Hobson G 21298	Holz W 18654	Howell M 20275	Hvoslef O 20766
Heuser G F 22022	Hobson K 25215	Holzberlein 22472	Howitt F O 22973	Hyam G 19534
Heuss R 24406	Hochkönig W 23044	J W Jr	Howlett F S 19775	Hyams E 19431
Hewitt W L 24060	Hockensmith 20051	Hölzel A 20781	Hoyer 22473	Hyams E 19432
Hey G L 22349	R D	Homan J L 23744	Hoyt C 22720	Hyde H P T 18203
Heyn A N J 24061	Hocking B 22718	Home Grown 19774	Hrbáček J 22631	
Heyn H 19771	Hockley J 22109	Threshed Peas 22282	Hrynlewlecki B 25917	
Heyne E G 19114	Hodge E A 23329	Joint Com- mittee	Hrynlewlecki B 25918	
	Hodge E A 24312	Homiller R P 24297		
	Hodge W C 20547	Honey R R 23282		
	Hodges H G 21474			



Item	Item	Item	Item	Item
Hyder D N 19120	Indian Central 24076	International 20405	Jahn R 20600	Johansson I 21033
Hyland K E 22561	Cotton Com- 24076	Superphosphate 20405	Jahnke F 20406	Johansson I 21701
Hyland M L 25399	mittee 24076	Manufacturers' 20405	Jakowska S 18933	Johnsgard G A 25501
Hylander N 18204	Technological 24233	Association 20341	Jamaica Dept of 19094	Johnsgard G A 25520
Hyler H E 20957	Laboratory 24233	Iowa State 20341	Agriculture 19094	Johnson A T 19588
Hyler J E 20844	India Directo- 24233	College 19264	Jamaica Dept of 19095	Johnson A T 19589
Hyler J E 20858	rate of Market- 24068	Iowa State 19264	Agriculture 19095	Johnson A W 22797
Hyler J E 20859	ing and Inspec- 24068	Horticultural 21300	Agriculture 19349	Johnson C A 21948
Hyler J E 20919	tion 24068	Society 21300	Jamaica Dept of 20122	Johnson C E 19590
Hyre F M 25592	India Ministry 24068	Ipsen E J 21300	Agriculture 20122	Johnson E A 22029
	of Agriculture 24068	Ireland Electri- 23332	Jambor B 25840	Johnson E L 21880
	Directorate of 24068	city Supply 23332	James M T 22723	Johnson E L 21881
	Marketing and 24068	Board 19905	James O D 21659	Johnson E P 21949
Iablokoff A Kh 22284	Inspection 24685	Irigoyén 19905	Jamieson S 22156	Johnson E P 21950
Ākadina A I 20909	India Ministry 24685	Irvin G 21839	Jamnbach H A 22560	Johnson G W 22207
Ākimova E D 22133	of Agriculture 24685	Irvine T W 20631	Jamotte A 25920	Johnson H 21161
Ākovlev F S 18623	Directorate of 22801	Irwin W F 21647	Janecke H 24384	Johnson H A 19002
Ānovskij D 18926	Marketing and 22801	Irwin W F 21648	Jankowski B 25753	Johnson H A 19003
Ārovov A 25137	Inspection 22801	Isaacson M R 20053	Jans J 19303	Johnson H A 19125
Ibbotson A 22804	Indian Lac Re- 19903	Isachenko T I 18624	Jansen B C P 25841	Johnson H N 21162
Iby G 20495	search Institute 19903	Isaev M S 19453	Jany E 22632	Johnson I 23003
Idenburg P J 25994	Indian Tea 19904	Isajev F 22206	Jarl F 19063	Johnson I M 20147
Idstein J 24384	Association 19904	Isajev F 22208	Jarl F 21386	Johnson J L 23203
Iersel J van 22853	Indonesia Bos- 20707	Isakov I 20270	Jarrin Vera 25800	Johnson J R 20074
Ignacio P J 18951	bouwproef- 20707	Isabaert 24962	J A L 23785	Johnson M L 21479
Ignatius J G W 25994	station 20707	Isenbeck K 19001	Jarrousse H 23785	Johnson M M 20943
Ignell G 19496	Ingalls N M 19585	Ishihara M 21301	Jarrousse H 23786	Johnson N W 25976
Iida S 22440	Ingalls W L 21454	Ishikawa 18657	Jarvis D C 22474	Johnson P C 25221
Ikeda Y 22722	Ingelström E 18419	Triveho L R 19201	Jarvis D C 22475	Johnson P C 25593
Illeva S 18927	Iniguez Garcia J 19776	Isip I N 19201	Jarvis J W 23079	Johnson P L 24280
Ī'in B A 20837	Inman W 19857	Ito S 18372	Jasny N 23494	Johnson P T 22783
Ī'in V A 20827	Innes D 19358	Ittner N R 23250	Jasper D E 21649	Johnson R F 21389
Ī'ina A I 18928	Innocentis M de 23512	Īudin K A 18451	Jasper D E 21650	Johnson R P A 20782
Ī'ina E D 21700	Inoue K 24071	Īuferov V A 20232	Jayne G 20574	Johnson S 23837
Ī'inskiĀ A A 19379	Inoue S 24072	Ivanoff S S 19002	Jayne G 20953	Johnson S E 25335
Ī'Īushchenko 19380	Inouye N 23526	Ivanoff S S 19777	Jazewitsch W 18202	Johnson V K 24515
K L 20886	Inouye Y 20886	Ivanov Īū M 21016	von 21016	Johnson W C 20233
Illa Claparols 18418	Insabato E 25462	Ivanov M S 21913	Jeanes A 24884	Johnston F B 18822
L 25995	Institut Interna- 25995	Ivanova G F 18929	Jeannel R 22633	Johnston H B 22110
Illanes Abbott E 25219	tional de Sta- 25995	Ivanova S ĪA 22802	Jeannel R 22634	Johnston T E 21892
Ille P 20887	tistique 25995	Ivanov N 24075	Jeannel R 22635	Johnstone F E 19780
Iltingworth F 19263	Institut National 22645	Ivens G W 18930	Jeannel R 22636	Johnstone-Wal- 19126
Īukewitsch A 23403	pour l'Étude 22645	Iversen K 19121	Jeannel R 22637	lace D B 21480
Īvessalo Y 20634	Agronomique du 22645	Iversen K 19980	Jeffers J 20631	Johnstone-Wal- 21480
Imhof A H 18999	Congo Belge 22645	Iversen K 20145	Jeffers J 20632	lace D B 20954
Imhūlsen A D 23836	Institut Profes- 21064	Iwazaki Y 24319	Jeffers W F 18554	Joint Executive 20954
Implement & 23202	sionnel de Con- 21064	Iyengar R L N 24076	Jefferson M E 24686	Committee of
Tractor 23202	trol et de Re- 21064	Izard C 18700	Jehn K H 18625	the Vocational
Imshaug H A 18370	cherches Sci- 21064	Izawa B 19906	Jelmonl E 21065	Education Com-
Imshaug H A 18371	entifiques des 21064	Izumli Y 23428	Jenkins C F 22951	mittees of the
Inda I 24514	Industries des 21064		Jenkins C F H 22803	Pulp and Paper
India Agricul- 23450	l'Alimentation 21064		Jenkins W R 22027	Industry of the
tural Marketing 23450	Animale 21064		Jennings J 22028	United States
Adviser 23450	Inter-American 20261	Jack A 20374	Jensen C 21043	and Canada
India Agricul- 24068	Conference on 20261	Jacks A 19122	Jensen C 21043	Jolivet P 22638
tural Marketing 24068	Agriculture 20261	Jacks A 19123	Jensen G 18934	Jolly C A 25591
Adviser 24068	Inter-American 20325	Jacks A 20276	Jensen H 18564	Joly P 22639
India Agricul- 24233	Conference on 20325	Jacks A 19586	Jensen J M 23080	Joly R L 23644
tural Marketing 24233	Agriculture 20325	Jackson N 19124	Jensen J M 23892	Joly R L 24516
Adviser 24233	Inter-American 21246	Jackson N 19202	Jensen K K 23746	Jonas V 23527
India Agricul- 24685	Conference on 21246	Jacob A 20146	Jensen L S 24762	Jones A F 21619
tural Marketing 24685	Agriculture 21246	Jacob H E 19433	Jensen P E 24180	Jones A F 21620
Adviser 24685	Inter-American 25489	Jacob W C 18931	Jensen S K 21589	Jones A H 23528
India Directo- 23450	Conference on 25489	Jacobi C 20342	Jensen T M 23153	Jones B M 22562
rate of Market- 23450	Agriculture 25489	Jacobi N 18932	Jensen W 21003	Jones B M 22563
ing and Inspec- 23450	International As- 23876	Jacobs D B 19587	Jessen L S 19778	Jones D L 19051
tion 23450	sociation of Ice 23876	Jacobs L 22351	Jessen L S 19779	Jones D L 23134
Indian Central 24069	Cream Manu- 23876	Jacobs T 22345	Jetne M 24317	Jones D L 24151
Cotton Com- 24069	facturers 23876	Jacobsen A P 23451	Jimison R L 23747	Jones D R 18562
mittee 24069	International 24073	Jacobsen J B C 24834	Jirū P 20887	Jones E W 20909
Indian Central 24070	Cotton Advisory 24073	Jacobsen N A 21478	Joglar- 18592	Jones F E 22351
Cotton Com- 24070	Committee 24073	Jacobson M 22352	Rodriguez F 19237	Jones G O 19304
mittee 24070	Delegation from 24073	Jacoby W 21840	Joglar- 19237	Jones H W 19052
Indian Central 25752	Pakistan 24074	Jacubett B 24941	Rodriguez F 19238	Jones J H 21396
Cotton Com- 25752	International 24074	Jaedicke C D 20277	Joglar 24942	Jones J M 24077
mittee 25752	Federation of 24074	Jaeschke A 20986	Rodriguez F 24942	Jones J M 24517
Indian Central 24057	Master Cotton 24057	Jaffé W G 22082	Joglar- 24942	Jones J S 25595
Cotton Com- 24057	Spinners' and 24057	Jaffé W G 25838	Rodriguez F 24942	Jones K 23281
mittee 24057	Manufacturers' 24057	Jaffé W G 25839	Johannes H 18497	Jones K W 20920
Technological 19000	Associations 19000	Jagerschmidt 22621	Johanson F D 22353	Jones L G 19127
Laboratory 19000	International 19000	Jahn R 20573		



Item	Item	Item	Item	Item
Jones L W 25596	Karlsen G G 21914	Kellogg Q A 24570	Kircher W H 23359	Kochakian C D 21785
Jones M 21387	Karnatz H 19305	Kelly C F 23250	Kirchner J G 24212	Kocher L 22642
Jones R N 25597	Kárpáti Z 18300	Kelly E 21651	Kirk D E 23205	Kochkin P N 20832
Jones R T 23333	Karpiński J J 20601	Kelly E M 25599	Kirk H 21653	Kodachigov 20742
Jones R W 25444	Karpov L 24078	Kelly F C 18839	Kirksey G 21163	Koeck W 24689
Jones S N 24408	Kartashev G A 22477	Kelly G W 19265	Kirksey G F 21164	Koehler A 21024
Jong B de 22564	Kasai K 21782	Kelly G W 20015	Kirov K 18943	Koehler W 20496
Jong P de 20148	Kaschula V R 22565	Kelly W S 20113	Kirsner J B 21662	Koenig R M 21067
Jonge C de 22900	Kaschula V R 22586	Kelman A 18564	Kirwald E 20758	Koenig W 22031
Jongh M M de 21590	Kashekov L 23369	Kelsheimer E G 20382	Kiselev A B 19306	Kofranek A M 19596
Jordan G L 23495	Kashinsev N 24079	Kelso E G 20446	Kish A F 24770	Koger M 21457
Jordan J H 20783	Kas'ianenko A I 19382	Kelso M M 25500	Kishchenko T I 20829	Kohler 23126
Jordan L J 24482	Kasse H 22478	Kelso V 19006	Kisser J 21004	Köhler H 18422
Joslyn M A 23404	Kastmark C F 20845	Kemmer E 18840	Kitchen J B 21390	Köhler O 24887
Joubert L 21470	Kastorff B 23467	Kemmerer A R 25856	Kitching H W 20278	Kohr L A 23839
Jouan E 19591	Katayama A 22440	Kemp P D 20554	Kjome O J 21592	Kolvisto E 23748
Joutsenlinna U 23124	Kates K C 22168	Kemper H E 22157	Kjøe O 24519	Kolakovskij A A 18628
Jovančić L 21932	Katkov V 23646	Kemp N W 23647	Klauditz W 20988	Kolaf J 20151
Jovine L 22411	Kato H 18206	Kennedy J D 20910	Kleber W 23650	Kolbanovskaia 24812
Judd W W 22901	Katouzian I 24943	Kennedy J S 22904	Klechkovskij V M 19982	Kolesnik L V 18844
Judd W W 22952	Kafsnel'son S M 18936	Kennedy L 23788	Klein H 18627	Kölfasev F E 19948
Judy W 21692	Katamura Y 22382	Kennedy R E 21771	Klein L G 19436	Koll F 23251
Judy W 21693	Katwijk W van 22854	Kenney S M 22930	Kleine F K 22724	Koll F 23304
Juergenson E M 25572	Katznelson H 18563	Kenning W 18941	Klemme A 25337	Koller R 21165
Juge R 23354	Katznelson H 23787	Kerby R G 18942	Klempau I 22347	Kölling F 22481
Juhre F 24763	Kauert G 19004	Kerr J 24409	Klenk E 23405	Kolochine- 22239
Jul R G 19203	Kaufman V F 24318	Kerr J 24886	Klens P F 20009	Erber B
Juncker F 23045	Kauter A 19128	Kerksen M C 23175	Klette G 19266	Komarov I U M 20810
June R I 18498	Kaven G 22355	Kertesz Z I 23531	Klietsch W 20150	Komarov L 23651
Jung H 23645	Kawase Z 24320	Kesselring H 23648	Klime A B 25222	Konde W N 21154
Jurén L 23564	Kawashima R 20378	Kester E B 19033	Kline E A 24520	Konde W N 21655
Juscafresa B 19434	Kay H D 21303	Ketz A 24598	Klingelhöffer H 23479	Konde W N 21656
Justin C 25820	Kay H D 21591	Keune 23838	Klingelhöffer H 23480	Kondo I N 19437
Juve A E 24803	Keagy E H 21712	Keune O 23814	Klingenberg S S 23877	Konrad E 24813
	Keagy H F 21712	Keys A 25789	Klinger D 25338	Koolj J N 24888
	Kearns C W 22754	Keyworth W G 18499	Klinkenberg 18500	Kools J F 20497
	Keaton C R 24234	Kharitonov D M 22356	Ch 19129	Koontz L L 24944
Kaay F C 21295	Keay R W J 18301	Khechinashvili E P 24679	Klitsch C 19129	Koot I van 18912
van der 22208	Keay R W J 18302	Khoroshilov A 23103	Kloen D 19781	Koot I van 20152
Kabát M 18205	Keck D L 19005	Khoroshilov A D 23104	Kloes L J J 20152	Koover C J 22482
Kadnikov K N 22433	Kedrin S P 19383	Kidner A W 20149	Kloot N H 21023	Kopaczewski W 23926
Kahl E 22433	Keefe T J 19369	Kiehl E J 19939	Klosterman E W 21043	Koppenfels von 20709
Kahlenberg O J 24764	Keegan H L 22566	Kiel Universität 25161	Klotz L J 18501	Koptev S 22483
Kahlenberg O J 24773	Keeney L G 23973	Instituts für Weltwirtschaft 25754	Klussendorf R C 21482	Kordé K B 18207
Kahn Q 24410	Keestra F 23893	Kielhöfer E 23649	Klykken O 19907	Korde W D 24690
Kaila A 20421	Keetch J J 20745	Kiellander C L 18702	Klykov V 22480	Korenev P D 23252
Kain D N E 23529	Kehr H 21388	Kierulff T 20708	Knapp B 22162	Korefskij D A 20652
Kainradl P 24811	Kehr H 25139	Kieschke S 22238	Knapp J G 25689	Korkhaus R 21253
Kaiser F 21302	Keifer F B 22121	Kiesel G K 21652	Knapp J G 25690	Korkman N 21593
Kakebeeke J 19381	Keliser J S 25754	Kihara Y 19007	Knapp J G 25691	Kormilev N A 22806
Kalachev A I 22476	Keilling J 20036	Kihara Y 24319	Knapp J G 25692	Kornas J 18251
Kale E W 24275	Kelser D M 24885	Kihara Y 24320	Knapp R M 24693	Körner W 24321
Kalela E 18626	Keith T B 21389	Kikkawa H 22972	Knaus K 25601	Koródi L 18945
Kalich J 21671	Keith T B 22131	Kilby A F 22095	Knight C A 18593	Korotonoshko 20811
Kallbrunner H 25138	Kelth T B 22131	Kimball R H 23808	Knight E B 25602	Korovochkin M 22484
Kaloyereas S A 23530	Kelkar G M 24688	Kimmins D E 22986	Knight L 18421	Kortenhorst A T 19042
Kalverkamp U D 23125	Kell J 24963	Kimura S 24972	Knight L 19782	Kortunov V N 20653
Kamaraju V 25019	Kellenberger F S 19592	Kincaid R R 19239	Knight R A G 20921	Koscheev A L 20710
Kamas J 24835	Kellenberger F S 19593	Kindstrand A 24080	Knoblauch B 21654	Koski V M 18928
Kamiya N 18935	Kellenberger F S 19594	King A V 19981	Knodt C G 21467	Kosobutskaja 18929
Kamp H J 22640	Kellenberger F S 19595	King C G 25801	Knoop C E 21483	L M
Kampe 25336	Keller 19435	King J L F 22902	Knoppin P 22358	Kostecka O 20016
Kanardov I P 20422	Keller E C 25598	King N J 18420	Knoppin P 22805	Koster 21068
Kane J G 24687	Keller E R 18937	King T 23293	Knott J E 21743	Kotidi E P 24209
Kansas Board of Agriculture 23565	Keller G J 24212	King T A 19740	Knowlton G F 22315	Kotok E I 20447
Kantner A H 24765	Keller R 18938	Kingman H E 21469	Knowlton G F 22641	Kotok E I 20498
Kantner A H 24766	Keller W D 20054	Kingman H E 21481	Knudsen O 25519	Kotze P L 21594
Kantola M 20828	Kelley G W 21980	Kingscote A A 21216	Knudson J K 25223	Koutz F R 21951
Kantšepol'skij A S 22178	Kelley G W 21981	Ginney P 21304	Knuti L L 25603	Kovda V 20280
Kanz N 23154	Kelley G W 22154	Kinoshta S 22903	Kobayashi I 22340	Kozal Y 20926
Kaplan R W 18711	Kelley H 23791	Kinsman J M 25600	Kobayashi J 20279	Kozhanov D I 20836
Kapner S H 22354	Kelley J L 19402	Kintzley W P 20423	Koblet R 19130	Kozhevnikov E 21815
Kappelle D 21066	Kelley L T 23413	Kips R H 22357	Koch P 21783	Kozlova A A 19438
Karandikar K R 22985	Kelley P L 23898	Kirby R H 20987	Koch P 21784	Kozłowska A 18658
Karaulov N A 23347	Kelley R B 22111	Kirby R H 24029	Koch W 21484	Kozłowski A 18846
Karbó A 22193	Kellner 21022		Koch W 22159	Krabbe N 19859
Kargin V 24046	Kellogg C E 22094			
Karishnev R 18701	Kellogg C E 24518			
Karkun J N 19917				



	Item		Item		Item		Item		Item
Kraemer G D	22904	Kupka T	22567	Landsorganisa-	25140	Leclerc F	24767	Leubuscher C	24891
Kraemer J H	21025	Kuppelmayr	24599	tioner i		Leclercq J	22855	Leukel R W	18502
Kraemer O	20153	Küpper A	19971	Sverige Lands-		Leclercq J	22856	Leupen F F	19910
Krajicek B E	22083	Kurjana R	21957	sekretariatet		Lecomte J	24692	Leuty J D	18953
Krajiski W	20759	Kurth E F	21005	Lane J	22726	Ledesma N R	19602	Levan A	18660
Krall P	21657	Kushalappa C M	20477	Lane J	22727	Ledger H P	20156	Leveck H H	22134
Kramer C	23532	Küster E	18659	Lane R K	23334	Ledin G	25758	Lever Brothers	24695
Kramer H A	24361	Kutsky R J	18594	Lane S F B	20449	Lee C D	21952	Economics and	
Kraska E J	23533	Kuttler A K	21167	Laneau R	23656	Lee C E	21953	Statistics Dept	
Krasnoshchek	20240	Kuurma K	22485	Lang L	24890	Lee F A	24322	Levin M	25759
I F		Kuvshinov I A I	23204	Lang W	19308	Lee O C	19361	Levin V M	21746
Krasnovskij A A	18929	Kuvshinov I S	18952	Lang W R	22161	Lee W D	20055	Levine B S	23789
Kraus H	21166	Kuz'min M K	18423	Lange W	23878	Leeder F	22644	Levine N D	21787
Krause D	21654	Kuz'min V	23155	Langer H	21168	Leeper P W	20102	Levinson H S	18377
Krause G	22807	Kuznetsova A V	18953	Langham W H	21169	Lees A B	18954	Leviton M	23790
Krauss G	24411	Kwazi S N	19307	Langhurst L F	24691	Lees A D	22570	Levitin I I	20655
Krauss W E	25802	Kwiatkowski G	18950	Lank J	22208	Leeson E	23657	Lewin J C	18565
Kreditforeningen	25020	Kyoto Diagaku	20425	Lantz H L	19384	Lefebvre C L	18424	Lewis D	22267
af Ejere af		Nogaku-bu		Lapazarán	20281	Lefèvre P C	22645	Lewis F C	23254
Mindre Ejen-				La Piana F G	24084	Lefort M	24182	Lewis J C	18209
domme paa		Laar A van	20499	Lapshina A	24079	Legendre G	21842	Lewis J R	25760
Landet i		Laarhoven van	21305	Lapygin S P	22486	Leggieri L	20157	Lewis J S	21649
Østifterne		Laben R C	21306	Larchier H	21266	Lehker G E	22359	Lewis L H	24521
Krehl W A	25842	Labonte C	23653	Larchimor H	21427	Lehman A W	23452	Lewy van	21041
Kreier V A	18787	Labrlego J	24083	Larimore J R	21841	Lehmusloto P	20830	Séveren M	
Kretovich V L	18930	Lachman W	19860	La Rivers I	22309	Lehrer F	18425	Leyendecker	18474
Kreutz W	20760	Lacombe R	23027	La Rue W C	24600	Lehrbas M M	20866	P J Jr	
Kreutzinger M	20635	Ladrat	21070	La Rue W C	25543	Leibfried E	25099	Leyendecker	18503
Krewson C F	24428	La Faye E A	23654	Lasbury R C Jr	24235	Lekander B	22646	P J Jr	
Kreybig L	20424	Lafon J	18951	Lasley E L	22112	Leker J E	23974	Leyendecker	18504
Krische P	20343	Laforest G	23046	Lassen L	20761	Lemée J	24814	Lhopiteau J	19030
Kristensen J M	23081	Laforet H	25464	Lasserre	21664	Lemle R	22179	Lhoste J	22988
Kristensson R	25400	Laforteza A	24379	Lathrop W H	20282	Lemmon P E	19132	Libowitzky J A	19605
Kristjansson B H	25501	La Framboise	19783	Latif A	22487	Lemon H W	24693	Liebenberg C R	22034
Kristjansson B H	25520	A V		Latorre Glauser	22032	Lemon J	20373	Lieberman M	24323
Krivshenko J D	22725	Lagarde J	19008	L		Lemons E	19983	Liebermeister K	21171
Kroese W I	24081	Lagaude F de	23047	Latour J M	18306	Lempke B J	22906	Liebmann H	21172
Kroese W T	24082	Lagermalm G	21969	Laubscher F X	19009	Lengemann F W	21410	Liebsch A	21661
Kromdijk G	19597	Lagos U J A	25339	Laudelout H	18483	Lenihan V M	23658	Liegeois F	21173
Kromdijk G	19598	Laguna Sanz E	21744	Laudelout H	20155	Leningradskoe	25141	Liendo C	23879
Krone P R	20154	Laidlaw F F	22987	Laudencia P N	20372	Oblastnoe		Liendo Coll P	25804
Kronenberger H	23165	Laignier	21658	Lauder J S J	21659	Upravlenie Sel'-		Lienert E	21487
Krueger W C	19599	Lalfo M V	20812	Lauderburn D E	20806	skogo Khozai-		Lierow	19133
Krug C A	18303	Laine T	19131	Laudermilk J	18852	stva		Light M R	22112
Krug C A	18692	Laing A D M G	22160	Laumont P	19010	Lenke D	22360	Ligondes J de	22908
Krug C A	18703	Laing A D M G	23253	Lauprecht E	21595	Leon J P de	21786	Lijsten R	19385
Krug C A	18777	Laird M	22905	Laurén R	23899	Leona V	21660	Likal'ter A	24085
Kruger R J	23652	Lal G B	25843	Laurence B R	22728	Leonard C D	20158	Lillienskiold M	24892
Krüger U	25604	Lal R	22908	Lauria M	25466	Leonard C D	20159	von	
Kruk H	23927	Lally M M	24764	Lavrenko E M	18208	Leonard H A	21486	Lilly J H	22973
Kruse A	24889	Lalor R J	21709	Law A G	19082	Léonard J	18306	Lima A da C	22957
Kruse E F	25755	Lamb G N	20784	Law A G	21391	Léonard J	18307	Lima A F	18505
Kruseman G	22285	Lamb G N	21006	Lawalrée A	18304	Léonard J	18308	Lima A N S	21636
Krüssmann	19600	Lamb I H	21307	Lawalrée A	18305	Léonard J	18332	Lima Centro	18972
Kruiy P A	19430	Lambert P	23785	Lawrence W W	25390	Leonard R B	20743	Nacional de In-	
Kruzhilin A S	18847	Lambert P	23786	Lawson G	23841	Leonard R O	20785	vestigacion y	
Kubersingh	19053	Lambert R E	25756	Laycock D H	19909	Leong K C	21884	Experimentacion	
Kübitz H	21424	Jr		Lazaro M I	19601	Leonhardt H	21170	Agropecuaria	
Kublan A	24836	Lambeth W O	20344	Leach E S W	25064	Lepage H S	22361	de La Molina	
Kubo S	23406	Lamm R	18704	Leach R	22910	Le Page M H C	19240	Limerick County	25878
Kubo S	24412	Lamm R	18705	Leadley T	23496	Le Pechon J	20160	Committee of	
Kucera M	18931	Lamo de	25465	Lease E J	24415	Lepentsov P A	20813	Agriculture	
Kuczarow W	18483	Espinosa E		Leatherdale D	22569	Lepidi J	24694	Liñan y Heredia	22488
Kudasheva R F	18848	Lamont H G	22240	Leb S	20345	Lepigre A L	22362	N J de	
Kudo M	24462	Lamouche J	25442	Lebeau J B	18397	Lerch D	22363	Linardić J	18354
Kuhn A O	24837	Lampe H J	23655	LeBeau O R	25686	Le Roi D	23749	Lindberg J E	24360
Kühne H	20922	Lamprecht H	19784	Lebedev S G	21745	Leroy	24416	Lindemann E	23417
Kulakovskaja	18861	Landbouw-Eco-	25401	Le Berre J R	22643	Leroy A M	23975	Linden P J	20888
T N		nomisch Insti-		Le Berre J R	22681	Leslie S	23082	van der	
Kuliev E A	19439	tut		Lebrun J	18629	Leslie W R	19308	Linden P J	20889
Kullenberg B	18849	Landerkin G B	20017			Leslie W R	19603	Lindenbauer M	22909
Kumm E	25463	Landesbauern-	25606			Lesperance R	25225	Lindenmuth A W	20745
Kummer H	21069	kammer				Lesse H de	22647	Jr	
Kummer H	22567	Schleswig-				Lester J	22033	Lindenmuth A W	20746
Kunkel A C	23840	Holstein				Letessier A	20938	Lindfors T	18506
Kunz F	25605	Landis C C	20037			Letkovskij A I	20744	Lindgren D L	19341
Kunz R	20448	Lando J C	23910			Letzig E	23408	Lindgren D L	22431
Kunze E E	24413	Landro C di	22241						
Kuon Cabello J	23407	Landro C di	22568						
Kuon Cabello J	25803	Landro O A di	21635						
		Landro O A di	22702						







	Item		Item		Item		Item		Item
Marriott P F	19387	Matthews C A	21528	Mendes H C	18902	Michigan State	25612	Minnigerode H G	24628
Marriott P F	19441	Matthews E M	20165	Mendes J E T	18303	College		Minut J	23754
Marsals P	24186	Matthews S	22373	Mendes J E T	19915	Michigan State	21180	Mira Izquierdo	24424
Marsden D H	18960	Matttoon H G	19619	Mendes L O T	22814	College		L	
Marsden I	24088	Mattson R	23936	Mendes L O T	22814	School of		Mirantz M	23083
Marsh M	19615	Mattsson J W	20747	Mendiola N B	19223	Veterinary		Mirchandani	20169
Marshall F F	24629	Mattsson R	23930	Mendlik F	23669	Medicine		R T	
Marshall H C	21662	Mattsson S	23792	Mendoza T M	20372	Mickel C E	22739	Misharev S	22127
Marshall L M	23207	Mattus G E	19388	Menon H B	19351	Mickwitz R	22494	Mishustin E N	18894
Marshall R E	23305	Maturana A	22374	Mensier P H	24701	Miczynski K	18310	Misner E G	25960
Marshall T J	19950	Matuura S	23537	Mentz N J	19865	Middlehoek A	18373	Missouri Off of	19269
Marshall T J	19951	Mauch A	25610	Mentzer C	18932	Middlekauff	22573	State Entomol-	
Martens P	18343	Maude H	21849	Méquignon A	22655	W W		ogist	
Martí Güell S E	21956	Maude H	21850	Mercer R	19015	Middlemist W B	25504		
Martin	23666	Maule J M	24527	Merchant C H	24241	Middleton G K	20168	Missouri State	24840
Martin Mrs A S	19616	Maurer A	23370	Mercier A	25611	Midwest Feed	23976	Seed Testing	
Martin C S	20506	Mauritius	19242	Mercier E	21599	Manufacturers		Laboratory	
Martin D J	19863	Mayeroff A	23715	Meredith W R	25101	Association			
Martin F	19914	Maw W A	21869	Meregalli A	21313	Feed Milling		Mitchell H H	25844
Martin G M	24264	Maxwell E	22084	Merfield A G	19267	Production		Mitchell H K	18966
Martin G R	25761	May C G	21851	Merkin I	24014	School		Mitchell J A B	24090
Martin H	22370	May J C	19054	Merkle F G	20076	Midwestern	23846	Mitchell M P	24528
Martin J A	19241	Mayer A	23391	Merkle F G	20167	Milk Marketing		Mitchener A V	22953
Martin J H	18502	Mayer H	22575	Merrill A H	25100	Conference		Mitscherlich A	20170
Martin J L	25530	Mayer K	22572	Merritt J S	19621	Miegroet M van	22735	Mitscherlich G	20690
Martin J P	19222	Mayer	25808	Mertens	21075	Mielke J L	22656	Miura T	25234
Martin R	20236	Marjorie J		Mertz E T	22217	Mikhaïlov P N	22096	Miyade H	25235
Martin R	23156	Mayer-Wegelin	20507	Meschini C	21987	Mikhalin I A	20509	Miyahara H	23360
Martin R	25609	H		Meschersfakov	18863	Miki S	18215	Miyake M	18867
Martin W H	25347	Mayes S H	21694	D P		Milano V A	18311	Miyamoto Y	22911
Martin W P	20163	Mayfield P B	20893	Meshkallo V M	20814	Milburn J	21315	Mode S	19624
Martin W W	21848	Mayhew R L	21495	Messersmith	21314	Miles I E	20390	Moeller H C	21662
Martin W W	25348	Mayhew R L	21496	F E		Miličić D	18356	Moen A	25978
Martin Lomeha	21178	Mayhew R L	21497	Mesu F P	20290	Miličić D	18666	Moen O	22182
S		Mayhew R L	21497	Mesu F P	25230	Millán J M	21181	Moericke V	22816
Martínez B J J	18707	Maynard E J	21397	Mészöly G	18864	Miller J A S	21675	Moest	22212
Martínez y	25467	Maynard H H	24237	Metayer M	24895	Miller A F	20390	Moewus F	18668
Sánchez Arjona		Mayo S C	25531	Metcalfe M E	20547	Miller A J	19622	Moewus F	18868
J M		Mayo S C	25544	Metcalfe R L	22375	Miller B	21958	Moir W W G	19224
Martini I	21957	Mayo Musso O	24700	Métro A	20713	Miller B R	21911	Mojá A	19139
Martini L P	23667	Mazzel J E	23668	Metson N K	25943	Miller C	22210	Mokashi V K	20183
Martinoli G	18663	Mazzel Patrone	18512	Meulemeester	24089	Miller D G	20925	Mokuzen H	21182
Martins A O	22371	I		de		Miller E	25809	Mol W E de	19625
Martinsson G	19617	Mead F	25783	Meulen J G J	24421	Miller E J	18965	Molchadskii S R	20714
Marts R O	21026	Mead H W	18397	van der		Miller F C	19623	Moldenke H N	18313
Martyn E J	22910	Meady G R W	19864	Mewis M	25231	Miller J	25678	Moldenke H N	18314
Marulanda	22372	Meadows G B	22203	Mexico Secre-	18709	Miller J C	22114	Moldenke H N	18315
Calcedo L		Medici G	25143	taria de Agri-		Miller J D	20815	Moldenke H N	19626
Marville R	25835	Medici M	22492	cultura y		Miller J H	21792	Molesworth R B	21317
Marx G W	20288	Medina D M	18664	Ganaderia		Miller J I	24639	Molfino J F	19916
Marzi	23750	Medina G	20166	Meybeck J	24075	Miller L D	21316	Molho D	18932
Mas R	22330	Meehan S M	19620	Meyer	20731	Miller L W	22574	Molinari E	19243
Mashtakov S M	18961	Meeuse A D J	24089	Meyer A B	20995	Miller M M	24991	Mol'kov V	24079
Maslennikov V	25229	Meffert M E	18513	Meyer A R	24644	Miller M M	24992	Mollem A van	24974
Mason A H	25521	Mehlisch K	18862	Meyer C	19268	Miller M M	25944	Möller E F	18869
Mason C M	19618	Mehner A	21886	Meyer F	24603	Miller P A	25583	Möller H	20786
Mason J P	23751	Mehring A L	20379	Meyer F	25788	Miller P R	18427	Möller M	21076
Massachusetts	25694	Meljere J C	22732	Meyer H	22493	Miller R B	20767	Molnár B	25121
State Grange		H de		Meyer H A	20951	Miller R C	22211	Molnár L	23172
Massé A	21312	Meijere J C	22733	Meyer J	18665	Miller R F	21888	Molledo G	20202
Mastrolalo	20956	H de		Meyer K F	21179	Miller R F	21889	Momberg-Jör-	21703
Carlin A		Meljerink W E	22958	Meyer T O	24574	Miller V L	21866	gensen H C	
Masuda S	23208	Meljers P G	19138	Mezerik A G	25232	Millet R S	20868	Monachino J V	18316
Masuhara T	25830	Meljers P G	23157	Miallet A	23051	Milligan C H	20291	Monatt S M	25102
Masui K	21494	Melsner F	24945	Mianli-Cala-		Milne-Redhead	18312	Moncrieff T E	24772
Mata E la	21437	Meistrell L	21695	brese D	20450	E		Moncrieff R W	19627
Matallana Ven-	23752	Meith H C	20289	Mfásnikov V Z	21707	Milne-Redhead	18667	Moncrieff R W	24091
tura S		Méjane J	24327	Mizdrikova	24328	E		Moncrieff R W	24092
Matallana	23753	Mejer E	24990	M N		Milner M	22377	Mondini P	25145
Ventura S		Mejla M	25144	Michael	23670	Milner M	24422	Monler-	23412
Mateu J	22653	Mejla Chávez J	25797	Michael G	19129	Milner M	24702	Williams	
Mathels H H	25942	Melander A L	22734	Michaelis P	18710	Milner R T	25977	Monro R F	25351
Mathew P C	24699	Melchert P	24627	Michaelis P	18711	Milo H A	21498	Monroe C F	21483
Mathias A C	22410	Melchior F B	24771	Michel E	22376	Milosević-	20578	Monson W J	21959
Mathias A F	22422	Jr		Michelbacher	22573	Brevinac M		Montagna A	25468
Mathieu H	20993	Melikhov P S	20508	A E		Minafra L	18957	Montagne R	25469
Mathot H J	24626	Melrose D R	21338	Michelmores	20057	Minard R	24946	Montana Dept of	25352
Mathur R N	22731	Meltzer J	22905	A P G		Minatta M J	22736	State Lands and	
Matskevich V B	19987	Memelink G	25349	Michet	25233	Minatta M J	22815	Investments	
Matson G J	20994	Menahem M	25386	Michigan Milk	23845	Mitauo	24423	Monteaux A	23931
Matsukawa K	22039	Mendenhall H D	25350	Producers As-		Delgado J		Montellano P	18514
Matsuki G	20164	Mendes A J T	18664	sociation		Mindreau G C	24896	Montenegro G	20700
Matsumoto K	21748	Mendes C H T	18708			Minjoz M	20350	E	
Matthaeas K	23127								



Item	Item	Item	Item	Item
Monter X 21696	Morrison E M 25404	Munshi D M 22985	National Con- 25616	Netswander R B 22385
Montero C M 21077	Morrison F B 23978	Munt A 19630	ference on 25616	Netswander R B 22817
Montgomery 22495	Morrison F O 22707	Muntz H H 20691	Rural Health 24773	Nelböck- 20579
Montgomery B E 22511	Morrison G 19792	Müntzing A 18670	National Egg 25764	Nelstetter H 18318
Montgomery G 25236	Morrison H 25923	Mura D 22163	Products 25764	Nelmes E 18319
Montgomery G A 21398	Morrison K J 19082	Murchison C T 24095	Association 22041	Nelmes E 18320
Montgomery 24897	Morrow L R 24445	Murchison C T 24096	National Egg 22041	Nelson D 20624
Montgomery J W 20292	Morrow R R 18972	Murdock O 23052	Products 22041	Nelson G T 23901
Montgrain C 20292	Morse R 20427	Muret A 23671	ers' Union 25355	Nelson J A 23884
Monti Grané J R 21499	Morse R 25471	Muro C J del C 20058	National Farm- 25355	Nelson J A 23885
Montilla E J C 24898	Morse R E 20019	Murphy E A 24817	ers' Union 25355	Nelson R T 25961
Montmagny C 22069	Morse W J 19206	Murphy E A 25846	Somerset 25355	Nelson T C 20657
de 22069	Morton D C 21349	Murphy F D 25615	County Br 25355	Nemchenko E 24098
Montoya A J 25403	Mos D de 19389	Murphy R P 19142	National Feder- 24187	Nero G del 23673
Moodie C D 19988	Mos D de 19793	Murphy W E 25354	ation of Fruit 24187	Nesbitt H H J 22576
Moody A B 20621	Mosby H S 18429	Murray P C 23979	and Potato 24187	Nes I 25104
Moor 18632	Mose P 23295	Murti V N 25762	Trades 24187	Netherlands 19020
Moor-Pankelow 19140	Moser A 20394	Murto J O 20957	National Hay 23980	Rijksinstituut 25237
A 19140	Moser H 22696	Musgrave R B 21071	Association 23980	nisterie van 25237
Moore A C 22040	Moses H E 21940	Müsemeler 21185	National Indus- 23499	Landbouw- 25237
Moore A Q 24425	Mosher K H 19628	Mutla C 19794	trial Conference 23499	wassen 25237
Moore C B 25146	Mosher R 19628	Muttoo R N 22497	Board 24256	Netherlands MI- 25237
Moore C B 25695	Moskwa Z 18756	Muttoo R N 22498	National Insti- 24256	Landbouw 25237
Moore E N 21960	Mosloff H 24899	Muttoo R N 22499	tute of Agri- 24256	Visserij en Voed- 25237
Moore H I 25353	Mossel D A A 24426	Muyzenberg 19390	cultural 24256	selvoorziening 25237
Moore J F 19734	Mostert W C 19141	E W B v d 21622	Engineering 23791	Netherlands 19021
Moore J F 19735	Mota F 24947	Myers B 21622	National Re- 23791	Rijksinstituut 19021
Moore J F 19753	Mott R C 19673	Myers M 25472	search Council 23870	voor Rassen- 25811
Moore J F 19754	Mott-Smith R H 24900	Myers W I 23502	National Re- 23870	onderzoek van 25811
Moore J F 19789	Mouat H G 24427	Myers W I 23503	search Council 25811	Landbouwge- 25811
Moore J F 19790	Moule G R 22162	Myers W I 23900	National Vita- 25811	wassen 25811
Moore J F 19791	Mounter L A 21903	Myers W I 25025	min Foundation 20351	Netherlands 19795
Moore J F 19816	Moura V 25435	Myraker L E 23932	Natividade J V 20351	Rijksinstituut 19795
Moore L A 21399	Moyer J 20237	Naarmann H 24818	Natrass R M 18515	voor Rassen- 19795
Moore L H 25879	Moyer J C 24329	Nagakura Y 21663	Natvig H 23883	Landbouwge- 19795
Moore R 21183	Mozambique Re- 23567	Nagasawa S 22658	Naundorf G 18873	wassen 19795
Moore R D 23977	partição Técni- 23567	Nagel J L 20732	Naundorf G 19918	Netherlands 19796
Moore R M 18970	ca de Estatística 23567	Nagel W 21501	Naundorf G 19919	Rijksinstituut 19796
Moore R R 20869	Mozina I 20870	Nagel W 21501	Navarro J 19633	voor Rassen- 19796
Moorehouse S 21749	Mpambani G F 22912	Naghsli J 24428	Naylor M D 24057	Landbouwge- 19796
Mora Dávila N 21184	Mrak E M 23703	Nai D D 22242	Naylor R W 23933	wassen 19796
Mora F R L 23403	Mrozek 25845	Naidu K S 25026	Ndamase M N 20173	Netherlands 19797
Morahan J M 24093	Muckley H R 20816	Naik K N 25264	Nebraska Leg- 25356	Rijksinstituut 19797
Morales C 22954	Mudaliar C R 18317	Nájera J 22575	islative Coun- 25356	voor Rassen- 19797
Morales Agacino 22955	Mühlow J 22657	Nakajima T 19631	Committee on 25356	Landbouwge- 19797
E 22955	Muhm D 25614	Nakamura K 20451	Educational 25356	wassen 19797
Morales Otero 21793	Muir R J S 24901	Nakamura T 20886	Lands and 25356	Netherlandsche 18374
P 21793	Muir R J S 24902	Nakanishi K 22972	Funds 25356	Akademie van 18374
Morandi M 20285	Mukerji B 19917	Nakano M 23414	Nebraska Leg- 25617	Wetenschappen 18374
Morandini E 25022	Mukherji D K 18669	Nakano M 23415	islative Coun- 25617	Centraalbur 18374
Mordkovich M S 19380	Muldal S 25880	Nakano M 23537	cil 25617	voor Schimmel- 18374
Morehouse D F 20253	Muldovan A 23847	Nakano M 24319	Committee on 25617	cultures 18374
Moreira S 18584	Mullen H H 20294	Nakano M 24429	Reorganization 25617	Neto J E de P 19970
Moreland D E 18971	Mullen L A 19109	Nakazima M 22382	of County 25617	Neuenschwander 22500
Morell M 25023	Müller A 20295	Nakazima M 22383	Government 25617	H 22500
Morgan A 20293	Müller A P 20171	Nakazima M 22384	Nechvatal W 21961	Neuhaus W 25882
Morgan G 25545	Müller A P 20172	Nalbandov A V 22243	Nedashkovski 23115	Neuhoff O 19270
Morgan T W 25612	Müller A P 20238	Naldini L 23701	A N 23115	Neuman J S 23674
Morhart H 21500	Müller A P 20238	Naldoni N 25763	Nedela K F 23981	Neuman R E 21962
Morimoto H 21078	Muller B 22380	Nanayakkara I P 19055	Nedelsch Ge- 25626	Neumann F 21401
Morimoto K 19016	Muller H 22496	Nankivell R J 23336	nootschap voor 25626	Neumann M 24774
Morimoto K 19017	Müller J 24094	Nannesson L 25406	Landbouwwe- 25626	Neumeister F 25473
Morin R A 20625	Müller 19018	Nanta 21664	tenschap 25626	Neves C M B 22386
Morini M 25470	Defradas R 19629	Naquin W P Jr 19225	Nederlands In- 25626	New Hampshire 25883
Morishita F 22277	Müller-Neapei 19629	Naranjo P 25881	stituut van 25626	Dept of Agri- 25883
Moritz F L 25953	W 18712	Naranjo Batmale 22115	Landbouw- 25626	culture 25883
Mork O 24841	Müller-Stoll 18712	F 22115	kundig 25626	New Jersey 24189
Morozov N A 20914	W R 20604	Narváez M I 18480	Ingenieurs 25626	State Potato 24189
Morozova-Vo- 18357	H 20604	Nathier M 24430	Neel L 19635	Association 24189
danišskaf N V 18357	Mullins R L 25024	National Assoc- 23306	Neenan J L 24431	Industry Com- 24189
Morrey J S 21400	Mumford D C 25390	iation of Silo 23306	Neergaard P 18516	mittee 24189
Morrill C C 21855	Mumford D C 25405	Manufacturers 24097	Neethling L J 18611	New South Wales 18391
Morris A 25103	Münchberg P 22381	National Board 24097	Neff M S 19920	Dept of 18391
Morris B 22085	Muniz A I 25831	of Fire Under- 24097	Negovski N A 18714	Agriculture 18391
Morris C S 23085	Muñoz J M 18713	writers 24097	Negre E 24703	New South Wales 18430
Morris J A 21794	Muñoz Venegas 20673	National Coffee 23672	Nehring K 19019	Dept of Agricul- 18430
Morris J S 20102	Munro J A 22913	Association 23672	Nehring K 21079	ture 18430
Morris W E 21600	Munsell H E 23413			
Morrison C 22378				



Item	Item	Item	Item	Item
New South Wales 18517 Dept of Agriculture	Newman H L 22915 Newton N T 19636 Newton R G 24816 Nibler C W 21318 Nibler C W 21402 Nicaragua Serv 25884 Técnico Agrícola	Nordgaard K 19798 Nordmann 19443 Norén O 23179 Norén O 23180 Norrie W 18875 Norris C A 24101 Norris L C 21875 Norris L C 21888 Norris L C 21889 Norris L C 21890 North A D 22268 North A D 23258 North Dakota 23568 Dept of Agriculture and Labor	Ohio State University 25303 Dept of Rural Economics and Rural Sociology Ohio Vegetable and Potato Growers Association 19800 Ohl J J 19644 Ohlson N E 23128 Ohno M 22336 Ohno M 22388 Oistrach 20871 Stabenau G 22336 Owa T 22383 Owa T 22388 Okami Y 18218 Oklahoma Production Adjustments Committee 25241 Oksa E 20800 Oksa E 23053 Oksa E 23054 Oksa E 23087 Oksa E 23209 Okubo T 22382 Olafson G 19312 Olberg G 18219 Olcese O 22086 Ol'denborger 21795 A A 19313 Oldfield J 22502 Oleynik A P 21891 Oleson J J 22503 Olwenstam E 18432 Olgyay M 20078 Oliva A 20179 Oliva G 21189 Olivares J 24705 Oliveira J V de 24706 Oliver E 20974 Oliveros S B 23055 Olofsson N E 22213 Olson B 23283 Olsens (J E) 18433 Enke Plantepatologiske Laboratorium 23934 Olson H C 21963 Olson N O 23538 Olson R E 20875 Olsson W Z 22042 Olsson T 23935 Olvera 21964 Herrera M 22819 Omer-Cooper J 24336 Omura M 22043 Onca A da 24330 Onnes H J 21750 Ontario Dept of Agriculture 20180 Stallion Enrolment Board 25986 Oobuchi S 19444 Oosten A van 20296 Opazo G A 19391 Opheusden A S te 24966 Oppenheim R 24605 Oppermann M 20005 Ördögh F 24371 Oregon Wheat Commission 24434 Oregon Wheat Commission 21320 Orensanz J	Orensanz M 21601 liné J 23677 Orizet L 23678 Orizet L 22164 Orlov I V 19801 Orman A C 19920 O'Rourke E N Jr 22860 O'Rourke F J 21081 Orr C 19952 Orr C Jr 24102 Orr C W 22116 Ortavant R 21190 Ortiz G G 25411 Ortiz Maldonado R J 21502 Orum A M 24643 Orvold L W 21965 Osebold J W 23259 Osse L 25618 Osteen J M 21321 Østergaard P S 18673 Østergren G 20181 Österreichisches Institut für Wirtschaftsforschung 23569 Österreichisches Institut für Wirtschaftsforschung 20927 Osterwald H 22214 Østlie S 22790 Osvold C V 22389 Otanes F Q 21191 Atárola Salcedo G 25242 Otero L 24250 Otten C J 24630 Otto G 25505 Otto M L 19867 Ouchterlony K 20902 Ovchinnikov B F 19144 Ovchinnikova 22240 L M 22504 Ovechkin N M 18977 Ovechkin S K 21130 Ovejero del Agua S 19314 Overley F L 19802 Oversacq J 21816 Owen M 20182 Oxer V T 25619 Øye A 18978 Ozerov G V
New South Wales 18518 Dept of Agriculture	Nicholas R B 25066 Nichols D E 20901 Nichols H E 19311 Nichols H E 25410 Nichols I E 21319 Nicholson A 23006 Nicholson H P 22739 Nichter A M 25067 Nichter A M 25105 Nickell L G 18874 Nicolas G 22818 Niederehe H 24604 Niederhauser J S 18521	Nordmann 19443 Norén O 23179 Norén O 23180 Norrie W 18875 Norris C A 24101 Norris L C 21875 Norris L C 21888 Norris L C 21889 Norris L C 21890 North A D 22268 North A D 23258 North Dakota 23568 Dept of Agriculture and Labor 24981 Northern Great Plains Tenure Committee 25885 Northwest Conference on Road Building 20787 Northwestern Lumbermens Association 24842 Norway Landbruksdept 22501 Nosachenko V 18715 Novick A 19799 Novikoff V A 20021 Novogrudskii D M 23982 Noxon M M 20926 Nozu R 19271 Nubourgh Y 18599 Nutman F J 21665 Numans S R 21666 Nursery & Market Garden Industries' Development Society 19272 Experimental and Research Station 20748 Nutting A D 21188 Nuzzi A F 18697 Nybom N 18876 Nybo M 25721 Nye I 18672 Nygren A 20715 Nyholm 20716 Nyholm I 19866 Nys P F de 19990 Nystrom P E 24644	Ohio State University 25303 Dept of Rural Economics and Rural Sociology Ohio Vegetable and Potato Growers Association 19800 Ohl J J 19644 Ohlson N E 23128 Ohno M 22336 Ohno M 22388 Oistrach 20871 Stabenau G 22336 Owa T 22383 Owa T 22388 Okami Y 18218 Oklahoma Production Adjustments Committee 25241 Oksa E 20800 Oksa E 23053 Oksa E 23054 Oksa E 23087 Oksa E 23209 Okubo T 22382 Olafson G 19312 Olberg G 18219 Olcese O 22086 Ol'denborger 21795 A A 19313 Oldfield J 22502 Oleynik A P 21891 Oleson J J 22503 Olwenstam E 18432 Olgyay M 20078 Oliva A 20179 Oliva G 21189 Olivares J 24705 Oliveira J V de 24706 Oliver E 20974 Oliveros S B 23055 Olofsson N E 22213 Olson B 23283 Olsens (J E) 18433 Enke Plantepatologiske Laboratorium 23934 Olson H C 21963 Olson N O 23538 Olson R E 20875 Olsson W Z 22042 Olsson T 23935 Olvera 21964 Herrera M 22819 Omer-Cooper J 24336 Omura M 22043 Onca A da 24330 Onnes H J 21750 Ontario Dept of Agriculture 20180 Stallion Enrolment Board 25986 Oobuchi S 19444 Oosten A van 20296 Opazo G A 19391 Opheusden A S te 24966 Oppenheim R 24605 Oppermann M 20005 Ördögh F 24371 Oregon Wheat Commission 24434 Oregon Wheat Commission 21320 Orensanz J	Orensanz M 21601 liné J 23677 Orizet L 23678 Orizet L 22164 Orlov I V 19801 Orman A C 19920 O'Rourke E N Jr 22860 O'Rourke F J 21081 Orr C 19952 Orr C Jr 24102 Orr C W 22116 Ortavant R 21190 Ortiz G G 25411 Ortiz Maldonado R J 21502 Orum A M 24643 Orvold L W 21965 Osebold J W 23259 Osse L 25618 Osteen J M 21321 Østergaard P S 18673 Østergren G 20181 Österreichisches Institut für Wirtschaftsforschung 23569 Österreichisches Institut für Wirtschaftsforschung 20927 Osterwald H 22214 Østlie S 22790 Osvold C V 22389 Otanes F Q 21191 Atárola Salcedo G 25242 Otero L 24250 Otten C J 24630 Otto G 25505 Otto M L 19867 Ouchterlony K 20902 Ovchinnikov B F 19144 Ovchinnikova 22240 L M 22504 Ovechkin N M 18977 Ovechkin S K 21130 Ovejero del Agua S 19314 Overley F L 19802 Oversacq J 21816 Owen M 20182 Oxer V T 25619 Øye A 18978 Ozerov G V
New South Wales 22957 Dept of Agriculture	Niehaus H 25239 Niehuis 25474 Nieland L T 20622 Nielsen C G G 21080 Nielsen C G G 23307 Nielsen H 18431 Nielsen T 23675 Nieman C 23794 Niemenmaa H 20452 Nier F M 20556 Nieser O 18958 Nigeria Veterinary Dept 21187	Nordmann 19443 Norén O 23179 Norén O 23180 Norrie W 18875 Norris C A 24101 Norris L C 21875 Norris L C 21888 Norris L C 21889 Norris L C 21890 North A D 22268 North A D 23258 North Dakota 23568 Dept of Agriculture and Labor 24981 Northern Great Plains Tenure Committee 25885 Northwest Conference on Road Building 20787 Northwestern Lumbermens Association 24842 Norway Landbruksdept 22501 Nosachenko V 18715 Novick A 19799 Novikoff V A 20021 Novogrudskii D M 23982 Noxon M M 20926 Nozu R 19271 Nubourgh Y 18599 Nutman F J 21665 Numans S R 21666 Nursery & Market Garden Industries' Development Society 19272 Experimental and Research Station 20748 Nutting A D 21188 Nuzzi A F 18697 Nybom N 18876 Nybo M 25721 Nye I 18672 Nygren A 20715 Nyholm 20716 Nyholm I 19866 Nys P F de 19990 Nystrom P E 24644	Ohio State University 25303 Dept of Rural Economics and Rural Sociology Ohio Vegetable and Potato Growers Association 19800 Ohl J J 19644 Ohlson N E 23128 Ohno M 22336 Ohno M 22388 Oistrach 20871 Stabenau G 22336 Owa T 22383 Owa T 22388 Okami Y 18218 Oklahoma Production Adjustments Committee 25241 Oksa E 20800 Oksa E 23053 Oksa E 23054 Oksa E 23087 Oksa E 23209 Okubo T 22382 Olafson G 19312 Olberg G 18219 Olcese O 22086 Ol'denborger 21795 A A 19313 Oldfield J 22502 Oleynik A P 21891 Oleson J J 22503 Olwenstam E 18432 Olgyay M 20078 Oliva A 20179 Oliva G 21189 Olivares J 24705 Oliveira J V de 24706 Oliver E 20974 Oliveros S B 23055 Olofsson N E 22213 Olson B 23283 Olsens (J E) 18433 Enke Plantepatologiske Laboratorium 23934 Olson H C 21963 Olson N O 23538 Olson R E 20875 Olsson W Z 22042 Olsson T 23935 Olvera 21964 Herrera M 22819 Omer-Cooper J 24336 Omura M 22043 Onca A da 24330 Onnes H J 21750 Ontario Dept of Agriculture 20180 Stallion Enrolment Board 25986 Oobuchi S 19444 Oosten A van 20296 Opazo G A 19391 Opheusden A S te 24966 Oppenheim R 24605 Oppermann M 20005 Ördögh F 24371 Oregon Wheat Commission 24434 Oregon Wheat Commission 21320 Orensanz J	Orensanz M 21601 liné J 23677 Orizet L 23678 Orizet L 22164 Orlov I V 19801 Orman A C 19920 O'Rourke E N Jr 22860 O'Rourke F J 21081 Orr C 19952 Orr C Jr 24102 Orr C W 22116 Ortavant R 21190 Ortiz G G 25411 Ortiz Maldonado R J 21502 Orum A M 24643 Orvold L W 21965 Osebold J W 23259 Osse L 25618 Osteen J M 21321 Østergaard P S 18673 Østergren G 20181 Österreichisches Institut für Wirtschaftsforschung 23569 Österreichisches Institut für Wirtschaftsforschung 20927 Osterwald H 22214 Østlie S 22790 Osvold C V 22389 Otanes F Q 21191 Atárola Salcedo G 25242 Otero L 24250 Otten C J 24630 Otto G 25505 Otto M L 19867 Ouchterlony K 20902 Ovchinnikov B F 19144 Ovchinnikova 22240 L M 22504 Ovechkin N M 18977 Ovechkin S K 21130 Ovejero del Agua S 19314 Overley F L 19802 Oversacq J 21816 Owen M 20182 Oxer V T 25619 Øye A 18978 Ozerov G V
New South Wales 22387 Dept of Agriculture Entomological Br	Nier F M 20556 Nieser O 18958 Nigeria Veterinary Dept 21187	Nordmann 19443 Norén O 23179 Norén O 23180 Norrie W 18875 Norris C A 24101 Norris L C 21875 Norris L C 21888 Norris L C 21889 Norris L C 21890 North A D 22268 North A D 23258 North Dakota 23568 Dept of Agriculture and Labor 24981 Northern Great Plains Tenure Committee 25885 Northwest Conference on Road Building 20787 Northwestern Lumbermens Association 24842 Norway Landbruksdept 22501 Nosachenko V 18715 Novick A 19799 Novikoff V A 20021 Novogrudskii D M 23982 Noxon M M 20926 Nozu R 19271 Nubourgh Y 18599 Nutman F J 21665 Numans S R 21666 Nursery & Market Garden Industries' Development Society 19272 Experimental and Research Station 20748 Nutting A D 21188 Nuzzi A F 18697 Nybom N 18876 Nybo M 25721 Nye I 18672 Nygren A 20715 Nyholm 20716 Nyholm I 19866 Nys P F de 19990 Nystrom P E 24644	Ohio State University 25303 Dept of Rural Economics and Rural Sociology Ohio Vegetable and Potato Growers Association 19800 Ohl J J 19644 Ohlson N E 23128 Ohno M 22336 Ohno M 22388 Oistrach 20871 Stabenau G 22336 Owa T 22383 Owa T 22388 Okami Y 18218 Oklahoma Production Adjustments Committee 25241 Oksa E 20800 Oksa E 23053 Oksa E 23054 Oksa E 23087 Oksa E 23209 Okubo T 22382 Olafson G 19312 Olberg G 18219 Olcese O 22086 Ol'denborger 21795 A A 19313 Oldfield J 22502 Oleynik A P 21891 Oleson J J 22503 Olwenstam E 18432 Olgyay M 20078 Oliva A 20179 Oliva G 21189 Olivares J 24705 Oliveira J V de 24706 Oliver E 20974 Oliveros S B 23055 Olofsson N E 22213 Olson B 23283 Olsens (J E) 18433 Enke Plantepatologiske Laboratorium 23934 Olson H C 21963 Olson N O 23538 Olson R E 20875 Olsson W Z 22042 Olsson T 23935 Olvera 21964 Herrera M 22819 Omer-Cooper J 24336 Omura M 22043 Onca A da 24330 Onnes H J 21750 Ontario Dept of Agriculture 20180 Stallion Enrolment Board 25986 Oobuchi S 19444 Oosten A van 20296 Opazo G A 19391 Opheusden A S te 24966 Oppenheim R 24605 Oppermann M 20005 Ördögh F 24371 Oregon Wheat Commission 24434 Oregon Wheat Commission 21320 Orensanz J	Orensanz M 21601 liné J 23677 Orizet L 23678 Orizet L 22164 Orlov I V 19801 Orman A C 19920 O'Rourke E N Jr 22860 O'Rourke F J 21081 Orr C 19952 Orr C Jr 24102 Orr C W 22116 Ortavant R 21190 Ortiz G G 25411 Ortiz Maldonado R J 21502 Orum A M 24643 Orvold L W 21965 Osebold J W 23259 Osse L 25618 Osteen J M 21321 Østergaard P S 18673 Østergren G 20181 Österreichisches Institut für Wirtschaftsforschung 23569 Österreichisches Institut für Wirtschaftsforschung 20927 Osterwald H 22214 Østlie S 22790 Osvold C V 22389 Otanes F Q 21191 Atárola Salcedo G 25242 Otero L 24250 Otten C J 24630 Otto G 25505 Otto M L 19867 Ouchterlony K 20902 Ovchinnikov B F 19144 Ovchinnikova 22240 L M 22504 Ovechkin N M 18977 Ovechkin S K 21130 Ovejero del Agua S 19314 Overley F L 19802 Oversacq J 21816 Owen M 20182 Oxer V T 25619 Øye A 18978 Ozerov G V
New South Wales 22737 Dept of Agriculture Entomological Br	Niggl R 20511 Nigrelli R F 18933 Nihei T 24432 Niimura T 22916 Nijveldt W 22659 Nikitin B M 18861 Nikitin V P 25980 Nikkilä O E 24965 Niklitschek A 19637 Niklitschek A 19638 Niklitschek A 20020 Niklitschek A 20176	Nordmann 19443 Norén O 23179 Norén O 23180 Norrie W 18875 Norris C A 24101 Norris L C 21875 Norris L C 21888 Norris L C 21889 Norris L C 21890 North A D 22268 North A D 23258 North Dakota 23568 Dept of Agriculture and Labor 24981 Northern Great Plains Tenure Committee 25885 Northwest Conference on Road Building 20787 Northwestern Lumbermens Association 24842 Norway Landbruksdept 22501 Nosachenko V 18715 Novick A 19799 Novikoff V A 20021 Novogrudskii D M 23982 Noxon M M 20926 Nozu R 19271 Nubourgh Y 18599 Nutman F J 21665 Numans S R 21666 Nursery & Market Garden Industries' Development Society 19272 Experimental and Research Station 20748 Nutting A D 21188 Nuzzi A F 18697 Nybom N 18876 Nybo M 25721 Nye I 18672 Nygren A 20715 Nyholm 20716 Nyholm I 19866 Nys P F de 19990 Nystrom P E 24644	Ohio State University 25303 Dept of Rural Economics and Rural Sociology Ohio Vegetable and Potato Growers Association 19800 Ohl J J 19644 Ohlson N E 23128 Ohno M 22336 Ohno M 22388 Oistrach 20871 Stabenau G 22336 Owa T 22383 Owa T 22388 Okami Y 18218 Oklahoma Production Adjustments Committee 25241 Oksa E 20800 Oksa E 23053 Oksa E 23054 Oksa E 23087 Oksa E 23209 Okubo T 22382 Olafson G 19312 Olberg G 18219 Olcese O 22086 Ol'denborger 21795 A A 19313 Oldfield J 22502 Oleynik A P 21891 Oleson J J 22503 Olwenstam E 18432 Olgyay M 20078 Oliva A 20179 Oliva G 21189 Olivares J 24705 Oliveira J V de 24706 Oliver E 20974 Oliveros S B 23055 Olofsson N E 22213 Olson B 23283 Olsens (J E) 18433 Enke Plantepatologiske Laboratorium 23934 Olson H C 21963 Olson N O 23538 Olson R E 20875 Olsson W Z 22042 Olsson T 23935 Olvera 21964 Herrera M 22819 Omer-Cooper J 24336 Omura M 22043 Onca A da 24330 Onnes H J 21750 Ontario Dept of Agriculture 20180 Stallion Enrolment Board 25986 Oobuchi S 19444 Oosten A van 20296 Opazo G A 19391 Opheusden A S te 24966 Oppenheim R 24605 Oppermann M 20005 Ördögh F 24371 Oregon Wheat Commission 24434 Oregon Wheat Commission 21320 Orensanz J	Orensanz M 21601 liné J 23677 Orizet L 23678 Orizet L 22164 Orlov I V 19801 Orman A C 19920 O'Rourke E N Jr 22860 O'Rourke F J 21081 Orr C 19952 Orr C Jr 24102 Orr C W 22116 Ortavant R 21190 Ortiz G G 25411 Ortiz Maldonado R J 21502 Orum A M 24643 Orvold L W 21965 Osebold J W 23259 Osse L 25618 Osteen J M 21321 Østergaard P S 18673 Østergren G 20181 Österreichisches Institut für Wirtschaftsforschung 23569 Österreichisches Institut für Wirtschaftsforschung 20927 Osterwald H 22214 Østlie S 22790 Osvold C V 22389 Otanes F Q 21191 Atárola Salcedo G 25242 Otero L 24250 Otten C J 24630 Otto G 25505 Otto M L 19867 Ouchterlony K 20902 Ovchinnikov B F 19144 Ovchinnikova 22240 L M 22504 Ovechkin N M 18977 Ovechkin S K 21130 Ovejero del Agua S 19314 Overley F L 19802 Oversacq J 21816 Owen M 20182 Oxer V T 25619 Øye A 18978 Ozerov G V
New York State 24222 College of Agriculture	Nilsson A 19639 Nilsson A 19640 Nilsson A 19641 Nilsson A 19642 Nilsson A 19643 Nilsson A S 19244 Nilsson A S 25240 Nimmo C C 24318 Nishimoto K 20886 Nishimura K 18237 Nitzsche M 18855 Niven C F Jr 24637 Niven L A 19442 Nixon R W 19352 Nixon W M 19143 Njegovan M 18683 Noble E I 24100 Noble W 20408 Noggle G R 18944 Noggle G R 19989 Nogtev V P 18671 Nogueira-Neto P 22859	Nordmann 19443 Norén O 23179 Norén O 23180 Norrie W 18875 Norris C A 24101 Norris L C 21875 Norris L C 21888 Norris L C 21889 Norris L C 21890 North A D 22268 North A D 23258 North Dakota 23568 Dept of Agriculture and Labor 24981 Northern Great Plains Tenure Committee 25885 Northwest Conference on Road Building 20787 Northwestern Lumbermens Association 24842 Norway Landbruksdept 22501 Nosachenko V 18715 Novick A 19799 Novikoff V A 20021 Novogrudskii D M 23982 Noxon M M 20926 Nozu R 19271 Nubourgh Y 18599 Nutman F J 21665 Numans S R 21666 Nursery & Market Garden Industries' Development Society 19272 Experimental and Research Station 20748 Nutting A D 21188 Nuzzi A F 18697 Nybom N 18876 Nybo M 25721 Nye I 18672 Nygren A 20715 Nyholm 20716 Nyholm I 19866 Nys P F de 19990 Nystrom P E 24644	Ohio State University 25303 Dept of Rural Economics and Rural Sociology Ohio Vegetable and Potato Growers Association 19800 Ohl J J 19644 Ohlson N E 23128 Ohno M 22336 Ohno M 22388 Oistrach 20871 Stabenau G 22336 Owa T 22383 Owa T 22388 Okami Y 18218 Oklahoma Production Adjustments Committee 25241 Oksa E 20800 Oksa E 23053 Oksa E 23054 Oksa E 23087 Oksa E 23209 Okubo T 22382 Olafson G 19312 Olberg G 18219 Olcese O 22086 Ol'denborger 21795 A A 19313 Oldfield J 22502 Oleynik A P 21891 Oleson J J 22503 Olwenstam E 18432 Olgyay M 20078 Oliva A 20179 Oliva G 21189 Olivares J 24705 Oliveira J V de 24706 Oliver E 20974 Oliveros S B 23055 Olofsson N E 22213 Olson B 23283 Olsens (J E) 18433 Enke Plantepatologiske Laboratorium 23934 Olson H C 21963 Olson N O 23538 Olson R E 20875 Olsson W Z 22042 Olsson T 23935 Olvera 21964 Herrera M 22819 Omer-Cooper J 24336 Omura M 22043 Onca A da 24330 Onnes H J 21750 Ontario Dept of Agriculture 20180 Stallion Enrolment Board 25986 Oobuchi S 19444 Oosten A van 20296 Opazo G A 19391 Opheusden A S te 24966 Oppenheim R 24605 Oppermann M 20005 Ördögh F 24371 Oregon Wheat Commission 24434 Oregon Wheat Commission 21320 Orensanz J	Orensanz M 21601 liné J 23677 Orizet L 23678 Orizet L 22164 Orlov I V 19801 Orman A C 19920 O'Rourke E N Jr 22860 O'Rourke F J 21081 Orr C 19952 Orr C Jr 24102 Orr C W 22116 Ortavant R 21190 Ortiz G G 25411 Ortiz Maldonado R J 21502 Orum A M 24643 Orvold L W 21965 Osebold J W 23259 Osse L 25618 Osteen J M 21321 Østergaard P S 18673 Østergren G 20181 Österreichisches Institut für Wirtschaftsforschung 23569 Österreichisches Institut für Wirtschaftsforschung 20927 Osterwald H 22214 Østlie S 22790 Osvold C V 22389 Otanes F Q 21191 Atárola Salcedo G 25242 Otero L 24250 Otten C J 24630 Otto G 25505 Otto M L 19867 Ouchterlony K 20902 Ovchinnikov B F 19144 Ovchinnikova 22240 L M 22504 Ovechkin N M 18977 Ovechkin S K 21130 Ovejero del Agua S 19314 Overley F L 19802 Oversacq J 21816 Owen M 20182 Oxer V T 25619 Øye A 18978 Ozerov G V
New York State 24099 Exchange	Nilsson A 19639 Nilsson A 19640 Nilsson A 19641 Nilsson A 19642 Nilsson A 19643 Nilsson A S 19244 Nilsson A S 25240 Nimmo C C 24318 Nishimoto K 20886 Nishimura K 18237 Nitzsche M 18855 Niven C F Jr 24637 Niven L A 19442 Nixon R W 19352 Nixon W M 19143 Njegovan M 18683 Noble E I 24100 Noble W 20408 Noggle G R 18944 Noggle G R 19989 Nogtev V P 18671 Nogueira-Neto P 22859	Nordmann 19443 Norén O 23179 Norén O 23180 Norrie W 18875 Norris C A 24101 Norris L C 21875 Norris L C 21888 Norris L C 21889 Norris L C 21890 North A D 22268 North A D 23258 North Dakota 23568 Dept of Agriculture and Labor 24981 Northern Great Plains Tenure Committee 25885 Northwest Conference on Road Building 20787 Northwestern Lumbermens Association 24842 Norway Landbruksdept 22501 Nosachenko V 18715 Novick A 19799 Novikoff V A 20021 Novogrudskii D M 23982 Noxon M M 20926 Nozu R 19271 Nubourgh Y 18599 Nutman F J 21665 Numans S R 21666 Nursery & Market Garden Industries' Development Society 19272 Experimental and Research Station 20748 Nutting A D 21188 Nuzzi A F 18697 Nybom N 18876 Nybo M 25721 Nye I 18672 Nygren A 20715 Nyholm 20716 Nyholm I 19866 Nys P F de 19990 Nystrom P E 24644	Ohio State University 25303 Dept of Rural Economics and Rural Sociology Ohio Vegetable and Potato Growers Association 19800 Ohl J J 19644 Ohlson N E 23128 Ohno M 22336 Ohno M 22388 Oistrach 20871 Stabenau G 22336 Owa T 22383 Owa T 22388 Okami Y 18218 Oklahoma Production Adjustments Committee 25241 Oksa E 20800 Oksa E 23053	



Item	Item	Item	Item	Item
Paleni A 24708	Paul C V 23008	Perolahti O 20957	Pic M 22665	Pollock S 21668
Paleni A 24709	Paul H F 18435	Perón J D Pres 25245	Pic M 22666	Polovenko I S 19924
Paletta K 22918	Paul S 22117	Argentine Re-public 21142	Picard A J 23684	Polunin I A I A 19718
Pallotta F 23210	Paul S M 21142	Perotti R M 22014	Picard J 22920	Polzer A de 20079
Palmer C B 19146	Paulson W E 23134	Perotti R M 22578	Picard R 23211	Pomar L M 25247
Palmer E 19803	Paulson W E 24151	Perret-Maison-neuve A 22508	Picasso Vicent A 24948	Pomeroy B A 23843
Palmer E 20453	Pausch A B 19650	Perrot G 21145	Pichler F 18524	Pomeroy B S 21970
Palmer E L 25887	Pavcek P L 23539	Perry A L 24241	Pickard G E 23106	Pomeroy R W 21323
Palmgård A 19646	Pavlov A N 18978	Perry G S 21255	Pickett J T 19316	Pompei M 25480
Panarin M N 20297	Pavlov P 22577	Perry R A 23757	Pickles S S 24820	Pompei M 25525
Pankova N A 19992	Payva Carbajal C A 23400	Perry T D 20928	Picota E 24438	Pond G A 25300
Panov A 20718	Payva Carbajal C A 23416	Persall C 21667	Piedra K 24906	Pons Muzzo J 21194
Panov M A 19804	Peace E J 25537	Persell R M 24714	R de la 18633	Ponsignon M 21852
Panse V G 20183	Peake R W 18397	Pershina M N 20059	Piemelsel R L 24769	Pope L S 22119
Pansey A W 24114	Pearce E L 19651	Pervov A 24104	Pierce E C 25412	Popken G 24484
Pant G D 22919	Pearce E T S 24905	Peru Dirección General de Agricultura 22391	Pierce W H 25030	Popkov A G 20469
Papazian H P 18717	Pearce G W 22390	Peruchon J 21967	Pierrain J 20186	Poppelbaum H 20080
Papi G U 23376	Pearson A M 24530	Peryam D R 23431	Pierrot E 18165	Porpáczy A 18814
Papin J 23755	Pearson C C 21504	Peschaut R 22663	Pierrot E 18221	Porres C A 23090
Papp E 21503	Pearson F A 23502	Pesman M W 19654	Pierson E 25357	Porter C R 24843
Parades C A 18252	Pearson F A 23503	Pesman M W 19655	Pierson R 24843	Porter R M 21441
Paraf 21175	Pearson O 19805	Pessi V 23089	Pieters A J 19148	Porter W L 24428
Paraf A 21788	Peat S 23392	Pestal E 20917	Pigulevskii S V 22741	Porteres R 19028
Parcher E S 19647	Pedersen A 19471	Pestal E 20918	Pike H H & Son 24907	Porteres R 25924
Parcher E S 20428	Pedersen P N 21603	Pestel H 23680	Pilcher H L 25812	Portfánko V F 19029
Pareja Eguez O 24436	Pedersen K 25147	Petek M 21193	Pillal A R 25699	Portier G 22681
Pareja Eguez O 25620	Pedersen O B 25621	Peter C J 23546	Pillal R V R 23455	Portocarrero J N 20301
Pareja Eguez O 25847	Pederson C S 24210	Peterman J E 22168	Pillsbury A F 20300	Portugal Instituto Nacional de Estadística 23540
Parenton V J 25532	Pederson C S 24322	Petersen W E 21441	Pinazzi C 24821	Portugal Instituto Nacional de Estadística 23571
Parham A P 21408	Pederson C S 24332	Peterson H B 20184	Pinca D 25477	Portugal Instituto Nacional de Estadística 25108
Parigi G 23512	Pedotti E 20512	Peterson H B 20185	Pinca D 25524	Portugal Instituto Nacional de Estadística 25108
Parisi O 24529	Peel I 23756	Peterson J E 21968	Pingrey H B 21604	Post J J 23532
Pariset A 24710	Peele F E 21893	Peterson M L 18937	Pingry W 25623	Post R E 24440
Parker J R 25243	Peele F E 24775	Peterson R W 20960	Pini P L 25359	Post R L 22287
Parker M 18220	Peele T C 19953	Peterson S 21721	Piñón J C 21786	Potapenko I A I 18439
Parkhomenko S 20298	Peer R 19652	Petitlaurent V 25068	Pinska E 18732	Potapenko I A I 19447
Parkin I E 23088	Peeters F J 19653	Petransxiene D 23785	Pipan R 20637	Potapov Kh E 25360
Parkin T E 24437	Peavy W L 20038	Petransxiene D 23786	Piper W E 23456	Potter C 22365
Parks R R 21966	Peker K 24240	Petri L H 22959	Piquemal A 22668	Potter L D 22921
Parks T H 22662	Pelkwijs A J 18260	Petrini S 20602	Piquer G 19317	Pottlinger S R 24967
Parlby I 24331	Pelkwijs A J 19446	Petrocchi A 22777	Pirle N W 18575	Potts R C 19113
Parmenter R 19648	Pellegrin R J 25532	Petrochenko E I 24211	Pirle N W 18934	Potts R C 19149
Parmentier P 24239	Pellet F C 22506	Petrov G I 20719	Pirovano A 24276	Potts S F 23173
Parnas J 21192	Pelshenke P F 23417	Petrov S 20514	Pisek A 18880	Poudroux J 24441
Parnes I 24903	Peltola E 23795	Petschk H 23681	Pissot P 25246	Poulsen J F 21405
Parnes I 24904	Peltola E 23936	Pette J W 23937	Pistor W J 21404	Poultry Association of Gt Brit 21971
Parodneck M 23886	Pemberton R 22194	Pettinga J J 18523	Pizarroso 19922	Poundstone B 23983
Parreira A M 23679	Penafiel J 20299	Petzsch H 25889	Cuenca A 23758	Pourtauborde J 20302
Parriaud H 18349	Penaloza M A 25028	Pexton L M 24614	Pizzi G 23758	Powell S M 21324
Parris G K 18522	Pennsylvania 23570	Peyer E 23682	Plaas 21506	Powell-Owen W 22044
Parrish F T 20939	Penny J M 18961	Peyer E 23683	Plager C 24531	Powers E C 23361
Parry G 21892	Penny J M 19023	Peyrouse G 25622	Plagnat F 18437	Powers F 23541
Parry H J 22087	Pentegova V A 21027	Peyton G W 19656	Plaine H L 22711	Powers J J 20019
Parry J 19649	Pénzes A 18321	Pfaffl E 23796	Planchart A 25813	Powers L 18222
Parry-Jones E 22286	Pénzes A 18322	Pfau J H 24105	Planckh 22509	Pozo Pelayo C del 21605
Parsons F L 25048	Percival E G V 18933	Pfeiffer E E 20039	Plank H K 19755	Pozzi-Escot M E 18525
Parsons F L 25244	Percival G M 24776	Pfeiffer H H 18674	Plateau H 20353	Pozzi-Escot M E 19993
Parten E M 19353	Perdomo R S 21513	Pfeiffer N B 20352	Platt A W 22842	Pozzi-Escot M E 19994
Parvin D W 23501	Perdue W 23898	Pfeiffer R 19024	Platt A W 22862	Pozzi-Escot M E 19995
Pascual J A 25697	Peregon I L 22118	Philipp B 21969	Platzter H B 20605	Pozzi-Escot M E 20396
Passos H de G 19921	Perel'dik N SH 21707	Phillips P E 25107	Playskif G E 19014	Pozzi-Escot M E 20429
Pastac I 19868	Perez G R 24712	Phillips F H 24242	Plevoets C 24439	Pozzi-Escot M E 23797
Pastac I 20395	Perez J 22507	Phillips G A R 19657	Plinka A D 19806	Pozzi-Escot M E 23798
Pastor Bog-giano M 19226	Perez-Valverde I 20431	Phillips G W M 24297	Plow R 20903	Pozzi-Escot M E 23798
Pastorini F M 19345	Pérez Lavielle G 25029	Phillips J F 25476	Pluyette J 25478	Praetorius F K 23686
Pastorini F M 25106	Pérez Noble C 23800	Phillips W A 20022	Podhorski I 19273	Prall F E M 20187
Paterson C R 22505	Pérez Valverde I 24713	Phillips E 24819	Poe W D 24777	Prati G 24022
Paterson C R 22861	Pérez Valverde I 24713	Philpps L J 25572	Poel J M G 25479	Pratolongo U 20188
Paterson R 19147	Pergamino Estación Experimental 19075	Phytopathological Laboratory "Willie Scholten" 18436	van der 25479	
Paterson R 21082	Peri C A 22412	Piacco R 19025	Poerck R A de 19274	
Paterson R 21403	Perini D 24190	Piacco R 19026	Poerck R A de 19923	
Patino V M 24711	Perini M 22411	Piacco R 19027	Poerck R A de 24715	
Patrikeev T 24103	Perlman D 18375	Piana G 21505	Pohl A 24332	
Patrons of Husbandry 25698	Perner E S 18979	Piana G 25854	Polak E B 23685	
National Grange 19880		Pic M 22664	Poldushkin G N 20640	
Patterson M E 19880			Poletika N V 21028	
Patterson P J 21602			Polhelm P von 23418	
Patterson V 19445			Poljakov L 23129	
Patton E L 20975			Poljakov P P 18253	
Patton R L 22943			Poll H 18438	
Patridge P V 21322			Pollard E F 24714	



	Item		Item		Item		Item		Item
Pratt J H	19227	Quarterman	22742	Raupach M	19996	Reising G	21945	Ries L W	23212
Prax A	25069	K D		Rauscher W	22247	Reisser H	22924	Riese W	22332
Preaud	20040	Quastel J H	20023	Ravazzoni C	18982	Reiter R	23689	Riet G Van t	25765
Preisig R	22510	Quebec Bur des	24908	Rave	20581	Reizner A K	23108	Rieuf P	18440
Prentice W E	24106	Statistiques		Rave	20607	Remacle G	18225	Rievel H	24779
Prescher	20454	Queensland Ag-	25031	Ravensteijn	19276	Remlinger P	21200	Riffard E M	23109
Prescott J A	20113	ricultural Bank		M van		Rempe E Kh	20007	Rigamonti R	24719
Preston R D	18935	Quessel J J	21916	Rawat B S	22513	Renborg U	23227	Rigatelli G F	20916
Preston R J	20788	Quilici R	24778	Rawley E	25815	Renneuve P	25962	Riggs J K	21408
Preston S B	20929	Quinchon	21175	Rawlings W	20303	Renjhen P L	22749	Righi H	23483
Preuschen G	24333	Quinchon C	21788	Rawlins T E	18594	Renoux G	21201	Rigor E L	19955
Preuschen G	25361	Quinhonez	25251	Ray L L	19051	Rentschler H	23690	Riherd P T	22793
Prfanishnikova	18981	Molina E		Raya M A A	18883	Rentschler H	23691	Riklin	21917
Z D		Quintana-Mari	24444	Raychaudhuri	22960	Research Corp-	25849	Rilegor A M	20661
Price A J	20189	A		S P		oration		Riley T	23338
Price D A	22155	Quintero A	21751	Raymundo M B	20304	Williams-		Rimeslatten H	21705
Price H R	20625	Quirk J P	19951	Razous P	20848	Waterman		Rinaldelli J	23695
Price W A	22511	Quirk J P	19954	Rea H E Jr	24718	Fund		Rindfleisch-	21713
Priehäusser G	20658			Rea Clavijo J	2368	Resuggan J C L	23941	Seyfarth M	
Prier J E	21531	Raab J	25481	Read R A	20190	Resuggan J C L	23942	Rindfleisch-	21974
Prieto R	21325	Raalte D van	19663	Reagan J P	25189	Reuss U	21202	Seyfarth M	
Prilimak A K	19318	Raalte D van	19664	Reagan R L	21825	Reuter H	24779	Ringrose R C	21927
Prince-Smith	22120	Rabideau G S	18905	Reagan R L	21973	Reuterswärd G	19670	Ringwald H	24446
Sir W		Radet E	24711	Reali G	22923	Reutt G	25255	Rinoldi L	22926
Prislazhniuk	22669	Radford C D	22579	Reali G	22971	Reyes J	22244	Rio Grande do	22794
A A		Radforth N W	18224	Rebhan J	19667	Reyes P	22269	Sul Secretaria	
Pritschau E	19807	Radoni R	22325	Rebhan J	19668	Reyes P	23943	de Estado dos	
Pritzl G	21972	Radoni R	22706	Rebiffé J	19030	Reynard	19808	Negócios da	
Privalov A F	24844	Radspinner W A	24231	Rebinder P A	24812	Reynolds E B	20193	Agricultura	
Procter C	19658	raed J	25363	Rebmann A	24411	Reynolds F	21406	Indústria e	
Procter B E	23419	Raes	24089	Rebolledo	23688	Reynolds H A	20623	Comércio	
Procter C M	24631	Raffy A	22974	Clement J		Reynolds R R	20660	Ripper W E	22395
Prokof'ev B M	20819	Ragaller F	18612	Rebhour H	19354	Reyntens H	20194	Riquelme Inda J	25257
Prokoshev S M	24211	Raghavan A	18559	Rebhour H	20191	Rhoades M M	18719	Risher F W	24780
Prosser D S	23107	Ragioneri C	22045	Rechenthin C A	19151	Riánova I M	19392	Risl J	20387
Protin	24442	Ragless G B	19472	Rechenthin C A	22136	Riaz-ur-	24325	Rist C E	23534
Prouty C C	23938	Ragsdale A C	21296	Conference	24534	Rahman		Rist C E	24368
Prudhomme J	19422	Raimo H F	21894	Recke	25253	Riaz-ur-	24326	Risueño A	24720
Pschorr W	21195	Raimo H F	23260	Recke Graf v d	20192	Rahman		Ritchie J A S	25816
Pschorr W	21196	Raistrick H	18376	Redaelli D C	22794	Ribéreau F	20355	Ritter E	23984
Puccini G	19659	Raja S	24632	Redding R W	21198	Ribereau-Gayon	23692	Riu E	22070
Pudakov G I	20720	Rakhmanov S I	20832	Redmond W B	22779	J		Rfu Vulart J M	20455
Puertas Fabila	18996	Rakitskii N P	24334	Reece P C	18804	Ricard R	20541	Rivera V	25148
J L		Ramadoro A	20082	Reece P O	21029	Ricasoli L	23693	Rivero J M del	22396
Puertas Fabila	19207	Ramenskiy L	19150	Reed A J	24607	Rice C E	21203	Riveros J E	18528
J L		Ramon G	21197	Reed C H	23308	Rice D	21606	Riveros J E	22745
Puerto Rico Au-	25362	Ramos F V	19211	Reed D W	25523	Rice E L	18886	Roadhouse C L	23944
toridad de		Ramsay H D	24108	Reed H	25625	Rice F E	23914	Roalkvam G T	21328
Tierras		Ramsey G B	18567	Reed H E	24611	Rice L M	23091	Roan C C	22962
Puget	21664	Ramstad P E	23469	Reed H M Jr	22961	Rice R G	24212	Robak H	20515
Puget E	21796	Ramstad P E	23542	Reed J R	21895	Riceman D S	20195	Robbins W J	18887
Pugh B M	18962	Ramstetter D	21034	Reed J R	21896	Rich L H	19152	Robert E	19320
Pugsley A T	18526	Ramos A	25364	Reed J S	23364	Rich L H	21326	Robert J	20768
Pullar E A	19660	Ramos R	25794	Rees J R	18248	Rich R J	24576	Robert Gould	25817
Pulp and Paper	20606	Randall C C	21797	Rees W J	18984	Richards A V	19925	Research	
Research In-		Randell C G	24575	Reese E T	18377	Richards C A	20880	Foundation	
stitute of		Randoin L	25848	Reetz G	21199	Richards C A	20880	Robert G	23356
Canada		Randolph L F	19665	Reeves F	24535	Richards F	25436	Roberts A A	24577
Pupke H	24107	Randolph W L	24109	Reeves W A	24058	Richards J	20996	Roberts A	18737
Purdue Univer-	25243	Rankin W H	20168	Reeves W C	22771	Richards L A	18765	Roberts C S	21975
sity		Ransom E T	24533	Regel C	18634	Richards L A	19944	Roberts D	22514
Agricultural		Rao P H	24633	Reggiardo C	21637	Richards P	23759	Roberts D W A	18936
Economics Dept		Rao T V	24717	Regnier R	22671	Richards R L	24112	Roberts D W A	18937
Purr A	23420	Rao Y R	22922	Rego Z P C	24191	Richardson C H	22393	Roberts E	21955
Purr A	23421	Rapp A E	19666	Rehn J W H	22743	Richardson C H	22925	Roberts E A H	23696
Purr A	24443	Rapsch I	22778	Rehr K	23056	Richardson P P	25413	Roberts H D	20842
Pursey M	22512	Rapschinsky B	25252	Rehr K	23130	Richardson T C	21327	Roberts I H	22157
Purves C M	25249	Rasmussen H J	19448	Rehwinkel E	25254	Richardson T C	21853	Roberts J B	23751
Purvis G H	25624	Rasmussen L	21752	Reiche P A	24110	Richardson W	19869	Roberts J E	20193
Pusch I	24606	Rasmussen W D	23385	Reid A W	23940	Jr		Roberts J E	20208
Putifato S M	20354	Ratchford C B	25365	Reid R L	22165	Richert W S	23694	Roberts J H	21685
Putkisto K	20820	Ratchford C B	25366	Reid W S	22183	Richter H	18527	Roberts J L	19632
Putnam G W	23939	Ratkovich M	22392	Reiff H	23261	Richter J H	25256	Roberts L M	18720
Putz A	19275	Rath	19319	Reimer F C	18566	Richter K	21083	Roberts L M	18736
Putz A	19661	Rath	22863	Rein H	24111	Richter J A	21798	Roberts S J	21507
Puyal V	25700	Rath	22864	Reinagl L	19669	Rieben E	20557	Roberts S J	21508
Puzenat M L	20081	Rath	24335	Reinert J	18985	Riedinger G	20397	Robertson A	21509
Pyle H	25250	Rathmann D M	24445	Reinhold F	20659	Riemschneider	22394	Robertson A	21510
Pynaert L	18223	Rau F A	22130	Reinhold J	24192	R		Robertson D S	23167
		Raucourt M	22330	Reinking C W	25032	Riemschneider	22744	Robertson J T C	23850
Quackenbush	23849					R		Robertson T C	20356
E R									
Quadland H P	19662								



Item	Item	Item	Item	Item	Item
Robertson T C 24721	Roness B H 20470	Rummell L L 19155	Samarakis B A 23700	Scalf R E 23546	
Robin A H 21976	Ronning M 23070	Rumney W J 21674	Samarakis B A 24195	Scamoni A 20609	
Robinet M 24113	Ronstadt K 24537	Runge B 22516	Sammi J C 20641	Scanlan J J 24781	
Robins W W 19970	Roos M J 21854	Runge F D 20357	Samoflov I I 20199	Scaramuzza L C 18442	
Robinson C T 20958	Rooy A J van 24115	Rungs C 22927	Sampayo T M 18735	Schaap C M 25631	
Robinson D R 19711	Roper J A 18722	Runkel R O H 21007	Sampson A W 19159	Schachinger L 23424	
Robinson E N 23110	Rosand J 19321	Rupert J A 18724	Sampson D K 19677	Schachman H K 18600	
Robinson J L 25701	Rosbaco U F 18889	Rupp E 24450	Samuels J K 24244	Schaefer E E 18443	
Robinson M 21511	Rose O 23131	Rupp R G 22270	San Dimas 24245	Schaefer G 24731	
Robinson R 22071	Rosenkranz 23262	Rural Industries Bur 25628	Lemon Association 21258	Schaffel L 23363	
Robinson W B 24322	Rosenstiel 19001	Rusina O N 18749	Sanchez Belda A 21258	Schaffer J D 21210	
Robson J 21669	K von 19909	Russell Sir E J 20198	Sandahl P L 19678	Schaffer J D 21211	
Rocca 24447	Rosenstiel K von 25925	Russell E W 20241	Sandberg O 19679	Schaln P 23803	
Rocha G L da 19153	Rosenthal E 23310	Russell J F 21607	Sandburg Mrs C 22121	Schalk A 19451	
Rocha G L da 24448	Ross C B 23310	Russell J L 19676	Sanders J P 25070	Schalk A 24199	
Roche J 21512	Ross E S 22990	Russell J S 24539	Sanderse P D 25112	Schanderl 23702	
Rock R C 24243	Ross H H 22820	Russell K L 25629	Sandford B 24196	Schaps T 21753	
Rockefeller Foundation 25258	Ross J G 18649	Russell M L 25926	Sandford J C 22077	Schär A 24723	
Rodale R 19671	Rossem G van 22398	Ruszkowski J 22399	Sandstedt H 22245	Schebitz H 21799	
Röder R W 23697	Rossi A 22706	Rutgers University 25818	Sandved P 22747	Scheck H 23524	
Rodgers C L 18323	Rossi E 23693	Bur of Biological Research 18698	Sandwith N Y 18325	Schedl K E 22673	
Rodino M 25414	Rossi P 21514	Ruthenberg M 19031	Sandwith N Y 25927	Scheepers C P 19160	
Rodman C A 24114	Rossi R P 24608	Rüther H 22581	Sano Y 18196	Scheffer V B 20664	
Rodrigues F G 20430	Rossi Lema L 22568	Rutledge L J 25788	San Pedro E A 24452	Scheffer W R 23703	
Rodrigues R V 24164	Rossi Lema L 23800	Rutledge M M 23302	San Román G D 22400	Schellhorn von 23481	
Rodriguez A H 24909	Roswall G 22515	Rutten P 23058	Sansbury A 22048	Schellhorn von 23535	
Rodriguez C 20196	Roth C 20608	Rutten P J 25416	Sanson E 21609	Schellhorn M 23470	
Rodriguez W J 21204	Roth H 21216	Ruzaev K S 22672	Sant L E van 't 18912	Schellenberg A 23704	
Rodriguez Escribens M 20041	Roth H 21672	Ryan F E 22746	Sant' Ambrogio L 23505	Schellner H 22247	
Rodriguez Escribens M 20431	Roth H 24193	Ryan F E 22803	Santander 23572	Schenk P J 18891	
Rodriguez Escribens M 22397	Roth J S 24363	Ryan J C 24451	Colombia Di-rección Dept de Estadística 18326	Schenk P J 19871	
Rodriguez Gar-cia J A 21513	Roth-Bruser 21673	Ryan J C 25438	Santapau H 24912	Schenk P J 22401	
Rodriguez 20305	Rothkegel W 20542	Ryan J M 23009	Santiesteban Ochoa T 19356	Schenk P J 22821	
Langoné A 25437	Rothschild K W 23504	Ryde H 21608	Santomo P 25630	Schenk P J 22928	
Rodriguez Pihero S 20692	Rotini O T 20388	Ryff J F 21515	Santos B M 25439	Schenkelberg A 20200	
Roe E I 20692	Roter G Jr 19673	Ryger E J 23851	Sanz A B 21517	Schermeister L J 18892	
Roeder G 23799	Rottentsten J 25260	Rygg G L 19355	Sanz B 21219	Schermerhorn L G 19810	
Roemer T 18721	Rouchy 23543	Saarinen P 21516	Sard Q 20306	Scheu H 18530	
Roemershauser A E 25005	Roumet P 21937	Sabogal Wiese J R 25261	Sardone L T 24197	Schickele R 25273	
Roepke M H 21518	Rousek E J 20239	Saburi T 24117	Sarkar B C R 23423	Schleier 24118	
Rower C F 22580	Roussel L 20558	Sacay F M 23383	Sarkaria D S 22943	Schliemer E L 20583	
Rof Codina J 21205	Routien J B 20025	Sacchi G 20083	Sardul I 23802	Schliering R 23929	
Roger-Smith H 19672	Roux E R 18723	Sacchinelli D 25262	Sasa M 22440	Schliethart L J 25113	
Rogers A L 22121	Rouy H 24538	Sacco P 19156	Saskatchewan Co-operative Producers 23457	Schildmacher H 22780	
Rogers C F 21084	Rowan W D 24449	Sacco P 23371	Sassenhoff I 21978	Schiller O 25368	
Rogers C F 21085	Rowe J E 22046	Sachs E 19157	Sastre del Blanco M 24453	Schimmel and Co 24724	
Rogers C F 23309	Rowe J Z 25110	Sackett D 23801	Sastry G G 20409	Schinagl J F 23263	
Rogers C M 25627	Rowell F O 23057	Sadowski V I 24194	Sauer B 22166	Schindler E R 20801	
Rogers D P 18378	Rowell M E 18890	Saenz Fety G 18963	Sauer E L 25387	Schippel H 20584	
Rogers N F 21670	Rowlands W T 22156	Safeeulla K M 18675	Sauer J D 18327	Schirmmer R G 21634	
Rogge K 24910	Rowntree J I 25823	Saggers C T E 19158	Saunders E G 24246	Schlamb K F 21997	
Rogge K 25109	Rowntree L 19675	Sahasrabudhe V B 20183	Saunders L Z 21429	Schlang E S 25928	
Rogler G A 19154	Roy A S 24116	Sailler R I 22991	Saunders L Z 21507	Schlebach C 21332	
Rogna M 24587	Roy J B 24767	St-Germain M 23852	Saunier R 24872	Schlehuber A M 18531	
Rogovin Z 24046	Rozet I 23213	St Gimesi F 18676	Sauvage C 18254	Schlehuber A M 19032	
Rohde G 20024	Rozhanets G M 18324	St Johnston J H 23699	Sauvage C 18257	Schleicher R F 20516	
Rohrbeck E H 25702	Rubanov B V 20721	Saint-Priest P 24634	Savage B M 22135	Schlenk A Firm 24968	
Rohrmann B 22744	Rubber Research Institute of Malaya 19926	Saint Rat L de 18938	Savage D A 19135	Schlenker G 20610	
Rolig J T 19056	Rubensam E 20197	Saja F 25111	Savage R H 19228	Schlenz P 19322	
Rolig J T 20762	Rubin B A 18917	Sakharov A 25149	Savich-Lfubitskaia L I 22582	Schlottbauer C F 21675	
Rojas A 24949	Rubin S M 19450	Saks E V 20930	Savin A 25367	Schlumberger O 22402	
Roleff H 23422	Rubin S S 20240	Salerni E 25954	Savvin F E 20663	Schlup L A 25632	
Rolle M 21671	Rubini D G 21206	Salerno 23750	Sawachika R 18196	Schlup L A 25633	
Rollins R C 18226	Rubner K 18635	Sales E K 21634	Sawyer W A 19120	Schlup L A 25652	
Roman E 18988	Rudner K 20662	Salk J E 21990	Saxena H C 21331	Schmid G 19323	
Rymcke-Moe G 25259	Rudori w 18721	Salles Y 18529	Saxon E A 23059	Schmid O 19324	
Römer R R 23092	Rüegger H R 23925	Salomon K 21774	Sayanna V V 25264	Schmid V 20693	
Romero 24911	Ruffin G 21329	Salomón P 25797	Sbarra N H 22748	Schmidt G 22320	
Montero R 23382	Ruggenberg H 23417	Salomone G 24722	Sborgi U 23701	Schmidt H 22992	
Romieu A 21977	Ruhl D M 21256	Salvador A R N 21209		Schmidt H W 22517	
Romijn C 25415	Ruhnke F 23058	Salvador y Ascaso J M 25263		Schmidt H W 22865	
Romon H 18441	Ruiz C 20559	Salzwedel H 22047		Schmidt K 21800	
Ron Pedrique A 25482	Ruiz Diaz I M 21330			Schmidt M 18228	
	Ruiz Martinez C 21207			Schmidt R 21035	
	Ruiz Prieto A 21257			Schmidt W 20849	
	Ruiz Urbina H 21208				



Item	Item	Item	Item	Item
Schmill M M 24725	Schwink T M 21908	Shaffer W R 24785	Shipley F 25809	Singh B 25267
Schmitt R J 19680	Scigliano J A 18532	Shah C H 25189	Shippers Advisory Committee 24230	Singh G D 18962
Schnaas G 21676	Scott A H 19682	Shah M I 22749		Singleton H P 21063
Schneider B 21923	Scott D F 23133	Shah R 18444		Sinlagn I I 19166
Schneider B H 19134	Scott E L 19682	Shahan M S 21230	Shippy B L 19687	Siniscalchi A 25268
Schneider B H 21391	Scott G D 23853	Shain S S 19162	Shirky S B 25975	Sinifskiy V P 20968
Schneider B H 22204	Scott H M 21855	Shain S S 19163	Shirley H L 20457	Sin'kovskiy V P 19454
Schneider B H 22215	Scott M H 20904	Shakhov G N 20694	Shirreff W H 22073	Sinnard H R 23266
Schneider B H 22216	Scott M L 21878	Shane H 25497	Shizyo N 24429	Sipkes C 19691
Schneider C 19681	Scott M L 21898	Shannon F A 25634	Shockley H G 20433	Sironval C 18678
Schneider F L 22167	Scott M T 22764	Shapiro D S 22675	Shoemaker A 19688	Sirri A 21036
Schneider G 18229	Scott R 23945	Shapkin D N 19164	Short H F 19689	Slobarova E P 20129
Schneider K 23801	Scott R C 24247	Shapland G F D 24578	Short H F 19690	Sivaswamy K G 25269
Schneider R 18527	Scott R C 24248	Shaposhnikova A N 20204	Short J G 25636	Sivertz G 21979
Schneider V 21519	Scott W A 20202		Shreve R L 22137	Sjöbeck E 19814
Schneider-Orelli O 22822	Scotton M 23214	Sharma A C 22519	Shuey P 20398	Sjöberg G H 19692
Schnitzler F A 23894	Scotton M 25150	Sharma P L 22519	Shull S C 23432	Sjögren S 22520
Schoch W 21086	Scrim W G 20789	Sharp A 24119	Shul'ts O R 23707	Sjostrom L B 24288
Schoenaers F 21212	Scully N J 18750	Sharp D G 21905	Shushkin A 24122	Skaare S 19167
Schofer G 23111	Seals W F 24726	Sharp E F 25534	Shutova N N 22866	Skachkov A I 23299
Schoffelmayer V H 19927	Sealy J R 18328	Shashkina L M 19452	Shuttleworth S G 24636	Skalinska M 18679
Schofield F W 21674	Searl B 22072	Shavrygin P I 19998		Skaller F 21856
Schofield P G 20023	Sears P M 18677		Shvedskafa Z M 18947	Skappel W 20643
Scholten J A 21030	Schrister E L 22518	Shaw B T 25266	Sibbitt L D 24454	Skaptason J S 22752
Schomer H A 24323	Sedlmayr F 23706	Shaw C L 25766	Sibilla C 22408	Skelding A D 18984
Schönbrunner J 19872	Sedlmeier H 21678	Shaw C S 23159	Sibley A B 19034	Skelton W E 23340
Schöne H 22674	Seeger A 20014	Shaw F R 22750	Sidwell C G 24637	Skepper A H 24339
Schopflicher R 23060	Seely H E 20642	Shaw S T 24609	Siebold D 21754	Skertchly C 23760
Schopmeyer C S 20976	Segal J 18726	Shaw W L 19033	Siebold F 23265	Skertchly C 23903
Schött M 23705	Segond L 21150	Shawver C B 22203	Sieck K A 23216	Skibbe B 25639
Schrader G 22403	Seguinot Robles P 19755	Shay D E 18532	Siegel M 24265	Skillman E 22994
Schread J C 22404	Seidel K 21087	Shcheptil'nikova A M 20094	Siegel S M 18895	Skolko A J 18552
Schreiber G 21333	Seise A 20307	Shcherbakov A P 18894	Sieghold F 23854	Skrynnikova I N 19999
Schreiber W R 24200	Seise A 25151	Shcherbinovskiy N S 22407	Siegward Father 25637	Skullerud K 25270
Schricker G 23484	Seitzer 19325	Shearing D 20309	Sierra L F 19326	Slade R E 23158
Schroder H H 19928	Selby W E 20308	Shebalin I U A 20811	Sierra Leone Survey and Lands Dept 25370	Slanetz C A 25727
Schroeder C A 19357	Selinke H 21640	Shebeko A F 19453		Slate G L 19455
Schroeder C R 21213	Selke W 20203	Sheehy E J 21089	Siggeirsson E I 24579	Slater W H 24123
Schroeder R A 18907	Sellards G 24635	Sheetz H O 21901	Signal J 21520	Sleesman J P 18445
Schroeder W W 25033	Sellers A F 21518	Sheffield C A 25635	Signal J 21521	Sleesman J P 18465
Schubert A 19929	Sellers R 25546	Sheffield M L 18601	Sihtola H 20959	Sleesman J P 22409
Schubkegel M Jr 24782	Selskapet for Norges Vel 25984	Sheftel' I M 18230	Sijtsma P 25114	Slijcken A van 19168
Schueneman J J 22405	Sen B R 20517	Shellenberger J A 22377	Silveira A H da 24338	Sloan G D 22410
Schuessler R 23010	Sen D L 24057	Shellenberger J A 22419	Silveira G G da 19279	Sloan J W 23534
Schulenburg A F 20665	Sen D L 24076		Silveira G G da 20520	Sloan R 23791
Schuler E A 25589	Sen Gupta R K 22782	Shelton D C 22217	Silvelrinha R 20205	Slotter R L 24478
Schuler L 22288	Senchurov K T 20560	Shemagonov A T 20519	Silvernail H 25638	Slusher H F 25072
Schultheiss W 24969	Senet A 21624	Shennikov A P 19165	Silversides C R 20606	Smart M 25722
Schultz J H 19811	Sengbusch R von 24208	Shepherd G P 24120	Silvetti Pefa L 22781	Smeding P 19394
Schultz T W 24982	Senke W 23215	Shepherd R E 19684	Simerl L E 23485	Smeding P 25271
Schultz T W 25265	Sennels N J 19812	Sherf A F 18533	Simmier L H 23690	Smedt A de 19456
Schultze E S 21214	Sennels N J 19683	Sherman G D 19974	Simmons E G 18379	Smedt A de 20666
Schulz W G 21409	Sens 24783	Sherman H M 19685	Simmons H F 23902	Smelov S P 19169
Schulz W G 23264	Sepulchre G 18618	Sherrill S 24037	Simms B T 21230	Smirnoff W 22823
Schulze E 20201	Sérandour P 23284	Sherwood A 22182	Simon G 24201	Smirnov I 24014
Schulze P 22583	Serdobol'skiy I P 19997	Sheuring J J 23946	Simon M 20206	Smirnov I M 22218
Schürch A 21359	Serdobol'skiy I P 19998	Shev'ev E I 19813	Simonart 23806	Smirnova V I 20027
Schuringa G J 24089	Serfontein P J 24784	Shewell G E 22751	Simonds W A 23708	Smith A M 25371
Schutter B de 19873	Sergeev S S 25369	Shewell-Cooper W E 19277	Simonet M 18727	Smith B C 24846
Schwabacher E N 21677	Sergeev V 24059		Simonet M 18728	Smith C A 21625
Schwabe W W 18993	Sergey F 20432	Shewell-Cooper W E 19278	Simonnet H 21134	Smith C A 25372
Schwan B 22657	Serra Horta M 20894		Simonpletri R H 21219	Smith C A 25819
Schwartz B 21215	Serrano C 19930	Shewell-Cooper W E 19393	Simonson R W 25506	Smith C A S 22929
Schwartz B 22168	Serre L 22049		Simpson C E E B 25547	Smith C C 25945
Schwartz D 18586	Serrell E W 24540	Shewell-Cooper W E 19686	Simpson F M 24541	Smith C E 22322
Schwartz D 18651	Sevenster J 24727		Simpson G 21755	Smith C E 22986
Schwartz D 18725	Severson H 21088	Shewell-Cooper W E 20026	Simpson H V 20790	Smith C E 22933
Schwartz D 18900	Severson H 21334		Simpson H V 20791	Smith C S 20310
Schwartz D 19245	Sevnik F 20518	Shideler F J 21217	Sims H J 22184	Smith D 19170
Schwarz A E 23339	Sewall J S 25071	Shifferrmiller W E 25152	Sinclair A N 22185	Smith D S 22963
Schwarz G 23805	Sewell R F 22203	Shillinger J E 21714	Sinclair F H 24580	Smith E J 23985
Schwarz H 23132	Sewell T C 19161	Shimanfuk A P 20722	Sinclair W B 18386	Smith F B 18447
Schwarz K 25488	Sexton W A 22406	Shingler G P 20977	Singapore Director of Co-operation 25703	Smith F L 24786
Schweizer J 19246	Seymour E Y 21335	Shinners L H 18330		Smith F V 24847
Schweizerisches Bauernsekretariat 25417	Seymour F C 18329	Shiokiri H 24336		Smith G E 20960
	Seymour M J 25976	Shiokiri H 24337		Smith H 21610
	Sgambati A 21216	Shlosaki M 24121	Singer A 20821	Smith Mrs H 25640



Item	Item	Item	Item	Item	Item	Item
Smith H C 18534	Solanet E 21756	Speed J G 21818	Stapleton N M 18568	Stevenson T M 19176		
Smith H G 24485	Solheim K 21091	Speer V C 22220	Stapley J H 22416	Stewart A B 20211		
Smith H W 20207	Solheim K 22138	Speers J W 23986	Starchenko I I 20523	Stewart D F 22169		
Smith H W 21679	Soljanik I 20723	Speight W L 23709	Stark D H 25272	Stewart D L 21338		
Smith J 21297	Solleder W 24457	Spek J van der 20361	Stark E 19398	Stewart E D 23711		
Smith J C 20208	Solodkova N A 22521	Spence J 19006	Starkoff O 22585	Stewart F M 24545		
Smith J G 23116	Solomonov F I 19457	Spencer D 20028	Starkov I D 21716	Stewart G 21379		
Smith J H 25641	Soltis F 18231	Spencer E L 20374	Starling D 25642	Stewart G I 20749		
Smith J R 19693	Somos A 19815	Spencer J L 18535	Starr M P 18569	Stewart J A 23319		
Smith J R G 20017	Sompolinsky D 21715	Spencer L 23904	Stassen 20524	Stewart J M 22088		
Smith J T 20792	Sonkin H 23761	Spencer R A 23173	Stateler E S 24612	Steytler F A 21526		
Smith K M 22930	Sonneck H 21522	Spencer W T 22753	Staten H W 19175	Stichting voor 25891		
Smith K N 23874	Sono S 22384	Spera L 21826	Stations Fédé- 19331	de Landbouw		
Smith L F 20667	Soom E 20724	Spera L 24950	Viticoles Ar- 22411	Stickler K L 23929		
Smith L M 22584	Soom E 20833	Speroni G 22411	boricoles et 22412	Stier T J B 23546		
Smith L P F 25704	Soranzo L 23426	Speroni G 22413	de Chimie 18536	Stijmans J 20375		
Smith M A 18567	Sørensen F 19694	Speroni H A 18536	Agricole à 24300	Stirk G B 19950		
Smith M B 24218	Sørenssen E 21336	Speroni H A 18537	Lausanne et à 20210	Stirling A M 21510		
Smith M H D 22581	Sorgato I 23426	Speyer W 22414	Pully 20933	Stitt L L 19734		
Smith M K 21857	Sorgato I 23544	Spiegelman S 18732	Staudacher E 20933	Stitt L L 19735		
Smith N G 19875	Sorgato I 24913	Spielmann O 22522	Staudacher E 20933	Stitt L L 19753		
Smith O 24340	Sormani R 20965	Spies A 24300	Staudacher E 20933	Stitt L L 19754		
Smith O F 18448	Sörmo I 24638	Spillane J T 22390	Staudacher E 20933	Stitt L L 19789		
Smith R B 24341	Soroka J M de 25440	Spindler 19329	Stautemas E 19698	Stitt L L 19790		
Smith R E 21802	Sorokina A K 19171	Spink W W 21221	Stautemas E 19699	Stitt L L 19791		
Smith R G C 24455	Sorsa B 20932	Spitkovskij Z M 20940	Stazzi P 23762	Stitt L L 19816		
Smith R J 19358	Sos J 23545	Splitter E J 22248	Stead H A J 20210	Stitt L L 22825		
Smith S E 21410	Soskin S 25789	Spörrli H 21337	Stearn W T 19726	Stoa T E 25273		
Smith S E 22144	Soskić 19172	Sprague D C 23228	Stearns J L 20905	Stock 20670		
Smith W E Jr 24900	Štarić- 23807	Sprague D C 23276	Stearns J L 20907	Stockburger S 25643		
Smith W R 20931	Štarić K 22219	Sprague D C 23341	Stebbing E P 25931	Stockholm 25770		
Smith W W 25929	Sotola J 22950	Sprague R 18381	Stebbing E P 25932	Konjunktur- 25770		
Smithson R T 20895	Soule C M 19328	Spreng H 19173	Stebbins M E 18987	Institut		
Smits J 19327	Sous J S I de 23574	Sprenger A M 19397	Stedman G 24249	Stockler de 23712		
Smits J van G 19276	South Australia 25889	Spring F S 18922	Stedronsky V L 23159	Quelroz A 23168		
Jr 20359	Statistical Off 25889	Springer F 19458	Steele J C 23311	Stoddard H T 23168		
Smolk L R 21858	Southern Rhodesia Dept of 24787	Sproule J 21819	Steele J G 25507	Stoddart L A 19177		
Sneek Y A van 24787	Agriculture and 18232	Sproule J 21820	Steele-Bodger 21297	Stoekeler J H 20692		
P te 19876	Lands 24458	Spruill R C 20961	H W 21093	Stoekeler J H 20695		
Snijders J H 19876	Southwell V G 24458	Spry G A 23302	Steensberg V 21093	Stofmeel W J 22995		
Snipes L F 25447	Souza A O de 25767	Spurr F A 22415	Steere W C 18347	Stokar von 19035		
Snodgrass D 24456	Souza A O de 20668	Squiers C D 22195	Steffek E F 19700	Stokes D R 24277		
Snoeyenbos G H 21985	Souza P F 19931	Squire C H 19697	Steffen L 19701	Stokes I E 24914		
Snow A G 20978	Souza W W C 20998	Srisukh S 22948	Steib R J 18539	Stoll K 18540		
Snyder D E 18331	de 23816	Sroka K 20458	Stein E 25933	Stoll K 18602		
Snyder J C 19395	Sowder A 23816	Staalduine D van 19459	Steinberger A 23061	Stoll K 19373		
Snyder J C 19396	Spagnoli A 19695	Staarg 18449	Steinberger H 23710	Stoller E R 22081		
Sobachenkov P A 21090	Spain R L 19696	Stableforth A W 21222	Steinbrenner 19960	Stonebrink B 21527		
Sobek V 21220	Spain R L 21178	Stableforth A W 21523	E C 18997	Stopp F 18235		
Sobolev S S 20360	Spain Ministerio 21258	Stabler S P 18964	Steinbeck O 18997	Storey T A 20793		
Soboleva M P 20209	de Agricultura 25034	Stabler S P 24837	Steiner S J 23887	Storin G K 20949		
Sobrero L R 23300	Serv de Capacita- 23575	Stacey C 23267	Steiniger F 22417	Storleer G 21722		
Sobrinho V 20521	cación y Propa- 23217	Stacey W A 20996	Steiniger F 25890	Stornes A 25153		
Sociedad Na- 25705	ganda 21258	Stadlinger H 23427	Steininger A 20955	Stornes A 25707		
cional Agraria 25418	Spain Ministerio 21258	Staffe A 25930	Steinlin H 20725	Story L F 24125		
Sociedade Na- 25418	de Agricultura 25034	Stafford C D 21524	Stelfox A W 22867	Stout L 24581		
cional de Agri- 25418	Serv de Capacita- 23575	Stafford E M 22584	Stensgård A H 25419	Stout O E 19978		
cultura 23855	cación y Propa- 23575	Staggs E 23117	Štěpánek M 21525	Stout O E 19979		
Société Anonyme 23855	ganda 23575	Stahler L M 18996	Stepanov V N 18636	Stover J H 20380		
des Producteurs 23425	Spain Serv Na- 25034	Stakman E C 18538	Stephan S A R 22249	Stover R H 18541		
Suisses de Lait 23425	cional de Cré- 23575	Staley T W 23987	Stephan S A R 22586	Straka L E 24822		
Société de Chi- 20585	dito Agrícola 23217	Stamm E P 20834	Stephens C G 20060	Strand L 20671		
mie Industrielle 20585	Spalding W T 23217	Stamp J T 22156	Stephens D L 25706	Strashinskii B A 20835		
Société 20585	Spanish West 23575	Stanberry C O 20276	Stephens P R 25934	Straube C 21223		
Européenne 24970	Africa 23575	Staner P 18332	Stephens W P 25044	Straus W 18680		
de Reboise- 24970	Secretaria Ge- 20000	Stanford E H 18233	Stephenson A B 22051	Strecker H 25483		
ment 24970	neral 20000	Stanford E H 19174	Stepkowski S 21192	Street A G 21411		
Society of 24970	Spannagel 21092	Stanfukovich 18234	Sternburg J 22754	Street A G 23285		
American 24970	Sparks W T 18730	K V 18450	Steucl W 22824	Street A G 24615		
Florists and 24970	Sparrow A H 18731	Stanley J 18450	Steucl W 22932	Streeter J R 23174		
Ornamental 24970	Sparrow A H 18731	Stanley O 22523	Stevens A H 23988	Streinz A J 20611		
Horticulturists 24970	Sparrow F K 18380		Stevens D M 25508	Strenge F A 20913		
Sodré N W 24543	Sparrow R C 18731		Stevens J 20029	Stretcher D A 20838		
Soenen A 18613	Speakman J B 24036		Stevens K R 20029	Streyffert T 20612		
Soenen A 22931	Spear E W 21943		Stevens O A 18255	Stricker M H 22524		
Sohn A W 21008	Specialist Con- 20042		Stevens O A 22868	Stroganova A S 18451		
Sokol P F 24342	ference in Agri- 20042		Stevens P G 24544	Strohm J 20085		
Sokoloff V P 20052	culture Adelaide 20042		Stevens W L 19932	Strolle E O 24933		
Sokolov B P 18729	and Canberra 20042		Stevenson J H F 23268	Strömblad F 25274		
Sokolov V I 20002	1949 20042		Stevenson J W 20023			
Sokolov S A 18208	Speck J J 22537					



Item	Item	Item	Item	Item	Item	Item
Strong F C 18452	Swenson H F 23856	Tapernoux A 21770	Testa J 23715	Timm T R 25281		
Strong R C 22933	Swett W W 21528	Tapi G 18900	Testa J 23716	Timoney J F 22240		
Strong R G 22322	Swift H 18939	Taraka K 18454	Testa J 23717	Tindale M D 18344		
Strong R G 22986	Switzer D 23547	Taranov G F 22526	Testoni R 22222	Tindall C 21095		
Struelens H 22418	Switzerland Di- 25772	Tarasova Z 24806	Tetrode P 25964	Tindall C 23093		
Strutt C W 25275	rection Gène- 25772	Tarensko M I 24679	Tetsujiro M 24459	Tindall C 24729		
Strutt C W 25771	rale des Doua- 25772	Tarjan A C 18614	Teunissen 21680	Tindall C 25375		
Stucky H R 25509	nes Fédérales 25772	Tarjan R 23545	G H B 23433	Tindall C 25525		
Studer K 23320	sychev P P 19453	Tarkovskii M I 19178	Teuton F L 23433	Tingey D C 18965		
Stuhlman O Jr 18998	Sychev P P 23112	Taschen B 22421	Texas Engineer- 23316	Tinker E W 20613		
Stupak I 23218	Sydow C von 24583	Tasker A 23713	ing Experiment 23316	Tinklin G L 24796		
Sturge L M 21903	Sylvén E 22755	Tasmanita 20525	Station 23316	Tinsley T W 18580		
Stuyvenberg 24971	Sylvén E 22756	Forestry Com- 20525	Texas Engineer- 24718	Tippmann F F 22679		
J H van 24971	Sylvén E 22934	mission 20525	ing Experiment 24718	Tiquet F 24133		
Suball L 23384	Sylvester J B 20135	Tate M T 25720	Station 24718	Tischer R G 24213		
Subramanian R 22782	Sylvestre G 20414	Tatu H 24130	Textile Techni- 24019	Tisdale C R 25647		
Suder H B 25850	Symoens J J 18637	Taussig W 21340	cal Federation 24019	Tisdale E W 19180		
Sudnik N C 20129	Symonds F R 23857	Tavernier H 21224	of Canada 24019	Tison F 22757		
Sudo S 24337	Syracuse Uni- 18999	Taylor B R 21259	Phaden J F 25589	Titova M I 21707		
Sudre J 23062	versity 18999	Taylor G 20392	Phair P J 25045	Titova M I 21708		
Suetsugu I 18681	Dept of Plant 23062	Taylor F J 18901	Phalencost W 22289	Titova M I 21717		
Suetsugu I 18967	Sciences 23062	Taylor H L 25645	Thames G 25341	Titova N F 18714		
Sugar Research 20962	Szafran B 18236	Taylor J I 25709	Tharp M M 25461	Tfarrin A V 20672		
Foundation 20962	Szafran B 18348	Taylor K L 22677	Tharp V L 21529	Tixler P 18784		
Sugar Techno- 24915	Szczotka S 20561	Taylor L 25646	Thatching B 21804	Tjio J H 18653		
logists' Asso- 24915	zzego E 23548	Taylor L J 22053	They R 24728	Tkachenko M E 19037		
ciation of 24915	Szelényi G 22935	Taylor M H 21260	Thibon A 23221	Tkhagushv N A 19473		
India 24915	Szepeszy I 22952	Taylor M H 24610	Thielemans G 23889	Tobey E R 23410		
Suglura A 22384	Szillard L 18715	Taylor R W 22054	Thielepape E 24917	Tobin R E 23011		
Suggitt J W 19877	Szirmai J 18543	Taylor W R 18256	Thielmann F 20215	Todd A C 21780		
Suisse P 25276	Szirmai J 18544	Tchentchev I 22252	Thieme G 24131	Todd A C 21980		
Sult R F 18453	Tabasso E 24129	Teakle L J H 20212	Thiery J P 21530	Todd A C 21981		
Sullivan J F 22250	Tablante N B 25703	Teal E 23824	Thimann K V 21061	Todd A C 22154		
Sulzbacher W L 24546	Tachi I 21010	Teal E 23888	Thin C 21510	Todd A R 22797		
Sulzlee C 25962	Tackett B 23342	Technical Infor- 25894	Thirion P 24823	Todd F E 19181		
Sumnerford W T 22701	Taeuber C 25997	mation Serv 25894	Thirumalachar 18382	Toeller H 23550		
Summerscales 22074	Tagle E C 24547	Washington D C 25894	M J 18382	Toepfel 21697		
J A 22074	Tahmisiyan T N 22964	Fedaldi J 19247	Thizeau P 19030	Togashi K 18456		
Summerville 20362	Tai E A 19349	Fedescio L F 21786	Thom E 23851	Togashi T 19332		
W A T 20362	Taillandier 21658	Tegtmeler A 19702	Thomann 20243	Tognocchi L 21412		
Sundman J 21009	Tait R A 25892	Teldman S 24584	Thomann W 23953	Toledo A A de 22758		
Sung S H 18361	Tajima H 24461	Tejada J de D 25851	Thomas A D 22588	Toles G E 23991		
Suolahti O 20897	Takahashi T 23549	Tejada Magill 24916	Thomas C R 22861	Tolkantisa A 25155		
Supreme Com- 20055	Takatori M 24460	C J 24916	Thomas H E 18556	Tomaselli C 18903		
mander for the 20055	Talboys B E 23118	Teleki A 23714	Thomas R M 21531	Tomey A 21899		
Allied Powers 20055	Tallarico G 21094	Teleki A 25773	Thomas W D Jr 18455	Tomhave W H 24548		
Natural Re- 20055	Tallarico G 21339	Téllez Molina R 18979	Thomasow J 23805	Tomlinson F R 25421		
sources Sect 20055	Tallarico L A 20242	Tempany H 25279	Thomasson R R 20434	Tomson C K 21341		
Surraco A M 24582	Talley E A 24316	Templeton G S 22078	Thompson B T 20214	Tomson C K 21342		
Sussman O 24788	Talmey P 23989	Tenbroeck C 21225	Thompson J 25374	Tonkes J H 25485		
Sussman R R 18732	Tame W J 20363	Tendeiro J 22587	Thompson J H 25374	Toop C R 22254		
Suđeršić M 25510	Tamman A I 19818	Tenembaum J L 23063	Thompson J I 23458	Tootell R B 25282		
Sutherland H L 22251	Tamura I 22420	Tennessee Val- 20950	Thompson W C 22055	Topper J 22272		
Suzuki 23471	Tamura I 25278	ley Authority 20950	Thompson W C 22056	Torp A 23312		
Suzuki T 22440	Tamura T 23428	Div of Forestry 20950	Thompson W H 23459	Torrance D J Jr 19704		
Svenska Textil- 24126	Tanaka H 18237	Relations 20950	Thompson W L 22826	Torreiro R 25643		
forsknings- 24126	Tanganyika Cof- 19933	Tennison L B 21915	Thompson W R 19179	Torrens Pastor 21226		
institutet 24126	fee Research 19933	Teodoro A L 23219	Thomson T E 21821	Torres B A 22423		
Sveriges Pals- 21723	and Experimen- 19933	Teodoro A L 23220	Thornston 23763	Torres Filho A 23506		
djursuppfödare 21723	tal Station 19933	Teollisuuden 21000	Thornston- 23763	Torres Filho A 24983		
Riksförbund 21723	Lyamungu 19933	Keskuslabora- 21000	Kemsley C 23990	Torres Filho A 25441		
Sveriges Ut- 24848	Moshi 19933	tortion Tiedo- 21000	Thorp F Jr 21542	Torres Juan J 20770		
sädesförening 24848	Tanganyika Dept 19933	nantaja 21000	Thorp H C 19036	Torri E 21532		
Svetallo N V 25644	of Agriculture 19933	Teotia S P 20030	Thorsrud J 19440	Torrice Diaz 20673		
Svinth J F 25243	Tanganyika 25893	Tepp M 20586	Thourout M C 24132	Torreico Arias 25422		
Sviridenko S 24127	Dept of Agri- 25893	Tepper E Z 20031	van 24132	R A 25422		
Swain I L 22525	culture 25893	Tepstad J 20769	Thullbery H A 22422	Fortorelli N 21859		
Swain P J 24128	Tanganyika Dept 25373	Ter-Avanesjan 18733	Thunell B 21011	Fortorelli N 22122		
Swaminathan 19817	of Lands and 25373	Terényi S 18902	Thurman E B 22783	Fortorelli N 24549		
M S 19817	Mines 25373	Terman G L 24266	Thye L 23286	Foselo A 24343		
Swanke A E 20794	Tanganyika 19057	Termohlen W D 24789	Thygesen A S 22271	Tóth E 18904		
Swartz V W 24637	Sisal Experi- 19057	Terpstra P 23175	Tibor R 18940	Totman J E 20381		
Swearingen T 25963	mental Station 19057	Terranova E V 19359	Tidnam F H 19280	Tourje E C 19705		
Swedborg E 25420	Milngano 19057	Terrill S W 22221	Flemann H D 20587	Tournay R 18333		
Sweden Statens 18542	Ngomoni 19057	Terry C J 22089	Flemann H D 20873	Tournay M 23718		
Växtskyddsan- 18542	Tani T 24459	Terry H B 19819	Flemann O R 19703	Tournut J 21427		
stalt 18542	Tani T 24460	Terts I 20213	Filford P E 18545	Tournut J 21765		
Swahn J J 25154	Tani T 24461	Testi B 22253	Timberman 20934	Tournut J 21766		
Swahn J J 25277	Tani T 24462	Tessi J L 18570				
Swendseld R T 25115	Tani T 24463					
Swenson E D 22419	Tani T 24972					
	Tannous A I 25484					



Item	Item	Item	Item	Item	Item
Tove S B 21709	Tuo P T 24465	U S S R Sel' - khozstroiproekt 23273	Valderrama Pardo R 18547	Veiga A de A 20562	
Townend P P 24134	Tuomainen L 23949	U S S R Sel' - khozstroiproekt 23274	Valdinoci M 21097	Veillon T P 20563	
Townend P P 24135	Turchin F V 20002	U S S R Sel' - khozstroiproekt 23313	Valdinoci M 22223	Velarde H 25287	
Townes H 22759	Türcke 20731	U S S R Sel' - khozstroiproekt 23313	Valen A 23809	Velazquez C A 19934	
Traitel'man G I A 20851	Turica A 22828	U S S R Sel' - khozstroiproekt 23313	Valen I 23809	Ven R van der 24959	
Tramel T E 23501	Turin A I 21822	U S S R Sovet Ministrov 20364	Valencia M M 23722	Venema C J A 24146	
Trapido H 22705	Turk K L 21410	U S S R Ver-khovnyi Sovet Prezidium 25156	Valentin J 20217	Venge O 22090	
Trauth F 23719	Turk K L 23992	United Nations Commission of Enquiry on the Coca Leaf 25659	Valentine D H 25880	Venkataratnam B 25038	
Trautmann H 20043	Turk K L 25378	United Nations Economic and Social Council 25650	Valle O 19208	Venn J A J 21360	
Traversi B A 18603	Turnbull J S 23764	United Provinces Cane Development Dept 24915	Vallee J 24143	Venn J A J 22255	
Trawinski A 21216	Turnbull R F 20852	U S Congress House Committee to Investigate Use of Chemicals in Food Products 23876	Vallega J 19458	Ver R Z 21613	
Tregubov V 20636	Turner A B 19706	U S Geological Survey 20052	Valset K 19399	Verbeek W A 21099	
Trehan Y N 25035	Turner A M 19497	U S Geological Survey 20311	Van Blomme-stein J A 19821	Verdcourt B 18336	
Tremil' A G 22675	Turner B L 18334	U S Geological Survey 20312	Van Bomel L A 23766	Verdon J 25822	
Tremil' F 21343	Turner C W 23094	U S Geological Survey 20313	Van Camp J L 20460	Verduyn Lunel F A 19578	
Tremil' F 21533	Turner F 25073	U S Geological Survey 20314	Van Clute J 24251	Vergani A R 22589	
Trenchi H 21982	Turner H A 25461	U S National Commission for UNESCO 23386	Vandecaveye S C 20142	Vergani A R 22760	
Trenchi H 21983	Turner J 21344	U S Patent Off 19398	Vandecruys A 23176	Verge J 21693	
Trenk F B 20526	Turner P J 21681	U S Patent Off 19461	Vandendael P 24973	Verge J 21805	
Trenk F B 20726	Turner S G 22249	U S President (H S Truman) 25286	Van den Heever D J 23372	Verhey C 18906	
Trepel 21227	Turner Sir J 23461	U S President's Water Resources Policy Commission 24678	Vandenhende J 21098	Verhoeven P 23577	
Trepp W 19192	Turner W P Jr 24288	Universidad Nacional de Cuyo 18457	Van der Merwe 20218	Vermillion G 18914	
Tressler D K 23551	Tuschhoff O 22528	Upholt W M 22428	Van der Merwe J H 22126	Vermillion M T 18548	
Trew E M Jr 19193	Tuschhoff O 22529	Uppsala Läns Hushållnings-sällskap 25713	Van der Post A P 25775	Vermont Commissioner of Agriculture 25901	
Triana J V 20727	Tussing E N 25283	Urban Fernandez R 25116	Vanderwaeren R 24252	Verrall A F 20898	
Trigg R S 23460	Tuyman D S 25423	Uriona N C 20003	Van d Heever L W 21537	Verrier M L 22996	
Trint G E 19058	Twomey T P J 23765	Uroso R d' 19820	Van Dreser L M 19230	Versluys J O N 24550	
Triplet J F 24464	Tyner C 21345	Ushakov A F 19229	Van Dyke A W 24278	Vervenne B van A 25425	
Triulzi G A 22123	Tyrer T G 25449	Usuelli F 21096	Van Dyne G W 25776	Veselov V I 21724	
Trocme S 18747	Tzschacher W 21228	Usuelli F 25853	Van Heerden F G 23275	Vesterinen E 20532	
Troitskii B V 21757	Ubaldi L 21261	Usuelli F 25854	Van Horn R 18459	Vial E E 23503	
Troll H J 19184	Ube Y 21346	Usuelli F 25855	Vanpoperynghe L 20399	Vianello G 21234	
Trolle B 23720	Ubisch J von 20697	Uvarov N V 20823	Van Roekel H 21945	Vibrans F C 24637	
Tromp H 20459	Ubisch J von 20822	Vadé S 19281	Van Roekel H 21995	Vicens 25714	
Troshchanin P G 18546	Uchida S 23012	Vadé S 19707	Van Someren E C C 22774	Vicinella J 24994	
Trofshenko I V 20588	Ucko B 23780	Vadé S 19708	Van Wagenen A 24790	Vicini L 22761	
Troupin G 18238	Udall D H 21534	Vagac V 23429	Varga A 24144	Vickers M 21928	
Trout G M 23947	Ueki K 19378	Vargas C C 19822	Varga A 24145	Victoria Forests 20533	
Trout G M 23948	Uemura M 24466	Varney H H 19033	Vargas V 23429	Commission 20533	
Trouvelot B 22680	Uganda Forest Dept 20527	Varney H H 23859	Varnes C C 19822	Vidalon G C 19907	
Trouvelot B 22681	Uganda Survey Land and Mines Dept 25379	Varona A P 24754	Varney H H 23859	Vidart D 25539	
True L G 22124	Uggen O 20638	Varona J 20316	Vasak O R 19033	Vidhyarthi S D 24732	
Trueman K 25929	Ugglas C af 25424	Vas'kov I G 20531	Vasil'chenko I T 18335	Vietze E 19935	
Trulsson G 22196	Uhlirs J 25074	Vas'kov I G 20531	Vasilenko T S 19392	Viel G 22329	
Truog E 20216	Ul'ianovskafa V A 25980	Vas'kovskii A P 18638	Vasil'ev I S 19956	Viel G 22330	
Tsao T H 18905	Ullmann G 24136	Vasquez G J 23810	Vasil'ev I S 19957	Viel G 22430	
TSebril M P 19460	Ullonska E 24467	Vasseur A 21347	Vasil'ev I S 19957	Vigil C C 19039	
Tsi C S 22927	Ulrich K 24918	Vassogne G 23552	Vasil'ev I S 19957	Vignard M R 20411	
TSikoto I A 25376	Ulrich W 25390	Vaupell-Olsen J 19282	Vasil'eva I A 20317	Vijfvinkel L 19462	
TSifsin N V 18239	Ulvesli O 21045	Vaurie P 22683	Vasina A N 22429	Villagomez F 24733	
TSfurupa I G 20001	Underwood E J 20112	Vavich M G 25856	Vas'kov I G 20531	Villamil G F 18973	
Tsuda Y 18240	Underwood E J 25852	Vazart J 18682	Vas'kovskii A P 18638	Villamil 18734	
Tsukamura M 18241	Underwood P C 21528	Vazhenin I G 18942	Vasquez G J 23810	Garcia F 19879	
Tsukino S 22125	Unilever 24695	Vázquez I 21758	Vasseur A 21347	Villamil 18734	
Tsuneki K 22869	Union of South Africa Dept of Agriculture 21272	Vecher A S 23723	Vassogne G 23552	Villamizar Jaramillo A 19187	
Tsutsumi C 23406	Union of South Africa Dept of Forestry 20528	Veen A G van 24731	Vaupell-Olsen J 19282	Villanes 24921	
Tsutsumi C 24412	Union of South Africa Ministry of Health 21229	Veenendaal H 20589	Vaurie P 22683	Villars M H del 18337	
TSygulev V I 19059	Union of South Africa Dept of Forestry 20904	Veenstra J A 21960	Vavich M G 25856	Villegas V 23314	
TSynkov M 25377	U S S R Sel' - khozstroiproekt 23269	Veenstra J A 21960	Vazart J 18682	Villeneuve P 22256	
Tucker M F 25710	U S S R Sel' - khozstroiproekt 23270	Valat 19400	Vazhenin I G 18942	Vinas T E 24214	
Tucker R 24585	U S S R Sel' - khozstroiproekt 23271		Vázquez I 21758	Vince D 19908	
Tucker W B 25243	U S S R Sel' - khozstroiproekt 23272		Vecher A S 23723	Vincent G 20674	
Tufts L E 23803	U S S R Sel' - khozstroiproekt 23272		Veen A G van 24731	Vincent G 24734	
Tugwell R L 21984	U S S R Sel' - khozstroiproekt 23272		Veenendaal H 20589	Vincent L 20044	
Tull 23064	U S S R Sel' - khozstroiproekt 23272		Veenstra J A 21960	Vincent L E 19341	
Tullin V 18941	U S S R Sel' - khozstroiproekt 23272		Veenstra J A 21960	Vincent L E 22431	
Tumin M M 25538	U S S R Sel' - khozstroiproekt 23272		Veenstra J A 21960	Vincent W H 25426	
Tunblad B 22527	U S S R Sel' - khozstroiproekt 23272		Veenstra J A 21960	Vindt J 18257	
Tunblad B 25895	U S S R Sel' - khozstroiproekt 23272		Veenstra J A 21960	Vine B de 22257	
Tunisia Serv Botanique et Agronomique 18243	U S S R Sel' - khozstroiproekt 23272		Veenstra J A 21960	Vine R 20219	
Tunisia Serv Botanique et Agronomique 19799	U S S R Sel' - khozstroiproekt 23272		Veenstra J A 21960		
Tunisia Serv Botanique et Agronomique 19799	U S S R Sel' - khozstroiproekt 23272		Veenstra J A 21960		



Item	Item	Item	Item	Item
Vine V 24791	Waldken H H 22936	Washington 22059	Weizmann B 25759	White W L 18377
Violetto A 23507	Walker A 19333	State College	Welander E 22939	Whitehead E I 18996
Virginia State 23767	Walker F 23860	Poultry Coun- cil	Welch J H 19826	Whitehead G B 22435
Dairymen's As- sociation	Walker F W 24202	Washington State 23277	Welch J H 24254	Whitehead G B 22919
Visco S 25857	Walker J 19711	College	Wellhausen E J 18707	Whitell A R 21891
Visoria O 25777	Walker J C 18551	Poultry Coun- cil	Wellhausen E J 18736	Whitlow S 23140
Visschers A J 18549	Walker L H 24318	Washington Uni- 25885	Wellhausen E J 19041	Whitmore R 22197
Visser W C 19941	Walker P 23223	versity	Wellington G H 24554	Whitnall A B M 22135
Vites L S 19463	Walker R H 25990	Engineering	Wellington G H 24639	Whittaker V P 21803
Vittum M T 19980	Walkup E L 21698	Experiment Sta- tion	Wellman H R 25779	Whittier E O 21246
Vives M 22058	Walkup H G 24793	Wasmuth G V 23282	Wells K F 21544	Whittier E O 23768
Vives M 24147	Wallace A 18914	Wasscher J 19713	Wells M J 25715	Whittinghill M 22765
Vivino A E 22471	Wallace A F 24922	Wasser C H 19189	Wells O N 21349	Whittle T E 22060
Vladimirovich V P	Wallace B 22763	Wasserburger 22938	Wells P A 23434	Whittleston W G 21545
Vliet M van der 19909	Wallace G J 25902	H J	Welsh T M 25523	Whittleston W G 23096
Vliet R W 19709	Wallace H D 21393	Wasserthall- Zuccari E 21704	Welte E 22690	Whorton W J 25383
Voegeli H 20698	Wallace J M 18604	von	Wenck 22590	Whorton W J 25383
Voelskow P 20999	Wallace M E 24935	Watanabe S 22689	Wendelburg T R 19716	Wickard C R 23344
Voevoda D K 23141	Wallace T C 20220	Waterhouse D F 22764	Wennblom R D 20763	Wickard C R 23346
Vogel F 24148	Wallace W D 20795	Waters W T 20629	Wentworth E N 19191	Wickliffe J A 24347
Vogel G 22258	Wallen V R 18552	Waters W T 20630	Wenzl H 22433	Widmer R 24157
Vogel P 19736	Wallenfeldt E 23890	Waterschoot H 25322	Wepfer K 23177	Wiebosch W A 18912
Vogelsang E G 25935	Wallenfels 22687	Waterson J 23892	Werkenthin T A 24825	Wielen H G W 25658
Vogt W 19823	Waller E 19040	Watson J 23892	Werner H J 21685	van der
Vogt W 20367	Waller J F 24253	Watson J 23892	Werner R G 18246	Wieler E 23278
Vohs R L 22220	Wallis G C 21101	Watkins D E 25656	Werner R G 18358	Wieringa K T 18247
Voigt G G 25778	Wallrich M M 23902	Watkins J M 19190	Werner R J 23817	Wieser R F 20699
Voigt R F 18892	Wally-van 24150	Watson A 22098	Wessels A J J 24154	Wiethe H 21807
Voigtlander H 23724	Vreeswijk A C	Watson Sir A 23387	West A S 22290	Wieting C M 25716
Volk J 22829	Walpole L J 25382	Watson Sir J S 20222	West C J 20962	Wiggin D C Jr 23287
Volin A 22530	Walrecht 22937	Watson Sir J S 20222	West E 18462	Wiggins G E 23921
Volodenkov F I 20836	Walsh E A 19228	Watson Sir J S 24542	West G F 24155	Wight J 19283
Volokov A N 22684	Walsh M J 25823	Watson M 25657	West W J 23069	Wightman R 23994
Volz F E 23469	Walsh R M 24735	Watt K D 24152	West Bengal 24156	Wilbaux R 24736
Vomsattel M 22531	Wilstedt L 19188	Watt R F 20676	Home [Publi- city) Dept	Wilbur J L Jr 22168
Vondell J H 24792	Walt G P v d 20221	Watts L F 20461	Westbrook E C 20223	Wilbur W D 19341
Voronsov A I 22685	Walter E E 25654	Watts R M 21540	Westdal P H 22940	Wilcox L V 19959
Vorster P W 19824	Walter F X 21909	Watts R M 21541	Wester W H 23388	Wilcox M 19718
Vouk V 18683	Walter WG 25039	Waygood E R 18943	Western Grow- ers Association 25288	Wilde S A 19960
Vries de 21861	Walters C S 20899	Weatherby H 20751	Western Samoa 25780	Wilder R 25789
Vries V de 18338	Walters G H 20368	Weaver E K 25946	Collector of Customs	Wilder R M 25853
Vrijburg B 21235	Walters L E 24551	Weaver L E 21862	Westgaard P 21385	Wildhaber H 24158
Vroman H B 20253	Walters M B 18339	Weaver L O 18554	Westhues M 21237	Wilén R 20963
Vrtar B 19684	Walther S 20796	Weaver L O 18555	Westphal W 21806	Wiley W J 23950
Vuillaume R 21770	Walton H V 23276	Webb B H 23768	Wettinger 22941	Wilhelm A F 18913
Vujičić L 20853	Wamble A C 24718	Webb Mrs E R 22533	Wettstein U von 18697	Wilhelm J 21546
Vukolov A 23142	Wandel G 18245	Webb FR 19714	Wettstein W 20564	Wilhelm S 18556
	Wang C F 25798	Webb G 20369	Wetzel A 21686	Wilhelmj C M 21684
	Wangaard F F 21021	Webb R T 24924	Wever J de 24974	Wilhelmj C M 21687
	Wangerin A 24344	Webber A J 20318	Weyers H 21238	Wilhelmson R 23161
	Wanner 25486	Weber A D 24553	Whale W G 18905	Wilhelmy O Jr 25812
	Ward A H 21538	Weber N A 18661	Wheeler A C 21634	Wilkenning E A 25723
	Ward D E 21539	Webre A L 24925	Wheeler A G 22534	Wilkins A H 20748
	Ward E N 21990	Webster H D 21542	Wherry L L 24796	Wilkins H F 21239
	Ward J D U 19712	Webster N 19228	Whetstone R 23095	Wilkins H F 22170
	Ward J M 23134	Webster R L 22432	Whicher O 18164	Wilkins W H 18248
	Wardle N J 24151	Weck J 20534	Whillies J 23296	Wilkinson I A 23392
	Wardrop G 25655	Wedderspoon 23135	Whitaker C 24346	Will R R 25289
	Wardrop G 23066	Wedding 20733	Whitcomb W D 22591	Will R R 25549
	Wardrop G 23067	Wedemeyer G 24795	White A C 22535	Wille J E 22436
	Warington K 18910	Wedgeworth S L 19002	White A H 23787	Wille R 21240
	Wark D C 18553	Wege C 18966	White A N 18463	Wille R 21351
	Warner E E 23902	Wegener W 24153	White A N 24234	Willemse C 22967
	Warner K F 24552	Wehner A 21348	White D G 19334	Willemse C 22968
	Warren C 24794	Weibel R O 23435	White G H 23993	Willemson W 19106
	Warren G L 25711	Weidenmüller H 21986	White H 21350	Willenberg S 22259
	Warren G T 24923	Weidenmüller H 21987	White H C 23473	Williams C B 22691
	Warren L A 24345	Weidinger A 18935	White H D 23152	Williams C B 22942
	Warren R 23238	Weidner H 22784	White H E 18535	Williams C J 20019
	Warren S W 23502	Weinhausen K 19715	White H F 20088	Williams C T 23727
	Warwick E J 22191	Weinstein B 23947	White H H 19192	Williams D 22316
	Washauer B 24215	Weinstock M 21988	White J G 20376	Williams E W 23554
	Washington State 22191	Weisser H 23788	White J I 24363	Williams J F 25859
	College	Weiss F 24926	White J M 18967	Williams K T 24214
	Institute of Ag- ricultural	Weiss FA 18461	White L 24359	Williams L O 23413
	Sciences	Weissenrieder FX	White M W 22950	Williams M B 20319
		Weitzel G 25824		Williams R 20752
				Williams R H 25659
				Williams R O 19719
				Williams T 24348



	Item		Item		Item		Item		Item
Williams W R	19193	Winters R W	25942	Woods A B	18224	Yamamoto R	23557	Zaneveld J S	18360
Williford J S	20797	Winther J E	21093	Woods R	25826	Yamasaki T	20435	Zanon K W	18915
Willis P S	23389	Wire H C	25296	Woodward H K	21379	Yamoto M	25388	Zapata Agurto	23995
Willis S J	22608	Wire H P	22224	Woody C C	23302	Yang J T	24393	C A	
Willits C O	23434	Wirth	23579	Woody C C	23310	Yarham E R	20591	Zarubin A F	19474
Willmann C	22592	Wirth	23580	World Forestry	20462	Yatazawa M	23436	Zarubin V A	23728
Willmott S	21547	Wirth	25046	Congress		Yates F	25998	Zarudnaya K I	18945
Wilson B S	25660	Wirth J	23162	World Health	22439	Yates F	25999	Zaslavskii M N	20370
Wilson C	23013	Wirthmore Dairy	23769	Organization		Yaw W H	23095	Zavagli V	21242
Wilson F C	19284	Serv Dept		World Health	22785	Yeager A F	19827	Zavoral H G	22260
Wilson G	19720	Wirriger W	22421	Organization		Yeaman A F	25158	Zedet M	20966
Wilson G F	22437	Wisdom G N	22273	World Health	22997	Yeo E J	25827	Zedet M	24640
Wilson G S	23891	Wisecarver R R	25041	Organization		Yhiguez T M	19978	Zeeuw A de	20436
Wilson J B	21548	Wister J C	19723	World Health	22997	Yohalem A E	23862	Zegarra Russo	19362
Wilson J B	24216	Wit J J D de	21551	Organization		Yohe R S	21039	Zehnder J	20615
Wilson J D	18445	Witney D	25384	Organization		Yohe R S	23863	Zekhnov M I	22998
Wilson J D	18446	Witschi F	22536	Organization		Yohe R S	24797	Zeldenrust J	21554
Wilson J D	18464	Witt M	25427	Organization		Yorke L C	24798	Zelenski G	22127
Wilson J D	18465	Wittich W	20614	Organization		Yosikawa S	23414	Zellhan H	20854
Wilson J D	22061	Wittka F	24737	Organization		Yosikawa S	23415	Zendy-Zucker F	20437
Wilson M	23288	Wittcock M	19724	Organization		Yost L J	19361	Zennaro A	20089
Wilson M L	25661	Witts A C G	20964	Organization		Young C A Jr	19729	Zennaro S	24984
Wilson M L	25662	Witzel S A	23279	Organization		Young C M	25812	Zepeda M	24555
Wilson S G	21549	Wlczko H	19285	Organization		Young D W	19844	Zetty M	21725
Wilson W R	21338	Wloczewski T	20677	Organization		Young F N	22692	Zhanderkin A I	22128
Wilton W	19042	Wloczewski T	20678	Organization		Young H P	23905	Zibi I R H	19338
Wilton R C	23151	Woke P A	22351	Organization		Young P R	19286	Ziegenspeck H	18345
Wilz P	21550	Wold R L	23136	Organization		Young R A	23864	Ziegler A W	18916
Wimbush S H	20590	Wolf	21352	Organization		Young R H	22969	Ziegler L F	25717
Winckel M	23427	Wolf D E	18914	Organization		Young V A	19194	Ziegler P T	24556
Windisch W	24255	Wolf L J	23070	Organization		Young W S	23558	Ziegler R J	22538
Winfield L G	22076	Wolfenbarger	20382	Organization		Youngner J S	21990	Zienkiewicz H	18485
Winfield L G	22099	D O		Organization		Ystgaard O M	23771	Zimmermann E	18467
Winfrey J W	23824	Wolf O	23555	Organization		Yui N H	24393	Zimmermann J	21415
Wing A S	19722	Wolff O	24927	Organization		Yuill W J	21355	Zindel W	21555
Winge O	18737	Wolffhugel K	22593	Organization		Yunus C M	22487	Zipf R L	24478
Winkelmann	19335	Woltz W G	19248	Organization		Zabala S	18605	Zobrist L	23178
Winkler	25663	Wood C A	19465	Organization		Zaffanella	20003	Zocher A	24975
Winkler A J	19433	Wood C A	23770	Organization		M J R		Zoete de & Gor-	23729
Winkler H	19063	Wood C A	23861	Organization		Zagreb Institute	19172	ton	
Winlund E S	20936	Wood C W	19725	Organization		for Research in		Zucchini I	25665
Winter A	21241	Wood E A Jr	22793	Organization		Plant Produc-		Zucher T F	21103
Winter A R	22062	Wood G B	24476	Organization		tion		Zucker F A	21688
Winter G	20032	Wood J W	24826	Organization		Zaitsev A I	20937	Zucker L M	21103
Winteringham	22438	Wood L W	21031	Organization		Zakharin A G	23347	Zuckermayr	20535
F P W		Wood P	23229	Organization		Zakharova E I	18439	Zuhlke R S	20536
Winterringer	18340	Wood R O	24996	Organization		Zakopal J	18557	Zullig H A	19340
G S		Wood R M	21771	Organization		Zambrano C	24477	Zuluaga P A	19467
Winterringer	18341	Wood W J	24159	Organization		Zamcheck N	25798	Zumer L	20537
G S		Woodard E F	25511	Organization		Zander H	25664	Zwart S G	25937
Winters H F	19755	Woodbridge	20911	Organization		Zander R	19337	Zweigelt F	19882
Winters L M	21037	W W		Organization				Zwerenz F	18807
Winters L M	21038	Woodcock H D	19726	Organization				Zwijnenberg	21554
		Woodruff W E	19727	Organization				H A	

















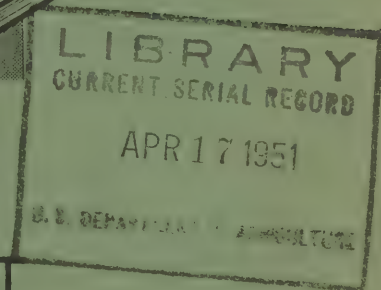






71  
19  
71

# BIBLIOGRAPHY OF AGRICULTURE



U.S. DEPARTMENT  
OF AGRICULTURE  
LIBRARY





The subject index for volume 15 of the Bibliography of Agriculture will appear as number 12 of volume 15, the issue of December 1951.

Abbreviations used in this publication are from the United States Department of Agriculture Bibliographical Bulletin 12, List of Serials Currently Received in the Library of the United States Department of Agriculture, November 1, 1949. June 1950.

Call numbers following the citations are those of the United States Department of Agriculture Library. Please use them when requesting publications on loan from the Library.

Except for printed publications of the Department of Agriculture which are usually available in limited supply for free distribution, the publications listed herein are not available for free distribution from the Department. However, photoprint or microfilm copies of any publication listed may be obtained from the Library. Copying charges for each periodical article or book are:

**MICROFILMS:**

\$1.00 for each 50 pages or fraction thereof from a single article or book.

**PHOTOPRINTS:**

\$1.00 for each 10 pages or fraction thereof from a single article or book.

**ALL CHARGES ARE CASH WITH ORDER.** (Only Federal agencies are exempt.)

Enclose payment in cash, library coupon, check, or money order drawn to the Treasurer of the United States.

**LIBRARY COUPONS**—United States Department of Agriculture Library coupons valued at \$1.00 each may be ordered in any quantity.

The printing of this publication has been approved by the Director of the Bureau of the Budget. (Jan. 11, 1950).



UNITED STATES DEPARTMENT OF AGRICULTURE

LIBRARY

BIBLIOGRAPHY OF AGRICULTURE

Vol. 15

April 1951  
Items 26000-33688

No. 4

CONTENTS

	Item		Item		Item
Plant Science	26000-27814	Soil Management	27910	Seasoning, Conditioning and	
Systematic and Geographic		Soil Fertility	27933	Finishing	28641
Botany	26058	Tilth and Tillage	28065	Wood Preservation and Damage	
Spermatophytes	26072	Drainage, Irrigation, Water			28662
Pteridophytes	26143	Supply, etc.	28083	Forest Products	28685
Bryophytes	26146	Erosion and Control	28158	Lumber and Rough Products	
Algae	26170	Sanitation	28209		28694
Fungi and Lichens	26177	Materials for Soil Improvement		Building Construction	28705
Pathology	26202		28217	Veneers, Plywood and	
Fungus Diseases	26289	Primary Materials	28225	Adhesives	28712
Bacterial Diseases	26480	Secondary and Minor Element		Furniture	28742
Virus Diseases	26501	Materials	28235	Containers	28747
Nematodes	26564	Mixed Fertilizers and Fertilizer		Pulp and Paper	28753
Ecology	26579	Technology	28239	Chemical Products and	
Morphology, Anatomy, and		Fertilizer Statistics	28242	Distillates	28793
Cytology	26604	Manures and Composts	28255	Naval Stores	28803
Genetics	26652	Forestry	28277-28873	Other Forest Products	28807
Physiology	26710	General	28277	Wood Technology	28842
Biochemistry	26904	Education	28301	Properties and Structure	28859
Field Crops	26939	Policies, Programs, Administra-		Animal Industry	28874-30148
Cereals	26962	tion	28305	Breeds and Breeding	28874
Fiber Crops	27040	Legislation and Taxation	28339	Feeds and Feeding	28894
Forage and Grasses	27073	Description and Resources	28341	Veterinary Medicine	28953
Oil Crops	27179	Individual Genera	28353	Miscellaneous	29052
Sugar Crops	27188	Forest Management and Finance		Cattle	29069
Tobacco	27211		28370	Breeds and Breeding	29069
Horticultural Crops	27221	Farm Woodlands	28405	Feeds and Feeding	29170
Fruits	27245	Mensuration	28421	Veterinary Medicine	29219
Citrus and Subtropical	27297	Aerial Surveying and Photog-		Miscellaneous	29364
Deciduous	27312	raphy	28432	Dogs and Cats	29423
Small	27344	Silviculture	28434	Breeds and Breeding	29423
Nuts	27385	Silvicultural Practices	28460	Feeds and Feeding	29439
Shade Trees and Ornamental		Seeds and Planting	28480	Veterinary Medicine	
Plants					
Vegetables					
Weeds and Poison					
Miscellaneous					
Soils and Fertilize					
Soil Science					
Soil Physics					
Soil Chemistry					
Soil Biology					
Soil-Plant-Anir					
ships					
Soil Genesis, F					
ication, and M					

For sale



	Item		Item		Item
Veterinary Medicine	29621	Walls and Fences	31349	Seeds	32758
Miscellaneous	29622	Utilities	31355	Sugar and Sirups	32780
Poultry	29624	Electricity and Electrification	31356	Tobacco	32871
Breeds and Breeding	29624	Heating, Lighting, and Radiation	31375	Miscellaneous	32893
Feeds and Feeding	29686			Agricultural Economics and Rural	
Veterinary Medicine	29737	Power Plants, Motors and		Sociology	32910-33511
Miscellaneous	29834	Engines	31381	Agricultural Finance	32923
Rabbits	29956	Sewage and Waste Disposal	31385	Credit	32925
Breeds and Breeding	29956	Telephones	31386	Income	32942
Feeds and Feeding	29965	Water Supply	31390	Inflation	32947
Veterinary Medicine	29970	Agricultural Products: Processing,		Insurance	32948
Miscellaneous	29980	Distribution, and Statistics	31396-	Taxation	32958
Sheep and Goats	29987		32909	Agricultural Labor and Wages	
Breeds and Breeding	29987	Analysis and Composition	31424		32982
Feeds and Feeding	30022	Consumption, etc.	31449	Agriculture - Situation, Policies,	
Veterinary Medicine	30030	Distribution, etc.	31457	and Programs	33009
Miscellaneous	30054	Grading, etc.	31496	Subsidies	33136
Swine	30075	Packing and Packaging	31503	Cost and Standard of Living	33139
Breeds and Breeding	30075	Prices, etc.	31508	Farm Management and Land	
Feeds and Feeding	30086	Processing and Storage	31534	Economics	33141
Veterinary Medicine	30104	Statistics	31592	Bookkeeping and Records	33225
Miscellaneous	30135	Beverages and Condiments	31606	Costs and Returns	33227
Entomology	30149-31095	Dairy Products	31684	Land Settlement and Colonization	
General - Economic	30203	Analysis and Composition	31742		33255
Apiculture and Apis Mellifera	30328	Consumption, etc.	31797	Land Tenure	33264
Arachnida, etc.	30470	Distribution, etc.	31802	Land Utilization	33297
Coleoptera	30524	Grading, etc.	31833	Land Values, etc.	33310
Diptera	30664	Packing and Packaging	31857	Population	33318
Culicidae	30751	Prices, etc.	31864	Rural Social Organization	33321
Hemiptera	30790	Processing and Storage	31876	Human Ecology	33330
Hymenoptera	30859	Statistics	31954	Institutions	33342
Lepidoptera	30911	Feed and Forage Crops	31598	Leadership	33421
Orthoptera	31024	Fibers and Textiles	32003	Rural Organizations and	
Sericulture and the Silkworm	31054	Fruits, Vegetables, and Nuts	32124	Movements	33422
Smaller Orders	31062	Analysis and Composition	32161	Rural Social Psychology	33475
Agricultural Engineering	31096-	Consumption, etc.	32182	Trade, Foreign and International	
	31395	Distribution, etc.	32188		33476
General and Miscellaneous	31096	Grading, etc.	32242	Food and Human Nutrition	33512-
Machines and Equipment	31106	Packing and Packaging	32254		33574
Animal Husbandry	31155	Prices, etc.	32263	Food Habits	33548
Cultivation and Tillage	31181	Processing and Storage	32265	Nutritive and Vitamin Content	
Fertilizer and Seed Distributors	31191	Statistics	32324		33551
Harvesting	31201	Grain and Grain Products	32336	Miscellaneous	33575-33688
Land Clearing Equipment	31223	Honey and Beeswax	32453	History and Biography	33607
Processing Equipment Used on		Livestock and Livestock Products		Home Management	33642
the Farm	31225	Analysis and Composition	32467	International Relations	33649
Repair, Maintenance, and Con-		Consumption, etc.	32500	Meteorology	33655
struction	31238	Distribution, etc.	32509	Personnel	33666
Spraying and Dusting	31246	Grading, etc.	32511	Research	33667
Vehicles	31252	Packing and Packaging	32524	Statistics	33684
Structures and Rural Housing	31281	Prices, etc.	32537	U. S. D. A. Publications	p. 164
Animal Shelters and Service		Processing and Storage	32547	State Agr. Expt. Sta. Publications	
Buildings	31288	Statistics	32556		p. 169
Farmhouses and Farmsteads	31329	Oils and Oilseeds	32565	State Agr. Ext. Serv. Publications	
Greenhouses and Plant Service		Poultry and Poultry Products			p. 172
Buildings	31332		32639	Food and Agr. Organ. of the U. N.	
Materials and Methods	31337	Rubber and Rubber Substitutes	32731		p. 173
Storage Structures	31340			AUTHOR INDEX	p. 175



## PLANT SCIENCE

## GENERAL

- 26000 ANGELY, J. Dictionary of technical botanical terms. (In Portuguese.) Rev. da Flora Med. 26:511-544. (Cont.) Dec.1949. 71.8 R32
- 26001 ARESES VIDAL, R. Contribución al conocimiento de las plantas exóticas cultivadas en España. Montes 6:607-613. (Cont.) Sept./Oct.1950. 99.8 M763
- 26002 BANNISTER, B. Tree-ring dates for the Gallina area, New Mexico. Tree-Ring B. 17:21-24. Jan. 1951. 99.8 T713
- 26003 BARRINGTON, M. Of sundrie trees. Trees & New Earth 14:137-140. Winter 1950/51. 99.8 T714  
Trees in literature.
- 26004 BEER. Misteln zur weihnacht, in sage und wirklichkeit. Gart.-Z. Illus. Flora 73:137-138. Dec. 1950. 80 G1991
- 26005 BERTSCH, K. Der pollenanalytische nachweis des getreidebaus. Deut. Bot. Gesell. Ber. 63:10-12. June 5, 1950. 451 D48
- 26006 BRETSCHNEIDER, L. H. Elektronenmikroskopische untersuchung der pflanzenzellen. Nederland. Akad. van Wetensch. Proc. 53:1476-1489. Ref. Nov.1950. 503 Am8P  
English summary.
- 26007 BRINGMANN, G. Methoden der selektion zur steigerung der antbiotischen wirksamkeit bei Penicillium notatum. Arch. f. Mikrobiol. 15:85-148. Ref. 1950. 442.8 Ar26
- 26008 BUFFA, G. Hail protection and its technical organization. (In Italian.) Cam. di Com. Indus. e Agr. Vicenza. Not. Econ. 5(19):3-8. Oct.1, 1950. 287 V662
- 26009 CATALANO, G. Le concept d'individu en botanique et l'interpretation systematique des variétés et des races agricoles. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):487. 1950. 388 C765
- 26010 CHATTERS, R. M. Oxalic acid as a destaining agent for the ferric chloride tannic acid technic. Stain Technol. 26:83. Jan.1951. 442.8 St1  
In plant specimens.
- 26011 CLAUS, E. P., and SMALDONE, J. R. Studies on the hayfever plants of western Pennsylvania. II. Trees pollinating in early spring. Pa. Acad. Sci. Proc. 24:30-35. 1950. 500 P383
- 26012 CUMMINS, G. B., and others. Textbook of intermediate plant science. Minneapolis, Burgess, 1950. 222 p. 463 C91  
G. A. Gries, S. N. Postlewait, and F. W. Stearns, joint authors.
- 26013 DELCAMBE, L. L'itutine, nouvel antibiotique produit par un Bacillus subtilis. Soc. de Biol. Compt. Rend. 144:1431-1434. Oct.1950. 442.9 P21
- 26014 EPLING, C., and CATLIN, W. The relation of taxonomic method to an explanation of organic evolution. Heredity 4:312-325. Ref. Dec.1950. 443.8 H42
- 26015 FERGUSON, C. W., JR. Early height growth in Douglas fir. Tree-Ring B. 17:18-20. Jan.1951. 99.8 T713
- 26016 GRACE, G. A visit to the Royal Botanical Gardens, Edinburgh, Scotland. Amer. Rhododendron Soc. Q. B. 4:112-114. July 15, 1950. 81 Am398
- 26017 GRAM, K., and JESSEN, K. Vilde planter i Norden. v. 3. Ed. 2, rev. and enl. København, G.E.C. Gad. 1951. 703 p. 459.1 G76
- 26018 HANSEN, H. P. Pollen analysis of three bogs on Vancouver Island, Canada. J. Ecol. 38:270-276. Ref. Nov.1950. 450 J829
- 26019 HARLAN, J. R. New World crop plants in Asia Minor. Sci. Mon. 72:87-89. Feb.1951. 470 Sci23
- 26020 HOSOYA, S., and others. A new antibiotic "reticul" produced by Streptomyces reticul. Jap. J. Expt. Med. 20:327-335. Ref. Dec.30, 1949. 448.8 J272  
M. Soeda, N. Komatsu, and Y. Sonoda, joint authors.
- 26021 JOHANNES, H. Beiträge zur vitalfärbung von pilzmeyellen. III. Die vitalfärbung von Phycomyces blakesleanus mit acridinorange. Arch. f. Mikrobiol. 15:13-41. Ref. 1950. 442.8 Ar26
- 26022 KAPUSTINSKI, A. F. Antibiotic properties of poppy blossoms. (In Russian.) Priroda 39(7):68. July 1950. 410 P933
- Investigations at Laboratorija Zonal'noi Stanfisi Vsesojuznogo Instituta Lekarstvennykh i Aromaticheskikh Rastenii.
- 26023 KLUMPP, B., and WETZEL, W. Über mesozoische und altpretertiäre treibhölzer Norddeutschlands. Natwiss. Ver. f. Schleswig-Holstein. Schr. 24(2):92-99. 1950. 509 K54
- 26024 KOSCINSKI, M. E. Christmas tree. (In Portuguese.) Chacaras e Quintais 82:706-707. Dec.15, 1950. 9.2 C34  
Brazil.
- 26025 KROMDIJK, G. Flowers and plants in the Christmas legend. (In Dutch.) Plattelands-Post 6(50):15. Dec.23, 1950. 12 P69
- 26026 LAL, K. N., and SUBBA RAO, M. S. A rapid method of leaf area determination. Nature [London] 167:72. Ref. Jan.13, 1951. 472 N21
- 26027 LEVADITI, C., and others. Antibiotiques d'origine fongique, bactérienne ou végétale (autres que la pénicilline et la streptomycine). Paris, Baillière, 1950. 151 p. 396 L57  
A. Vaisman, J. H. Evano, and J. Veillet, joint authors.
- 26028 LÓPEZ GUILLÉN, J. Aspecto fitogeográfico en la obra de Raimondi. Soc. Qum. del Peru. B. 16(3):224-244. Sept.1950. 385 S015
- 26029 LUNDBLAD, B. On a fossil Selaginella from the Rhaetic of Hyllinge, Scania. Svensk Bot. Tidskr. 44:477-487. Ref. 1950. 450 Sv2
- 26030 MCLANE, S. R., JR. Higher polyethylene glycols as a water soluble matrix for sectioning fresh or fixed plant tissues. Stain Technol. 26:63-64. Jan.1951. 442.8 St1
- 26031 MANCINI, M. Hail protection and its economic organization. (In Italian.) Cam. di Com. Indus. e Agr. Vicenza. Not. Econ. 5(19):8-10. Oct.1, 1950. 287 V662
- 26032 MILNE, L. J., and MILNE, M. J. The eelgrass [Zostera marina] catastrophe. Sci. Amer. 184:52-55. Jan.1951. 470 Sci25
- 26033 NAVIA CARVAJAL, G. Elogio del arbol. Rev. Agr. y Ganad. 12(129):25-26. Oct.1950. 9.4 R327
- 26034 NEYBURG, M. F. On the flora and stratigraphy of the Upper Paleozoic and Jurassic eras of Tannu-Tuva. (In Russian.) Akad. Nauk SSSR. Dok. 74:577-580. Sept.21, 1950. 511 P444A
- 26035 NISHIKAWA, H. Screening tests for antibiotic action of plant extracts. Jap. J. Expt. Med. 20:337-349. Ref. Dec.30, 1949. 448.8 J272
- 26036 PATEL, M. K., KULKARNI, N. B., and GAEKWAD, S. R. Staining bacterial flagella. Cur. Sci. 19:322-323. Oct.1950. 475 Sci23
- 26037 PATTANAIK, S. A simple sand culture equipment for growing rice plants. Cur. Sci. 19:321-322. Oct. 1950. 475 Sci23
- 26038 PLATT, R. Seed pods—living jewelry of the winter countryside. Outdoors Illus. 2:155-161. Nov./Dec. 1950. 410 C162
- 26039 RAO, A. R. Two hitherto unreported plant fossils from the Rajmahal Hills, Bihar. Cur. Sci. 19:378-380. Dec.1950. 475 Sci23
- 26040 RAO, T. N. R. Medicinal & industrial aspects of fungi. J. Sci. & Indus. Res. 9A:418. Nov.1950. 475 J82
- 26041 RIEFKOGEL, R. The bluebonnet [Lupinus subcarnosus]—Texas State flower. Wild Flower 26:70-72. Oct.1950. 451 W642
- 26042 SCHINDLER, H. Betrachtungen über den herbstlichen laubfall. Gartenbauwirtschaft [Wien] 1950:241. Oct.25, 1950. 80 G1936
- 26043 SCHNELL, R. Études préliminaires sur la végétation et la flore des hauts plateaux de Mali (Fouta-Djallon). Inst. Franç. d'Afrique Noire. B. 12:905-926. Ref. Oct.1950. 515 D14
- 26044 SCHULMAN, E. Dendroclimatic histories in the Bryce Canyon area, Utah. Tree-Ring B. 17:1-16. July/Oct.1950. 99.8 T713
- 26045 SINSKAI, E. N. On the concept "variety". (In Russian.) Selek. i Semen. 17(9):30-32. Sept.1950. 61.9 Se5
- 26046 SMITH, C. E., JR. Prehistoric plant remains from Bat Cave [New Mexico]. Harvard U. Bot. Mus. L. 14:157-180. Dec.11, 1950. 451 H262
- 26047 SOBELS, J. C. Nutrition de quelques Myxomycètes en cultures pures et associées et leurs propriétés antibiotiques. Bouda, Koch & Knüttel, 1950. 135 p. 462.02 S01  
Thesis - Utrecht.
- 26048 STANFIELD, J. F. Range and frequency of courses in botany. Turtlox News 29:24-26. Jan.1951. 442.8 T86



26049 STERN, J. The cactophile in the classroom. *Cactus & Succulent J.* 22:175-176. Nov./Dec.1950. 451 C11

26050 STRESHINSKII, M. O. On conditions which originate antagonistic properties of microorganisms [*Penicillium notatum* and *Bacillus subtilis*]. (In Russian.) *Akad. Nauk SSSR. Dok.* 75:295-298. Nov.11,1950. 511 P444A

26051 U. S. BUR. OF PLANT INDUSTRY, SOILS AND AGRICULTURAL ENGINEERING. Report of the chief, 1949/50. Washington,1950. 135 p. 1 P69

26052 VAN HORNE, R. L., and ZOPF, L. C. Water-soluble embedding materials for botanical microtechnique. *Amer. Pharm. Assoc. J. Sci. Ed.* 40:31-34. Ref. Jan.1951. 396.9 Am33J

26053 VASIL'KOV, B. P. On the tea fungus [*Medusomyces gisevi*]. (In Russian.) *Priroda* 39(7):59-60. Ref. July 1950. 410 P933

Chiefly on antibiotic properties.

26054 WAKSMAN, S. A. Antibiotika. *Umschau* 51:8-10. Jan.1,1951. 474 Um7

26055 WAKSMAN, S. A. Investigacion de nuevos agentes quimioterapicos. *Microbiol. Españ.* 3:83-97. 1950. 448.3 M583

Antibiotics.

26056 WILDEMAN, E. DE. Notes pour l'histoire de la botanique et de l'horticulture en Belgique. Bruxelles, 1950. 832 p. (Académie Royale de Belgique. Classe des Sciences. Mémoires. Collection in-8. 2. Sér., t.25, fasc.1) 459.4 W64N

26057 WILLIAMSON, V. H. H. Directions for using a plastic adhesive in mounting pressed botanical specimens. *Canad. Field-Nat.* 64:148-150. July/Aug.1950. 410.9 Ot8

## SYSTEMATIC AND GEOGRAPHIC BOTANY

### General

26058 ALEKSANDROVA, V. D. New data on the flora of the southern island of Novaya Zemlya. (In Russian.) *Moskov. Obsch. Isp. Prirody. Otd. Biol. B. (n.s.)* 75(4):76-85. Ref. 1950. 511 M85

26059 BJURULF, G. The flora of the parish of Månsarp in South Sweden with Smålands Taberg. (In Swedish.) *Bot. Not.* 1950:387-414. Ref. 450 B656

English summary.

26060 EVERS, R. A. Notes on the Illinois flora. *Amer. Midland Nat.* 44:617-621. Ref. Nov.1950. 410 M58

26061 FERNALD, M. L. Botanizing on the Gaspé Peninsula, 1902-1904. *Rhodora* 53(625):1-22. Jan.1951. 450 R34

26062 HENRY, L. K. Comparison of the floras of some western Pennsylvania bogs. *Pa. Acad. Sci. Proc.* 24:21-25. 1950. 500 P383

26063 HØEG, O. A. Norwegian plant names from the Nordmøre rector Eilert Hagerup Kjempe. (In Norwegian.) *Blyttia* 8:99-114. Ref. 1950. 450 B622

26064 HORSTMANN, H. Flora von Schwabstedt. *Natwiss. Ver. f. Schleswig-Holstein. Schr.* 24(2):15-43. 1950. 509 K54

26065 JACQUES-FÉLIX, H. Les flores d'Afrique Tropicale. III. Contributions allemandes, portugaises, espagnoles. *Agron. Trop.* 5:645-646. Nov./Dec.1950. 26 Ag86

26066 JUDD, W. W. Plants collected in the Dundas Marsh, Hamilton, Ont., 1946. *Canad. Field-Nat.* 64:127-130. July/Aug.1950. 410.9 Ot8

26067 KÜCK, A. Nachtrag zur "Flora von Fehmarn." *Natwiss. Ver. f. Schleswig-Holstein. Schr.* 24(2):48-50. 1950. 509 K54

26068 PORTERES, R. La variation parallèle. *Rev. Internatl. de Bot. Appl. d'Agr. Trop.* 30:468-481. Sept./Oct.1950. 26 R323

26069 RUBTSOV, N. I. Geobotanical distribution in Tian Shan districts. (In Russian.) *Moskov. Obsch. Isp. Prirody. Otd. Biol. B. (n.s.)* 75(4):86-94. 1950. 511 M85

26070 TEN EICK, M. N. Florida plant checklist; names, accent, family and origin of approximately 4200 plants, in 15 groups, grown, shown and known in Florida. *Rev. ed.* Tampa, Fla., 1950. 108 p. 455.53 T25

26071 VALLIN, H. On the occurrence of phanerogams and ferns new to Halland's Väderö on amphibolite. (In Swedish.) *Bot. Not.* 1950:421-422. 450 B656

### Spermatophytes

26072 AKERS, J. From Peru—*Peruvocereus multangularis*. *Cactus & Succulent J.* 22:174-175. Nov./Dec. 1950. 451 C11

26073 ALEXANDER, E. J. A new cactus genus [*Cryptocereus*] from Mexico. *Cactus & Succulent J.* 22:163-166. Nov./Dec.1950. 451 C11

26074 BACKEBERG, C. Some results of twenty years of Cactus research. I-II. *Cactus & Succulent J.* 22:181-190;23:13-20. Nov./Dec.1950-Jan./Feb.1951. 451 C11

26075 BARNEBY, R. C. New names in *Oxytropis*. *L. West. Bot.* 6:111. Jan.1951. 450 L47

26076 BARNEBY, R. C. *Pugillus Astragalorum*. XII. Some problems in California. *Aliso* 2:203-215. Nov.15, 1950. 450 AL4

26077 BARZEN, R. M. Der waldkobold [*Periclymenum*]. *Unser Wald* 3(3):6. Mar.1950. 99.8 Un7

26078 BEANE, L. Two new Castillejas from Huntington Lake, Fresno County, California. *Stanford U. Dudley Herb. Contrib.* 4:37-40. July 10,1950. 451 L53

26079 BLAKE, S. F. The status of *Encelia angustifolia* and *E. albenscens*. *L. West. Bot.* 6:105-107. Jan. 1951. 450 L47

26080 BROWN, J. R. Lithops or stone faces. *Cactus & Succulent J.* 23:3-11. Jan./Feb.1951. 451 C11

26081 CAMPBELL, G. R. *Mimulus guttatus* and related species. *Aliso* 2:319-337. Nov.15,1950. 450 AL4

26082 CASE, F. W., II. The Alaskan *Cypripediums*. *Amer. Orchid Soc. B.* 20:74-76. Feb.1951. 80 Am329

26083 CHANSLER, W. S. Indian pipe [*Monotropa uniflora*]. *Wild Flower* 26:76-77. Oct.1950. 451 W642

26084 CHEVALIER, A. Ampélidées nouvelles d'Afrique Occidentale. *Rev. Internatl. de Bot. Appl. d'Agr. Trop.* 30:449-460. Sept./Oct.1950. 26 R323

26085 CHEVALIER, A. Sur un nouveau *Strophanthus* de la Côte d'Ivoire. (*Strophanthus punctiferus* Chev.). *Rev. Internatl. de Bot. Appl. d'Agr. Trop.* 30:481-483. Sept./Oct.1950. 26 R323

26086 DUCKE, A. Notes on the Neotropic flora. II. The Leguminosae of Brazilian Amazonia. (In Portuguese.) *Pará. Inst. Agron. do Norte. B. Téc.* 18,248 p. Dec.1949. 9.2 P213B

26087 DUNN, H. A. *Peristeria pendula*, new to Panama. *Amer. Orchid Soc. B.* 20:82. Feb.1951. 80 Am329

26088 FASSETT, N. C., and SAUER, J. D. Studies of variation in the weed genus *Phytolacca*. I. Hybridizing species in northeastern Colombia. *Evolution* 4:332-339. Dec.1950. 443.8 Ev62

26089 FERRIS, R. S. A new species of *Abronia* from Baja California, Mexico. *Stanford U. Dudley Herb. Contrib.* 4:32-36. July 10,1950. 451 L53

26090 GRANT, V. Genetic and taxonomic studies in *Gilia*. I. *Aliso* 2:239-316. Ref. Nov.15,1950. 450 AL4

26091 GUTZWILLER, R. Beobachtungen über das vorkommen von weiden (*Salices*) in schweizerischen flyschgebieten. *Schweiz. Z. f. Forstw.* 101:656-661. Dec. 1950. 99.8 J82

26092 HAWKES, A. D. Major genera of cultivated orchids. IX-X. *Amer. Orchid Soc. B.* 20:35-36,93-94. Jan.-Feb.1951. 80 Am329

26093 HAWKES, A. D. The minor genera of cultivated orchids. *Orchid Digest* 14:222-223. (To be cont.) Nov./Dec.1950. 80 Or172

26094 HAWKES, A. D. The mirity palm. *Nat. Mag.* 44:97-98. Feb.1951. 409.6 N214

26095 HAWKES, A. D. Studies in Florida botany. 8. The genus *Habenaria* in Florida. *Amer. Midland Nat.* 44:622-629. Nov.1950. 410 M58

26096 HESLOP HARRISON, J. W., and HESLOP HARRISON, J. The vascular plants of Stuley Island, the Isles of Grimsay and Ronay, with some remarks on the flora of Benbecula, South Uist and Barra. *Durham U. Phil. Soc. Proc.* 10:499-515. July 1950. 501 D93

26097 HESMER, H., and MEYER, J. *Waldgräser*. Ed. 2, rev. Fannover, Schaper, 1950. 122 p. 60.1 H46

26098 HEWITT, J. L. Place of the orchid family in the plant world. *Orchid Digest* 14:205-208. Nov./Dec. 1950. 80 Or172

26099 HITCHCOCK, A. S. Manual of the grasses of the United States. Ed. 2, rev. by A. Chase. U. S. D. A. Misc. P. 200,1051 p. Feb.1951. 1 Ag84M



- 26100 HOWELL, J. T. *Cryptantha circumscissa* in the Sierra Nevada. *L. West. Bot.* 6:102-105. Jan.1951. 450 L47
- 26101 HOWELL, J. T. Notes on some Sierran sedges. *L. West. Bot.* 6:107-111. Jan.1951. 450 L47  
*Eleocharis*, *Dulichium*, and *Carex*.
- 26102 HYLANDER, H. New locality in Blekinge for *Ornithopus perpusillus*. (In Swedish.) *Bot. Not.* 1950:420-421. 450 B656
- 26103 KNÖPPEL, J. On the occurrence of *Vicia dumetorum* L. in the Stockholm area. (In Swedish.) *Sveriges Natur* 41:57-62. 1950. 410 Sv2
- 26104 KOZO-POLJANSKIĬ, B. M. On the systematic status of *Gnetaceae*. (In Russian.) *Moskov. Obshch. Isp. Prirody. Otd. Biol. B.* (n.s.)75(3):51-57. Ref. 1950. 511 M85
- 26105 LABBE, A. Plantes spontanées de Tunisie à floraison estivale. *Tunisia. Serv. Bot. et Agron. B.* 20, 26 p. May 1950. 108 T832B
- 26106 LITARDIÈRE, R. DE. Sur la présence dans les Deux-Sèvres du *Vaccinium myrtillus* L. *Paris. Acad. des Sci. Compt. Rend.* 231:1015-1017. Nov.13,1950. 505 P21
- 26107 LONG, F. R. Collecting succulents in South Africa. *V. Cactus & Succulent J.* 22:171-173. Nov./Dec. 1950. 451 C11
- 26108 LOUIS-MARIE, P., and GIROUX, R. Autres variations mineures du *Trillium grandiflorum*. *Rev. d'Oka* 24:223-225. Nov./Dec.1950. 7 Ok1
- 26109 LOUIS-MARIE, P. Essai de cytosystématique de graminées nord-américaines. (Sum.) *Rev. d'Oka* 24:222. Nov./Dec.1950. 7 Ok1
- 26110 MAEKAWA, F. Alternate leaves in *Cardiandra*. (In Japanese.) *J. Jap. Bot.* 25:158-159. July 1950. 450 J8223
- 26111 MATTOON, H. G. English holly a problem in nomenclature. *Holly Soc. Amer. Proc.* 7:7-9. 1950. 97.31 H72P
- 26112 MATUDA, E. A contribution to our knowledge of the wild and cultivated flora of Chiapas. I. Districts Soconusco and Mariscal. *Amer. Midland Nat.* 44:513-616. Nov.1950. 410 M58
- 26113 MOLDENKE, H. N. The known geographic distribution of the members of the *Verbenaceae*, *Avicenniaceae*, *Stilbaceae*, *Symphoremaceae*, and *Eriocaulaceae*. Supplement 4. *Phytologia* 3:374-382. Dec.1950. 450 P563
- 26114 MUNZ, P. A., and ROOS, J. C. California miscellany. II. *Aliso* 2:217-238. Nov.15,1950. 450 AL4  
Includes new species in *Cordylanthus* and *Tetradymia*.
- 26115 MUSIL, A. F. Seeds of *Agropyron*, eleven species of economic interest compared. *Assoc. Off. Seed Anal. Proc.* 40:59-71. 1950. 61.9 As7
- 26116 MUSIL, A. F. Some brief notes on the identification of seeds of foxtail millet, *Setaria italica*. *Assoc. Off. Seed Anal. Proc.* 40:55-57. 1950. 61.9 As7
- 26117 NAKAI, T. *Notulae ad plantas Asiae Orientalis*. 35. *J. Jap. Bot.* 25:129-135. July 1950. 450 J8223  
Includes new species in *Persicaria*, *Morus*, and *Cirsium*.
- 26118 PENNELL, F. W., and OWNBEY, M. *Castilleja nivea*, snowy Indian paint-brush (*Scrophulariaceae*), a new species from the northern Rocky Mountains. *Acad. Nat. Sci. Phila. Notulae Nat.* 227,3 p. May 19,1950. 500 P53No
- 26119 PENNELL, F. W. *Cordylanthus capillaris*, a new bird's-beak (*Scrophulariaceae*) from California. *Acad. Nat. Sci. Phila. Notulae Nat.* 223,2 p. Mar.15,1950. 500 P53No
- 26120 PENNELL, F. W. On the systematics of *Penstemon*. *Natl. Hort. Mag.* 30:8-15. Jan.1951. 80 N216
- 26121 PHILLIPS, E. P. Descriptions and changes of name. *J. So. African Bot.* 16:15-22. Jan.1950. 450 J8262  
Includes new species in *Susanna*, n.g., *Eumorphia*, *Asaemia*, and *Matricaria*.
- 26122 POLUNIN, O. Poppies of the Himalayas. *Country Life [London]* 108:2152-2153. Dec.22,1950. 80 C83
- 26123 RADFORD, A. E. Additions to the flora of North Carolina. *Rhodora* 53(625):23-27. Jan.1951. 450 R34
- 26124 RAIZADA, M. B., and JAIN, S. K. Review of some name changes in Indian grasses. *Indian Forester* 76:523-525. Dec.1950. 99.8 In2
- 26125 RAMENSKAIA, V. M. In regard to diagnosis of species of the *Umbelliferae* family. (In Russian.) *Moskov. Obshch. Isp. Prirody. Otd. Biol. B.* (n.s.)75(3):90-96. Ref. 1950. 511 M85
- 26126 RANDOLPH, L. F., and HERNANDEZ-XOLOCOTZI, E. Cytotaxonomic diversity of *Tripsacum* in Mexico. (Abs.) *Genetics* 35:686. Nov.1950. 442.8 G28
- 26127 REEDER, J. R. *Setaria lutescens* an untenable name. *Rhodora* 53(625):27-30. Jan.1951. 450 R34
- 26128 ROEKENS, F. *Les yucca*. *Cour. Hort.* 12:600-601. (Cont.) Nov.1950. 80 C834
- 26129 RUNE, O. *Draba cacuminum* in Sweden. (In Swedish.) *Svensk Bot. Tidskr.* 44:497-503. 1950. 450 Sv2  
English summary.
- 26130 SCHELLER, U. Three *Saxifraga* species from K'un-lun and Karakorum in Central Asia. *Bot. Not.* 1950:415-419. 450 B656
- 26131 SHINNERS, L. H. *Ceanothus herbaceus* Raf. for *C. ovatus*: a correction of name. *Field & Lab.* 19:33-34. Jan.1951. 470 F46
- 26132 SHINNERS, L. H. *Pinaropappus roseus* var. *foliosus* (Heller) Shinners, comb. nov. *Field & Lab.* 19:48. Jan.1951. 470 F46
- 26133 SHINNERS, L. H. The Texas species of *Psoralea* (Leguminosae). *Field & Lab.* 19:14-25. Ref. Jan.1951. 470 F46
- 26134 SHINNERS, L. H. Two new varieties of *Solidago* from North Texas. *Field & Lab.* 19:34-35. Jan. 1951. 470 F46
- 26135 SIMMONDS, N. W. Notes on the biology of the *Araceae* of Trinidad. *J. Ecol.* 38:277-291. Nov.1950 450 J829
- 26136 SMITH, C. F. Notes on two California weeds. *L. West. Bot.* 6:112. Jan.1951. 450 L47  
*Papaver apulum micranthum* and *Calendula arvensis*.
- 26137 SMITH, G. G. Some new species and varieties in the genus *Haworthia*. VII. *J. So. African Bot.* 16:3-13. Jan.1950. 450 J8263
- 26138 SMITH, G. G. Some transfers in the genus *Haworthia*. *J. So. African Bot.* 16:1-2. Jan.1950. 450 J8262
- 26139 STENAF, H. Some further plant localities from Jämtland (North Sweden). (In Swedish.) *Svensk Bot. Tidskr.* 44:504-514. 1950. 450 Sv2  
English summary.
- 26140 WIGGINS, I. L. Taxonomic notes on plants from the Sonoran Desert. *Stanford U. Dudley Herb. Contrib.* 4:15-31. July 10,1950. 451 L53  
Includes new species in: *Fimbristylis*, *Brongniartia*, *Condalia*, *Ipomoea*, *Antirrhinum*, *Hofmeisteria*, *Stylocline*, and *Pectis*.
- 26141 WOLFE, L. P., JR., and HODGDON, A. R. A new form of *Rubus alleghensis*. *Rhodora* 53(625):30-31. Jan.1951. 450 R34
- 26142 WORTH, C. R. *Penstemon* collecting. *Natl. Hort. Mag.* 30:17-19. Jan.1951. 80 N216

#### Pteridophytes

- 26143 HAWKES, A. D., and DEGENER, O. Notes on *Dicranopteris emarginata*. *Amer. Fern J.* 40:253-255. Oct./Dec.1950. 450 Am35
- 26144 MORTON, C. V. Notes on the ferns of the eastern United States. *Amer. Fern J.* 40:241-252. (Concl.) Oct./Dec.1950. 450 Am35
- 26145 STOKOE, W. J. The observer's book of British ferns. London, Warne, 1950. 127 p. (The Observer's Pocket Ser.) 461.2 St6

#### Bryophytes

- 26146 ANDREWS, A. L. Studies in the *Bryaceae*. III-IV. *Bryologist* 53:175-179. Sept.1950. 450 B84
- 26147 BARTRAM, E. B. Mosses of the Nueltin Lake Expedition, Keewatin, 1947. *Acad. Nat. Sci. Phila. Notulae Nat.* 226,5 p. Mar.31,1950. 500 P53No
- 26148 CASTELL, C. P. New Vice-County records. *Hepaticae*. *Brit. Bryological Soc. Trans.* 1:374-388. 1950 451 B773
- 26149 DOIGNON, P. Le démembrement de l'*Hypnum cupressiforme* L. s'impose-t-il? *Feuille des Nat.* (n.s.) 5:77-79. Ref. Sept./Oct.1950. 410 F432
- 26150 EMMITT, R. W. *Fontinalis disticha* and *Fissidens hallianus* reported from Ohio. *Bryologist* 53:237. Sept.1950. 450 B84



- 26151 EVANS, R. I. *Andreaea rupestris* in Wisconsin. *Bryologist* 53:232. Sept. 1950. 450 B84
- 26152 FABIVS, BROTHOR. The bryological flora of Mount Shefford, Quebec, Canada. *Bryologist* 53:217-232. Sept. 1950. 450 B84
- 26153 HATTORI, S. *Notulae de Hepaticis japonicis* 12; a revision of certain Japanese *Plagiochilae*. 2. J. *Jap. Bot.* 25:139-142. July 1950. 450 J8223
- 26154 HERZOG, T. *Hepaticae borneenses* (Oxford University Expedition to Sarawak, 1932). *Brit. Bryological Soc. Trans.* 1:275-328. 1950. 451 B773  
Introduction and ecological notes by P. W. Richards.
- 26155 JONES, E. W. *Lophozia capitata* (Hook.) K. M. in Britain. *Brit. Bryological Soc. Trans.* 1:353-356. 1950. 451 B773
- 26156 KARLIN, S. A. Notes on bryophytes seen along Yosemite trails. *Yosemite Nat. Notes* 29:118-119. Dec. 1950. 409.8 Y8
- 26157 KOCH, L. F. Mosses of California. II. *Zygodon viridissimus*. *Bryologist* 53:213-215. Sept. 1950. 450 B84
- 26158 LADYZHENSKAIA, K. I. Laboratory culture of mosses. (In Russian.) *Priroda* 39(8):38-43. Aug. 1950. 410 P933
- 26159 MARGADANT, W. D., and MEIJER, W. Preliminary remarks on *Orthodontium* in Europe. *Brit. Bryological Soc. Trans.* 1:266-274. Ref. 1950. 451 B773
- 26160 MARTENSSON, O. Bryophytes from western Lule Lappmark, North Sweden. (In Swedish.) *Svensk Bot. Tidskr.* 44:488-496. Ref. 1950. 450 Sv2  
English summary.
- 26161 MÜLLER, K. *Lophozia capitata* (Hook.) K. M. n. comb. *Brit. Bryological Soc. Trans.* 1:356. 1950. 451 B773
- 26162 PERSSON, H. *Marsupella alpina* (G.) Bernet, a new member of the group of hyperoceanic Bryophytes in North America. *Bryologist* 53:172-174. Sept. 1950. 450 B84
- 26163 POITRAS, A. W. Parasitism, morphology of critical aspects of sexual and asexual reproduction, and taxonomy of the Choanephoraceae (Mucorales). *Urbana*, 1950. 5 p. 462.09 P75
- 26164 POTIER DE LA VARDE, R. Additions aux récoltes bryologiques de Mm. R. E. Fries et Th. C. E. *Svensk. Bot. Tidskr.* 44:515-516. 1950. 450 Sv2
- 26165 PROSKAUER, J. Notes on *Hepaticae*. I. *Bryologist* 53:165-172. Ref. Sept. 1950. 450 B84
- 26166 ROSE, F. A Bryophyte flora of Kent. II. *Hepaticae*. *Brit. Bryological Soc. Trans.* 1:255-265. 1950. 451 B773
- 26167 WALLACE, E. C. The stem tomentum of *Aulacomnium turgidum* (Wahlb.) Schwaegr. *Brit. Bryological Soc. Trans.* 1:327-329. Ref. 1950. 451 B773
- 26168 WELCH, W. H. A contribution to the bryophyte flora of Cuba. *Bryologist* 53:238-243. Sept. 1950. 450 B84
- 26169 WILLIAMS, S. The occurrence of *Cryptothallus mirabilis* v. *Malmb.* in Scotland. *Brit. Bryological Soc. Trans.* 1:357-366. Ref. 1950. 451 B773
- Algae**
- 26170 BRAARUD, T. The immigration of *Colpomenia peregrina* in Norwegian waters. *Blyttia* 8:125-126. 1950. 450 B622
- 26171 GIBB, D. C. A survey of the commoner fucoid algae on Scottish shores. *J. Ecol.* 38:253-269. Ref. Nov. 1950. 450 J829
- 26172 KRIEGER, W. *Desmidiaceen aus der montanen region Südost-Brasilien*. *Deut. Bot. Gesell. Ber.* 63:36-43. July 28, 1950. 451 D48
- 26173 OKADA, Y. A contribution to our knowledge of *Thorea okadae* Yamada. (In Japanese.) *J. Jap. Bot.* 25:145-147. July 1950. 450 J8223
- 26174 SHIN, T. Diatoms from Yamagawa diatomite deposit in Kagoshima Prefecture, Japan. *J. Jap. Bot.* 25:153-157. July 1950. 450 J8223
- 26175 TOKIDA, J. Notes on some new or little known marine algae. 5. *J. Jap. Bot.* 25:149-151. July 1950. 450 J8223
- 26176 WOODCOCK, A. H. Subsurface pelagic *Sargassum*. *J. Mar. Res.* 9:77-92. Ref. 1950. 442.8 J827
- Fungi (Including Lichens)**
- 26177 BULLER, A. H. R. *Researches on fungi*, v. 7. Toronto, Roy. Soc. Canada, 1950. 458 p. 462 B87
- 26178 CHONA, B. L., and MUNJAL, R. L. A new species of *Ascochyta*. *Cur. Sci.* 19:345. Nov. 1950. 475 Sci23
- 26179 DIEHL, W. W. *Balanisia* and the *Balanisae* in America. U. S. D. A. Agr. Monog. 4,82 p. Ref. Dec. 1950. 1 Ag84Am
- 26180 DODGE, E. M. The South African fungi and lichens to the end of 1945. *Bothalia* 5,1094 p. Jan. 1950. 460.46 B65
- 26181 FISCHER, G. W. The smut fungi; a guide to the literature, with bibliography. New York, Ronald, 1951. 387 p. 462.062 F52
- 26182 GREENE, H. C. Notes on Wisconsin parasitic fungi. XIV. *Amer. Midland Nat.* 44:630-642. Nov. 1950. 410 M58  
Includes new species in *Apiocarpella*, *Septoria*, *Colletotrichum*, *Cylindrosporium*, *Ramularia*, and *Heterosporium*.
- 26183 HABERSAAT, E. *Schweizer pilzbuch*. Ed. 10. Bern, Hallwag, 1950. 232 p. 462.12 H115
- 26184 HALE, M. E., JR. The lichens of Aton Forest, Connecticut. *Bryologist* 53:181-213. Ref. Sept. 1950. 450 B84
- 26185 JØRSTAD, I. *Puccinia blyttiana*, a new member of the East Arctic rust flora. *Blyttia* 8:81-90. Ref. 1950. 450 B622
- 26186 LACY, R. C. Studies in aquatic *Phycomycetes*. *Indian Phytopath.* 2:134-141. Ref. 1949. 464.8 In2  
Includes *Aphanomyces apophysii* n. sp.
- 26187 LJUSTERDAL, E. *Cordyceps militaris* found in Västmanland. (In Swedish.) *Svensk Bot. Tidskr.* 44:514-515. 1950. 450 Sv2
- 26188 MAGNUSSON, A. H. On some species of *Blastenia* and *Caloplaca* with black apothecia. *Bot. Not.* 1950:369-386. 450 B656
- 26189 NISHIKAWA, H. A new constituent of the mycelium of *Oospora aurantia* (Cooke) Sacc. et Vogl. (In Japanese.) *Tottori Soc. Agr. Sci. Trans.* 9:1-2. Dec. 1949. 513 T64
- 26190 PARROT, A. G. Stations étranges de champignons. *Nature [Paris]* 3188:364. Dec. 1950. 473 N21
- 26191 PATEL, M. K., KAMAT, M. N., and BHIDE, V. P. Fungi of Bombay, Supplement I. *Indian Phytopath.* 2:142-155. Ref. 1949. 464.8 In2  
Includes mention of 11 bacterial diseases.
- 26192 PAYAK, M. M. Some parasitic fungi collected in the vicinity of Banaras. *Indian Phytopath.* 2:190-193. 1949. 464.8 In2
- 26193 RAMAKRISHNAN, T. S., and RAMAKRISHNAN, K. Additions to fungi of Madras. VII-VIII. *Indian Acad. Sci. Proc. Sect. B* 32:67-79, 97-111. Ref. Aug.-Sept. 1950. 513 In25B  
Includes new species in: *Synchytium*, *Pseudopeziza*, *Physalospora*, *Ascomycetella*, *Elsinoe*, *Camarotella*, *Plowrightia*, *Phyllachora*, *Sphaerodothis*, *Bubakia*, *Phakopsora*, *Cylindrosporium*, *Septogloeum*, *Diplodia*, *Cystopus*, *Catacauma*, *Uromyces*, *Cercospora*, *Gloeosporium*, *Discella*, and *Phleospora*.
- 26194 SATO, M. M. Notes on the luminous bacteria isolated from Java sea. (In Japanese.) *J. Jap. Bot.* 25:143-144. July 1950. 450 J8223
- 26195 SATO, M. M. Notes on the luminous fungi found in the Botanical Gardens, Buitenzorg. (In Japanese.) *J. Jap. Bot.* 25:137-138. July 1950. 450 J8223
- 26196 SMITH, A. H. Mushrooms in their natural habitats. Portland, Sawyer's, 1949. 2 v. 462 Sm52  
Vol. 2 consists of colored stereophotographs and a stereoscope.
- 26197 THIRUMALACHAR, M. J., and MUNDKUR, B. B. Genera of rusts. II. *Indian Phytopath.* 2:193-244. 1949: 464.8 In2
- 26198 THIRUMALACHAR, M. J. Notes on two fungi parasitic on scale insects. *Indian Phytopath.* 2:156-159. 1949. 464.8 In2  
*Uredinella* and *Aschersonia*.
- 26199 UPPAL, B. N., PATEL, M. K., and BHIDE, V. P. Four new species of fungi from Bombay. *Indian Phytopath.* 2:176-179. 1949. 464.8 In2  
New species in *Phyllachora*, *Parodiella*, and *Cercospora*.



- 26200 VENKATARAYAN, S. V. The validity of the name *Pellicularia koleroga* Cooke. *Indian Phytopath.* 2: 186-189. Ref. 1949. 464.8 In2
- 26201 WALKER, R. S. Tuckahoe—a fungus Hercules. *Nat. Mag.* 44:99,106. Feb.1951. 409.6 N214  
*Pachyma cocos.*

## PATHOLOGY

## General

- 26202 ARK, P. A. Sodium salt of o-hydroxydiphenyl, a promising chemotherapeutant. *Plant Dis. Rptr.* 35:44. Jan.15,1951. 1.9 P69P
- 26203 ATKINS, J. G., JR. Lespedeza diseases in Louisiana. (Abs.) *Phytopathology* 41:2. Jan.1951. 464.8 P56
- 26204 BAIN, D. C. Control of seedling diseases of tomato. *Miss. Agr. Expt. Sta. Inform. Sheet* 456, 1 p. Nov.1950. 100 M69In
- 26205 BALDOVINOS DE LA PEÑA, G. Naturaleza de la clorosis en la caña de azúcar cultivada en la zona de Tlaltizapan, Morelos. I. *Chapingo* 4:512-521,527. Ref. June 1950. 102 C36
- 26206 BENSADIE, M., and JENKINS, A. E. An obscure disease of banana. (Abs.) *Phytopathology* 41:3. Jan.1951. 464.8 P56
- 26207 BERG. Mechanische massnahmen der schädlingbekämpfung. *Gartenjahr* 5:186. Dec.1950. 80 G1932
- 26208 BÖHM, H. Kauft nur gesunde und schädlingssfreie bäume! *Pflanzenarzt* 3(12):3-4. Dec.1,1950. 464.9 P482  
Fruit.
- 26209 BURKHOLDER, C. L., SHARVELLE, E. G., and LEHKER, G. E. Indiana spray and dust schedules for commercial fruit plantings. *Purdue U. Agr. Ext. B.* 310, rev.,47 p. 1951. 275.29 In2E
- 26210 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. The cost of applying sprays and dusts to pear orchards in Lake and Mendocino Counties, by A. Shultis, N. W. Stice, and F. H. Taylor. Berkeley,1950. 5 p. 275.2 C12Css
- 26211 CHAPMAN, R. A. Relation of specific chemotherapeutants to the infection court. (Abs.) *Phytopathology* 41:6-7. Jan.1951. 464.8 P56
- 26212 COMMONWEALTH MYCOLOGICAL INSTITUTE. Distribution maps of plant diseases, 203-208. 211-212. 1950. 464.9 Im7
- 26213 CONDADO, C. "Xyloporosis" en Bella Vista, Corrientes. *IDIA; Inform. de Invest. Agr.* 3(33/34):47-50. Sept./Oct.1950. 9 Id3  
In citrus.
- 26214 CRANDALL, B. S., and ABREGO, L. Prevención de enfermedades llevadas en las semillas. *Cent. Nac. de Agron. C. Agr.* 27,4 p. Oct.1950. 8 Sa54C
- 26215 CUISANCE, P. La réglementation de l'emploi et du commerce des produits antiparasitaires à usage agricole. *Jard. de France (ser.7)* 4:195-200. Sept./Oct. 1950. 86 So13
- 26216 DAY, W. R. Frost as a cause of die-back and canker of Japanese larch. *Q. J. Forestry* 44:78-82. Apr.1950. 99.8 Q2
- 26217 DENMARK. STATENS FORSØGSMAGSOMHED I PLANTEKULTUR. Diseases and pests of black currants. (In Danish.) *Tidsskr. f. Planteavl* 54:145-148. 1950. 11 T439
- 26218 DENMARK. STATENS FORSØGSMAGSOMHED I PLANTEKULTUR. Diseases and pests of currants. (In Danish.) *Tidsskr. f. Planteavl* 54:141-144. 1950. 11 T439
- 26219 DENMARK. STATENS FORSØGSMAGSOMHED I PLANTEKULTUR. Diseases and pests of gooseberries. (In Danish.) *Tidsskr. f. Planteavl* 54:148-152. 1950. 11 T439
- 26220 DENMARK. STATENS FORSØGSMAGSOMHED I PLANTEKULTUR. Diseases and pests of raspberries. (In Danish.) *Tidsskr. f. Planteavl* 54:137-140. 1950. 11 T439
- 26221 DENMARK. STATENS PLANTEPATOLOGISKE FORSØG. Plant diseases and pests in Denmark 1948. (In Danish.) *Tidsskr. f. Planteavl* 54:1-61. 1950. 11 T439  
English summary.
- 26222 EYSTER, W. H. Snails and slugs in the garden. *Org. Gard.* 18:38-39. Jan.1951. 56.8 Or3
- 26223 FOSTER, A. E. Non-human parasites of *Gladiolus*. *New Eng. Gladiolus Soc. Gladiolus* 26:91-99. 1951. 96.43 N44
- 26224 GALLAY, R., and others. La dégénérescence infectieuse de la vigne. *Rev. Romande d'Agr. de Viticult. et d'Arboricult.* 6:81-84. Nov.1950. 17 J82A  
M. Staehelin, W. Wurgler, and H. Leyvraz, joint authors  
Cause not given; disease reproduced by grafting.
- 26225 GAUMANN, E. A. Principles of plant infection; a text-book of general plant pathology for biologists, agriculturists, foresters and plant breeders. Authorized English ed. by W. B. Brierley. London, Lockwood, 1950. 543 p. 464 G232Ae  
Translation of the author's *Pflanzliche Infektionslehre*.
- 26226 GOFFART, H. Nehmen hackfruchtkrankheiten und schädlinge zu? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1664. Nov.30,1950. 18 L2346
- 26227 GOIDANICH, G. Aspects of fruit culture in Emilia. Alterations on the root system. (In Italian.) *Riv. della Ortoflorofrutticoltura. Ital.* 34:191-199. Nov./Dec. 1950. 86 R22  
Due chiefly to bacterial and fungus diseases.
- 26228 GOIDANICH, G. Chemicals and mechanization in plant protection in the United States of America. (In Italian.) *Ricerca Sci.* 20:1121-1189. Aug./Sept.1950. 475 It1
- 26229 GOIDANICH, G. Tomato diseases. (In Italian.) *Italia Agr.* 87:682-693. Nov.1950. 16 It1
- 26230 GOUGH, H. C., and DUNNETT, F. W. Rabbit damage to winter corn. *Gt. Brit. Min. Agr. Agriculture* 57:374-378. Nov.1950. 10 G79J
- 26231 GUSSOW. Die herz- und trockenfäule der rüben. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A: 1455. Oct.19,1950. 18 L2346
- 26232 HALI EMANS, A. How large is the preharvest drop of diseased and worm eaten apples and pears. (In Flemish.) *Cult. e Handel* 16:541-542. Sept.1950. 80 C892
- 26233 HENRY, A. W. Dependability of disease-resistant varieties of crop plants. *Alberta. U. Dept. Plant Sci. Seasonal Notes* 36:4. Jan.6,1951. 64.9 AL12
- 26234 HESS, H. Ein beitrage zum problem der induzierten abwehrreaktionen im pflanzenreich. *Phytopath. Z.* 16:41-70. Ref. Dec.1949. 464.8 P562
- 26235 HILBORN, M. T. Blueberry disease research by the Maine Agricultural Experiment Station. *Maine. Agr. Expt. Sta. Mimeog. Rpt.* 12, 6 p. Dec.1950. 100 M28M
- 26236 HIRT, R. R. Saving hurricane-damaged trees. *Horticulture* 29:62. Feb.1951. 80 H787
- 26237 HOPPE, P. E. A new technic for incubating seed corn in cold soil for disease tests. (Abs.) *Phytopathology* 41:18. Jan.1951. 464.8 P56
- 26238 HUS, P. The control of diseases and pests in the bulb district. (In Dutch.) *Gent. Landbhogesch. Meded.* 15:49-57. Apr.1950. 105.1 G344  
English summary.
- 26239 KERSTING. Kahlflecken in den klee schlägen. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1627-1628. Nov.23,1950. 18 L2346  
Diseases and pests.
- 26240 KERSTING. Wichtig für die kohlanbauer! *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1624-1625. Nov.23,1950. 18 L2346  
Diseases.
- 26241 KÖHLER, H. Antibiotika und ihre bedeutung in der pflanzenpathologie. *Nachrbl. f. den Deut. Pflanzen schutzdienst (n.s.)* 4:185-193. (Concl.) Ref. Oct.1950. 464.9 N11
- 26242 LAVEZZINI, A. Plant sanitation knowledge. (In Italian.) *Avvenire Agr.* 58:301-302. Dec.1950. 16 Av9  
Fruit disease control.
- 26243 LEBEN, C., STESSSEL, G. J., and KEITT, G. W. An antibiotic that inhibits certain phytopathogens. (Abs.) *Phytopathology* 41:23-24. Jan.1951. 464.8 P56
- 26244 LOCKWOOD, S., and COE, D. M. Delayed dormant and spring spray schedules for deciduous fruit trees—1951. *Blue Anchor* 28:18-21. Feb.1951. 286.83 B62
- 26245 LODEN, H. D., and HILDEBRAND, E. M. Peanuts—especially their diseases. *Econ. Bot.* 4:354-379. Ref. Oct./Dec.1950. 450 Ec7
- 26246 MCCALLA, A. G. Frozen and damp wheat again! *Alberta. U. Dept. Plant Sci. Seasonal Notes* 36:2-3. Jan.6,1951. 64.9 AL12



- 26247 MCCLELLAN, W. D. Temperature and humidity in relation to disease development in *Gladiolus*. (Sum.) New Eng. *Gladiolus Soc. Gladiolus* 26:112-117. 1951. 96.43 N44
- 26248 MCNEW, G. L., MCCALLAN, S. E. A., and MILLER, P. R. The control of fruit & vegetable diseases. VII-XII. *Canning Trade* 73(27):11-12, 25-27; (28):6-8, 21-23; (29):50, 52, 54-55, 64; (30):7-9, 20; (31):6-9; (32):6-8. Jan. 22-Feb. 26, 1951. 286.83 T67
- 26249 MALLAMAIRE, A. La défense des végétaux au Maroc Français. *Agron. Trop.* 5:636-645. Nov./Dec. 1950. 26 Ag86  
Quarantine and inspection.
- 26250 MARQUARDT, H. Neuere auffassungen über einige probleme aus der pathologie der kernteilung. *Naturwissenschaften* 37:416-424, 433-438. Ref. Sept. 15-Oct. 15, 1950. 474 N213
- 26251 MARSH, C. Spraying revolution in orchards. *Fruit & Veg. Rev.* 12(10):18. Jan. 1951. 80 C1224
- 26252 MATAGRIN, A. New methods for the protection of timber stocks. II. The divers vegetable enemies of timber. *Rev. Internat. du Bois* 17(159):17-18. Nov. 1950. 99.8 R326  
English and French in parallel columns.
- 26253 MAURER, K. J. Frostplatten bei obstgehölzen. *Gartenjahr* 5:182-183. Dec. 1950. 80 G1932
- 26254 MAYNE, W. W. Some reflections on the problem of Black-Bean. *Indian Coffee Bd. Mon. B.* 14:13-16. Jan. 1950. 68.29 In23M
- 26255 MEHL, S. Zur frage der verwendung von trockenbrocken bei der rattenbekämpfung unter berücksichtigung neuzeitlicher bekämpfungsverfahren. *Z. f. Pflanzenbau u. Pflanzenschutz* 1:184-188. Oct. 1950. 464.8 P88
- 26256 MENON, K. K. The survey of pollu and root diseases of pepper. *Indian J. Agr. Sci.* 19:89-136. Ref. Mar. 1949. 22 Ag831  
*Piper nigrum*.
- 26257 MONOT, G. Le rôle de la Fédération Nationale dans la lutte contre les ennemis de la pomme de terre. *Pomme de Terre Franç.* 14(136):13-16. Jan. 1951. 75.8 P77
- 26258 NEERGAARD, P. La pourriture des racines des plantules et des boutures. *B. Hort. (n.s.)* 5:352-354, 360. Dec. 1, 1950. 80 B873
- 26259 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Diseases of roses. *N. S. Wales. Dept. Agr. Plant Dis. L.* 109, 4 p. 1950. 464.9 N47
- 26260 NORDIN, V. J. A gall disease of western hemlock [*Tsuga heterophylla*] in British Columbia. *Forestry Chron.* 26:308-309. Dec. 1950. 99.8 F7623  
Cause unknown.
- 26261 O'BRIEN, M. J. A visit with some of Europe's plant disease and fungicide experts. *Agr. Chem.* 6:55, 87-88. Jan. 1951. 381 Ag8
- 26262 OVERLEY, F. L. Fruit tree injury from low temperatures in central Washington. *West. Fruit Grower* 4(12):8-10. Dec. 1950. 95.8 G762
- 26263 PAINE, L. A. The susceptibility of pear trees to penetration and toxic damage by mistletoe. *Phytopath.* Z. 17:305-327. Ref. Nov. 1950. 464.8 P562
- 26264 PARRIS, G. K. Preservation of the spores of the cucurbit downy mildew fungus by freezing detached leaves. *Plant Dis. Rptr.* 35:52-53. Jan. 15, 1951. 1.9 P69P
- 26265 PIACCO, R. "Bursting" injury caused to rice in the spike by hail. (In Italian.) *Riv. di Estimo Agr. e Genio Rur.* 13:584-588. Dec. 1950. 281.8 R522
- 26266 REYES, G. M. Progressive measures in sugarcane disease control. *Sugar News* 26:463-465. Sept. 1950. 65.8 Su36  
Philippine Republic.
- 26267 REYES, H. Las babosas o sietecueros; algunas medidas para su control. *Agr. Venezol.* 15(146):4-5. Sept. 1950. 9.95 Ag8  
Slugs.
- 26268 RIKER, A. J. Developing disease resistance in trees. *Amer. Nurseryman* 93(2):9, 70-74. Jan. 15, 1951. 80 Am371
- 26269 ROBINSON, N. Technical means for the destruction of agricultural pests. (In Hebrew.) *Hassadeh* 31:121-124. Nov./Dec. 1950. 26 H27
- 26270 ROCASOLANO, C. También los árboles enferman. *Cult. Mod.* 33:418-419. Nov. 1950. 15 C89  
Spain.
- 26271 ROHRBAUGH, P. W., and MAXWELL, N. Present status of citrus trees damaged by the freeze of January 30, 31, 1949. *Rio Grande Val. Hort. Inst. Proc.* 5:109-116. 1951. 81 L95
- 26272 SCHÄFER, A. Anfang und ende falscher wundbehandlung. *Gartenjahr* 5:180-181. Dec. 1950. 80 G1932
- 26273 SCHENK, P. J. Snails. (In Dutch.) *Groenten en Fruit* 6:273. Oct. 19, 1950. 80 G89
- 26274 SCHÖBER, K. Sicherheit der erträge durch sautgutreinigung und beize! *Landwirtschaft* 1950:292. Oct. 1950. 19 L235
- 26275 SHEWELL-COOPER, W. E. Selecting seeds; every attempt must be made to control seed-borne diseases. *Field* 196:1143. Dec. 30, 1950. 10 F45
- 26276 SWINGLE, L. Symposium on 1949-50 frost damage to date palms. *Date Growers' Inst. Rpt.* 27:33-35. 1950. 81 D26  
Includes discussion.
- 26277 ULLSTRUP, A. J. The effect of some leaf diseases on grain yield in corn. (Abs.) *Phytopathology* 41:36. Jan. 1951. 464.8 P56
- 26278 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. DIV. OF FOREST PATHOLOGY. List of available publications. *Rev. Beltsville, Md., 1950.* 23 p. 1.965 F3L69
- 26279 VAUGHAN, E. K., and others. Diseases observed on bramble fruits in the Pacific Northwest. *Plant Dis. Rptr.* 35:34-37. Jan. 15, 1951. 1.9 P69P  
F. Johnson, R. E. Fitzpatrick, and R. Stace-Smith, joint authors.
- 26280 VAUGHN, J. R. Cycloheximide, an antibiotic effective against turf diseases. (Abs.) *Phytopathology* 41:36. Jan. 1951. 464.8 P56
- 26281 VERONA, O. Synoptic prospectus of the principal cryptogamic diseases of the olive. (In Italian.) *Pisa. U. Osserv. Region. di Fitopatol. B. Tec.* 1:234-240. n.d. 464.9 P672
- 26282 VOETS, J. P. C. Etude (in vitro) de l'action de detergents sur des microbes phytopathogenes. (Sum.) *Cong. Internat. des Indus. Agr. Rap.* 8(1):498. 1950. 388 C765
- 26283 WADE, G. C. Strawberry diseases; experiences in Tasmania. *Fruit World & Mkt. Grower* 51(11):13, 15. Nov. 10, 1950. 80 F948
- 26284 WAIBEL, C. W. Nursery inspection in the Lower Rio Grande Valley. *Rio Grande Val. Hort. Inst. Proc.* 5:64-68. Ref. 1951. 81 L95  
Citrus.
- 26285 WHITE, A. N., WENE, G. P., and GODFREY, G. H. Guide for controlling insects and diseases on vegetable crops in the Lower Rio Grande Valley (1950-51). *Rio Grande Val. Hort. Inst. Proc.* 5:20-33. 1951. 81 L95
- 26286 WILTSHIRE, G. Midwinter spray program outlined. *Sunday Oregonian, Farm, Home, Gard.* 1951:6-7. Jan. 28, 1951. 6 Su7
- 26287 WINTER, A. G., and RÜMKER, R. VON. Die mikroflora der rhizosphäre als resistenzbestimmender faktor. *Arch. f. Mikrobiol.* 15:72-84. Ref. 1950. 442.8 Ar26
- 26288 WOOD, K. Meet Joe and Susie—menaces to unthreshed grain. *Farm & Ranch Rev.* 47:10-11. Jan. 1951. 7 F223  
Field mice.

## Diseases Caused by Fungi

- 26289 ABBOTT, E. V. The brown spot leaf disease [*Cercospora longipes*] of sugarcane in Louisiana. *Sugar B.* 29:134, 139-142. Feb. 1, 1951. 65.9 Am32
- 26290 ABDULLAEV, S. G. Peronospora on onion in Azerbaidzhan and measures for its control. (In Russian.) *Sad i Ogorod* 1950(9):53-56. Sept. 1950. 80 Sa13
- 26291 ALLEN, R. M. Cotton seeds are capable of carrying *Verticillium*. *Plant Dis. Rptr.* 35:11-12. Jan. 15, 1951. 1.9 P69P
- 26292 ANDERSON, E. J. Effect of nutrient salt concentrations on infection of pineapple roots by *Phytophthora cinnamomi*. (Abs.) *Phytopathology* 41:2. Jan. 1951. 464.8 P56
- 26293 ANDERSON, E. J. The *Phytophthora cinnamomi* problem in pineapple fields of Hawaii. (Abs.) *Phytopathology* 41:1-2. Jan. 1951. 464.8 P56
- 26294 ARK, P. A., and SNYDER, W. C. Black spot of Vanda orchids. *Plant Dis. Rptr.* 35:43-44. Jan. 15, 1951. 1.9 P69P  
Glomerella.



- 26295 ARK, P. A., and MACLEAN, N. A. Botrytis spot and blight of tuberoses in California. Plant Dis. Rptr. 35:45-46. Jan.15,1951. 1.9 P69P
- 26296 ARK, P. A., and DEWOLFE, T. A. Phytophthora rot of Peperomia. Plant Dis. Rptr. 35:46-47. Jan.15,1951. 1.9 P69P
- 26297 ASTORGA C., M. La esclerotiniosis en la maravilla. Campesino [Santiago] 82(12):17,19,21-22. Dec.1950. 9.3 So12  
Caused by Sclerotinia sclerotiorum.
- 26298 BAKER, K. F., and DAVIS, L. H. An unusual occurrence of sclerotia of Sclerotinia spp. with seed of Centaurea cyanus. Plant Dis. Rptr. 35:39-41. Ref. Jan. 15,1951. 1.9 P69P
- 26299 BASKIN, A. D. Fungitoxicity of cyanamides in relation to pH of liquid media and organic content of soils. (Abs.) Phytopathology 41:2. Jan.1951. 464.8 P56
- 26300 BAUER, A. H. Black shank on tobacco in Pennsylvania. Plant Dis. Rptr. 35:56. Jan.15,1951. 1.9 P69P
- 26301 BAYLES, B. B. New wheat rust race develops. Agr. Situation 35:4-5. Jan.1951. 1 Ec7Ag
- 26302 BECKMAN, C. H., and KUNTZ, J. E. Translocation of poisons, dyes, and radiiodine, and its relation to oak wilt. (Abs.) Phytopathology 41:2-3. Jan. 1951. 464.8 P56  
Spread of oakwilt traced by sodium arsenite, ammate and radioactive iodine<sup>131</sup>.
- 26303 BELL, F. H. Distribution of hyphae of several plant-pathogenic fungi in leaf tissue. (Abs.) Phytopathology 41:3. Jan.1951. 464.8 P56
- 26304 BELL, F. H. Size and structure of the various infection-type mycelia produced by the wheat stem rust fungus. (Abs.) Phytopathology 41:3. Jan.1951. 464.8 P56
- 26305 BENLLOCH, M. Un metodo de laboratorio para el ensayo de anticriptogámicos contra el mildiú [Phytophthora infestans] de la patata. Microbiol. Españ. 3:39-42. 1950. 448.3 M583  
English summary.
- 26306 BESEMER, A. F. H. Experiments with carbamates and TMTD preparations in bulb and flower culture. (In Dutch.) Gent. Landbhogesch. Meded. 15:304-317. Ref. Apr.1950. 105.1 G344  
English summary.
- 26307 BIRCHFIELD, W., and WEBER, G. F. Control of Rhizoctonia damping-off of Pinus caribaea seedlings. (Abs.) Phytopathology 41:4. Jan.1951. 464.8 P56
- 26308 BLANK, L. M., and LEYENDECKER, P. J., JR. Verticillium wilt spread to disease-free soil by infected cotton stalks. Plant Dis. Rptr. 35:10-11. Jan.15,1951. 1.9 P69P
- 26309 BLÜMKE. Herbststutung gegen kleekrebs. Deut. Landwirt. Presse 73(22):3-4. Oct.21,1950. 18 D482
- 26310 BOCKMANN, H. Über die halmbruchkrankheit des weizens und ihren erregere Cercospora herpotrichoides Fron. Phytopath. Z. 17:293-304. Nov.1950. 464.8 P562
- 26311 BOOTHROYD, C. W. Pink rot [Phytophthora erythroseptica] of potato found in New York State. Plant Dis. Rptr. 35:55. Jan.15,1951. 1.9 P69P
- 26312 BOULTON, E. H. B. Notes on the control of wood destroying fungi. Timber & Plywood 99:533. Dec. 7,1950. 99.81 T489
- 26313 BOYCE, J. S., JR. Lophodermium pinastri and needle browning of southern pines. J. Forestry 49:20-24. Ref. Jan.1951. 99.8 F768
- 26314 BRAUN, A. J., and EMERSON, F. Control of black rot [Guignardia bidwellii] of grapes without direct coverage of the fruit. (Abs.) Phytopathology 41:5. Jan. 1951. 464.8 P56  
Use of ferbam.
- 26315 BRAUN, A. J. Verticillium wilt now recognized as a destructive disease of strawberries in New York State. (Abs.) Phytopathology 41:4. Jan.1951. 464.8 P56
- 26316 BRAUN, H. Vorsicht mit dem erntegut nach Phytophthora-befall. Kartoffelbau 1:66-67. Aug.1950. 75.8 K145
- 26317 BRETZ, T. W. Oak wilt fungus [Chalara quercina] pathogenic to Chinese chestnut. Plant Dis. Rptr. 35: 28. Jan.15,1951. 1.9 P69P
- 26318 BROCK, R. D. A search for resistance to defoliation by Alternaria solani in the genus Lycopersicon. Austral. Inst. Agr. Sci. J. 16:90-94. Sept.1950. 23 Au74
- 26319 BUTLER, E. E., and KING, T. H. Fungus parasitism by Rhizoctonia. (Abs.) Phytopathology 41:5. Jan.1951. 464.8 P56
- 26320 CAMPBELL, W. A. The occurrence of Phytophthora cinnamomi in the soil under pine stands in the Southeast. (Abs.) Phytopathology 41:5-6. Jan.1951. 464.8 P56
- 26321 CAMPBELL, W. A. Vertical distribution of Phytophthora cinnamomi in the soil under littleleaf-diseased shortleaf pine. Plant Dis. Rptr. 35:26-27. Jan.15, 1951. 1.9 P69P
- 26322 CAROSELLI, N. E., and FELDMAN, A. W. Dutch elm disease chemotherapy with carolate and related formulations. (Abs.) Phytopathology 41:6. Jan. 1951. 464.8 P56
- 26323 CAROSELLI, N. E., and FELDMAN, A. W. Dutch elm disease in young elm seedlings. Phytopathology 41:46-51. Ref. Jan.1951. 464.8 P56
- 26324 CARTER, J. C. Dutch elm disease [Ceratostomella ulmi] in Illinois. Plant Dis Rptr. 35:56. Jan.15, 1951. 1.9 P69P
- 26325 CARTWRIGHT, C. A. Know the rust diseases. Horticulture 29:58,67. Feb.1951. 80 H787
- 26326 CHEREWICK, W. J. Physiologic specialization in cereal smuts. (Abs.) Phytopathology 41:7. Jan.1951. 464.8 P56
- 26327 CHRISTIE, J. R., and OWEN, J. H. Occurrence of black rot [Alternaria citri] of oranges in Florida. (Abs.) Phytopathology 41:7. Jan.1951. 464.8 P56
- 26328 CRALL, J. M. Wilt [Fusarium] of red clover seedlings. (Abs.) Phytopathology 41:7. Jan.1951. 464.8 P56
- 26329 CRALLEY, E. M., and FRENCH, R. G. Control of Helminthosporium oryzae seedling blight or rice by seed treatment with Ceresan M. (Abs.) Phytopathology 41:8. Jan.1951. 464.8 P56
- 26330 CROSIER, W. F. Phenyl mercury acetate as a laboratory fungicide. Assoc. Off. Seed Anal. Proc. 40: 104-107. 1950. 61.9 As7
- 26331 CROWDY, S. H. Chemotherapeutant effect of certain aryloxyaliphatic acids. (Abs.) Phytopathology 41:8. Jan.1951. 464.8 P56  
Tests with Nectria galligena and Botrytis.
- 26332 CRUICKSHANK, I. A. M. Studies on a fungus (Septoria pisi Westend.) causing a foliage disease of peas (Pisum sativum L.). New Zeal. J. Sci. & Technol. A, Agr. Res. Sect. 31(3):17-23. Ref. Oct.1949. 514 N48A
- 26333 DARBY, J. F. Stem anthracnose [Colletotrichum truncatum] of bean in Florida. (Abs.) Phytopathology 41:9. Jan.1951. 464.8 P56
- 26334 DAVIDSON, R. S., and TU, D. S. Microflora associated with surface-sterilized wheat seed. (Abs.) Phytopathology 41:9. Jan.1951. 464.8 P56
- 26335 DECKER, P. Phomopsis-blight-resistant eggplants. (Abs.) Phytopathology 41:9. Jan.1951. 464.8 P56
- 26336 DEEMS, R. E. Trichothecium fruit rot of glasshouse tomatoes. (Abs.) Phytopathology 41:9-10. Jan.1951. 464.8 P56
- 26337 DENMARK. STATENS FORSØGSVIRKSOMHED I PLANTEKULTUR. Germination and snow mold. (In Danish.) Tidsskr. f. Planteavl 54:156-157. 1950. 11 T439  
Fusarium minimum on grain seed.
- 26338 DENMARK. STATENS FORSØGSVIRKSOMHED I PLANTEKULTUR. Special preparations for summer spraying against scab on apples. (In Danish.) Tidsskr. f. Planteavl 54:157-159. 1950. 11 T439
- 26339 DESHMUKH, N. Y., and MAHMUD, K. A. A root-rot disease of Ocimum sanctum Linn. Nagpur Agr. Col. Mag. 25:3-4. June/Sept.1950. 107.5 N132  
Rhizoctonia bataticola.
- 26340 DEZEEUW, D. J., and ANDERSEN, A. L. Response of pea varieties to dry and slurry methods of seed treatment. (Abs.) Phytopathology 41:10. Jan.1951. 464.8 P56
- 26341 DILLER, J. D. The planting and care of blight-resistant chestnuts for forest trees. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Forest Path. Spec. Release 15, rev., 7 p. Dec.1950. 1.965 F3F76
- 26342 DIMOCK, A. W. Semesan drench for Rhizoctonia control. N. Y. State Flower Growers. B. 60:6-7. Aug.1950. 80 N486



- 26343 DIMOND, A. E., and CHAPMAN, R. A. The chemotherapeutic properties of two compounds against *Fusarium wilt*s. (Abs.) *Phytopathology* 41:11. Jan.1951. 464.8 P56  
2-norcamphane methanol and 4-chloro-3,5-dimethyl-pheenoxyethanol.
- 26344 EARHART, R. W. Helminthosporium crown and culm rot of Southland oats. (Abs.) *Phytopathology* 41:11. Jan.1951. 464.8 P56
- 26345 EKBOTE, R. B., and DHANNALAL. Normal crop from rust damaged wheat grain. *Nagpur Agr. Col. Mag.* 25:49-51. June/Sept.1950. 107.5 N132
- 26346 ELLIOTT, F. C. Help insure good yields by seed treatment. *Prog. Farmer, Tex. Ed.* 66(2):10,123. Feb.1951. 6 T311  
Cotton seed treatment.
- 26347 FELDMAN, A. W., and CAROSELLI, N. E. Soil and tree acidity in relation to susceptibility to Dutch elm disease. (Abs.) *Phytopathology* 41:12. Jan.1951. 464.8 P56
- 26348 FELIX, E. L. Fungicidal adhesives. (Abs.) *Phytopathology* 41:12. Jan.1951. 464.8 P56
- 26349 FERGUS, C. L. Strumella canker on bur oak in Pennsylvania. *Phytopathology* 41:101-103. Jan.1951. 464.8 P56
- 26350 FINK, H. C., and HOBART, O. F., JR. Fungicidal control of leaf spot and mildew on nursery cherry trees in Iowa. (Abs.) *Phytopathology* 41:12. Jan.1951. 464.8 P56
- 26351 FLENSBERG, R. Untersuchungen über die warmwasserbeize unter besonderer berücksichtigung des warmwasserdauerbades. *Phytopath. Z.* 16:1-40. Ref. Dec.1949. 464.8 P562  
Chiefly grain seed treatment.
- 26352 FOSCHI, S. Attacks of "Rhizopus nigricans" on peaches on the tree. (In Italian.) *Riv. della Ortoflorofrutticoltura. Ital.* 34:184-186. Sept./Oct.1950. 86 R22  
English summary.
- 26353 FREDERICK, L., and HOWARD, F. L. Comparative physiology and pathogenicity of eight isolates of *Ceratostomella ulmi*. (Abs.) *Phytopathology* 41:12-13. Jan.1951. 464.8 P56
- 26354 FREDERIKSEN, P. S. Observations concerning resistance to rust of a number of varieties of flax for fibre, translated by E. Selman-Towt. n.d. 6 p. Translation 6404.  
Translated from *Lin. No.1.* Jan.-Feb.1948.
- 26355 FREZAL, P. Pourritures des raisins. *Rev. Agr. de l'Afrique du Nord* 48:787-790. Oct.27,1950. 80 R326  
Caused by *Botrytis cinerea*.
- 26356 FRIEDERICH, J. C. Dutch investigations into rust in flax. n.d. 5 p. Translation 6421.  
Translated from *Lin* 1:15. Jan.-Feb.1948.
- 26357 FULTON, J. P., and FULTON, N. D. Phytophthora root rot of tomatoes. *Phytopathology* 41:99-101. Jan.1951. 464.8 P56
- 26358 GAUMANN, E., and HÄFLIGER, E. Der einfluss der bodentemperatur auf die entwicklung und den schorfbefall der kartoffelknollen. *Phytopath. Z.* 16:85-105. Ref. Dec.1949. 464.8 P562
- 26359 GERDEMANN, J. W. Effect of seed treatment on forage legumes in wet and dry soil. (Abs.) *Phytopathology* 41:13. Jan.1951. 464.8 P56
- 26360 GESLIN, M. Le Chitocybe de l'olivier à Rambouillet. *Feuille des Nat. (n.s.)* 5:72. Sept./Oct.1950. 410 F432
- 26361 GIBLER, J. W. Pelleting soybean seed with fungicides for control of damping-off and root rot. (Abs.) *Phytopathology* 41:13-14. Jan.1951. 464.8 P56
- 26362 GOLLMICK, F. Beobachtungen über den apfelmehltau [*Podosphaera leucotricha*]. *Nachrl. f. den Deut. Pflanzenschutzdienst (n.s.)* 4:205-214. Ref. Nov. 1950. 464.9 N11
- 26363 GORDON, A. Effect of *Cercospora* leaf spot of sugarcane on juice. *Sugar News* 26:569-570. Oct.1950. 65.8 Su36
- 26364 GRIES, G. A. Inhibition of the potato-scab organism [*Actinomyces scabiosa*] by soluble aluminum ions. (Abs.) *Phytopathology* 41:15. Jan.1951. 464.8 P56
- 26365 GRIMM, G. R., and DICKSON, J. G. Developmental cytology of *Puccinia graminis tritici* races 58 and 15B on seedlings of Hope and *Triticum timopheevi*. (Abs.) *Phytopathology* 41:15. Jan.1951. 464.8 P56
- 26366 HANNON, C. I., and WEBER, G. F. A leaf spot of tomato caused by a new *Stemphylium* sp. (Abs.) *Phytopathology* 41:15-16. Jan.1951. 464.8 P56
- 26367 HARPER, J. L. Studies in the resistance of certain varieties of banana to Panama disease [*Fusarium oxysporum cubense*]. I-II. *Plant & Soil* 2:374-394. Ref. Dec.1950. 450 P696
- 26368 HARTSUIJKER, K. Chlornitrobenzenes as fungicides. (In Dutch.) *Gent. Landbhogesch. Meded.* 15:219-226. Apr.1950. 105.1 G344  
English summary.
- 26369 HILBORN, M. T., and LATHROP, F. H. Organic fungicides in the control of apple scab and European red mite. *Phytopathology* 41:52-55. Jan.1951. 464.8 P56
- 26370 HOLDEMAN, Q. L. Tobacco stem rot of transplants and barn rot caused by *Pythium aphanidermatum*. (Abs.) *Phytopathology* 41:17. Jan.1951. 464.8 P56
- 26371 HOOKER, A. L. The corn embryo as a factor in resistance in *Pythium* during germination. (Abs.) *Phytopathology* 41:17. Jan.1951. 464.8 P56
- 26372 HOOKER, W. J., and SHERF, A. F. How to control potato scab. *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 5:108-109. Jan.1951. 275.28 I094
- 26373 HOOKER, W. J., and PAGE, O. T. Potato tuber growth and scab infection. (Abs.) *Phytopathology* 41:17-18. Jan.1951. 464.8 P56
- 26374 HORN, N. L., and ATKINS, J. G., JR. A new anthracnose [*Colletotrichum*] of vetch. (Abs.) *Phytopathology* 41:18. Jan.1951. 464.8 P56
- 26375 HORSFALL, J. G., and RICH, S. Oxidized substituents decrease fungitoxicity of reduced compounds. (Abs.) *Phytopathology* 41:18. Jan.1951. 464.8 P56
- 26376 IUGANOVA, O. N. Measures for control of black canker of apples. (In Russian.) *Sad i Ogorod* 1950 (9):76. Sept.1950. 80 Sa13
- 26377 JACOWAY, T. H., and OWEN, J. H. Stem rot of peanuts. (Abs.) *Phytopathology* 41:19. Jan.1951. 464.8 P56  
Probably *Diplodia natalensis*.
- 26378 JAIN, A. C. Anthracnose rot of immature plantain fruits in Madhya Pradesh. *Nagpur Agr. Col. Mag.* 25:35-37. June/Sept.1950. 107.5 N132
- 26379 JAIN, A. C., and MAHMUD, K. A. A root rot disease of *Hydrocotyle asiatica* Linn. caused by *Rhizoctonia solani* Kuhn. *Nagpur Agr. Col. Mag.* 25:5-6. June/Sept.1950. 107.5 N132
- 26380 JAMES, M. O., and PLAKIDAS, A. G. Foot rot of Chinese hibiscus. (Abs.) *Phytopathology* 41:19. Jan. 1951. 464.8 P56  
Cause tentatively identified as *Phytophthora cactorum* appanata.
- 26381 JANSON, B. F. A new disease of dill. (Abs.) *Phytopathology* 41:19. Jan.1951. 464.8 P56  
Cause apparently *Fusarium* sp.
- 26382 JOHNSON, H. W. Soybean seed treatment tests, 1947-1950. (Abs.) *Phytopathology* 41:19. Jan. 1951. 464.8 P56
- 26383 KENDRICK, J. B., JR. The influence of temperature upon the incidence of *Rhizoctonia* root rot of lima beans. (Abs.) *Phytopathology* 41:20. Jan.1951. 464.8 P56
- 26384 KERNKAMP, M. F., and GIBLER, J. W. Resistance in soybeans to root rot caused by *Rhizoctonia solani*. (Abs.) *Phytopathology* 41:21. Jan.1951. 464.8 P56
- 26385 KERNKAMP, M. F. Seed treatment of alfalfa, red clover, and sweet clover. (Abs.) *Phytopathology* 41:21. Jan.1951. 464.8 P56
- 26386 KILPATRICK, R. A., and HANSON, E. W. Relative prevalence of fungi associated with root and crown rots of red clover in Wisconsin. (Abs.) *Phytopathology* 41:21. Jan.1951. 464.8 P56
- 26387 KLOMPARENS, W. Toxicity of cycloheximide to certain wood-rotting fungi, and preliminary studies on absorption of the antibiotic by tissues. (Abs.) *Phytopathology* 41:22. Jan.1951. 464.8 P56
- 26388 KLOTZ, L. J. Fighting brown rot; problems of controlling brown rot gummosis of citrus trees and brown rot of the fruits. *Citrus Leaves* 31:8-9. Jan.1951. 80 C492
- 26389 KOEHLER, B. Husk coverage and ear declination in relation to corn ear rots. (Abs.) *Phytopathology* 41:22. Jan.1951. 464.8 P56
- 26390 KOMMEDAHL, T. Some factors affecting wilt in a flax-wilt nursery. (Abs.) *Phytopathology* 41:22. Jan.1951. 464.8 P56



- 26391 KUNTZ, J. E., and RIKER, A. J. Control of oak wilt in certain local areas. (Abs.) *Phytopathology* 41:23. Jan.1951. 464.8 P56
- 26392 LAFON, J. Le mildiou. 3. Rev. Agr. de l'Afrique du Nord 48:900-906. Dec.8,1950. 80 R326 Grapes.
- 26393 LEACH, J. G., and ELLIOTT, E. S. Black-patch of red clover is seed-transmitted and causes seedling blight. (Abs.) *Phytopathology* 41:23. Jan.1951. 464.8 P56
- 26394 LEWIS, A. J., and HANSON, C. H. Methods for determining pathogenicity of *Sclerotinia trifoliorum* on alfalfa and *Rhizoctonia solani* on Lotus. (Abs.) *Phytopathology* 41:1. Jan.1951. 464.8 P56
- 26395 LIMA, A. D. F. Tomato mildew. (In Portuguese.) *Seleç. Agr.* 5(56):45-46. Dec.1950. 9.2 S64 *Phytophthora infestans*.
- 26396 LING, L. On the occurrence of *Colletotrichum dematidis* in Taiwan. *Plant Dis. Rptr.* 35:13-15. Jan.15, 1951. 1.9 P69P On Derris.
- 26397 LOEGERING, W. Q. Survival of races of wheat stem rust in mixtures. *Phytopathology* 41:56-65. Ref. Jan.1951. 464.8 P56
- 26398 MCCLURE, T. T. *Fusarium* foot rot of sweet-potato sprouts. *Phytopathology* 41:72-77. Jan.1951. 464.8 P56
- 26399 MCCOACH, H. J. Determination of mercury on wheat treated with an organic mercurial seed disinfectant. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 31(3):25-28. Oct.1949. 514 N48A Ceresan.
- 26400 MCDONOUGH, E. S., and BELL, L. Inhibition of growth of *Schizophyllum commune* by extracts from living trees. (Abs.) *Phytopathology* 41:25. Jan.1951. 464.8 P56
- 26401 MCKEEN, C. D. *Fusarium* wilt of muskmelons and watermelons in southwestern Ontario. (Abs.) *Phytopathology* 41:26. Jan.1951. 464.8 P56
- 26402 MCKEEN, W. E. A corn root- and stalk-rot complex hitherto known as *Gibberella zeae* stalk rot. (Abs.) *Phytopathology* 41:26. Jan.1951. 464.8 P56
- 26403 MARCELLI, E. Observations on the specialization of *Erysiphe cichoracearum* of tobacco. (In Italian.) *Tabacco* 54:330-332. Oct.1950. 69.8 T115
- 26404 MARCHIORI, D. Harmful effects of spraying with Bordeaux mixture. (In Italian.) *Agr. del Polesine* 2:179. Dec.1950. 16 Ag8222
- 26405 MEHROTRA, H. N. Some new fungicidal materials and their uses. *Allahabad Farmer* 24:226-239. Ref. Nov.1950. 22 AL5
- 26406 MICHAELSON, M. E. A laboratory method for testing reaction of corn to stalk-rotting organisms. (Abs.) *Phytopathology* 41:26. Jan.1951. 464.8 P56 *Diplodia zeae* and *Gibberella zeae*.
- 26407 MILISSAVLJEVITCH, D. Recherches sur la durée de la période d'incubation du *Plasmopara viticola*. *Prog. Agr. et Vitic.* 1950:298-300. Nov. 5/12,1950. 14 P94
- 26408 MOWRY, J. B. Cross inoculation of *Prunus* with *Coccomyces*. (Abs.) *Phytopathology* 41:27. Jan. 1951. 464.8 P56
- 26409 MÜLLER-STOLL, W. R. Versuche zum problem der wirksamkeit von seifen- und seifenersatzmitteln gegen den traubenschimmel (*Botrytis cinerea*). *Phytopath. Z.* 17:265-286. Ref. Nov.1950. 464.8 P562
- 26410 MUNNECKE, D. E. Effect of wheat juices on urediospore germination of *Puccinia graminis* tritici. (Abs.) *Phytopathology* 41:27. Jan.1951. 464.8 P56
- 26411 NELSON, R. Control of mint rust with dust fungicides. (Abs.) *Phytopathology* 41:27-28. Jan.1951. 464.8 P56
- 26412 NELSON, R. Control of onion mildew with dust fungicides. (Abs.) *Phytopathology* 41:28. Jan.1951. 464.8 P56
- 26413 NEMA, K. G., and MAHMUD, K. A. Damping-off of brinjal [*Solanum melongena*] seedlings caused by *Rhizoctonia* (*Corticium*) *solani* Kuhn. *Nagpur Agr. Col. Mag.* 25:1-2. June/Sept.1950. 107.5 N132
- 26414 NEWHALL, A. G. New methods of controlling onion smut. (Abs.) *Phytopathology* 41:28. Jan.1951. 464.8 P56
- 26415 ORLOVA, A. A., and GUROVA, I. K. Diseases [fungus] of oak acorns. (In Russian.) *Lesn. Khoz.* 3(6): 57-59. June 1950. 99.8 L5622
- 26416 OSWALD, J. W., and WRIGHT, D. W. Field control of potato scab in California. (Abs.) *Phytopathology* 41:29. Jan.1951. 464.8 P56
- 26417 OSWALD, J. W. The relation of *Periconia* to milo root rot in California. (Abs.) *Phytopathology* 41: 28-29. Jan.1950. 464.8 P56
- 26418 PADDOCK, E. F. A tentative assignment of the *Fusarium*-immunity locus to linkage group 5 in tomato. (Abs.) *Genetics* 35:683-684. Nov.1950. 442.8 G28
- 26419 PATEL, M. K., QURESHI, I. M., and BHIDE, V. P. First record of *Verticillium* wilt in India. *Indian Phytopath.* 2:245-246. 1949. 464.8 In2
- 26420 PATEL, M. K., DHANDE, G. W., and KULKARNI, Y. S. A modified treatment against loose smut of wheat. *Cur. Sci.* 19:324-325. Oct.1950. 475 Sci23
- 26421 PAVARI, A. El cancro [*Endothia parasitica*] del castaño en Europa. *Montes* 6:599-606. Sept./Oct. 1950. 99.8 M763
- 26422 PETURSON, B. Recent changes in the relative prevalence of physiologic races of crown rust [*Puccinia coronata*] in Canada. (Abs.) *Phytopathology* 41:29. Jan. 1951. 464.8 P56
- 26423 PLAKIDAS, A. G. Comparative pathogenicity of two *Colletotrichums* on Easter-lily bulbs. (Abs.) *Phytopathology* 41:29-30. Jan.1951. 464.8 P56
- 26424 POLIAKOV, I. M. Chemical method for the control of loose smut of wheat with the aid of thiocyanogen. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(9):27-35. 1950. 20 Ak1
- 26425 POLIAKOVA, N. F. *Botrytis* and its role in the withering of cabbage seed plants. (In Russian.) *Sad i Ogorod* 1950(10):66-68. Oct.1950. 80 Sa13
- 26426 POUND, G. S., and FOWLER, D. L. A *Fusarium* wilt of radish in Wisconsin. (Abs.) *Phytopathology* 41:30. Jan.1951. 464.8 P56
- 26427 POUND, G. S., and STAHMANN, M. A. Production of a toxic substance by *Alternaria solani* and its relation to the early-blight disease of tomato. (Abs.) *Phytopathology* 41:30. Jan.1951. 464.8 P56
- 26428 PRADO, O. DE T. A non-parasitic disease of the tomato. (In Portuguese.) *Chacaras e Quintais* 82: 721-722. Dec.15,1950. 9.2 C34 Blossom-end rot.
- 26429 PREVOT, P., and COMMUN, R. L. Desinfection des semences d'arachide. *Oléagineux* 6:1-10. Jan. 1951. 77.8 OL2 French Equatorial Africa and French West Africa.
- 26430 PRIHODA, A. Contribution des champignons au déperissement et à la pourriture des épicéas dans les forêts des montagnes. (In Czech.) *Lesn. Práce* 29:165-182. Ref. Sept.1950. 99.8 L56 French summary.
- 26431 RAFAY, S. A. Another strain of *Physalospora tucumanensis*. *Cur. Sci.* 19:385-386. Dec.1950. 475 Sci23
- 26432 RHOADS, A. S. *Clitocybe* root rot of woody plants in the southeastern United States. U. S. D. A. C. 853.25 p. Ref. Dec.1950. 1 Ag84C Caused by the fungus *Clitocybe tabescens*.
- 26433 RICH, S. Vapor-phase toxicants for *Botrytis* sp. (Abs.) *Phytopathology* 41:30. Jan.1951. 464.8 P56
- 26434 RIKER, A. J. The spread of oak wilt in local areas. (Abs.) *Phytopathology* 41:30. Jan.1951. 464.8 P56
- 26435 RING, Fichten-rotfäule. *Allg. Forstz.* 6:25-27. Jan.17,1951. 99.8 AL52 Chiefly *Fomes annosus*.
- 26436 ROSEN, H. R., and MURPHY, H. C. A race of crown rust [*Puccinia coronata*] of oats apparently new to the United States. (Abs.) *Phytopathology* 41:31. Jan. 1951. 464.8 P56
- 26437 SACCAS, A. A. Un *Fusarium* parasite des panicules de riz. *Rev. Internatl. de Bot. Appl. d'Agr. Trop.* 30:483-500. Sept./Oct.1950. 26 R323
- 26438 SAFEEULLA, K. M., and GOVINDU, H. C. *Cintractia* minor on three species of *Cyperus* in Mysore. *Cur. Sci.* 19:325-326. Oct.1950. 475 Sci23
- 26439 SHAFRANSKAJA, V. N. Fungus diseases of acorns. (In Russian.) *Lesn. Khoz.* 3(6):37-40. June 1950. 99.8 L5622
- 26440 SHARMA, O. P., and MAHMUD, K. A. Damping-off of *Antirrhinum majus* L. caused by *Rhizoctonia* (*Corticium*) *solani* Kuhn. *Nagpur Agr. Col. Mag.* 25:47-48. June/Sept.1950. 107.5 N132



- 26441 SHAY, J. R., and HOUGH, L. F. Variation in pathogenicity of *Venturia inaequalis* to scab-resistant *Malus*. (Abs.) *Phytopathology* 41:32. Jan.1951. 464.8 P56
- 26442 SLEETH, B. *Diplodia* crown rot of alfalfa. *Plant Dis. Rptr.* 35:50-51. Jan.15,1951. 1.9 P69P
- 26443 SMITH, F. O., and BUCHHOLTZ, W. F. Evaluation of apple fungicides for Iowa. (Abs.) *Phytopathology* 41:32-33. Jan.1951. 464.8 P56
- 26444 SPRAGUE, R. New fungicides that show promise. (Sum.) *West. Fruit Grower* 4(12):11-12. Dec. 1950. 95.8 G762
- 26445 STAKMAN, E. C., and LOEGERING, W. Q. Increase in prevalence of *Puccinia graminis* tritici race 15B and *P. graminis* avenae race 7 in 1950. (Abs.) *Phytopathology* 41:33. Jan.1951. 464.8 P56
- 26446 STODDARD, E. M. Chemotherapeutic control of *Fusarium* wilt of carnations (Abs.) *Phytopathology* 41:33-34. Jan.1951. 464.8 P56
- 26447 STODDARD, E. M. A chemotherapeutic control of strawberry red stele [*Phytophthora fragariae*]. (Abs.) *Phytopathology* 41:34. Jan.1951. 464.8 P56
- 26448 STOVER, R. H. Physiological specialization and mutations in *Thielaviopsis basicola*. (Abs.) *Phytopathology* 41:34. Jan.1951. 464.8 P56
- 26449 STREETS, R. B. Expanded cotton acreage and root rot. *Prog. Agr. Ariz.* 2(4):12. Jan./Mar.1951. 6 P9452
- 26450 SWINGLE, R. U., and WHITTEN, R. R. Dutch elm disease (*Ceratostomella ulmi* [Schwarz] Buismann). *Tree Pest L.* 23,rev.,4 p. June 1950. 423.9 M38
- 26451 SZKOLNIK, M. *Phytophthora parasitica* diseases of *Cinchona* in Central American field plantings. *Plant Dis. Rptr.* 35:16-24. Jan.15,1951. 1.9 P69P
- 26452 TAYLOR, G. S., SEMENIUK, G., and MELHUS, I. E. Guatemalan corn as a source of resistance to *Helmintosporium turcicum* in maize. (Abs.) *Phytopathology* 41:34-35. Jan.1951. 464.8 P56
- 26453 THIRUMALACHAR, M. J. A Chytridiaceous parasite [*Physotherisma*] of *Limnanthemum indicum*. *Indian Phytopath.* 2:128-131. 1949. 464.8 In2
- 26454 THOMAS, C. A. Anthracnose [*Colletotrichum fuscum*] of *Digitalis*. (Abs.) *Phytopathology* 41:35. Jan. 1951. 464.8 P56
- 26455 THOMPSON, G. E. Die-back [*Diplodia natalensis*] of sycamore [*Platanus occidentalis*]. *Plant Dis. Rptr.* 35:29-30. Jan.15,1951. 1.9 P69P
- 26456 TIFFANY, L. H. Delayed sporulation of *Colletotrichum* on soybeans. (Abs.) *Phytopathology* 41:35. Jan.1951. 464.8 P56
- 26457 TOMPKINS, C. M. *Pythium* rot of pink and yellow calla [*Zantedeschia*] corms and its control. *Hilgardia* 20:183-190. Sept.1950. 100 C12H
- 26458 TVEIT, M. Commercial cereal seed treatment with panogen: comments and evidence on some published observations. *Plant Dis. Rptr.* 35:49-50. Jan.15,1951. 1.9 P69P
- 26459 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications relating to fungus defects in forest products and to decay in trees. U. S. Forest Serv. Forest Prod. Lab. Rpt. R508,26 p. Dec. 1950. 1.9 F761R
- 26460 USCHDRAWITT, H. A. Eine ernste bedrohung der teekultur Indonesiens durch *Exobasidium vexans* Mass. *Phytopath.* Z. 16:124-125. Dec.1949. 464.8 P562
- 26461 VARMA, S. C., and MITAL, S. P. The structure of xylem vessels in the nodal region of sugarcane in relation to its resistance to red-rot (*Colletotrichum falcatum*, Went). *Indian J. Agr. Sci.* 19:383-387. Sept.1949. 22 Ag83I
- 26462 WAGGONER, P. E. Gradients of potato late blight observed around artificially inoculated plants. (Abs.) *Phytopathology* 41:36. Jan.1951. 464.8 P56
- 26463 WAGGONER, P. E., and SHAW, R. H. Plant part temperatures influencing the epiphytology of potato and tomato late blight. (Abs.) *Phytopathology* 41:36-37. Jan.1951. 464.8 P56
- 26464 WAHID, M. A., STEIB, R. J., and CHILTON, S. J. P. Effect of fungicides on the development of red rot [*Colletotrichum falcatum*] of sugar cane. (Abs.) *Phytopathology* 41:37. Jan.1951. 464.8 P56
- 26465 WALLIN, J. R. Forecasting tomato and potato late blight in the North-Central region. (Abs.) *Phytopathology* 41:37-38. Jan.1951. 464.8 P56
- 26466 WALLIN, J. R. Response of the tomato and potato in field plots inoculated with *Phytophthora infestans*. (Abs.) *Phytopathology* 41:37. Jan.1951. 464.8 P56
- 26467 WALKER, J. C., and LARSON, R. H. Progress in the development of clubroot-resistant cabbage. (Abs.) *Phytopathology* 41:37. Jan.1951. 464.8 P56
- 26468 WALKER, J. C., and WILES, A. B. Development of a scab-resistant pickling cucumber for Wisconsin. (Abs.) *Phytopathology* 41:37. Jan.1951. 464.8 P56
- 26469 WATERHOUSE, W. W. New race of wheat stem rust [*Puccinia graminis* tritici] in Australia. *Plant Dis. Rptr.* 35:55. Jan.15,1951. 1.9 P69P
- 26470 WELLMAN, F. L. Dissemination of *Omphalia* leaf spot of coffee. *Turrialba* 1:12-27. Ref. July 1950. 8 T86
- 26471 WELLMAN, F. L. Tree defoliation for control of *Omphalia* disease of coffee. (Abs.) *Phytopathology* 41:38. Jan.1951. 464.8 P56
- 26472 WIERSMA, J. H. N. Control of mildew on rubber. (In Dutch.) *Bergcultures* 19:431,433,435. Dec.1,1950. 22.5 B45
- 26473 WILSON, E. E. Effect of isopropanol, as a constituent of a glyoxalidine fungicide, on the ripening of Bartlett pears after harvest. *Plant Dis. Rptr.* 35:38. Jan.15,1951. 1.9 P69P
- 26474 WILSON, J. D. Data on late blight distribution and severity in northwestern Ohio in 1950. *Plant Dis. Rptr.* 35:52. Jan.15,1951. 1.9 P69P
- 26475 WRIGHT, L. K. Barberry eradication status and needs. Washington, U. S. Bur. Ent. & Plant Quar., 1950. 8 p. 1.967 P3W93
- Talk at Stem Rust Conference, University Farm, St. Paul, Nov. 17, 1950.
- 26476 YARWOOD, C. E., and WILHELM, S. Downy mildew [*Peronospora sparsa*] on rose in California. *Plant Dis. Rptr.* 35:56. Jan.15,1951. 1.9 P69P
- 26477 YOHE, R. Shall I treat my seed? *Prairie Farmer* 124,1.e.123(2):5. Jan.20,1951. 6 P883
- 26478 ZENTMYER, G. A., and POPENOE, W. *Phytophthora cinnamomi* on avocado in Honduras. *Plant Dis. Rptr.* 35:25. Jan.15,1951. 1.9 P69P
- 26479 ZOBRIST, L. Zehn jahre versuche zur bekämpfung des schwarzen schneeschildmels *Herpotrichia nigra* Hartig. *Schweiz. Z. f. Forstw.* 101:632-642. Dec. 1950. 99.8 J82

#### Diseases Caused by Bacteria

- 26480 ARK, P. A., and STARR, M. P. Bacterial diseases of orchids. *Plant Dis. Rptr.* 35:42-43. Jan.15, 1951. 1.9 P69P
- 26481 ARK, P. A. Occurrence of crown gall on yarrow [*Achillea*]. *Plant Dis. Rptr.* 35:42. Jan.15,1951. 1.9 P69P
- 26482 BHIDE, V. P. Stomatal invasion of cabbage by *Xanthomonas campestris* (Pammel) Dowson. *Indian Phytopath.* 2:132-133. 1949. 464.8 In2
- 26483 BHIDE, V. P. Utilisation of organic nitrogen by *Corynebacterium michiganensis* (E. F. S.) Dowson and its possible bearing on parasitism. *Indian Phytopath.* 2:173-175. 1949. 464.8 In2
- 26484 CARPENTER, T. R. The elimination of fire-blight-susceptible individuals in interspecific crosses of pear. (Abs.) *Phytopathology* 41:6. Jan.1951. 464.8 P56
- 26485 CHAMBERLAIN, D. W. Resistance to bacterial blight in soybeans. (Abs.) *Phytopathology* 41:6. Jan. 1951. 464.8 P56
- 26486 CLAYTON, E. E., and others. Breeding behavior and growth responses resulting from the transfer of wildfire resistance from *Nicotiana longiflora* to *N. tabacum*. (Abs.) *Phytopathology* 41:7. Jan.1951. 464.8 P56
- H. E. Heggstad, J. G. Grosso, D. R. Bowman, and E. O. Schneider, joint authors.
- 26487 DAINES, R. H., and HOUGH, L. F. Artificial inoculation of peach seedlings with *Xanthomonas pruni*. (Abs.) *Phytopathology* 41:8-9. Jan.1951. 464.8 P56
- 26488 DIACHUN, S., and TROUTMAN, J. Multiplication of *Bacterium tabacum* in leaves of *Nicotiana longiflora*. (Abs.) *Phytopathology* 41:10. Jan.1951. 464.8 P56
- 26489 DIMOND, A. E. Continuous gamma radiation suppresses crown-gall [*Agrobacterium tumefaciens*] formation in tomatoes. (Abs.) *Phytopathology* 41:10-11. Jan.1951. 464.8 P56



- 26490 FORSBERG, J. L. Lessons in carnation diseases. 9. Bacterial leaf spot. *Carnation Craft* 1950(15): 2. Dec.1950. 80 C21
- 26491 GAUTHERET, R. J. Vues nouvelles sur le cancer végétal. Zürich. Natforsch. Gesell. Vrtljahrschr. 95:73-88. June 30, 1950. 508 Z8
- 26492 GRAHAM, J. H. Overwintering and association of three bacterial pathogens of soybean. (Abs.) *Phytopathology* 41:14. Jan.1951. 464.8 P56
- 26493 KULKARNI, Y. S., PATEL, M. K., and ABHYANKAR, S. G. A new bacterial leaf-spot and stem canker of pigeon pea. *Cur. Sci.* 19:384. Dec.1950. 475 Sci23
- 26494 MASON, C. L. Orchard experiments on the control of bacterial spot of peaches. (Abs.) *Phytopathology* 41:25. Jan.1951. 464.8 P56
- 26495 MEZZETTI, A. La pourriture des callas [*Zantedeschia aethiopica*] produite par le "Bacterium [i. e. *Erwinia*] aroideae" en Italie. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):497. 1950. 388 C765
- 26496 PATEL, M. K. Bacterial leaf spot of *Desmodium diffusum* DC. *Indian Phytopath.* 2:168-172. 1949. 464.8 In2  
Includes technical description of *Xanthomonas desmodii* n. sp.
- 26497 PATEL, M. K., KULKARNI, Y. S., and DHANDE, G. W. Bacterial leaf-spot of lucerne. *Indian Phytopath.* 2:166-167. 1949. 464.8 In2
- 26498 VORONKEVICH, I. V. Plant residue—source of spreading tomato [bacterial spot] infection. (In Russian.) *Sad i Ogorod* 1950(9):57-58. Sept.1950. 80 Sa13
- 26499 WEI, C. T., and SCHEFFER, R. P. Relation of host nutrition to the development of bacterial wilt of cucumber and fusarial wilt of watermelon. (Abs.) *Phytopathology* 41:38. Jan.1951. 464.8 P56
- 26500 WILES, A. B. Studies on *Pseudomonas lachrymans* in cucumber. (Abs.) *Phytopathology* 41:38. Jan. 1951. 464.8 P56
- Viruses and Virus Diseases**
- 26501 ALEXANDER, L. J. Effect of tobacco-mosaic disease on yield of tomato. (Abs.) *Phytopathology* 41:1. Jan.1951. 464.8 P56
- 26502 AMES, R. W., and others. Partial purification of carnation-mosaic virus. (Abs.) *Phytopathology* 41:1. Jan.1951. 464.8 P56  
A. E. Vatter, J. J. Scholz, and H. H. Thornberry, joint authors.
- 26503 AYCOCK, R. Investigations on a mosaic of cantaloupe in South Carolina. (Abs.) *Phytopathology* 41:2. Jan.1951. 464.8 P56
- 26504 BERCKS, R. Serologische untersuchungen über das X-virus in kartoffelpflanzen. *Phytopath. Z.* 16: 71-85. Dec.1949. 464.8 P562
- 26505 BERKELEY, G. H. *Gladliolus* viruses. (Abs.) *Phytopathology* 41:3-4. Jan.1951. 464.8 P56
- 26506 BOUBALS, D., and HUGLIN, P. Sur la localisation et la transmission d'une mosaïque nécrotique de la vigne. *Prog. Agr. et Vitic.* 1950:343-349. Dec.3/10, 1950. 14 P94
- 26507 BRIDGMON, G. H. *Gladliolus* as a virus reservoir. (Abs.) *Phytopathology* 41:5. Jan.1951. 464.8 P56
- 26508 BRIDGMON, G. H. Relation of southern bean mosaic to black root. (Abs.) *Phytopathology* 41:5. Jan. 1951. 464.8 P56
- 26509 DEMAREE, J. B., and MARCUS, C. P. Strawberry viruses in eastern United States, as expressed when transmitted to *Fragaria vesca*. (Abs.) *Phytopathology* 41:10. Jan.1951. 464.8 P56
- 26510 DU PLESSIS, S. J. Virus diseases and some symptomologically related abnormalities of the vine. *Stellenbosch. Univ. Ann.* 26A(13), 33 p. Ref. 1950. 515 St3
- 26511 ERNOULD, L. La graine de betterave transmet-elle la jaunisse et la mosaïque? *Inst. Belge pour l'Amélior. de la Betterave*. P. 18:89-94. May/June 1950. 66.9 In7  
English summary.
- 26512 ERNOULD, L. Les possibilités de lutte contre la jaunisse. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):495-496. 1950. 388 C765  
In beets.
- 26513 ESSER, J. Neue, bisher zu wenig bekannte gefahren im pflanzenbau. *Saatgut-Wirt.* 2:225. (Concl.) Oct.1950. 81.8 Sa1  
Virus diseases.
- 26514 FAAN, H. C., and JOHNSON, J. Overwintering of the cucumber-mosaic virus. (Abs.) *Phytopathology* 41:12. Jan.1951. 464.8 P56
- 26515 FAAN, H. C., and JOHNSON, J. Strains of the cucumber-mosaic virus. (Abs.) *Phytopathology* 41:11. Jan.1951. 464.8 P56
- 26516 FULTON, R. W. The reinfection of mosaic leaves of *Nicotiana sylvestris* by other strains of tobacco mosaic virus. (Abs.) *Phytopathology* 41:13. Jan.1951. 464.8 P56
- 26517 GIGANTE, R. Une blastomanie de la chicorée produite par un virus. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):497. 1950. 388 C765
- 26518 GILMER, R. M. Etiology and host range of X-disease of chokecherry. (Abs.) *Phytopathology* 41:14. Jan.1951. 464.8 P56
- 26519 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Sugar beet yellows. *Gt. Brit. Min. Agr. & Fisheries. Adv. L.* 323, 5 p. July 1950. 10 G79La
- 26520 HAGEDORN, D. J. The reaction of Perfection-type peas to Wisconsin bean virus 2 isolates from pea. (Abs.) *Phytopathology* 41:15. Jan.1951. 464.8 P56
- 26521 HAGEDORN, D. J., and HANSON, E. W. The relationship between Wisconsin pea stunt and red-clover vein mosaic. (Abs.) *Phytopathology* 41:15. Jan.1951. 464.8 P56
- 26522 HOBBS, G. A. Investigations on a cucumber virus mechanically transmitted from sour cherry. (Abs.) *Phytopathology* 41:16-17. Jan.1951. 464.8 P56
- 26523 HOLMES, F. O. Indications of a New World origin of tobacco-mosaic virus. (Abs.) *Phytopathology* 41:17. Jan.1951. 464.8 P56
- 26524 HOYMAN, W. G. Indexing potatoes for virus X, including the use of tuber juice. (Abs.) *Phytopathology* 41:18-19. Jan.1951. 464.8 P56
- 26525 JOHNSON, J. Virus particles in various plant species and tissues. *Phytopathology* 41:78-93. Ref. Jan.1951. 464.8 P56
- 26526 KELLER, J. R. New virus complex of Chrysanthemums. *N. Y. State Flower Growers. B.* 62:2-5. Oct.1950. 80 N486
- 26527 KENDRICK, J. B., JR., ANDERSON, L. D., and DICKSON, R. C. Source and seasonal spread of certain viruses in peppers in southern California. (Abs.) *Phytopathology* 41:20. Jan.1951. 464.8 P56
- 26528 KENKNIGHT, G. The acid test for phony disease of peach and its diagnostic value. (Abs.) *Phytopathology* 41:20-21. Jan.1951. 464.8 P56
- 26529 KÖHLER, E. Das wechelspiel zwischen virus und wirtspflanze. *Umschau* 50:764-765. Dec.15, 1950. 474 Um7
- 26530 KUNKEL, L. O. Identification of bolting disease of carrots. (Abs.) *Phytopathology* 41:22. Jan.1951. 464.8 P56  
A virus disease.
- 26531 LARSON, R. H., and DARBY, J. F. Variation in virulence of potato virus Y isolates from different sources. (Abs.) *Phytopathology* 41:23. Jan.1951. 464.8 P56
- 26532 LEBEN, C., and FULTON, R. W. The inhibition of virus symptom expression by sodium azide, potassium cyanide, and two antibiotics. (Abs.) *Phytopathology* 41:23. Jan.1951. 464.8 P56
- 26533 LEWIS, F. H. The effect of ring spot and yellows on the yield of Montmorency cherry. (Abs.) *Phytopathology* 41:24. Jan.1951. 464.8 P56
- 26534 MCKINNEY, H. H. A seed-borne virus causing false-stripe symptoms in barley. *Plant Dis. Rptr.* 35:48. Jan.15, 1951. 1.9 P69P
- 26535 MCWHORTER, F. P., and BRIERLEY, P. Anatomical symptoms useful in diagnosis of lily rosette. *Phytopathology* 41:66-71. Jan.1951. 464.8 P56  
Transmitted by *Aphis gossypii*.
- 26536 MARAMOROSCH, K. Serial passage of aster-yellows virus through the aster leafhopper [*Macrostelus divinus*]. (Abs.) *Phytopathology* 41:25. Jan.1951. 464.8 P56
- 26537 MOORE, J. D. Relation of prune dwarf to sour-cherry yellows. (Abs.) *Phytopathology* 41:27. Jan.1951. 464.8 P56



- 26538 NICHOLS, C. W., and NYLAND, G. Buckskin fruit symptoms on sweet cherry trees and mahaleb stock. *Plant Dis. Rptr.* 35:32. Jan.15,1951. 1.9 P69P
- 26539 NIELSEN, L. W. Influence of temperature on the development of internal-cork symptoms in sweet-potato roots. (Abs.) *Phytopathology* 41:28. Jan.1951. 464.8 P56
- 26540 NYLAND, G., and SCHLOCKER, A. Yellow leaf roll of peach. *Plant Dis. Rptr.* 35:33. Jan.15,1951. 1.9 P69P
- 26541 REINKING, O. A. Banana mosaic in Borneo and its relationship to abaca mosaic in the Philippines. *Plant Dis. Rptr.* 35:31-32. Jan.15,1951. 1.9 P69P
- 26542 ROBERTS, D. A., WILKINSON, R. E., and ROSS, A. F. *Chenopodium hybridum*, a local-lesion host for cucumber-mosaic virus. (Abs.) *Phytopathology* 41:31. Jan.1951. 464.8 P56
- 26543 ROLAND, G., and VANDERWALLE, R. Quelques considerations sur la lutte contre la jaunisse de la betterave. (Sum.) *Cong. Internat. des Indus. Agr. Rap.* 8(1):495. 1950. 388 C765
- 26544 ROSS, A. F. Production of ethylene by virus-infected plants. (Abs.) *Phytopathology* 41:31. Jan.1951. 464.8 P56
- 26545 RUI, D., and ROSTIROLLA, G. Withering and death of peach trees. (In Italian.) *Italia Agr.* 87:740-747. Dec.1950. 16 It1
- 26546 SCHRAMM, G., and BRAUNITZER, G. Die adsorptionsanalyse der aminosäuren. 4. Die trennung von hydrolysaten des  $\beta$ -lactoglobulins und des tabakmosaikvirus. *Z. f. Naturf.* 5b:297-306. Ref. Aug./Sept.1950. 474 Z3
- 26547 SEVERIN, H. H. P., and TOMPKINS, C. M. Aphid transmission of a mosaic virus and symptoms of other virus diseases of *Primula obconica*. *Hilgardia* 20:279-298. Ref. Oct.1950. 100 C12H
- 26548 SEVERIN, H. H. P. Symptoms of cucumber-mosaic and tobacco-ringspot viruses on celery. *Hilgardia* 20:267-277. Ref. Oct.1950. 100 C12H
- 26549 SEVERIN, H. H. P., and TOMPKINS, C. M. Transmission of radish-mosaic virus by aphids. *Hilgardia* 20:191-205. Sept.1950. 100 C12H
- 26550 SHARP, D. G., and WOLF, F. A. The virus of tobacco leaf curl. II. *Phytopathology* 41:94-98. Jan.1951. 464.8 P56
- 26551 SILL, W. H., JR. Some characteristics of a virus inhibitor in cucumber. (Abs.) *Phytopathology* 41:32. Jan.1951. 464.8 P56
- 26552 SILVEIRA, G. G. DA. Tristeza de citrus. (In Portuguese.) *Chacaras e Quintais* 82:695. Dec.15,1950. 9.2 C34
- 26553 STEERE, R. L. Increment curves based on counts of virus particles in plant juices prepared by a new and simplified procedure for electron microscopy. (Abs.) *Phytopathology* 41:33. Jan.1951. 464.8 P56
- 26554 STELZNER, G. Virusresistenz der wildkartoffeln. *Z. f. Pflanzenzücht.* 29:135-158. Ref. Sept.1950. 450 Z36
- 26555 THORNBERRY, H. H., VATTER, A. E., and BEESON, D. M. Viruslike particles in strawberry plants with foliar variegation. (Abs.) *Phytopathology* 41:35. Jan.1951. 464.8 P56
- 26556 TOMPKINS, C. M., and SEVERIN, H. H. P. Spotted wilt of white, yellow, and pink callas [*Zantedeschia*]. *Hilgardia* 20:207-232. Ref. Sept.1950. 100 C12H
- 26557 VAN DER MERWE, G. Tobacco mosaic and its control. *Farming So. Africa* 25:370-372. Nov.1950. 24 So842
- 26558 VARNEY, E. H., and MOORE, J. D. Effect of temperature on symptom expression of a virus disease of cucumber transmitted mechanically from sour cherry. (Abs.) *Phytopathology* 41:36. Jan.1951. 464.8 P56
- 26559 VASUDEVA, R. S., RAYCHAUDHURI, S. P., and SINGH, J. A new strain of *Cucumis virus* 2. *Indian Phytopath.* 2:180-185. 1949. 464.8 In2
- 26560 WALLACE, J. M., and DRAKE, R. J. Newly discovered symptoms of quick decline and related diseases. *Calif. Citrog.* 36:136,168-169. Ref. Feb.1951. 80 C125
- 26561 WALTERS, H. J. Grasshopper transmission of three plant viruses. *Science* 113:36-37. Jan.12,1951. 470 Sc12
- Tobacco mosaic, potato virus X, and tobacco ringspot virus.
- 26562 WILSON, J. D. Comparative performance of 40 fungicidal formulations in the control of a severe outbreak of tomato late blight. (Abs.) *Phytopathology* 41:39. Jan.1951. 464.8 P56
- 26563 YARWOOD, C. E. Rust infection increases invasiveness of tobacco-mosaic virus in bean. (Abs.) *Phytopathology* 41:39. Jan.1951. 464.8 P56

## Diseases Caused by Nematodes

- 26564 CONKLE, H. J., and ROTHE, C. H. Potato rot nematode surveys: 1946-1950. *Plant Dis. Rptr.* 35:3-8. Jan.15,1951. 1.9 P69P
- 26565 GRAHAM, T. W., and HOLDEMAN, Q. L. Nematode injury to tobacco, cotton, and corn in relation to populations of root-knot and meadow nematodes. (Abs.) *Phytopathology* 41:14. Jan.1951. 464.8 P56
- 26566 HARE, W. W. Resistance to nematodes in pepper [*Capsicum frutescens*]. (Abs.) *Phytopathology* 41:16. Jan.1951. 464.8 P56
- 26567 LOWNSBERRY, B. F., LOWNSBERRY, J. W., and MAI, W. F. Nematodes found in New York State potato fields with different cropping histories. (Abs.) *Phytopathology* 41:24. Jan.1951. 464.8 P56
- 26568 MAI, W. F. *Solanum xanthi* and *S. integrifolium*, new hosts of the golden nematode, *Heterodera rostochiensis*. (Abs.) *Phytopathology* 41:24. Jan.1951. 464.8 P56
- 26569 MILES, H. W. Eelworm diseases of horticultural crops. *Gent. Landbhogesch. Meded.* 15:5-25. Ref. Apr.1950. 105.1 G344
- 26570 OWENS, J. V. The pathological effects of *Belonolaimus gracilis* on peanuts in Virginia. (Abs.) *Phytopathology* 41:29. Jan.1951. 464.8 P56
- 26571 PIQUER, G. Essais de lutte au moyen du séléniate de sodium et du E. 605 contre *Aphelenchoides oleisistis*, le nématode des fougères. *Gent. Landbhogesch. Meded.* 15:58-68. Ref. Apr.1950. 105.1 G344
- English summary.
- 26572 REYNOLDS, H. W., and SLEETH, B. Root-knot nematode on canaigre. *Plant Dis. Rptr.* 35:9. Jan.15,1951. 1.9 P69P
- 26573 SASSER, J. N., FELDMESSER, J., and FASULIOTIS, G. Control of golden nematode of potatoes with an organic phosphate insecticide. (Abs.) *Phytopathology* 41:31-32. Jan.1951. 464.8 P56
- 26574 SASSER, J. N. Population dynamics of nematode parasites of tobacco in certain crop rotations. (Abs.) *Phytopathology* 41:31. Jan.1951. 464.8 P56
- 26575 SCHEERLINCK, H. The eelworms. (In Flemish.) *Agricultura [Louvain]* 48:116-126. Nov.1950. 13 R32
- Summary in French.
- 26576 STOVER, R. H. Some methods and problems in the study of nematode root rot of tobacco in Ontario. (Abs.) *Phytopathology* 41:34. Jan.1951. 464.8 P56
- 26577 SWEDEN, STATENS VÄXTSKYDDSANSTALT. Potatisålen [The potato nematode.] Sweden. Stat. Växtskyddsanst. Flygbl. 90,4 p. 1950. 464.9 Sw3
- 26578 THORNE, G. Crop rotation best preventative for any infestation of nematode. *Sugar Beet* 9(8):14-17. Dec.1950. 66.8 Su34B

## ECOLOGY

- 26579 BREISTROFFER, M. Sur le Clypeoletum et a propos d'un *Myosotis obscuricola* des préailles françaises du sud. *Feuille des Nat. (n.s.)* 5:69-72. Ref. Sept./Oct.1950. 410 F432
- 26580 DARMER, G. Über das Hippophaetum im küstengebiet der Ost- und Nordsee. *Biol. Zentbl.* 69:508-520. 1950. 442.8 B523
- 26581 DAWSON, E. Y. A note on the vegetation of a new coastal upwelling area of Baja California. *J. Mar. Res.* 9:65-68. 1950. 442.8 J827
- 26582 ELLENBERG, H. Kausale pflanzensoziologie auf physiologischer grundlage. *Deut. Bot. Gesell. Ber.* 63:24-31. Ref. July 28,1950. 451 D48
- 26583 EMFIS, W. Über die bedeutung des atlantischen klimakeils für das verbreitungsbild unserer flora und fauna. *Natwiss. Ver. f. Schleswig-Holstein. Schr.* 24(2):1-7. Ref. 1950. 509 K54



- 26594 GIMMINGHAM, C. H., and ROBERTSON, E. T. Preliminary investigations on the structure of bryophytic communities. Brit. Bryological Soc. Trans. 1:330-344. Ref. 1950. 451 B773
- 26595 GORBACHEV, V. M. Vegetation of ponds. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(11):25-30. 1950. 20 Ak1  
Aquatic plant associations.
- 26596 GREIG-SMITH, P. Evidence from hepatics on the history of the British flora. J. Ecol. 38:320-344. Ref. Nov.1950. 450 J829
- 26597 GYSEL, L. W. Borders and openings of beech-maple woodlands in southern Michigan. J. Forestry 49: 13-19. Jan.1951. 99.8 F768
- 26598 HARNISCH, O., KOPPE, F., and GROS-PIETSCH, T. Notizen über das Trentner moor bei Plön. Natwiss. Ver. f. Schleswig-Holstein. Schr. 24(2):44-47. 1950. 509 K54
- 26599 HESLOP HARRISON, J. W. A dozen years' biogeographical researches in the Inner and Outer Hebrides. Durham U. Phil. Soc. Proc. 10:516-524. Ref. July 1950. 501 D93
- 26600 JAEGER, P. Aperçu sommaire de la végétation du Massif de Kita (Soudan Français). Rev. Internatl. de Bot. Appl. d'Agr. Trop. 30:501-506. Ref. Sept./Oct. 1950. 26 R323
- 26601 KUNIN, V. N. On causes for the disappearance of brushwood in the southern Kara-Kums. (In Russian.) Bot. Zhur. 35:236-298. Ref. May/June 1950. 451 R923  
Due to amount of precipitation.
- 26602 MUNZ, P. A., and KECK, D. D. California plant communities. Supplement. Aliso 2:199-202. Nov. 15,1950. 450 AL4
- 26603 PAVARL, A. Foresta e deserto. Milano, 1950. 110 p. 459.8 P28  
Extract from Scientia, anno 44, Mar./Apr.1950.
- 26604 PURI, G. S. The ecology of the humus layer in some English forests. I. Indian Forester 76:418-427. Oct.1950. 99.8 In2
- 26605 RAABE, E. W. Über die "charakteristische arten-kombination" in der pflanzensoziologie. Natwiss. Ver. f. Schleswig-Holstein. Schr. 24(2):8-14. 1950. 509 K54
- 26606 ROSE, F. The east Kent fens. J. Ecol. 38:292-302. Nov.1950. 450 J829  
Includes an editorial note.
- 26607 SCHELPE, E. A. C. L. E. Observations on the ecology of the South African Umbelliferae. J. So. African Bot. 16:39-45. Ref. Jan.1950. 450 J8262
- 26608 SCHNELL, R. La réserve naturelle intégrale des Monts Nimba. (Afrique Occidentale Française). Rev. Internatl. de Bot. Appl. d'Agr. Trop. 30:514-520. Ref. Sept./Oct.1950. 26 R323  
Plant ecology.
- 26609 STEPHENSON, T. A., and STEPHENSON, A. Life between tide-marks in North America. I. The Florida Keys. J. Ecol. 38:354-402. Ref. Nov.1950. 450 J829
- 26610 TAMM, C. O. Growth and plant nutrient concentration in *Hylcomium proliferum* (L.) Lindb. in relation to tree canopy. Oikos 2:60-64. 1950. 410 O14
- 26611 VAUX, H. J. On the ecological approach. J. Forestry 49:48-49. Jan.1951. 99.8 F768
- 26612 WINTER, A. G. Untersuchungen über die ökologie und den massenwechsel bodenbewohnender mikroskopischer pilze. I. Die bedeutung organischer nährstoffe für die entwicklung von *Ophiobolus graminis* in der rhizosphäre und im freien boden. Arch. f. Mikrobiol. 15:42-71. Ref. 1950. 442.8 Ar26
- 26613 YOUNG, R. S. A note on vegetative cover of a tallings dam. J. Ecol. 38:251-252. Nov.1950. 450 J829
- 26614 BANERJI, I. The development of the female gametophyte in *Couroupita gulanensis* Aubl. Cur. Sci. 19: 347. Nov.1950. 475 Sci23
- 26615 BOCHER, T. W. Chromosome behaviour and syncyte formation in *Phleum phleoides* (L.) Karst. Bot. Not. 1950:353-368. Ref. 450 B656
- 26616 BRINGMANN, G. Vergleichende licht- und elektronenmikroskopische untersuchungen an *Oszillatorien*. Planta 38:541-563. Ref. 1950. 450 P693
- 26617 BUVAT, R. La différenciation des cellules végétales. Ann. Biol. 54:399-412. Aug.1950. 442.8 An7  
Includes discussion.
- 26618 CERUTI, A. On suberized cells in the chestnut-tree. (In Italian.) Ann. della Sper. Agr. (n.s.):4:1023-1047. Ref. 1950. 16 An78  
English summary.
- 26619 CICCARONE, A. Observations sur les corps myceliens de *Delacroixia coronata* (Cost.) Sacc. e P. Syd. en culture. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):503. 1950. 388 C765
- 26620 COZZO, D. Anatomía del leño secundario de las leguminosas papilionoideas argentinas silvestres y cultivadas. Mus. Argentino de Cien. Nat. "Bernardino Rivadavia." Rev. Cien. Bot. 1:223-361. Ref. 1950. 451 B864
- 26621 CZAJA, A. T. Stalaktiten-fruchtkörper von *Merulius lacrymans* var. domesticus. Arch. f. Mikrobiol. 15:176-178. 1950. 442.8 Ar26
- 26622 DAS, M. C. Morphology and cytology of *Enfyloma microsporum* (Unger) Schroet. and *Urocystis anemones* (Pers.) Wint. on *Ranunculus repens* L. Indian Phytopath. 2:108-127. Ref. 1949. 464.8 In2
- 26623 EMGE, R. G. Occurrence of abnormal cotton bolls in Arkansas. (Abs.) Phytopathology 41:11. Jan. 1951. 464.8 P56
- 26624 FREY-WYSSLING, A., and MÜHLETHALER, K. Der submikroskopische feinaufbau von chitinzellwänden. Zürich. Natforsch. Gesell. Vrtljahrschr. 95:45-52. Ref. Mar.31,1950. 508 Z8  
*Phycomyces blakesleeanus*.
- 26625 HOFF, A. V. Beitrag zur kenntnis der mehrzelligen behaarung von *Rhododendron*. Deut. Bot. Gesell. Ber. 63:31-35. Ref. July 28,1950. 451 D48
- 26626 HÖFLER, K. Über trockenhärtung des protoplasmas. Deut. Bot. Gesell. Ber. 63:3-10. Ref. June 5, 1950. 451 D48
- 26627 JOHANSEN, D. A. Plant embryology; embryogeny of the Spermatophyta. Waltham, Mass., Chronica Botanica, 1950. 305 p. (A new Ser. Plant Sci. Books.v.24) 463.42 J59
- 26628 KACHROO, P. A note on the teratology of flowers of *Zephranthes roseum* Lindl. Cur. Sci. 19:325. Oct.1950. 475 Sci23
- 26629 KARASAWA, K. Note on the cytology of *Crocus*. Genetica 25:188-192. 1950. 442.8 G282
- 26630 KAUSMANN, B. Beiträge zur morphologie von *Phyllanthus niruri* L. Planta 38:586-590. Ref. 1950. 450 P693
- 26631 KHAN, R. A case of twin ovules in *Isomeris arborea*. Cur. Sci. 19:326. Oct.1950. 475 Sci23
- 26632 KÜSTER, E. Über plastidenwachstum und rhizoidbildung der *Spirogyren*. Deut. Bot. Gesell. Ber. 63:21-24. Ref. July 28,1950. 451 D48
- 26633 LENZ, L. W. Chromosome numbers of some western American plants. I. Aliso 2:317-318. Nov.15, 1950. 450 AL4
- 26634 LEWIS, H. The geographical distribution of supernumerary chromosomes in natural populations of *Clarkia elegans* Dougl. (Abs.) Genetics 35:674-675. Nov. 1950. 442.8 G28
- 26635 LINDEGREN, C. C., and LINDEGREN, G. Chromosome maps in *Saccharomyces* of genes controlling the fermentation of carbohydrates and the synthesis of vitamins, amino acids and nucleic acid components. (Abs.) Genetics 35:675-676. Nov.1950. 442.8 G28
- 26636 MARTIN, P. C. A morphological comparison of *Biota* and *Thuja*. Pa. Acad. Sci. Proc. 24:65-112. Ref. 1950. 500 P383
- 26637 MATHER, K. The genetical architecture of heterostyly in *Primula sinensis*. Evolution 4:340-352. Dec.1950. 443.8 Ev62
- 26638 MUKHERJEE, S. K. Cytological investigation of the mango (*Mangifera indica* L.) and the allied indian species. Natl. Inst. Sci. India. Proc. 16:287-303. Ref. July/Aug.1950. 513 N212

## MORPHOLOGY, ANATOMY, AND CYTOLOGY

- 26604 ANDERSON, E. A. Tracheid length variation in conifers as related to distance from pith. (Condensed.) J. Forestry 49:38-42. Ref. Jan.1951. 99.8 F768
- 26605 BABCOCK, E. B. Supplementary notes on *Crepis*. III. Taproot versus rhizome in phylogeny. Evolution 4:358-359. Dec.1950. 443.8 Ev62
- 26606 BALL, E. Influence of shoot apex on sub-jacent shoots of *Lupinus albus* L. Nature [London] 167 (4236):36-37. Ref. Jan.6,1951. 472 N21



- 26632 NORTEN, R. T. Orchid flower structure. Amer. Orchid Soc. B. 20:88-92. Feb. 1951. 80 Am329
- 26633 PAULEY, S. S. Flowering habits in *Populus*. (Abs.) Genetics 35:684. Nov. 1950. 442.8 G28
- 26634 PFÜTZNER-ECKERT, R. Entwicklungs-physiologische untersuchungen an Dictyostellium mucoides Brefeld. Wilhelm Roux' Arch. f. Entwickl. Mech. der Organ. 144:381-409. Ref. 1950. 442.8 Z33D
- 26635 PLANTEFOL, L. La phyllotaxie. Ann. Biol. 54:447-463. Aug. 1950. 442.8 An7  
Includes discussion.
- 26636 RAO, Y. S. Chromosome numbers in Genistea. Cur. Sci. 19:384-385. Dec. 1950. 475 Sci23
- 26637 RILEY, H. P. Chromosome behavior in a second *Gasteria-Aloe* hybrid. Ky. Acad. Sci. Trans. 13:111-115. Oct. 1950. 500 K41
- 26638 SEDAR, A. W., and WILSON, D. F. An electron microscope study of mitosis in the onion root tip. (Abs.) Anat. Rec. 108:531-532. Nov. 1950. 447.8 An1
- 26639 SERMONTI, G. Cytological observations on hybrids of *Aegilops ovata* L. X *Triticum vulgare* Host. and *Tr. dicoccum* Schübl. (In Italian.) Ann. della Sper. Agr. (n.s.):4:941-951. Ref. 1950. 16 An76  
English summary.
- 26640 SERMONTI, G. Observations on the meiosis of a hybrid pentaploid of wheat. (In Italian.) Ann. della Sper. Agr. (n.s.):4:931-940. Ref. 1950. 16 An76  
English summary.
- 26641 SINGH, T. C. N., and SHAH, R. The chromosome counts of *Citrus santonaria*. Cur. Sci. 19:385. Dec. 1950. 475 Sci23
- 26642 SINHA, N. P. On the somatic chromosomes of some non-tuberous *Solanum* species. Cur. Sci. 19:348. Nov. 1950. 475 Sci23
- 26643 SUBRAMANYAM, K. An embryological study of *Levenhookia dubia* Sond. in Lehm. Natl. Inst. Sci. India Proc. 16:245-253. Ref. July/Aug. 1950. 513 N212
- 26644 TREW, C. G. The foliage leaf and its adaptability to its surroundings. Nat. Lover. 7:472-476, 479. Dec. 1950. 410 N218
- 26645 VILKOMERSON, H. The unusual meiotic behavior of *Elymus wiegandii*. Expt. Cell Res. 1:534-542. Nov. 1950. 442.8 Ex7
- 26646 WANSTALL, P. J. Mucilage hairs in *Polypodium*. Brit. Bryological Soc. Trans. 1:349-352. 1950. 451 B773
- 26647 WARIS, H. Cytophysiological studies on *Micrasterias* II. The cytoplasmic framework and its mutation. Phytol. Plant. 3:236-246. Ref. 1950. 450 P564
- 26648 WATSON, E. V. Four cases of syncarpy or 'double-capsules' in a population of *Bryum atropurpureum* W. & M. Brit. Bryological Soc. Trans. 1:345-348. Ref. 1950. 451 B773
- 26649 WERGIN, W. Neue Erkenntnisse in der Zellwandforschung. (Sum.) Deut. Bot. Gesell. Ber. 63:12-18. Ref. June 5, 1950. 451 D48
- 26650 WHITE, N. H. The significance of endosperm. Austral. J. Sci. 13:7-9. Aug. 1950. 475 Au72
- 26651 WILLIAMS, L. F. Structure and genetic characteristics of the soybean. In Markley, K. S., ed. Soybeans and soybean products, v. 1, p. 111-134. Ref. N. Y., Interscience, 1950. 60.3 M34
- 26652 ANIKEEVA, A. I. Selection of winter wheat. (In Russian.) In Krasnokutskaja Gosudarstvennaja Selektionsnaja Stanitsa. Sbornik nauchnykh rabot za 1944-1948 gg., p. 119-122. Moskva, Gos Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 26653 ATWOOD, S. S., and BREWBAKER, J. L. Multiple oppositional alleles in autopoloid white clover. (Abs.) Genetics 35:653. Nov. 1950. 442.8 G28
- 26654 BAKER, H. G. The inheritance of certain characters in crosses between *Melandrium dioicum* and *M. album*. Genetica 25:126-156. Ref. 1950. 442.8 G282
- 26655 BANDLOW, G. Auf neuen wegen der pflanzenzüchtung. Naturwiss. Rundschau 3:454-460. Oct. 1950. 474 N216
- 26656 BELL, G. D. H. Investigations in the Triticeae. I. Colchicine techniques for chromosome doubling in interspecific and intergeneric hybridization. J. Agr. Sci. [London] 40:9-18. Jan./Apr. 1950. 10 J822
- 26657 BLANCO, J. L. Pollen size and quantitative inheritance [in maize]. Crossingover in inbred lines of *Drosophila melanogaster*. (Abs.) Genetics 35:654-655. Nov. 1950. 442.8 G28  
Second part by J. L. Blanco and M. Garcia.
- 26658 BONNER, D. M. The Q locus of *Neurospora crassa*. (Abs.) Genetics 35:655-656. Nov. 1950. 442.8 G28
- 26659 BOONE, D. M. Linkage groups in *Venturia inaequalis*. (Abs.) Phytopathology 41:4. Jan. 1951. 464.8 P56
- 26660 BOWEN, C. C., and WILSON, G. B. Some factors correlated with differential reactivity in the somatic chromosomes of *Trillium sessile*. (Abs.) Genetics 35:656. Nov. 1950. 442.8 G28
- 26661 BURNHAM, C. R. Crossingover in an inversion heterozygote. (Abs.) Genetics 35:659. Nov. 1950. 442.8 G28  
Corn.
- 26662 CELESTRE, M. R., and SCARASCIA, G. G. Observations of some hybrids of first generation of maize. (In Italian.) Ann. della Sper. Agr. (n.s.):4:953-967. 1950. 16 An76  
English summary.
- 26663 CHEN, S. Y., EPHRUSSI, B., and HOTTINGUER, H. Nature génétique des mutants à déficience respiratoire de la souche B-II de la levure de boulangerie. Hereditas 4:337-351. Dec. 1950. 443.8 H42  
English summary.
- 26664 CHEVALIER, A. Comparaison entre la génétique néo-mendélienne, la génétique soviétique ou lysenkiste et l'oeuvre de N. I. Vavilov. Rev. Internat. de Bot. Appl. d'Agr. Trop. 30:461-467. Sept./Oct. 1950. 26 R323
- 26665 CONSTANTIN, T. Mode d'action du nucléinate de sodium sur la mutation de *Saccharomyces cerevisiae*. Soc. de Biol. Compt. Rend. 144:1443-1445. Oct. 1950. 442.9 P21
- 26666 CONSTANTIN, T. Mutations en deux temps chez *Saccharomyces cerevisiae*. Apparition de formes nouvelles. Soc. de Biol. Compt. Rend. 144:1442-1443. Oct. 1950. 442.9 P21
- 26667 DEODIKAR, G. B. Cytogenetic studies on crosses of *Gossypium anomalum* with cultivated cottons. 1. Indian J. Agr. Sci. 19:389-399. Ref. Sept. 1949. 22 Ag831
- 26668 DODDS, K. S. Polyhaploids of *Solanum demissum*. Nature [London] 166:795. Nov. 4, 1950. 472 N21
- 26669 EVERETT, H. L. A proposed relationship between suppressor gene mutants and heterosis. (Abs.) Genetics 35:663. Nov. 1950. 442.8 G28  
Zea mays.
- 26670 FORD, L. E. A genetic study involving male sterility in *Coleus*. (Abs.) Genetics 35:664. Nov. 1950. 442.8 G28
- 26671 FOX, A. S., and GRAY, W. D. Antigenic differences between the mating types of strain 15300 (albino-2), *Neurospora crassa*. (Abs.) Genetics 35:664-665. Nov. 1950. 442.8 G28
- 26672 FOX, A. S., and GRAY, W. D. Enzymatic (tyrosinase) differences between the mating types of strain 15300 (albino-2), *Neurospora crassa*. (Abs.) Genetics 35:664. Nov. 1950. 442.8 G28
- 26673 FRETTS, G. P. Transgressive variations in transgression segregates. I-III. (In Dutch.) Nederland. Akad. van Wetensch. Proc. 53:1085-1099, 1247-1264, 1442-1454. Ref. Sept.-Nov. 1950. 503 Am8P  
English summary.  
Experiments with beans.
- 26674 FYFE, V. C. The genetics of tristylis in *Oxalis valdiviensis*. Hereditas 4:365-371. Ref. Dec. 1950. 443.8 H42
- 26675 GABELMAN, W. H. Characteristics of the cytoplasmic factor for male sterility in maize. (Abs.) Genetics 35:665. Nov. 1950. 442.8 G28
- 26676 GATES, R. R. Another parallel mutation in *Oenothera*. Canad. Field-Nat. 64:142-145. July/Aug. 1950. 410.9 Ot8
- 26677 GERSTEL, D. U. On the effect of species-foreign pollen on self-incompatible guayule. (Abs.) Genetics 35:666. Nov. 1950. 442.8 G28
- 26678 GLUSHCHENKO, I. E. Hybridization of plants by grafting. (In Russian.) Uspekhi Sovrem. Biol. 30:15-48. July/Aug. 1950. 442.8 Er3
- 26679 GROSZMANN, H. M., KELENYI, G. P., and RODWELL, C. N. Hybrids between *Duboisia myoporoides* and *D. leichardtii*. Queensland J. Agr. Sci. 6:196-203. Sept. 1949. 23 Q37

## GENETICS



- 26680 GRUSHVITSKIĬ, I. V. System of Michurinite methods for transforming the nature of plants. (In Russian.) *Priroda* 39(7):3-11. Ref. July 1950. 410 P933
- 26681 HALL, B. M. Genetic analysis of interspecific hybrids in the genus *Bromus*, section *Ceratochloa*. (Abs.) *Genetics* 35:668-669. Nov.1950. 442.8 G28
- 26682 IBRAHIM, M. A. E. Cytogenetic studies of tertiary trisomics in maize. (Abs.) *Genetics* 35:671-672. Nov.1950. 442.8 G28
- 26683 JOHNSON, L. P. V. Fatuoids or false wild oats. Alberta. U. Dept. Plant Sci. Seasonal Notes 36:4-5. Jan.6,1951. 64.9 AL12
- 26684 JULÉN, G. What can be expected from forage plants with high chromosome counts. (In Swedish.) *Lantmannen* 34:987-989. Dec.23,1950. 11 L234
- 26685 KEHR, A. E. A genetic explanation for tumor formation in *Nicotiana* hybrids. (Abs.) *Genetics* 35:672-673. Nov.1950. 442.8 G28
- 26686 KEITT, G. W., and BOONE, D. M. Gene pairs conditioning pathogenicity in *Venturia inaequalis*. (Abs.) *Phytopathology* 41:19-20. Jan.1951. 464.8 P56
- 26687 KUHNHOLTZ-LORDAT, G. L'affinité des gènes. France. Min. de l'Agr. B. Tech. d'Inform. 54:685-686. Nov.1950. 14 F844B  
With reference to plants.
- 26688 LAUGHAN, J. R. Further studies on the mutation of  $A^0$  in maize. (Abs.) *Genetics* 35:674. Nov. 1950. 442.8 G28
- 26689 LEACH, D. Some notes on the induction of mutation in *Rhododendrons*. Amer. *Rhododendron Soc. Q. B.* 4:115-116. July 15,1950. 81 Am398
- 26690 LODEN, H. D. Genetic evidence of cryptic cytological differences in *Gossypium hirsutum* (L.) and *Gossypium barbadense* (L.). (Abs.) *Genetics* 35:676. Nov.1950. 442.8 G28
- 26691 MAAS, W. K. Studies on the mechanism of temperature-sensitive mutation. (Abs.) *Genetics* 35:677. Nov.1950. 442.8 G28  
*Neurospora*; *Escherichia coli*.
- 26692 MCGAHEN, J. W., WHEELER, H. E., and CHILTON, S. J. P. Factors conditioning sexuality in a *Glomerella* from *Ipomoea*. (Abs.) *Phytopathology* 41:25-26. Jan.1951. 464.8 P56
- 26693 MADER, W. Programm und arbeiten der Harrach'schen Pflanzenzuchtstation Gerhaus. *Landwirtschaft* 1950:352-354. (To be cont.) Dec.1950. 19 L235
- 26694 MALINOWSKI, E. The problem of heterosis. I-V. Cracovie, Imprimerie de l'Université, 1950. 807 p. 463.62 M29  
Reprinted from *Académie Polonaise des Sciences et des Lettres*, 1949.
- 26695 NOGAKU raiburari [Agriculture library]. Tokyo, 1950. 119 p. 22.5 N6876  
Plant breeding.
- 26696 O'MARA, J. G. The effects of chromosome substitution on competition between gametes. (Abs.) *Genetics* 35:682. Nov.1950. 442.8 G28  
Wheat and rye.
- 26697 ROGERS, J. S. Fertility relationships in maize-teosinte hybrids. Tex. Agr. Expt. Sta. B. 730, 18 p. Ref. Nov.1950. 100 T31S
- 26698 SHOWALTER, A. M. The segregation of fruit shapes in selected inbred lines of *Curcubita moschata* var. Golden Cushaw. (Abs.) *Genetics* 35:691. Nov.1950. 442.8 G28
- 26699 SILVA, J. B. V. DA. Review of some aspects of sterility. (In Portuguese.) *Agros [Lisboa]* 33:164-171. Ref. July/Aug.1950. 15.5 Ag82  
Chiefly in plants.
- 26700 SINGLETON, W. R. Corn grass, a dominant monogenic spontaneous mutant, and its possible singificance as an ancestral type of corn. (Abs.) *Genetics* 35:691-692. Nov.1950. 442.8 G28
- 26701 SMITH, H. H. Fixing transgressive vigor in *Nicotiana rustica*. (Abs.) *Genetics* 35:692. Nov.1950. 442.8 G28
- 26702 SOOST, R. K. Cytology and genetics of five asynaptic mutants in *Lycopersicon esculentum* Mill. (Abs.) *Genetics* 35:694. Nov.1950. 442.8 G28
- 26703 SPARROW, A. H., and POND, V. Supernumerary chromosomes in diploid and triploid *Trillium erectum* L. (Abs.) *Genetics* 35:694. Nov.1950. 442.8 G28
- 26704 SZILVINYI, A. Die bedeutung der modernen genetik in der mikrobiologie. Versanst. f. das Gärungsgewerbe. Mitt. 1950:128-132. Sept./Oct.1950. 390.08 V67  
Yeasts.
- 26705 TEAS, H. J., and ANDERSON, E. G. Blue fluorescent, a new mutant in maize. (Abs.) *Genetics* 35:696-697. Nov.1950. 442.8 G28
- 26706 TER-AVANESIAN, D. V. Effect of pollination conditions on variability of plants. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:619-622. Ref. Sept.21,1950. 511 P444A  
Experiments with cotton and wheat.
- 26707 WEIDNER, E. Die manifestation von gen Ri bei der komplexheterozygoten *Eu-Oenothera l. l.* Biol. Zentbl. 69:478-499. 1950. 442.8 B523
- 26708 WELLENSIEK, S. J. New linkages in *Pisum*, Cr-Gp and B-L. *Genetica* 25:183-187. 1950. 442.8 G282
- 26709 WINGE, O., and ROBERTS, C. Identification of the gene for maltose fermentation in *Saccharomyces italicus*. *Nature [London]* 166:1114. Dec.30,1950. 472 N21

## PHYSIOLOGY

- 26710 ÅBERG, B. On auxin antagonists and synergists in root growth. *Physiol. Plant.* 3:447-461. Ref. 1950. 450 P564
- 26711 ADAMS, A. F. R. Copper deficiency of onions grown on peat. II. New Zeal. J. Sci. & Technol. A, Agr. Res. Sect. 31(3):34-40. Oct.1949. 514 N48A
- 26712 ALGÉUS, S. Further studies on the utilization of aspartic acid, succinamide, and asparagine by green algae. *Physiol. Plant.* 3:370-375. 1950. 450 P564
- 26713 ALGÉUS, S. The utilization of aspartic acid, succinamide and asparagine by *Scenedesmus obliquus*. *Physiol. Plant.* 3:225-235. Ref. 1950. 450 P564
- 26714 ALMESTRAND, A. Further studies on the growth of isolated roots of barley and oats. *Physiol. Plant.* 3:205-224. Ref. 1950. 450 P564
- 26715 ALMESTRAND, A. Growth factor requirements of isolated wheat roots (a preliminary report). *Physiol. Plant.* 3:293-299. Ref. 1950. 450 P564
- 26716 ANDERSEN, A. M. The swollen-seed problem in suckling clover *Trifolium dubium* Sibth. Assoc. Off. Seed Anal. Proc. 40:77-82. Ref. 1950. 61.9 As7
- 26717 ARENZ, B. Pflanzenernährung und kartoffelabbau. *Landwirt. Jahrb. f. Bayern* 27(5/6):51-63. Sept./Oct.1950. 18 L24
- 26718 ARNON, D. I. Functional aspects of copper in plants. In Symposium on Copper Metabolism, Johns Hopkins University, 1950. Copper metabolism, p.89-114. Ref. Baltimore, Johns Hopkins Press, 1950. 386.2 Sy62  
Includes discussion.
- 26719 ASANA, R. D., VERMA, G., and MANI, V. S. Some observations on the influence of 2,4-dichlorophenoxyacetic acid (2,4-D) on the growth and development of two varieties of wheat. *Physiol. Plant.* 3:334-353. Ref. 1950. 450 P564
- 26720 BADENOCH, A. G. The minerals in plant and animal nutrition. *Health & Soil* 1950:39-43. (Cont.) Winter 1950. 56.8 H34
- 26721 BALCHIN, W. G. V., and PYE, N. Observations on local temperature variations and plant responses. *J. Ecol.* 38:345-353. Ref. Nov.1950. 450 J829
- 26722 BARTLEY, B. G., and WEISS, M. G. Evaluation of physical factors affecting quality of oat varieties from Bond parentage. *Agron. J.* 43:22-25. Ref. Jan. 1951. 4 Am34P
- 26723 BECK, F. X. Boden-wasser-wärme. *Deut. Landwirt. Presse* 73(22):5;(23):6. Oct.21-Nov.4,1950. 18 D482  
Effects on plants.
- 26724 BENNETT, H. W., HAMMONS, R. O., and WEISSINGER, W. R. Identification of certain Mississippi grasses by vegetative morphology. *Miss. Agr. Expt. Sta. Tech. B.* 31, 108 p. Ref. July 1950. 100 M69
- 26725 BERTOSSI, F. Treatment of tobacco seedlings for shock of transplanting by auxins and similar substances. (In Italian.) *Tabacco* 54:354-360. Nov./Dec. 1950. 69.8 T115



- 26726 BIESELE, J. J., and others. Chromosome alteration and tumour inhibition by nitrogen mustards: the hypothesis of cross-linking alkylation. *Nature* [London] 166:1112-1113. Dec.30,1950. 472 N21
- F. S. Philips, J. B. Thiersch, J. H. Burchenal, S. M. Buckley, and C. C. Stock, joint authors.
- Experiments with onions.
- 26727 BISHOP, C. J. The influence of polyploidy on the X-ray sensitivity of cells. (Abs.) *Genetics* 35:654. Nov.1950. 442.8 G28
- Tradescantia.
- 26728 BLUVSHTEIN, I. N. Effect of whitewashing on frost resistance of grape vine buds. (In Russian.) *Sad i Ogorod* 1950(10):56-57. Oct.1950. 80 Sa13
- 26729 BOTHA, P. J. The germination of the seeds of angiospermous root-parasites. I-II. *J. So. African Bot.* 16:23-38. Ref. Jan.1950. 450 J8262
- Study of *Alectra vogelii*.
- 26730 BOTTARI, V., and SPINA, P. Researches on the pollination of some varieties of olive tree cultivated in Sicily. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:1007-1022. Ref. 1950. 16 An76
- English summary.
- 26731 BOULD, C., NICHOLAS, D. J. D., and THOMAS, W. D. E. Radiation effects in plant nutrition experiments with phosphorus-32. *Nature* [London] 166:140-142. Ref. Jan.27,1951. 472 N21
- 26732 BOYLE, L. W. Collar rot of peanuts, primarily a heat canker. (Abs.) *Phytopathology* 41:4. Jan. 1951. 464.8 P56
- 26733 BREIDER, H. Entwicklungspysiologische untersuchungen an der weinrebe "Vitis vinifera Gmelin." *Phytopath. Z.* 16:106-123. Dec.1949. 464.8 P562
- 26734 BÜNNING, E. Über die photophile und skotophile phase der endogenen tagesrhythmik. *Planta* 38:521-540. Ref. 1950. 450 P693
- 26735 BURSTRÖM, H. Studies on growth and metabolism of roots. IV. Positive and negative auxin effects on cell elongation. *Physiol. Plant.* 3:277-292. 1950. 450 P564
- 26736 CASAMAJOR, R. Preliminary study of light intensity. *Amer. Orchid Soc. B.* 20:69-71. Feb.1951. 80 Am329
- Reprinted from *Cymbidium Society News*, Oct. 1950.
- 26737 CECCARELLI, V. Observations on the classification of damages caused to plants by toxic gases. (In Italian.) *Riv. di Estimo Agr. e Genio Rur.* 13:573-583. Dec.1950. 281.8 R522
- Industrial fumes.
- 26738 CEDERHOLM, Y. On the nectar secretion of some flowers in upper Norrland. (In Swedish.) *Nord. Botidskr.* 2:97-102. 1950. 424.8 N752
- 26739 CHAKRAVARTI, S. C. Anatomical changes in the embryo of mustard during vernalisation. *Cur. Sci.* 19: 319-321. Oct.1950. 475 Sci23
- 26740 CHIAPPELLI, R. The action of chemical herbicides on vetch and clover. (In Italian.) *Risicoltura* 38: 239-241. Sept./Oct.1950. 59.8 G43
- 26741 CIFERRI, R. A comprehensive look at the applications of plant hormones in agriculture. (In Italian.) *Riv. della Ortoflorofrutticoltura.* Ital. 34:137-145. Sept./Oct.1950. 86 R22
- 26742 COTTENIE, A. H. Observations about the parthenocarpic fruit set of tomatoes. (In Dutch.) *Gent. Landbhogesch. Meded.* 15:264-269. Apr.1950. 105.1 G344
- English summary.
- 26743 COTTON DISEASE COUNCIL. COMMITTEE ON COTTON SEEDLING DISEASES. Cottonseed treatment: its effect on seedling emergence, seedling survival, plant stands, and yields. U. S. D. A. Tech. B. 1025,134 p. Ref. Dec.1950. 1 Ag84Te
- 26744 COURTNEY, W. D., and GOULDS, C. J. Tolerance of Wedgewood Iris bulbs to a hot-water formalin treatment. *Phytopathology* 41:40-45. Jan.1951. 464.8 P56
- 26745 COX, C. E., and SISLER, H. D. Some metabolic and morphologic changes in germinating conidia of *Fusarium*. (Abs.) *Phytopathology* 41:8. Jan.1951. 464.8 P56
- 26746 CRALLEY, E. M., and BEECHER, R. L. The control of soybean chlorosis in rice-growing areas of Arkansas by potassium applications. (Abs.) *Phytopathology* 41:7-8. Jan.1951. 464.8 P56
- 26747 CROSIER, W. F. The value of mercuric-chloride-treated cucurbit seedlings with abnormal primary roots. *Assoc. Off. Seed Anal. Proc.* 40:91-100. 1950. 61.9 As7
- 26748 CUTTS, N. S., and RAINBOW, C. Methionine and the formation of pigment by yeasts. *Nature* [London] 166:1117. Dec.30,1950. 472 N21
- 26749 DAIGO, M. Nosakumotsu to kisho [Crops and weather]. Tokyo,Hata Shoten,1950. 276 p. (Seikatsu Kagaku Shin-sho 10) 346 D14
- 26750 DARBY, R. T., and GODDARD, D. R. The effects of cytochrome oxidase inhibitors on the cytochrome oxidase and respiration of the fungus *Myrothecium verrucaria*. *Physiol. Plant.* 3:435-446. Ref. 1950. 450 P564
- 26751 DASTUR, R. H. Investigations on the 'bad opening' of bolls in Sind-American cottons in Sind. I. Causes and the remedial measures for bad opening. *Indian J. Agr. Sci.* 19:401-411. Sept.1949. 22 Ag831
- Due to soil deficiencies and time of sowing.
- 26752 DAVID, R. Phytohormones et rhizogénèse. *J. de Physiol.* 42:583-584. 1950. 447.8 J823
- 26753 DAVID, R. La printanisation des semences; son importance scientifique, ses possibilités d'application. *Ann. Biol.* 54:413-446. Ref. Aug.1950. 442.8 An7
- Includes discussion.
- 26754 DELHAYE, R. Contribution à l'étude de l'action des substances excitatrices sur la vigne. *Gent. Landbhogesch. Meded.* 15:209-218. Apr.1950. 105.1 G344
- English summary.
- 26755 EVERSON, L. Further studies on the effect of 2,4-D on seeds. *Assoc. Off. Seed Anal. Proc.* 40:84-87. 1950. 61.9 As7
- 26756 FABERGÉ, A. C. Relation between the action of cold and of nitrogen in decreasing the frequency of chromosome aberrations. (Abs.) *Genetics* 35:663. Nov. 1950. 442.8 G28
- Tradescantia.
- 26757 FISHER, E. G. The mighty atom; radioactive isotopes lead to significant findings in the field of fruit research. *Amer. Fruit Grower* 71:29,55. Jan.1951. 80 G85
- 26758 FORTINI, S. Catalases in the seedcoat of wheat during maturation subject to different water regimes. (In Italian.) *Ricerca Sci.* 20:1278-1287. Ref. Aug./Sept.1950. 475 It1
- 26759 FREDERICKSEN, P. S. The effect of climate on the development and quality of flax for fibre, translated by E. Selman-Towt. n.d. 8 p. Translation 6418. Translated from *Lin* 3(3):49-58. Apr.1949.
- 26760 FRITH, H. J. The reduction of drop of Washington navel oranges by 2,4-dichlorophenoxyacetic acid. *Austral. Inst. Agr. Sci. J.* 16:101-104. Sept.1950. 23 Au74
- 26761 GALAKHOV, N. N. Second blooming of plants in 1949. (In Russian.) *Priroda* 39(7):65-66. Ref. July 1950. 410 P933
- 26762 GALLAHER, G. L. A method of determining the latent heat of agricultural crops. *Agr. Engin.* 32:34, 38. Jan.1951. 58.8 Ag83
- Amount of heat required to evaporate water in plants.
- 26763 GAMA, A. M. P. DA. Causes of the death of tissues touched by frost. (In Portuguese.) *Agros [Lisboa]* 33:177-183. July/Aug.1950. 15.5 Ag82
- Plants and other objects.
- 26764 GAUMANN, E., and NAEF-ROTH, S. Über die unterschiedliche biologische wertigkeit junger gewebe von verschiedenen alten pflanzen. *Phytopath. Z.* 17:233-239. Nov.1950. 464.8 P562
- 26765 GERM, H. Einiges über leben und tod der samen. *Gartenbauwirtschaft [Wien]* 1950:255-256. Nov. 25,1950. 80 G1936
- 26766 GILES, N. H., and BEATTY, A. V. The effect of X-irradiation in oxygen under pressure on chromosome aberration frequency in *Tradescantia* microspores. (Abs.) *Genetics* 35:666-667. Nov.1950. 442.8 G28
- 26767 GOODGAL, S. H. The effect of photoreactivation on the frequency of ultraviolet induced morphological mutations in the microconidial strain of *Neurospora crassa*. (Abs.) *Genetics* 35:667. Nov.1950. 442.8 G28
- 26768 GOVAERTS, J. L'emploi des isotopes lourds ou radioactifs dans la recherche en vue de l'accroissement de la production mondiale des aliments. *Cong. Internatl. des Indus. Agr. Rap.* 8(1):35-45. 1950. 388 C765



- 26769 GOVINDAN, P. R. A note on the influence of boron on the yield and ascorbic acid content in the tomato fruit. *Cur. Sci.* 19:319. Oct.1950. 475 Sci23
- 26770 GUMMERT, F., and JACOBY, T. Kohlensäure-düngung und hydroponik. *Umschau* 51:21-22. Jan.1,1951. 474 Um7
- 26771 GUSHCHIN, I. V. Age changes in some physiological functions of spring wheat. (In Russian.) In *Krasnokutskaja Gosudarstvennaja Seleksionnaja Stantsija. Sbornik nauchnykh rabot za 1944-1948 gg.* p.59-77. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 26772 GUSHCHIN, I. V. Biology of alfalfa blooming in connection with its seed productivity. (In Russian.) In *Krasnokutskaja Gosudarstvennaja Seleksionnaja Stantsija. Sbornik nauchnykh rabot za 1944-1948 gg.* p.31-46. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 26773 GUSHCHIN, I. V., and INAKINA, A. S. On the effectiveness of consumption by spring wheat of water reserves from grass-covered soil and from soft earth [fallows]. (In Russian.) In *Krasnokutskaja Gosudarstvennaja Seleksionnaja Stantsija. Sbornik nauchnykh rabot za 1944-1948 gg.* p.47-53. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 26774 GUSHCHIN, I. V. Salt-resistance of corn, sorghum and chickpea. (In Russian.) In *Krasnokutskaja Gosudarstvennaja Seleksionnaja Stantsija. Sbornik nauchnykh rabot za 1944-1948 gg.* p.90-98. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 26775 HANF, M. Die ursachen für ungewöhnliches gelbwerden des laubes. *Gartenjahr* 5:25-26. Feb.1950. 80 G1932
- Fruit trees.
- 26776 HARRISON, A. L. Breeding tomatoes for disease resistance. (Abs.) *Phytopathology* 41:16. Jan. 1951. 464.8 P56
- 26777 HASKELL, G., and SELMAN, G. G. Studies with sweet corn. III. The primary effects of treating seeds with ultrasonics. *Plant & Soil* 2:359-373. Ref. Dec.1950. 450 P696
- 26778 HASMAN, M., and BURSTRÖM, H. The action of 6-aminoundecane on wheat seedlings. *Physiol. Plant.* 3:381-369. 1950. 450 P564
- 26779 HASTINGS, L. Estudios sobre la viabilidad de la semilla en Costa Rica. *Turrialba* 1:86-88. Oct.1950. 8 T86
- 26780 HEIT, C. E. Nasturtium seed germination. *Assoc. Off. Seed Anal. Proc.* 40:100-104. 1950. 61.9 As7
- 26781 HEWITT, E. J., AGARWALA, S. C., and JONES, E. W. Effect of molybdenum status on the ascorbic acid content of plants in sand culture. *Nature [London]* 166:1119-1120. Dec.30,1950. 472 N21
- 26782 HILDEBRANDT, A. C. Growth of diseased plant tissue in vitro influenced by the concentration of organic acids. (Abs.) *Phytopathology* 41:16. Jan.1951. 464.8 P56
- 26783 HOMES, M. V. L. L'alimentation minerale des plantes cultivées. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):495. 1950. 388 C765
- 26784 HOTTES, A. C. Camels of the plant world. *Horticulture* 29:54-55,58. Feb.1951. 80 H787
- Water relations.
- 26785 HUDDLESON, I. F., and BALTZER, B. Differentiation of bacterial species and variation within species by means of 2,3,5-triphenyltetrazolium chloride in culture medium. *Science* 112:651-652. Dec.1,1950. 470 Sci2
- 26786 INGHAM, G. The mineral content of air and rain and its importance to agriculture. *J. Agr. Sci. [London]* 40:55-61. Ref. Jan./Apr.1950. 10 J822
- 26787 ISENBURG, F. M. R., and others. The effect of maleic hydrazide on certain dehydrogenases in tissues of onion plants. *Science* 113:58-60. Jan.19,1951. 470 Sci2
- M. L. Odland, H. W. Popp, and C. O. Jensen, joint authors.
- 26788 JACOBONI, N. Affinity and metabolic intensity in the grafted olive. (In Italian.) *Italia Agr.* 87:654-656. Nov.1950. 16 It1
- 26789 JACQUIOT, C. Sur la culture in vitro de tissu cambial de châtaignier (*Castanea vesca* Gaertn.). *Paris. Acad. des Sci. Compt. Rend.* 231:1080-1081. Nov.13,1950. 505 P21
- 26790 JOHANNES, H. Ein sekundäres geschlechtsmerkmal des isogamen Phycomyces blakesleeanus Burgeff. *Biol. Zentbl.* 69:463-468. 1950. 442.8 B523
- 26791 JOUGAN, E. La carence potassique du pommier. *Mont. Agr.* 4(144):2. Jan.14,1951. 14 M744
- 26792 KANDLER, O. Über den einfluss von 2,4-dinitrophenol auf atmung und wachstum in vitro kultivierter maiswurzeln. *Z. f. Naturf.* 5b:338-344. Ref. Aug./Sept. 1950. 474 Z3
- 26793 KANDLER, O. Versuche zur kultur isolierten pflanzenzengewebes in vitro. *Planta* 38:564-585. Ref. 1950. 450 P693
- 26794 KELMAN, A., and HEBERT, T. T. Influence of light on the germination of sporangia of *Phyodermata zeae-maydis*. (Abs.) *Phytopathology* 41:20. Jan.1951. 464.8 P56
- 26795 KERLING, L. C. P. Developmental processes of the rice-plant in relation to photoperiodism. I. *Nederland. Akad. van Wetensch. Proc.* 53:1428-1441. (To be cont.) Nov.1950. 503 Am8P
- 26796 KHRISTEEVA, L. A., and MANOLOVA, A. V. Nature of direct action of humic acid on the growth and development of plants. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(11):10-16. Ref. 1950. 20 Ak1
- Experiments with spring wheat.
- 26797 KIMBALL, M. H. Day length for flower growing. *Bloomin' News* 3:8-9. Jan.1951. 80 B625
- 26798 KING, T. H., and KEPLINGER, J. A. Effect of copper sulphate on growth and fruiting of *Coniothyrium fuckelii*. (Abs.) *Phytopathology* 41:21-22. Jan.1951. 464.8 P56
- 26799 KIZIURIN, A. D. On protection of fruit trees against winter warmth. (In Russian.) *Sad i Ogorod* 1950 (10):19-23. Oct.1950. 80 Sa13
- Effect of variations in temperature.
- 26800 KRAVTSEV, B. I. Properties of *Eleagnus* and *Hippophae rhamnoides* nodules. (In Russian.) *Les i Step'* 2(9):89. Sept.1950. 99.8 L565
- 26801 KULLENBERG, B. Investigations on the pollination of *Ophrys* species. *Oikos* 2:1-19. Ref. 1950. 410 O14
- 26802 LEDOCHOWSKI, J. S. M. Un nuevo medio de cultivo: agar de grama. *Microbiol. Españ.* 3:31-37. Ref. 1950. 448.3 M583
- English summary.
- 26803 LEPNOVA, M. I. New regularities of mineral nutrient content in plants during nitrogen+ash calculations. (In Russian.) *Akad. Nauk SSSR. Izv. Ser. Biol.* 1950(3):69-74. May/June 1950. 511 Sa2B
- Experiments with potatoes.
- 26804 LINSKENS, H. F. Quantitative bestimmung der benetzbarkeit von blattoberflächen. *Planta* 38:591-600. Ref. 1950. 450 P693
- 26805 LIVANOV, K. V. Increasing the productivity coefficient of spring wheat selected seed by the method of retarding the second (light) phase. (In Russian.) In *Krasnokutskaja Gosudarstvennaja Seleksionnaja Stantsija. Sbornik nauchnykh rabot za 1944-1948 gg.* p.54-58. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 26806 LIVANOV, K. V., and MALININA, E. E. Methods for evaluating varieties of grain crops by their adaptability to environmental conditions. (In Russian.) In *Krasnokutskaja Gosudarstvennaja Seleksionnaja Stantsija. Sbornik nauchnykh rabot za 1944-1948 gg.* p.9-30. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- Experiments with wheat and barley.
- 26807 LIVINGSTON, J. E. Effect of controlled low temperature on the emergence of seedlings from artificially dried seed corn. (Abs.) *Phytopathology* 41:24. Jan.1951. 464.8 P56
- 26808 MACFARLANE, E. W. E. Bioassay of growth-arresting substances penetrating *Allium* roots. (Abs.) *Genetics* 35:678. Nov.1950. 442.8 G28
- 26809 MAIER, F. Über den einfluss von mechanischen verletzungen auf wasseraufnahme und keimfähigkeitswerte der getreidefrüchte. *Saatgut-Wirt.* 2:228-231. (To be cont.) Oct.1950. 61.8 Sa1
- 26810 MALM, M. On the potassium management of the yeast cell in the presence of weak acids. *Physiol. Plant.* 3:376-401. Ref. 1950. 450 P564
- 26811 MARTIN-LEAKE, H. Varietal 'running out.' *Mother Earth* 4(3):43-46. Summer 1950. 56.8 M85
- 26812 MASCRE, M., and DEYSSON, G. Action du para-amino-salicylate de sodium (P.A.S.Na) sur la division des cellules végétales. *Ann. Pharm. Franç.* 8: 604-612. Sept./Oct.1950. 396.8 An7
- 26813 MATHUR, R. S., LILLY, V. G., and BARNETT, H. L. Partial vitamin deficiencies in four strains of *Colletotrichum lindemuthianum*. *Indian Phytopath.* 2:160-165. Ref. 1949. 464.8 In2



- 26814 MAUME, L., and DULAC, J. Diagnostic foliaire de blé à un âge physiologiquement déterminé. Paris. Acad. des Sci. Compt. Rend. 231:1084-1085. Nov.13, 1950. 505 P21
- 26815 MAUNDER, D. T. Studies of the metabolism of flat-sour spoilage bacteria. Urbana, 1950. 5 p. 448.2 M44
- Thermophilic bacteria.
- 26816 MITCHELL, J. E., and ANGEL, C. R. The growth-stimulating properties of a metabolic product of *Fusarium moniliforme*. (Abs.) Phytopathology 41:26-27. Jan. 1951. 464.8 P56
- 26817 MÖLLER, E. F. Die wuchsstoffe der mikroorganismen unter besonderer berücksichtigung der hefen. Brauwissenschaft 1950:229-235. (Concl.) Ref. Dec. 1950. 390.8 B733
- 26818 MONOT, G. Essais de biormones. Pomme de Terre Franç. 14(136):18. Jan. 1951. 75.8 P77
- 26819 MUKHERJI, D. K. Early stages of growth of wheat plants after vernalisation. Cur. Sci. 19:345-346. Nov. 1950. 475 Sci23
- 26820 MÜKSCH, L. Eine methode zur bestimmung des optimalen grundwasserstandes. Bodenkultur 4:376-378. 1950. 19 B635
- For plants.
- 26821 MUNN, M. T. Lettuce seed germination problems. Assoc. Off. Seed Anal. Proc. 40:119-122. 1950. 61.9 As7
- 26822 NAWAZ, S. M. Development of cotton seed and lint during the second phase of boll maturation. Indian J. Agr. Sci. 19:61-88. Mar. 1949. 22 Ag831
- 26823 NAYLOR, A. W., and RAPPAPORT, B. N. Studies on the growth factor requirements of pea roots. Physiol. Plant. 3:315-333. Ref. 1950. 450 P564
- 26824 NELSON, J. M. Phenol oxidases and plant respiration. In Symposium on Copper Metabolism, Johns Hopkins University, 1950. Copper metabolism, p. 76-88. Ref. Baltimore, Johns Hopkins Press, 1950. 386.2 Sy62
- Includes discussion.
- 26825 NELSON, K. S. The effects of nitrogen fertilizers on Gardenia buds. Canad. Florist 45(23):32. Dec. 1, 1950. 80 C163
- 26826 NICHOLS, L. P., and HONEY, E. E. Gray wall or vascular browning of tomatoes in Pennsylvania. Plant Dis. Rptr. 35:55-56. Jan. 15, 1951. 1.9 P69P
- 26827 NOYES, F. B. Heliotropism of cacti. Cactus & Succulent J. 22:190-191. Nov./Dec. 1950. 451 C11
- 26828 OZOL, A. M. Osmotic pressure in leaves and annual shoots of nuts of the Juglans genus. (In Russian.) Akad. Nauk SSSR. Dok. 74:623-626. Sept. 21, 1950. 511 P444A
- 26829 PATTANAIK, S. The effect of manganese on the catalase activity of rice plant. Plant & Soil 2:418-419. Dec. 1950. 450 P696
- 26830 PENFOLD, A. R., and others. The occurrence of a physiological form of *Backhousia citrifolia* F. Muell. containing laevo-citronellal. Austral. J. Sci. 13: 27. Aug. 1950. 475 Au72
- F. R. Morrison, H. H. G. McKern, J. L. Willis, and M. C. Spies, joint authors.
- 26831 PENNISI, L. On the supposed influence of fertilization and exposition of plants upon the vitamin C, acid and total solids content, in relation to the degree of maturity of oranges. (In Italian.) Ann. della Sper. Agr. (n.s.) 4:969-974. 1950. 16 An76
- English summary.
- 26832 PERUCCI, E. Influence of potash on seed production in tobacco. (In Italian.) Tabacco 54:327-329. Oct. 1950. 69.8 T115
- 26833 RAUT, C. A cytochrome deficient variant of *Saccharomyces cerevisiae*. (Abs.) Genetics 35:686. Nov. 1950. 442.8 G28
- 26834 RAVEUX, R. Influence de la nature de l'aliment azoté sur la production d'alcool par *Sterigmatocystis nigra*. Paris. Acad. des Sci. Compt. Rend. 231:1107-1108. Nov. 13, 1950. 505 P21
- 26835 RUSSELL, R. S. The use of radioactive tracers in the study of plant nutrition. Oxford U. Forest Soc. J. (ser. 3) 5:38-41. 1950. 99.9 Ox2
- 26836 SAITO, Y. The effect of the transfer of foods on growing in thickness and sprouting of a few trees. (In Japanese.) Tottori Soc. Agr. Sci. Trans. 9:8-9. Dec. 1949. 513 T64
- 26837 SAKAMURA, T. Shokubutsu seirigaku [Plant physiology]. Tokyo, Mosuso Kobo, 1950. 596 p. 463.3 Sa2
- 26838 SAMPAYO, T. M., and CASTRO, D. Colchicine-induced tetraploidy in *Luzula purpurea* Link. Nature [London] 166:1114-1115. Dec. 30, 1950. 472 N21
- 26839 SANDSTRÖM, B. The ion absorption in roots lacking epidermis. Physiol. Plant. 3:496-505. 1950. 450 P564
- 26840 SCALF, R. E., and STIER, T. J. B. Effect of commercial malt sprouts on the anaerobic growth of distillers' yeast. Ky. Acad. Sci. Trans. 13:69-77. Oct. 1950. 500 K41
- 26841 SCHERR, G. H. The effect of 9:10-bishydroxy-methyl-1:2-benzanthracene and alpha-naphthalene acetic acid on the cell division mechanism in *Saccharomyces cerevisiae*. (Abs.) Genetics 35:690. Nov. 1950. 442.8 G28
- 26842 SCHOU, L., and others. The path of carbon in photosynthesis. XI. The role of glycolic acid. Physiol. Plant. 3:487-495. Ref. 1950. 450 P564
- A. A. Benson, J. A. Bassham, and M. Calvin, joint authors.
- 26843 SEEMANN, F. Zur cH-abhängigkeit der wasserpermeabilität des protoplasmas. Protoplasma 39: 147-175. Ref. 1950. 442.8 P94
- 26844 SEMPLO, C. Control of, predisposition to, and disease understood as functional disequilibria (with particular reference to studies on wheat. (In Italian.) Phytopath. Z. 17:287-292. Ref. Nov. 1950. 464.8 P562
- 26845 SEN GUPTA, J. C., and MUKHERJI, D. K. Studies on the physiology of growth and development of mung (*Phaseolus aureus* Roxb.). Indian J. Agr. Sci. 19: 207-254. June 1949. 22 Ag831
- 26846 SEYBOLD, A. Chromatographie der blattfarbstoffe. (Eine erwidern.) Planta 38:601-602. 1950. 450 P693
- 26847 SHAH, R. Negatively geotropic roots in waterlogged canes. Sugar 46:39. Jan. 1951. 65.8 F11
- 26848 SHARPLES, G. C., and HILGEMAN, R. H. Progress report: effects of hormone spray applications upon the development and ripening of date fruit. Date Growers' Inst. Rpt. 27:14. 1950. 81 D26
- 26849 SHENBERGER, L. C. What "goes on" inside the seed germinator. Assoc. Off. Seed Anal. Proc. 40: 71-76. 1950. 61.9 As7
- 26850 SIMMONDS, F. J. Further effects of the defoliation of *Cordia macrostachya* (Jacq.) R. and S. Canad. Ent. 83:24-27. Jan. 1951. 421 C16
- 26851 SISLER, H. D., and COX, C. E. Some effects of tetramethylthiuramdisulfide on metabolism of conidia of *Fusarium*. (Abs.) Phytopathology 41:32. Jan. 1951. 464.8 P56
- 26852 SMITH, L., SIEBURTH, L. R., and NORBY, B. The relation of oxygen concentration in barley seeds to the biological effects of X-ray. (Abs.) Genetics 35:692. Nov. 1950. 442.8 G28
- 26853 SMITH, P. F., and REUTHER, W. The response of young Valencia orange trees to differential boron supply in sand culture. Citrus Mag. 13(5):33-34. Jan. 1951. 80 C498
- 26854 SMOCK, R. M., and GROSS, C. R. Studies on respiration of apples. N. Y. (Cornell) Agr. Expt. Sta. Mem. 297, 47 p. Ref. Mar. 1950. 100 N48C
- 26855 SPERRY, O. E. The effects of 2,4-D on bitterweed seed formation. Sheep & Goat Raiser 31(4): 26-27. Jan. 1951. 45.8 Sh3
- 26856 STEINBERG, R. A. The copper nutrition of green plants and fungi. In Symposium on Copper Metabolism, Johns Hopkins University, 1950. Copper metabolism, p. 115-140. Ref. Baltimore, Johns Hopkins Press, 1950. 386.2 Sy62
- Includes discussion.
- 26857 STEVENS, O. A. How plants pass the winter. N. Dak. Outdoors 13(6):8-9. Dec. 1950. 412.9 N815
- 26858 STILLE, B. Eine mikrobiologische methode zum nachweis von samen- und wurzelausscheidungen. Arch. f. Mikrobiol. 15:149-151. Ref. 1950. 442.8 Ar26
- 26859 STOLP, P. M. F. Wunderbares pflanzenleben. Nat. u. Nahr. 4(17/18):7-8. Sept. 1950. 80 N218
- 26860 STUMPEL, J. M. H., and RIETBERG, H. De invloed van het weer op de groei van de suikerbieten. I. [The influence of weather on the growth of sugar beets. I.] Inst. v. Ration. Suikerprod. Meded. 2:65-89. 1950. 66.9 B45
- 26861 SVETOZAROVA, V. V., and ELLENGORN, I. A. E. Fertilization process in plants. (In Russian.) Selekt. i Semen. 17(9):24-26. Sept. 1950. 61.9 Se5
- Observations on Tulipa.



- 26862 SWANSON, C. P., and GOODGAL, S. H. The effect of metabolic inhibitors on the ultraviolet induced mutation rate in *Aspergillus terreus*. (Abs.) *Genetics* 35: 695-696. Nov.1950. 442.8 G28
- 26863 SYLVAIN, P. G. Programa de Investigación sobre fisiología del cafeto. Turrialba 1:88-91. Oct. 1950. 8 T86
- 26864 TAKEMATSU, T. Some studies on the constriction phenomena of the genus *Raphanus* induced by the treatment of plant growth substances. (In Japanese.) *Utsunomiya U. Col. Agr. B.* 1:23-41. Ref. Feb.1950. 107.6 U7B  
English summary.
- 26865 THANOS, A. Effect of ultraviolet light on the germination of spores of *Monilinia fructicola*, *Cladosporium cucumerinum*, and *C. epiphyllum*. (Abs.) *Phytopathology* 41:35. Jan.1951. 464.8 P56
- 26866 THIEL, J. Some deficiency diseases of greenhouse plants. (In Flemish.) *Cult. en Handel* 16:536-538. Sept.1950. 80 C892
- 26867 THOMAS, M. D., HENDRICKS, R. H., and HILL, G. R. The use of radioisotopes in agricultural research. *Cong. Internatl. des Indus. Agr. Rap.* 8(1):23-33. Ref. 1950. 388 C765  
Plant and soil research.
- 26868 TICQUET, C. E. Soilless culture: recent developments. *Gt. Brit. Min. Agr. Agriculture* 57:484-486. Jan.1951. 10 G79J
- 26869 TICQUET, C. E. Taking the snags out of soilless culture. *Smallholder* 84(2120):11. Jan.5, 1951. 10 Sm1
- 26870 TIKHOMIROV, B. A. In regard to the biology of plants of the Extreme North. (In Russian.) *Moskov. Obshch. Isp. Prirody. Otd. Biol. B.* (n.s.)75(4):68-75. Ref. 1950. 511 M85
- 26871 TISSIÈRES, A. Effect of azide on the respiratory system of *Aerobacter aerogenes*. *Nature* [London] 166:1115. Dec.30, 1950. 472 N21
- 26872 TOMLINSON, N., CAMPBELL, J. J. R., and TRUSSELL, P. C. The influence of zinc, iron, copper, and manganese on the production of citric acid by *Aspergillus niger*. II. Evidence for the essential nature of copper and manganese. *J. Bact.* 61:17-25. Jan.1951. 448.3 J82
- 26873 TOUS COLL, D. Los reguladores del crecimiento. *Balearic Isl. Diputación Prov. B. de Agr.* 74:7-8. Nov.1950. 15 B19  
Effects on plants.
- 26874 TRECCANI, C. P. Research on the action of ammonium salts of 2,4-D on production and precocity of tomatoes and cucumbers. (In Italian.) *Riv. della Ortofrutticoltura. Ital.* 34:177-183. Ref. Sept./Oct.1950. 86 R22  
English summary.
- 26875 TRUMBLE, H. C. Trace elements and phosphate in herbage plant nutrition. In *Symposium on Copper Metabolism*, Johns Hopkins University, 1950. *Copper metabolism*, p.336-369. Ref. Baltimore, Johns Hopkins Press, 1950. 386.2 Sy62  
Includes discussion.
- 26876 TSCHECHNE, G. Biologische betrachtung unserer blütenpflanzen. *Deut. Bienenztg.* 5:198-199, 214-216. Nov.1-Dec.1, 1950. 424.8 D483
- 26877 UTTAMAN, P. A study on the germination of *Striga* seed and on the mechanism and nature of parasitism of *Striga lutea* (Lour.) on rice. *Indian Acad. Sci. Proc. Sect. B* 32:133-142. Ref. Sept.1950. 513 In25B
- 26878 VARMA, H. P. Studies in nitrogen and carbohydrate metabolism of sugarcane. *Indian J. Agr. Sci.* 19: 255-262. June 1949. 22 Ag83I
- 26879 VEEN, R. VAN DER. Induction phenomena in photosynthesis. III. *Physiol. Plant.* 3:247-257. 1950. 450 P564
- 26880 VERMA, A. B. S. The effect of plant growth regulators in breaking the dormancy of seed pieces of potato. *Nagpur Agr. Col. Mag.* 25:30-34. Ref. June/Sept. 1950. 107.5 N132
- 26881 VIDAL, A. A. Influencia del tratamiento en autoclave sobre algunas propiedades de las proteínas del grano de maíz. *Soc. Cient. Argentina. An.* 150:173-185. Ref. Oct.1950. 516 Sol
- 26882 WAGNER, R. P., and HADDOX, C. H. The in-vivo synthesis of pantothenic acid by "pantothenicless" *Neurospora*. (Abs.) *Genetics* 35:697-698. Nov.1950. 442.8 G28
- 26883 WALP, R. L. Fern prothallia under cultivation for twelve years. *Science* 113:128-129. Feb.2, 1951. 470 Sci2
- 26884 WALSH, M. P. The effect of aminopterin on mitosis in *Allium cepa*. (Abs.) *Genetics* 35:698-699. Nov.1950. 442.8 G28
- 26885 WAREING, P. F. Growth studies in woody species. I-II. *Physiol. Plant.* 3:258-276, 300-314. Ref. 1950. 450 P564  
I, Photoperiodism in first-year seedlings of *Pinus silvestris*; II, Effect of day-length on shoot-growth in *Pinus silvestris* after the first year.
- 26886 WARNE, L. G. G. Hormones and plant development. 1-2. *Fruit-Grower* 2873:100-102; 2874:144-145. Jan.18-25, 1951. 80 F94I
- 26887 WARTIOVAARA, V. Zur erklärung der ultrafilterwirkung der plasmahaut. *Physiol. Plant.* 3:462-478. Ref. 1950. 450 P564
- 26888 WASSINK, E. C., SLUIJSMANS, C. M. J., and STOLWIJK, J. A. J. On some photoperiodic and formative effects of coloured light in *Brassica rapa*, f. *oleifera*, subf. *annua*. *Nederland. Akad. van Wetensch. Proc.* 53:1466-1475. Ref. Nov.1950. 503 Am8P
- 26889 WASSINK, E. C., KRIJTHE, N., and SCHEER, C. VAN DER. On the effect of light of various spectral regions on the sprouting of potato-tubers. *Nederland. Akad. van Wetensch. Proc.* 53:1228-1239. Oct.1950. 503 Am8P
- 26890 WASSINK, E. C., and SCHEER, C. VAN DER. On the study of the effects of light of various spectral regions on plant growth and development. *Nederland. Akad. van Wetensch. Proc.* 53:1064-1072. Sept.1950. 503 Am8P
- 26891 WENDEL, K. Chromatographie der blattfarbstoffe. (Stellungnahme zu vorstehender erwidern.) *Planta* 38:603-604. 1950. 450 P693
- 26892 WHEELER, H. E. The use of C14-labeled sucrose for "tagging" fungus mycelium. (Abs.) *Phytopathology* 41:38. Jan.1951. 464.8 P56
- 26893 WHITE, D. G., KENNARD, W. C., and TUKEY, L. D. Maleic hydrazide, a plant anesthetic which delays bloom. *Amer. Fruit Grower* 71:28, 44-45. Jan.1951. 80 G85
- 26894 WILHELM, A. F. Zur kenntnis von kalimangelerscheinungen bei der weinrebe *Vitis vinifera* L. *Phytopath. Z.* 17:240-265. Ref. Nov.1950. 464.8 P562
- 26895 WILLIAMS, W. T., and SHIPTON, M. E. Stomatal behaviour in buffer solutions. *Physiol. Plant.* 3:479-486. Ref. 1950. 450 P564
- 26896 WILLIGEN, A. H. A. DE. Conductivity and buffer capacity of potato juice as correlated with potassium supply to the plant. *Plant & Soil* 2:405-417. Dec. 1950. 450 P696
- 26897 WOLFF, T. Pollination and fertilization of the fly *Ophrys*, *Ophrys insectifera* L. in Allindelle Fredskov, Denmark. *Oikos* 2:20-59. Ref. 1950. 410 O14
- 26898 WOODBRIDGE, C. G. A note on the incidence of zinc deficiency in the Okanagan Valley of British Columbia. *Sci. Agr.* 31:40. Jan.1951. 7 Sci2  
Deficiency in fruit trees.
- 26899 YARWOOD, C. E. Inoculation methods for tobacco-mosaic virus on bean. (Abs.) *Phytopathology* 41:39. Jan.1951. 464.8 P56
- 26900 YODER, D. M. Reversibility of copper toxicity to conidia of *Sclerotinia fructicola*. (Abs.) *Phytopathology* 41:39. Jan.1951. 464.8 P56
- 26901 YOST, H. T., JR. An analysis of combined infra-red and X-ray effects on *Tradescantia* chromosomes. (Abs.) *Genetics* 35:700. Nov.1950. 442.8 G28
- 26902 ZALOKAR, M. Production of p-amino benzoic acid in *Neurospora* and adaptation to sulfonamides. (Abs.) *Genetics* 35:700. Nov.1950. 442.8 G28
- 26903 ZIMMERMAN, P. W., and KJENNERUD, J. Flowering and other responses induced in *Piqueria trinervia* with photoperiodic treatment. *Boyce Thompson Inst. Contrib.* 16:177-189. Oct./Dec.1950. 451 B69

## BIOCHEMISTRY

- 26904 ALLEN, E. K., and ALLEN, O. N. Biochemical and symbiotic properties of the Rhizobia. *Bact. Rev.* 14: 273-330. Ref. Dec.1950. 448.3 B13
- 26905 ALLISON, F. E., and DOETSCH, J. Attempts to demonstrate the production of nitrogen gas by Rhizobia. *J. Bact.* 61:47-50. Jan.1951. 448.3 J82
- 26906 ARMSTRONG, D. G., COOK, H., and THOMAS, B. The lignin and cellulose contents of certain grassland species at different stages of growth. *J. Agr. Sci. [London]* 40:93-99. Ref. Jan./Apr.1950. 10 J822



- 26907 ARONOFF, S. Chlorophyll. Bot. Rev. 16:525-588. Ref. Dec.1950. 450 B6527
- 26909 AYRÁPAA, T. On the base permeability of yeast. Physiol. Plant. 3:402-429. Ref. 1950. 450 P564
- 26909 BABBAR, I. J. Significance of dehydro-ascorbic acid in plants. Indian J. Med. Res. 38:263-268. July 1950. 448.8 In22
- 26910 CAMERON, J. W., NEWTON, A., and TEAS, H. J. Carbohydrate, auxin, niacin, and tryptophane in developing kernels of sugary and starchy maize. (Abs.) Genetics 35:659-660. Nov.1950. 442.8 G28
- 26911 CHILD, R., and NATHANAEL, W. R. N. Changes in the sugar composition of coconut water during maturation and germination. J. Sci. Food & Agr. 1:326-329. Ref. Nov.1950. 382 So12
- 26912 DAWSON, J. E., and NAIR, C. K. N. The copper amalgam electrode and its application. IV. The chemical nature of the copper complexes in peat soils and plants. In Symposium on Copper Metabolism, Johns Hopkins University, 1950. Copper metabolism, p.315-335. Ref. Baltimore, Johns Hopkins Press, 1950. 386.2 Sy62  
Includes discussion.
- 26913 DEMERS, J. M. Le phénomène de la transamination. Rev. d'Oka 24:195-221. Ref. Nov./Dec.1950. 7 Ok1  
Amino acid biochemistry in plants and animals.
- 26914 FALCO, F., EMILIANI, E., and GOLDRING, B. Influencia del nitrógeno nítrico y amoniacal sobre la formación de ácidos con el *Aspergillus niger*. Argentina. U. Nac. del Litoral. Facul. de Quím. Indus. y Agr. Rev. 19(32):42-53. 1950. 385 Sa5
- 26915 FRANK, S. The relation between carotenoid and chlorophyll pigments in *Avena coleoptiles*. Arch. Biochem. 30:52-61. Ref. Jan.1951. 381 Ar2
- 26916 HIMES, M. H. Studies on the chemical nature of "sticky chromosomes." (Abs.) Genetics 35:670. Nov. 1950. 442.8 G28  
Zea mays, *Allium cepa*.
- 26917 HOLLIS, J. P. Stimulation of melanogenesis in *Streptomyces scabies*. (Abs.) Phytopathology 41:17. Jan.1951. 464.8 P56
- 26919 HOU, H. Y. The chemical composition of certain ferns and fern allies of central Pennsylvania. Amer. Fern J. 40:233-240. Oct./Dec.1950. 450 Am35
- 26919 HOWES, F. N. Age-old resins of the Mediterranean region and their uses. Econ. Bot. 4:307-316. Ref. Oct./Dec.1950. 450 Ec7
- 26920 JENSEN, C. O., SACKS, W., and BALDAUSKI, F. A. The reduction of triphenyltetrazolium chloride by dehydrogenases of corn embryos. Science 113:65-66. Jan.19, 1951. 470 Sci2
- 26921 KLEIN, R. M. The relation of gas exchange and tyrosinase activity of tomato tissues to the level of boron nutrition of the plants. Arch. Biochem. 30:207-214. Jan.1951. 381 Ar2
- 26922 KORCHEMKIN, F. I. Methylated substances contained in the cambial sap of pine, translated by M. Slade. Feb.1950. 4 p. Translation 6390.  
Translated from Biokhimiya 14:256-258. 1949.
- 26923 KROG, H. On lichen acids, some distinctive organic substances in lichens. (In Norwegian.) Blyttia 8:91-98. 1950. 450 B622
- 26924 LANDMAN, O. E. Formation of lactase in mutants and parental strains of *Neurospora crassa*. (Abs.) Genetics 35:673-674. Nov.1950. 442.8 G28
- 26925 MILNER, H. W., and others. Measurement and stabilization of activity of chloroplast material. Arch. Biochem. 28:193-200. Sept.1950. 381 Ar2  
C. S. French, M. L. G. Koenig, and N. S. Lawrence, joint authors.
- 26926 MORSE, W. J. Chemical composition of soybean seed. In Markley, K. S., ed. Soybeans and soybean products, v.1, p.135-156. Ref. N. Y., Interscience, 1950. 60.3 M34
- 26927 NASON, A., KAPLAN, N. O., and COLOWICK, S. P. Changes in enzymatic constitution in zinc-deficient *Neurospora*. J. Biol. Chem. 188:397-406. Ref. Jan.1951. 381 J824
- 26928 ÖSTERLIND, S. Inorganic carbon sources of green algae. I-II. Physiol. Plant. 3:353-360, 430-434. 1950. 450 P564  
I, Growth experiments with *Scenedesmus quadricauda* and *Chlorella pyrenoidosa*; II, Carbonic anhydrase in *Scenedesmus quadricauda* and *Chlorella pyrenoidosa*.
- 26929 PROKOSHEV, S. M., and PETROCHENKO, E. I. Nature of gluco-alkaloids of some wild potato [*Solanum*] species. (In Russian.) Akad. Nauk SSSR. Dok. 74:541-544. Sept.21, 1950. 511 P444A
- 26930 RADET, E. Les oléagineux; la courbe de formation de la matière grasse dans le colza. Défense Agr. de la Beauce et du Perche 47:484-485. Dec.30, 1950. 14 D36
- 26931 RAMAKRISHNAN, C. V., and BANERJEE, B. N. Lipase from molds grown on oil seeds. Science 113:125. Feb.2, 1951. 470 Sci2
- 26932 STUMPF, P. K., LOOMIS, W. D., and MICHELSON, C. Amide metabolism in higher plants. I. Preparation and properties of a glutamyl transphosphatase from pumpkin seedling. Arch. Biochem. 30:126-137. Ref. Jan.1951. 381 Ar2
- 26933 SWENSON, P. A., and GIESE, A. C. Photoreactivation of galactozymase formation in yeast. J. Cell. & Compar. Physiol. 36:369-380. Ref. Dec.1950. 444.8 J822
- 26934 TONDEUR, R. Recherches chimiques sur les alcaloides de l'Erythrophleum. Brussels, 1950. 52 p. (Publications de l'Institut National pour l'Étude Agronomique du Congo Belge. Hors Série) 463.29 T61
- 26935 VENEROSO, A. Contribution à la biologie du murier. (Sum.) Cong. Internat. des Indus. Agr. Rap. 8 (1):498-499. 1950. 388 C765  
Biochemistry.
- 26936 VENKATARAMANI, K. S. Some factors governing the vitamin C content of *Trigonella foenum-graecum*. Indian Acad. Sci. Proc. Sect. B 32:112-125. Ref. Sept.1950. 513 In25B
- 26937 WATSON, J. Note on the colorimetric determination of zinc in plant material. New Zeal. J. Sci. & Technol. B, Gen. Res. Sect. 30:319-321. May 1949. 514 N48B
- 26938 WAYGOOD, E. R., and CLENDENNING, K. A. Intracellular localization and distribution of carbonic anhydrase in plants. Science 113:177-179. Feb.16, 1951. 470 Sci2

## FIELD CROPS

Includes articles on general agronomy and on crop varieties, breeding, cultural practices, and yield.

## General

- 26939 AIYER, A. K. Y. N. Mixed cropping in India. Indian J. Agr. Sci. 19:439-543. Dec.1949. 22 Ag831
- 26940 ANDERSEN, J. C. Culture of seeds of sugar beets, feed sugar beets and swedes. (In Danish.) Tidsskr. f. Frøavl 39:119-124. Jan.10, 1951. 61.8 T43
- 26941 BEESON, K. E., and HACKLEMAN, J. C. How certification, science whipped earliest seed-increase problem. South. Seedsman 14:51,62,65. Jan.1951. 61.8 So8
- 26942 BERNARD, P. La culture en bon père de famille et les assolements. Monit. Agr. 3(140):1-2. Dec.17, 1950. 14 M744
- 26943 BLÜMKE, R. Rübenweizen walzen—aber womit? Deut. Landwirt. Presse 73(24):3. Nov.18, 1950. 18 D482  
Grazing of sheep.
- 26944 BORGESON, C. New varieties for distribution in 1951. Mnn. Seed Grower 23(6):3. Dec.1950. 61.8 M66
- 26945 CLARK, B. E. How many plants should a true-ness-to-type trial contain? Assoc. Off. Seed Anal. Proc. 40:89-91. 1950. 61.9 As7
- 26946 COOKE, H. L., PEEDIN, C. D., and MOORE, R. P. Measured crop performance—corn hybrids, cotton, wheat, oats, barley. N. C. Agr. Expt. Sta. B. 373, 43 p. Jan.1951. 100 N81
- 26947 DVORIANKIN, F. A. On the variety [concept] of an agricultural crop. (In Russian.) Selek. i Semen. 17 (9):33-38. Sept.1950. 61.9 Se5
- 26948 GERM, H. Die bedeutung und prüfung der triebkraft des saatzgutes. Landwirtschaft 1950:321-323. Nov.1950. 19 L235
- 26949 INSTITUT NATIONAL POUR L'ÉTUDE AGRO-NOMIQUE DU CONGO BELGE. Rapport annuel pour l'exercice 1949. Bruselles, 1950. 312 p. 24 In7R
- 26950 KOCH, E. J., and RIGNEY, J. A. A method of estimating optimum plot size from experimental data. Agron. J. 43:17-21. Jan.1951. 4 Am34P



**26951 KRSNOKUTSKAIA GOSUDARSTVENNAIA SELEKTSIONNAIA STANTSIA.** Sbornik nauchnykh rabot za 1944-1948 gg [Collection of scientific works carried out during the years 1944-1948]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 313 p. 64.9 K86  
Field crop research.

**26952 LAUMONT, P.** Les grands assolements de la céréaliculture algérienne. Rev. Agr. de l'Afrique du Nord 48:859-862. Nov. 24, 1950. 80 R326

**26953 LIMA, G. DE, and REVERON, E.** Cuido y conservación de semillas. Agr. Venezol. 15(146):25-26. Sept. 1950. 9.95 Ag8

Storage, fumigation, and disinfection.

**26954 LIVANOV, K. V.** Fundamental problems in increasing the agricultural level in the arid district of Zavolzh'e. (In Russian.) In Krasnokutskaya Gosudarstvennaya Seleksionnaya Stantsiya. Sbornik nauchnykh rabot za 1944-1948 gg, p.181-212. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86

Agronomical research carried out at Krasnokutskaya Gosudarstvennaya Seleksionnaya Stantsiya.

**26955 NORTH CAROLINA CROP IMPROVEMENT ASSOCIATION.** 1951 sources of certified seed of cotton, corn, tobacco, potatoes, sweet potatoes, soybeans, and watermelons. Raleigh, 1950. 25 p. 61.9 N815

**26956 OHIO SEED IMPROVEMENT ASSOCIATION.** Sources of Ohio certified field crop seeds for 1951 planting. Columbus, 1951. 62 p. 225 Oh32S

**26957 RON, D.** Some remarks on crop rotation. (In Hebrew.) Hassadeh 30:672-674. Sept. 1950. 26 H27

**26958 SANTA RITA, G. V. DE.** Traditions of agronomy. (In Portuguese.) Agros [Lisboa] 33:141-147. July/Aug. 1950. 15.5 Ag82

**26959 TANDON, R. K.** Some suggestions to grow more food on farms. Agr. & Anim. Husb. 1(3):83-85. Apr./Aug. 1950. 22 Ag86

Rotation of crops in India.

**26960 VAUGH, M.** Improved cultural practices for rabi crops. Allahabad Farmer 24:214-218. Nov. 1950. 22 AL5

**26961 VAUGH, M.** A study of row-to-row spacing; rabi crops in Karchana Tahsil of Allahabad district. Allahabad Farmer 24:219-221. Nov. 1950. 22 AL5

### Cereals

**26962 ARGENTINA. DIRECCION GENERAL DE FOMENTO AGRICOLA.** Labor en el año 1949; mejoramiento y fomento de la producción de granos y forrajes. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(15):20-45. (To be cont.) Sept. 1950. 9 Ar35

**26963 BALDACCI, E., SCOTTI, T., and THALMANN, L.** The treatment of rice seeds (experimental research). (In Italian.) Riscoltura 38:214-221. Ref. Sept./Oct. 1950. 59.8 G43

**26964 BEACHELL, H. M., and BROWN, O. B.** Report on mechanization and organization of rice production in British Guiana. London? Colonial Off., 1950. 52 p. 59.24 B35

**26965 BENI, F. DE.** Land in order and farmers in action. (In Italian.) Humus 6(9):23. Sept. 1950. 16 H88

Culture of Orlando No. 10 wheat in Italy.

**26966 BREDNEV, A. P.** Selection of barley. (In Russian.) In Krasnokutskaya Gosudarstvennaya Seleksionnaya Stantsiya. Sbornik nauchnykh rabot za 1944-1948 gg, p.123-138. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86

**26967 BROOKS, J. S., and PASS, H.** Performance tests of corn varieties and hybrids, 1950. Okla. Agr. Expt. Sta. Misc. P. MP-18,40 p. Dec. 1950. 100 Ok4

**26968 BRYAN, W. W.** Queensland certified hybrid maize. 1. The story in general. Queensland Agr. J. 71:187-196. Oct. 1, 1950. 23 Q33

**26969 CARLSSON, G.** Comparative investigations of losses from spilling with different harvesting methods. (In Swedish.) Mjölpropaganda 27:143,174-175. May-June/July 1950. 44.8 M692

Grain.

**26970 CASE, E. O.** Wheat deterioration starts in the field; Kansas wheat identification schools see grain dryers as important safeguard in future harvest scenes. Right Off Cob 5(11):6-7. Dec. 1950. 59.8 R44

**26971 CLAPP, A. L., and TATUM, L. A.** Kansas corn tests, 1949. Kans. Agr. Expt. Sta. B. 342,48 p. Feb. 1950. 100 K13S

Includes a supplement on the European corn borer, by R. H. Painter and D. A. Wilbur.

**26972 DELUCQ.** Sorghos sucrier et à grains. Terre d'Occ 32:560-561. Dec. 1950. 14 Ar5

Varieties.

**26973 DOLGIKH, I. S.** To create best conditions for growing seeds [of cereals]. (In Russian.) Selekt. i Semen. 17(9):76-77. Sept. 1950. 61.9 Se5

**26974 DREIER, A. F., and others.** Nebraska corn performance tests, 1950. Nebr. Agr. Expt. Sta. Outstate Testing C. 12,15 p. Dec. 1950. 100 N270

J. H. Lonnquist, D. P. McGill, and P. L. Ehlers, joint authors.

**26975 DU TOIT, E.** Great possibilities for quick-maturing rice varieties. Farmer's Wk. [Bloemfontein] 80:10-11. Nov. 29, 1950. 24 F225

Rice culture in South Africa.

**26976 ELLIOT, C. S.** If your winter corn is still in the sack. Farmers Wk. [London] 34(5):49. Feb. 2, 1951. 10 F226

Varieties of autumn cereals which may be sown in the spring.

**26977 ERMOLENKO, A. P.** Surkhak [bibleinyi] [wheat variety]. (In Russian.) Selekt. i Semen. 17(9):50-51. Sept. 1950. 61.9 Se5

Developed by Tadzhihskaia Gosselektstansiya.

**26978 EVELYN, S. H.** Sorghum breeding in the Sudan. World Crops 3:65-68. Feb. 1951. 281.8 W892

**26979 FENAROLI, L.** La production de semences de maïs en Italie. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):488. 1950. 388 C765

**26980 FORTIN, G. N.** Quelques notes sur la culture du millet. Terre de Chez Nous 22(50):9,23. Feb. 7, 1951. 7 T27

**26981 FOURNAISE.** Les journées du riz en Camargue. Potasse 24:193-196. Dec. 1950. 57.8 P84

**26982 FRASER, J. G. C.** Present status of Saunders spring wheat [Canada]. Agr. Inst. Rev. 6:39,41-42. Jan. 1951. 7 Ag8

**26983 GAMBETTI, B.** Field of development of American corn hybrids. (In Italian.) Avvenire Agr. 58:303-306. Dec. 1950. 16 Av9

**26984 GAPEN, C. E.** Beards on or beards off? Crops & Soils 3(5):27. Feb. 1951. 6 W55

Wheat.

**26985 GEROEV, M. IA.** Winter wheat in the north-eastern zone of Bashkiria. (In Russian.) Selekt. i Semen. 17(9):45-49. Sept. 1950. 61.9 Se5

**26986 GREER, E. N.** L'amélioration de la qualité des blés britanniques. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):538. 1950. 388 C765

**26987 GRILLOT, G.** L'amélioration des blés durs au Maroc. Agriculture [Paris] 14:343-347. Dec. 1950. 14 Ag823

**26988 GRILLOT, G.** Expérimentation rizicole au Maroc. Terre Marocaine 24:489-493. Dec. 1950. 24 T44

**26989 HALLE, J.** Haferdämmerung? Deut. Landwirt. Presse 73(25):5. Dec. 2, 1950. 18 D482

**26990 INAKINA, A. S.** Selection of spring wheat. (In Russian.) In Krasnokutskaya Gosudarstvennaya Seleksionnaya Stantsiya. Sbornik nauchnykh rabot za 1944-1948 gg, p.103-118. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86

**26991 JACINTO BURGOS, J.** Cómo un bosque fué convertido en arrozal. Cult. Mod. 33:371-372. Oct. 1950. 15 C89

Louisiana.

**26992 JACKSON, B. B.** Studies in the varietal determination of German and common millet. Assoc. Off. Seed Anal. Proc. 40:57-58. 1950. 61.9 As7

**26993 KALINKEVICH, A. F.** On nutrition of cereals while making two crops. (In Russian.) Akad. Nauk SSSR. Dok. 74:557-560. Sept. 21, 1950. 511 P444A

**26994 KING, G. H.** Corn yields that pay. Prog. Farmer, Ga.-Ala.-Fla. Ed. 66:15. Jan. 1951. 6 P945G

**26995 KOOPMAN, C.** The culture of corn for grain. II. (In Dutch.) Landboue 5(2):5. Jan. 13, 1951. 12 L234

**26996 KROSBY, P.** Don't postpone the preparation of seed grain. (In Norwegian.) Norsk Landbr. 16:459-460. Dec. 8, 1950. 11 N8122

Care and viability of seed grain.



- 26997 KRUTIKHOVSKIĬ, V. K. Results of testing perennial Derzhavin rye. (In Russian.) Selek. i Semen. 17(9):72-73. Sept.1950. 61.9 Se5
- 26998 LAROSE, E., LEGROS, R., and NOULARD, L. L'amélioration des froments en Belgique en vue du perfectionnement de leur valeur d'utilisation. Cong. Internatl. des Indus. Agr. Rap. 8(1):343-371. Ref. 1950. 388 C765  
Breeding for improved milling and baking quality.
- 26999 LEIBOFF, R. O. Excelente para la región de Guatraché es el sorgo "Double Dwarf Yellow Sooner Milo." IDIA; Inform. de Invest. Agr. 3(35/36):11-12. Nov./Dec.1950. 9 Id3
- 27000 LELOUX, P. Renseignements sur l'amélioration du froment au Ruanda-Urundi. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):485. 1950. 388 C765
- 27001 LEYENDAS sobre el origen del maíz. Agro-  
tecnia 4:21-24. Sept./Dec.1950. 8 Ag825
- 27002 LONG, J. La riziculture aux Etats-Unis et ses enseignements. Bouches du Rhône Agr. 23(1040):2-4. Dec.1,1950. 14 B662
- 27003 LUCA, F. DE. Prospects for the more widespread production of hybrid corn. (In Italian.) Mezzogiorno Agr. 7(2):3-4. Jan.13/20,1951. 16 M57
- 27004 L'VOVA, I. N. Some cyto-physiological problems in pollination of cereals. (In Russian.) Selek. i Semen. 17(9):11-23. Sept.1950. 61.9 Se5  
Investigations on wheat and rye.
- 27005 MADALUNI, F. How to increase the proceeds from grain culture. (In Italian.) Agenzia Romana Note e Inform. Agr. 75:5-7. Nov.8,1950. 281.8 Ag3  
Cultural methods.
- 27006 MARTIN, J. H. Tailor made sorghums for industry and agriculture. Crops & Soils 3(5):20-23. Feb. 1951. 6W55
- 27007 MEHTA, T. R. Gram [*Cicer arietinum*] type 87. Agr. & Anim. Husb. 1(3):61-64. Apr./Aug.1950. 22 Ag86
- 27008 MIDWEST BARLEY IMPROVEMENT ASSOCIATION. Selected varieties of malting barley program. Milwaukee,1950. 11 p. 59.9 M582S
- 27009 MIDWEST BARLEY IMPROVEMENT ASSOCIATION. Selected varieties of malting barley program. "Buyer's guide". Milwaukee,1950. 14 p. 59.9 M582Se
- 27010 MILES, S. R., and NEWMAN, J. E. Performance of open-pedigree corn hybrids in Indiana. Ind. Agr. Expt. Sta. C. 340,8 p. July 1950. 100 In2P
- 27011 MOLOTKOVSKIĬ, G. KH. Branching winter rye in Bukovina. (In Russian.) Selek. i Semen. 17(9):26-30. Sept.1950. 61.9 Se5
- 27012 MOSTERT, J. F. T. Round maize seed better than flat; superior root system and drought hardiness open fruitful field for investigation. Farmer's Wk. [Bloemfontein] 80:10-11. Dec.27,1950. 24 F225
- 27013 MUTTI, U. How to win the grain contest. (In Italian.) Avvenire Agr. 58:307-308. Dec.1950. 16 Av9  
Grain culture.
- 27014 MUTTI, U. Too early sowing. (In Italian.) Avvenire Agr. 58:275-276. Nov.1950. 16 Av9  
Grain.
- 27015 NASONOVA, E. V. Branching barleys. (In Russian.) Selek. i Semen. 17(9):77. Sept.1950. 61.9 Se5
- 27016 NATIONAL INSTITUTE OF AGRICULTURAL BOTANY. Storage and drying of cereals for use as seed. Natl. Inst. Agr. Bot. Seed Notes 37,7 p. Nov.1950. 61.9 N21S
- 27017 NETHERLANDS. RIJKSINSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Wintertarwe, 1950 [Winter wheat]. Netherlands. Rinst. v. Rassenonderz. van Landbougewassen. Ber. over Rassenkeuze 89,4 p. Sept.1950. 64.9 W12
- 27018 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Report on oat variety trials. North. Ireland. Min. Agr. Mon. Rpt. 25:266-270. Jan.1951. 256.13 Ag82M
- 27019 NOYEN, J. Possibilité d'amélioration de la production du maïs dans la Province du Kasal, au Congo Belge. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):503. 1950. 388 C765
- 27020 PIACCO, R. Aspects of Italian rice. (In Italian.) Riscicoltura 38:242-250. (Cont.) Sept./Oct.1950. 59.8 G43
- 27021 PIACCO, R. The history of rice varieties cultivated in Italy. (In Italian.) Riscicoltura 38:222-238. (To be cont.) Ref. Sept./Oct.1950. 59.8 G43
- 27022 RAMONA, R. DE. El trigo de los grandes rendimientos. Cult. Mod. 33:363-364. Oct.1950. 15 C89  
Breeding.
- 27023 RUFFALDI, G. B. How we have surpassed 50 quintals of grain per hectare. (In Italian.) Romagna Agr. e Zootec. 35(10):1. July 1950. 16 R66
- 27024 SAINT-QUENTIN, M. Que faut-il penser des maïs hybrides? Rustica 23:953,957. Nov.12,1950. 14 R92
- 27025 SCHULTE-ALTHOFF, W. Kein wintergetreide mehr? Orion 5:909-911. Nov.1950. 474 Or4  
Seed vernalization.
- 27026 SCRUGGS, C. G. Hybrid corn didn't just happen. Prog. Farmer, Tex. Ed. 66(2):62. Feb.1951. 6 T311
- 27027 SCRUGGS, C. G. Six steps to full cribs. Prog. Farmer, Tex. Ed. 66(2):17,119. Feb.1951. 6 T311
- 27028 SCRUGGS, C. G. Texas corn champions. Prog. Farmer, Tex. Ed. 66:15,76-77. Jan.1951. 6 T311  
Corn yields.
- 27029 SERVI, G. Selection of the chief varieties of wheat interesting to Tuscany. (In Italian.) Agr. Tosc. 5: 443-446. Dec.1950. 16 Ag827
- 27030 SHAW, R. H., and THOM, H. C. S. On the phenology of field corn, the vegetative period. Agron. J. 43:9-15. Jan.1951. 4 Am34P
- 27031 SHEVCHENKO, T. Z. Joint culture of carp and Tuscarora rice in artificial ponds. (In Russian.) Rybnoe Khoz. 26(10):51-54. Oct.1950. 414.8 R962
- 27032 SIROTTI, G. How 50 quintals of grain per hectare can be produced. (In Italian.) Romagna Agr. e Zootec. 35(12):1-3. Aug.1950. 16 R66
- 27033 SOENEN, M. Considérations sur la sélection des blés en vue de l'amélioration de leur valeur moutinière. Cong. Internatl. des Indus. Agr. Rap. 8(1):373-376. 1950. 388 C765
- 27034 SUMANOV, E. I. A. Reversion of oats into wild oats. (In Russian.) Selek. i Semen. 17(9):73-74. Sept. 1950. 61.9 Se5
- 27035 TAMURA, J. Anzen tashu inasaku-ho [Safety methods of a rich harvest of rice cultivation]. Tokyo, Chikyo Shobe,1950. 139 p. 59.24 T15
- 27036 THOMAS, I., and WATSON, E. R. New cereal varieties in Australia, 1948-49. West. Austral. Dept. Agr. J. (ser.2)27:269-272. Sept.1950. 23 W52J
- 27037 TONINI, G. Reaping and threshing. (In Italian.) Romagna Agr. e Zootec. 35(9):1. June 1950. 16 R66  
Grain.
- 27038 VAILLANT, A. Le riz au Cameroun. Agron. Trop. 5:606-621. Nov./Dec.1950. 26 Ag86  
Culture.
- 27039 VALDEYRON, G. Enseignements techniques à tirer de la campagne de céréales 1949-1950 en Tunisie. Tunisie Agr. 51:91-101. Dec.1950. 24 T832

#### Fiber Crops

- 27040 BELGIAN cultivation tests with linen-flax in 1946, translated by E. Selman-Towt. n.d. 9 p. Translation 6417.  
Translated from Lin, No.7. Sept.1947.
- 27041 BRANDÃO FILHO, J. S. The culture of pita [*Furcraea gigantea*]. (In Portuguese.) Seleç. Agr. 5(56): 23-28. Dec.1950. 9.2 Se4
- 27042 BRYNAERT, J. Les methodes de sélection appliquées à l'Urena lobata (jute congolais) à la Station Experimentale de Gimbi (Bas-Congo Belge). (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):486. 1950. 388 C765
- 27043 CAMPBELL, I. J. To thousands of southern farmers—Coker means cotton. Cotton Gin & Oil Mill Press 52(2):10-13,15,35-36. Jan.20,1951. 304.8 C822  
Cotton breeding and seed production.
- 27044 CARPIO B., R. DEL. Progreso agrícola regional con la intervención del semillero oficializado de algodón Tangüis de Nasca en el renglón algodonnero. Agronomía [Lima] 15(63):80-82. Sept./Oct.1950. 9.8 Ag83
- 27045 COENE, R. DE. Méthodes actuelles de sélection cotonnière appliquées à Bambesa au Congo Belge. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):485-486. 1950. 388 C765
- 27046 CRANE, J. C., and WELLMAN, F. L. Edad del henequén en relación con las características de la fibra. Turrialba 1:74-77. Oct.1950. 8 T86  
English summary.



- 27047 CROSBY, J. This is the way to grow cotton. *Calif. Farmer*, North. Ed. 194:149. Feb.10,1951. 6 C126
- 27048 DELCROIX, A. M. Quelques notes sur la culture et la technologie de la ramie ou soie végétale, *Boehmeria nivea*. *Cour. Agr.* 15(21):24. (To be cont.) Oct.11,1950. 24 C83
- 27049 DEWEZ, J. La selection du cotonnier dans la Plaine de la Ruzizi au Congo Belge. (Sum.) *Cong. Internat. des Indus. Agr. Rap.* 8(1):485. 1950. 388 C765
- 27050 FLAX research in Great Britain. n.d. 13 p. Translation 6389.  
Translated from *Vlastechnik*, No.1. Mar.1947.
- 27051 FREDERIKSEN, P. S. How shall we cultivate flax for fibre in Denmark, translated by E. Selman-Towt. n.d. 8 p. Translation 6408.  
Translated from *Lin* 3:15-18. Jan.-Feb.1949.
- 27052 FREDERIKSEN, P. S. Planning field research on linen flax, translated by E. Selman-Towt. n.d. 10 p. Translation 6415.  
Translated from *Lin* 8:181. Oct.1947.
- 27053 FREDERIKSEN, P. S. The quality of our crops of flax for fibre. n.d. 10 p. Translation 6414.  
Translated from *Lin* 4:81. May-June 1948.
- 27054 FRÖIER, K., DANELL, N., and ZIENKIEWICZ, H. Method of cultivation of hemp and flax for fibre during 1949, translated by E. Selman-Towt. n.d. 8 p. Translation 6402.  
Translated from *Lin*, No.2. Mar.1949.
- 27055 GANGULI, P. M. Rhea [*Boehmeria nivea*] cultivation in Assam. *Indian Farming* 11:157. Apr.1950. 22 In283
- 27056 GODOY JUNIOR, C. Critical period for the cotton plant in the climate of São Paulo. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 25:329-336. Nov./Dec.1950. 9.2 R324
- 27057 GRANHALL, I., and LARSON, N. G. Experimental flax-fields in Sweden 1943-1944, translated by E. Selman-Towt. n.d. 2 p. Translation 6385.  
Translated from *Vlastechnik* 4:57-58. June 1947.
- 27058 GRANHALL, I. Experimental flax-fields in Sweden 1938-1942, translated by E. Selman-Towt. n.d. 2 p. Translation 6387.  
Translated from *Vlastechnik*, No.4. June 1947.
- 27059 GRANHALL, I. Swedish research in linen flax 1938-1945, translated by E. Selman-Towt. n.d. 4 p. Translation 6412.  
Translated from *Lin* 1:2. Jan./Feb.1947.
- 27060 IVEY, L. J. The development and present status of American-Egyptian cotton in the irrigated areas of the Southwest United States. *Egypt. Cotton Gaz.* 11:41-46. Sept.1950. 72.8 Eg9
- 27061 JACOBSEN, H., and FREDERIKSEN, P. S. Can information of the cultivation of our crops of linen-flax be brought into use by means of a statistical processing, translated by E. Selman-Towt. n.d. 12 p. Translation 6407.  
Translated from *Lin* 2(2):31-42. Mar.1948.
- 27062 KUNDU, B. C. Cultivation of 'ramie' plant. *Indian Farming* 11:169-171. Apr.1950. 22 In283
- 27063 LABRIGEO, J. Las plantas productoras de "palma." *Chacra* 21(242):60-61. Jan.1951. 9 C34
- 27064 LUNA ERCILLA, C. A. El cultivo del cadillo. *Charla Rur.* 145:50-51. Nov.1950. 9 C37  
*Urena lobata*.
- 27065 MATUROV, D. M. Seed production of fibre flax. (In Russian.) *Selek. i Semen.* 17(9):5-7. Sept.1950. 61.9 Se5
- 27066 NEDERLANDS VLASINSTITUUT. Annual report of the Netherlands' Institute for the Cultivation and Processing of Flax, at Wageningen, during 1948, translated by E. Selman-Towt. May 1949. 32 p. Translation 6420.  
Translated from Netherlands' Flax Institute. B. 10.
- 27067 PAKISTAN CENTRAL COTTON COMMITTEE. An introduction to Pakistan cottons. Karachi, 1950. 15 p. 72 P17
- 27068 POE, W. D. What should cotton farmers do in 1951? *Prog. Farmer*, Carolinas-Va. Ed. 66:15,26-27. Jan.1951. 6 P945
- 27069 RICHTER R., A. Estudio de la relación peso de la semilla x altura de las plantas y producción en el algodónero. *Agr. Venezol.* 15(146):20-21. Sept.1950. 9.95 Ag8
- 27070 SPEAIGHT, W. L. South African jute and cordage progress; rope and twine shortage. *Cordage World & Indus. Textiles* 32(375):19. Jan.1951. 73.8 C813  
*Hibiscus cannabinus*.
- 27071 THOMAS, W. I. Planting cotton. *Prog. Agr.* Ariz. 2(4):10. Jan./Mar.1951. 6 P9452
- 27072 VITALE, G. La canapa napoletana, produzione e lavorazione [Italian hemp, production and processing]. *Frattamaggiore*, 1950. 86 p. 73.2 V83
- Forage Crops and Grasses**
- 27073 AHLGREN, G. H., and DOTZENKO, A. Broomgrass strain performance trials. *N. J. Agr. Expt. Sta. B.* 753,4 p. Dec.1950. 100 N46S
- 27074 ALLRED, B. W. Good grasses—take your choice. *Prog. Farmer*, Tex. Ed. 66:19,85. Jan.1951. 6 T311  
Varieties in Texas.
- 27075 ANDREEV, G. T. Autumn selection and harvesting of seed plants of forage cabbage. (In Russian.) *Selek. i Semen.* 17(9):60-61. Sept.1950. 61.9 Se5
- 27076 ANDRIBET, P. Prairies naturelles. *Agr. Charentais* 6(2):2. Jan.31,1951. 14 Ag825
- 27077 BECK, V. S. Tall wheatgrass [Agropyron]; Utah finds a promising new crop for alkali soils. *West. Livestock J.* 29(7):44,79-80. Jan.15,1951. 6 F2278
- 27078 BERNARD, P. Ce qu'il faut savoir avant de créer une luzernière. *Monit. Agr.* 3(141/142):2. Dec.24/31,1950. 14 M744
- 27079 BERTSCH, M. Fescue pasture; long-season grass thrives on low fertility, wet soil. *Prairie Farmer* 124,i.e.123(2):16-17. Jan.20,1951. 6 P883
- 27080 BISSLAND, H. R. SCS pasture work helps cattlemen; pangola, clover cited by State leader as big boons to industry. *Fla. Cattleman* 15(4):40. Jan.1951. 43.8 F66
- 27081 BLÜMKE. Wann dürfen wir luzerne beweidet? *Deut. Landwirt. Presse* 73(26):4-5. Dec.16,1950. 18 D482
- 27082 BORG, J. Our pasture culture. (In Swedish.) *Mjölpropagandan* 27:170-171. June/July 1950. 44.8 M692
- 27083 BRÜNNER. Muss das grundland extensiv sein? *Deut. Landwirt. Presse* 73(24):3-4. Nov.18,1950. 18 D482
- 27084 CHEVALIER, A. Le développement de la culture du lupin doux en Allemagne occidentale. *Rev. Internat. de Bot. Appl. d'Agr. Trop.* 30:528-529. Sept./Oct.1950. 26 R323
- 27085 CLOVIS, J. L. Nothing but grass. *Sealtest Dairyman* 5:4-5. Jan./Feb.1951. 44.8 Sel  
Pasture management.
- 27086 COOK, C. W., and HARRIS, L. E. The nutritive value of range forage as affected by vegetation type, site, and stage of maturity. *Utah. Agr. Expt. Sta. B.* 344, 45 p. Ref. Dec.1950. 100 U11
- 27087 COSSU, A. Increase forage crops. (In Italian.) *Sardegna Agr.* 28(37/38):3. Nov.30,1950. 16 Sa7  
Culture.
- 27088 CULLINAN, B. Birdsfoot trefoil—a New York seed crop. *Assoc. Off. Seed Anal. Proc.* 40:118-119. 1950. 61.9 As7
- 27089 DENMARK. STATENS FORSØGSVIRKSOMHED I PLANTEKULTUR. Seed mixtures for grasslands. (In Danish.) *Tidsskr. f. Planteavl* 54:167-170. 1950. 11 T439
- 27090 DENMARK. STATENS FORSØGSVIRKSOMHED I PLANTEKULTUR. State variety trials with feed beets. (In Danish.) *Tidsskr. f. Planteavl* 54:159-161. 1950. 11 T439
- 27091 DENMARK. STATENS FORSØGSVIRKSOMHED I PLANTEKULTUR. Variety trials with swedes 1946-1949. (In Danish.) *Tidsskr. f. Planteavl* 54:181-184. 1950. 11 T439
- 27092 DOTZENKO, A., and AHLGREN, G. H. Effect of cutting treatments on the yield, botanical composition, and chemical constituents of an alfalfa-bromegrass mixture. *Agron. J.* 43:15-17. Jan.1951. 4 Am34P
- 27093 DUBOC, J. L. Sustained-yield for grasslands. In Thompson, M., and Freeman, O. W., eds. The conservation of Northwest resources, p.107-122. Seattle, Northwest. Conserv. League, 1950. 279.003 T37
- 27094 DUFOURNET, R. Les paturages et l'élevage dans la région de Bealanana (Madagascar). *Agron. Trop.* 5:593-605. Nov./Dec.1950. 26 Ag86



- 27095 ELENEVSKAIA, E. V. Harvesting of second growth in meadows. (In Russian.) *Sotsialist. Zhivotnovod* 12(8):24-26. Aug.1950. 49 So71
- 27096 ENGELHARD, J. Il est temps d'augmenter le rendement de nos prairies. *Paysan Franç.* 26(396):12-13. Dec.1950. 14 P29  
Management.
- 27097 FINCH, F. H. The almost universal cropgrass. *Rev. River Plate* 108(3055):27. Oct.31,1950. 286.8 R32  
Pasture management in Argentina.
- 27098 FONDARD, L. Comment les Hollandais cultivent leurs prairies. *Révell Agr.* 59:370-371. Dec.15, 1950. 14 R322
- 27099 GERICKE, S. Wie hoch sind unsere wiesenerträge? *Deut. Landwirt. Presse* 73(26):4. Dec.16,1950. 18 D482
- 27100 GOLDIN, A. Winter crops for ensilage. (In Hebrew.) *Hassadeh* 30:676. Sept.1950. 26 H27
- 27101 GOVANDE, G. K. New strains of pulses and millets in Baroda State. *Indian Farming* 11:153-154. Apr.1950. 22 In283
- 27102 GRIFFITHS, D. J. The liability of seed crops of perennial ryegrass (*Lolium perenne*) to contamination by wind-borne pollen. *J. Agr. Sci. [London]* 40:19-38. Ref. Jan./Apr.1950. 10 J822
- 27103 GROS, A. Pour une production fourragère plus intensive. *B. des Engrais* 325:161-164. Nov.1950. 57.8 B87
- 27104 HARRISON, C. M. Get a good stand of legumes. *Hoard's Dairyman* 96:123. Feb.10,1951. 44.8 H65  
Forage plants.
- 27105 HARRISON, C. M. More grass on fewer acres. *Hoard's Dairyman* 96:70. Jan.25,1951. 44.8 H65  
Culture of forage plants.
- 27106 HART, G. H. Brush burning; blazing a trail that may lead to reclaiming to grass millions of acres of worthless brushland. *Amer. Cattle Prod.* 32(9):9-10,13, 31-34. Feb.1951. 49 P94
- 27107 HARVEY, C., SCHEMBER, V. E., and POTTS, R. C. Bur clover and related species. *Seed World* 68(3): 26,28. Feb.2,1951. 61.8 Se52
- 27108 HARVEY, N. William Curtis and the British grasses. *Gt. Brit. Min. Agr. Agriculture* 57:487-490. Jan.1951. 10 G79J
- 27109 HASLAM, B. E. Check that brush! Encroachment of brush on ranges reduces stockmen's feed resources. *West. Livestock J.* 29(7):95,97,99. Jan.15,1951. 6 F2278
- 27110 HAYWARD, J. Mixed clover-grass pasture as green feed; striking results of experiments at Potchefstroom. *Farmer's Wk. [Bloemfontein]* 80:45. Jan.24, 1951. 24 F225
- 27111 HODSON, E. A. An all-year grazing "show window." *Prog. Farmer, Miss.-Ark.-La. Ed.* 66(2):18, 119. Feb.1951. 6 So81  
Pasture management.
- 27112 HOLT, E. C., and others. Cool season grasses at College Station, Denton and Iowa Park, 1948-50. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1310,5 p. Jan.12,1951. 100 T31P  
D. I. Dudley, L. E. Brooks and R. C. Potts, joint authors.
- 27113 HOWARD, W. E. Poison-dye combinations can save brush burn seedlings from wild life. *Calif. Cattleman* 1951:14-16. Feb.1951. 43.8 C12  
Seeds treated with yellow dye and sodium fluoroacetate.
- 27114 HURWITZ, S. Alfalfa-growing. (In Hebrew.) *Hassadeh* 31:68-70. Nov./Dec.1950. 26 H27
- 27115 HURWITZ, S., GOLDIN, A., and COHEN, D. Experiments in the cultivation of fodder beet at Ein-Harod in 1949/50. (In Hebrew.) *Hassadeh* 31:65-67. Nov./Dec.1950. 26 H27
- 27116 JAHR, G. W. Die weide, arten und anbauweise. *Unser Wald* 3(3):8-9. Mar.1950. 99.8 Un7
- 27117 JENNY, G. Dishpan pastures; miniature meadows show way to improve Wyoming hay. *Mont. Farmer-Stockman* 38(7):8-9. Dec.1,1950. 6 M764
- 27118 JOHNSON, R. G. Grassland agriculture in Montana. *Mont. Farmer-Stockman* 38(9):6,25. Jan.1,1951. 6 M764
- 27119 JOHNSON, R. G. The range man's resource. *Mont. Wool Grower* 25(2):8. Feb.1951. 45.8 M762  
Grass.
- 27120 JOYCE, F. Make pastures permanent, save costs. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 66:15,78. Jan.1951. 6 P945K
- 27121 KAWASE, I. Bokuso to shiryo sakumotsu [Grass and fodder]. Tokyo, Asahi Shimbun-Sha, 1950. 157 p. (Asahi Nogyo Sensho 13) 60 K17
- 27122 KORIAKINA, A. F. Development of new forms of alfalfa. (In Russian.) In *Krasnokutskaya Gosudarstvennaya Selektionsnaya Stanitsia. Sbornik nauchnykh rabot za 1944-1948 gg.* p.150-166. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 27123 KRUTZSCH, H. Schafweide. *Forstwirt. Holzwirt.* 4:314-315. Oct.1/15,1950. 99.8 F7793
- 27124 LANDSTROM, K. S., and PLATT, K. B. Needs and opportunities for conservation of the public range. *West. Farm Econ. Assoc. Proc.* 23:144-148. 1950. 280.9 W527P
- 27125 LATHROP, W. H. Institute dealt with beef and grass. *Soil Conserv.* 16:132-134,138. Jan.1951. 1.6 So3S  
Iowa-Minnesota Beef Cattle and Land Institute.
- 27126 LEPERANCE, R. La culture du ladino dans le New-Hampshire-1-2. *Terre de Chez Nous* 22(49):8; (51):6,14. Jan.31-Feb.14,1951. 7 T27
- 27127 LIVANOV, K. V. In regard to the role of the soil water regime in growing yellow alfalfa seeds in the field crop rotation of Zavolzh'e district. (In Russian.) In *Krasnokutskaya Gosudarstvennaya Selektionsnaya Stanitsia. Sbornik nauchnykh rabot za 1944-1948 gg.* p.213-233. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K83
- 27128 LODI. STAZIONE SPERIMENTALE DI PRATICOLTURA. Relazione sull'attività nell'anno 1949. [Report for the year 1949]. Lodi, 1950. 58 p. 60.9 L82
- 27129 LYSIKOV, V. N. Utilization of wild-growing legumes and grasses in Kirgizia. (In Russian.) *Selekt. i Semen.* 17(9):42-44. Sept.1950. 61.9 Se5
- 27130 MALININA, E. E. Selection of chickpea. (In Russian.) In *Krasnokutskaya Gosudarstvennaya Selektionsnaya Stanitsia. Sbornik nauchnykh rabot za 1944-1948 gg.* p.139-149. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 27131 MANN, D. H. Alkaline soil will grow perennial grass. *Utah Farmer* 71:121,136. Feb.15,1951. 6 D45
- 27132 MARCHAL, A. Les pénicillaires cultivés au Niger. *Agron. Trop.* 5:582-592. Nov./Dec.1950. 26 Ag86  
Pennisetum.
- 27133 MATTHEWS, D. L., and BATTLE, W. R. A survey of variability in alsike clover (*Trifolium hybridum* L.). *Agron. J.* 43:45-46. Jan.1951. 4 Am34P
- 27134 MEIJERS, P. G. The cultivation of alfalfa. *Overijsselsch Landbbl.* 32(1577):5; (1580):9; (1582):7. (Concl.) Nov.4,25,Dec.9,1950. 12 Ov2
- 27135 MELLE. STATION DE SÉLECTION DES PLANTES. La culture du raygrass d'Italie, by H. Reyn-tens. Melle, 1950. 2 p. 60.1 M48
- 27136 MODENA, A. "Danish oats" as a forage and seed crop in the mountains. (In Italian.) *Agr. Tosc.* 5: 459-461. Dec.1950. 16 Ag827
- 27137 MODENA, A. An observation on the planting of artificial mountain pastures. (In Italian.) *Agr. Tosc.* 5: 450. Dec.1950. 16 Ag827
- 27138 MOISEEVA, V. N. Selection of crested wheatgrass [*Agropyron cristatum*]. (In Russian.) In *Krasnokutskaya Gosudarstvennaya Selektionsnaya Stanitsia. Sbornik nauchnykh rabot za 1944-1948 gg.* p.167-171. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 27139 MORTON, L. W. A recent problem in the testing of Kentucky bluegrass. *Assoc. Off. Seed Anal. Proc.* 40:82-84. 1950. 61.9 As7
- 27140 MOVSIANTS, A. P. Harvesting, measuring and utilization of coarse feeds [hay and straw]. (In Russian.) *Sotsialist. Zhivotnovod.* 12(8):14-23. Aug.1950. 49 So71
- 27141 MÜLLER DEFRADAS, R. Sorgos forrajeros. *Charla Rur.* 145:26,54. Nov.1950. 9 C37  
Culture, hay making, and silage.
- 27142 MYRE, M. A few words on pastures and forage plants. (In Portuguese.) *Gaz. do Agr.* 2:217-218. Sept.1950. 24 G25  
Mozambique.
- 27143 NÉGRIER. Le kudzu; excellent fourrage américain. *Porc* 21(8):32-33. Oct.1950. 46.8 P822
- 27144 OGLESBY, J. R., JR. Green with crimson clover. *Tractor Farming* 34(2):4-5. Spring 1951. 58.8 T672  
Southern States.
- 27145 PLOWES, D. C. H. SOS—"save our soil"; importance of veld management and fodder reserves. *Rhodesian Farmer* 4(14):15. Dec.6,1950. 24 R347  
Warns against over-stocking of the veld.



27146 PRESTON, A. L., JR. Extra acres from pasture crops. *Kraftsman* 8(6):9. Nov./Dec.1950. 44.8 K85

27147 PRINCE, F. S., and MOORE, G. B. Surveying the results of a Green Pastures Program. *Better Crops Plant Food* 34(10):6-9,46-48. Dec.1950. 6 B46

27148 RIEGEL, A., ALBERTSON, F. W., and HOPKINS, H. H. Yields and utilization of forage on a mixed prairie in west central Kansas. *Kans. Acad. Sci. Trans.* 53:455-472. Ref. Dec.1950. 500 K13T

27149 RIEWE, M. E., and TURNER, W. F. Performance of legumes at the Angleton Station, 1949-50. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1309, 2 p. Jan.12,1951. 100 T31P

Yield by strains.

27150 ROLFO, F., and ODOZABAL, O. Ensayos con distintas variedades de Vicias. *Asoc. de Ingen. Agron. Rev.* 21(88):12-19. Mar.1950. 290.9 As73

27151 RUFIN, G. La production fourragère. *Jura Agr. (n.s.)* 66:1,3. Jan.1,1951. 14 J97

27152 RYCKE, E. DE. La betterave fourragère et demi-sucrière. *Cour. Hort.* 12:671-672. Dec.1950. 80 C834

27153 SAINI, H. R., and MALIK, H. C. Influence of some of the environmental factors on the yield of green fodder and seed in berseem in the Punjab. *Indian J. Agr. Sci.* 19:277-294. Ref. June 1949. 22 Ag83i

27154 SAVENKOVA, E. P. Varieties of serradella [*Ornithopus*]. (In Russian.) *Selek. i Semen.* 17(9):75. Sept.1950. 61.9 Se5

27155 SERVISS, G. H. My experience with birdsfoot trefoil [*Lotus corniculatus*]. *Amer. Agr.* 148:108,117. Feb. 17,1951. 6 Am3

27156 SINGH, R., and MALIK, H. C. Early kharif fodder crops in irrigated areas of the Punjab. *Indian Farming* 11:113-115. Mar.1950. 22 In283

27157 STEPPLER, H. A. Pasture studies. XXXI. Lignification studies with various grass species. *Sci. Agr.* 31:1-14. Ref. Jan.1951. 7 Sci2

27158 STODDART, L. A. Range management. In *Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p.113-135. Washington, 1950. 99.04 So1*

27159 TATON, A. Quelques considerations sur les paturages du Ruanda-Urundi. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):502. 1950. 388 C765

27160 THOMAS, B., and ROGERSON, A. A study of some herb-containing swards. *Scot. Agr.* 30:156-160. Ref. Winter 1950/51. 10 Sco82So

27161 THOMSON, G. H. The living is easy—on an all-grass farm. *Natl. Live Stock Prod.* 29(5):15. Feb. 1951. 280.38 N21

27162 THOMPSON, W. R. Too cold to work? Plan your pastures. *Prog. Farmer, Miss.-Ark.-La. Ed.* 66(2):26. Feb.1951. 6 So81

27163 TOLNER, J. The culture of lupine. II. (In Dutch.) *Plattelands-Post* 7(2):6. Jan.13,1951. 12 P69

27164 TORRES JUAN, J. Montes y ganados. *Baleares Isl. Diputación Prov. B. de Agr.* 73:6. Oct.1950. 15 B19

Forest grazing.

27165 TREW, E. M., JR. Grasses that perform or promise well in permanent valley pastures. *Tex. Farming & Citricult.* 27(7):6. Jan.1951. 8Q T31

27166 TURVEY, K. Pasture improvement in a 15-inch rainfall. *So. Austral. Dept. Agr. J.* 54:87-89. Sept. 1950. 23 So84

27167 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Seed for better forage crops, by W. M. Myers, C. S. Garrison and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11

27168 UNRAU, J. Factors affecting seed setting in alfalfa. *Alberta. U. Dept. Plant Sci. Seasonal Notes* 36: 8-9. Jan.6,1951. 64.9 AL12

27169 UPCHURCH, M. L. Research in some of the economic problems of range land use. *West. Farm Econ. Assoc. Proc.* 23:126-132. 1950. 280.9 W527P

27170 VEATCH, C. Forage crop trials in West Virginia. *W. Va. Agr. Expt. Sta. B.* 343,19 p. Nov.1950. 100 W52

27171 VYCHIKOV, A. I. Harvesting of forage root crops and silage crops. (In Russian.) *Sotsialist. Zhivotnovod.* 12(8):32-34. Aug.1950. 49 So71

27172 WALKER, A. H. Range judging comes to Texas. *Sheep & Goat Raiser* 31(4):11. Jan.1951. 45.8 Sh3

Training 4-H Club and FFA boys.

27173 WALPOLE, L. J. New Mexico rancher develops model western cattle spread. *West. Farm Life* 53(3): 49-51. Feb.1,1951. 6 R153

27174 WATSON, E. R. Vetch cultivation in the Wheat-belt. *West. Austral. Dept. Agr. J. (ser.2)* 27:259-263. Sept.1950. 23 W52J

27175 WEINMANN, H. Productivity and nutritive value of star grass pastures. *Rhodesia Agr. J.* 47:435-454. Ref. Sept./Oct.1950. 24 R34

27176 WERTMAN, F. L., and JUSTICE, O. L. Variety determinations of Sudan grass seed. *Assoc. Off. Seed Anal. Proc.* 40:49-55. 1950. 61.9 As7

27177 WINTERS, S. R. We want to junk our plow. *Hoard's Dairyman* 96:127. Feb.10,1951. 44.8 H65

Pasture management.

27178 ZÜRN, F. Versuche über grünlandansaat nach der getreideernte. *Bodenkultur* 4:309-316. 1950. 19 B635

### Oil Crops

27179 BAGGE, H. Variety trials with oil plants, 1942-1949. (In Danish.) *Tidsskr. f. Planteavl* 54:107-114. 1950. 11 T439

27180 CARVER, W. A., HULL, F. H., and CLARK, F. A. The early runner peanut variety. *Peanut J. & Nut World* 30(4):27-28. Feb.1951. 77.8 P313

27181 CROSBY, J. An Arizonan's experience with peanuts. *Calif. Farmer, North. Ed.* 194:18. Jan.13,1951. 6 C126

27182 FOSTER, R. L. Sprayed frost hurries [soybean] harvest. *Capper's Farmer* 62(2):15,40. Feb.1951. 6 M693

Growth substances.

27183 MAKEVNIN, A. Ia. On late-autumn plantings of sunflower with freshly-harvested seeds. (In Russian.) *Sovet. Agron.* 8(10):73-82. Ref. Oct.1950. 20 So84

27184 MARTIN, J. A. Report to oil mills on present status of sesame research. *Cotton Gin & Oil Mill Press* 52(2):6,8-9,42. Jan.20,1951. 304.8 C822

Breeding.

27185 MORSE, W. J. What's in a name? Soybean Digest 11(3):22-24. Jan.1951. 60.38 So9

Soybean varieties.

27186 TILQUIN, M. Methodologie de l'amélioration de l'arachide a Yangambi, biologie florale croisements au Congo Belge. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):485. 1950. 388 C765

27187 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Growing sunflowers, by L. M. Pultz. *Beltsville?* 1950. 7 p. 1.965 T2G912

### Sugar Crops

27188 AGARWAL, D. C. Sugarcane varietal position in the Eastern tract of the Uttar Pradesh. *Agr. & Anim. Husb.* 1(3):69-73. Apr./Aug.1950. 22 Ag86

27189 BANERJI, K. C. Some indigenous canes of Northern India now extinct. *Agr. & Anim. Husb.* 1(3):37-42. Apr./Aug.1950. 22 Ag86

27190 BÖHME, C. Rübenbau in Dänemark. *Zucker* 3:505-506. Dec.1,1950. 65.8 Z82

27191 BYRNE, D. Beet growing in the Carlow area: some aspects. *Beet Grower* 4:233-234. Jan.1951. 66.8 B392

Sugar beets.

27192 CHIANG, H. C. A report on the cultivating methods related to yields of spring-ratooned sugar cane crops. (In Chinese.) *J. Sugarcane Res.* 4:101-106. Apr. 1950. 65.8 J822

English summary.

27193 DUDOK VAN HEEL, J. P. Pouvons-nous encore esperer une amélioration de la betterave sucrière par la sélection génétique? (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):487. 1950. 388 C765

27194 DUNCAN, R. B., and DIETER, D. Sugar beet production in San Joaquin and Stanislaus Counties. *Spreckels Sugar Beet B.* 15:5-8. Jan./Feb.1951. 66.8 Sp7

California.

27195 GOMES, P. Make sugar in the field. (In Portuguese.) *Bras. Açucareiro* 36:229-231. Aug.1950. 65.8 B73

Culture.

27196 GRASSL, C. O. Importation of sugarcane breeding material into the United States. *Sugar B.* 29: 101-107. Jan.1,1951. 65.9 Am32



27197 GÜNTHER. Erfahrungen über die keimkraft von rübensamen. Saatgut-Wirt. 2:221-223. Oct. 1950. 61.8 Sa1

27198 KLOEPPEL, R. Zur frage der einkelmsaat. Zucker 3:507-508. Dec. 1, 1950. 65.8 Z82

27199 LEE, S., and LIN, K. S. A preliminary study on the growth rate of the first-year seedling of sugarcane. (In Chinese.) J. Sugarcane Res. 4:93-100. Apr. 1950. 65.8 J822

English summary.

27200 LEE, T. T. The new sugar cane variety P. T. 43-52. (In Chinese.) J. Sugarcane Res. 4:107-133. May 1950. 65.8 J822

English summary.

27201 LOCSN, C. L. Water, soil and sugarcane; some considerations on the effect of the 1949 dry season on cane growth. Sugar News 26:571-574. Oct. 1950. 65.8 Su36

27202 MCARTHUR, W. C., BONNEN, C. A., and MAGEE, A. C. Production practices for sugar beets on the High Plains of Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1311, 8 p. Jan. 12, 1951. 100 T31P

27203 MADER, W., and ADAM, J. Einkornrübensaat oder nicht? Versuche bei zuckerrüben 1950. Pflug 3:247-249. Dec. 1950. 10 P48

Austria.

27204 PROCHÁZKA, F. The experiments with cultivation of beet seed in culture wintering in free ground. (In Czech.) Českoslov. Akad. Zeměděl. Věst. 24:538-540. Dec. 1950. 19.5 C332

27205 REINHARDT, W. Das "wellensaat" - verfahren im rübenbau. Deut. Landwirt. Presse 73(25):3-4. Dec. 2, 1950. 18 D482

27206 ROUILLARD, G. Les progrès accomplis dans le domaine de l'agronomie sucrière a Maurice. Rev. Agr. de l'île Maurice 29:209-218. Ref. Sept./Oct. 1950. 24 M744

27207 ROKAS, M. L., and others. The Reynoso (Java) system of sugar cane culture and soil observation. Sugar News 26:561-568. Oct. 1950. 65.8 Su36

S. B. Oliveros, A. Q. Briones, and P. C. Enrile, joint authors.

27208 TSENG, P. M., and CHENG, T. C. Report on the newly released varieties of sugarcane. (In Chinese.) J. Sugarcane Res. 4:85-92. Apr. 1950. 65.8 J822

English summary.

27209 WICKENDEN, H. Sugar beet—a crop for the smallholder? Smallholder 84(2121):23; (2123):23. Jan. 12, 26, 1951. 10 Sm1

Varieties and culture.

27210 ZOBELL, H. D. Timeliness in agriculture. Sugar Beet 9(6):6-7. Dec. 1950. 66.8 Su34B

Sugar beet culture.

#### Tobacco

27211 BENNETT, R. R., and GARRISS, H. R. What rotations should tobacco growers practice? Prog. Farmer, Carolinas-Va. Ed. 66(2):16, 116. Feb. 1951. 6 P945

27212 BRUNELLI, A. Como se reconoce la madurez del tabaco. Chacra 21(242):62-63. Jan. 1951. 9 C34

27213 CUTHBERTSON, H. Can home-grown tobacco succeed? Nurseryman & Seedsman 111:1758-1759. Dec. 14, 1950. 80 N933

England.

27214 DUCHARTRE, P. L. Le Musée du Tabac à Bergerac. Rev. des Tabacs 25(192):25-28. Dec. 1950. 69.8 R325

27215 HUNT, R. New varieties stop diseases. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 66(2):122-123. Feb. 1951. 6 P945K

Tobacco varieties.

27216 HUTER. Quelques aspects de la production du White Burley en Suisse. Rev. Internatl. des Tabacs 25:226-228. Dec. 1950. 69.8 R324

27217 LOLLICHON, M. Projet d'organisation de la culture des tabacs bruns en Indochine. (Sum.) Agron. Trop. 5:647. Nov./Dec. 1950. 26 Ag86

27218 MARTIN, J. A. Aromatic tobacco, healthy new immigrant. Crops & Soils 3(5):12-15. Feb. 1951. 6 W55

27219 STANICHEVSKI, S. La culture du tabac en Union Soviétique. Rev. Internatl. des Tabacs 25:232-233. Dec. 1950. 69.8 R324

27220 VESSEREAU, and PINAUDIER. Selection industrielle de la graine de tabac. Rev. Internatl. des Tabacs 25:229-231. Dec. 1950. 69.8 R324

#### HORTICULTURAL CROPS

Includes articles on general horticulture, and on varieties, breeding, cultural practices, and yield.

#### General

27221 AGENDA des horticulteurs, 57, 1951. Lyon, 1951. 288 p. 80 Ag3

27222 ALBERTA HORTICULTURAL ADVISORY COMMITTEE. Alberta horticultural guide, 1950-51. Edmonton, 1950. 22 p. 82 AL1

27223 AMERICAN GARDEN GUILD. The 1951 home garden guide. New York, 1951. 104 p. 81 Am314

27224 BOULAY, H. La Station de Recherches Horticoles de l'Etat, à Alnarp (Suède). Rev. Hort. 122:258-259. Nov. 1950. 80 R32

27225 CAPULER, B. Problems of the winter garden in 1950. (In Hebrew.) Hassadeh 30:679-682. Sept. 1950. 26 H27

27226 CLARKE, R. A. Do your cloches work 365 days a year? Smallholder 84(2122):9. Jan. 19, 1951. 10 Sm1

27227 CLEGG, H. H. Can colleges train nurserymen? Amer. Nurseryman 93(2):18, 62-63. Jan. 15, 1951. 80 Am371

27228 COUTINHO, M. Notes on the handling and preservation of gardens. (In Portuguese.) Seleg. Agr. 5(56):51-53. (Cont.) Dec. 1950. 9.2 Se4

This installment deals with plant propagation.

27229 GARDEN CLUB OF VIRGINIA. Homes and gardens in old Virginia, edited by Frances Archer Christian and Susanne Williams Massie. Revised by Virginia Christian Claiborne, Ella Williams Smith and Caroline Pickrell Strudwick. Richmond, Garrett and Massie, 1950. 544 p. 125 G16

27230 HAUSNER, F. Der spalterbaumschnitt. Berufsgärtner 3(11):4-5. Nov. 1950. 80 B463

27231 HAYES, W. B. The horticultural graduate and the future development of horticulture in India. Allahabad Farmer 24:207-213. Nov. 1950. 22 AL5

27232 HIRATSUKA, JAPAN. GOVERNMENT HORTICULTURAL EXPERIMENT STATION. List of the contributions from horticultural experiment station. Hiratsuka, Japan, 1950. 15 p. 241 H61

27233 LELIEVRE, E. Projet de jardin mixte pour un pêcheur. Rustica 24:28. Jan. 14, 1951. 14 R92

27234 MERFIELD, A. G. Cloche culture in N. Z.; district problems discussed in detail. Orchardist New Zeal. 23(10):13-14, 17. Nov. 6, 1950. 80 Or19

27235 MITCHELL, P. Horticultural districts of Queensland. 5. North Coast. Queensland Agr. J. 71:206-216. Oct. 1, 1950. 23 Q33

27236 NILSSON, G. Plantskoleskötsel [Nursery management]. Stockholm? LT:s Korrespondensskola, 1950. 137 p. 90.11 N59

27237 NOHE, E. Auswinterung und ihre gründe. Deut. Landwirt. Presse 73(23):3. (Concl.) Nov. 4, 1950. 18 D482

Plants.

27238 PERRONNE, P. Le jardin familial agricole. Rev. Agr. de l'Afrique du Nord 48:871-873. Nov. 24, 1950. 80 R326

27239 PRIMOST, E. Ein besuch an der versuchsanstalt für gartenbau und pflanzenzüchtung "John Innes Horticultural Institution" in England. Gartenbauwirtschaft [Wien] 1950:248. Nov. 10, 1950. 80 G1936

27240 RIO GRANDE VALLEY HORTICULTURAL INSTITUTE. Proceedings of the fifth annual, Weslaco, Texas, January 10, 1951. Weslaco, 1951. 120 p. 81 L95

27241 SAUNDER, D. H. Some notes on the properties of vermiculite in relation to its use in agriculture and horticulture. Rhodesia Agr. J. 47:409-415. Sept./Oct. 1950. 24 R34

27242 SOUTHERN CALIFORNIA FLORAL ASSOCIATION. Florist directory. Los Angeles, 1950. 144 p. 225 So825

27243 TOMASHOV, V. Plant protection against cold weather. (In Hebrew.) Hassadeh 31:79-80. Nov./Dec. 1950. 26 H27

27244 VOYAGE d'études au Maroc. Rev. Hort. 122:239-244. (To be cont.) Nov. 1950. 80 R32



## Fruits--General

- 27245 ALGERIA. INSPECTION GÉNÉRALE ET DIRECTION DE L'AGRICULTURE. Liste des meilleures variétés fruitières commerciales. Algeria. Insp. Gén. et Dir. de l'Agr. Doc. et Renseign. Agr. B. 156,4 p. 1950. 24 AL34
- 27246 AUBERT, P. Arbres tiges ou demi-tiges? Arbres et Fruits 50:27-29. (To be cont.) Sept./Oct.1950. 80 Ar1
- 27247 BATJER, L. P. Have you tried chemical thinning? Amer. Fruit Grower 71(2):25,44-47. Feb.1951. 80 G85
- 27248 BINDER. Zu fortschritt und wirtschaftlichkeit im obstbau. Obstbau 70:3-4. Jan.1,1951. 80 Ob73 Germany.
- 27249 BRECEY, J. A quelles conditions un fruitier doit-il répondre? Monit. Agr. 3(140):7. Dec.17,1950. 14 M744
- 27250 BREVIGLIERI, N. Notes on a study tour in France. (In Italian.) Riv. della Ortoflorofrutticoltura. Ital. 34:146-166. Sept./Oct.1950. 86 R22 Includes fruit growing.
- 27251 BROOKS, R. M., and OLMO, H. P. 1950's new fruit varieties. Amer. Fruit Grower 71:32,65-69. Jan. 1951. 80 G85
- 27252 DALRYMPLE, D. Saving hours in the fruit orchard. Amer. Agr. 148:29,36,49. Jan.20,1951. 6 Am3
- 27253 DERMINE, E. L'arboriculture fruitière et l'amateur. B. Hort. (n.s.)5:357-360. Dec.1,1950. 80 B873
- 27254 DUKHANIN, K. S. On transplanting adult fruit trees and shrubs. (In Russian.) Sad i Ogorod 1950(10): 28-31. Oct.1950. 80 Sa13
- 27255 EGOROV, V. I. To harvest the fruit and grape crops without losses. (In Russian.) Sad i Ogorod 1950 (9):3-5. Sept.1950. 80 Sa13
- 27256 ENGSTEDT, G. State farms for fruit growing. (In Swedish.) Sveriges Pomol. För. Fruktodlaren 1950: 180-181. 86 Sv2F
- 27257 FARRAR, L. D. The new war economy, what shortages will develop--and when? Amer. Fruit Grower 71(2):20,59. Feb.1951. 80 G85
- 27258 GRUNER, O. C. Fruit growing without tears. Health & Soil 1950:37-38. Winter 1950. 56.8 H34
- 27259 HENSCHKE, M. Die Veränderungen im obstbaumbestand in Hessen. Gartenjahr 6:4. Jan.1951. 80 G1932
- 27260 HIRT, H. Kein qualitätsobst ohne baumpflege! Bauern Ztg. 4(4):5. Jan.26,1951. 18 B324
- 27261 KOBEL, F. Der schweizer obstbau; lehrbuch für obstbauern, baumwärter und landwirtschaftsschüler. Ed. 4. Bern, Francke, 1950. 124 p. 93.26 K79
- 27262 KUDRIASHEV, S. N. Plodovye Shakhristabza [Fruits of Shakhristab District]. Tashkent, Akademiia Nauk USSR, 1950. 187 p. 93.28 K95
- 27263 LEGHIS, L. M. Les difficultés d'exploitation en arboriculture. Paysan Franç. 26(397):12. Jan.1951. 14 P29 Fruit.
- 27264 LOUVAIN, P. Comment prévenir l'alternance des récoltes. Réveil Agr. 59:369. Dec.15,1950. 14 R322 Fruit.
- 27265 LOUVAIN, P. Considérations sur l'alternance des récoltes. Réveil Agr. 59:353. Dec.1,1950. 14 R322 Fruit.
- 27266 LOUVAIN, P. Les plaies de la taille. Réveil Agr. 60(2594):4-5. Jan.1,1951. 14 R322 Fruit.
- 27267 MAURER, K. J. Zur frage der baumschulherkunft der obstgehölze. Obstbau 70:4-5. Jan.1,1951. 80 Ob73 Germany.
- 27268 MOSTI, A. Successes and failures in the planting of fruit trees. (In Italian.) Spezia Agr. 6:2. Jan.1, 1951. 16 Sp3
- 27269 NORBURY, C. P. Standard requirements and suitable varieties. Worcestershire Agr. Chron. 19:17,19, 21,23,25,27,29. Nov.1950/Jan.1951. 10 W892 Fruit.
- 27270 OLDHAM, C. H. Notes on the cultivation of soft fruits. Worcestershire Agr. Chron. 19:39,41,43,45, 47,49. Nov.1950/Jan.1951. 10 W892
- 27271 PEETERS, F. L'Exposition Nationale de Fruits Fructibel à Audenarde. Fruit Belge 18:161-163. Nov.1950. 80 F9493
- 27272 PIQUER, G. Le climat et les arbres fruitiers. Fruit Belge 18:189-192. (Concl.) Ref. Dec.1950. 80 F9493
- 27273 RASKIN, L. M. Orchard cultivation in Irkutsk Region. (In Russian.) Sad i Ogorod 1950(10):33-35. Oct.1950. 80 Sa13
- 27274 REBOUR, H. L'arboriculture fruitière en Afrique du Nord. Jard. de France (ser.7):4:206-216. Sept./Oct.1950. 86 So13
- 27275 RENNER, F. Das umpfropfen der obstbäume zur qualitätsverbesserung. Landwirtschaft 1950:357-358. Dec.1950. 19 L235
- 27276 REYES, J. Making trees productive. Plowman 6(2):13. Nov.1950. 276.8 P72 Fruit culture.
- 27277 ROESSL D., H. Ueber den obstbau in Peru. Deut. Baumsch. 2:260-264. Nov.1,1950. 80 D486
- 27278 ROSENT, I. Para evitar la caída de la fruta. Cult. Mod. 33:364. Oct.1950. 15 C89
- 27279 ROTHANSL, H. Obstbau und obstverwertung in "Schwedisch Kalifornien." Bodenkultur 4:368-376. 1950. 19 B635
- 27280 SCHILLING, C. Ratschläge für die ernte des kernobstes. Gartenjahr 5:122. Aug.1950. 80 G1932
- 27281 SCHMIDT, H. Hast du keinen raum, pflanz' auch keinen baum! Gartenjahr 5:24-25. Feb.1950. 80 G1932
- 27282 SCHMIDT, H. Stammbildnersorten und deren verwendung. Gartenjahr 5:182. Dec.1950. 80 G1932
- 27283 SCHMIDT, M. Die methoden Mitschurins in der obstzüchtung. Deut. Baumsch. 2:278-282,305-306. (Concl.) Nov.1-Dec.1,1950. 80 D486
- 27284 SCHNELLE, F. Feststellung der frostlagen durch kleinklimatische geländeaussnahme. Ein wichtiges hilfsmittel zur sicherung des obstbaues. Gartenjahr 5: 167-169. Nov.1950. 80 G1932
- 27285 SNYDER, J. C., and BARTRAM, R. D. Grafting fruit trees. Wash. State Col. Ext. B. 442,34 p. Dec. 1950. 275.29 W27P
- 27286 SONWALKER, M. S. Climate as factor in fruit production. Nagpur Agr. Col. Mag. 25:18-22. June/Sept. 1950. 107.5 N132
- 27287 SWITZERLAND. STATIONS FÉDÉRALES D'ESSAIS VITICOLES, ARBORICOLES ET DE CHIMIE AGRICOLE, A LAUSANNE ET A PULLY. Rapport d'activité 1949. Switz. Sta. Fed. d'Essais Vitic. Arbor. et de Chim. Agr. à Lausanne et à Pully. P. 395,861 p. Dec. 1950. 105.5 Sw63
- 27288 TREBBI, T. The pruning of fruit trees. (In Italian.) Agr. Bresciana 111(51):2. Dec.20,1950. 16 Ag89
- 27289 TRIOLA, P. DE LA. Plantación de frutales. Cult. Mod. 33:407-408. Nov.1950. 15 C89
- 27290 TUKEY, H. B. Handling winter injured fruit trees. Mich. Farmer 215:4,29. Jan.6,1951. 6 M58
- 27291 VISSER, D. F. Bluffs [Experimental] Fruit Farm [Iowa] offers hope for useless acres. Iowa Agr. 49(6):8-9,14. Jan.1951. 6 Io9 Fruit culture.
- 27292 WALKER, A. Principaux arbres fruitiers introduits au Gabon. Cour. Agr. 15(25):2,4. Dec.6,1950. 24 C83
- 27293 WEIR, T. S. Two new fruits from Minnesota Fruit Breeding Farm. Minn. Hort. 79:4-5. Jan.1951. 81 M66
- 27294 WELS. Massnahmen zur auflöckerung zu dicht gepflanzter obstanlagen. Gartenjahr 5:180. Dec. 1950. 80 G1932
- 27295 WENCK, F. Bessere kronenpflege unserer obstbäume. Württemb. Wchnbl. f. Landwirt. 117:1110-1111. Dec.9,1950. 18 W96
- 27296 WINKELMANN. Noch mehr umpfropfen! Württemb. Wchnbl. f. Landwirt. 118:24. Jan.13,1951. 18 W96

## Fruits--Citrus and Subtropical

- 27297 BACHMANN, M. Bananen-gewächse. Kosmos 46:539-542. Dec.1950. 474 K842
- 27298 BITTERS, W. P., and BATCHELOR, L. D. Rootstocks affect orange sizes. Citrus Leaves 31:10-11. Jan.1951. 80 C492
- 27299 CAMERON, A. E. Small sizes; effect of lack of soil moisture on Valencia sizing: increase from use of 2,4-D sprays. Citrus News 26:163. Nov.1950. 80 C494



- 27300 CHAPOT, H. Un curieux cédrat marocain. *Rev. Internatl. de Bot. Appl. d'Agr. Trop.* 30:506-514. Sept./Oct. 1950. 26 R323
- 27301 FRIEND, W. H. The Joppa orange. *Rio Grande Val. Hort. Inst. Proc.* 5:63. 1951. 81 L95
- 27302 GIORDANO, B. L'agrumicoltura calabraise. *Fruits d'Outre Mer* 5:405-411. Dec. 1950. 80 F9492
- 27303 GOMES, P. Olive trees of Brazil. (In Portuguese.) *Chacaras e Quintais* 82:683-684. Dec. 15, 1950. 9.2 C34  
Culture.  
Also in *Seleç. Agr.* 5(56):13-14. Dec. 1950. 9.2 Se4
- 27304 GOOR, A. On the olive tree. (In Hebrew.) *Hassadeh* 31:94-97. (To be cont.) Nov./Dec. 1950. 26 H27
- 27305 GUKAS'IAN, A. S. Methods of covering and dates for uncovering figs in the spring. (In Russian.) *Sad i Ogorod* 1950(10):40-41. Oct. 1950. 80 Sa13
- 27306 HEIMAN-HERSHBERG, L. New trends in American citriculture. (In Hebrew.) *Hassadeh* 30:697-699. Sept. 1950. 26 H27
- 27307 JOURDAIN, E. Les agrumes dans les possessions britanniques de la Caraïbe. *Fruits d'Outre Mer* 5:365-374. Nov. 1950. 80 F9492
- 27308 MILLI, H. E. Bananas need right setting; need lots of water and sun for good results. *Fla. Grower* 59(2):16. Feb. 1951. 80 F6622
- 27309 NANKIVELL, I. Rootstock trials; sweet orange maintains advantage over Seville and citronelle on Irymple Grove. (Sum.) *Citrus News* 26:167. Nov. 1950. 80 C494
- 27310 NORO, K. Kankitsu saibai shinpen [New edition of citrus fruits cultivation]. Tokyo, Yokendo, 1950. 291 p. 93.33 N78
- 27311 OLIVEIRA, J. V. DE. Let us plant olives. (In Portuguese.) *Lav. Arroz.* 4(46):19. Oct. 1950. 59.8 L39
- Fruits--Deciduous
- 27312 BALDINI, E. Contribution to a study of cherry pollination. (In Italian.) *Riv. della Ortoflorofrutticoltura.* Ital. 34:200-208. Ref. Nov./Dec. 1950. 86 R22  
English summary.
- 27313 BEHNE, W. Pflanzzeit und schnitt des pfirsichbaums. *Gartenjahr* 5:115-116. Aug. 1950. 80 G1932
- 27314 BREVIGLIERI, N. The J. H. Hale peach. (In Italian.) *Italia Agr.* 87:670-681. Ref. Nov. 1950. 16 It1
- 27315 BROOKS, R. M. Planting distances; use of interplants, and effects of shading in sweet cherry orchards in California. *Blue Anchor* 28:17,41-43. Feb. 1951. 286.83 B62
- 27316 BRUMBAUGH, R. Apples of long ago. *Pa. Farmer* 144:76-77. Jan. 27, 1951. 6 P383
- 27317 CAPUCCI, C. Selection of the "C. Capucci" peach. (In Italian.) *Riv. della Ortoflorofrutticoltura.* Ital. 34:167-176. Sept./Oct. 1950. 86 R22  
English summary.
- 27318 CAUWENBERGH, E. VAN. Étude du système racinaire de quelques sujets porte-greffes de pruniers, identifiés à la Station Expérimentale d'East-Malling. *Fruit Belge* 18:177-184. (To be cont.) Dec. 1950. 80 F9493
- 27319 CHANDLER, W. H. Deciduous orchards. Ed. 2, rev. Philadelphia, Lea & Febiger, 1951. 436 p. Ref. 93 C362
- 27320 DEBOR, H. W. Etwas vom schweizerischen obstbau. *Gartenjahr* 5:127. Aug. 1950. 80 G1932
- 27321 DURST, C. E. High points in apple culture. *Amer. Poultry J.* 81(12):56. Dec. 1950. 47.8 Am32
- 27322 EVANS, W. D. Growing your own fruit trees. *Alberta. U. Dept. Plant Sci. Seasonal Notes* 36:7-8. Jan. 6, 1951. 64.9 AL12
- 27323 HILTON, R. J. How about tree fruits for Alberta? *Alberta. U. Dept. Plant Sci. Seasonal Notes* 36:5-6. Jan. 6, 1951. 64.9 AL12
- 27324 KERN, W. Erleichterte pflanzung von obstbäumen durch pflanzlochsprengung. *Gartenjahr* 5:164-165. Nov. 1950. 80 G1932
- 27325 KLANG, C. A. Fruit culture according to the Lepage method. (In Swedish.) *Sveriges Pomol. För. Fruktdlaren* 21:213-216. (To be cont.) 1950. 86 Sv2F
- 27326 LAMB, R. C. Blossom bud hardiness in peaches. *Rur. New-Yorker* 101(5731):3,5. Jan. 6, 1951. 6 R88
- 27327 LAVEZZINI, A. Fruit trees from the orchard to the table. II-III. (In Italian.) *Avvenire Agr.* 58:265-273,291-300. Nov.-Dec. 1950. 16 Av9
- 27328 LOMBARTS, J. Die rotblättrigen myrobalanen, *Prunus cerasifera*. *Deut. Baumsch.* 2:295-300. Dec. 1, 1950. 80 D486
- 27329 LUSIS, L. E. Steinmerkmale einiger weiterer pflaumensorten. *Gartenjahr* 5:171. Nov. 1950. 80 G1932
- 27330 MAKSIMOVA, M. P. Local valuable fruit varieties in Azerbaidzhan. (In Russian.) *Sad i Ogorod* 1950(10):31-33. Oct. 1950. 80 Sa13  
Apples and pears chiefly.
- 27331 MAURER, K. J. Frostplatten und frosttotal-schaden. *Gartenjahr* 5:19-20. Feb. 1950. 80 G1932  
Injuries to fruit trees.
- 27332 MEISSNER, K. Pflanzvorbereitungen und pflanzmethoden im obstbau. *Gartenjahr* 5:163-164. Nov. 1950. 80 G1932
- 27333 MOMIYAMA, Y. The date of introduction to Japan of *Malus pumila* var. *dulcissima*. (In Japanese.) *J. Jap. Bot.* 25:152. July 1950. 450 J8223
- 27334 OLIVEIRA E CASTRO, F. Establishment of an apple orchard and cultural technique. (In Portuguese.) *Gaz. do Agr.* 2:206-212. (To be cont.) Sept. 1950. 24 G25
- 27335 PASCUAL DE QUINTO, F. Indicaciones para hacer con acierto una plantación de melocotoneros. *Agricultura [Madrid]* 19:519-525. Nov. 1950. 15 Ag84
- 27336 ROSAND, J. Caractérisation des porte-greffes du pêcher. *Réveil Agr.* 60(2594):5. Jan. 1, 1951. 14 R322
- 27337 SOLOV'EVA, M. A. Storage of fruit crop [wild apple and pear] seeds. (In Russian.) *Sad i Ogorod* 1950(10):24-28. Oct. 1950. 80 Sa13
- 27338 SNYDER, J. C. Here's the way to plant peach trees for profit. *Better Fruit* 45(8):13-14. Feb. 1951. 80 B46
- 27339 STARK, A. Intermountain orchard money-making ideas. *Better Fruit* 45(8):16-18. Feb. 1951. 80 B46  
Utah.
- 27340 ULRICH, R. Temperature et maturation des fruits; le cas des pommes Calville "blanc." (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):555. 1950. 388 C765
- 27341 VAN CLUTE, J. Have fruit all year. *Org. Farmer* 2, i.e. 3:39-43. Jan. 1951. 57.8 Or3
- 27342 WEURMAN, C. Difficultés, possibilités et méthodes nouvelles de détermination de la maturité de cueillette des poires. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):555. 1950. 388 C765
- 27343 ZELL, H. Buschobstpflanzung. *Gartenjahr* 5:165-166. Nov. 1950. 80 G1932
- Fruits--Small
- 27344 AGENDA des viticulteurs, 57, 1951. Lyon, 1951. 160 p. 390.8 Ag3
- 27345 ALDEBERT, P. Le VI<sup>e</sup> Congrès International de la Vigne et du Vin. *Rev. Agr. de l'Afrique du Nord* 48:821-824,892-894. (Cont.) Nov. 10, Dec. 1, 1950. 80 R326
- 27346 ANGELO, R. Observations on softwood grafting of grapes. (In Italian.) *Romagna Agr. e Zootec.* 35(7):3-4. Apr. 1950. 16 R66
- 27347 BASTELEUS, R. Il est possible d'augmenter la production des serres à vignes d'amateurs. *B. Hort.* (n.s.) 5:361-362. Dec. 1, 1950. 80 B873
- 27348 BAQUEZ, Z. L'Armagnac. *Terre d'Oc* 32:528-532. (Cont.) Dec. 1950. 14 Ar5  
This installment deals with grape culture.
- 27349 BINSTADT, D. Das ausschulen und sortieren der pfropfreben. *Landbote* 4(48):5. Dec. 2, 1950. 18 L2336
- 27350 BOSAK, D. E. Propagation of gooseberries and currants. (In Russian.) *Sad i Ogorod* 1950(9):31-34. Sept. 1950. 80 Sa13
- 27351 BRUNNER, E. Der neue veredelungsbeginn rückt heran! *Bauern Ztg.* 4(4):7-8. Jan. 26, 1951. 18 B324  
Grape culture.
- 27352 BURGERS, G. J. The culture of black currants (In Dutch.) *Boer en Tuinder* 5(207):6. (Concl.) Jan. 6, 1951. 12 B632
- 27353 BURTNER, J. C. Easy fruit to raise—raspberries. *Farm J.* 75(2):76-79. Feb. 1951. 6 F2212
- 27354 CORNU, T. Méthode de Geisenheim de greffe de la vigne ou méthode des cartons du professeur Birk. *Prog. Agr. et Vitic.* 1951:40-42. Jan. 21/28, 1951. 14 P94



- 27355 DENMARK. STATENS FORSØGSMØHED I PLANTEKULTUR. Variety trials with raspberries, 1938-48. (In Danish.) Tidsskr. f. Planteavl 54:152-155. 1950. 11 T439
- 27356 DESFLASSIEUX, L. L'avenir des raisins de table; leurs traitements. Terre d'Oc 33:31-33. Jan.1951. 14 Ar5  
Includes discussion of varieties.
- 27357 DOBKIN, S. The cultivation of strawberries. (In Hebrew.) Hassadeh 31:75-76. Nov./Dec.1950. 26 H27
- 27359 DOEHLERT, C. A. Cranberry picking methods and cost per barrel. Cranberries 15(9):11-12. Jan.1951. 80 C852
- 27359 EMON, J. La résistance des porte-greffes à la sécheresse. Terre d'Oc 32:545-547. Dec.1950. 14 Ar5  
Grapes.
- 27360 GABRIEL, F. A B C du tailleur de vigne. Algeria. Insp. Gén. et Dir. de l'Agr. Doc. et Renseign. Agr. B. 154,42 p. 1950. 24 AL34
- 27361 GIL'DIEV, S. A. Grape culture on the saline soils of Uzbekistan. (In Russian.) Vinodel. i Vinograd. SSSR. 10(8):13-15. Aug.1950. 95.8 V77
- 27362 HAUSNER, F. Schnitt und pflege des weinstockes. Berufsgärtner 3(11):6-8. Nov.1950. 80 B463
- 27363 JUSCAFRESA, B. La viña y sus particularidades. Ceres [Valladolid] 15(173):16-17. Nov.1,1950. 15 C33  
Culture.
- 27364 KEMP, H. S. Versand von erdbeerpflanzen in USA. Deut. Baumsch. 2:264-267. Nov.1,1950. 80 D486
- 27365 LEYVRAZ, H. Plantation et taille de quelques cépages rouges européens. Rev. Romande d'Agr. de Viticult. et d'Arboricult. 6:84-87. Nov.1950. 17 J82A
- 27366 LOGINICHEVA, A. G. On selecting pollen parent varieties on berry plantations. (In Russian.) Sad i Ogorod 1950(9):29-30. Sept.1950. 80 Sa13
- 27367 MIKOLAICHUK, I. A. Is it possible to utilize the young bushes which have not borne any fruit for gooseberry propagation. (In Russian.) Sad i Ogorod 1950(10):39. Oct.1950. 80 Sa13
- 27368 MOSTI, A. Selection of grape stocks. (In Italian.) Spezia Agr. 5(11):3. Nov.1,1950. 16 Sp3
- 27369 MOSTI, A. Transplanting of grapes. (In Italian.) Spezia Agr. 5(12):2. Dec.1,1950. 16 Sp3
- 27370 NEGRUL', A. M., and RUBIN, S. M. Grape breeding in U.S.S.R. after I. V. Michurin's death. (In Russian.) Selekt. i Semen. 17(9):38-41. Sept.1950. 61.9 Se5
- 27371 OLDHAM, C. H. Early strawberries under cloches. Gt. Brit. Min. Agr. Agriculture 57:429-432. Dec.1950. 10 G79J
- 27372 PÉREZ-SALAS, J., and ESPINOSA, L. DE. Divulgación sobre portainjertos. Semana Vitiviníca. 5 (227):2-3;(229):2-3. Nov.4-18,1950. 95.8 Se5  
Grapes.
- 27373 PIROVANO, A., and COSMO, I. Pirovano hybrids in the Isle of Rhodes. (In Italian.) Ann. della Sper. Agr. (n.s.):4:975-1005. 1950. 16 An76  
English summary.  
Grapes.
- 27374 POTAPENKO, I. A., and ZAKHAROVA, E. I. Frost resistant grape varieties. (In Russian.) Sad i Ogorod 1950(10):49-54. Oct.1950. 80 Sa13
- 27375 POVOLOCHKO, P. A. In regard to raspberry propagation. (In Russian.) Sad i Ogorod 1950(10):42-43. Oct.1950. 80 Sa13
- 27376 ROHDE, E. S. Alpine strawberries. My Gard. 42(205):70-71. Jan.1951. 80 M995
- 27377 ROUART, S. Plants de remplacement. Rev. Agr. de l'Agricole du Nord 48:790. Oct.27,1950. 80 R326  
Grapes.
- 27378 SADYKOV, S. I. U. We shall develop selected grape planting stock. (In Russian.) Sad i Ogorod 1950 (10):55-56. Oct.1950. 80 Sa13
- 27379 SCHEU, G. Brauchen wir neue rebsorten? Weinbau 5:579-580. Dec.3,1950. 390.8 W432
- 27380 SEDLACEK, J. The practical experiences with cultivation of vine. (In Czech.) Českoslov. Akad. Zemédél. Věst. 24:540-546. Dec.1950. 19.5 C332
- 27381 SNYDER, J. C. Extra buds left on vigorous grape canes bring profit. Better Fruit 45(8):26. Feb. 1951. 80 B46
- 27382 TALLARICO, G. Let us appreciate the red grapes; the Rubino, table variety of the first class. (In Italian.) Terra e Sole 100:399-400. Dec.1950. 16 T273
- 27383 WICKENDEN, L. Old-fashioned strawberries. Land 9:497-500. Winter 1950/51. 279.8 L22
- 27384 ZELL, H. Neupflanzung von erdbeeren und sortenwahl. Gartenjahr 5:116-117. Aug.1950. 80 G1932

## Nuts

27385 GINET, J. La greffe du noyer en Amérique. France. Min. de l'Agr. B. Tech. d'Inform. 54:707-710. Nov.1950. 14 F844B  
Juglans regia.

27386 GLENN, E. M. Propagation of the walnut. Trees & New Earth 14:127-128. Winter 1950/51. 99.8 T714

27387 WHITEHEAD, E. L. 4-H pecan project. Okla. Agr. Col. Ext. C. 543,10 p. n.d. 275.29 Ok41C

## Shade Trees and Ornamental Plants

27388 AGLIANY, J. Les plantations d'alignement dans la région méditerranéenne. Rev. Hort. [Paris] 122-275-278. Dec.1950. 80 R32

27389 AGNEW, E. M. Recipe for growing better violets. African Violet Mag. 4(2):36-37. Dec.1950. 80 Af8

27390 ALLEN, R. C. Let's stick to the essentials; roses respond to natural methods. Org. Gard. 18:24-26. Jan.1951. 56.8 Cr3

27391 AMELINCKX, F. Use and culture of Ligustrum. (In Flemish.) Cult. en Handel 16:542-543. Sept. 1950. 80 C892

27392 AMERICAN DELPHINIUM SOCIETY. Delphinium, 1950. n.p.,1950. 106 p. 96.527 Am3D

27393 ARENDS, G. Die kultur der Primula obconica. Gart.-Z. illus. Flora 73:142-143. Dec.1950. 80 G1991

27394 ARTHUR, P. A new adventure with fluorescent lights, gardening in the basement. Horticulture 29:52. Feb.1951. 80 H787

27395 ASHBERRY, A. Trough gardens. My Gard. 42(205):51-56. Jan.1951. 80 M995

27396 ATKINS, P. Hardy lilies. Green Thumb [St. Petersburg] 1(2):15-16. Dec.1950. 80 G822

27397 BABB, G. F. Introducing the Penstemons. Natl. Hort. Mag. 30:1-7. Jan.1951. 80 N216

27398 BACCIALONE, J. Le rosier sur la Côte-d'Azur. Rev. Hort. [Paris] 122:284-291. Dec.1950. 80 R32

27399 BARNUM, J. K. How a new rose society was born. Amer. Rose Mag. 9(4):9-11. Jan./Feb.1951. 80 Am327A  
San Joaquin Valley Rose Society.

27400 BARR, C. A. An open heart for Penstemons. Natl. Hort. Mag. 30:29-31. Jan.1951. 80 N216

27401 BARTRUM, D. The wild lilacs. My Gard. 42 (205):57-58. Jan.1951. 80 M995

27402 BEALE, J. H. I like tulips. (Excerpts.) Tulip Tidings 3(3):4-5. Fourth Q.1950. 96.49 T822

27403 BECK, W. F. Understanding orchid culture. Amer. Orchid Soc. B. 20:83-85. Feb.1951. 80 Am329  
Reprinted from Indiana Orchid Society Bulletin.

27404 BELLINGRATH, W. D. The Bellingrath-Morse Foundation; the story of Bellingrath Gardens. Nashville, 1951. 45 p. 97 B41

27405 BENNETT, M. On taking Chrysanthemum cuttings. Smallholder 84(2121):15. Jan.12,1951. 10 Sm1

27406 BERTRAND, A. Cactées & plantes grasses. Jard. de France (ser.7):4:201-205. Sept./Oct.1950. 86 Sol3

27407 BLACKBURN, B. Plant for permanence—the winter heath [Erica carnea]. Flower Grower 38(2):8-9. Feb.1951. 80 M72

27408 BLAIR, C. H. Let's keep it a secret, but—roses are easy to grow. Amer. Rose Mag. 9(4):4-7. Jan./Feb.1951. 80 Am327A

27409 BLUHM, L. E. The tally sheet. Dahlia 19(2):30-34. Dec.1950. 80 D133

27410 BÖHM. Verlauf und ergebnisse der Dahlienschau pflanzung 1950. Gartenbauwirtschaft [Wien] 1950: 231-234. Oct.25,1950. 80 G1936

27411 BOWERS, W. E. Rhododendrons in the South-east. Amer. Rhododendron Soc. Q. B. 4:148-150. Oct.16,1950. 81 Am398



- 27412 BRACEY, S. J. Aspects of orchid culture. *Orchid Digest* 14:213-217. Nov./Dec.1950. 80 Or172
- 27413 BRADLEY, J. A. Rhododendrons in the cool greenhouse. *Amer. Rhododendron Soc. Q. B.* 4:122-123. July 15, 1950. 81 Am398
- 27414 BRIGGS, E. A. Thirty years of hybridizing. *New Eng. Gladiolus Soc. Gladiolus* 26:82-83. 1951. 96.43 N44
- 27415 BROWN, J. R. *Sedum multiceps* Coss. & Dur. *Cactus & Succul. J.* 22:168. Nov./Dec.1950. 451 C11
- 27416 BUCH, P. O. Hardy Eurasian Gladiolus. *New Eng. Gladiolus Soc. Gladiolus* 26:88-90. 1951. 96.43 N44
- 27417 BUINING, A. F. H. *Strombocactus* and *Turbinicarpus*. (In Dutch.) *Succulenta* 1951(1):7-10. Jan./Feb. 1951. 450 Su12
- 27418 BURGLON, N. Sugar from Dahlias. *Crg. Farmer* 2,1.e.3:36-38. Jan.1951. 57.8 Or3
- 27419 CADWALLADER, G. R. Questions answered about our friends, the Epiphyllums. *Begonian* 18:10. Jan.1951. 96.511 B39
- 27420 CAREY, R. G. African violet handbook for judges and exhibitors. n.p., 1950. 19 p. 96.06 C18
- 27421 CARRA, P., and GUEIT, M. Les plantes de bordure. *Rev. Hort. de l'Algérie* 54:288-298, 326-336. Oct.-Nov.1950. 87 R32
- 27422 CASCIO, P. J. Illustrated talk on Ericaceous plants, to Connecticut Valley Garden Club. n.p., 1950. 6 p. 97.31 C26
- 27423 CLARK, C. E. My experience with sub-zero roses. *Amer. Rose Mag.* 9(4):17. Jan./Feb.1951. 80 Am327A  
Hardy varieties.
- 27424 CLARK, J. H. Ratings for Rhododendron varieties. *Amer. Rhododendron Soc. Q. B.* 4:152-158. Oct.16, 1950. 81 Am398
- 27425 CLEMENTS, J. The art of flower arrangement—the Japanese style. *My Gard.* 42(205):79-82. Jan. 1951. 80 M995
- 27426 COHEN, N. Carolina orchid growers. *Amer. Orchid Soc. B.* 20:80-82. Feb.1951. 80 Am329
- 27427 CORLISS, P. G. Something has been added. *Dahlia* 19(2):18. Dec.1950. 80 D133  
Dahlia varieties.
- 27428 COWLEY, T. W. Report from Australia. *Dahlia* 19(2):12-13. Dec.1950. 80 D133
- 27429 CROOK, H. C. The *Symphyanthras*. *My Gard.* 42(205):61-63. Jan.1951. 80 M995
- 27430 DAHNKE, R. African violets—on display at the convention. *African Violet Mag.* 4(2):8-11, 49. Dec.1950. 80 A18
- 27431 DARFELDT, E. Ornamental bushes pretty in the fall. (In Swedish.) *Sveriges Pomol. För. Frukodlaren* 1950:191-193. 86 Sv2F
- 27432 DAVIS, MRS. D. F. Using small varieties of Gladiolus. *New Eng. Gladiolus Soc. Gladiolus* 26:18-22. 1951. 96.43 N44
- 27433 DAVIS, F. W. The *Gesneria* family. *Green Thumb [St. Petersburg]* 1(2):6-8, 36. Dec.1950. 80 G822
- 27434 DAVIS, R. S. Some orchids of Cyprus. *Amer. Orchid Soc. B.* 20:33-34. Jan.1951. 80 Am329
- 27435 DEBEVOISE, F. Late bloom in the rock garden. *Amer. Rock Gard. Soc. B.* 8:103-104. Nov./Dec.1950. 81 Am342
- 27436 DENTAL, J. B. Les jardins et la flore de la Côte-d'Azur. *Rev. Hort. [Paris]* 122:271-274. Dec.1950. 80 R32
- 27437 DICKEY, R. D. Cut flowers can live longer. *Fla. Grower* 59(2):17, 19. Feb.1951. 80 F6622
- 27438 DINSMORE, D. T. Christmas greens and decorations. *Forest Leaves* 35(5):8-9. Nov./Dec.1950. 99.8 F763
- 27439 DOLSON, L. L. Let's stick to our climate. *Amer. Rose Mag.* 9(4):8. Jan./Feb.1951. 80 Am327A  
On ornamentals native and hardy in particular regions.
- 27440 DOW, M. F. Delphiniums from January to December. *Amer. Delphinium Soc. Ybk. Delphinium* 1950:31-34. 96.527 Am3D
- 27441 DOWNER, H. E. The lilac, America's favorite flowering shrub. *Home Gard.* 16(5):48-54. Nov.1950. 80 H756
- 27442 DRAYSON, G. F. Dahlias in England - 1950. *Dahlia* 19(2):3-5, 40. Dec.1950. 80 D133
- 27443 DRUMMOND, W. C., and DRUMMOND, M. H. Grow Gardenia corsages. *Flower Grower* 37(12):22, 47. Dec.1950. 80 M72
- 27444 EISELT, E. Etwas von den linden. *Gärtnermeister* 53:397-398. Dec.7, 1950. 80 G1939
- 27445 ELLIMAN, D. T. Cuttings can be successfully rooted in the open. *Camellian* 1:86. Dec.1950. 97.31 C14
- 27446 ENE DE PIRO, M. Le Catalpa. *Réveil Agr.* 60(2594):5-6. Jan.1, 1951. 14 R322
- 27447 ENE DE PIRO, M. Les Liliacées. *Réveil Agr.* 59:358-359. Dec.1, 1950. 14 R322
- 27448 ENGEL, W. J. Bulb forcing. *Florists' Rev.* 107(2776):29-30, 52. Feb.8, 1951. 80 W41
- 27449 ENGLERT, K. Der schnitt der blütengehölze. *Obstbau* 70:10. Jan.1, 1951. 80 Ob73  
Ornamentals.
- 27450 EVANS, L. J. My favorite rose. *Amer. Rose Mag.* 9(4):26-27. Jan./Feb.1951. 80 Am327A  
Varieties.
- 27451 FAIRLEY, E. H. Adventure with Clematis. *Org. Gard.* 18:52-54. Jan.1951. 56.8 Or3
- 27452 FERNANDES, B. Orchid collecting in California. *Orchid Digest* 14:218. Nov./Dec.1950. 80 Or172  
Epipactis gigantea.
- 27453 FOGG, H. G. W. Building a rock garden. *Allot. & Gard.* 86:4-5. Dec.1950. 80 N217
- 27454 FOGG, H. G. W. Gladioli for gaiety. *My Gard.* 42(205):37-40. Jan.1951. 80 M995  
Culture.
- 27455 FOX, H. M. Delphinium notes from New York. *Amer. Delphinium Soc. Ybk. Delphinium* 1950:36. 96.527 Am3D
- 27456 FRANCIS, E. Bulbs for indoor planting. *Green Thumb [St. Petersburg]* 1(2):28. Dec.1950. 80 G822
- 27457 FREAS, D. D. Osage orange [*Machura pomifera*]. *Nat. Hist.* 60:48. Jan.1951. 500 N483J
- 27458 FREE, M. A "barrel" of African-violets. *Home Gard.* 16(4):15-18. Oct.1950. 80 H756
- 27459 FREE, M. House plants that grow without window sills; some of them would thrive for a cave dweller. *Home Gard.* 16(6):40-45. Dec.1950. 80 H756
- 27460 FREE, M. How to make a garden in a window. *Home Gard.* 16(5):33-36. Nov.1950. 80 H756
- 27461 FREY, E. The miracle—your Begonia garden from seed. *Begonian* 18:5-6, 8. Jan.1951. 96.511 B39
- 27462 FUCHS, H. Fleurs et fruits de France. *Rev. Hort.* 122:248-249. Nov.1950. 80 R32
- 27463 GARRETT, J. C. Planting and care of lawns. *Okl. Agr. Col. Ext. C.* 545, 8 p. n.d. 275.29 Ok41C
- 27464 GASTAUD, J. Le jardin exotique de Monaco. *Rev. Hort. [Paris]* 122:279-283. Dec.1950. 80 R32
- 27465 GILGUT, C. J. About trial gardens. *New Eng. Gladiolus Soc. Gladiolus* 26:30-33. 1951. 96.43 N44
- 27466 GOSLING, L. Tale of a dragon. *New Eng. Gladiolus Soc. Gladiolus* 26:84-88. 1951. 96.43 N44  
Dragon type of Gladiolus.
- 27467 GRAWE, O. R. My pet peeve against rose catalogues. *Amer. Rose Mag.* 9(4):37. Jan./Feb.1951. 80 Am327A  
Listing characteristics of varieties.
- 27468 GREIG, M. Some observations of Rhododendron foliage. *Amer. Rhododendron Soc. Q. B.* 4:146-148. Oct.16, 1950. 81 Am398
- 27469 GRIEBEL, A. *Buddleia alternifolia* ein beachtenswerter schmuckstrauch. *Gartenbauwirtschaft [Wien]* 1950:249. Nov.10, 1950. 80 G1936
- 27470 GROSSMAN, J. Ground covers for Rhododendrons. *Amer. Rhododendron Soc. Q. B.* 4:120-121. July 15, 1950. 81 Am398
- 27471 GROVE, L. C. How to keep big shrubs in bounds. *Better Homes & Gard.* 29(6):198-201. Feb.1951. 80 F9424
- 27472 HAMBLIN, S. F. Old rose portraits. *Amer. Rose Mag.* 9(4):30. Jan./Feb.1951. 80 Am327A  
Varieties.
- 27473 HAMMOND, A. E. A new technique in bulb storage. *Fruit, Flower & Veg. Trades' J.* 98(27):15. Dec.30, 1950. 80 F946
- 27474 HANCOCK, R. When I make a garden. *Watford, Eng., Garnett*, 1950. 80 p. 98 H19
- 27475 HANSEN, R. M. The use of color in Rhododendron plantings. *Amer. Rhododendron Soc. Q. B.* 4:105-108. July 15, 1950. 81 Am398
- 27476 HARDY, J. Carnations under glass. *Nurseryman & Seedsman* 3:1896-1897. Dec.28, 1950. 80 N933



- 27477 HARRINGTON, L., and HARRINGTON, R. At home with orchids; a city dweller has found that this exotic flower is not too difficult to grow provided you have the patience. *Family Herald & Wk. Star* 82(2):7. Jan.11, 1951. 7 F21
- 27478 HARRIS, MRS. E. R. Give your roses a square deal. *Amer. Rose Mag.* 9(4):47-48. Jan./Feb.1951. 80 Am327A
- Culture.
- 27479 HARP, H. P. Try some new perennials in next year's garden. *Farm & Ranch Rev.* 47:16-17. Jan.1951. 7 F223
- 27480 HEIT, C. E. Germination of sensitive flower seed kinds and varieties with suggested methods for testing in the laboratory. *Assoc. Off. Seed Anal. Proc.* 40: 107-117. Ref. 1950. 61.9 As7
- 27481 HENRY, M. G. Some Asters at Gladwyne, Pa. *Amer. Rock Gard. Soc. B.* 8:95-97. Nov./Dec.1950. 81 Am342
- 27482 HOAK, C. M. We grow roses in California. *Org. Gard.* 18:40-42. Jan.1951. 56.8 Or3
- 27483 HOLLY SOCIETY OF AMERICA. Proceedings of the seventh meeting, Swarthmore, Pennsylvania, October 26 and 27, 1950. n.p., 1950. 12 p. 97.31 H72P
- 27484 HUME, M. E. Begonia therapy. *Begonian* 18: 7. Jan.1951. 96.511 B39
- 27485 HUNTINGTON, L. L. Bonsai, dwarf trees. *Amer. Forests* 57(2):19,45. Feb.1951. 99.8 F762
- 27486 JANECK, H. Random notes on Azaleas. *Amer. Rhododendron Soc. Q. B.* 4:141-145. Oct.16,1950. 81 Am398
- 27487 JANSE, J. A. International Congress for the Study of Succulents held in Zürich (Switzerland), Sept. 27-30 in the assembly room of the horticultural garden. (In Dutch.) *Succulenta* 1951(1):2-5. Jan./Feb.1951. 450 Su12
- 27488 JARRY-DESLOGES, R. Les Carica quercifolia hybrides. *Rev. Hort. [Paris]* 122:299. Dec.1950. 80 R32
- 27489 JENSEN, H. Zwei neue Mahoberberis-hybriden. *Deut. Baumsch.* 2:300-301. Dec.1,1950. 80 D486
- Mahoberberis aquicandida and M. aquisargentii.
- 27490 JOHNSON, A. T. The mill garden. London, Collingridge, 1950. 207 p. 97 J631M
- 27491 JOHNSON, M. P. Autumn's windflower [Anemone japonica]. *Home Gard.* 16(5):30-31. Nov.1950. 80 H756
- 27492 JOHNSON, M. P. Monkshood [Aconitum] too little known—too seldom grown. *Home Gard.* 16(4):13-14. Oct.1950. 80 H756
- 27493 JOHNSON, M. P. Sakhalin Euonymus. *Home Gard.* 16(6):30-31. Dec.1950. 80 H756
- 27494 JOHNSON, M. P. The graceful Katsura-tree [Cercidiphyllum japonicum]. *Home Gard.* 16(4):40-41. Oct.1950. 80 H756
- 27495 JONES, R. W. The Supreme Court of the orchid world. *Amer. Orchid Soc. B.* 20:64-68. Feb.1951. 80 Am328
- Orchid Committee of the Royal Horticultural Society.
- 27496 JOUGAN, E. Quelques plantes d'appartement durables. *Acclimatation* 78:7-8. Jan.13,1951. 14 Ac2
- 27497 KAMMERER, E. L. Unusual trees of the arboretum. II. Castanea dentata (Borkh.), the American or sweet chestnut. *Morton Arboretum. B. Pop. Inform.* 25: 43-46. Nov.1950. 99.9 M84
- 27498 KELLENBERGER, F. S. House plants worth knowing. *Horticulture* 29:48-49. Feb.1951. 80 H787
- 27499 KELSEY, J. R. An amateur cactophile's vacation. *Cactus & Succulent J.* 23:23-26. Jan./Feb.1951. 451 C11
- 27500 KELWAY, C. Through the catalogues. *My Gard.* 42(205):65-69. Jan.1951. 80 M995
- 27501 KELWAY, J. James Kelway's comments on the rise of the Delphinium. *Amer. Delphinium Soc. Ybk.* Delphinium 1950:17-19. 96.527 Am3D
- 27502 KENDALL, F., and KENDALL, L. How we garden with lilies. 1-3. *Home Gard.* 16(4):6-12;(5):41-47; (6):62-67. Oct.-Dec.1950. 80 H756
- 27503 KERSHISNIK, P. F. Newer Dahlias in the Pacific Northwest. *Dahlia* 19(2):17. Dec.1950. 80 D133
- 27504 KIRCHER, M., and KIRCHER, R. As we saw and grew them in 1950. *New Eng. Gladiolus Soc. Gladiolus* 26:59-74. 1951. 96.43 N44
- 27505 KNIGHT, H. H. Do Glads change color? *Md. Gard.* 5:4-5. Jan.1951. 80 M362
- 27506 KNCWLES, H. 1950—a year British Delphinium lovers will remember. *Amer. Delphinium Soc. Ybk. Delphinium* 1950:29-30. 96.527 Am3D
- 27507 KNOWLES, R. H. Needed: greater variety in tree and shrub material. *Alberta. U. Dept. Plant Sci. Seasonal Notes* 36:9-10. Jan.6,1951. 64.9 AL12
- 27508 KOCH, W. Die Akazie. *Württemberg. Wchnbl. f. Landwirt.* 118:5. Jan.6,1951. 18 W96
- 27509 KOFRANEK, A. M. Variety and timing experiments with hardy mum pot plants for Mother's Day. *N. Y. State Flower Growers. B.* 63:3-4,8. Nov.1950. 80 N486
- 27510 KROMDIJK, G. Pelargonium as cutting flower. (In Flemish.) *Cult. en Handel* 16:539-540. Sept.1950. 80 C892
- 27511 KROMDIJK, G. Pelargonium Black Vesuvius. (In Flemish.) *Cult. en Handel* 16:540. Sept.1950. 80 C892
- 27512 LANCASTER, B. F. Selecting parents for hybridization. *Amer. Rhododendron Soc. Q. B.* 4:139-141. Oct.16,1950. 81 Am398
- 27513 LA ROUSSELIÈRE, H. DE. Le cyprès de Lambert [Cupressus macrocarpa] dans les pépinières d'Angers. *Rev. Hort.* 122:246-247. Nov.1950. 80 R32
- 27514 LARUS, J. R., and LARUS, C. T. 1950 variety ratings for exhibition purposes. *New Eng. Gladiolus Soc. Gladiolus* 26:39-52. 1951. 96.43 N44
- 27515 LEE, F. P. Shade plants for the Maryland area. *Md. Gard.* 5:6-9. Jan.1951. 80 M362
- 27516 LE GRAVEREND, J. Nouvelles conceptions pour les jardins de la Côte-d'Azur. *Rev. Hort. [Paris]* 122:292-295. Dec.1950. 80 R32
- 27517 LEMMON, R. S. How long is the "ever" in "evergreen"? *Home Gard.* 16(5):7-11. Nov.1950. 80 H756
- 27518 LEMMON, R. S. What to grow in your rock garden. *Home Gard.* 16(4):42-47. Oct.1950. 80 H756
- 27519 LITTLEFIELD, J. J. Sasanqua Camellias are effective espallier plants. *Camellian* 1:87. Dec.1950. 97.31 C14
- 27520 LOMBARTS, J. Fraxinus excelsior "type 5 (Doorenbos)", eine selektion. *Deut. Baumsch.* 2:259-260. Nov.1,1950. 80 D486
- 27521 MARRIAGE, K. High hunting. *Amer. Rock Gard. Soc. B.* 8:101-102. Nov./Dec.1950. 81 Am342
- Plants for rock gardens.
- 27522 MELLO, A. T. DE. Dahlias. (In Portuguese.) *Seleç. Agr.* 5(56):29-31. Dec.1950. 9.2 Se4
- 27523 MILES, E. R. Transplanting our native trees. *Horticulture* 29:46-47. Feb.1951. 80 H787
- 27524 MINTER, M. Begonia lundii. *Begonian* 18:9. Jan.1951. 96.511 B39
- 27525 MOORE, H. C. Gladiolus culture—Piedmont Section, the Carolinas. *New Eng. Gladiolus Soc. Gladiolus* 26:130-132. 1951. 96.43 N44
- 27526 MORRISON, B. Y. Concerning Penstemon dissectus. *Natl. Hort. Mag.* 30:23-25. Jan.1951. 80 N216
- 27527 MULLIGAN, B. O. Some shrubby Penstemons in Seattle. *Natl. Hort. Mag.* 30:32-33. Jan.1951. 80 N216
- 27528 THE MYSTERY of Flathead Lake. *Natl. Hort. Mag.* 30:34-35. Jan.1951. 80 N216
- A strain of Penstemon.
- 27529 NELSON, E. The story of Penstemon nelsonae. *Natl. Hort. Mag.* 30:15-17. Jan.1951. 80 N216
- 27530 NESTEROVICH, N. D. Akklimatizatsiya drevesnykh rastenii v zelenom stroitel'stve i lesnom khozjaistve Belorusskoi SSR [Acclimatization of woody plants in landscape gardening and forestry in White Russian SSR]. *Minsk, Akademiya Nauk Belorusskoi SSR, 1950. 43 p. 463.84 N37*
- 27531 NEW ENGLAND GLADIOLUS SOCIETY. The Gladiolus, 1951; twenty-sixth annual edition. Boston, 1951. 216 p. 96.43 N44
- 27532 NICHOLLS, W. H. Why study orchids? *Victorian Nat.* 67:144-145. Nov.1950. 410 V66
- 27533 NICOLAS, J. N. Manuel du jardinier-fleuriste et de l'amateur de fleurs. Paris, Bornemann, 1950. 143 p. 96 N51
- 27534 NIKOLAENKO, N. P. Semenovodstvo (svetochnykh kul'tur otkrytogo grunta [Seed production of flowers grown in unprotected ground]). Moskva, Ministerstvo Kommunal'nogo Khozjaistva RSFSR, 1950. 75 p. 463.46 N58



- 27536 NORTHERN, R. T. Buying inexpensive plants. Amer. Orchid Soc. B. 20:19-23. Jan.1951. 80 Am329
- 27537 OTAGURO, W. H. Hawaii Orchid Show. Amer. Orchid Soc. B. 20:14-18. Jan.1951. 80 Am329
- 27538 PACKARD, J. H. Are you guilty? Amer. Rose Mag. 9(4):23-25. Jan./Feb.1951. 80 Am327A  
Color and fragrance of flowers.
- 27539 PALMER, J. W. Iris in Arlington. Amer. Iris Soc. Region 4. B. 1950:24-25. July 1950. 96.45 Am32B
- 27540 PATIENCE, W. F. Small talk. New Eng. Gladiolus Soc. Gladiolus 26:75-81. 1951. 96.43 N44  
Small varieties.
- 27541 PATTERSON, U. L. Pot plants. Florists' Rev. 107(2777):31-32. Feb.15,1951. 80 W41
- 27542 PERKINS, M. H. Iris gardening for the beginner. Amer. Iris Soc. Region 4. B. 1950:14-18. July 1950. 96.45 Am32B
- 27543 PESSCOTT, E. E. Beauty of foliage trees. Westralian Framers' Co-op. Gaz. 19:309-310. Nov.1950. 280.28 W522
- 27544 PFUND, P. Roses in the landscape. Org. Gard. 18:66-68. Jan.1951. 56.8 Or3
- 27545 PHILIPPSTHAL, H. F. Profitable and effective pruning. Agrarian 9(2):6. Jan.1950. 276.8 Ag8  
Trees.
- 27546 PHILLPOTTS, D. Our London roof garden. My Gard. 42(205):83-86. Jan.1951. 80 M995
- 27547 POCTA, C. S. Delphiniums—from seed to blooming plant. Amer. Delphinium Soc. Ybk. Delphinium 1950:71. 96.527 Am3D
- 27548 PRENTICE, C. Rhododendrons and our 1950 winter. Amer. Rhododendron Soc. Q. B. 4:119-120. July 15,1950. 81 Am398
- 27549 PRESTON, N. Our aristocrats. Amer. Iris Soc. Region 4. B. 1950:20-22. July 1950. 96.45 Am32B
- 27550 PUCCINI, G. Oreopanax capitatus. (In Italian.) Riv. della Ortoflorofrutticoltura. Ital. 34:209-217. Ref. Nov./Dec.1950. 86 R22
- 27551 PUDDLE, F. C. Some ideas on garden arrangement. My Gard. 42(205):19-25. Jan.1951. 80 M995
- 27552 REINELT, F. The quest of the red Delphinium. Amer. Delphinium Soc. Ybk. Delphinium 1950:10-13. 96.527 Am3D
- 27553 REINELT, F. Twenty years of breeding tuberous Begonias. Begonian 17:255-256. (Concl.) Dec. 1950. 96.511 B39
- 27554 RICHERT, A. M. Water culture. African Violet Mag. 4(2):4-5. Dec.1950. 80 Af8
- 27555 RIPLEY, D. Experiment in New York. Amer. Rock Gard. Soc. B. 8:92-95. Nov./Dec.1950. 81 Am342  
Rock gardening.
- 27556 ROBERTS, E. Saintpaulia amaniensis; a new species of Saintpaulia. African Violet Mag. 4(2):6-7. Dec.1950. 80 Af8
- 27557 ROBINSON, J. You can have a better lawn. Merrimack's Mon. Messenger 13(1/2):23-25. Jan./Feb. 1951. 6 M55
- 27558 ROBINSON, P. L. Planning the new place. 1-3. Home Gard. 16(4):19-21;(5):73-76;(6):25-29. Oct.-Dec. 1950. 80 H756
- 27559 ROCKWELL, F. E. Facts about pruning. Home Gard. 16(6):52-57. Dec.1950. 80 H756
- 27560 ROCKWELL, F. F. Around the year with Amaryllis. Home Gard. 16(6):68-70. Dec.1950. 80 H756
- 27561 ROCKWELL, F. F. Bulb garden from the "freezer." Home Gard. 16(5):14-19. Nov.1950. 80 H756
- 27562 ROCKWELL, F. F. How and when fall planting pays. Home Gard. 16(4):56-59. Oct.1950. 80 H756
- 27563 ROCKWELL, F. F. How to get the most from your spring bulbs. Home Gard. 16(4):70-75. Oct.1950. 80 H756
- 27564 ROCKWELL, F. F. How tree growth can be controlled. Home Gard. 16(5):66-71. Nov.1950. 80 H756
- 27565 ROCKWELL, F. F. How's your stock of arrangement material? Home Gard. 16(6):37-39. Dec. 1950. 80 H756
- 27566 ROETS, V. M. Success story. African Violet Mag. 4(2):17-19. Dec.1950. 80 Af8  
Saintpaulia culture.
- 27567 ROSE, F. H. Penstemon flavesens. Natl. Hort. Mag. 30:20-22. Jan.1951. 80 N216
- 27568 ROWARTH, R. L. Australia's best. Dahlia 19(2):21. Dec.1950. 80 D133
- 27569 SALAZAR ALVAREZ, J. M. Cercas vivas. Rev. Agr. y Ganad. 12(129):28. Oct.1950. 9.4 R327
- 27570 SALTER, R. M. Ten new U.S.D.A. Azaleas. Amer. Rhododendron Soc. Q. B. 4:125-126. July 15,1950. 81 Am398
- 27571 SAMUELSON, A. A. Delphinium menziesii, var. ochroleucum and its variety—"picotee." Amer. Delphinium Soc. Ybk. Delphinium 1950:23-26. 96.527 Am3D
- 27572 SAWADA, K. Winter hardiness of Camellias. Camellian 1:83,101. Dec.1950. 97.31 C14
- 27573 SCHAMPEL, E. Nineteenth annual show of Central States Dahlia Society. Dahlia 19(2):6-9. Dec. 1950. 80 D133
- 27574 SCHMID, W. Chrysanthemen-schau in Stäfa. Gärtnermeister 53:358-359. Nov.2,1950. 80 G1939
- 27575 SCULLY, A. Variegation is still a mystery. African Violet Mag. 4(2):20-22,42-46. Dec.1950. 80 Af8
- 27576 SCULLY, R. M. A little care makes better flowers. Amer. Orchid Soc. B. 20:77-79. Feb.1951. 80 Am329
- 27577 SEATON, J. S. A delightful blue flower for the Australian garden (Platytheca verticillata of Western Australia). Victorian Nat. 67:141. Nov.1950. 410 V66
- 27578 SECKMAN, M. C. Novelty tulips set the pace. Tulip Tidings 3(3):6-8. Fourth Q.1950. 96.49 T822
- 27579 SECKMAN, M. C. The first—and last—flower of autumn. Home Gard. 16(4):48-55. Oct.1950. 80 H756  
Chrysanthemum.
- 27580 SENIOR, R. M. Phyteumas. Amer. Rock Gard. Soc. B. 8:98-99. Nov./Dec.1950. 81 Am342
- 27581 SERSANOUS, C. I. The American Rhododendron Society Test Garden at Portland Oregon. Amer. Rhododendron Soc. Q. B. 4:135-137. Oct.16,1950. 81 Am398
- 27582 SERSANOUS, C. I. Portland's triflorum Rhododendrons. Amer. Rhododendron Soc. Q. B. 4:124. July 15,1950. 81 Am398
- 27583 SHEWELL-COOPER, W. E. Careful cuttings for commercial Chrysanthemums. Fruit, Flower & Veg. Trades' J. 99(3):27-28. Jan.20,1951. 80 F946
- 27584 SHEWELL-COOPER, W. E. Flowers under glass: further notes regarding Begonias. Fruit-Grower 2875:186. Feb.1,1951. 80 F941
- 27585 SHIELDS, P. G. Buy glads to feed thy soul. New Eng. Gladiolus Soc. Gladiolus 26:11-14. 1951. 96.43 N44  
Flower arrangement.
- 27586 SIMPSON, A. K. Clematis for soaring color. Home Gard. 16(6):20-24. Dec.1950. 80 H756
- 27587 SLOCOCK, W. Rhododendrons at Goldsworth. Amer. Rhododendron Soc. Q. B. 4:109-111. July 15,1950. 81 Am398
- 27588 SMITH, H. Dry wall gardening: explaining the fascinating art of converting utilitarian walls into features of floral beauty. Smallholder 84(2120):15. Jan.5, 1951. 10 Sml
- 27589 SMOUSE, L. F. Trichosporum. African Violet Mag. 4(2):16. Dec.1950. 80 Af8
- 27590 STELLER, A. W. Hillside gardening. Amer. Iris Soc. Region 4. B. 1950:18-20. July 1950. 96.45 Am32B
- 27591 STILWELL, F. African violets under fluorescent light. African Violet Mag. 4(2):12-13. Dec.1950. 80 Af8
- 27592 STOCKDALE, A. The process of growing orchids. Amer. Orchid Soc. B. 20:11-13. Jan.1951. 80 Am329
- 27593 STRONG, P. The glory of the garden. New York, Dutton, 1951. 189 p. 97 St8
- 27594 STROOP, H. E. How to plant an aquarium. Home Gard. 16(4):33-39. Oct.1950. 80 H756
- 27595 TEUSCHER, H. The propagation of Ginkgo biloba from cuttings. Parks & Recreation 34:10-11. Jan.1951. 98.8 P23  
Similar title in Amer. Nurseryman 93(2):7. Jan.15,1951. 80 Am371
- 27596 THÉE, J. Duranta plumieri (Verbenacées). Rev. Hort. [Paris] 122:296. Dec.1950. 80 R32
- 27597 UITEWAAL, A. J. A. Gasteria lingua (Tunb.) Berger (Gast. disticha (L.) Haw. (In Dutch.) Succulenta 1951(1):15-16. Jan./Feb.1951. 450 Su12
- 27598 UITEWAAL, A. J. A. On a roof in Amsterdam. (In Dutch.) Succulenta 1951(1):12-15. Jan./Feb.1951. 450 Su12  
Cactus culture.



- 27599 VACHEROT. Une collection d'Orchidées à la Martinique. *Rev. Hort.* 122:245. Nov.1950. 80 R32
- 27600 VAN MELLE, P. J. Trees & shrubs for snow country. *Home Gard.* 16(6):7-10. Dec.1950. 80 H756
- 27601 VEYRENC, H. Petites fleurs étranges: Orchis et Ophrys algériens, comment les cultiver. *Rev. Hort. de l'Algérie* 54:279-287. Oct.1950. 87 R32
- 27602 VINEYARD, O. Why flower arrangements? *Green Thumb [St. Petersburg]* 1(2):10-14. Dec.1950. 80 G822
- 27603 WALKER, C. Notes from a New Zealand garden. *Amer. Rock Gard. Soc. B.* 8:104-105. Nov./Dec. 1950. 81 Am342
- 27604 WASSCHER, J. Artificial illumination in flower growing. (In Dutch.) *Vakbl. v. de Bloemisterij* 5: 404. (Cont.) Dec.15,1950. 80 V22
- 27605 WATKINS, J. V. Repot orchids now. *Under Glass* 5:6. Jan./Feb.1951. 80 Un2
- 27606 WATKINS, J. V. Trees for small home grounds. *Fla. Grower* 59(2):14. Feb.1951. 80 F6622
- 27607 WEALE, K. M. Show winners — 1950 symposium. *New Eng. Gladiolus Soc. Gladiolus* 26:52-58. 1951. 96.43 N44
- 27608 WEATHERFORD, R. V. "Speed up" your perennials! *Green Thumb [St. Petersburg]* 1(2):25,34. Dec.1950. 80 G822
- 27609 WEBB, R. W. Eastern Dahlia review. *Dahlia* 19(2):24-25,40. Dec.1950. 80 D133
- 27610 WEBER, G. Einiges über des verpflanzen von gehölzen und ziersträuchern. *Gartenbauwirtschaft [Wien]* 1950:265. (Concl.) Nov.25,1950. 80 G1936
- 27611 WEITING, C. How to plant on a budget. *Better Homes & Gard.* 29(6):208-210. Feb.1951. 80 F9424
- 27612 WELLS, J. S. Pointers on propagation. Grafting in the coldframe. *Amer. Nurseryman* 93(2):12,65. Jan.15,1951. 80 Am371
- Shrubs and trees.
- 27613 WILLIAMS, D. H. Stems or canes? *Amer. Rose Mag.* 9(4):48-49. Jan./Feb.1951. 80 Am327A
- Rose judging.
- 27614 WILSON, C. G. Breeding a "shatter-proof" Delphinium. *Amer. Delphinium Soc. Ybk. Delphinium* 1950:48-49. 96.527 Am3D
- 27615 WITT, J. Penstemons from a car window. *Natl. Hort. Mag.* 30:26-29. Jan.1951. 80 N216
- 27616 WOLF, W. Winterblüher im garten. *Gartenjahr* 5:28. Feb.1950. 80 G1932
- 27617 WOLFE, J. M. Useful climbing plants. *Horticulture* 29:49. Feb.1951. 80 H787
- 27618 WRIGHT, P. H. The Banshee rose. *Horticulture* 29:47. Feb.1951. 80 H787
- Vegetable and Truck Crops (Including Potatoes)**
- 27619 AGATI, G. Culture of some strains of English caulicoups. (In Italian.) *Riv. della Ortofrutticoltura.* Ital. 34:218-220. Nov./Dec.1950. 86 R22
- 27620 AGUILA, G. R., and RIVERA GARCIA, S. Rabanos para El Salvador. *Cent. Nac. de Agron. C. Agr.* 28,4 p. Nov.1950. 8 Sa54C
- Culture.
- 27621 ARRUDA, B. Beans like these "Nem em Paris." (In Portuguese.) *Chacaras e Quintais* 82:715-717. Dec.15,1950. 9.2 C34
- A variety.
- 27622 ASAKURA, K. Sosa [Vegetables]. Tokyo, Asakura Shoten, 1950. 272 p. 91.13 As1
- 27623 ASHTON, L. S. The asparagus bed. *Org. Gard.* 18:46-49. Jan.1951. 56.8 Or3
- 27624 ATKINS, F. C. The tray system in Great Britain, with the original article by Dr. James W. Sinden. *Yaxley, Peterborough, Eng., Mushroom Growers' Assoc.*, 1950. 15 p. 91.7 At5T
- 27625 BARNES, W. C. For an early spring crop Santee [cucumber] yields 2-3 times more. *South. Seedsman* 14:28-29,59. Jan.1951. 61.8 So8
- 27626 BIANCHEDI, A. The Treviso chicory. (In Italian.) *Gior. di Agr.* 61:3. Jan.7,1951. 16 It1G
- 27627 BLIN, H. Pour produire l'endive. *Monit. Agr.* 4(143):2. Jan.7,1951. 14 M744
- 27628 BOOTH, C. E. Let's grow green peas. *Org. Gard.* 18:19-21. Jan.1951. 56.8 Or3
- 27629 BOTTING, H. L. Brassicas. *Lincoln Col. Rur. Educ. B.* 5:130-133. Sept.1950. 109 C162
- Varieties.
- 27630 BURKHART, L. Arizona melons. *Prog. Agr. Ariz.* 2(4):5,11. Jan./Mar.1951. 6 P9452
- 27631 CAMPACCI, C. A. Care to be taken in the harvesting of onions. (In Portuguese.) *Chacaras e Quintais* 82:725-726. Dec.15,1950. 9.2 C34
- 27632 CÁSSERES, E. H., and LINARES, P. J. Producción de variedades de tomates para los trópicos húmedos. *Turrialba* 1:7-11. July 1950. 8 T86
- English summary.
- 27633 CASTILLO ROYO, J. DEL. El boniato y la patata de Málaga. *Cult. Mod.* 33:405-406. Nov.1950. 15 C89
- Varieties and culture.
- 27634 CAVIA, C. E. Indicaciones para la siembra y descripción sumaria de buenas variedades hortícolas. Argentina. *Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr.* 2(15):2-19. (To be cont.) Sept.1950. 9 Ar35
- 27635 CETTI, G. Potato culture research. (In Italian.) *Campagna* 49:224. Dec.1,1950. 16 C152
- 27636 COSTE, A. Récents travaux italiens sur les tomates. *Soc. des Agr. d'Algérie. B.* 93:271-280. Ref. Aug.1950. 24 Sol
- Varietal research.
- 27637 DEML, H. Die kartoffelernte. *Kartoffelbau* 1: 78-79. Sept.1950. 75.8 K145
- 27638 DENMARK. STATENS FORSØGSVIRKSOMHED I PLANTEKULTUR. Celeriac variety trials 1946-1948. (In Danish.) *Tidsskr. f. Planteavl* 54:171-172. 1950. 11 T439
- 27639 DENMARK. STATENS FORSØGSVIRKSOMHED I PLANTEKULTUR. Experiments in growing early potatoes. (In Danish.) *Tidsskr. f. Planteavl* 54:161-163. 1950. 11 T439
- 27640 EDWARDS, G. R. New potato varieties. *So. Austral. Dept. Agr. J.* 54:74-75. Sept.1950. 23 So84
- 27641 ESCHWEILER, T. Meine versuche und erfahrungen mit pflanzenhormonen bei tomaten. *Obstbau* 70: 11-12. Jan.1,1951. 80 Ob73
- 27642 ETTINGER, J. New tomato varieties. (In Hebrew.) *Hassadeh* 30:683-684. Sept.1950. 26 H27
- 27643 ETTINGER, J., and TREUHOLD, H. Vegetable growing for beginners (No. 10). (In Hebrew.) *Hassadeh* 30:688-694. Sept.1950. 26 H27
- 27644 FLAWN, L. N. Vegetable varieties for cloche sowings. *Smallholder* 84(2121):9. Jan.12,1951. 10 Sm1
- 27645 FLORES A., M. A. El name y su cultivo. *Cent. Nac. de Agron. C. Agr.* 21,4 p. Sept.1950. 8 Sa54C
- 27646 GAGNARD, J. Maintenons la qualité de nos tomates d'exportation. *Rev. Agr. de l'Afrique du Nord* 48:867-869. Nov.24,1950. 80 R326
- Culture in Algeria.
- 27647 GILMAN, W. Early sweet corn is easy. *Org. Farmer* 2,i.e.3:22-23. Jan.1951. 57.8 Or3
- 27648 GRUBE, K., and SOMMER, K. Wie ernten wir unsere kartoffeln? *Kartoffelbau* 1:62-64. Aug.1950. 75.8 K145
- 27649 HAAN, H. DE. The culture of new potato varieties. (In Dutch.) *Overijsselsch Landbbl.* 32(1584): 11. Dec.23,1950. 12 Ov2
- Also in *Drents Landbbl.* 31(50):11. Dec.23,1950. 12 D812
- 27650 HARTMAIR, V. Saatgutherkunft und anbauverfolg bei gemüse. *Gartenbauwirtschaft [Wien]* 1950:243-244. Nov.10,1950. 80 G1936
- 27651 HAWKES, J. G. The Commonwealth Potato Collection. *Amer. Potato J.* 28:465-471. Jan.1951. 75.8 P842
- 27652 IL'IN, V. F. Achievements of Heroes of Socialist Labor in potato culture. (In Russian.) *Sad i Ogorod* 1950(10):69-74. Oct.1950. 80 Sa13
- 27653 JEREMY, E. In praise of chicory. *Farm & Gard. Digest* 2(7):29-30. Dec.1950. 56.8 Or32
- 27654 KEEGAN, C. F. The florist industry's role in vegetable garden plans. *Florists' Exch.* 116(7):15. Feb.17,1951. 80 F666
- 27655 KELBERT, D. G. A. New vegetable varieties. *I. Fla. Grower* 59(2):21,32. Feb.1951. 80 F6622
- 27656 KITAJIMA, K. Baiyo shukin ni yoru shiitake, nameko, enokitake no jinko sabaiho [Method of cultivating the artificial mushrooms of Cortinellus shiitake, nameko and nettle-tree]. Tokyo, Chiku Shuppan, 1950. 111 p. 91.7 K64



- 27657 KLINKOVITZKY, S. The growing of non-irrigated potatoes. (In Hebrew.) Hassadeh 31:76-77. Nov./Dec.1950. 26 H27
- 27658 LABORDE, M. La lentille verte du Puy. France. Min. de l'Agr. B. Tech. d'Inform. 54:695-698. Nov.1950. 14 F844B
- 27659 LACHAUME, J., and BELLAIR, G. Les champignons de couche et autres espèces cultivables; culture bourgeoise et commerciale, récolte et conservation. Ed. 13, rev. Paris, La Maison Rustique, 1950. 116 p. 91.7 L11
- 27660 LOADS, F. W., and FOGG, H. G. W. My favourite vegetable varieties. Smallholder 84(2119):7; (2120):9. Dec.29,1950-Jan.5,1951. 10 Sml
- Deals with salad plants and miscellaneous vegetables.
- 27661 MCDERMOTT, N. Swansea—a seed potato area? Fruit-Grower 2875:197. Feb.1,1951. 80 F941
- 27662 MACKENSEN, E. Qualitätsarbeit, das geheimnis eines gesicherten absatzes. Kartoffelbau 1:73-74. Sept.1950. 75.8 K145
- Seed potatoes.
- 27663 MEYER, F. Betriebswirtschaftliche überlegungen zur kartoffelernte. Kartoffelbau 1:77-78. Sept. 1950. 75.8 K145
- 27664 MOELLER, S. The cultivation of non-irrigated vegetables: a. winter vegetables. (In Hebrew.) Hassadeh 31:77-79. Nov./Dec.1950. 26 H27
- 27665 MORRISON, G. The cabbage tribe of vegetables. Seed World 68(3):48,50-51. Feb.2,1951. 61.8 Se52
- 27666 NAPRETH, N. Die champignonbrut. Gartenbauwirtschaft [Wien] 1950:260-261. Nov.25,1950. 80 G1936
- 27667 NICKERSON, H. A. The 1951 vegetable garden. Horticulture 29:50-51,63. Feb.1951. 80 H787
- 27668 NISSEN-DREJER, R. Potet [Potato]. Oslo, Studielsselskapet for Kosthold og Helse, 1950. 13 p. 389.1 N63P
- 27669 NORDBO, H. Potato culture and potato storage in Red River Valley, U. S. A. (In Norwegian.) Norsk Landbr. 16:462-465,483-485. Dec.8-15,1950. 11 N8122
- 27670 NOZAKI, N. Yasai no tsukuri-kata [Method of vegetable cultivation]. Tokyo, Chikuyo, Shobo, 1950. 198 p. 91.15 N87
- 27671 OGNEV, I. M. To extend the plantings of gymnospermous squash [Belorusskaf 24-G]. (In Russian.) Sad i Ogorod 1950(10):64-66. Oct.1950. 80 Sa13
- 27672 OOBUCHI, S. Nogyo zensho; sosai-hen [The compendium of agriculture; vegetables]. Tokyo, Maki shobo, 1950. 359 p. 91 Oo8
- 27673 POMOGEVA, A. I. New variety of lentils. (In Russian.) Selekt. i Semen. 17(9):74. Sept.1950. 61.9 Se5
- 27674 PORTE, C. La culture du melon, type Ca-vallon. Réveil Agr. 59:358. Dec.1,1950. 14 R322
- 27675 REINECKE, V. Useful hints on the production of asparagus. Farmer's Wk. [Bloemfontein] 80:55. Jan. 24,1951. 24 F225
- 27676 ROBINSON, J. Plan the [vegetable] garden. Merrimack's Mon. Messenger 13(1/2):8-9. Jan./Feb. 1951. 6 M55
- 27677 ROCKWELL, F. F. Simplify your garden this year. Country Gent. 121(2):24-25,137-140. Feb.1951. 6 C833
- Vegetable gardening operations.
- 27678 ROSELLA, E. Achetez des pommes de terre de semence, mais choisissez bien. Réveil Agr. 60(2594): 3. Jan.1,1951. 14 R322
- 27679 ROSELLA, E. Pensez, dès maintenant à acheter vos pommes de terre de semences et triez vos semences récoltées à la ferme. Prog. Agr. et Vitic. 1950:406-408. Dec.31,1950. 14 P94
- 27680 SAGOS U., J. A. El frijol (Faseolus vulgare). Agr. Costarricense 8:466-470. Dec.1950. 8 Ag895
- Varieties.
- 27681 SCHMIDT, Die kartoffel in aller welt; beobachtungen auf einer Hollandreise. Kartoffelbau 1:88-89. Sept.1950. 75.8 K145
- 27682 SEELIG, R. A. Fruit & vegetable history: lettuce. Fruit & Veg. Rev. 12(10):12-13,20. Jan.1951. 80 C1224
- 27683 SEFER, E. Culture of the sweet potato. (In Portuguese.) Lav. Arroz. 4(46):17-18. Oct.1950. 59.8 L39
- 27684 SERBEN, E. Cultivo artificial de setas (champignon). Cult. Mod. 33:420-421. Nov.1950. 15 C89
- 27685 SHEWELL-COOPER, W. E. Vegetable growing indoors. New Health 26:16. Jan.1951. 449.8 N45
- 27686 SØRENSEN, H. Variety trials with celeriac 1946-1948. (In Danish.) Tidsskr. f. Planteavl 54:93-106. 1950. 11 T439
- 27687 STROGANOV, A. K. Seed production of sharp onion varieties. (In Russian.) Sad i Ogorod 1950(10):62-64. Oct.1950. 80 Sa13
- 27688 SVIRIDENKOV, T. N. Result of collective farm transition to certified potato seed planting. (In Russian.) Selekt. i Semen. 17(9):8-10. Sept.1950. 61.9 Se5
- 27689 SWAMINATHAN, M. S. Notes on induced polyploids in the tuber-bearing Solanum species and their crossability with Solanum tuberosum. Amer. Potato J. 28:472-475,478-489. Jan.1951. 75.8 P842
- 27690 THEISS, L. E. Exploring the garden; testing new vegetables is an enjoyable hobby. Org. Gard. 18:62-65. Jan.1951. 56.8 Cr3
- 27691 TIEDJENS, V. A. Pungo outyields Cobbler. South. Seedsman 14:26,68. Jan.1951. 61.8 So8
- Potatoes.
- 27692 TÔYAMA, S. An outline of studies on sweet potato in Japan. (In Japanese.) Tottori Soc. Agr. Sci. Trans. 9:10-13. Dec.1949. 513 T64
- 27693 VIEREGGE, G. Der westen in erwartung unserer pflanzkartoffellieferungen. Kartoffelbau 1:76-77. Sept.1950. 75.8 K145
- 27694 VOLKOVA, M. S. Melon crops under conditions of Krasny Kut. (In Russian.) In Krasnokutskaf Gosudarstvennaf Selektzionnaf Stanfifa. Sbornik nauchnykh rabot za 1944-1948 gg, p.175-178. Ref. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 27695 VORSTER, P. W. Cultural studies with onions in the Transvaal. Farming So. Africa 25:353-356. Nov. 1950. 24 So842
- 27696 VOSS, H. Wie ernte ich meine kartoffeln? Kartoffelbau 1:64. Aug.1950. 75.8 K145
- 27697 WANDL, H. Neue und ältere treib- und freiland-kopfsalatsorten, die beachtung verdienen. Gärt.-Kur. 5(24):3-4. Dec.15,1950. 80 G1942
- 27698 YONAIYAMA, T. Sosai saibai zensho [A complete work on vegetable cultivation]. Tokyo, Azumi Shobo, 1950. 2 v. 91 Y8

## WEEDS AND POISONOUS PLANTS

- 27699 ARLE, H. F., and CORDS, H. P. Weed control in flax. Prog. Agr. Ariz. 2(4):9. Jan./Mar.1951. 6 P9452
- 27700 BLACKMAN, G. E., and ROBERTS, H. A. Studies in selective weed control. I-II. J. Agr. Sci. [London] 40:62-81. Ref. Jan./Apr.1950. 10 J822
- I, The control of annual weeds in winter wheat; II, The control of annual weeds in spring cereals.
- 27701 BOULLENNE-WALRAND, M. Considérations et expériences sur les herbicides 2-4 D. et homologues. Gent. Landhoges. Meded. 15:128-153. Apr.1950. 105.1 G344
- English summary.
- 27702 BRØNDEGAARD, V. J. The wicked plant [Chrysanthemum segetum]. (In Danish.) Dansk Landb. 69:657-659. Dec.28,1950. 280.28 V91
- 27703 CHATEL, C. L'herbe et les arbres fruitiers. Réveil Agr. 59:356-357. Dec.1,1950. 14 R322
- 27704 CHEVALIER, A. Un genre de plantes toxiques pour le bétail: le g. Senecio. Rev. Internatl. de Bot. Appl. d'Agr. Trop. 30:521-526. Sept./Oct.1950. 26 R3:3
- 27705 COHEN, G. A summary of the control of weeds in fields of winter cereals in 1949/50. (In Hebrew.) Hassadeh 30:720-722. Sept.1950. 26 H27
- 27706 COHEN, G. Susceptibility of weeds and plants to NH<sub>4</sub> DNOSBP. (In Hebrew.) Hassadeh 31:115-117. Nov./Dec.1950. 26 H27
- 27707 CORNS, W. G. Field experiments with herbicides. Alberta. U. Dept. Plant Sci. Seasonal Notes 36:1-2. Jan.6,1951. 64.9 AL12
- 27708 CORY, V. L. Increase of poison-bitterweed (Hymenoxys odorata) on Texas range lands. Field & Lab. 19:39-44. Jan.1951. 470 F46
- 27709 DAVIDSON, W. A. More about weeds. Assoc. Off. Seed Anal. Proc. 40:87-89. 1950. 61.9 As7



27710 DAVIES, G. M., and DAVIES, R. P. The control of bracken on unploughable land. *Gt. Brit. Min. Agr. Agriculture* 57:365-367. Nov.1950. 10 G79J

27711 DENMARK. STATENS FORSØGSMØJRSOMHED I PLANTEKULTUR. Control of weeds in carrots, celery, etc. (In Danish.) *Tidsskr. f. Planteavl* 54:177-180. 1950. 11 T439

27712 DENMARK. STATENS FORSØGSMØJRSOMHED I PLANTEKULTUR. Control of weeds in garden onions and leeks. (In Danish.) *Tidsskr. f. Planteavl* 54:176-177. 1950. 11 T439

27713 DENMARK. STATENS FORSØGSMØJRSOMHED I PLANTEKULTUR. Effects of various chemicals on weeds. (In Danish.) *Tidsskr. f. Planteavl* 54:164-167. 1950. 11 T439

27714 DENMARK. STATENS UKRUDTSFORSØG. The Danish Institute for Weed Research 1948. (In Danish.) *Tidsskr. f. Planteavl* 54:132-136. 1950. 11 T439  
English summary.

27715 DUCOURTIAL, P. A propos de désherbants sélectifs à base de 2,4-D. *B. des Engrais* 326:190. Dec. 1950. 57.8 B87

27716 DU TOIT, R. A resumé of the Weeds Act, and the relative proclamations and regulations. *Farming So. Africa* 25:373-376. Nov.1950. 24 So842

27717 FAESTRAETS, M. L. DE. Utilisation des herbicides sélectifs dans les cultures de légumes pour les usines de conserves. *Cong. Internat. des Indus. Agr. Rap.* 8(1):205-213. Ref. 1950. 388 C765

27718 FISHER, C. E., and YOUNG, D. W. Control of mesquite. *Cattleman* 37(9):22-23,66,68. Feb.1951. 49 C29

27719 FRIGGENS, P. Can we burn our brush? *Farm J.* 75(2):28-29,94-96. Feb.1951. 6 F2212

27720 GONGGRIJP, J. Herbicides. (In Dutch.) *Bergcultures* 19:411,413,415,417. Nov.16,1950. 22.5 B45

27721 HAMILTON, R. D., WHITFIELD, C. J., and REA, H. E. Soil treatments for field bindweed [*Convolvulus arvensis*] eradication in Northwest Texas. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1304,4 p. Dec.18,1950. 100 T31P

27722 HES, J. W. The weed problem in Java. *Sugar* 46:37. Jan.1951. 65.8 F11

27723 HOLMES, E. Some aspects of the use of "hormone" weedkillers. *Cong. Internat. des Indus. Agr. Rap.* 8(1):185-193. 1950. 388 C765

27724 HUFNAGL, H. Die beiden "feindlichen" heidekräuter Erica und Calluna. *Allg. Forstztg.* 61:199-200. Dec.1950. 99.8 AL53

27725 HURST, F. Clean as a floor—sheep hoe sugar cane. *Prog. Farmer, Miss.-Ark.-La. Ed.* 66:15,96. Jan.1951. 6 So81

Use of sheep to control Johnson grass in Louisiana sugar cane fields.

27726 KING, L. J., LAMBRECH, J. A., and FINN, T. P. Herbicidal properties of sodium 2,4-dichlorophenoxyethyl sulfate. *Boyce Thompson Inst. Contrib.* 16:191-208. Ref. Oct./Dec.1950. 451 B69

27727 KOGLER, J. H., and LOWRY, O. J. Taming the Tamarisk [*Tamarix aphylla*] (salt cedar). *Reclam. Era* 37:37-38. Feb.1951. 156.84 R24

27728 LAHOVER, D., and HURWITZ, S. Methods for the destruction of sedge (*Cyperus rotundus* L.). (In Hebrew.) *Hassadeh* 30:718-720. Sept.1950. 26 H27

27729 LAVALLARD, M. L. Chemical weed control works. *Ark. Farmer* 103(2):11,13,20. Feb.1951. 6 Ar42

27730 LINE ELEVATORS FARM SERV. A guide in the use of 2,4-D and other agricultural chemicals. *Winnipeg*, 1950. 24 p. 79 L642

27731 NYLUND, R. E. Controlling weeds in strawberries with 2,4-D. *Ill. State Hort. Soc. Ill. Hort.* 39(2): 5,8. Summer 1950. 80 IL66

27732 OSTLING, J. Chemical weed control. *Pacific Grange Farmer* 1951:5-6. Jan.1951. 6 P115

27733 PFEIFFER, R. Erfolgreiche distelbekämpfung in getreidefeldern mit hormonpräparaten. *Pflug* 3:252-254. Dec.1950. 10 P48

27734 PISTOR, W. J. Johnson-grass [*Sorghum halepense*] poisoning. *Ariz. Agr. Col. Ext. C.* 168,2 p. Nov.1950. 275.29 Ar42

27735 PLANT, W. Horse-tail [*Equisetum*] v. good grass. *Farmers Wk. [London]* 34(4):49. Jan.26,1951. 10 F2226

Eradication by good farming.

27736 RICKER, P. L. The danger of weed killers. *Wild Flower* 26:74-75. Oct.1950. 451 W642

27737 SCHAEFFLER, H. Das auftreten des flughalers (*Avena fatua* L.) in Bayern und die derzeitigen möglichkeiten zu seiner bekämpfung. *Z. f. Pflanzenbau u. Pflanzenschutz. Sonderh.* 2,85 p. Aug.1950. 464.8 Z32

27738 SHISHKIN, B. K. [Adovitye rastenifa lugov i pastbishch [Poisonous plants of meadows and pastures]. Moskva, Akademiia Nauk SSR, 1950. 524 p. 452.83 Sh6

27739 SHIVAPURI, T. N., and TYAGI, B. P. Methoxone as an eradicator of the weed, *Pluchea lanceolata* (Vern. Baisurai). *Indian Farming* 11:116. Mar.1950. 22 In283

27740 SLAATS, M., and STRYCKERS, J. Improvement of the sward of permanent pastures. I. Investigations on the repeated application of small amounts of hormone derivatives as selective herbicides. (In Dutch.) *Genl. Landbhogesch. Meded.* 15:227-263. Apr.1950. 105.1 G334

English summary.

27741 SROKA, K. H. Berufskrankheiten durch pflanzliche stoffe. *Nat. u. Nahr. Ausg. B* 4:93-96. Sept. 1950. 80 N218B

Poisonous plants, including those poisonous to livestock.

27742 STAFFORD, J. Less weeds with simple tools. *Sugar Beet* 9(8):22-23. Dec.1950. 66.8 Su34B

27743 STEWART, G. Healthy ranges resist Halogeton. *Utah Farmer* 71:3. Jan.4,1951. 6 D45

27744 TINGEY, D. C., and TIMMONS, F. L. Weeds; methods for their control and eradication. *Utah. Agr. Expt. Sta. C.* 127,47 p. 1950? 100 Utl

27745 WHALLON, A. P. Weeds: their control and use. *Org. Farmer* 2,i.e.3:14-16,52-53. Jan.1951. 57.8 Or3

27746 WILLIS, S. J. The control of buttercups [*Ranunculus*] on permanent pasture. *Gt. Brit. Min. Agr. Agriculture* 57:359-364. Nov.1950. 10 G79J

27747 ZÜRN, F. Bekämpfung von unkrautern auf alpen und bergwiesen. *Auf der Alpe* 1950:94-95. Dec. 1950. 18 Au3

#### MISCELLANEOUS ECONOMIC PLANTS (Drug, Dye, Rubber, Etc.)

27748 BAGGE, H. Experiments with opium poppies 1941-1947. (In Danish.) *Tidsskr. f. Planteavl* 54:81-92. 1950. 11 T439

27749 BEERS, W. F. J. VAN. Notes on the growing conditions for cacao in Indonesia. *Indonesia. Gen. Agr. Res. Sta. Contrib.* 101,21 p. Jan.1950. 109.5 Ea73

27750 BENNETT, H. *Alchornea cordifolia* leaves and bark from Nigeria. *Colon. Plant & Anim. Prod.* 1: 132-134. Apr./June 1950. 472 C71  
For dyes.

27751 BERWICK, E. J. H. Further investigations into the growing of cocoa in Malaya. *Malayan Agr. J.* 33:194-208. Oct.1950. 22.5 F312

27752 BISWAS, K. The prospects of India rubber and Para rubber in India. *Indian J. Agr. Sci.* 19:413-434. Sept.1949. 22 Ag831

27753 BOUQUET, A., and KERHARO, J. Les végétaux condiments de l'Afrique du Nord dans l'alimentation, la thérapeutique et la magie. *Acta Trop.* 7:315-356. 1950. 475 Ac8

English summary.

27754 BRIERLEY, E. There's Rosemary. *My Gard.* 42(205):91-92. Jan.1951. 80 M995

27755 BUONAIUTO, G. The future of licorice in the transformation of the Sila. (In Italian.) *Mezzogiorno Agr.* 6(49):1. Dec.16/23,1950. 16 M57  
Culture.

27756 CALZECCHI-ONESTI, A. The borage. (In Italian.) *Italia Agr.* 87:735-737. Dec.1950. 16 It1  
Borago officinalis.

27757 CARVALHO, A. Coffee varieties and their improvement. (In Portuguese.) *São Paulo. Supt. dos Serv. do Café. B.* 25:780-786. (Concl.) Oct.1950. 68.29 Sa63

27758 CASTRO A., M. F. Resultados obtenidos en el analisis estadístico de los rendimientos para la selección de las mejores plantas. *Cent. Nac. de Invest. de Café. Bibliot. B. Inform.* 12:28-36. Ref. Oct.1950. 68.29 C332

Coffee.

27759 CHEVALIER, A. Sur une plante condimentaire cultivée par les Sahariens et les Noirs en Afrique centrale: l'aneth ou dill. (*Anethum graveolens* L.). *Rev. Internat. de Bot. Appl. d'Agr. Trop.* 30:527-528. Sept./Oct.1950. 26 R323



- 27760 CLAUS, F. Le vanillier. Cour. Hort. 12:670-671. Dec.1950. 80 C834
- 27761 COCOA, CHOCOLATE AND CONFECTIONERY ALLIANCE. Report of a conference on cocoa held at Grosvenor House, London, W.1 on 13th and 14th September, 1950. London, 1950. 70 p. 68.39 In82
- 27762 COTINI, A. Honey plants: *Stachys annua*. (In Italian.) Apic. d'Italia 17:136. June 1950. 424.8 Ap372
- 27763 CRAMER, P. J. S. High yielding rubber material. Planter 26:488-491. Nov.1950. 78.8 P69 Hevea.
- 27764 DAVYS-JONES, G. The dame's delight. Welsh Bee J. 5:178-181. Dec.1950. 424.8 W462 Honey plants.
- 27765 DELHAYE, R. J. Problemes actuels posés par la sélection du pyrethre au Kivu. (Sum.) Cong. Internat. des Indus. Agr. Rap. 8(1):486. 1950. 388 C765
- 27766 DITIAKIN, F. T. Collection of honey plant seeds. (In Russian.) Pchelovodstvo 7:411-414. Aug.1950 424.8 P295  
Of trees and shrubs chiefly.
- 27767 EDWARDS, N. Cocoa-growing developments in Nigeria, disease control, rehabilitation and new plantings. Cocoa, Choc. & Confectionery Alliance. Rpt. Conf. Cocoa 1950:18-19. 68.39 In82
- 27768 ELGUETA, M. Un programa de selección para *Coffea arabica*. Turrialba 1:37-43. Ref. July 1950. 8 T86  
English summary.
- 27769 EVANS, H. Report on cocoa investigations in progress in Trinidad with a summary of results achieved to date. Cocoa, Choc. & Confectionery Alliance. Rpt. Conf. Cocoa 1950:20-31. 68.39 In82
- 27770 GAZTAMBIDE ARRILLAGA, C. Observaciones de un viaje a la zona cafetalera de Costa Rica. Rev. del Café 6(7):17. Dec.1950. 8 R3295
- 27771 GEORTAY, G. Possibilités d'amélioration qualitative du *Coffea canephora* (robusta). (Sum.) Cong. Internat. des Indus. Agr. Rap. 8(1):502. 1950. 388 C765
- 27772 GRASSMANN, W., and others. Anbauversuche mit birschkolbensumach. VI-VII. Leder 1:214-218, 237-238. Ref. Sept.15-Oct.15, 1950. 303.8 L492  
B. Huber, W. Kuntara, and O. Endisch, joint authors.
- 27773 GRIEBEL, H. Imker, verbreitet die wildwachsenden bienenpflanzen! Niederöstr. Imker 1:266-268. Oct.1950. 424.8 N55
- 27774 HENDRICKX, F. L. La culture de l'Aleurites au Nyassaland. (Sum.) Cong. Internat. des Indus. Agr. Rap. 8(1):504. 1950. 383 C765
- 27775 HOREL, J. Moravian Coriander. (In Czech.) Českoslov. Akad. Zeměděl. Věst. 24:556-558. Dec.1950. 19.5 C332
- 27776 INDIAN COFFEE BOARD. Ninth annual report, 1948-49, v. 1. Bangalore, 1950. 109 p. 68.29 In23
- 27777 IURTSOVSKII, M., and KARAKUL', A. P. Figs as a source of nectar. (In Russian.) Pchelovodstvo 7:420-421. Aug.1950. 424.8 P295
- 27778 JONASSON, O. Potential areas of cacao cultivation in South America: a review. Econ. Geog. 27:90-93. Ref. Jan.1951. 278.8 Ec7
- 27779 JONES, M. A., and ARRILLAGA, N. G. The production of lemon-grass oil. P. R. Fed. Expt. Sta. B. 50,41 p. Ref. Nov.1950. 1 Ex65  
Lemongrass culture and processing.
- 27780 KOSHCHEEV, A. L. Simple method for the propagation of *Euonymus verrucosus*. (In Russian.) Akad. Nauk SSSR. Dok. 74:627-630. Sept.21, 1950. 511 P444A
- 27781 KULIEV, A. M. The feed supply base in Azerbaidzhan beekeeping is expanding. (In Russian.) Pchelovodstvo 7:419. Aug.1950. 424.8 P295  
Honey plants.
- 27782 LEDESMA, N. R. El toro-po o pata de vaca. Chacra 21(242):24-25. Jan.1951. 9 C34  
*Bauhinia candicans*.
- 27783 LEGRAND, D. Mirtaceas de fruto comestible (sub-familia Myrtoideae) indígenas o cultivables en el Uruguay. Asoc. de Ingen. Agron. Rev. 21(88):20-24. Mar.1950. 290.9 As73
- 27784 LIENART, J. M. La culture du quinquina. (Sum.) Cong. Internat. des Indus. Agr. Rap. 8(1):502-503. 1950. 388 C765
- 27785 MCCOMBS, L. Grandma's jelly plant [*Hibiscus sabbadilla*]. Home Gard. 16(4):69. Oct.1950. 80 H766
- 27786 MAHMUD, K. A. Cultivation of pan (Piper beetle L.) in Amravati District of Madhya Pradesh. Nagpur Agr. Col. Mag. 25:23-25. June/Sept.1950. 107.5 N132
- 27787 MEYER, S. Peppermint and cultural tests in the Faenza Commune. (In Italian.) Romagna Agr. e Zootec. 35(12):6-7. Aug.1950. 16 R66  
*Mentha piperita*.
- 27788 MONTSERIN, B. G. Subsidized rehabilitation with clonal cocoa. Cocoa, Choc. & Confectionery Alliance. Rpt. Conf. Cocoa 1950:31-37. 68.39 In82  
Trinidad.
- 27789 MORELL, M. Sobre cultivo de café, plan de rehabilitación y precio. Rev. del Café 6(7):11,18. Dec.1950. 8 R3295  
Puerto Rico.
- 27790 MORRIS, R. C. *Grevillea Robusta compacta*. Indian Coffee Bd. Mon. B. 14:12. Jan.1950. 68.29 In23M  
As a shade tree for coffee.
- 27791 MUSSIGER, W. Wird die sonnenblume nicht befohlen? Deut. Bienenztg. 5:216-217. Dec.1, 1950, 424.8 D488
- 27792 NOSTI NAVA, J. L'exploitation du cacao et les utilisations secondaires des cacaoyers. (Sum.) Cong. Internat. des Indus. Agr. Rap. 8(1):502. 1950. 388 C765
- 27793 OVERSACQ, J. Les plantes qui guérissent: le houblon. Cour. Hort. 12:666. Dec.1950. 80 C834
- 27794 PASSOS, H. DE G. Coffee: fertilizers, replanting, and soil conservation. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 25:788-796. Oct.1950. 68.29 Sa63
- 27795 PERKEBUNAN, D. The development of plantation rubber culture in Indonesia. III. (In Dutch.) Econ. Weekbl. v. Indonesië 16:895-898, 900-901. Nov.18, 1950. 280.8 Ec76  
Hevea.
- 27796 POUPART, Y. Possibilités de développement de la culture du caféier en A. O. F. (Sum.) Agron. Trop. 5:648. Nov./Dec.1950. 26 Ag86
- 27797 RAYNER, R. W. The results of the multiple stem questionnaire. 2. Coffee Bd. Kenya. Mon. B. 15:439-441. Oct.1950. 68.29 C652
- 27798 RIBEIRO, D. J. Camphor production from *Ocimum kilimandscharicum* Guerke. J. Sci. & Indus. Res. 9B:281-282. Nov.1950. 475 J82
- 27799 ROCASOLANO, C. El árbol de la quina en España. Cult. Mod. 33:370-371. Oct.1950. 15 C89
- 27800 ROSENQUIST, E. A. Cocoa selection and breeding in Malaya. Malayan Agr. J. 33:181-193. Ref. Oct.1950. 22.5 F312
- 27801 RUBICZEK, H. Nektarien. Niederöstr. Imker 1:244-245. Sept.1950. 424.8 N55
- 27802 SADOWNIK. Actinidia—eine neue obstgattung. Berufsgärtner 3(11):1-2. Nov.1950. 80 B463
- 27803 SCHOOREL, A. F. De landbouwkundige grondslag van snoei en pluk bij Assamthee [The influence of climatic conditions on pruning and plucking in the districts of production of Assam tea]. Wageningen, Veenman & Zonen, 1950. 155 p. 68.1 Sch6
- 27804 SCHWEIZER, J. Recommended Hevea plant material 1950/51. (In Dutch.) Bergcultures 19:417, 419, 421. Nov.16, 1950. 22.5 B45
- 27805 SKUTCH, A. F. Edible flowers. Nat. Mag. 44:92-93, 108. Feb.1951. 409.6 N214  
*Erythrina rubrinervia* and *Gliricidia septum*.
- 27806 SOUZA, R. Toxicological study on the china-berry plant (*Melia azedarach*). (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arq. 2:123-128. 1949. 41.9 M662  
English summary.  
Non-toxic to domestic animals.
- 27807 STEYN, D. G. Recent investigations into the toxicity of known and unknown poisonous plants in the Union of South Africa. XVI. Onderstepoort J. Vet. Sci. & Anim. Indus. 24:53-56. Apr.1950. 41.8 On1
- 27808 SUOMELA, H. On the possibilities of growing *Taraxacum koksaghyz* in Finland on basis of the investigations conducted in the years 1943-1948. Finland. Maatalouden Kokeiluminnan Keskusvaliokunta. Valtion Maatalouskoet. Julkaisu. 132, 133 p. Ref. 1950. 20 F495
- 27809 THOMPSON, A. The introduction of Amelonado cocoa from the Gold Coast to Malaya. Malayan Agr. J. 33:209-224. Oct.1950. 22.5 F312



- 27810 VAN HORN, D. L., and DOMINGO, W. E. Comparison of seed and vegetative propagation methods for red squill [*Urginea maritima*]. *Econ. Bot.* 4:350-353. Oct./Dec.1950. 450 Ec7
- 27811 VILANOVA M., T. Caficultura. Cent. Nac. de Agron. C. Agr. 20,4 p. Sept.1950. 8 Sa54C
- 27812 VOELCKER, O. J. West Africa Cocoa Research Institute, 1944-49. Cocoa, Choc. & Confectionery Alliance. Rpt. Conf. Cocoa 1950:61-70. 68.39 In82
- 27813 VOLLEMA, J. S. Hevea plant material from the test garden Tjomas, Pewaja and Parung Pandjang. (In Dutch.) *Bergcultures* 19:421,423. Nov.16,1950. 22.5 B45
- 27814 WEST, J. West Africa Cacao Research Institute, 1944-49. Cocoa, Choc. & Confectionery Alliance. Rpt. Conf. Cocoa 1950:2-5. 68.39 In82

## SOILS AND FERTILIZERS

### SOIL SCIENCE

- 27815 AGARWAL, R. R., and MUKERJI, P. Studies on Bundelkhand soils of United Provinces. III. Pedochemical characteristics of the black soils of the plains. *Indian J. Agr. Sci.* 19:31-39. Mar.1949. 22 Ag83I
- 27816 BOGATYREV, K. P. Discussion of D. G. Vilenskii's works. (In Russian.) *Pochvovedenie* 1950: 698-701. Nov.1950. 57.8 P34
- On soil science.
- 27817 DERBAL, Z. Quelques résultats d'analyses de terres au centre expérimental d'élevage de Sotuba (Soudan). *French West Africa. Insp. Gén. de l'Elevage. B. des Serv. de l'Elevage et des Indus. Anim.* 3:47-48. Jan./Mar.1950. 41.9 F88B
- 27818 HESTER, J. B. Know your soil: VI. Elktion sandy loam. *Better Crops Plant Food* 34(10):39-41. Dec. 1950. 6 B46
- 27819 LAPLANTE, A., and ROUGERIE, G. Étude pédologique du bassin français de la Bia. *Inst. Franç. d'Afrique Noire. B.* 12:883-904. Oct.1950. 515 D14
- 27820 MOORE, W. G. The soil we live on. London, Methuen, 1950. 76 p. (Life and Sci.) 56 M78
- 27821 SPANNAGEL, G. Grundsätzliches zur Görbling-schen spatendiagnose. *Nachr. f. Beratung u. Ausbild. in der Landwirt.* 3:124-128. Nov.1950. 18 N11
- 27822 WHITE, H. C. The story of two soil samples. *Amer. Acad. Appl. Nutr. Mon. Newslet. J.* 4:12-13. Jan. 1951. 389.9 Am352

### Soil Physics

- 27823 ALLBERRY, E. C. On the capillary forces in an idealized soil. *J. Agr. Sci. [London]* 40:134-142. Jan./Apr.1950. 10 J822
- 27824 ANIOL, R. Der bodenfrost-meldedienst in der US-Zone. *Umschau* 50:715-716. Dec.1,1950. 474 Um7
- 27825 ASGHAR, A. G., DHAWAN, C. L., and BHOLA, K. D. Preliminary studies on the establishment of colour standards in relation to soil constants. *Indian J. Agr. Sci.* 19:21-29. Ref. Mar.1949. 22 Ag83I
- 27826 BLOODWORTH, M. E., and COWLEY, W. R. The use of undisturbed soil cores for permeability and infiltration determinations. *Agron. J.* 43:4-9. Jan.1951. 4 Am34P
- 27827 COOK, R. L. Structure and sandy soils. *J. Soil & Water Conserv.* 6:31-33,37,42. Jan.1951. 56.8 J822
- 27828 DREIBELBIS, F. R., and NAIR, M. S. Comparison of effects of disking and plowing on some properties of soil. *Agron. J.* 43:25-33. Ref. Jan.1951. 4 Am34P
- 27829 FRIPIAT, J. J. Quelques aperçus sur la physique des sols tropicaux. *Cong. Internatl. des Indus. Agr. Rap.* 8(1):51-56. 1950. 388 C765
- 27830 GT. BRIT. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. ROAD RESEARCH LABORATORY. The compaction of soil. London, Stationery Off., 1950. 46 p. (Its Road Res. Tech. Paper No. 17) 290 G794C
- 27831 HUBBELL, D. S. The relation of water-stable aggregation to soil texture. *Agron. J.* 43:33-37. Jan. 1951. 4 Am34P

- 27832 ISHIBASHI, Y. The seasonal variation of water content in the farm soil. (In Japanese.) *Utsunomiya U. Col. Agr. B.* 1:129-142. Feb.1950. 107.6 Ut7B
- English summary.
- 27833 MANDEL, J. Sur la consolidation des sols. *Paris. Acad. des Sci. Compt. Rend.* 232:209-211. Jan.15, 1951. 505 P21
- 27834 MILLER, M. P. Soil structure and water penetration. *Calif. Citrog.* 36:160-162. Feb.1951. 80 C125
- 27835 PENDLETON, R. L., and NICKERSON, D. Soil colors and special Munsell Soil Color Charts. *Soil Sci.* 71:35-43. Ref. Jan.1951. 56.8 So3
- 27836 POL'SKII, M. N. The porosity of soil aggregates, translated by P. A. Gibson. n.d. 13 p. Translation 6391.
- Translated from *Pedology (Pochvovedenie) USSR.* 4:212-223. Apr.1949.
- 27837 RUSSELL, E. W. Soil structure; its importance in crop production. *World Crops* 3:47-51. Feb.1951. 281.8 W892
- 27838 SLATER, C. S., and HOPP, H. Winter decline of soil structure in clean-tilled soils. *Agron. J.* 43:1-4. Ref. Jan.1951. 4 Am34P
- 27839 SLATER, C. S. Winter aspects of soil structure. *J. Soil & Water Conserv.* 6:38-40,42. Jan.1951. 56.8 J822
- 27840 TITTA, G. L'eau et les matières organiques dans les sols agricoles. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):494. 1950. 388 C765
- 27841 VAN BAVEL, C. H. M. Soil aggregate stability as affected by sterilization with ethylene oxide and heat. *Plant & Soil* 2:395-404. Dec.1950. 450 P696
- 27842 WEAVER, H. A., and JAMISON, C. V. Effects of moisture on tractor tire compaction of soil. *Soil Sci.* 71:15-23. Ref. Jan.1951. 56.8 So3
- 27843 YONEDA, S. Studies on the physical properties of saline alkali soils and its reclamation. (In Japanese.) *Utsunomiya U. Col. Agr. B.* 1:161-177. Ref. Feb.1950. 107.6 Ut7B
- English summary.

### Soil Chemistry and Mineralogy

- 27844 BARNES, T. W. The formation of nitrates in soil following various crop rotations. *J. Agr. Sci. [London]* 40:166-168. Jan./Apr.1950. 10 J822
- 27845 BOTTINI, E. On nutritive micro-elements in the soil. III. Vegetation tests in Mitscherlich's pots with boron, copper and cobalt. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:895-917. Ref. 1950. 16 An76
- English summary.
- 27846 BRODINE, M. New Jersey soil testing plan. *Amer. Fert. & Allied Chem.* 114(1):26-27. Jan.1951. 57.8 Am3
- 27847 BURRIEL, F., and HERNANDO, V. El fosforo en los suelos españoles. IV. *An. de Edafologia y Fisiol. Veg.* 9:129-148. Ref. Mar./Apr.1950. 506 Sp12
- English summary.
- 27848 BURRIEL, F., and GUERRA, A. Sobre la determinación del magnesio en los suelos. *An. de Edafologia y Fisiol. Veg.* 9:187-193. Ref. Mar./Apr.1950. 506 Sp12
- English summary.
- 27849 CAMPANILE, S. Rapid determination of exchangeable potassium in the soil by sedimentic process. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:919-929. Ref. 1950. 16 An76
- English summary.
- 27850 CHAVES, R. Fijación de fosfatos en el suelo. *Cent. Nac. de Invest. de Cafe. Bibliot. B. Inform.* 12: 36-40. Ref. Oct.1950. 68.29 C332
- 27851 CHESTER, K. S. How centralized soil testing service will insure complete mineral soil fertility. *Amer. Fert. & Allied Chem.* 113(13):9-11,26,28. Jan. 1951. 57.8 Am3
- 27852 CHOKKANNA, N. G. Nitrogen, phosphate and potash status of some coffee soils of South India and manuring of coffee. *Planters' Chron.* 45:563-569. Ref. Nov.1,1950. 22 P693
- 27853 COTTENIE, A. H. La détermination colorimétrique rapide du magnésium dans le sol et les tissus végétaux. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1): 491. 1950. 388 C765



- 27854 FULLER, W. H., and MCGEORGE, W. T. Phosphates in calcareous Arizona soils. II. Organic phosphorus content. *Soil Sci.* 71:45-49. Jan.1951. 56.8 So3
- 27855 GONZALEZ GARCIA, F. Contribución al estudio de las propiedades de los silicatos del grupo de la montmorillonita. *An. de Edafología y Fisiol. Veg.* 9: 149-185. Ref. Mar./Apr.1950. 506 Sp12  
English summary.
- 27856 HENDE, A. VAN DEN. Essais sur des methodes nouvelles pour la recherche des éléments déficients dans le sol. (Sum.) *Cong. Internat. des Indus. Agr. Rap.* 8(1):490. 1950. 388 C765
- 27857 JAIN, L. C. Effect of salts on the physical properties of soils. *J. Sci. & Indus. Res.* 9B:301-303. Dec.1950. 475 J82
- 27858 JEWITT, T. N. Field nitrates in Gezira soil. *J. Agr. Sci. [London]* 40:160-165. Ref. Jan./Apr.1950. 10 J822
- 27859 JONGHE, P. DE. Une methode colorimetrique de dosage du manganese et ses applications aux analyses des sols et des plantes. (Sum.) *Cong. Internat. des Indus. Agr. Rap.* 8(1):491. 1950. 388 C765
- 27860 JOSHI, R. H. Some typical chemical characters of the important soils of Madhya Pradesh. *Nagpur Agr. Col. Mag.* 25:38-46. June/Sept.1950. 107.5 N132
- 27861 KHAN, A. D. Saline and alkali soils of U. P.; preliminary note on the nature and improvement of such soils of the Indo-gangetic alluvium. *Agr. & Anim. Husb.* 1(2):5-9. Feb./Mar.1950. 22 Ag86
- 27862 KHAN, D. V. Absorption of organic matter by minerals in the soil. (In Russian.) *Pochvovedenie* 1950: 673-680. Nov.1950. 57.8 P34
- 27863 KING, N. J. Soils investigations in the sugarcane producing areas of Bundaberg. *Queensland J. Agr. Sci.* 6:141-176. Sept.1949. 23 Q37  
Chemical and physical properties.
- 27864 KOVDA, V. A. On the movement and accumulation of silica in salinised soils, translated by M. Slade. n.d. 26 p. Ref. Translation 6388.  
Translated from Dokuchaev Soil Institute 22(1):3-27. 1940.
- 27865 LANDIS, C. C. Practical results from soil analysis. *New Agr.* 33(4):6-7. Jan.1951. 66.8 Su32
- 27866 LEHR, J. J. Differences in the recovery of nitrogen from ammoniacal and nitrate sources in the reclaimed polders of the Zuyder Zee. *Plant & Soil* 2:345-358. Ref. Dec.1950. 450 P696
- 27867 MARTIN, J. P., and CHAPMAN, H. D. Volatilization of ammonia from surface-fertilized soils. *Soil Sci.* 71:25-34. Jan.1951. 56.8 So3  
Loss of nitrogen from citrus soils.
- 27868 MOODIE, C. D., PINCK, L. A., and ALLISON, F. E. The hypodite method for studying the nature of soil organic matter. II-III. *Soil Sci.* 71:51-75. Ref. Jan. 1951. 56.8 So3  
II, Application to the organic matter and organic matter fractions of different soils, by C. D. Moodie; III, Influence of green manures on the release of native soil carbon, by L. A. Pinck and F. E. Allison.
- 27869 NICHOLAS, D. J. D. Use of *Aspergillus niger* for determining magnesium, copper, zinc and molybdenum in soils. *J. Sci. Food & Agr.* 1:339-344. Ref. Nov. 1950. 382 So12
- 27870 NYS, P. F. DE. Rapid soil analysis. (In Flemish.) *Cult. en Handel* 16:549-550. Sept.1950. 80 C892
- 27871 OWEN, O., ROGERS, D. W., and WINSOR, G. W. The nitrogen status of soils. I-II. *J. Agr. Sci. [London]* 40:185-197. Jan./Apr.1950. 10 J822  
I, The nitrification of some nitrogenous fertilizers, by O. Owen, D. W. Rogers, and G. W. Winsor; II, The effect of levels of application on the nitrification of some nitrogenous fertilizers, by O. Owen and G. W. Winsor.
- 27872 VERMAAT, J. G. Some notes on the nitrogen economy of tropical soils. (In Dutch.) *Bergcultures* 19: 437,439,441. Dec.1,1950. 22.5 B45  
English summary.
- 27873 WEAR, J. I., and WHITE, J. L. Potassium fixation in clay minerals as related to crystal structure. *Soil Sci.* 71:1-14. Ref. Jan.1951. 56.8 So3
- 27874 WHITTLES, C. L., and LITTLE, R. C. A colorimetric method for the determination of potassium and its application to the analysis of soil extracts. *J. Sci. Food & Agr.* 1:323-326. Ref. Nov.1950. 382 So12
- 27875 WOODWARD, R. O. Taking soil samples. *Okla. Agr. Col. Ext. C.* 513,4 p. n.d. 275.29 Ok41C
- 27876 WORMLEY, G. W. Soil testing, basic step in Iowa farming. *Crops & Soils* 3(5):16-17. Feb.1951. 6 W55

## Soil Biology

- 27877 CELINO, M. S. Influence of phosphorus on nodulation and growth of legumes. *Soil Sci. Soc. Philippines.* J. 2:229-237. Ref. Fourth Q.1950. 56.9 So35
- 27878 DOERELL, E. C. Was sagen regenwürmer zur mineraldüngung? *Deut. Landwirt. Presse* 73(23):3-4. Nov.4,1950. 18 D482
- 27879 DUCHE, J. La biologie des sols. Paris. Presses Universitaires de France,1950. 128 p. ("Que Sais-je?" Le point des Connaissances Actuelles, No. 399) 56.5 D85
- 27880 GARRARD, E. H., and JORDAN, D. C. Does parasitism exist among the legume nodule bacteria? *Agr. Inst. Rev.* 6:14-16. Jan.1951. 7 Ag8
- 27881 GRIGOR'eva, T. G. Role of vegetative cover in the formation of soil fauna. (In Russian.) *Pochvovedenie* 1950:681-686. Ref. Nov.1950. 57.8 P34
- 27882 KONONOVA, M. M. On the nature of the cycles of accumulation and decomposition of organic substances in the grassfield crop rotations under various soil and climatic conditions. (In Russian.) *Pochvovedenie* 1950:656-672. Ref. Nov.1950. 57.8 P34
- 27883 KÜSTER, E. Untersuchungen über die bildung und zersetzung von humusstoffen durch mikroorganismen. *Arch. f. Mikrobiol.* 15:1-12. Ref. 1950. 442.8 Ar26
- 27884 MCGAHEN, J. W. Soil amendments in relation to the Actinomycete population and the antibiotic index of sugar-cane soil. (Abs.) *Phytopathology* 41:25. Jan. 1951. 464.8 P56
- 27885 MCKNIGHT, T. Non-symbiotic nitrogen-fixing organisms in Queensland soils. *Queensland J. Agr. Sci.* 6:177-195. Ref. Sept.1949. 23 Q37
- 27886 MEHTA, P. R., and SINGH, K. Bigger fodder yields from inoculated seeds of berseem. *Agr. & Anim. Husb.* 1(4):11-13. Sept.1950. 22 Ag86
- 27887 OLIVE, F. R. El nitrógeno del aire es básico en la agricultura. *Cent. Nac. de Agron. C. Agr.* 25,4 p. Oct.1950. 8 Sa54C
- 27888 POCHON, J., and CHALVIGNAC, M. A. Une espèce bactérienne nouvelle isolée du sol: *Endosporus filamentosus* n. sp. *Acad. des Sci. Compt. Rend.* 232:123-125. Jan.3,1951. 505 P21
- 27889 SALOMON, M. Decomposition of wood chips in soil. *Noeast. Wood Util. Council.* B. 33:81-82. Jan. 1951. 99.9 N819
- 27890 STEPHENSON, R. E. Micro-organisms in soil are little understood. *Better Fruit* 45(8):27-29,31-32. Feb.1951. 80 B46
- 27891 STESSEL, G. J. Methods of selecting soil microorganisms that produce antibiotics active against plant pathogens. (Abs.) *Phytopathology* 41:33. Jan.1951. 464.8 P56
- 27892 THORNTON, H. G., and KLECZKOWSKI, J. Use of antisera to identify nodules produced by the inoculation of legumes in the field. *Nature [London]* 166:1118-1119. Dec.30,1950. 472 N21

## Soil-Plant-Animal Relationships

- 27893 BEESON, K. C., and MATRONE, G. The nutrient element content of native forages in relation to land forms and soil types in the North Carolina Coastal Plain. In *Symposium on Copper Metabolism*, Johns Hopkins University, 1950. *Copper metabolism*, p.370-398. Ref. Baltimore, Johns Hopkins Press,1950. 386.2 Sy62  
Includes discussion.
- 27894 BROMFIELD, L. Sources of fundamental nutrition. In *National Dairy Products Corporation. The role of research in the conservation of our nutritional resources*, p.51-68. New York,1950. 389 N2196  
Soil management in relation to nutrition.
- 27895 CHATELIER, P. A. Life from underground atoms. *Green Thumb [St. Petersburg]* 1(2):19-23,36. Dec.1950. 80 G822



27896 DAVIS, G. K. The influence of copper on the metabolism of phosphorus and molybdenum. In Symposium on Copper Metabolism, Johns Hopkins University, 1950. Copper metabolism, p.216-229. Baltimore, Johns Hopkins Press, 1950. 386.2 Sy62

Includes discussion.

Studies with cattle on pastures.

27897 HAUN, T. H. Let's think it over; a medical view of agriculture. New Agr. 33(4):12. Jan. 1951. 65.8 Su32

Soil-plant-animal relations.

27898 MAHONEY, C. H. Do chemical fertilizers affect nutritive values? 2. Food Packer 32:32-33,44,46, 48. Ref. Jan. 1951. 286.83 C165

27899 OSBORN, F. Intercommunication between the scientific specialties. In National Dairy Products Corporation. The role of research in the conservation of our nutritional resources, p.31-42. New York, 1950. 389 N2196

Soils and the nutritive value of food.

27900 PETERSEN, N. Richtige fütterung düngt den boden. Deut. Landwirt. Presse 73(22):7. Oct. 21, 1950. 18 D482

#### Soil Genesis, Formation, Classification, and Mapping

27901 CANADA. EXPERIMENTAL FARMS. Report of the New Brunswick soil survey, 3. Fredericton, 1950. 106 p. 56.9 C163R

27902 DEUEL, H. Die tone des bodens. Schweiz. Landwirt. Monatsh. 28:392-422. Ref. Dec. 20, 1950. 17 Sch93

27903 EGOROV, V. V. Seashore Solonchaks on marshy terraces. (In Russian.) Akad. Nauk SSSR. Dok. 74:599-602. Sept. 21, 1950. 511 P444A

27904 KUBIENA, W. Para la terminología actual de la denominación de horizontes en el perfil del suelo. An. de Edafología y Fisiol. Veg. 9:117-128. Ref. Mar./Apr. 1950. 506 Sp12

27905 LAJOIE, P., and STOBBE, P. Soil survey of Soulanges and Vaudreuil counties in the Province of Quebec. Ottawa, Cloutier, 1950. 87 p. 56.22 L14

27906 MEDINA, A. Morfología y suelos de la Guinea Continental Española. (Extr.) An. de Edafología y Fisiol. Veg. 9:211-213. Mar./Apr. 1950. 506 Sp12

27907 SEMB, G. Jorda pa Forsøksgrunden Holt, Tromsøya, Troms fylke. The soils of Holt Experiment Station, Tromsøya, Troms County. Norges Landbrhøgsk. Meld. 30:207-290. Ref. 1950. 104 N762M

English summary.

27908 STRAATMANS, W., and BARRAU, J. Premières observations sur les sols de la Nouvelle-Calédonie. Rev. Agr. de la Nouvelle-Calédonie (n.s.) 1(9/10): 7-12. Sept./Oct. 1950. 25 R322

27909 VEENENBOS, J. S. De bodemgesteldheid van het gebied tussen Lemmer en Blokzijl in het randgebied van de Noordoost Bolder. Soil conditions of the area between Lemmer and Blokzijl in the border-area of the Noordoost Polder. 's-Gravenhage, Staatsdrukkertij, 1950. 162 p. 56 24 V51

Thesis: Landbouwhogeschool, Wageningen.

#### SOIL MANAGEMENT

27910 ASSOCIAZIONE NAZIONALE DELLE BONIFICHE, DELLE IRRIGAZIONI E DEI MIGLIORAMENTI FONDARI. Trasformazione fondiaria nel Mezzogiorno e altre aree depresse [Reclamation in the South and other depressed areas]. Assoc. Naz. delle Bonifiche, Irrig. e Miglioramenti Fondiari. B. Mens. 11(sup.), 16 p. 1950. 55.9 As72

27911 BARTON, S. H. Organic victory in the orange grove. Health & Soil 1950:33-34. Winter 1950. 56.8 H34

27912 BAYER, G. Organische bodenkultur. Nat. u. Nahr. 4(17/18):13. Sept. 1950. 80 N218

27913 BECKER, C. S. Feeding the soil. Land 9:543-546. Winter 1950/51. 279.8 L22

Soil improvement and erosion control by planting.

27914 BRADFIELD, R. Practical techniques for improving soil structure. 2. West. Grower & Shipper 22(3): 19,21,23,32-34. Feb. 1951. 280.38 W52

Management.

27915 CHAMPEVAL, A. Restauration économique des sols. Voix des Colons 33(1591):1. (Cont.) Jan. 15, 1951. 24 V85

27916 DONNELLY, M. Five systems of citrus soil management. Calif. Citrog. 36:138,158-159. Feb. 1951. 80 C125

Also in Citrus Leaves 31(2):12-13. Feb. 1951. 80 C492

27917 FEDTKE. Die ungerechte Behandlung des Sauerlandes durch die Bodenschätzung. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1479-1480. Oct. 26, 1950. 18 L2346

27918 FITZGERALD, O. A. Nitrogen can backfire. Utah Farmer 71:119,144. Feb. 15, 1951. 6 D45

Nitrogen application in relation to soil management.

27919 HUSTON, J. J. Reclamation of eroded arable lands in the Camden District. N. S. Wales. Soil Conserv. Serv. J. 6:203-208. Oct. 1950. 56.9 N472

27920 JACKSON, N. E. Water is not enough. Crg. Farmer 2, i.e. 3:44-49. Jan. 1951. 57.8 Or3

Maintenance of high organic content in soils while continuing intensive cultivation.

27921 LOPEZ, F. B. The soils of Antique Province: farm uses and management. Soil Sci. Soc. Philippines J. 2:255-260. Fourth Q. 1950. 56.9 So35

27922 MACFARLANE, W. K. Open cast coal sites; restoration work in Fife. Scot. Agr. 30:125-130. Winter 1950/51. 10 Sco82So

27923 MERENDI, A. The problem of the mountain and the new bill. (In Italian.) Italia Agr. 87:647-651. Nov. 1950. 16 It1

Reclamation.

27924 MISSIO, F. The Friulian wastelands and their agricultural utilization. (In Italian.) Agr. delle Venezie 4:368-383. Oct./Dec. 1950. 16 Ag862

Reclamation.

27925 NORTON, E. A. Watershed protection and increased production through soil and water conservation. Washington, U. S. Soil Conserv. Serv., 1951. 9 p. 1.96 Su7N

Presented at annual meeting of the Mississippi Valley Association, Feb. 13, 1951, St. Louis.

27926 PANNOCCHI, C. The reclamation of the calanques. (In Italian.) Gior. di Agr. 61:5. Jan. 7, 1951. 16 It1G

Use of explosives.

27927 POST, A. H. Soil and fertility factors in Montana agriculture. Mont. Farmer-Stockman 38(7):6-7. Dec. 1, 1950. 6 M764

27928 RAINERI, C. How the Chinese peasant manages and fertilizes his fields. (In Italian.) Agenzia Romana Note e Inform. Agr. 7:8-9. Jan. 27, 1951. 281.8 Ag3

27929 RAMON VILLANUA, S. Tierras salitrosas yermas. Cult. Mod. 33:408-410. Nov. 1950. 15 C89

Reclamation in Spain.

27930 REPP, G. Untersuchungen über die Kultivierung von salzböden. Bodenkultur 4:329-354. Ref. 1950. 19 B635

27931 WALKER, B. S. Stubble burning. N. S. Wales. Soil Conserv. Serv. J. 6:209-210. Oct. 1950. 56.9 N472

27932 WEIR, R. Co-operation in the flower garden. Health & Soil 1950:24-25. Winter 1950. 56.8 H34

Building of humus in the soil.

#### Soil Fertility

27933 AGARWAL, R. R. A review of soil work done in Uttar Pradesh with particular reference to crop production. Indian Farming 11:109-112. Mar. 1950. 22 In283

27934 AGUIRRE, R. 50 years of experience with fertilizer. (In Portuguese.) Soc. Rur. Bras. Rev. 30 (360):74-75. Nov. 1950. 9.2 B733

Research in Pennsylvania.

27935 ALBRECHT, W. A. Plenty of moisture, not enough soil fertility. Better Crops Plant Food 34(10):20, 41. Dec. 1950. 6 B46

27936 ALDRICH, D. G., and COONY, J. J. Phosphate seems to help; a progress report on the response of lemon trees to phosphate fertilization. Citrus Leaves 31:6-7,34-35. Jan. 1951. 80 C492

27937 ALDROVANDI, A. New fertilizers and correctives in sugar beet culture tests. (In Italian.) Indus. Sac. Ital. 43:289-293. Sept./Oct. 1950. 65.8 In23

27938 ALEXANDER, T. M. W. The case for peat. An economic source of true humus. Fruit-Grower 2872:62-63. Jan. 11, 1951. 80 F941

27939 ANDERSON, R. H. Lamar County [Texas] U.S.A. Crops & Soils 3(5):7-8. Feb. 1951. 6 W55

Use of fertilizers.



- 27940 AUDIDIER, L., and GARAUDEAUX, J. Les sels bruts de potasse dans la fumure de la betterave. *Potasse* 24:182-185. Dec.1950. 57.8 P84
- 27941 BAEYENS, J. La signification des normes chimiques du besoin en engrais des sols agricoles. *Cong. Internatl. des Indus. Agr. Rap.* 8(1):57-61. 1950. 388 C765
- 27942 BALDONI, R. Phosphate fertilizers. (In Italian.) *Romagna Agr. e Zootec.* 35(14):1. Oct.1950. 16 R66
- 27943 BALKS, R. Um die erhaltung der bodenfruchtbarkeit. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A: 1659-1660. Nov.30,1950. 18 L2346  
Fertilizer utilization.
- 27944 BEERS, Z. H., and BERGER, K. C. Phosphorus. *Successful Farming* 49(2):46,114-117. Feb.1951. 6 Sul2  
How and when to apply phosphorus fertilizers.
- 27945 BRODINE, A. M. Is this the coming thing? Fertilizers by prescription. *Amer. Feat. & Allied Chem.* 114(2):26-28,38. Feb.1951. 57.8 Am3
- 27946 CALZADA BENZA, J. Efectos del abonamiento en los cultivos de papa en Junín y Arequipa. *Mensajero Agr.* 50:9-11,51/52:15,30. (Cont.) June-July/Aug.1950. 9.8 M52
- 27947 CARBONA, F. Phosphate fertilizer for Brazilian soils. (In Portuguese.) *Lav. Arroz.* 4(46):31,33-35. Oct.1950. 59.8 L39
- 27948 CATALINA, L. El magnesio en agricultura. *Cult. Mod.* 33:416. Nov.1950. 15 C89  
As a fertilizer.
- 27949 CHAPMAN, C. J. Higher fertilizer applications recommended in Wisconsin. *Better Crops Plant Food* 34(10):10-12,48-49. Dec.1950. 6 B46
- 27950 CHAPMAN, C. J. Nitrogen fertilizer for more abundant crops. *Crops & Soils* 3(5):9-11,23. Feb.1951. 6 W55
- 27951 CHAPMAN, H. D., and FULLMER, F. Potassium and phosphorus; status of California citrus orchards as indicated by leaf analysis surveys. *Citrus Leaves* 31(2):10-11,36-39. Ref. Feb.1951. 80 C492
- 27952 CHEN, C. T., and CHANG, J. M. Preliminary report on fertilizer experiment of sugar cane in Taiwan. (In Chinese.) *J. Sugarcane Res.* 4:165-213. July 1950. 65.8 J822  
English summary.
- 27953 COLÓN, I. A. Superfosfato amoniacal. 1.3. *Ref. del Café* 6(5):7-8;(7):15. Oct./Dec.1950. 8 R3295  
Fertilizer.
- 27954 COOKE, G. W. Potato growing fertilizer placement experiments. *Power Farming Austral. & New Zeal.* 59(11):53,55. Nov.1950. 58.8 P87
- 27955 CURCIO, M. Fertilizing tobacco. V. (In Italian.) *Tabacco* 54:361-369. Nov./Dec.1950. 69.8 T115
- 27956 DEMORTIER, G., and others. Contribution à l'étude de l'alimentation azotée, phosphatée et potassique du peuplier. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):491-492. 1950. 388 C765  
J. Fouarge, E. Sacre, and A. Riga, joint authors.
- 27957 DEMORTIER, G., BONUS, M., and RIGA, A. Influence de la chaux et des amendements calcaires sur le développement de la betterave sucrière, au cours des premières semaines de sa croissance. *Inst. Belge pour l'Amélior. de la Betterave P.* 18(2):43-56. Mar./Apr. 1950. 66.9 In7  
English summary.
- 27958 DECKMANN, F. A. Kalkdüngung im forst. *Nat. u. Nahr.* 4(17/18):11-12. Sept.1950. 80 N218
- 27959 DRAGHETTI, A. L'évolution du concept de fertilité et la technique de la fumure. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):489-490. 1950. 388 C765  
In soils.
- 27960 EARLEY, D. Fertilizing cotton. *Tex. Farming & Citricult.* 27(7):12. Jan.1951. 80 T31
- 27961 EHRENBURG, P. Humuszerstörung undackerfruchtba. *Zucker* 3:527-533. Dec.15,1950. 65.8 Z82
- 27962 ELLISON, W. D. Fertility erosion. *Land* 9: 487-491. Winter 1950/51. 279.8 L22
- 27963 EVANS, T. A. Cover crops in grass seed production. *Gt. Brit. Min. Agr. Agriculture* 57:454-456. Jan. 1951. 10 G79J
- 27964 EYSTER, W. H. When vegetables feed; vegetables use soil nutrients in the later stages of their development. *Org. Gard.* 18:30-31. Jan.1951. 56.8 Or3
- 27965 FAULKNER, E. H. Land heals itself. *Org. Farmer* 2,1.e.3:18-21. (To be cont.) Jan.1951. 57.8 Or3
- 27966 FERTILISERS and plant nutrients. *Mfg. Chem.* 22:21-23. Ref. Jan.1951. 396.8 M31
- 27967 FRANCO ARMENDARIZ, A. Trébol "Hubam" como abono verde. *Agr. Lagunero* 4(45):14-17. Dec.25, 1950. 8 Ag824
- 27968 FRINGS, L. X. L'humiculture. V. Fruits et Primeurs de l'Afrique du Nord. *Ed. Marocaine* 20:400-403. Dec.1950. 80 F9482
- 27969 FULKERSON, R. S., WEIR, J. R., and MCROSTIE, G. P. The effect of some fertilizer carriers upon seven grass species. *Sci. Agr.* 31:32-38. Jan.1951. 7 Sci2
- 27970 FULLER, W. H., and others. Behavior of nitrogenous fertilizers in alkaline calcareous soils. I-II. *Ariz. Agr. Expt. Sta. Tech. B.* 120:451-467,471-500. Ref. Oct.-Dec.1950. 100 Ar4  
A. B. Caster, W. T. McGeorge, and W. P. Martin, joint authors.
- 27971 GARATTONI, E. Proper fertilizing of grapes. (In Italian.) *Spezia Agr.* 6:2. Jan.1,1951. 16 Sp3
- 27972 GAUL, L. Wie steht es mit der düngung der wiesen? *Bad. Landwirt. Wchnbl.* 117:880-882. Dec.23, 1950. 18 B142
- 27973 GISIGER, L. Die organische düngung des grünlandes. *Internatl. Grassland Cong. Rpt.* 5:18-39. Ref. 1949. 60.19 In85R  
English summary.  
Includes discussion.
- 27974 GIVRY, P. DE. La fumure de base des prairies en Bretagne. *Potasse* 24:191-192. Dec.1950. 57.8 P84
- 27975 GOBIET, A. Verflüssigte dünger für feld, garten und weinberg. *Tech. f. Bauern u. Gärt. Ausg. A* 2: 476-477. Aug.25,1950. 58.8 T223
- 27976 GOMES, P. Green manure. (In Portuguese.) *Brasil Açucareiro* 36:100-102. July 1950. 65.8 B73
- 27977 GOUIN, F. Ueber die rationelle düngung des hofiens. *Bas-Rhin. Agr.* 6:5-6. (To be cont.) Jan.6,1951. 14 B29
- 27978 GUSHCHIN, I. V. Application of fertilizers to winter crops. (In Russian.) *In Krasnokutskafá Gosudarstvennafa Seleksionnafa Stanfifa. Sbornik nauchnykh rabot za 1944-1948 gg.* p.78-89. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86  
Experiments with winter wheat.
- 27979 HAAS, A. R. C. Growth-response of lemon and orange trees to phosphate. *Calif. Citrog.* 36:137,166-167. Feb.1951. 80 C125
- 27980 HANTEN, H. Über die düngung im gartenbau. *Gartenbauwirtschaft [Wien]* 1950:249-251,261-262. (Cont.) Nov.10-25,1950. 80 G1936
- 27981 HARRISON, C. M. Nitrogen for dark green, fast growing pastures. *Hoards Dairyman* 96:33. Jan.10, 1951. 44.8 H85
- 27982 HAUER, E. Wie stellt man die humusgrundlage eines betriebes fest? *Pflug* 3:223-225. Nov.1950. 19 P48
- 27983 HAUSSER, K. Ergebnisse der neuesten aufnahme des Owingen forstdüngungsversuchs. *Allg. Forst- u. Jagdztg.* 122:23-27. 1950. 99.8 AL3
- 27984 HERRERA VASCONEZ, C. Las deficiencias en la producción bananera y su oportuna solución; importancia del nitrógeno y de los fertilizantes. *Manabí, Ecuador. Consorcio de Cent. Agr. B.* 12(63):37-39. July/Sept.1950. 9.5 M31
- 27985 HILLMAN, J. How much per acre? *Farmers Wk. [London]* 34(4):47. Jan.26,1951. 10 F2226  
Large-scale aerial top-dressing of hill and marginal land in Britain.
- 27986 HINKLE, D. A. Anhydrous ammonia for rice. *Ark. Farmer* 103(2):6. Feb.1951. 6 Ar42
- 27987 HOWARD, J. Feeding trees with nitrogen foliage sprays. *Amer. Fruit Grower* 71(2):24,43. Feb. 1951. 80 G85
- 27988 HUNT, R. Rich land for good tobacco. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 66:19,87. Jan.1951. 6 P945K
- 27989 KANNENBERG, H. Rohphosphat auf hochmoor u. sandheideböden verbilligt düngung. *Landwirtbl. Weser-Ems* 97:1033-1034. Dec.7,1950. 18 L2345
- 27990 KARNAUKHOV, B. G. Effect of fertilizers on arable and subsoil layers of Azov area chernozem. (In Russian.) *Sovet. Agron.* 8(10):43-49. Oct.1950. 20 So84



- 27991 KATALYMOV, M. V., and RIABOVA, S. I. Effect of liming on solubility of boron in the soil and its availability to plants. (In Russian.) Akad. Nauk SSSR. Dok. 74:561-564. Sept. 21, 1950. 511 P444A  
Experiments with red clover.
- 27992 KIKUCHI, M. Studies on the yield of some cereals planted together on soils of different grades in fertility and acidity. (In Japanese.) Utsunomiya U. Col. Agr. B. 1:15-21. Feb. 1950. 107.6 U77B  
English summary.
- 27993 KILLINGER, G. B. Spring fertilizer on pastures. Fla. Grower 59(2):23. Feb. 1951. 80 F6622
- 27994 KOSHEL'KOV, P. N. In regard to the neutralizing capacity of phosphate fertilizer. (In Russian.) Pochvovedenie 1950:687-697. Ref. Nov. 1950. 57.8 P34  
In decreasing soil acidity.
- 27995 KRONE, P. R. Gladiolus soils and fertilizers. New Eng. Gladiolus Soc. Gladiolus 26:99-108. 1951. 96.43 N44
- 27996 LAROSE, E., and LEGROS, R. Étude de l'influence de la fumure et de certains procédés culturaux sur le rendement et la qualité des tabacs belges. Rev. Internatl. des Tabacs 25:219-225. Dec. 1950. 69.8 R324
- 27997 LEENHEER, L. DE, and CAESTECKER, K. DE. La détermination de la production relative en betteraves sucrières par une nouvelle méthode rapide. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):489. 1950. 388 C765  
Soils.
- 27998 LEENHEER, L. DE, and SIMON, M. La production relative en betterave sucrière de différents types de sols marins. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):488. 1950. 388 C765
- 27999 LOWREY, G. W., OLSON, R. A., and DREIER, A. F. Commercial fertilizers for oats in Nebraska. Nebr. Agr. Expt. Sta. Outstate Testing C. 13,17 p. Dec. 1950. 100 N270
- 28000 LUNT, H. A. Wood chips as a soil amendment. Neost. Wood Util. Council. B. 33:83-89. Jan. 1951. 99.9 N819  
Includes discussion.
- 28001 MCCAIN, D. C. The fertilization of water-melons and cantaloupes. Crop Comments 4(3):1-2,4. Jan. 1951. 57.8 C88
- 28002 MAHMUD, K. A. Manurial requirements of pan (Piper betle L.) on morand soil in Madhya Pradesh. Nagpur Agr. Col. Mag. 25:13-17. June/Sept. 1950. 107.5 N132
- 28003 MAIER, E. A. "What is the answer" concerning available plant food. Sugar J. 13(8):12-13,23. Jan. 1951. 65.8 Su391
- 28004 MALAVOLTA, E. Effets du manque de soufre dans les cultures de tomates. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):493-494. 1950. 388 C765
- 28005 MARIMPIETRI, L. Reaction, calcium, and development of the olive. (In Italian.) Italia Agr. 87: 652-653. Nov. 1950. 16 It1  
Response of olives to soil calcium.
- 28006 MAURER, K. J. Bemerkungen zur bodenpflege im obstbau. Gartenjahr 6:5-6. Jan. 1951. 80 G1932
- 28007 MAXWELL, N. P., and KROTH, E. M. Nutritional studies on citrus at the Texas A. & M. College Experiment Station Substation 15. Rio Grande Val. Hort. Inst. Proc. 5:98-102. Ref. 1951. 81 L95
- 28008 MÉTIVIER, S. Bonnes et mauvaises fumures. Défense Agr. de la Beauce et du Perche 48:20-21. Jan. 20, 1951. 14 D36
- 28009 MISU, H. Hiriyogaku [The science of fertilizer]. V. 1, pt. 1. Tokyo, Asakara Shoten, 1950. 358 p. 57 M693H
- 28010 MORAIS, M. DE. Fertilizers and sugar cane. (In Portuguese.) Cong. Açucareiro Nac. An. 1:187-196. 1950. 65.9 C765  
Includes discussion.
- 28011 MORANI, V. Recent trends in fertilizing. (In Italian.) Italia Agr. 87:719-725. Dec. 1950. 16 It1
- 28012 MÜLLER, A. P. Ein Beitrag zur dynamik des bodens und dem problem seiner fruchtbarkeit. Deut. Landwirt. mit Mitt. der Deut. Landwirtgesell. 1:188-193. Dec. 1950. 18 D4822
- 28013 MÜLLER, J. Kallverb. auch bestätigt boden-untersuchungsergebnisse. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1524-1525. Nov. 2, 1950. 18 L2346
- 28014 NAÏDIN, P. G. Development of new methods in plant feeding. (In Russian.) Sovet. Agron. 8(10):30-42. Oct. 1950. 20 So84  
Chiefly on fertilizer application in the crop rotation.
- 28015 NELSON, J. H. Observations on the use of fertilizers in the Stockton area. (Condensed.) West. Grower & Shipper 22(3):28,37. Feb. 1951. 280.38 W52
- 28016 NEMEC, A. Hnojení lesních kultur. The fertilization of forest cultures; the amelioration of stunted cultures and forest stands. Czechoslovakia. Výzkumn. Úst. Lesn. Sborn. 3,437 p. 1950. 99.9 C994S  
English summary.
- 28017 NONOYAMA, M. Hiryo no chishiki [Knowledge of fertilizer]. Tokyo, Chikuyo shobo, 1950. 130 p. 57 N73
- 28018 OLSEN, S. R., and others. Utilization of phosphorus by various crops as affected by source of material and placement. Colo. Agr. Expt. Sta. Tech. B. 42,43 p. Ref. Dec. 1950. 100 C71S  
W. R. Schmehl, F. S. Watanabe, C. O. Scott, W. H. Fuller, J. V. Jordan and R. Kunkel, joint authors.
- 28019 PADGETT, J. R. Cover crops. Rio Grande Val. Hort. Inst. Proc. 5:69-71. 1951. 81 L95
- 28020 PATTERSON, M. E. Is it practical to feed plants through the leaves. Amer. Cyanograms 2(2):10-11. Winter 1951. 381 Am392
- 28021 PEQUIGNOT, R. À propos de la fumure de la betterave à sucre. Motorisation Agr. 5:545,547,549. (To be cont.) Oct. 1950. 58.8 M85
- 28022 PICARD, D. Was ist humus? Unser Wald 3(3): 20-21. Mar. 1950. 99.8 Un7
- 28023 PIMENTEL-GOMES, F. L'interpolation de la première loi d'approximation de Mitscherlich et l'analyse de la variance dans les essais d'engrais. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):492. 1950. 388 C765
- 28024 PINEDA, C. C. Farmers and fertilizers. Soil Sci. Soc. Philippines. J. 2:271-272. Fourth Q. 1950. 56.9 So35
- 28025 PONTAILLER, S. La fumure des prairies. J. de la France Agr. 7:1292. (To be cont.) Dec. 29, 1950/Jan. 4, 1951. 14 J829
- 28026 RAMADAN, A. The art of fertilizing. Countryman [Nicosia] 4(11):3-4. Nov. 1950. 25 C83
- 28027 RATTIGAN, C. Improving yield of rice crops. Indian Farming 11:167-168. Apr. 1950. 22 In283  
Use of chemical fertilizers.
- 28028 REBIFFÉ, J. Cultures dites exigeantes. Défense Agr. de la Beauce et du Perche 48:9. Jan. 13, 1951. 14 D36  
Soil requirements of several field crops.
- 28029 REBOUR, H. La fumure des agrumes. Voix des Colons 33(1589):3;(1591):2. Jan. 1-15, 1951. 24 V85
- 28030 RODALE, R. Guard against nitrogen in excess. Org. Gard. 18:56-58. Jan. 1951. 56.8 Or3
- 28031 ROJAS CRUZ, L. A. La cal es necesaria para la Sabana? Rev. Nac. de Agr. 44(548):31-34. Dec. 1950. 9.4 R32  
Colombia.
- 28032 ROMANINI, A. The best time to apply superphosphate to pastures. (In Italian.) Avvenire Agr. 58: 274-275. Nov. 1950. 16 Av9
- 28033 RUDE. Zur düngung der vliehweiden. Württemb. Wchnbl. f. Landwirt. 118:23-24. Jan. 13, 1951. 18 W96
- 28034 RUELE, L., and CEZARD, H. Les engrais font les bonnes prairies. B. des Engrais 326:191-194. Dec. 1950. 57.8 B87
- 28035 RUSSELL, SIR E. J. Soil conditions & plant growth. Ed. 8. London, Longmans, 1950. 635 p. 56.3 R91S
- 28036 SACCO, P. Fertilizing and irrigation. (In Italian.) Avvenire Agr. 58:311-312. Dec. 1950. 16 Av9
- 28037 SAMUELS, G. Sugar cane and the soil. Better Crops Plant Food 34(10):25-26,41-42. Dec. 1950. 6 B46
- 28038 SCHEIBNER, F. Von den gesetzmässigen beziehungen zwischen wachstumsfaktoren u. pflanzenenertrag. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1487-1488. Oct. 26, 1950. 18 L2346  
Soil fertility.
- 28039 SCHULE. Wie wird die obstbaumdüngung durchgeführt? Württemb. Wchnbl. f. Landwirt. 117: 1069-1070. Nov. 25, 1950. 18 W96
- 28040 SEARA, C. Fertilizing of horticultural plants. (In Portuguese.) Seleg. Agr. 5(56):20. Dec. 1950. 9.2 Se4
- 28041 SHEFER, A. I. Effect of soil on yield and quality of spring wheat kernel. (In Russian.) Selek. 1 Semen. 17(9):61-63. Sept. 1950. 61.9 Se5



- 28042 SILVA, R. N. DA. Soil organic matter. (In Portuguese.) *Gaz. do Agr.* 2:240-241. Oct. 1950. 24 G25
- 28043 SKEPPER, A. H. Fertilisers for fruit trees. *Orchardist New Zeal.* 23(10):29,31. Nov. 6, 1950. 80 Or19
- 28044 SLAWSON, H. H. National Joint Committee [on Fertilizer Application] stresses importance of correct fertilizer application. *Agr. Chem.* 6:47,49,97. Jan. 1951. 381 Ag8
- 28045 SLOAN, G. D. Spring fertilization. *Citrus Mag.* 13(6):23. Feb. 1951. 80 C498
- 28046 SOLDANI, R. Settle your accounts even with the pastures. (In Italian.) *Agr. in Prov. di Varese* 23: 1. Jan. 1, 1951. 16 Ag8265  
Fertilizing and costs and returns.
- 28047 SOUZA, W. W. C. DE. Permanent cultures; soil conservation, role of organic material. (In Portuguese.) *São Paulo. Supt. dos Serv. do Café B.* 25:874-884. Nov. 1950. 68.29 Sa63
- 28048 SPIVAKOVSKIĬ, N. D. Fertilizers and a system of soil management—most important factors of the Dokuchaev-Vil'iams complex in fruit culture. (In Russian.) *Sad i Ogorod* 1950(10):12-18. Oct. 1950. 80 Sa13
- 28049 STEWART, A. B. Fertilizers and lime in Scotland. 2. Lime and soil fertility. *Scot. Agr.* 30:149-153. Winter 1950/51. 10 Sco82So
- 28050 TÉLLEZ MOLINA, R. Abonos verdes. *Bada-joz. Diputación Prov. B. de Inform. Agr. y Ganad.* 8(81): 3-9. Oct. 1950. 15 B14
- 28051 THOMAS, K. M. Whither manuring? *Indian Coffee Bd. Mon. B.* 14:26-28. (To be cont.) Jan. 1950. 68.29 In23M
- 28052 TICO, L. Cómo lograr mayores cosechas. *Baleáric Isl. Diputación Prov. B. de Agr.* 74:6-7. Nov. 1950. 15 B19  
Fertilizing.
- 28053 TRABAUER, F. Wie und wann sollen die koppelweiden gedüngt werden? *Landwirtschaft* 1950:329-330. Nov. 1950. 19 L235  
Austria.
- 28054 TREPACHEV, E. P. Boron-magnesium fertilization increases seed productivity of leguminous plants. (In Russian.) *Selekt. i Semen.* 17(9):52-55. Sept. 1950. 61.9 Se5
- 28055 VALENTIN, J. Étude de la fumure phosphopotassique des prairies de la région de l'Ouest. *Potasse* 24:186-187. Dec. 1950. 57.8 P84
- 28056 VOLK, G. M., and GAMMON, N., JR. A starvation of potatoes; effects of low nitrate nitrogen told. *Fla. Grower* 59(2):18. Feb. 1951. 80 F6622
- 28057 WATKINS, J. M., and CANO, J. M. Mejore sus suelos sembrando leguminosas. *Cent. Nac. de Agron. C. Agr.* 23,4 p. Sept. 1950. 8 Sa54C
- 28058 WETZEL, A. Düngungsfehler und ertragschwankungen im obstbau. *Gartenjahr* 5:11-12. Jan. 1950. 80 G1932
- 28059 WINKELMANN, Weshalb obstbaumdüngung? *Württemb. Wchnbl. f. Landwirt.* 117:1048. Nov. 18, 1950. 18 W96
- 28060 WOODLE, H. A., and NETTLES, W. C. Abonos insecticidas para los maizales. *Hacienda* 46:44-45. Jan. 1951. 6 H11
- 28061 WYND, F. L. Feed the soil; text of an address presented at a convention of the Plant Food Producers of Ontario, June, 1950, at Tadoussac, Quebec. *East Lansing? Mich.*, 1950. 24 p. 57.02 W99
- 28062 ZEJSCHWITZ, E. VON. Düngungsvorschläge auf grund von bodenuntersuchungen. *Württemb. Wchnbl. f. Landwirt.* 118:3-4. Jan. 6, 1951. 18 W96
- 28063 ZÜRN, F. Die bedeutung der kalkdüngung auf dem dauergrünland. *Pflug* 3:249-250. Dec. 1950. 10 P46
- 28064 ZÜRN, F. Herbsdüngung der wiesen. *Landwirtschaft* 1950:290-291. Oct. 1950. 19 L235  
Austria.  
Also in *Pflug* 3:227-229. Nov. 1950. 19 P48
- 28067 DECOUX, L. Perfectionnements apportés à la préparation superficielle du sol, en liaison avec le semis precoce de la betterave sucrière. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):501. 1950. 388 C765
- 28068 GARNER, F. H. Ploughing up leys in the fens. *Gt. Brit. Min. Agr. Agriculture* 57:451-453. Jan. 1951. 10 G79J
- 28069 LEAH, E. The no-digging method brings good results. *Health & Soil* 1950:11-12. Winter 1950. 56.8 H34
- 28070 MACCANTI, M. Drought and summer tillage of fruit trees. (In Italian.) *Agr. Ferrarese* 54:87-90. Apr. 30, 1950. 16 Ag87
- 28071 MCINTYRE, A. C. Wood chips and farming. *Noeast. Wood Util. Council. B.* 33:7-13. Ref. Jan. 1951. 99.9 N819
- 28072 MCINTYRE, A. C. Wood chips, water and soil. *J. Soil & Water Conserv.* 6:20-25. Ref. Jan. 1951. 56.8 J822
- 28073 MACKENZIE, K. J., and CORMACK, R. M. M. Subsoiling in relation to agriculture. *Rhodesia Agr. J.* 47:394-397. Sept./Oct. 1950. 24 R34
- 28074 MEL'NICHUK, A. N. Depth of plowing in the grass-field crop rotation. (In Russian.) *Sovet. Agron.* 8(10):50-60. Oct. 1950. 20 So84  
Experiments with sugar beets.
- 28075 NEIGER, Y. The importance of deep ploughing in the northern Negev. (In Hebrew.) *Hassadeh* 30: 674-675. Sept. 1950. 26 H27
- 28076 NIESCHLAG, Grundsätzliche ausföhrungen über die bodenbearbeitung. *Landwirtsbl. Weser-Ems* 97: 964-966. Nov. 16, 1950. 18 L2345
- 28077 PATERSON, R. How often should grass be ploughed? *Farmers Wk. [London]* 34(2):49. Jan. 12, 1951. 10 F2226
- 28078 PRINCE, R. M. Mulch farming—the soil saver. *Agrarian* 9(2):4. Jan. 1950. 276.8 Ag8
- 28079 RUMSEY, M. C. Farming deep. *Land* 9:546-548. Winter 1950/51. 279.8 L22
- 28080 SHUTAK, V. G., and CHRISTOPHER, E. P. Mulch for berries. *Noeast. Wood Util. Council. B.* 33:65-79. Jan. 1951. 99.9 N819  
Includes discussion.  
Wood chips.
- 28081 SKUTCH, A. F. Problems in milpa agriculture. (Sum.) *Turrialba* 1:4-6. July 1950. 8 T86
- 28082 TORRES, J. DI P. Culture of corn (preparation of the land). (In Portuguese.) *Chacaras e Quintais* 82:735. Dec. 15, 1950. 9.2 C34
- Drainage, Irrigation, Water Supply, and Flood Control
- 28083 BIERMANN, H. P. Overhead irrigation a sound investment. *Farmer's Wk. [Bloemfontein]* 80:41. Jan. 17, 1951. 24 F225
- 28084 BISSET, D. R., and FLETT, J. Land reclamation in Orkney. *II. Scot. Agr.* 30:160-163. Winter 1950/51. 10 Sco82So
- 28085 BLACKWELL, H. L. Clear the ditches; waterlogged land soon becomes fowl-sick. *Mod. Poultry Keeping* 63:475. Nov. 15, 1950. 47.8 Eg3
- 28086 BOND, J. Bold scheme takes water uphill. *Farmer's Wk. [Bloemfontein]* 80:10-11, 13, 15. Dec. 13, 1951. 24 F225  
Irrigation system on a farm in South Africa.
- 28087 BOWERS, R. D. Legal rights in percolating waters. *Rur. New-Yorker* 101(5731):16. (To be cont.) Jan. 6, 1951. 6 R88
- 28088 BUFFA, E. Utilization of the waters of the Tanaro and its branches in the irrigation of Piedmont and Liguria. (In Italian.) *Cron. Econ.* 93:16-18. Nov. 15, 1950. 280.8 C882
- 28089 DELOFFRE, G. La remise en culture des terres de la région de Dunkerque inondées à l'eau de mer en 1944-1945. *Nord Agr.* 7(8):4. Dec. 22, 1950. 14 N75  
Reclamation of inundated lands.
- 28090 DEMIDOV, S. New advanced level of irrigated agriculture. (In Russian.) *Planovoe Khoz.* 1950(5):28-41. Sept./Oct. 1950. 280.8 P69
- 28091 DOTTRIDGE, R. B. Ditching and draining. *Gt. Brit. Min. Agr. Agriculture* 57:371-373. Nov. 1950. 10 G79J
- 28092 EICHELBERGER, W. J. Portable sprinkler systems. *Fla. Grower* 59:22-23. Jan. 1951. 80 F6622

#### Soil Tilth and Tillage

28065 ALVAREZ MOZO, F. Un paso mas. *Ceres [Valladolid]* 15(173):27,29. Nov. 1, 1950. 15 C33  
Tillage methods.

28066 BAILEY, R., and FREE, M. How to use a spade; the less time and energy wasted in digging, the more you will have left for gardening. *Home Gard.* 18(4). 22-26. Oct. 1950. 80 H756



- 28093 FEDTKE. Bekannte und bewährte sowie zusätzliche massnahmen zur herabminderung der abschwemmung in gebirgslagen. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1551. Nov.9,1950. 18 L2346
- 28094 FERGUSON, F. L., and DOWNING, C. G. E. Farm drainage and drainage acts in Ontario. Agr. Engin. 32:39-40,43. Jan.1951. 58.8 Ag83
- 28095 FUHRIMAN, D. K., and SMITH, R. M. Irrigation practices in Puerto Rico. Agr. Engin. 32:46,48,50. Jan.1951. 58.8 Ag83
- 28096 GIORGINI, G. Irrigation of Valdichiana. (In Italian.) Agr. Tosc. 5:435-437. Dec.1950. 16 Ag827
- 28097 GONDELLES A., R. Mejoramiento de las prácticas de riego y su relación a la conservación. Agr. Venezol. 15(146):10-11. Sept.1950. 9.95 Ag8
- 28098 HAVILAND, P. H. Some notes on the Water Act, as amended, 1949. Rhodesia Agr. J. 47:428-434. Sept./Oct.1950. 24 R34
- 28099 HUGHES, W. F. Controversial Plains water picture. Sowest. Crop & Stock 5:8. Jan.1951. 6 So8942  
Control vs. no control of ground-water use in the Texas High Plains.
- 28100 ISRAELSEN, O. W., and STEWART, C. D. Draining Lewiston flats will improve land conditions in Cache County [Utah]. Sugar Beet 9(8):10-13,29. Dec. 1950. 66.8 Su34B
- 28101 JOHNS-MANVILLE CORPORATION. Supplemental irrigation; one of a series of industry studies designed for use of company personnel. New York?1951. various pagings. 55 J62
- 28102 JORDAN, H. L. La busqueda y el aprovechamiento de las aguas. Siembra [Madrid] 6(10):16-19. Oct.1950. 15 S11  
Water for irrigation.
- 28103 KITCHING, H. W. Portable sprinkler irrigation systems. Agr. Inst. Rev. 6:19-22. Jan.1951. 7 Ag8
- 28104 KLAPP, A. Was man aus ödland machen kann. Deut. Landwirt. Presse 73(26):1-2. Dec.16,1950. 18 D482
- 28105 KOK, J. W. These graphs will help solve your irrigation problems; what can be done with a fixed quantity of water. Farmer's Wk. [Bloemfontein] 80:33,35. Dec.27,1950. 24 F225
- 28106 KOKOT, D. F. What happens to the rain? Increasing penetration into soil an aspect of conservation deserving full recognition and intense research; an explanation of the hydrologic cycle. Farmer's Wk. [Bloemfontein] 80:11,13,15,17. Dec.20,1950. 24 F225  
South Africa.
- 28107 KOSTIN, N. S. Automatic irrigation of land on Komsomolets Collective Farm [in Krasnopartizanskii District, Saratov Region]. (In Russian.) Les i Step' 2(9):74-82. Sept.1950. 99.8 L565
- 28108 KUFFELER, V. J. P. DE B. VAN. Reclamation in the southern part of IJsselmeer. I-II. (In Dutch.) Drents Landtbl. 31(50):5;(51):3. Dec.23-30,1950. 12 D812
- 28109 KULIKOVA, M. F. A new system of irrigation in vegetable cultivation. (In Russian.) Sad i Ogorod 1950 (10):58-60. Oct.1950. 80 Sa13
- 28110 LARSEN, S. T. Blast the silt. Reclam. Era 37:25,41. Feb.1951. 156.84 R24  
Cleaning silt from a concrete weir pool with dynamite.
- 28111 LEE, J. K., and STAMM, G. G. The economic problems of irrigation development in need of research by agricultural economists. West. Farm Econ. Assoc. Proc. 23:101-107. 1950. 280.9 W527P
- 28112 LEVI, S. R. Need of reorganizing the irrigation utilities in Italy. (In Italian.) Agr. Ital. 1:646-647. Dec.15,1950. 16 Ag822
- 28113 LEWIS, J. C. Flooded farms—build those dams! Calif. Farm Rptr. 11(12)/12(1):1-2. Dec.1950/Jan 1951. 281.8 C12
- 28114 LINDQVIST, R. Sugar beets and irrigation ditches. (In Swedish.) Lantmannen 34:1013. Dec.30,1950. 11 L 234  
Damage to pipes from roots.
- 28115 LOWDERMILK, W. C. The raindrop and the river; some observations on the dynamic behavior of water and on possible benefits from floods. Land 9:475-482. Winter 1950/51. 279.8 L22
- 28116 MACHEN, H. Reclaiming the fertile swamps; how a miracle of transformation has come to Co. Kerry. Farmer & Stock-Breeder 65:327,329. Jan.30,1951. 10 F228
- 28117 MEITH, H. C. Alternate middles irrigation pays. Citrus Leaves 31:12. Jan.1951. 80 C492
- 28118 MILLER, A. W. Minor flood and erosion control dams. N. S. Wales. Soil Conserv. Serv. J. 6:179-186. Oct.1950. 56.9 N472
- 28119 MILLER, D. G., and MANSON, P. W. Long-time performance of some clay drain tile. Agr. Engin. 32:95-97,100-101. Feb.1951. 58.8 Ag83
- 28120 MILLER, W. H., JR. Ditching with dynamite. Farm & Ranch South Agr. 81:12-13. Jan.1951. 6 T31
- 28121 MIRANTZ, M. S. They made money out of muck. Better Farming Better Living 1950:10,13. Winter 1950. 6 B464  
Drainage of swamp land in New York.
- 28122 MORAND, G., and BERNARD, A. L'assainissement du Marais Vernier. Génie Rur. 43:389,391-397. Dec.1950. 58.8 Au8
- 28123 NAIDU, M. C. Agricultural problems of the Tungabhadra irrigation project, Madras Presidency. Indian J. Agr. Sci. 19:263-275. June 1949. 22 Ag831
- 28124 OKLAHOMA. AGRICULTURAL AND MECHANICAL COLLEGE. EXTENSION DIV. Irrigation in Oklahoma. Okla. Agr. Col. Ext. C. 249,16 p. Ref. n.d. 275.29 Ok41C
- 28125 OLIVER, A. W. Irrigated Ladino pasture for hogs. Oreg. Agr. Expt. Sta. C. Inform. 490,5 p. Jan. 1951. 100 Or3C
- 28126 PANNWITZ, E. Grabenräumen leicht gemacht. Landtechnik 6:12-13. Jan.15,1951. 58.8 L235
- 28127 PILLSBURY, A. F. Water problems of turf. Greenkeepers' Rptr. 18(6):5-7. Nov./Dec.1950. 60.18 G83
- 28128 POLI, P. Various systems of irrigation. (In Italian.) Sardegna Agr. 28(41):5. Dec.31,1950. 16 Sa7
- 28129 POWERS, W. L., and KING, A. S. Drainage practices for Oregon. Oreg. Agr. Expt. Sta. B. 492,35 p. Nov.1950. 100 Or3
- 28130 QUEENSLAND. BUR. OF INVESTIGATION. Sixth annual report for the year 1949. Brisbane,1950. 27 p. 282.1992 Q3  
Irrigation and farming under irrigation.
- 28131 RALA, N. The reclamation and irrigation program in Apulia and Lucania. (In Italian.) Mezzogiorno Agr. 6(48):3. Dec.9/16,1950. 16 M57
- 28132 RAM, M. Water requirements in irrigation. (In Hebrew.) Hassadeh 31:126-128. Nov./Dec.1950. 26 H27
- 28133 RAO, P. V. C. Irrigation projects in Malabar. Indian Farming 11:117-118. Mar.1950. 22 In283
- 28134 RASMUSSEN, L. On stockwater development in Wyoming. Wyo. Range Mgmt. 29,3 p. Nov.1950. 60.19 W99
- 28135 RIDDOLLS, A. W. Pumping for surface irrigation. Canterbury Chamber Com. Agr. B. 254,6 p. Sept. 1950. 23 C162
- 28136 ROZANOV, A. N. The Principal Turkmenian Canal and our problems. (In Russian.) Pochvovedenie 1950:649-655. Nov.1950. 57.8 P34  
Its importance in irrigation chiefly.
- 28137 RUBECK, B. W. Sprinkler irrigation for livestock. Rec. Stockman, Annu. Ed. (1951)61(52):166-167,169. Dec.28,1950. 49 D43  
Pastures.
- 28138 SAJA, F. Irrigation in western Liguria. (In Italian.) Spezia Agr. 5(11):1-2. Nov.1,1950. 16 Sp3
- 28139 SAMEK, F. D. Artificial irrigation. (In Portuguese.) Soc. Rur. Bras. Rev. 30(360):62-63. Nov. 1950. 9.2 B733
- 28140 SAMPIETRO, G. Construction of the Elena Canal. (In Italian.) Riscultura 38:210-213. Sept./Oct. 1950. 59.8 G43  
Irrigation.
- 28141 SARGENT, M. Pasture irrigation. New Eng. Homestead 124(2):3,6. Jan.27,1951. 6 N442
- 28142 SCHWARTZ, B. Where every drop of rain is used; Transvaal farmer's methods succeed in preventing water from flowing off his ground. Farmer's Wk. [Bloemfontein] 80:10-11,13,15. Nov.22,1950. 24 F225
- 28143 SERS, J. La construction de canaux d'irrigation au Maroc. Rustica 24:35. Jan.14,1951. 14 R92
- 28144 SMITH, E. J. When the lake was emptied; the story of one of the biggest land-winning schemes of the last century, of the end of Whittlesea Mere, and of the making of farms upon its bed. Farmers Wk. [London] 33(25):45,47. Dec.22,1950. 10 F2226
- 28145 SPAGNOLO, V. The water courses of Calabria (In Italian.) Agr. Ital. 1:637-638. Dec.15,1950. 16 Ag822  
Irrigation.



- 28146 SPURLING, M. B. Water requirements of citrus. II. Irrigation frequency. So. Austral. Dept. Agr. J. 54:62-67. Sept.1950. 23 So84
- 28147 SUPPINI, A. Irrigation of alfalfa fields. (In Italian.) Agr. Ferrarese 54:60-65. Mar.31,1950. 16 Ag87
- 28148 TRIBBLE, R. T. Method for measuring flow in open irrigation channels. Agr. Engin. 32:31-32. Jan. 1951. 58.8 Ag83
- 28149 U. S. GEOLOGICAL SURVEY. Quality of surface waters of the United States, 1946. U. S. Geol. Survey. Water-Supply Paper 1050,486 p. 1950. 407 G29W
- 28150 U. S. GEOLOGICAL SURVEY. Quality of water of the Gila River Basin above Coolidge Dam, Arizona. U. S. Geol. Survey. Water-Supply Paper 1104, 230 p. 1950. 407 G29W
- 28151 U. S. GEOLOGICAL SURVEY. Surface water supply of the United States, 1948. 3. Ohio River Basin. U. S. Geol. Survey. Water-Supply Paper 1113,749 p. 1951. 407 G29W
- 28152 U. S. GEOLOGICAL SURVEY. Surface water supply of the United States, 1948. 8. Western Gulf of Mexico Basins. U. S. Geol. Survey. Water-Supply Paper 1118,371 p. 1950. 407 G29W
- 28153 U. S. GEOLOGICAL SURVEY. Surface water supply of the United States, 1948. 14. Pacific Slope Basins in Oregon and Lower Columbia River Basin. U. S. Geol. Survey. Water-Supply Paper 1124,273 p. 1951. 407 G29W
- 28154 WORLEY, L. D. Planning water disposal for minimum maintenance. Agr. Engin. 32:37-38. Jan.1951. 58.8 Ag83
- Terracing.
- 28155 WRAGE, W. Die "Gärten Allahs." Kosmos 46:513-517. Nov.1950. 474 K842
- Irrigation.
- 28156 ZHUK, S. Great national constructions of the Stalin Era. (In Russian.) Planovoe Khoz. 1950(5):17-27. Sept./Oct.1950. 280.8 P69
- Includes irrigation.
- 28157 ZHURIN, A. B. Irrigation of vineyards. (In Russian.) Sad i Ogorod 1950(10):44-46. Oct.1950. 80 S413
- Erosion and Erosion Control**
- 28158 ALLEN, L. C. What's happening on the South Plains. Prog. Farmer, Tex. Ed. 66(2):8,121,134. Feb. 1951. 6 T311
- Wind erosion control including cover crops.
- 28159 ANTROPOV, T. F., and KORNEV, I. A. V. Experiment in cultivation of perennial legumes and grasses on eroded soils. (In Russian.) Sovet. Agron. 8 (10):61-72. Oct.1950. 20 So84
- 28160 ARTHUR, I. W., and JENNETT, G. N. How tenure affects soil conservation. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:93-94. Dec.1950. 275.28 Io94
- 28161 ATHAWALE, C. R. Anti erosion project in Madhya Pradesh. Nagpur Agr. Col. Mag. 25:52-55. June/Sept.1950. 107.5 N132
- 28162 AXLING, H. L. Problems of an extension agent in conservation education. West. Farm Econ. Assoc. Proc. 23:160-164. 1950. 280.9 W527P
- Soil conservation.
- 28163 BAKER, V. W. The economic implications of conservation. West. Farm Econ. Assoc. Proc. 23:141-143. 1950. 280.9 W527P
- Soil and water conservation.
- 28164 BAYLOR, J. W. Saving soil and water. In Thompson, M., and Freeman, O. W., eds. The conservation of Northwest resources, p.85-106. Seattle, Northwest. Conserv. League, 1950. 279.003 T37
- 28165 BECK, J. R. Old-timers recognized erosion dangers. Oreg. Farmer 74:35. Jan.18,1951. 6 Or32
- 28166 BERMAN, R. W. Conservation farming in New England with a farm grader. N. S. Wales. Soil Conserv. Serv. J. 6:196-202. Oct.1950. 56.9 N472
- 28167 BOATMAN, J. L. Extension education in soil and water conservation. Washington, U. S. Ext. Serv., 1950. 8 p. 1.913 A2B63
- Talk at Extension Soil Conservationists' Conference, Spring Mill State Park, Ind., Oct. 9, 1950.
- 28168 BOATMAN, J. L. Soil conservation district administration. Washington, U. S. Ext. Serv., 1950. 7 p. 1.913 A2B63
- Talk given at a recognition meeting of soil conservation district government bodies, St. Cloud, Minn., Sept. 18, 1950.
- 28169 BRITT, C. S. Ridged rows, new soil saving method, successful in Maryland. Crops & Soils 3(5):18-19. Feb.1951. 6 W55
- 28170 BUIE, T. S., and NUNN, A. Land and human capability. Land 9:539-541. Winter 1950/51. 279.8 L22
- Soil conservation.
- 28171 COLÓN TORRES, R. La conservación de los recursos agrícolas de Puerto Rico: función de buen liderato y buena técnica. Rev. del Café 6(7):5-7. Dec. 1950. 8 R3295
- Soil conservation.
- 28172 COMBS, L. R. How fast does soil-saving pay? Soil saving costs money. Here is exactly how much it cost one Wisconsin farmer, and how quickly it came back. Successful Farming 49(2):51,133-135. Feb.1951. 6 Su12
- 28173 COX, R. K. The land use factor in wheatland erosion control. N. S. Wales. Soil Conserv. Serv. J. 6: 159-170. Oct.1950. 56.9 N472
- 28174 DICKERMAN, M. B. The meaning of conservation. Missoula? U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta., 1950. 8 p. 1.962 F4D55
- Talk at annual meeting of the Western Farm Economics Association, Pullman, June 28, 1950.
- 28175 DIJKMAN, M. J. Leucaena—a promising soil-erosion-control plant. Econ. Bot. 4:337-349. Ref. Oct./Dec.1950. 450 Ec7
- Also in Agr. Venezol. 15(146):35-39. Sept.1950. 9.95 Ag8
- 28176 DULEY, F. L. Keeping the dust under cover. J. Soil & Water Conserv. 6:34-37. Jan.1951. 56.8 J822
- 28177 FAIRBAIRN, W. A. Erosion—the world menace. Health & Soil 1950:26-27. Winter 1950. 56.8 H34
- 28178 FLORENT'EV, L. I. A., and CHEREMISINOV, G. A. Practices of a leading district. (In Russian.) Sovet. Agron. 8(10):16-29. Oct.1950. 20 So84
- Fulfillment of the Stalin Plan to change nature by the collective farms in Kuznetsk District.
- 28179 GLOVER, H. Erosión del suelo. Rev. Nac. de Agr. [Bogotá] 44(544):38-43. Aug.1950. 9.4 R32
- 28180 HARAKIS, M. All good things around us—soil and water. Countryman [Nicosia] 4(10):1-3. (To be cont.) Oct.1950. 25 C83
- Soil erosion and structure.
- 28181 HEADY, E. O. Efficiency in public soil-conservation programs. J. Polit. Econ. 59:47-60. Feb. 1951. 280.8 J82
- 28182 HOCKENSMITH, R. D. A land-capability inventory basic to soil conservation. Washington, 1950. 8 p. 1.96 L22Lan
- Paper before the Caribbean Soils Conference, Puerto Rico, Mar. 30-Apr. 8, 1950.
- 28183 HOTTENSTEIN, W. L. Roadside conservation in Pennsylvania. Forest Leaves 35(5):3-7. Nov./Dec. 1950. 99.8 F763
- Slope protection.
- 28184 HUFFMAN, R. E. Water—master key to progress of Montana agriculture. Mont. Farmer-Stockman 38(8):8. Dec.15,1950. 6 M764
- Conservation and improved use of water.
- 28185 KHAN, A. D. Soil—our most important national resource. Agr. & Anim. Husb. 1(3):86-98;(4):24-29. Apr./Aug.-Sept.1950. 22 Ag86
- Chiefly conservation in India.
- 28186 MCMILLEN, R. D. Gully fighter; Hugh Bennett, our battling soilsaver, is due to retire soon—but the U. S. won't quickly forget him. Farm J. 75(3):31,99. Mar.1951. 6 F2212
- 28187 MASON, A. J. A Corn Belt without corn. Land 9:521-528. Winter 1950/51. 279.8 L22
- Effects of rainfall and floods upon the soil.
- 28188 MICHELMORE, R. J. Control of soil erosion. So. Austral. Dept. Agr. J. 54:84-86. Sept.1950. 23 So84
- 28189 QUINTEROS, M., TERRA AROCENA, E., and REY VERCESI, D. La erosión de los suelos. Uruguay. Inst. Nac. de Colon. B. 1(8,sup.):1-6. (To be cont.) Sept. 1950. 282.29 Ur8
- 28190 RUSHE, J. Soil erosion. Agr. Ireland 8:9,11-12. Jan.1951. 10.5 Ag8



28191 SINGH, T. J. Review of Grow More Food (Soil Conservation) Progress of the Forest Department, Punjab. Indian Forester 76:528. Dec.1950. 99.8 ln2

28192 STALLINGS, J. H. Erosion removes plant nutrients and lowers crop yields. Better Crops Plant Food 34(10):13-19,44-45. Ref. Dec.1950. 6 B46

28193 STERELNY, I. A. Protection of Wongo Creek Catchment, Manila. N. S. Wales. Soil Conserv. Serv. J. 6:171-178. Oct.1950. 56.9 N472

28194 STOUGH, J. Proper farming pays off. Tex. Livestock J. 9(12):6,30. Dec.1950. 49 T29  
Conservation farming.

28195 TAYLOR, C. C. Conservation: a social and moral problem. J. Soil & Water Conserv. 6:7-9,14. Jan.1951. 56.8 J822

28196 TAYLOR, G. W. Rolling Red Plains [Texas] is being tied down. Sowest. Crop & Stock 5:9,53. Jan.1951. 6 So8942

28197 TAYLOR, T. P. Orchard planting for the prevention and control of erosion. N. S. Wales. Soil Conserv. Serv. J. 6:187-195. Oct.1950. 56.9 N472

28198 TERRA, H. DE. Los cambios climatológicos y la conservación del suelo en México. Turrialba 1:28-31. July 1950. 8 T86  
English summary.

28199 TEXAS STATE SOIL CONSERVATION BOARD. The first 10 years of soil conservation districts in Texas. Temple, 1950. 39 p. 56.9 T31

28200 U. S. SOIL CONSERVATION SERV. Basic considerations in a program of conservation of the land and water resources of the nation. Washington? 1950. 9 p. 1.96 Ad6Bc

28201 U. S. SOIL CONSERVATION SERV. Report of the chief, 1949/50. Washington, 1950. 78 p. 1.6 So3R

28202 UTAH. STATE SOIL CONSERVATION COMMITTEE. Seventh biennial report, July 1, 1948 to June 30, 1950. Salt Lake City, 1950. 15 p. 56.9 Ut1

28203 VAN DOREN, C. A., and GARD, L. E. Protecting your soil. Ill. Agr. Col. Ext. C. 667,23 p. Sept. 1950. 275.29 IL62C

28204 WASSENAAR, T. Weeping livegrass can save our soil; remarkable versatility of *Eragrostis curvula* the obvious answer to erosion menace. Farmer's Wk. [Bloemfontein] 80:10-11,13. Jan.17,1951. 24 F225

28205 WEIGT, E. Bodenzerstörung, ein weltweites phänomen. Z. f. Raumforsch. 1950:245-249. 282.8 Z3

28206 WILMOT-WARE, E. V. Erosion follows excavator. Trees & New Earth 14:131-132. Winter 1950/51. 99.8 T714

28207 WYOMING STATE SOIL CONSERVATION COMMITTEE. Fifth biennial report, November 1, 1948-October 31, 1950. Cheyenne, 1950. 6 p. 56.9 W99

28208 YOUNG, C. L. Saving the soil is big job. Ramblin' Around 1951:22. Jan.1951. 6 B463

#### Sanitation

28209 BARTON, B. R. Soil fumigation. Fruit & Veg. Rev. 12(10):13,21. Jan.1951. 80 C1224

28210 BLUMER, S. Über bodendesinfektion. Gärtnermeister 53:381-382. Nov.23,1950. 80 G1939

28211 EPPIG, J. J. Pass the penicillin. New Eng. Gladiolus Soc. Gladiolus 26:25-28. 1951. 96.43 N44  
Chloropterin for soil sterilization.

28212 GUBA, E. F., and AMES, R. W. Top soil application of chemicals for control of carnation wilt diseases. Carnation Craft 1950(15):3-7. Ref. Dec.1950. 80 C21

28213 HALLOWAY, T. E. La quema de los cañaverales. Asoc. Gen. de Agr. B. 285:7. Dec.30,1950. 8 As52

28214 NEWHALL, A. G. Flash flame soil pasteurizer. N. Y. State Flower Growers. B. 63:2. Nov.1950. 80 N486

28215 STOU MONT, A. D. Le sulfure de polychlorocyclane et la désinfection du sol. Cour. Hort. 12:657. Dec.1950. 80 C834

28216 WEISS, F. A. Fighting the underground pests. Home Gard. 16(5):20-24. Nov.1950. 80 H756

#### MATERIALS FOR SOIL IMPROVEMENT

28217 ALMEIDA, J. R. DE, RANZANI, G., and VALSECCHI, O. La vinasse en agriculture. (Sum.) Cong. Internat. des Indus. Agr. Rap. 8(1):492-493. 1950. 388 C765

As a fertilizer.  
28218 CONLON, J. Seaweed—the complete fertiliser. Beet Grower 4:261-264. Jan.1951. 66.8 B392

28219 DAS, S. The relative importance of organic manures and inorganic fertilizers in tropical soils. Indian J. Agr. Sci. 19:41-59. Ref. Mar.1949. 22 Ag83I

28220 SAUCHELLI, V. New conclusions as to the behavior of calcium sulphate as a source of sulphur and calcium as plant nutrients. Amer. Fert. & Allied Chem. 113(9):6-8,23-24;(10):12-13. Ref. Oct.28-Nov.11,1950. 57.8 Am3

28221 SAUCHELLI, V. Service through research; a well-known soil scientist opens up avenues of progress for the fertilizer industry. Amer. Fert. & Allied Chem. 113(13):6-8,24,26. Dec.23,1950. 57.8 Am3

28222 SCIENCE vs. witchcraft. Fert. Rev. 26:3-10. Ref. Jan./Mar.1951. 57.8 F414  
Chemical fertilizers.

28223 TRUOG, E. Which: organic compost or commercial fertilizers? Amer. Cyanograms 2(2):2-3. Winter 1951. 381 Am392

28224 VÁHALA, J. The orientation experiments with a new fertilizer from tannery waste. (In Czech.) Českoslov. Akad. Zeměděl. Věst. 24:550-556. Dec.1950. 19.5 C332

#### Primary Materials

28225 BRADFIELD, R. The place of chemical fertilizer in crop production. Amer. Plant Food Council. J. 4(4):13-17. Oct./Dec.1950. 57.8 P692

28226 DEERING, F. J. Mechanical 'legumes' create nitrogen fertilizer from air, natural gas and stream. Farmer-Stockman 54:12. Jan.1951. 6 Ok45

28227 DEERING, F. J. Phosphates from Florida fortify the Nation's agriculture. Farmer-Stockman 54(2):9,24. Feb.1951. 6 Ok45

28228 DOST, F. H. Die entdeckung der künstlichen düngung und ihr soziologischer sowie naturwissenschaftlicher hintergrund. Nat. u. Nahr. Ausg. B 4:101-104. (To be cont.) Sept.1950. 80 N218B

28229 GILMAN, W. Getting the good out of phosphate. New Eng. Homestead 124(2):5,8. Jan.27,1951. 6 N442

28230 LESPÉRANCE, R. L'emploi des engrais chimiques dans le Québec. Terre de Chez Nous 22(59):10. Feb.7,1951. 7 T27

28231 MOICQUE, R. Fertilizers for Brazil's soil. Braz. Business 31:16-18. Jan.1951. 286.8 B732

28232 OLESEN, J. Nitrogen fertilizers 1950-51. (In Danish.) Dansk Landbr. 70:13-14. Jan.4,1951. 280.28 V91

28233 TOTMAN, J. E. Industry's responsibility in the emergency. Amer. Fert. & Allied Chem. 113(11):11-12,22,24. Nov.25,1950. 57.8 Am3

28234 WESTON, S. The economics of choosing fertilisers. (Sum.) Planter 26:480-484. Nov.1950. 78.8 P69

#### Secondary and Minor Element Materials

28235 BRODINE, A. M. Minor elements now a major problem. Amer. Fert. & Allied Chem. 113(8):6-8. Oct. 14,1950. 57.8 Am3

28236 DELAVALT, R. E. Les oligoéléments et leurs applications pratiques. Rev. Trimes. Canad. 36:387-402. 1950. 470 R32

28237 SMITH, V. T. Minor elements for field crops? Idaho Farmer 68:801. Nov.2,1950. 6 G282

28238 SMOYER, K. M. The puzzling micro-elements. Calif. Citrog. 36:134,152-154,156. Feb.1951. 80 C125

#### Mixed Fertilizers and Fertilizer Technology

28239 HARDESTY, J. O., and CLARK, K. G. Granulation of fertilizers. Agr. Chem. 6:34-38,95,97. Ref. Jan.1951. 381 Ag8

28240 LODGE, F. S. Fertilizer chemistry. Indus. & Engin. Chem. 43:311-314. Feb.1951. 381 J825



- 28241 RAO, A. N. Some basic industrial problems requiring scientific investigation on priority basis. *J. Sci. & Indus. Res.* 9A:434-436. Dec.1950. 475 J82  
Includes manufacture of fertilizers.

#### Fertilizer Statistics

- 28242 BRITISH SULPHATE OF AMMONIA FEDERATION. Annual report for 1949/1950. Billingham, 1950. 6 p. 57.9 B77
- 28243 CALLISTER, G. J. The world fertilizer supply and the FAO world program. *Fert. Rev.* 26:18-22. Jan./Mar.1951. 57.8 F414
- 28244 DAUJAT, A. Les engrais sont-ils chers? *B. des Engrais* 326:180-182. Dec.1950. 57.8 B87  
France.
- 28245 GOTTSCHAU, A. Fertilizers 1950-51. (In Danish.) *Andelsbladet* 52:21. Jan.4, 1951. 280.28 An2
- 28246 GREVE, W. Die Lage auf dem Düngemittelmarkt. *Landwirtsch. Weser-Ems* 97:1036-1037. Dec.7, 1950. 18 L2345
- 28247 HOFFMANN, O. Warum verzichtet der Bauer auf sein Recht? *Württemberg. Wchnbl. f. Landwirt.* 117:1090. Dec.2, 1950. 18 W96  
Fertilizer prices.
- 28248 HOPKINS, D. P. Fertilizers in 1950. *Chem. Age* 64:73-75. Jan.13, 1951. 382 C427
- 28249 LODGE, F. S. Fertilizer use tied to farm prices. *Chem. & Engin. News* 29:38-39. Jan.1, 1951. 381 J825N
- 28250 SARRABAY, J. Fumier artificiel à El-Affroun. *Rev. Agr. de l'Afrique du Nord* 48:853. Nov.17, 1950. 80 R326
- 28251 SAUCHELLI, V. Some highlights in the development of the Mid-Atlantic fertilizer industry. *Fert. Rev.* 26:11-16. Jan./Mar.1951. 57.8 F414
- 28252 U. S. BUR. OF LABOR STATISTICS. Trends in man-hours expended per ton for the manufacture of fertilizer, 1947 and 1948. Washington, 1950. 10 p. 158.61 T722
- 28253 WAGENSELLER, K. Plant food outlook for 1951. (Excerpts.) *Western News* 12(5):4-9. Jan.1951. 389.78 W522
- 28254 WILSON, L. H. In 1951 Ag leaders should know: fertilizer outlook—fair; fertilizer demand—heavy. *Better Farming Methods* 23(2):16, 18. Feb.1951. 58.8 B46

#### Manures and Composts

- 28255 BALHORN, P. S., and THOMALLA, H. Komme ich mit meinem Stalldünger aus? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1558. Nov.9, 1950. 18 L2346
- 28256 DICKEY, J. B. R. To get the most out of manure. *Pa. Farmer* 144:67. Jan.27, 1951. 6 P383
- 28257 EWESON, E. Our soil problem; we must follow nature's pattern in soil building. II. *Org. Gard.* 18:32-34. Jan.1951. 56.8 Or3  
Chiefly on composts.
- 28258 GOETZ, K. Reisswolf oder Häcksler? Rotte oder Häckselmist? *Tech. f. Bauern u. Gärt. Ausg. A* 2:477-478. Aug.25, 1950. 58.8 T223
- 28259 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Poultry manure. *Gt. Brit. Min. Agr. & Fisheries. Adv. L.* 320.4 p. Dec.1950. 10 G79La
- 28260 JENSEN, H. L. A strain of *Nitrosomonas europaea* from farmyard manure. (In Danish.) *Tidsskr. f. Planteavl* 54:82-80. Ref. 1950. 11 T439  
English summary.
- 28261 KEDOSHA, R. The production of organic manure in the smallholder's settlement. (In Hebrew.) *Hassadeh* 31:125-126. Nov./Dec.1950. 26 H27
- 28262 KUESTNER, W. Lick the drought. *Org. Gard.* 18:58-59. Jan.1951. 56.8 Or3  
Use of compost as fertilizer.
- 28263 LEVIN, I. The shortage of organic manure in the settlements of Eastern Upper Galilee. (In Hebrew.) *Hassadeh* 30:713-716. Sept.1950. 26 H27
- 28264 MARTINS, M. M. Compost. (In Portuguese.) *Soc. Rur. Bras. Rev.* 30(360):70-71. Nov.1950. 1.2 B733  
Preparation.
- 28265 MELLO, E. M. DE. Compost. (In Portuguese.) *Seleç. Agr.* 5(56):49-50. Dec.1950. 9.2 Se4  
Preparation.
- 28266 OWEN, W. L. Solvent extracted filter press mud for plant food. *Sugar* 46:34, 36. Jan.1951. 65.8 F11

- 28267 PANOV, M. On partial filling [with manure and garbage] of hotbeds in the autumn. (In Russian.) *Sad i Ogorod* 1950(10):68. Oct.1950. 80 Sa13

- 28268 PANZER, M. L., and LUDWIG, H. F. Should we reconsider composting of organic refuse? *Civ. Engin.* 21:90-91. Feb.1951. 290.8 C49

- 28269 POZDENA, L. Kritische bemerkungen zur frage der laubdüngung. *Bodenkultur* 4:365-368. 1950. 19 B635

- 28270 RINTELEN, P. Ueber die Stallunganwendung in Grünlandstarken betriebe. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1623-1624. Nov.23, 1950. 18 L2346

- 28271 ROMAGOSA VILÁ, J. A. Cuidados que requiere el estiércol. *Cult. Mod.* 33:376. Oct.1950. 15 C89

- 28272 SARGENT, L. An organic gardener speaks. *Minn. Hort.* 79:3. Jan.1951. 81 M66  
Use of leaves in soil improvement.

- 28273 SCHON, R. C. Material for compost. *Noeast. Wood Util. Council. B.* 33:91-94. Jan.1951. 99.9 N819  
Wood chips.

- 28274 SHIRKHANDE, J. G. Sticky manures. *Agr. & Anim. Husb.* 1(4):19-23. Ref. Sept.1950. 22 Ag86

- 28275 TAYLOR, A. J. Tried methods of compost-making. *Farmer's Wk. [Bloemfontein]* 80:46-47. Dec.13, 1951. 24 F225

- 28276 ZIELSTORFF, Mehr humus durch kunstmist. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:46. Jan.11, 1951. 18 L2346

#### FORESTRY

##### GENERAL

- 28277 ALLEN, S. W. The Society of American Foresters. In *Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A.*, p.272-284. Washington, 1950. 99.04 Sol

- 28278 ANDRADA, E. DE C. We need to conserve the forests. (In Portuguese.) *Gaz. do Agr.* 2:218, 220. Sept. 1950. 24 G25  
Mozambique.

- 28279 BERGMANN, Die vorzeitige pensionierung. *Deutsche Forstmann.* p.69-70. In *Forst u. Holz* 5. Nov. 15, 1950. 99.8 F7724

- 28280 BOURUET-AUBERTOT, J. La crise de la production forestière en Côte-d'Ivoire. *Marchés Colon.* 6:3099-3100; 7:12-13. Dec.30, 1950-Jan.6, 1951. 286.8 M33

- 28281 CLARK, F. J. Keeping our forests green. In Thompson, M., and Freeman, O. W., eds. *The conservation of Northwest resources*, p.123-157. Ref. Seattle, Nowest. Conserv. League, 1950. 279.003 T37

- 28282 DANA, S. T. Forest research. In *Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A.*, p.316-339. Washington, 1950. 99.04 Sol

- 28283 DICKERMAN, M. B. The meaning of conservation. *West. Farm Econ. Assoc. Proc.* 23:133-140. 1950. 280.9 W527P

- Includes forest and soil conservation.

- 28284 FOWLES, P. D. S. Tercer Congreso Mundial de Silvicultura. *Montes* 6:633-643. Sept./Oct.1950. 99.8 M763

- 28285 GILLET, C. A. Citizen and trade associations dealing with forestry. In *Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A.*, p.285-298. Washington, 1950. 99.04 Sol

- 28286 GOTHE, H. Wald und volksseele. *Unser Wald* 3(3):2-3. Mar.1950. 99.8 Un7

- 28287 GREELEY, W. B. Industrial forestry. In *Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A.*, p.238-259. Washington, 1950. 99.04 Sol

- 28288 JURISCH, A. Militärforstanwärter mit anstellungsberechtigung. *Deutsche Forstmann.* p.71-72. In *Forst u. Holz* 5. Nov.15, 1950. 99.8 F7724

- 28289 LANDON, F. H. Life in the Malayan Forest Service. *Oxford U. Forest Soc. J. (ser.3)* 5:27-32. 1950. 99.9 Ox2

- 28290 LISTER, G. G. Words from the woods. *Trees & New Earth* 14:128-130. Winter 1950/51. 99.8 T714



- 28291 LORENZ VON LIBURNAU, H., RITTER, ed. Lehr- und handbuch der forstwirtschaft, v.2,4. Ed. 5. Wien, Frick, 1950. 2 v. 99 L881
- 28292 ST. CLAIR, R. C. A message from British Columbia: Forestry progress in B. C. gratifying. Brit. Columbia Lumberman 35:71-72. Jan. 1951. 99.81 B77
- 28293 SHOW, S. B. American and world forestry. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p.340-354. Washington, 1950. 99.04 Sol
- 28294 SOCIETY OF AMERICAN FORESTERS. COMMITTEE ON HISTORY OF FORESTRY. Fifty years of forestry in the U.S.A. Washington, 1950. 385 p. 99.04 Sol
- 28295 SÜLZE, L. Forstliche bibliographie berichtszeitraum 1. januar bis 31 märz 1950. Forstwirt. Holzwirt. 4:309-312. Oct.1/15, 1950. 99.8 F7793
- 28296 SURCHAMP, H. L'alphabet de la forêt. Paris, Bourrellier, 1950. 143 p. 99 Su73
- 28297 WEATHERBY, H. Managed conservation keynotes forestry conference. Brit. Columbia Lumberman 35:34-35, 81-82, 84. Jan. 1951. 99.81 B77
- 28298 WINTERS, R. K. The first half century. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p.1-29. Washington, 1950. 99.04 Sol
- 28299 ZHUKOV, A. B., and NESTEROV, V. G. Michurinite biology in forestry. (In Russian.) Lesn. Khoz. 3(8):5-7. Aug. 1950. 99.8 L5622
- 28300 ZIERAU, E. Urwaldgeheimnisse. Wald u. Holz 32:70-73. (To be cont.) Dec. 1950. 99.8 W14

#### Education

- 28301 GUISE, C. H. Statistics from schools of forestry for 1950: degrees granted and enrollments. J. Forestry 49:7-12. Jan. 1951. 99.8 F768
- 28302 HOSMER, R. S. Education in professional forestry. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p.299-315. Washington, 1950. 99.04 Sol
- 28303 NIKITIN, I. N. Triumph of Michurinite biology in teaching on forestry. (In Russian.) Lesn. Khoz. 3(8):18-23. Aug. 1950. 99.8 L5622
- 28304 PLATZER, H. B. Die walдарbeitsschule. Forst u. Holz 5:351-354. Nov. 15, 1950. 99.8 F7724

#### Policies, Programs, Administration

- 28305 ALESHIN, A. At Pitserskaja Forest Conservation Station. (In Russian.) Lesn. Khoz. 3(8):68-69. Aug. 1950. 99.8 L5622
- 28306 ANDAMAN ISLANDS. FOREST DEPT. Annual report for 1947-48. Calcutta, 1950. 43 p. 99.9 In2An
- 28307 BEER, F. An der schwelle des ersten holzeinschlages im rahmen des fünfjahrplanes. Forstwirt. Holzwirt. 4:290-292. Oct.1/15, 1950. 99.8 F7793
- 28308 CAROSI, G. The catharsis of the Forest Service of the State. (In Italian.) Foreste 2:166-172. Dec. 1950. 99.8 F7694
- Italy.
- 28309 DIETERICH, V. Vorschläge zur organisation der forstwirtschaftslenkung insbesondere im südwestdeutschen raum. Holz-Zentbl. 76:1247-1248. Sept. 23, 1950. 99.81 H742
- 28310 GRACHEV, A. P. Securing the lumber raw material bases. (In Russian.) Lesn. Khoz. 3(8):28-33. Aug. 1950. 99.8 L5622
- Plans of the Ministry of Forestry of U.S.S.R. for the utilization of forests.
- 28311 GUPTA, J. N. S. The mutilated queen in the sylvan festival. Indian Forester 76:520-522. Dec. 1950. 99.8 In2
- Reforestation policy.
- 28312 HACHENBERG, F. Wiederaufforstung und landgestaltung. Unser Wald 3(3):4. Mar. 1950. 99.8 Un7
- Germany.
- 28313 HUTCHISON, S. B. Other Federal agencies. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p.208-221. Washington, 1950. 99.04 Sol
- 28314 ILLICK, J. S. State forestry. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p.222-237. Washington, 1950. 99.04 Sol
- 28315 IZUMSKIY, I. P. The achievements of science are to be made the property of all [forestry] enterprises. (In Russian.) Lesn. Khoz. 3(8):24-27. Aug. 1950. 99.8 L5622
- 28316 KOEHLER, W. Niedersachsens forstetat unter der lupe. Deutsche Forstmann, p.70-71. (Concl.) In Forst u. Holz 5. Nov. 15, 1950. 99.8 F7724
- 28317 LÜNNINCK, FREIHERR VON. Umlegung von waldflächen. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1632. Nov. 23, 1950. 18 L2346
- 28318 MARSHALL, C. Forestry problems of the South Pacific. Fiji. Dept. Agr. Agr. J. 20:121-127. Dec. 1949. 25 F47Ag
- 28319 MIKHALIN, I. IA., and BULAVIN, V. P. The budget of the Ministry of Forestry of U.S.S.R. in 1950. (In Russian.) Lesn. Khoz. 3(8):47-51. Aug. 1950. 99.8 L5622
- 28320 NEW YORK. CONSERVATION DEPT. Thirty-ninth annual report for the year 1949. n.p., 1950. 321 p. 279.9 N48
- Includes the Division of Lands and Forests.
- 28321 OECHSLIN, M. Ein forstpolitischer rückschritt? Wald u. Holz 32:45-48. Nov. 1950. 99.8 W14
- Switzerland.
- 28322 PHELPS, V. H. Silvicultural results of forest policies and practices in Manitoba and Saskatchewan. Forestry Chron. 26:324-327. Dec. 1950. 99.8 F7623
- 28323 POPKOV, M. I. They had fulfilled the plan for shelterbelts on time. (In Russian.) Les i Step' 2(9):55-58. Sept. 1950. 99.8 L565
- The workers of MIUD Sovkhoz in Urifskiy District, Orlov Region.
- 28324 RAUNECKER. Berufsbeamtentum und gewerkschaft. Forstl. Mitt. 3:175-177. Nov. 20, 1950. 99.8 F7725
- Germany.
- 28325 RYLE, G. B. The plan of operations. Q. J. Forestry 44:58-74. Apr. 1950. 99.8 Q2
- Forestry Commission for Dedicated Estates.
- 28326 SAENZ DOZAL, R. Toda reforestación merece un estudio previo. Mensajero Forest. 8(76):3-4. Aug./Sept. 1950. 99.8 M522
- 28327 SAVKOV, V. I. On the work of Livenskaia Forest Conservation Station. (In Russian.) Lesn. Khoz. 3(8):65-67. Aug. 1950. 99.8 L5622
- 28328 SERRANO VICENS, R. El minifundio forestal y sus problemas. Montes 6:620-622. Sept./Oct. 1950. 99.8 M763
- Spain.
- 28329 SHANKLIN, J. F. U. S. Department of the Interior. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p.192-207. Washington, 1950. 99.04 Sol
- 28330 THIESMEYER, L. L. Teamwork in research. Forestry Chron. 26:279-286. Dec. 1950. 99.8 F7623
- 28331 U. S. FOREST SERV. Cooperation in forestry; report of the chief, 1949/50. Washington, 1950. 69 p. 1 F76
- 28332 U. S. FOREST SERV. Starting a community forest. Washington, 1950. 4 p. 1.962 S2St2
- 28333 U. S. NATIONAL FOREST RESERVATION COMMISSION. Annual report, 1949/50. U. S. Cong. 81st, 2d sess. S. Doc. 246, 28 p. 1951. 99.9 N216
- 28334 VASIL'EV, P. V. Problems in the development of forestry in U.S.S.R. during the transition period from socialism to communism. (In Russian.) Lesn. Khoz. 3(8):8-17. Aug. 1950. 99.8 L5622
- 28335 VIRGINIA. ADVISORY COUNCIL ON THE VIRGINIA ECONOMY. Virginia forests as they relate to the Virginia economy; report of the Committee on Forestry. Richmond? 1950. 42 p. 99.7 V81
- 28336 WATTS, L. F. U. S. Forest Service. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p.165-191. Washington, 1950. 99.04 Sol
- 28337 WENKE, H. U. Das forstpolitische problem Nr. 1. Z. f. Raumforsch. 1950:271-276. 282.8 Z3
- Germany.
- 28338 ZOGRAPHOS, C. D. Tree planting. Countryman [Nicosia] 4(12):7. Dec. 1950. 25 C83
- Program in Cyprus.



Legislation and Taxation

- 28339 HUGHES, W. G. The development of farm woodlot licenses in British Columbia. Brit. Columbia Lumberman 35:100,102,104. Jan.1951. 99.81 B77
- 28340 MANTEL, W. Das forstliche artgesetz. Allg. Forstz. 6:13-14. Jan.10,1951. 99.8 AL52 Germany.

Forest Description and Resources

- 28341 ALLOUARD, P. Les forêts et les industries forestières au Mexique. Bois et Forêts des Trop. 1950: 273-234. Third Q.1950. 99.8 B632 English summary.
- 28342 CHATURVEDI, M. D. Slam—the land of freedom and miles of smiles. Indian Forester 76:511-513. Dec.1950. 99.8 In2 Description of forests.
- 28343 HACK, R. B. Notes on trees of Chirinda Forest, Mount Selinda. Rhodesia Agr. J. 47:398-404. Sept./Oct.1950. 24 R34
- 28344 HALLIDAY, W. E. D. Climate, soils, and forests of Canada. Forestry Chron. 26:287-301. Dec. 1950. 99.8 F7623
- 28345 LOWEGREN, G. Los bosques de Suecia y su industria forestal. Mensajero Forest. 8(77):15-17. (Concl.) Oct./Nov.1950. 99.8 M522
- 28346 NORMAND, J. Les bois, les arbres et les forêts en Afrique du Nord. Bois et Sciéries 57:39-40. Jan.11,1951. 99.81 B632
- 28347 RAGÜE MIR, J. Montes forestales y su clasificación. Cult. Mod. 33:379. Oct.1950. 15 C89 Spain.
- 28348 RANDALL, C. E., and HEISLEY, M. F. Our forests: what they are and what they mean to us. U. S. D. A. Misc. P. 162, rev., 38 p. Oct.1950. 1 Ag84M
- 28349 SOCIETY FOR THE PROTECTION OF NEW HAMPSHIRE FORESTS. John Smith Tree Farm, New Hampshire. Concord, 1950? folder. 99.55 S013
- 28350 STAMM, E. P. Our timber resources. Pacific Logging Cong. Loggers Handb. 10:75-82. 1950. 99.76 P112La
- 28351 TALLARICO, G. The Sila Plateau. (In Italian.) Foreste 2:161-165. Dec.1950. 99.8 F7694 Forests.
- 28352 WHITE, F. The forests of Mt. Kenya. Oxford U. Forest Soc. J. (ser.3)5:32-38. 1950. 99.9 Ox2

Individual Genera and Species

- 28353 CABRAL, I. DE A. R. Ecology of the cork trees—its distribution in Portugal. (In Portuguese.) Portugal. Junta Nac. da Cortiça. B. 13(145):13-16. (Cont.) Nov.1950. 309.9 J96
- 28354 ERTELD, W. Der verlauf des umsetzens bei der fichte. Forstwirt. Holzwirt. 4:301-309. Oct.1/15, 1950. 99.8 F7793
- 28355 GADOW, W. VON. Wertleistung der buche. Allg. Forstz. 6:29-30. Jan.17,1950. 99.8 AL52 Germany.
- 28356 HEWETSON, C. E. Occurrence of *Melia composita* (Willd) in Allapalli Range South Chanda, M.P. Indian Forester 76:540. Dec.1950. 99.8 In2
- 28357 HILDEBRAND, F. H. Boonnamenlijst van Java en Madura met aantekeningen over de verspreiding, afmetingen, enz. List of treespecies of Java-Madura with notes on their distribution, dimensions, etc. Indonesia. Bosbouwproefsta. Rap. 35,171 p. July 1950. 99.9 Ea72R
- 28358 HILF, H. H. Der wirtschaftliche wert des pappelmarkenetkett. Allg. Forstz. 6:40-41. Jan.24, 1951. 99.8 AL52
- 28359 KADAMBI, K. Lannea grandis, Engler. Indian Forester 76:529-538. Ref. Dec.1950. 99.8 In2
- 28360 MACKENZIE, A. M. Douglas fir sample plots at Beaufort, Inverness-Shire. Scot. Forestry 4:94-97. Oct.1950. 99.8 Sco3
- 28361 MÉNIAUD, J. L'azobé [*Lophira procera*] et ses utilisations. Bois et Forêts des Trop. 1950:261-266. Third Q.1950. 99.8 B632 English summary.
- 28362 MEYER, A. B. Silent servant. Nat. Mag. 44: 90-91,106. Feb.1951. 409.6 N214 The shortleaf pine.
- 28363 MOSER, A. Die verbuchung des Bayerischen waldes. Allg. Forstz. 6:27-28. Jan.17,1951. 99.8 AL52

- 28364 MÜLLER, R. Die graupappel — *P. canescens* Smith. Allg. Forstz. 6:33-36. Ref. Jan.17,1951. 99.8 AL52
- 28365 REDMOND, J. Abies procera as a timber tree for exposed sites. Scot. Forestry 4:87-93. Oct. 1950. 99.8 Sco3
- 28366 ROSSMÄSSLER. Douglasienanbau. Allg. Forstz. 6:21-23. Jan.10,1951. 99.8 AL52
- 28367 SMITH, N. F. Hackberry—*Celtis occidentalis*, Linnaeus. Mich. Conserv. 20:31-32. Jan./Feb.1951. 279.9 M582
- 28368 WALTER, F. Die Dobritzer kiefernwirtschaft. Forstwirt. Holzwirt. 4:299-301. Oct.1/15,1950. 99.8 F7793
- 28369 WIEDEMANN, E. Der anbau der strobe, insbesondere in Nordwestdeutschland. Landwirtsch. Weser-Ems 97:1057-1058. Dec.14,1950. 18 L2345

FOREST MANAGEMENT AND FINANCE

- 28370 ABETZ, K. Die abgrenzung der einkünfte aus ausserordentlichen waldnutzungen und aus waldnutzungen infolge höherer gewalt auf grund der neuen einkommensteuer-richtlinien. Allg. Forstz. 6:45-46. Jan.24,1951. 99.8 AL52
- 28371 ANTONACCIO, P. A. Plantaciones de eucalip to y sauces-alamos; su costo hasta dos años de efectua das. Asoc. de Ingen. Agron. Rev. 21(88):25-40. Mar. 1950. 290.9 As73
- 28372 BORK, J. H. Management of State forest lands. Forest Notes 14:25-26. Nov.1950. 99.8 F7691 New Hampshire.
- 28373 BRASNETT, N. V. The Brandis system of yield regulation. Oxford U. Forest Soc. J. (ser.3)5:15-22. 1950. 99.9 Ox2
- 28374 CHAPMAN, H. H. Forest management. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p.78-91. Washington, 1950. 99.04 S01
- 28375 CHAUDÉ, P. Les bois sur pied sont-ils trop chers? Acclimatation 78:8. Jan.13,1951. 14 Ac2 France.
- 28376 DESFARGES, P. Bois sur pied—et finances. Bois et Sciéries 56:1202-1203. Dec.28,1950. 99.81 B632 Marketing in France.
- 28377 DIETERICH, V. Richtpunkte zeitgerechter organisation der planungs- und lenkungsarbeit im nicht-staatlichen waldbesitz. Holz-Zentbl. 76:1573-1574. Nov.23,1950. 99.81 H742 Germany.
- 28378 DÖRING, G. Kreditsicherung ist notwendig. Norddeut. Holzwirt. 4(41):1. Oct.12,1950. 99.82 N75
- 28379 FISHER, J. N. We can produce both timber and game. Wis. Conserv. B. 16:3-9. Jan.1951. 279.8 W752 Forest management.
- 28380 FLOROVSKIĬ, A. M. Improvement of forestry in the flood plains of the Lower Dnieper. (In Russian.) Lesn. Khoz. 3(8):44-45. Aug.1950. 99.8 L5622
- 28381 GLOVER, SIR H. Forestry in Austria. Oxford U. Forest Soc. J. (ser.3)5:25-27. 1950. 99.9 Ox2
- 28382 GUBANOV, V. F. To increase the productivity of the machine-tractor park of forest conservation stations. (In Russian.) Les i Step' 2(9):48-52. Sept.1950. 99.8 L565
- 28383 HÖNICKE, K. Technische grundbegriffe. Schatzkammer des Wissens 6,4 p. Nov.9,1950. 99.8 Sch1 Time and motion studies in forestry.
- 28384 IL'IN, B. A. Problems in improving the planning and surveying work [in forestry]. (In Russian.) Lesn. Promysh. 10(8):29-31. Aug.1950. 99.82 L56
- 28385 IOFAN, M. On the production rhythm of forest conservation stations. (In Russian.) Lesn. Khoz. 3(8):57-61. Aug.1950. 99.8 L5622
- 28386 KOROLEFF, A. Possibilities of wood chipping in forest management. Noeast. Wood Util. Council. B. 33: 15-18. Jan.1951. 99.9 N819
- 28387 KRYLOV, V. N. Some unsolved problems of management and organization in the forestry of U.S.S.R. (In Russian.) Lesn. Khoz. 3(8):52-54. Aug.1950. 99.8 L5622
- 28388 LAMOTHE, G. E. Mécanisation forestière. Forêt et Conserv. 2:987-990. Dec.1950. 99.8 F792



28383 LEHMANN, Die verwendung von investitions-mitteln in der forstwirtschaft. Forstwirt. Holzwirt. 4: 312-313. Oct.1/15,1950. 99.8 F7793

28390 LIERSCH, J. E. Some observations on forest-ry practice in Scandinavia. Brit. Columbia Lumberman 35:40-42,94,96. Jan.1951. 99.81 B77

28391 MERKITANOV, G. P. How the communists of Chkalov forest conservation station exert themselves to transform nature. (In Russian.) Les i Step' 2(9):83-86. Sept.1950. 99.8 L565

28392 NOVIKOV, A. I. Valuable practices of the mechanizers of Lvenskai Forest Conservation Station. (In Russian.) Les i Step' 2(9):43-47. Sept.1950. 99.8 L565

28393 OSTWALD, H. Nochmals: geldbilanz in der forstwirtschaft? Holz-Zentbl. 76:1356. Oct.14,1950. 99.81 H742

28394 PEARSON, G. A. Management of ponderosa pine in the Southwest, as developed by research and experimental practice. U. S. D. A. Agr. Monog. 6,218 p. Ref. 1950. 1 Ag84Am

28395 PEITHNER, Z. Sprengarbeit beim güterwegebau in der forstwirtschaft. Österr. Forst- u. Holzwirt. 5:219-220. July 21,1950. 99.81 Os7

28396 PONOMAREV, A. N. On the structure of the cost accounting enterprises of the Ministry of Forestry of U.S.S.R. (In Russian.) Lesn. Khoz. 3(8):54-55. Aug. 1950. 99.8 L5622

28397 SMAGIN, V. N. Experiment in constructing a classification system of forest types in the southern zone of the taiga. (In Russian.) Moskov. Obsch. Isp. Prirody. Otd. Biol. B. (n.s.)75(3):86-89. 1950. 511 M85

28398 SMITH, J. H. G. Forestry can pay! Canad. Pulp & Paper Indus. 4(2):12-14,16. Feb.1951. 302.8 W52

28399 SPEER, J. Grenzen der produktionsfähigkeit der forsten im westdeutschen bundesgebiet. Papier 4: 384-388. Oct.31,1950. 302.8 P1934

28400 TAMARI, C. Zorin gyomu teiyo [Elements of business in afforestation]. Tokyo, Meibundo, 1950. 313 p. 99.47 T15

28401 TAYLOR, D. R. Forestry in old-growth in the Douglas-fir region. J. Forestry 49:35-38. Jan.1951. 99.8 F768

28402 THOMPSON, B. Sloop hauling in relation to forest management. Pulp & Paper Mag. Canada 52:96, 98. Jan.1951. 302.8 P96

28403 WILCKENS. Unkomplizierte einheitsbewertung. Allg. Forstz. 6:37-40. Jan.24,1951. 99.8 AL52

28404 WITTIG. Leistungssteigerung im walde durch neuzeitliche meliorationsmassnahmen in verbindung mit richtiger holzartenwahl. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1788-1789;108A:52,57. (Concl.) Dec.21,1950-Jan.11,1951. 18 L2346

#### Farm Woodlands

28405 BÍÁLYÍ, A. M., and KABANOV, P. G. Silviculture [shelterbelt] and introduction of the grassfield crop rotation system of agriculture on the Nansen State Farm. (In Russian.) Les i Step' 2(9):59-67. Sept.1950. 99.8 L565

28406 CITTADINI, J. C. Especies forestales para cercos en Santa Cruz. IDIA; Inform. de Invest. Agr. 3 (35/36):23-26. Nov./Dec.1950. 9 Id3

28407 HALLOCK, H. Farm forest products of southern Wisconsin. J. Forestry 49:43-44. Jan.1951. 99.8 F768

28408 HARTEL, O. Der bauer und sein wald. Landwirtschaft 1950:336-337. Nov.1950. 19 L235

28409 HUFNAGL, H. Bauernwaldbetreuung auf verbreiteter grundlage. Österr. Forst- u. Holzwirt. 5:233-235. Aug.7,1950. 99.81 Os7

28410 JAMES, N. D. G. Forestry for estate woodlands. 1. Site and non-site factors. Wood [London] 16:15-17. Jan.1951. 99.82 W855

28411 KAYLOR, J. F. Farm forestry. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p.260-271. Washington, 1950. 99.04 Sol

28412 KOROLEFF, A. Action needed for woodlot management promotion. Forestry Chron. 26:317-323. Dec.1950. 99.8 F7623

28413 LENZ, A. Bauernwaldschau in St. Pölten. Landwirtschaft 1950:301-302. Oct.1950. 19 L235

28414 MALSBERGER, H. J. Farm woodland management in the South. Forestry Chron. 26:302-307. Dec. 1950. 99.8 F7623

28415 MOORE, E. B., and LENTZ, A. N. The Co-operative Forest Management Program in New Jersey. J. Forestry 49:31-34. Jan.1951. 99.8 F768

Chiefly farm woodlands.

28416 MÜLLER DEFRAZAS, R. Las plantaciones y reparos forestales. Charla Rur. 145:4-5,53. Nov.1950. 9 C37

28417 PEACE, T. R. Poplar as a farm crop. Gt. Brit. Min. Agr. Agriculture 57:473-477. Jan.1951. 10 G79J

28418 PRESTON, J. F. Be your own woods boss. Rur. New-Yorker 101(5731):2,18. Jan.6,1951. 6 R88

Farm woodland management.

28419 REYNOLDS, R. R. A "poor" farm forestry area. Forest Farmer 10(3):15. Dec.1950. 99.8 F7692

28420 THOMPSON, W. S. Potentialities of the farm woodlot. Ala. Farmer 30(2,1e.3):5,16. Dec.1950. 276.8 AL1

#### Mensuration

28421 CONWAY, E. A. Timber survey of the Hocking State Forest. Ohio. Agr. Expt. Sta. Res. C. 3,29 p. Dec.1950. 100 Oh3R

28422 FOREST RESEARCH INSTITUTE. DEHRA DUN. Yield tables for Acacia mollissima. Forest Res. Inst. Dehra Dun. Indian Forest L. 117,7 p. 1950. 99.9 F768

28423 GEVORKIANTZ, S. R. Distribution of volume in Lake States trees. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 347,1 p. Jan.1951. 1.9 F7625T

28424 HIDE, R. H. The general volume tables of the 1942 census of woodlands. Q. J. Forestry 44:83-87. Apr.1950. 99.8 Q2

28425 HUMMEL, F. C., and WATERS, W. T. General volume table for birch in Great Britain. Gt. Brit. Forestry Comm. Forest Rec. 7,7 p. 1950. 99.9 G795Fo

28426 KADAMBI, K. Unimeter, a versatile field instrument for foresters, surveyors, engineers and plane-tables. Indian Forester 76:408-410. Oct.1950. 99.8 In2

28427 KER, J. W. A test of the accuracy of tree height measurements taken by Abney level and chain. Brit. Columbia Lumberman 35:58,60. Jan.1951. 99.81 B77

28428 MATHAUDA, G. S. A graphical method of stem analysis. Indian Forester 76:414-417. Oct.1950. 99.8 In2

28429 VINCENT, G., KORSUN, F., and ZAVADIL, Z. Les tarifs de production et du cubage pour les peupliers. (In Czech.) Lesn. Práce 29:214-246. Sept.1950. 99.8 L56

French summary.

28430 WORTHINGTON, N. P., and TWERDAL, M. P. Contents of a cord of eight-foot pulpwood. U. S. Forest Serv. Pacific Northwest. Forest & Range Expt. Sta. Res. Note 69,6 p. Sept.1950. 1.9 F7629Fr

28431 ZEHLER. Ein bewährtes gerät für kartierungsarbeiten der forsteinrichtung. Allg. Forstz. 6:6-7. Jan.3, 1950. 99.8 AL52

#### Aerial Surveying and Photography

28432 OSMASTON, H. A. Photogrammetry without funds. Empire Forestry Rev. 29:361-362. Dec.1950. 99.8 Em72

28433 WOOD, K. B. Review of aerial mapping in the logging industry. Pacific Logging Cong. Loggers Handb. 10:55-64. 1950. 99.76 P112La

#### Silviculture

28434 AL'BENSKIÍ, A. V. Predominance of short periods of growth in tree hybrids. (In Russian.) Selekt. Semen. 17(9):70-71. Sept.1950. 61.9 Se5

In Populus breeding.

28435 BAADER, G. Die walderneuerung im gebiet des rheinischen forstvereins. Allg. Forst- u. Hagdtz. 122:27-34. 1950. 99.8 AL3

28436 BAKER, F. S. Silviculture. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p.65-77. Washington, 1950. 99.04 Sol



- 28437 BARÓ ZORRILLA, F. Meteorología y climatología forestales. Montes 6:595-598. Sept./Oct.1950. 99.8 M763 Spain.
- 28438 BIRCH, T. T. C. Some characteristics of exotic forestry in New Zealand. Oxford U. Forest Soc. J. (ser.3)5:23-24. 1950. 99.9 Ox2
- 28439 COTTA, A. Silviculture is basically sociological. (Sum.) Trees & New Earth 14:125-126. Winter 1950/51. 99.8 T714
- 28440 DANNECKER, K. Waldbau als vorratspflege. Allg. Forstz. 6:17-19. Jan.10,1951. 99.8 AL52
- 28441 DAY, W. R. Forest hygiene. II. The imperfection of the environment and its importance in the management of forests. Empire Forestry Rev. 29:307-315. Ref. Dec.1950. 99.8 Em72
- 28442 EN'KOVA, E. I. Two forms of *Quercus robur* [var. *praecox* and var. *tardiflora*] in shelterbelt silviculture. (In Russian.) Les i Step' 2(8):29-33. Aug.1950. 99.8 L565
- 28443 GIBSON, J. M. Historical aspects of applied silviculture in the Eastern region. Forestry Chron. 26:310-316. Dec.1950. 99.8 F7623
- 28444 GÜDE, J. Aufforstungsrückstände. Österr. Forst- u. Holzwirt. 5:165-167,184,186. June 7-21,1950. 99.81 Os7
- 28445 HAUFF, R., SCHLENKER, G., and KRAUSS, G. A. Zur Standortsgliederung im nördlichen Oberschwaben. Allg. Forst- u. Jagdztg. 122:3-12. (To be cont.) 1950. 99.8 AL3
- 28446 IVASYSHIN, S. N. Tree belt plantations at Krasnokutskaja State Breeding Station. (In Russian.) In Krasnokutskaja Gosudarstvennaja Selektšionnaja Stanšija. Sbornik nauchnykh rabot za 1944-1948 gg, p.234-239. Moskva,Gos. Izd-vo Selkhoz Lit-ry,1950. 64.9 K86
- 28447 KISELEV, M. A. Investigation of growth of red oak [*Quercus borealis*] under conditions of Orlov Region. (In Russian.) Lesn. Khoz. 3(8):75-78. Aug.1950. 99.8 L5622
- 28448 KRUTZSCH, H. Walderneuerung. Forstwirt. Holzwirt. 4:292-299. Oct.1/15,1950. 99.8 F7793
- 28449 LOGINOV, L. Z. How we achieved best results in growing *Betula pendula*?. (In Russian.) Les i Step' 2(9):90. Sept.1950. 99.8 L565
- 28450 NICHOLSON, J. H. D. Danish forestry practice. Wood [London] 15:465-467. Dec.1950. 99.82 W855
- 28451 OSTWALD, H. Naturnahe waldwirtschaft. Holz-Zentbl. 76:1405-1407. Oct.24,1950. 99.81 H742
- 28452 OVINGTON, J. D. The afforestation of the Culbin sands. J. Ecol. 38:303-319. Ref. Nov.1950. 450 J829
- 28453 SCHMIDT, Die anbauwürdigkeit seltener fremdbaume im wirtschaftswald. Landwirtbl. Weser-Ems 97:924-925. Nov.2,1950. 18 L2345
- 28454 SMITH, B. J. What is applied silviculture? Forestry Chron. 26:276-278. Dec.1950. 99.8 F7623
- 28455 STOECKELER, J. H., and LIMSTROM, G. A. Reforestation research findings in northern Wisconsin and upper Michigan. U. S. Forest Serv. Lake States Forest Expt. Sta. Paper 23,34 p. Dec.1950. 1.9622 L2St2
- 28456 VASIL'EV, P. Some problems in regard to the effectiveness of shelterbelt silviculture. (In Russian.) Voprosy Ekon. 1950(8):25-38. Aug.1950. 280.8 V89 Economic aspects.
- 28457 WESTBERG, D. L. From scrub hardwood to pine in Alabama. Forest Farmer 10(3):8-9. Dec.1950. 99.8 F7692
- 28458 ZHILIN, F. F. Achievements of foresters on the collective farms in the Don Area. (In Russian.) Les i Step' 2(8):71-74. Aug.1950. 99.8 L565 Shelterbelt silviculture in Rostov Region.
- 28459 ZON, R. How the forest grows as a community. Tree Tips 1950:2. Oct.1950. 99.8 T715
- 28460 AUGUSTIN, R. Erfahrungen und gedanken zum pappelanbau. Forstwirt. Holzwirt. 4:317-318. Oct.1/15, 1950. 99.8 F7793
- 28461 BOBYLEV, G. V. On the care of sown and planted forest. (In Russian.) Lesn. Khoz. 3(8):42-43. Aug.1950. 99.8 L5622
- 28462 BONDARENKO, P. A. Cultivation of *Betula* on sandy soils. (In Russian.) Les i Step' 2(9):87-88. Sept. 1950. 99.8 L565
- 28463 BRUCE, D. Fire, site, and longleaf height growth. J. Forestry 49:25-28. Jan.1951. 99.8 F768
- 28464 ENGLE, L. G. Releasing white pine from oak and aspen. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 346,2 p. Jan.1951. 1.9 F7625T
- 28465 GAVRILOV, B. I. Pinus on the Lower Dnieper sandy soils. (In Russian.) Lesn. Khoz. 3(8):46. Aug. 1950. 99.8 L5622
- 28466 GEORGIEVSKIY, N. P. Concerning the [1948] "Direction on improvement cutting". (In Russian.) Lesn. Khoz. 3(8):39-40. Aug.1950. 99.8 L5622
- 28467 KNEER. Die stammpflege durch aufästung mit dem schoenwaldschen aufästungsgerät. Allg. Forst- u. Jagdztg. 122:36. 1950. 99.8 AL3
- 28468 LEIBUNDGUT, H. Beitrag zur anwendung synthetischer wuchsstoffe im waldbau. Schweiz. Z. f. Forstw. 101:570-574. Oct./Nov.1950. 99.8 J82
- 28469 MCCULLEY, R. D. A check on the effectiveness of ammate in Coastal Virginia. Forest Farmer 10(3):9. Dec.1950. 99.8 F7692 For tree killing.
- 28470 MATSON, E. E., and RAPRAEGER, H. A. Fall Creek second-growth Douglas-fir thinning study. U. S. Forest Serv. Pacific Nowest. Forest & Range Expt. Sta. Res. Note 90,13 p. Nov.1950. 1.9 F7629Fr
- 28471 NENAROKOMOV, A. V. Well-timed plowing—urgent problem of forest conservation stations. (In Russian.) Les i Step' 2(9):53-54. Sept.1950. 99.8 L565
- 28472 PAUL, B. H. Quality of second-growth Douglas-fir and suggested means of improvement. Forest Prod. Res. Soc. Proc. 4:16-23. 1950. 99.9 F7662P Includes discussion.
- 28473 SHCHERBACHEV, V. D. Age suitable for cutting birch plantations. (In Russian.) Lesn. Khoz. 3(8):41. Aug.1950. 99.8 L5622
- 28474 SINGH, D. P. Cultivation of willows and poplars in Lahaul. Indian Forester 76:526-527. Dec.1950. 99.8 In2
- 28475 VENTZ, E. Jungwuchspflege und läuterung. Erfahrungen im Stadforstamt Baden-Baden. Allg. Forstz. 6:9-11. Jan.3,1951. 99.8 AL52
- 28476 VOROPANOV, P. V., and LEUKHINA, T. A. Changes in the vegetative organs of fir under the influence of cutting systems. (In Russian.) Lesn. Khoz. 3(8):34-38. Aug.1950. 99.8 L5622
- 28477 WALTERS, C. S., KULP, D. A., and FOX, H. W. Stumps too wet to burn. Ill. Agr. Expt. Sta. Dept. Forestry. Forestry Note 19,2 p. Dec.1,1950. 99.9 IL62
- 28478 WOLRYCHE-WHITMORE, G. C. Brushing and pruning conifer plantations. Q. J. Forestry 44:74-77. Apr.1950. 99.8 Q2
- 28479 WOOD, L. B. Controlled burning—yes and no. Fla. Grower 59(2):12. Feb.1951. 80 F6622

## Seeding and Planting

- 28480 BITTERLICH, W. Neuer kulturbehelf für forstsaaten. Österr. Forst- u. Holzwirt. 5:264-265. Sept.7,1950. 99.81 Os7
- 28481 FINNIS, J. M. Seed maturity in Douglas fir. Brit. Columbia Forest Serv. Res. Notes 18,4 p. 1950. 99.9 B771
- 28482 GLAZEBROOK, J. H. Propagation. 4. Pricking out and outdoor seed sowing of conifers. Lincoln Col. Bur. Educ. B. 5:126-129. Sept.1950. 109 C162
- 28483 GRANO, C. X., and MANN, W. F., JR. Emergency use of wildling pine planting stock. Forest Farmer 10(3):5. Dec.1950. 99.8 F7692
- 28484 HART, C. E. The forest tree breeding research work in Denmark of Dr. C. Syrach Larsen. Roy. Inst. Chartered Surveyors. J. 30:574-580. Jan.1951. 282.9 C38J
- 28485 HULL, A. C. JR., and DORAN, C. W. Preliminary guide to reseeding pinyon-juniper lands of western Colorado. U. S. Forest Serv. Rocky Mountain Forest & Range Expt. Sta. Paper 4,16 p. Dec.1950. 1.9622 R2St2 Chiefly *Pinus cembroides* and *Juniperus*.
- 28486 ISACHENKO, KH. M. Again on rational norms of seeds for sowing tree and shrub species. (In Russian.) Les i Step' 2(8):24-28. Aug.1950. 99.8 L565 In forest nurseries.

## Silvicultural Practices

- 28460 AUGUSTIN, R. Erfahrungen und gedanken zum pappelanbau. Forstwirt. Holzwirt. 4:317-318. Oct.1/15, 1950. 99.8 F7793
- 28461 BOBYLEV, G. V. On the care of sown and planted forest. (In Russian.) Lesn. Khoz. 3(8):42-43. Aug.1950. 99.8 L5622



- 28487 KOCHKAR', N. T. Relationship of Pinus seed yields and their germination to size of cones. (In Russian.) Lesn. Khoz. 3(8):82-83. Aug. 1950. 99.8 L5622
- 28488 LAZAREVICH, I. I. Experiment in growing black saxoul [Haloxylon ammodendron] in the sandy desert of Middle Asia. (In Russian.) Karakulevodstvo i Zverovodstvo 3(4):27-31. July/Aug. 1950. 49 K14  
In connection with afforestation and its effect on pastures.
- 28489 LEITAO, A. B. Forestry improvement. (In Portuguese.) Agros [Lisboa] 33:247-255. Sept./Oct. 1950. 15.5 A82  
Genetics.
- 28490 LYSENKO, T. D. On partial changes in the instruction for 1950 on shelterbelt planting by the group method. (In Russian.) Les i Step' 2(9):7-8. Sept. 1950. 99.8 L565
- 28491 MARDZHANISHVILI, A. Testing of SLN-1 and SLCH-1 tree planting machines. (In Russian.) Lesn. Khoz. 3(8):62-63. Aug. 1950. 99.8 L5622
- 28492 MARRERO, J. Results of forest planting in the insular forests of Puerto Rico. Caribbean Forester 11: 107-147. Ref. July 1950. 1.9622 T2C23
- 28493 MOLCHANOV, A. A. Fruit-bearing of fir [Picea] in connection with types of forests. (In Russian.) Moskov. Obshch. Isp. Prirody. Otd. Biol. B. (n.s.) 75(4): 95-108. 1950. 511 M85
- 28494 NIKITIN, I. N. Methods for autumn planting of acorns. (In Russian.) Les i Step' 2(9):27-32. Sept. 1950. 99.8 L565
- 28495 PASECHNIK, S. Practices of forester, V. A. Karmalik, in growing planting stock. (In Russian.) Lesn. Khoz. 3(8):72-73. Aug. 1950. 99.8 L5622
- 28496 PAVLENKO, F. A. Achievements of the Krasnograd forest nursery in its effort to surpass the plan of seedling production. (In Russian.) Les i Step' 2(9):68-73. Sept. 1950. 99.8 L565
- 28497 PINCHUK, M. G. How to procure, transport and store acorns. (In Russian.) Les i Step' 2(9):91-93. Sept. 1950. 99.8 L565
- 28498 PRAVDIN, L. F. To preserve the viability of acorns during storage. (In Russian.) Les i Step' 2(9): 33-36. Sept. 1950. 99.8 L565
- 28499 ROHMEDER, E. Forstsaatgutgewinnung aus samenplantagen. Deut. Baumsch. 2:287-291. Dec. 1, 1950. 80 D486
- 28500 ROPER, G. D. Planting for £12 an acre. Q. J. Forestry 44:88-90. Apr. 1950. 99.8 Q2
- 28501 RUDOLF, P. O. Lake States forest trees produce good seed crop in 1950. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 349, 2 p. Jan. 1951. 1.9 F7625St
- 28502 SARVAS, R. Effect of light on the germination of forest tree seeds. Oikos 2:109-119. Ref. 1950. 410 O14
- 28503 STOECKELER, J. H. Proper watering in the nursery produces drought-hardy jack pine. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 348, 1 p. Jan. 1951. 1.9 F7625St
- 28504 TROUSDELL, K. B. The 1951 loblolly pine cone crop. Va. Forests 5(6):14, 16. Nov./Dec. 1950. 99.8 V81
- 28505 VAARTAJA, O. On factors affecting the initial development of pine. Oikos 2:89-108. Ref. 1950. 410 O14
- 28506 VAKULIUK, G. Seed plots of Euonymus verrucosus. (In Russian.) Lesn. Khoz. 3(8):74. Aug. 1950. 99.8 L5622
- 28507 WAGNER, P. Breeding forest trees. Land 9: 538. Winter 1950/51. 279.8 L22  
Work of the Institute of Forest Genetics.
- 28508 WAISMAN, I. Cómo se preparan y emplean las estacas en la plantación de árboles. Selec. Rur. 6: 72-73. Oct./Dec. 1950. 9.9 Se4
- 28509 ZABOROVSKIĬ, E. P. Preparation of Robinia pseudoacacia seeds for germination. (In Russian.) Lesn. Khoz. 3(8):70-71. Aug. 1950. 99.8 L5622

#### Forest Protection and Damage

- 28510 DEPPENMEIER, E. Leistungssteigerung im walde durch wirtschaftliche schadverhütung. Norddeut. Holzwirt. 4(46):9. Nov. 16, 1950. 99.82 N75
- 28511 GISBORNE, H. T. Forest protection. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p. 30-64. Washington, 1950. 99.04 Sol

- 28512 HANSBROUGH, J. R., and others. Excessive birch mortality in the Northeast. Tree Pest L. 52, 4 p. Ref. Oct. 1950. 423.9 M38  
V. S. Jensen, H. J. MacAloney, and R. W. Nash, joint authors.
- 28513 KÖNIG, E. Baumbeschädigungen durch spechte Norddeut. Holzwirt. 4(48):6. Nov. 30, 1950. 99.82 N75
- 28514 LIKHACHEV, G. N. On the control of mice-like rodents. (In Russian.) Lesn. Khoz. 3(6):77. June 1950. 99.8 L5622  
Forest pests.
- 28515 SCHREITER, G. Das wild im wirtschaftswald. Forstwirt. Holzwirt. 4:316-317. Oct. 1/15, 1950. 99.8 F7793

#### Fire

- 28516 FEDRUNOV, V. V. Organization for extinguishing forest fires. (In Russian.) Lesn. Khoz. 3(8):88. Aug. 1950. 99.8 L5622  
Voluntary crews from local population.
- 28517 HEWETSON, C. E. Seventy-five years fire protection in the Tropics. Allapalli Forest Reserve, South Chanda Madhya Pradesh (Central Provinces) India (Bharat). Empire Forestry Rev. 29:339-350. Dec. 1950. 99.8 Em72
- 28518 KEENLEYSIDE, I. The aerial egg-beater and the forest fire. Thunder Bay Timber Oper. Assoc. Log Book 2(4):8-9. Nov. 1950. 99.8 T42  
Helicopters.
- 28519 LOS ANGELES COUNTY. DEPT. OF FOREST-ER AND FIRE WARDEN. Annual report, June 30, 1950. n.p., 1950. 66 p. 99.9 L89  
Includes reports of County Fire Protection Districts.
- 28520 MCKEE, R. G. Slash problems in British Columbia. Brit. Columbia Lumberman 35:106, 108, 110. Jan. 1951. 99.81 B77  
Fire hazard.
- 28521 MEYER, A. B. A story of radio and forest fires. Mo. Conserv. 12:1-3. Jan. 1951. 279.8 M69
- 28522 NIELAND, L. T. A way to prevent woods fires; costs so little yet saves so much. Fla. Grower 59(2):30. Feb. 1951. 80 F6622
- 28523 POMEROY, K. B. Twenty years without fire protection. Forest Farmer 10(3):12. Dec. 1950. 99.8 F7692
- 28524 SCHOEN, P. W. Are you burning dollar bills? Prog. Farmer, Tex. Ed. 66(2):66, 68-69. Feb. 1951. 6 T311  
Forest fire prevention.
- 28525 WEATHERBY, H. Fire control at Northwest Bay. Brit. Columbia Lumberman 35:38, 92, 94. Jan. 1951. 99.81 B77
- 28526 YARHAM, E. R. Britain's burning. Brit. Columbia Lumberman 35:69-70. Jan. 1951. 99.81 B77  
Control of forest fires.

#### Forest Influences

- 28527 DELOACH, G. Water and land management. Forest Farmer 10(3):7. Dec. 1950. 99.8 F7692  
Includes forest influences.
- 28528 FRANK, B. Forest influences. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p. 148-164. Washington, 1950. 99.04 Sol
- 28529 FRANTZ, H. R. Water supply and forest management—partners. Forest Leaves 35(5):1-2. Nov./Dec. 1950. 99.8 F763
- 28530 FUCHS, H. Zur wasserstandsfrage und wasserpflege. Forstl. Mitt. 3:177. (Cont.) Nov. 20, 1950. 99.8 F7725
- 28531 HOSKINS, C. M. Forests in relation to soil and water conservation. Soil Sci. Soc. Philippines. J. 268-270. Fourth Q. 1950. 56.9 So35
- 28532 L'VOVICH, M. I. Methods for calculating the anticipated changes in river systems under the influence of the accomplished shelterbelt plan. (In Russian.) Akad. Nauk SSSR. Dok. 75:193-195. Nov. 11, 1950. 511 P444A
- 28533 STECKHAN, H. Klima, boden und windschutz. II. Unser Wald 3(3):15-18. Mar. 1950. 99.8 Un7
- 28534 WEIR, R. The woodman's axe in the borders. Trees & New Earth 14:133-135. Winter 1950/51. 99.8 T714  
Forest influences.



## Miscellaneous Forest Uses

- 28535 BUMP, G. Wildlife habitat changes in the Connecticut Hill Game Management area; their effect on certain species of wildlife over a twenty-year period. N. Y. (Cornell) Agr. Expt. Sta. Mem. 289,75 p. Ref. Nov. 1950. 100 N48C
- 28536 CHASE, W. W. Forest wildlife management. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p.136-147. Washington, 1950. 99.04 Sol
- 28537 PRAKASH, M. Recreational value of forests. Trees & New Earth 14:140-142. Winter 1950/51. 99.8 T714
- 28538 UTAH. BIG GAME, LIVESTOCK, AND RANGE RELATIONSHIP PROJECT. RESEARCH COMMITTEE. A review of Utah's big game, livestock, and range relationship problems. U. S. Forest Serv. Intermountain Forest & Range Expt. Sta. Res. Paper 24,53 p. Ref. Sept. 1950. 1.9622 I2R31

## FOREST INDUSTRIES

- 28539 BOMFIM, S. Wood economy. (In Portuguese.) Assoc. Com. do Amazonas. B. 9(106):3-8. May 1950. 286.9 As7B  
The mahogany industry in Amazonia.
- 28540 CAMPREDON, J. Industries et commerce du bois. Paris, Presses Universitaires de France, 1950. 116 p. ("Que sais-je?") Le Point des Connaissances Actuelles, No. 404. 99.77 C15
- 28541 CHARLES, A. La France, marché européen des bois exotiques. Rev. du Bois 5(spec.no.):20-22. Dec. 1950. 99.82 R32
- 28542 DUBRET, R. Aurons-nous des clients? Bois et Scieries 57:27,29-31. Jan. 11, 1951. 99.81 B632  
Wood marketing in France.
- 28543 DUBRET, R. La leçon des ventes. Bois et Scieries 56:1148-1149, 1151, 1153, 1171, 1173, 1175, 1177, 1194-1195, 1197. Dec. 14-28, 1950. 99.81 B632
- 28544 FOUARGE, J. Qualités de nos bois du Congo: leur aptitude à satisfaire aux besoins de la Métropole. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):566. 1950. 388 C765
- 28545 FRIEDRICH, R. Die kardinalfrage der forstlichen preisbildung. Holz-Zentbl. 76:1505-1506. Nov. 11, 1950. 99.81 H742
- 28546 HANRAHAN, F. J. Lumber research to meet modern competition. Forest Prod. Res. Soc. Proc. 4:53-60. 1950. 99.9 F7662P  
Includes discussion.  
Also in Timber Canada 11(6):37-39, 85-98. Feb. 1951. 99.81 T487
- 28547 HANSON, J. Wood-using industries of Lower Peninsula. Mich. Conserv. 20:13-14, 27-29. Jan./Feb. 1951. 279.9 M582
- 28548 HENRICH, W. Schwedisches mosaik. Nord-deut. Holzwirt. 4(50):1-2. Dec. 14, 1950. 99.82 N75  
Lumber trade.
- 28549 KRUG, Les industries du bois. Rev. du Bois 5(spec.no.):23. Dec. 1950. 99.82 R32
- 28550 LATHAM, B. A historical survey of the timber trade. 1. The small roots. Wood [London] 16:21-23. Jan. 1951. 99.82 W855
- 28551 LEBACQ, L. L'exploitation des bois coloniaux. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):566-567. 1950. 388 C765  
Belgian colonies.
- 28552 LECLÈRE, A. Le contrat d'entreprise dans les exploitations de coupes. Bois 67(12):1,3. Nov. 25/30, 1950. 99.82 B632
- 28553 LECLÈRE, A. Dans les ventes de coupes domaniales; les conditions dans lesquelles la caution peut être déchargée de son obligation. Bois 68:1,3. Jan. 10/15, 1951. 99.82 B632  
France.
- 28554 LETELLIER, M. La France et les bois du nord. Rev. du Bois 5(spec.no.):14-15. Dec. 1950. 99.82 R32  
Scandinavian trade.
- 28555 LONGHURST, S. C. Forestry and the home grown timber trade. Oxford U. Forest Soc. J. (ser.3):5:41-44. 1950. 99.9 Ox2
- 28556 MADRE, B. L'exportation des bois bruts et ses conséquences sur le marché intérieur. Rev. du Bois 5(spec.no.):7-9. Dec. 1950. 99.82 R32  
France.

- 28557 MALLINSON, R. F. A., and GRUGEON, R. Timber trade practice. London, Cleaver-Hume, 1950. 246 p. 99.76 M29
- 28558 MEMBRÉ, Grandeur et servitude du métier de courtier. Rev. du Bois 5(spec.no.):10-11. Dec. 1950. 99.82 R32
- 28559 MENIAUD, Les bois de nos territoires d'outre-mer. Rev. du Bois 5(spec.no.):12-13. Dec. 1950. 99.82 R32
- 28560 MORAND, J. Les forêts toujours à l'honneur. Bois et Scieries 57:34-35. Jan. 11, 1951. 99.81 B632  
Wood selling in France.
- 28561 NELSON, A. Z. Do we need lumber price controls? Amer. Forests 57(2):6-9, 32. Feb. 1951. 99.8 F762
- 28562 PELLÉ, R. S. Forest industries—Sierra Leone. Empire Forestry Rev. 29:351-360. Dec. 1950. 99.8 Em72
- 28563 RAZOUS, P. Les débouchés des exploitations forestières françaises. Bois et Scieries 56:1153-1154, 1199, 1201; 57:31-32. Dec. 14, 28, 1950, Jan. 11, 1951. 99.81 B632
- 28564 RIEUF, H. Le problème de la productivité. Bois 68:2. Jan. 10/15, 1951. 99.82 B632
- 28565 ROSENMARK, P. Les problèmes de l'importation des bois d'Europe centrale. Rev. du Bois 5(spec.no.):16-17. Dec. 1950. 99.82 R32
- 28566 SCHÖNHERR, H. Die deutsche bundesbahn am holzmarkt. Holz-Zentbl. 76:1445-1446. Oct. 31, 1950. 99.81 H742
- 28567 SPEER, J. Forst- und holzbilanz der Bundesrepublik Deutschland im forstwirtschaftsjahr 1950. Allg. Forstz. 6:1-6. Jan. 3, 1951. 99.8 AL52
- 28568 TRÜSTEDT, H. Der westdeutsche holzaussenhandel nach dem kriege. Forst u. Holz 5:350-351. Nov. 15, 1950. 99.8 F7724
- 28569 WACHA, R. Der Italienexport an einer kritischen wende. Österr. Forst- u. Holzwirt. 5:181-182. June 21, 1950. 99.81 Os7  
The lumber trade.

## Lumbering

- 28570 CALDER, M. V. Road and extraction problems in Malaya. Oxford U. Forest Soc. J. (ser.3):5:11-15. 1950. 99.9 Ox2
- 28571 HOOKER, L. W. The causes of woods accidents. Wood [Chicago] 6(2):27, 39-41. Feb. 1951. 99.82 W859
- 28572 KUVALDIN, B. I. On Russian priority in the construction of narrow-gauge railroads. (In Russian.) Lesn. Promysh. 10(8):11-13. Ref. Aug. 1950. 99.82 L56  
For log transportation.
- 28573 LOCKARD, C. R. Hardwood log-grading—a phase of quality control. Forest Prod. Res. Soc. Proc. 4:61-69. 1950. 99.9 F7662P
- 28574 MAHEU, C. F. Opérations forestières sur la côte Pacifique. Bois et Forêts des Trop. 1950:247-260. (Cont.) Third Q. 1950. 99.8 B632  
English summary.
- 28575 NOSOV, I. K. Result of planning removed from production. (In Russian.) Lesn. Khoz. 3(8):55-56. Aug. 1950. 99.8 L5622  
Financial status of Novospasskiy lumbering enterprise.
- 28576 SMITH, J. T. Exploitation and milling of smaller timber in Scotland, especially softwood thinnings. Empire Forestry Rev. 29:334-338. Dec. 1950. 99.8 Em72
- 28577 VOGELGESANG, H. Die ehemaligen flossholzbezüge aus dem böhmischen moldauegebiet. Holz-Zentbl. 76:1383-1384. Oct. 19, 1950. 99.81 H742
- 28578 ZAV'IALOV, M. A. Mechanization of the laying out of the narrow-gauge roads for log transportation. (In Russian.) Lesn. Promysh. 10(8):14-15. Aug. 1950. 99.82 L56

## Lumbering Equipment

- 28579 FENTON, R. H. A pilot study of the use of light portable wood chippers. Noeast. Wood Util. Council. B. 33:41-47. Jan. 1951. 99.9 N819
- 28580 FOBES, E. W. Portable wood-chipping equipment. Noeast. Wood Util. Council. B. 33:27-40. Jan. 1951. 99.9 N819
- 28581 FRITZ, E. Chain saws for ripping logs; improvement in grades secured in redwood operations. Pacific Logging Cong. Loggers Handb. 10:83-85. 1950. 99.76 P112La



28582 GASTEV, B. G. To improve the utilization of automobiles at the logging sites in White Russia. (In Russian.) Lesn. Promysh. 10(8):10-11. Aug.1950. 99.82 L56

28583 GUNNASON, J. Modern machinery takes back-work out of logging. Veneers & Plywood 45(2):12-13. Feb.1951. 99.82 V55

28584 HALL, M. A. Big-scale motorizing for timber lands. Timber Canada 11(5):26-28,60. Jan.1951. 99.81 T487

28585 HEUELL, Ein verbesserter holzrückwagen. Holz-Zentbl. 76:1533. Nov.16,1950. 99.81 H742

28586 LIPKA, W. Rechenschieber zur Ermittlung von kreissägendurchmessern. Holz 4:225-226. Nov.1950. 99.82 H743

28587 MILLER, M. S. Log hauling with winches under mountain conditions. (In Russian.) Lesn. Promysh. 10(8):7-9. Aug.1950. 99.82 L56

28588 MORGAN, J. T. Stationary chippers for processing low-quality and waste wood. Noeast. Wood Util. Council. B. 33:19-26. Jan.1951. 99.9 N819

28589 SHAW, E. W. A tree shield to prevent skidding injury. J. Forestry 49:45-46. Jan.1951. 99.8 F768

28590 SHCHIGIN, M. I., and RAKHMANKIN, S. G. We are eliminating the defects in electrical equipment. (In Russian.) Lesn. Promysh. 10(8):19-20. Aug.1950. 99.82 L56

Electric saws.

### Logging

28591 ATKINSON, C. C. Yarding of 4-foot sap peeled pulpwood with Ford wheeled tractor with bombardier track conversion. Pulp & Paper Mag. Canada 52:111. Jan.1951. 302.8 P96

28592 GLIDDON, C. Floating log flume. Pulp & Paper Mag. Canada 52:94-95,106. Jan.1951. 302.8 P96

28593 HARKNESS, W. D. Recent changes in logging methods at Marathon. Thunder Bay Timber Oper. Assoc. Log Book 2(4):4,22. Nov.1950. 99.8 T42

28594 IVANOV, M. M. Hauling of whole [felled] trees at Sivinskii logging enterprise. (In Russian.) Lesn. Promysh. 10(8):6-7. Aug.1950. 99.82 L56

28595 JOHNSTON, W. B., SR. Virgin white pine trees still being logged in the Park Falls area. Timber Prod. Assoc. B. 94:4. Jan.1951. 99.9 T492B

28596 LARIONOV, A. I. On the new technology in logging. (In Russian.) Lesn. Promysh. 10(8):4-5. Aug.1950. 99.82 L56

28597 MCCOLL, B. J. Problems in mechanical hauling from the stump. Pulp & Paper Mag. Canada 52:99, 101-102,105-106. Jan.1951. 302.8 P96

28598 MCNALLY, J. A. Farm tractor sloop hauling. Pulp & Paper Mag. Canada 52:110. Jan.1951. 302.8 P96

28599 MONTGOMERY, R. H. Farm tractor haul. Pulp & Paper Mag. Canada 52:109-110. Jan.1951. 302.8 P96

28600 PACIFIC LOGGING CONGRESS. Loggers handbook, v. 10. Portland,Oreg.,1950. 85 p. 99.76 P112La

28601 ROTTIER, J. Green harvest at less cost. Pulp & Paper 25(2):74,76. Feb.1951. 302.8 P11 Mechanization.

28602 SCHULZE-MANITIUS, H. Flossholz-förderung Forst u. Holz 5:354-355. Nov.15,1950. 99.8 F7724

28603 SIMMONS, F. C. Northeastern loggers' handbook. U. S. D. A. Agr. Handbk. 6,160 p. Jan.1951. 1 Ag84Ah

28604 STAMM, E. P. Power vs. hand falling and bucking in logging operations of the West. Forest Prod. Res. Soc. Proc. 4:138-141. 1950. 99.9 F7662P

Includes discussion.

28605 TRUFANOV, A. A. Selection of cross-section in fastenings of booms. (In Russian.) Lesn. Promysh. 10(8):20-23. Aug.1950. 99.82 L56

28606 VARENIK, I. P. Utilization of logging waste. (In Russian.) Lesn. Khoz. 3(8):89. Aug.1950. 99.8 L5622

### Sawmills

28607 BRACHMANN-NAGEL, E. Eindrücke von der schwedischen expertise über die österreichische säge-industrie. Osterr. Forst- u. Holzwirt. 5:229-231,248-249, 262-264. Aug.7-Sept.7,1950. 99.81 Os7

28608 DIEDERICH, Der riss im kreissägeblatt. Norddeut. Holzwirt. 5:7-8. Jan.4,1951. 99.82 N75

28609 EISELE, A. Lehrberuf oder anlernberuf im sägewerk? Holz-Zentbl. 76:1432. Oct.28,1950. 99.81 H742

28610 GOTTlieb, F. Zum aufsatz: richtige säge-werksplanung. Osterr. Forst- u. Holzwirt. 5:231-233. Aug.7,1950. 99.81 Os7

28611 GRANTHAM, J. B. Quality control in sawmill operations as practiced in class 'A' Douglas fir mills. Forest Prod. Res. Soc. Proc. 4:149-161. 1950. 99.9 F7662P

Includes discussion.

28612 GULOWSEN, K. T. Concerning the selection of sawmill machinery, translated by E. Seiman-Towt. Apr. 1950. 7 p. Translation 6396.

Translated from Norsk Skogindustri 3:283-287. 1949.

28613 HETTERICH, G. Um einen gerechten gatter-akkord. Holz-Zentbl. 76:1418. Oct.26,1950. 99.81 H742

Germany.

28614 HORDERN, R. H. Sawmilling practice. Wood [London] 16:30-32. Jan.1951. 99.82 W855

28615 HYLER, J. E. Sawing and chucking operations. South. Lumberman 182(2276):54-55,58,60. Feb.1,1951. 99.81 So82

28616 KAYUKOVA, M. V., and KONYUKHOV, D. N. Research on circular saws and the cutting process when they are used, translation by P. A. Gibson. 1950. 12 p. Translation 6398.

Translated from Woodworking Industries (Moscow) 1934(11):36-55;1935(1):29-39.

28617 KRAMER, O. Der elektrische betrieb von sägewerken. Osterr. Forst- u. Holzwirt. 5:187-189. (To be cont.) June 21,1950. 99.81 Os7

28618 LEYVA ALVARADO, M. Prevención de ven-teos o rajaduras superficiales y en los extremos de madera de pino aserrada. B. Forest. 2(25):21-22. Nov. 1950. 99.8 B633

28619 POPOV, N. A. On types and allocation of sawmill and woodworking enterprises. (In Russian.) Lesn. Promysh. 10(8):23-25. Aug.1950. 99.82 L56

28620 REINEKE, L. H. Sawteeth in action. Forest Prod. Res. Soc. Proc. 4:32-52. 1950. 99.9 F7662P

Includes discussion.

Also in Paper Trade J. 132(4):16,18-20,22,26,28-31.

28621 VOELSKOW, P. Nochmals: kreissägeblätter und rückschlagsicherheit. Holz 4:243-244. Dec.1950. 99.82 H743

28622 VOELSKOW, P. Rückschlagsursachen und deren verhinderung praktische ratschläge für die arbeit mit holzkreissägen. Holz-Zentbl. 76:1284-1285. Sept.30, 1950. 99.81 H742

### Processing and Woodworking

28623 BAILEY, N. Air compressors in the wood-working industry. Wood Working Digest 53:71-74,76. Jan.1951. 99.82 W87

28624 FINN, H. Costs and quality results from use of a very high feed-speed moulder. Wood Prod. 56:33-34. Jan.1951. 99.82 W856

28625 HAYCOCK, A. H. Principles of machine wood-working. Pre-formed cutters. 2. Wood [London] 15:470-472. Dec.1950. 99.82 W855

28626 HEINRICH, K. Neuartige in den USA entwickelte biegevorrichtung für sperrholz u dergl. Holz 4:239-240. Dec.1950. 99.82 H743

28627 HYLER, J. E. How to lock miters and obtain correct joint angles in end-to-end wood joinery. Natl. Hardwood Mag. 25:35-37. Feb.1951. 99.81 N212

28628 HYLER, J. E. Woodworking knife and cutter application. XI. South. Lumberman 182(2275):56,58-59. Jan.15,1951. 99.81 So82

28629 LARSON, E. T. Keen edges are the answer to keen competition. Wood Working Digest 52(11):43-46. Nov.1950. 99.82 W87

Woodworking tools.

28630 MAHLER, N. Strukturbild des holzverarbeitenden handwerks in Württemberg-Baden. Holz-Zentbl. 76:1371-1372. Oct.17,1950. 99.81 H742

28631 MÜLLER-THOMAS, Eine bessere verwertung des pappelholzes. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1559-1560,1637. (To be cont.) Nov.9-23, 1950. 18 L2346

28632 MURRAY, D. Wood engineering in Scotland. Wood Working Digest 52(11):49-52,54,56. Nov.1950. 99.82 W87



- 28633 PERRY, T. D. Cutting technique for wood. Wood Working Digest 52(11):75-78,80,82-83;(12):89-92, 94,96-100. Nov.-Dec.1950. 99.82 W87
- 28634 PERRY, T. D. Intelligent design helps restrain moisture stress. Canad. Woodworker 50(12):31-32,36. Dec.1950. 99.82 C162
- 28635 REIMANN, W. Stand der werkzeuge für holzbearbeitung. Holz-Zentbl. 76:1573,1578-1579. Nov.23, 1950. 99.81 H742

28636 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Partial list of publications for furniture manufacturers, woodworkers and teachers of wood shop practice. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1775.14 p. Dec.1950. 1.9 F761R

28637 VEDRENNE, J. Menuiserie en série. Rev. du Bois 5(spec.no.):28-29. Dec.1950. 99.82 R32

28638 VOELSKOW, P. Oberfräswerkzeuge. Holz 4: 214-217. Nov.1950. 99.82 H743

28639 VOGEL, F. H. Impregnation of wood with solid metal alloys. Forest Prod. Res. Soc. Proc. 4:199-202. 1950. 99.9 F7662P

Includes discussion.

28640 WEINGARTEN, H. Normung von fenstern und türen; mitarbeit der bauzubehörindustrie nötig. Holz-Zentbl. 76:1235-1236. Sept.21,1950. 99.81 H742  
Also in Norddeut. Holzwirt. 4(45):1-2. Nov.9,1950. 99.82 N75

#### Seasoning, Conditioning and Finishing

28641 BATESON, R. G. The care of building timber. Wood [London] 15:462-464. Dec.1950. 99.82 W855

28642 BROWNE, F. L. The two-coat system of house painting. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1259,rev.,21 p. Ref. Nov.1950. 1.9 F761R

28643 CAMPREDON, J. Les appareils électriques de mesure d'humidité. Bois 67(12):1,3. Nov.25/30,1950. 99.82 B632

28644 CONNELLY, H. H. How is your sanding I.Q.? 2. Wood Working Digest 52(12):155-156,158,160,162-164. Dec.1950. 99.82 W87

28645 CZEPEK, E. Holz Trocknung mit temperaturen über 100° C. Holz 4:246-247. Dec.1950. 99.82 H743

28646 INSTITUT NATIONAL DU BOIS. Mesure du degré d'humidité des bois. Inst. Natl. du Bois. Étude Tech. 4,5 p. Oct.1950. 99.9 P21E

28647 KÖNIG, E. Die grenzen der natürlichen holztrocknung. Norddeut. Holzwirt. 4(49):6-7. Dec.7,1950. 99.82 N75

28648 LEYVA ALVARADO, M. Secado a intemperie de maderas de pino. B. Forest. 2(25):9-19. Nov.1950. 99.8 B633

28649 MCMILLEN, J. M. How can maple and birch sapwood be dried without sticker stain? U. S. Forest Serv. Forest Prod. Lab. News & Views This Kiln Drying Business. Rpt. D1769-6,1 p. Sept.1950. 1.9 F761R

28650 MANSON, B. C. Quality control and the improved seasoning processes of the redwood industry. Forest Prod. Res. Soc. Proc. 4:29-35. 1950. 99.9 F7662P

Includes discussion.

28651 MILLET, R. S., and GLENNIE, A. G. Modern kiln equipment reduces seasoning growth. Canad. Woodworker 50(12):28-29,40-42,58. Dec.1950. 99.82 C162

28652 PECK, E. C. Air drying of lumber. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1657,rev.,18 p. Nov.1950. 1.9 F761R

28653 PERRY, T. D. Climate and woodwork. Wood Prod. 56:29-31. Jan.1951. 99.82 W856

28654 RASMUSSEN, E. F., and MCMILLEN, J. M. Seasoning of white oak for tight cooperage. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1784,15 p. Nov.1950. 1.9 F761R

28655 REHMAN, M. A. Seasoning practices and manufacturing operations followed by various wood working industries of U.S.A., Canada and England. III. Indian Forester 76:411-413. Oct.1950. 99.8 In2

28656 RIETZ, R. C. Importance of dry lumber. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1779,7 p. 1950. 1.9 F761R

28657 RIETZ, R. C. What are the advantages and disadvantages of the package-loaded, trackless dry kiln? U. S. Forest Serv. Forest Prod. Lab. News & Views This Kiln Drying Business. Rpt. D1769-7,1 p. Nov.1950. 1.9 F761R

28658 RIETZ, R. C. What are the principal advantages in seasoning lumber? U. S. Forest Serv. Forest Prod. Lab. News & Views This Kiln Drying Business. Rpt. D1769-5,1 p. Aug.1950. 1.9 F761R

28659 STEEL, J. Major problems and trends in kiln drying lumber in the West. Wood Working Digest 52(11): 65-66,68,70-73. Nov.1950. 99.82 W87

28660 TIEMANN, H. D. The kiln-drying of lumber. 25. Explanation of dielectric method of drying. South. Lumberman 182(2275):48,52,54,56. Jan.15,1951. 99.81 So82

28661 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on the seasoning of wood. U. S. Forest Serv. Forest Prod. Lab. Rpt. R446, 17 p. Oct.1950. 1.9 F761R

#### Wood Preservation and Damage

28662 BAVENDAMM, W. Die beurteilung der toxischen wirkung der holzschutzmittel. (Sum.) Angew. Chem. (Ausg. A) 62:540. Nov.21,1950. 384 Z33

28663 BOND, W. R. Buying permanent timbers. Pacific Purchaser 33:19-20,57-60. Jan.1951. 280.8 P112

Wood preservation treatments.

28664 CARR, D. R. Treating farm timber with creosote; first a hot bath and then a cold one will give your fence posts long life in the ground. New Zeal. Dairy Exporter 26(5):50-51. Nov.1,1950. 44.8 N484

28665 FINDLAY, W. P. K. Dry rot in timber; causes and some chemical treatments. Chem. Age 64:171-172. Jan.27,1951. 382 C427

28666 GARLICK, G. G. The place of water-repellent preservatives in forest products. Forest Prod. Res. Soc. Proc. 4:241-247. 1950. 99.9 F7662P

Includes discussion.

28667 HOWELL, H. A. Durable fence posts. Ark. Farmer 103(2):18-19. Feb.1951. 6 Ar42

Preservation.

28668 KUNZE, R. Holzschutzmassnahmen zur verhütung von bauschäden. Österr. Forst- u. Holzwirt. 5: 169-171. June 7,1950. 99.81 Os7

28669 LEONARD, J. P. Selecting a wood preservative. Wood Working Digest 53:105-106,111-113. Jan. 1951. 99.82 W87

28670 LUNDBERGH, H. Longer life for Swedish wood. Amer. Forests 57(2):20-21. Feb.1951. 99.8 F762

28671 MANN, R. H. Atlantic City beach protected by creosoted timber groins. Wood Preserv. News 29:2-5,13. Jan.1951. 300.8 W853

28672 MANN, R. H. Wealthy Westchester County [New York] proves economy of treated timber. Wood Preserv. News 28:144-148,157-158. Dec.1950. 300.8 W853

28673 MÜHLHAN, W. Genossenschaftliche imprägnierung von hölzern in der landwirtschaft. III. Unser Wald 3(3):19. Mar.1950. 99.8 Un7

28674 PARTCH, R. E. Defect detection equipment. Forest Prod. Res. Soc. Proc. 4:180-184. 1950. 99.9 F7662P

28675 PRICE, C. W., JR. You can make your own fence posts. Prog. Farmer, Miss.-Ark.-La. Ed. 66(2): 122-123. Feb.1951. 6 So81

Includes preservation.

28676 RENNERFELT, E. Über den zusammenhang zwischen dem verblauen des holzes und den insekten. Oikos 2:120-137. Ref. 1950. 410 O14

28677 SANDERMANN, W. Die imprägnierung der fichte unter besonderer berücksichtigung der kyanisierung. (Sum.) Angew. Chem. (Ausg. A) 62:540. Nov.21, 1950. 384 Z33

28678 SCHULZ, G. Verblauung und bläueschäden bei kiefernholz. (Sum.) Angew. Chem. (Ausg. A) 62:540. Nov.21,1950. 384 Z33

Preservation.

28679 SPOON, W. Tests of various species of Netherlands Indies and Surinam woods against teredo attack in Holland, translated by E. Selman-Towt. Mar. 1950. 9 p. Translation 6394.

Translated from Koloniaal Instituut, Afdeeling Handelsmuseum, Amsterdam. Report 195:1-16. Apr.1943.

28680 U. S. DEPT. OF COMMERCE. Zinc naphthenate wood-preserved (spray, brush, dip application). U. S. Dept. Com. Standard 165-50,9 p. 1950. 157.88 C73



28681 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on wood preservation. U. S. Forest Serv. Forest Prod. Lab. Rpt. R704, 29 p. Nov.1950. 1.9 F761R

28682 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Making log cabins endure. U. S. Forest Serv. Forest Prod. Lab. Rpt. R982, rev., 14 p. Ref. Nov. 1950. 1.9 F761R

28683 WIELANDT, H. U. Überlegungen zur Imprägnierung der schindeldächer im Hochschwarzwald. Holz-Zentbl. 76:1575-1576. Nov.23,1950. 99.81 H742

28684 ZYCHA. Lagerschäden bei buche. (Sum.) Angew. Chem. (Ausg. A) 62:540. Nov.21,1950. 384 Z33 White rot.

### FOREST PRODUCTS

28685 BORTH, R. T. Quality control in relation to labor. Forest Prod. Res. Soc. Proc. 4:185-190. 1950. 99.9 F7662P

Includes discussion.

28686 BROWN, N. C. Forest utilization. In Society of American Foresters. Committee on History of Forestry. Fifty years of forestry in the U.S.A., p.92-112. Washington, 1950. 99.04 S01

28687 FOREST PRODUCTS RESEARCH SOCIETY. Proceedings of the national annual meeting, Multnomah Hotel, Portland, Oregon, Monday, Tuesday, Wednesday and Thursday, June 26, 27, 28 and 29, 1950, v.4. Madison, 1950. 506 p. 99.9 F7662P

28688 GILLESE, J. P. Alberta farms her forests. Family Herald & Wk. Star 82(4):5. Jan.25,1951. 7 F21 Value of forest products.

28689 KAPELEVICH, Z. V. Toward a rational utilization of birch wood. (In Russian.) Lesn. Promysh. 10 (8):31-32. Aug.1950. 99.82 L56

28690 THOMSON, A. G. Wider utilisation of British colonial timbers. New Commonwealth 21:176-177. (To be cont.) Dec.1950. 280.8 C88

Work of the Forest Products Research Laboratories at Princes Risborough.

28691 WASHINGTON UNIVERSITY. INSTITUTE OF FOREST PRODUCTS. Inventory of unused wood in District 6, 7, 9, 10, and 12. Wash. Inst. Forest Prod. B. 6, 15 p.; 7, 24 p.; 8, 31 p.; 9, 27 p. 1950. 99.9 W278

28692 WEGELT, W. Holz im wettbewerb mit anderen bau- und werkstoffen. Norddeut. Holzwirt. 4(50):4-5. Dec.14,1950. 99.82 N75

28693 ZYCHA, H. Lässt sich das verstocken des buchenholzes völlig verhindern? Holz-Zentbl. 76:1391. Oct.21,1950. 99.81 H742

### Lumber and Rough Products

28694 CRANSTON, A. E., JR. Method of utilizing and fabricating waste lumber. Forest Prod. Res. Soc. Proc. 4:77-82. 1950. 99.9 F7662P

Includes discussion.

28695 DRAKE, G. L. Utilization of low-grade hardwoods and softwoods in the Pacific Northwest. Forest Prod. Res. Soc. Proc. 4:129-133. 1950. 99.9 F7662P

Includes discussion.

28696 GUGEL, C. F. Holzschutz an eisenbahnfahrzeugen. Holz-Zentbl. 76:1473-1474, 1484-1485. Nov.4-7, 1950. 99.81 H742

28697 JARVIS, C. S. Logs to burn. My Gard. 42(205):31-35. Jan.1951. 80 M995

28698 JOHNSON, R. P. A. Grading problems that challenge the lumber industry. Forest Prod. Res. Soc. Proc. 4:24-28. 1950. 99.9 F7662P

Includes discussion.

28699 KRUG, G. Über holzfaulnis im bergbau und deren abhängigkeit von der grubenfeuchtigkeit. (Sum.) Angew. Chem. (Ausg. A) 62:540. Nov.21,1950. 384 Z33

28700 LIESE, J. Die buchenschwelle, ihre bedeutung für die jetzige zeit. Holz-Zentbl. 76:1264. Sept.26,1950. 99.81 H742

28701 LIPKA, W. Parkettdeckenherstellung. Norddeut. Holzwirt. 4(47):6. Nov.23,1950. 99.82 N75

28702 MANG, J. Hölzerne oder eiserne grubenschwellen? Holz-Zentbl. 76:1458. Nov.2,1950. 99.81 H742

28703 MILLER, E. C. Fuel. Noeast. Wood Util. Council. B. 33:121-126. Jan.1951. 99.9 N819

Includes discussion.

28704 SCHECHNER, H. Das kleine schnitttholzlager im winter ist eine kleine mehrarbeit von vorteil? Holz-Zentbl. 76:1561. Nov.21,1950. 99.81 H742

Protection from weather.

### Building Construction

28705 CHALK, L. The timbers used in the new building. Oxford U. Forest Soc. J. (ser.3)5:3-11. 1950. 99.9 Ox2

28706 LE RICOLAIS, R. Demountable timber-structures. Wood [London] 16:26-28. Jan.1951. 99.82 W855

28707 MASANI, N. J. Simple calculations in the design of forest bridges of stock spans of 15, 20, 30 and 40 feet. III. Indian Forester 76:428-445. Oct.1950. 99.8 In2

28708 RAIMOND, G. Maisons préfabriquées pour l'Australie. Rev. du Bois 5(spec.no.):30-31. Dec.1950. 99.82 R32

28709 SALLENAVE, P. Une solution au problème de l'habitation en bois pour les pays tropicaux. Bois et Forêts des Trop. 1950:267-286. Third Q.1950. 99.8 B632

English summary.

28710 SCHOFIELD, W. F. Wood as a structural material. Wood Preserv. News 29:9-13. Jan.1951. 300.8 W853

28711 SHEARD, G. F. Empire hardwoods in glass-house construction. Gt. Brit. Min. Agr. Agriculture 57:387-391. 1950. 10 G79J

Wood properties.

### Veneers, Plywood and Adhesives

28712 BAILEY, N. Veneer and plywood. IV-V. Wood Working Digest 52(11):121-123;(12):121-122. Nov.-Dec. 1950. 99.82 W87

28713 BENE, J. Douglas fir substitutes for the British Columbia plywood industry. Forest Prod. Res. Soc. Proc. 4:328-331. 1950. 99.9 F7662P

28714 BETHEL, J. S., and CARTER, R. M. Techniques in hardwood plywood quality control. Forest Prod. Res. Soc. Proc. 4:162-169. 1950. 99.9 F7662P

Includes discussion.

Also in Wood Working Digest 52(11):125-128, 130, 132, 134, 136, 138, 140, 142, 144. Nov.1950. 99.82 W87

28715 BETHEL, J. S. Waterproof plywood. South. Lumberman 182(2276):68,70. Feb.1,1951. 99.81 So82

28716 CONNELLY, H. H. Veneer cutting affects finishing. Veneers & Plywood 45(2):40-41. Feb.1951. 99.82 V55

28717 DEVLIN, C. E. The softwood plywood market—present and future. Forest Prod. Res. Soc. Proc. 4:365-371. 1950. 99.9 F7662P

28718 DICKINSON, T. Elastomeric plywood. Wood Working Digest 52(12):131-132, 134-136. Dec.1950. 99.82 W87

28719 ENGLERTH, G. H. Decay resistance of plywood bonded with various glues. Forest Prod. Res. Soc. Proc. 4:248-253. 1950. 99.9 F7662P

28720 GALBER, H. The story of glue. I-II. Veneers & Plywood 45(1):22;(2):18,20. Jan.-Feb.1951. 99.82 V55

28721 GRAHAM, P. H. College training grows for men in veneers, plywood. Veneers & Plywood 45(2):26-28. Feb.1951. 99.82 V55

28722 HOGAN, J. T., and ARTHUR, J. C., JR. Preparation and utilization of cottonseed meal glue for plywood. Amer. Oil Chem. Soc. J. 28:20-23. Ref. Jan. 1951. 307.8 J82

28723 HYLER, J. E. Hot pressed plywood. 2. South. Lumberman 182(2276):63-64,66. Feb.1,1951. 99.81 So82

28724 HYLER, J. E. Newest trimming methods step up panel production. Veneers & Plywood 45(2):32,34-36. Feb.1951. 99.82 V55

28725 HYLER, J. E. Panel size important cost computation factor. Veneers & Plywood 45:34-36. Jan.1951. 99.82 V55

Plywood.

28726 LACEY, P. M. C., and HOWE, H. A. Low voltage heating for glue-setting over large areas. Wood [London] 16:10-14. Jan.1951. 99.82 W855

28727 LOSEV, I. P., and IZUMRUDOVA, T. V. New plywood plastics. (In Russian.) Lesn. Promysh. 10(8):27-29. Aug.1950. 99.82 L56



28729 MUIZON, DE. L'industrie des contreplaqués en face des problèmes du commerce extérieur. Rev. du Bois 5(spec.no.):26-27. Dec.1950. 99.82 R32 France.

28729 PERKINS, N. S. Predicting exterior plywood performances. Forest Prod. Res. Soc. Proc. 4:352-364. 1950. 99.9 F7662P Includes discussion.

28730 PERRY, T. D. Gluing technique for wood. 1. Survey of principles involved. Wood Working Digest 53: 39-42,44-47. Jan.1951. 99.82 W87

28731 PETERSON, R. B. Core panels without waste. Lumberman 78:68,70,73. Jan.1951. 99.81 W52

28732 PLESSIS, P. L'industrie française des placages et les marchés extérieurs. Rev. du Bois 5(spec.no.):24-25. Dec.1950. 99.82 R32

28733 PRESTON, S. B. The effect of fundamental glue-line properties on the strength of thin veneer laminates. Forest Prod. Res. Soc. Proc. 4:228-240. Ref. 1950. 99.9 F7662P

28734 REDFERN, D. V. Gluing operations—industry trends. Forest Prod. Res. Soc. Proc. 4:339-346. 1950. 99.9 F7662P

28735 REINMUTH, P. The manufacturing of pine veneer. Forest Prod. Res. Soc. Proc. 4:332-338. 1950. 99.9 F7662P

28736 RITCHIE, J. D. Future of plastic surfaced Douglas fir plywood. Forest Prod. Res. Soc. Proc. 4:347-351. 1950. 99.9 F7662P

28737 SAKS, E. V. Good peeler bolts are basis for fine veneer. Veneers & Plywood 45:10-12. Jan.1951. 99.82 V55

28738 TANIMURA, T., NAGATA, J., and OKAMOTO, K. Research about cracks of plywood and penetrate conditions of glue substances. Utsunomiya U. Col. Agr. B. 1: 65-79. Feb.1950. 107.6 U7B

28739 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Veneer cutting and drying properties; cottonwood. U. S. Forest Serv. Forest Prod. Lab. Rpt. D1766-3,4 p. Dec.1950. 1.9 F761R

28740 VOSS, A. W., NORRIS, C. B., and PALMA, J., JR. Supplement to buckling of flat plywood plates in compression, shear, or combined compression and shear; buckling of flat plywood plates in uniform shear with face grain at angles of 0°, 45°, and 90°. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1316-H, rev., 16 p. July 1950. 1.9 F761R

28741 WINLUND, E. S. How to boost RF gluing production, edge-gluing and end-gluing. Forest Prod. Res. Soc. Proc. 4:203-221. Ref. 1950. 99.9 F7662P Includes discussion.

#### Furniture

28742 BEDE, J. A. Furniture finishing; problems conquered to make hot spraying of lacquer a success. Wood Prod. 56:24-26,28,32. Jan.1951. 99.82 W856

28743 BOOTH, F. L. Veneered cedar chests can be distinctive and dependable. Veneers & Plywood 45:40-41. Jan.1951. 99.82 V55

28744 CHAPMAN, G. V., and JOHNSON, E. S. Quality control in furniture production. Forest Prod. Res. Soc. Proc. 4:170-179. Ref. 1950. 99.9 F7662P

28745 PARRISH, F. T. Furniture design and lumber utilization. Wood Working Digest 53:51-54,56,58,60-64. Jan.1951. 99.82 W87

28746 PROPER selection and use of ash as a furniture hardwood. Furniture Mfr. 72(2):20,22,36-37,50-51, 55,58. Feb.1951. 300.8 F982

#### Containers

28747 BUTTERWORTH, W. Recent developments in containers. Forest Prod. Res. Soc. Proc. 4:91-100. 1950. 99.9 F7662P

Also in Wood Working Digest 52(12):65-68,70,72,74-81. Dec.1950. 99.82 W87

28748 GREEN, A. L. Loss and damage in transit in relation to shipping containers—viewpoint of the carrier. Forest Prod. Res. Soc. Proc. 4:101-106. 1950. 99.9 F7662P

Includes discussion.

28749 KEEFE, W. B. Loss and damage in transit in relation to shipping containers (what can be done by the manufacturer to reduce this loss). Forest Prod. Res. Soc. Proc. 4:116-119. 1950. 99.9 F7662P

28750 KRYNEN. L'emballage problème-clé de l'exportation. Rev. du Bois 5(spec.no.):32-33. Dec.1950. 99.82 R32

28751 LADD, J. M. Loss and damage in transit in relation to shipping containers (viewpoint of the container manufacturer). Forest Prod. Res. Soc. Proc. 4:107-115. 1950. 99.9 F7662P

28752 WAGNER, J. B. Stave and barrel inspection. Barrel & Box & Packages 56:8-9. Jan.1951. 99.82 B27

#### Pulp and Paper

28753 BARKER, E. R., JR. Sulfite acid preparation. In Maine. University. Lectures on pulp and paper manufacture, p.50-54. New York, Lockwood, 1951. 302 M28

28754 BARREDA, J. A. Acerca del aprovechamiento del cetico en la industria nacional de papel. Mensajero Agr. 49:45-46. May 1950. 9.8 M52 Cecropia sp.

28755 BECKLER, W., JR. Kraft pulping. In Maine. University. Lectures on pulp and paper manufacture, p.73-79. New York, Lockwood, 1951. 302 M28

28756 BHARGAVA, M. P., KASBEKAR, G. S., and BHARGAVA, R. P. Utilisation of bagasse for wrapping and bag-paper manufacture. Indian Forest B. New Ser. Cellulose & Paper 148(1949), 18 p. 1950. 99.9 In22B

28757 BROMLEY, W. S. Improved methods of handling pulpwood. Forest Prod. Res. Soc. Proc. 4:142-147. 1950. 99.9 F7662P

Includes discussion.

Also in Paper Mill News 74(3):38,40,42,46. Jan.20,1951. 302.8 P195

28758 CAMPREDON, J. Le peuplier en papeterie. Bois 67(22):1-2. Dec.10/15,1950. 99.82 B632

28759 CARLIN, T. J. Kraft pulping. In Maine. University. Lectures on pulp and paper manufacture, p.80-84. New York, Lockwood, 1951. 302 M28

28760 CAULFIELD, J. G. L. Sulfite pulping, general. In Maine. University. Lectures on pulp and paper manufacture, p.42-45. New York, Lockwood, 1951. 302 M28

28761 DEMERITT, D. B. A brief summary of pulpwood production in the Northeast. In Maine. University. Lectures on pulp and paper manufacture, p.26-27. New York, Lockwood, 1951. 302 M28

28762 EKSTAM, T. Comparison of beating in the laboratory with beater with variations in the beating pressure and pulp consistency, translated by E. Selman-Towt. Feb.1950. 7 p. Translation 6386.

Translated from Pappers och Trävarutidskrift för Finland 26:227-228,231-235. Sept.30,1944.

28763 FOWLER, R. M. A review of the pulp and paper industry in 1950. Pulp & Paper Mag. Canada 52: 62-65. Jan.1951. 302.8 P96

28764 HART, J. S. Pulpwood. Noeast. Wood Util. Council. B. 33:101-105. Ref. Jan.1951. 99.9 N819 Includes discussion.

28765 HELVERSEN, F. D. Outstanding material handling practices in the pulp and paper industry on the West Coast. Paper Mill News 74(3):22,24,26,28,30,32,34, 36. Jan.20,1951. 302.8 P195

28766 HEUSER, E., and JÖRGENSEN, L. Chain length and chain-length distribution of wood cellulose as compared with cotton. Tappi 34(2):57-67. Feb.1951. 302.8 T162

28767 HOLZER, W. F. Relation between wood and pulp properties. Forest Prod. Res. Soc. Proc. 4:134-137. 1950. 99.9 F7662P

28768 HUME, R. M. Mechanical pulping. In Maine. University. Lectures on pulp and paper manufacture, p.39-41. New York, Lockwood, 1951. 302 M28

28769 JAYME, G., and KÖPPEN, A. VON. Strukturelle und chemische Unterschiede zwischen sulfitt- und sulfatzellstoffen. Papier 4:373-378. (To be cont.) Oct. 31,1950. 302.8 P1934

28770 KEATON, H. L., and GILLESPIE, W. F. Effect of storage of southern pine on pulp yield and quality. Tappi 34:21-24. Jan.1951. 302.8 T162

28771 KEITH, E. W. The soda process. In Maine. University. Lectures on pulp and paper manufacture, p.85-89. New York, Lockwood, 1951. 302 M28

28772 MCGOVERN, J. N., and MACKIN, G. E. Farm woodlot aspen for creped tissue paper. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1783, 6 p. Nov.1950. 1.9 F761R

28773 MAINE. UNIVERSITY. Lectures on pulp and paper manufacture, edited by L. C. Jenness and T. Lewis. New York, Lockwood, 1951. 199 p. 302 M28

28774 METHERELL, E. C. Wood measurement in the [paper] mill. Thunder Bay Timber Oper. Assoc. Log Book 2(4):6-7. Nov.1950. 99.8 T42



28775 NIVISON, R., JR. The manufacture of mechanical pulp. In Maine. University. Lectures on pulp and paper manufacture, p.33-38. New York, Lockwood, 1951. 302 M28

28776 PARSONS, J. L. Chlorine bleaching of chemical pulp. In Maine. University. Lectures on pulp and paper manufacture, p.115-119. New York, Lockwood, 1951. 302 M28

28777 PERRY, H. J. Neutral sulfite semichemical pulping process. In Maine. University. Lectures on pulp and paper manufacture, p.63-66. New York, Lockwood, 1951. 302 M28

28778 PHILLIPS, N. R. Preparation of chlorine bleach liquors for paper pulp. In Maine. University. Lectures on pulp and paper manufacture, p.112-114. New York, Lockwood, 1951. 302 M28

28779 PIERCE, L. A. Peroxide bleaching. In Maine. University. Lectures on pulp and paper manufacture, p.107-111. New York, Lockwood, 1951. 302 M28

28780 REDDEN, C. A. The wood room. In Maine. University. Lectures on pulp and paper manufacture, p.28-32. New York, Lockwood, 1951. 302 M28

28781 SCHULENBURG, A. F., GRAF V. D. Provenienzenfragen bei Zellstoffhölzern. Allg. Forstz. 6:14-16. Jan.10, 1951. 99.8 AL52

28782 SILVERSIDES, C. R. Pulpwood operations. Noeast. Wood Util. Council. B. 33:59-63. Jan. 1951. 99.9 N819

28783 SNYDER, J. H. Sulfite acid making. In Maine. University. Lectures on pulp and paper manufacture, p.55-57. New York, Lockwood, 1951. 302 M28

28784 STEVENSON, L. T. Economic aspects of papermaking fibrous raw materials. Forest Prod. Res. Soc. Proc. 4:121-128. 1950. 99.9 F7662P  
Includes discussion.

28785 STOECKELER, J. H. Pulpwood preparation in Scandinavia. Paper Indus. 32:971. Dec. 1950. 302.8 P1923

28786 STONE, W. A., and MATARESE, J. G. Bleaching kraft pulp with mixtures of sodium chlorite and chlorine. Pulp & Paper Mag. Canada 52:85-88, 156. Jan. 1951. 302.8 P96

28787 SUPERINTENDENTS' symposium: use of Douglas fir. Pulp & Paper 25(2):66, 68. Feb. 1951. 302.8 P11

28788 TAPPI library. Tappi 34(2):26A, 28A, 30A, 32A. Feb. 1951. 302.8 T162  
List of fibers for paper.

28789 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on pulp and paper. U. S. Forest Serv. Forest Prod. Lab. Rpt. R444, 40 p. Nov. 1950. 1.9 F761R

28790 WERNER, T. H. Caustic pulping—the soda process. In Maine. University. Lectures on pulp and paper manufacture, p.67-72. New York, Lockwood, 1951. 302 M28

28791 WEST, C. J. Pulping processes. II-III. Inst. Paper Chem. Bibliog. Ser. 173, 74 p; 174, 97 p. Jan. 1950. 241.4 Ap5

28792 WISE, L. E., RITTENHOUSE, R. C., and GARCIA, C. Presence of galactose units in unbleached Kraft pulps. Tappi 34:15. Ref. Jan. 1951. 302.8 T162

#### Chemical Products and Distillates

28793 CHAMBARD, P., and ABADIE, F. Etude sur le tannin de l'écorce d'Eucalyptus sideroxydon. 2. B. de l'Assoc. Franç. des Chim. des Indus. du Cuir et Doc. Sci. et Tech. des Indus. du Cuir 12:193-210. Nov./Dec. 1950. 303.8 B87

28794 CHARCOAL burning. Wood [London] 16:36-37. Jan. 1951. 99.82 W855

28795 DOUTT, F. V. The use of trees for forest products. Chemical utilization. Forest Farmer 10(3):6, 11. Dec. 1950. 99.8 F7692

28796 HILBERT, F. L. Spruce tanning extracts. Leather & Shoes 121(5):10-11, 36. Feb. 3, 1951. 308.8 H53

28797 HILBERT, F. L. Vegetable tanning extracts from waste sulphite liquors. Leather & Shoes 121(3):12, 35-36. Jan. 20, 1951. 303.8 H53

28798 LEONARD, J. Etude botanique des copaliers au Congo Belge. Cour. Agr. 15(21):1, 3. Oct. 11, 1950. 24 C83

28799 SAGOSCHEN, J. A. Buchensulfitaublaue als Rohstoff für Gerbextrakte. (Sum.) Angew. Chem. (Ausg. A) 62:539. Nov. 21, 1950. 384 Z33

28900 SHAW, A. C. Production of essential oils from coniferous foliage. Canad. Chem. & Process Indus. 35: 44-45. Jan. 1951. 381 C16

28901 SUCHET-D'ALBUFERA, L. Les matières tannantes végétales. Bois et Forêts des Trop. 1950:235-246. Third Q. 1950. 99.8 B632  
English summary.

28902 VELDSMAN, D. P. On venenatin, the cardiac glycoside from the bark and wood of *Acokanthera venenata* G. Don. VI. So. African Indus. Chem. 4:204-207. Nov. 1950. 385 S08

#### Naval Stores

28903 LINARES SANCHEZ, A. La industria resinera cerca de veinte millones de pinos en resinación y 83 fábricas de destilación. Rev. Sind. de Estadfs. 5(19):18-21. July/Sept. 1950. 263 Es8B

28904 MCCONNELL, N. C. Better grades of rosin by proper handling of chips. Nav. Stores Rev. 60(44):11. Jan. 27, 1951. 99.81 N22

28905 SHINGLER, G. P. Training chemists in the South for naval stores research. Nav. Stores Rev. 60(44): 14, 24. Jan. 27, 1951. 99.81 N22

28906 SNOW, A. G., JR. Should trees be treated during winter months? AT-FA Journal 13(3):12. Dec. 1950. 309.8 Am3

For extraction of resin.

#### Other Forest Products

28907 ANDERSON, A. B., and RUNCKEL, W. J. Utilization of Douglas fir bark in hardboard. Forest Prod. Res. Soc. Proc. 4:301-309. 1950. 99.9 F7662P  
Includes discussion.

28908 ARIES, R. S. Wallboard. Noeast. Wood Util. Council. B. 33:120. Jan. 1951. 99.9 N819

28909 BELSEY, S. The Christmas tree industry in Canada. Ottawa, Dept. Resources and Developmt., Forestry Br., Econ. Sect., 1950. 6 p. 99.77 B41

28910 CAMPREDON, J. La fabrication des panneaux à base de déchets de bois. Bois 68:1, 3. Jan. 10/15, 1951. 99.82 B632

28911 CARPENTER, R. D. Wood waste study. Wood [Chicago] 6(2):20, 38-39. Feb. 1951. 99.82 W859

28912 CARR, L. J. Factors influencing the marketing of wood particle board. Forest Prod. Res. Soc. Proc. 4:298-300. 1950. 99.9 F7662P  
Includes discussion.

28913 CENTOLA, G., and PANCIROLI, F. Recherches sur la préparation de panneaux de fibres. (Sum.) Cong. Internat. des Indus. Agr. Rap. 8(1):571. 1950. 388 C765

28914 EIPPER, D. W. Fibreboards—their manufacture and uses. Pulp & Paper Mag. Canada 52:80-84. Jan. 1951. 302.8 P96

Includes discussion by J. Risi.

28915 EVANS, H. R. Hardboards from wood semi-dry process. Forest Prod. Res. Soc. Proc. 4:268-270. 1950. 99.9 F7662P

28916 FARBER, E. Hardboard from hardwood. Forest Prod. Res. Soc. Proc. 4:271-278. 1950. 99.9 F7662P

Includes discussion.

28917 GOTTSTEIN, J. W. Some studies of sawdust-synthetic resin combinations for hardboard manufacture. Forest Prod. Res. Soc. Proc. 4:310-321. 1950. 99.9 F7662P

28918 GRASER, T. Holzhaute und holzhautplatten; furnieren und polieren in einem arbeitgang. Holz-Zentbl. 76:1455. Nov. 2, 1950. 99.81 H742

28919 GUERNSEY, F. W. Wood waste in the Douglas fir region. Forest Prod. Res. Soc. Proc. 4:222-227. Ref. 1950. 99.9 F7662P

Includes discussion.

28920 JAESCHKE, A. Die lagerung von leichtbauplatten. Holz 4:247-249. Dec. 1950. 99.82 H743

28921 JAESCHKE, A. Die maschinelle einrichtung zur herstellung von leichtbauplatten. Holz 4:221-225. Nov. 1950. 99.82 H743

28922 KING, F. W., and BENDER, F. Production of insulating fibreboard from western red cedar shingle mill waste. Pulp & Paper Mag. Canada 52:75-79. Jan. 1951. 302.8 P96

Also in Brit. Columbia Lumberman 35:36-37, 86, 88, 90, 92. Jan. 1951. 99.81 B77



- 28823 KMONITZEK. Das faserholz und sein preis. Holz-Zentbl. 76:1551. Nov.18,1950. 99.81 H742
- 28824 KRAEMER, J. H. Hardi-floor, a vertical wood block flooring. Ind. Agr. Expt. Sta. C. 363,15 p. June 1950. 100 In2P
- 28825 LANNAN, P. T., JR. The use of trees for forest products. Industrial research. Forest Farmer 10(3):6,12-13. Dec.1950. 99.8 F7692
- 28826 LIESE, J. Erfahrungen mit holzplasterstras-sen. (Sum.) Angew. Chem. (Ausg. A) 62:540. Nov.21, 1950. 384 Z33
- 28827 LOCKARD, C. R., and HRUBESKY, C. E. The saturating felt industry in the Northeast as a market for wood chips. Noeast. Wood Util. Council. B. 33:107-116. Jan.1951. 99.9 N819
- 28828 MACDONALD, M. D. Manufacture of consoli-dated products from wood residues. Forest Prod. Res. Soc. Proc. 4:289-297. 1950. 99.9 F7662P  
Includes discussion.
- 28829 MCKUSICK, H. A. Land clearing. Noeast. Wood Util. Council. B. 33:49-54. Jan.1951. 99.9 N819  
Wood chips.
- 28830 MARTINS, C. M. A. The consumption of natural cork stoppers. (In Portuguese.) Portugal. Junta Jac. da Cortiça. B. 12:319-320. (Concl.) Sept.1950. 309.9 J96  
English summary, p. LVII.
- 28831 MILLER, I. M. Power lines. Noeast. Wood Util. Council. B. 33:55-58. Jan.1951. 99.9 N819  
Includes discussion.  
Wood chips.
- 28832 MORELLI, A. The problem of fuel require-ments on the farm of the Venetian reclamation project. (In Italian.) Agr. delle Venezie 4:354-358. Oct./Dec. 1950. 16 Ag826  
Poplar culture for fuel.
- 28833 NORTHEASTERN WOOD UTILIZATION COUNCIL. Chipped wood production and uses. Noeast. Wood Util. Council. B. 33,135 p. Jan.1951. 99.9 N819
- 28834 OTHMER, D. F., and RICCIARDI, L. G. La fabrication de bois reconstitué pour cloisons à partir de déchets ligneux, sans résines, par un procédé à sec. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):570-571. 1950. 388 C765
- 28835 PERES, E. The problem of consignments in the cork commerce and its reaction on export prices to the British market. (In Portuguese.) Portugal. Junta Nac. da Cortiça. B. 13(145):9-10. Nov.1950. 309.9 J96  
English summary, p. II.
- 28836 RAGUÉ MIR, J. Incremento de la riqueza corchera. Cult. Mod. 33:403-404. Nov.1950. 15 C89  
The industry in Spain.
- 28837 RATLIFF, F. T. Wood chips for use in roof-ing felt manufacture. Noeast. Wood Util. Council. B. 33: 117-119. Jan.1951. 99.9 N819  
Includes discussion.
- 28838 RISI, J. New European boards from wood waste. Timber Canada 11(6):45-47,99-100. Feb.1951. 99.81 T487
- 28839 SCHWARTZ, S. L. Insulating board from Douglas fir and alder. Paper Indus. 32:974-976. Dec. 1950. 302.8 P1923
- 28840 STOWASSER, S. Fichtenrindengewinnung. Österr. Forst- u. Holzwirt. 5:204-205. July 7,1950. 99.81 Os7
- 28841 SVOBODA, P. The sounding-wood of spruce. (In Czech.) Lesn. Práce 29:188-214. Ref. Sept.1950. 99.8 L56  
English summary.
- WOOD TECHNOLOGY**
- 28842 CLARK, I. T., HICKS, J. R., and HARRIS, E. E. Hydrogenation of Douglas-fir lignin. Tappi 34:6-11. Ref. Jan.1951. 302.8 T162
- 28843 DE BAUN, R. M., and NORD, F. F. A quantita-tive phloroglucinol-HCL test in the evaluation of lignin preparations. Tappi 34(2):71-73. Ref. Feb.1951. 302.8 T162
- 28844 DOUGLASS, I. B. The chemistry of cellulose and wood. In Maine. University. Lectures on pulp and paper manufacture, p.20-25. Ref. New York, Lockwood, 1951. 302 M28
- 28845 FROST, T. R., and KURTH, E. F. Levulinic acid from wood cellulose. Tappi 34(2):80-86. Ref. Feb.1951. 302.8 T162
- 28846 ISTAS, J. R. Notes sur les methodes d'analy-ses chimiques des bols tropicaux. (Sum.) Cong. Inter-natl. des Indus. Agr. Rap. 8(1):565-566. 1950. 388 C765
- 28847 KITAZAWA, G. Nondestructive testing for forest products. Forest Prod. Res. Soc. Proc. 4:191-197. 1950. 99.9 F7662P
- 28848 KRATZL, K. Über das "wasserlösliche holz": ein beitrage zur frage der aromatischen struktur des lignins. Österr. Gesell. f. Holzforsch. Mitt. 2:135-137. Ref. Dec.1950. 99.9 Os72
- 28849 KUDZIN, S. F., and NORD, F. F. Investiga-tions on lignin and lignification. IV. Studies on hardwood lignin. Amer. Chem. Soc. J. 73:690-693. Feb.1951. 381 Am33J
- 28850 OTHMER, D. F., and ARIES, R. S. Les ligin-es en agronomie. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):490. 1950. 388 C765
- 28851 POLLAK, A., ARIES, R. S., and OTHMER, D. F. La production de lignine en quantités industrielles aux Etats-Unis. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):571. 1950. 388 C765
- 28852 SCHWARTZ, S. L., and BAIRD, P. K. Effect of molding temperature on the strength and dimensional stability of hardboards from fiberized water-soaked Douglas-fir chips. Forest Prod. Res. Soc. Proc. 4:322-326. Ref. 1950. 99.9 G7662P
- 28853 SOHN, A. W. UV-absorptionsspektren von ligin und ligninartigen substanzen. Papier 4:379-384. Oct.31,1950. 302.8 P1934
- 28854 STAMM, A. J., and SEBORG, R. M. Forest Products Laboratory resin-treated wood (impreg). U. S. Forest Serv. Forest Prod. Lab. Rpt. 1380,rev.,8 p. Nov. 1950. 1.9 F761R
- 28855 STUMPF, W., and FREUDENBERG, K. Lös-liches lignin aus fichten- und buchenholz. (Sum.) Angew. Chem. (Ausg. A) 62:537. Nov.21,1950. 384 Z33
- 28856 TARKOW, H., STAMM, A. J., and ERICKSON, E. C. O. Acetylated wood. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1593,rev.,15 p. Ref. Aug.1950. 1.9 F761R
- 28857 TURNER, H. D., and KERN, J. D. Relation of several formation variables to properties of phenolic-resin-bonded wood-waste hardboards. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1786,6 p. Nov.1950. 1.9 F761R
- 28858 VORREITER, L. Wasseraufnahme und -ab-gabe von holzwolleplatten. Österr. Gesell. f. Holzforsch. Mitt. 2:138-140. Dec.1950. 99.9 Os72
- Properties and Structure**
- 28859 AKINS, V., and PILLOW, M. Y. Occurrence of gelatinous fibers and their effect upon properties of hard-wood species. Forest Prod Res. Soc. Proc. 4:254-264. Ref. 1950. 99.9 F7662P
- 28860 BOLLER, K. H. Effect of moisture absorption on flexural properties of a glass-fabric-polyester lami-nate. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1819, 4 p. Oct.1950. 1.9 F761R
- 28861 DESCH, H. E. The preparation of microscopic slides. Wood [London] 15:459-461. Dec.1950. 99.82 W855  
Wood anatomy.
- 28862 EGNER, K. Die wärmeeigenschaften der holzfussböden im vergleich mit anderen fussbodenbelägen Holz-Zentbl. 76:1521-1522. Nov.14,1950. 99.81 H742
- 28863 HOLCOMBE, R. A. The microscopy of plate-cut railroad cross-ties. J. Forestry 49:28-31. Jan.1951. 99.8 F768
- 28864 HYLAND, F. The structure of wood. In Maine. University. Lectures on pulp and paper manufacture, p.11-19. New York, Lockwood, 1951. 302 M28
- 28865 KÖNIG, E. Das gefüge des holzes. Norddeut. Holzwirt. 4(41):3-4. Oct.12,1950. 99.82 N75
- 28866 LAMB, G. N. Foreign woods; origin, use, properties and nomenclature. Wood Prod. 56:20,22. Jan.1951. 99.82 W856
- 28867 LIPKA, W. Die lage der jahresringe bei mittellagen von tischlerplatten; (eine kritische unter-suchung über den einfluss derselben auf das stehver-mögen der tischlerplatten). Holz 4:219-221. Nov.1950. 99.82 H743
- 28868 MIYAKE, Y. The natural luster of the oak wood with special reference to its ray flecks. (In Japa-nese.) Tokyo. U. Agr. & Textile Indus. Facul. Agr. B. 1: 1-10. July 1950. 107.6 T578  
English summary.



## 28869 NATIONAL LUMBER MANUFACTURES

ASSOCIATION. National design specification for stress-grade lumber and its fastenings. Washington, 1950. 65 p. 99.76 N215Na

28870 REINDERS-GOUWENTAK, C. A. Ray terminology in wood anatomy. Nederland. Akad. van Wetensch. Proc. 53:1265-1275. Ref. Oct. 1950. 503 Am8P

28871 STERN, E. G. Comparative withdrawal tests establish nail clinching effects. Wooden Box & Crate 12 (3):19-20, 22, 24. 1950. 99.82 W857

28872 SUZUKI, K., NAGATA, J., and OKAMOTO, K. Research on ray and tracheid of wood of "Sawara" *Chamaecyparis pisifera*. Utsunomiya U. Col. Agr. B. 1: 43-63. Feb. 1950. 107.6 U7B

28873 WERREN, F., and FREAS, A. D. Strength of scarf and lap joints in glass-fabric-base plastic laminates. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1818, 6 p. Oct. 1950. 1.9 F761R

## ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

## BREEDS AND BREEDING

28874 BERTL, H. Die tierzucht auf der Wiener Herbstmesse 1950. Landwirtschaft 1950:295-297. Oct. 1950. 19 L235

28875 BONSMAN, F. N. South Africa as stud farm of continent; factors to bear in mind when breeding types suitable for local environment. Farmer's Wk. [Bloemfontein] 80:49, 51. Dec. 6, 1950. 24 F225

28876 BRIQUET JÚNIOR, R. Development of the idea of consanguinity in animals. (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arg. 2:109-122. Ref. 1949. 41.9 M662

28877 CHIEFFI, A. How to select breeding stock. (In Portuguese.) Seleç. Agr. 5(56):47-48. Dec. 1950. 9.2 Se4  
Livestock.

28878 CLARK, R. Sold to the gentleman up there on the top row. Livestock Wk. 5(8):14, 24. Dec. 28, 1950. 49 L753

Chiefly on breeding of pure livestock.

28879 EDWARDS, J. La inseminación artificial en la ganadería británica. Res 18:25515. Dec. 5, 1950. 286.85 R31

28880 FREIRE, M. J. Serviços de reprodução e inseminação artificial. Relatório da missão de estudo a Inglaterra e Dinamarca [Breeding and artificial insemination services. Report on a study mission to England and Denmark]. Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário 17(3), 36 p. 1949. 41.8 P83

28881 GUTTMANN, E. S. How to select and use a microscope for sperm tests. Amer. Fur Breeder 24(2): 10-11, 40. Feb. 1951. 410 Am33

28882 HAMMOND, J. Livestock improvement. Plymouth, 1950. 76 p. 40 H18L

28883 HARTSOUGH, G. R. The technique of examining sperm. Amer. Fur Breeder 24(2):13, 40-42. Feb. 1951. 410 Am33

28884 LUSH, J. L. The application of genetics in the improvement of animals. II. The interest in artificial insemination. (In Portuguese.) Rev. dos Criadores 21(10): 30-32. Oct. 1950. 43.8 R32

28885 MEHNER, A. Kombination von inzuchtlinien bei haustieren. Z. f. Tierzücht. u. Züchtbiol. 58:422-427. July 1950. 442.8 Z35

28886 MILOVANOV, V. K. Biology of the propagation of agricultural animals. (In Russian.) Sořsialist. Zhi-votnovod. 12(8):43-48. Aug. 1950. 49 So71  
Artificial insemination.

28887 POZZI, F. Why we prefer artificial insemination today. (In Italian.) Agr. in Prov. di Varese 23:3. Jan. 1, 1951. 16 Ag8265

28888 RICE, V. A., and ANDREWS, F. N. Breeding and improvement of farm animals, with chapter on Selection in meat animals by E. J. Warwick. Ed. 4. New York, McGraw-Hill, 1951. 787 p. Ref. 40 R36

28889 SCHMIDT, H. Die vater-tierhaltung im rahmen der tierzuchtförderung. Landwirtschaft 1950:298-299. Oct. 1950. 19 L235

28890 SCHULTE SIENBECK. Tierzucht und veredlungswirtschaft. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1767-1769. Dec. 21, 1950. 18 L2346

28891 VAN RENSBURG, S. W. J. Artificial insemination is no part-time hobby; useful in disease prevention but many pitfalls if administered without proper equipment. Farmer's Wk. [Bloemfontein] 80:10-11, 13, 15. Jan. 24, 1951. 24 F225  
In South Africa.

28892 WILDE, O. Die auslese reinerbiger tiere mit dominantem erscheinungsbild. Z. f. Tierzücht. u. Züchtbiol. 58:455-464. July 1950. 442.8 Z35

28893 WINKLER, G. Die bedeutung des kör-gesetzes für die landestierzucht. Kärntner Bauer 100:438-439. Dec. 1, 1950. 19 K14

## FEEDS AND FEEDING

28894 ALEKSANDROV, N. P., and KUZ'MINA, S. S. Experiment in organizing and utilizing the feed supply base. (In Russian.) Sovet. Zootekh. 5(9):58-67. Sept. 1950. 49 So822

Green feed production and grazing chiefly.

28895 ARENAS, E. Conceptos sobre alimentaci6n. Campesino [Santiago] 82(12):39, 41-42. Dec. 1950. 9.3 Sol2  
Livestock.

28896 BARNETT, A. J. G., and MILLER, T. B. Studies on the soluble nitrogen content of dried samples of grass silage. J. Agr. Sci. [London] 40:50-54. Ref. Jan./Apr. 1950. 10 J822

28897 BECKWITH, G. H. We put the accent on sea in research. Amer. Feed & Grain Dealer 34(12):14-15, 48-49. Jan. 1951. 298.8 C83

Fish products and seaweed in feeds.

28898 BETHKE, R. M. Minerals in best feed. Hatchery & Feed 25:77-78. Jan. 1951. 47.8 H28

28899 BOHSTEDT, G. Antibiotics and vitamin B12 in livestock feeding. Feedstuffs 23(2):48-52. Jan. 13, 1951. 286.81 F322

Similar title in Feed Bag 27:15, 90-91. Jan. 1951. 389.78 F32

28900 BRÜNNER. Wiesenheu ist nicht nur futter, sondern auch gesundheitsquelle. Württemb. Wchnbl. f. Landwirt. 117:1176. Dec. 30, 1950. 18 W96  
Nutritive value and analysis.

28901 BUDDE. Anstehende futterplanung. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1481-1482. Oct. 26, 1950. 18 L2346

28902 CABRAS, F. Chestnuts in livestock feeding. (In Italian.) Agr. Tosc. 5:457-458. Dec. 1950. 16 Ag827

28903 CAVE, R. A., and BARTLE, E. Alfalfa silage. S. Dak. State Col. Agr. Ext. L. 130, 6 p.-folder. June 1950. 275.29 So85E

28904 CHARNOT, A., and FLAMENT, R. Peut-on supprimer le darmous? Terre Marocaine 24:494-496. Dec. 1950. 24 T44

Fluorine poisoning of livestock in phosphate regions.

28905 DALMATOV, V. A. Removal of gossypol from cottonseed cake. (In Russian.) Sovet. Zootekh. 5(10):89. Oct. 1950. 49 So822

For safe feeding to livestock.

28906 DALMEIREN, S. La valeur alimentaire de la melasse de betteraves. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):558. 1950. 388 C765

28907 DED, J. The savour and nourishment value of the birdsfoot trefoil (*Lotus corniculatus* L.) fodder. (In Czech.) Ceskoslov. Akad. Zeméděl. Věst. 24:559-562. Dec. 1950. 19.5 C332

28908 DHARMANI, L. C., and LOHARA, K. S. Feeding of farm animals. Indian Farming 11:119-121. Mar. 1950. 22 In283

28909 DIJKSTRA, N. D. The influence of artificial drying on the digestibility of grass. Cong. Internatl. des Indus. Agr. Rap. 8(1):439-442. 1950. 388 C765

28910 EZCURRA, J. C. Consideraciones sobre la harina de pescado en la alimentaci6n de animales domésticos. Asoc. Rur. del Uruguay. Rev. 77(12):12-13. Dec. 1950. 9.9 As5

28911 GERICKE, S. Das spurenelement fluor in der tierernährung. Landwirtbl. Weser-Ems 97:966-967. Nov. 16, 1960. 18 L2345



- 28912 GILCH, R. Sind die unkrauter wertlos? Deut. Landwirt. Presse 73(25):4-5. Dec.2,1950. 18 D482  
As feed.
- 28913 GREENSLADE, J. A. Milk products can change your whole feeding policy. Smallholder 84(2122):26. Jan. 19,1951. 10 Sm1
- 28914 GUTKNECHT, H. Zur diesjährigen winterfütterung. Grüne 78:1339-1343. Dec.8,1950. 17 Sch9
- 28915 HAPP. Futtermittel der getreideschrotmischung bei der hackfruchtmast. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:43. (Concl.) Jan.11,1951. 18 L2346
- 28916 HORST, E. G. More about minerals in 1951. Flour & Feed 51(8):33. Jan.1951. 298.8 F66  
Minerals in animal nutrition.
- 28917 IGUCHI, K. Chikusan shiyo-gaku [Science of fodder for live-stock]. Tokyo,Yokendo,1950. 644 p. 389.7 Ig8
- 28918 INDERMÜHLE, K. Fütterungslehre. Ed. 14. Frauenfeld,Huber,1950. 140 p. 389.7 In2
- 28919 KLEIN-HESSLING, P. Mineralstofffütterung mit präparaten? III. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1454-1455. Oct.19,1950. 18 L2346
- 28920 KOCHAROV, S. S., and AIRAPETIAN, A. A. New type of feed. (In Russian.) Sovet. Zootekh. 5(9):38-89. Sept.1950. 49 So822  
Silage from byproducts of mulberry alcoholic distillation.
- 28921 LEROY, A. M. Utilité de l'adoption d'une méthode de reference permettant de calculer les besoins energetiques et les besoins de matières azotées des animaux domestiques. Cong. Internatl. des Indus. Agr. Rap. 8(1):149-153. 1950. 388 C765
- 28922 LOMA, J. L. DE LA. El ensilado vertical de los forrajes verdes. Tierra [México] 6:17-19,62. Jan. 1951. 8 T445
- 28923 MCINNES, A. A. Our natural resources. 2. Neptune's bounty. Health & Soil 1950:20-23. Winter 1950 .6.8 H34  
Discusses seaweed as feed and fertilizer.
- 28924 MACOLA, P. Proper feeding of livestock: compound feeds as an economical instrument of production. (In Italian.) Agenzia Romana Note e Inform. Agr. 1951:5-6. Jan.4,1951. 281.8 Ag3
- 28925 MARSTON, H. R. Problems associated with copper-deficiency in ruminants. In Symposium on Copper Metabolism, Johns Hopkins University, 1950. Copper metabolism, p.230-245. Baltimore, Johns Hopkins Press, 1950. 386.2 Sy62  
Includes discussion.
- 28926 MASON, A. H. By-products feed our livestock. Hoard's Dairyman 96:84-85. Jan.25,1951. 44.8 H65
- 28927 MAYMONE, B., and TIBERIO, M. Composition chimique, digestibilité et valeur nutritive des déchets de la culture des bananiers. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):560. 1950. 388 C765  
As feed for domestic animals.
- 28928 MAYMONE, B., and BATTAGLINI, A. La valeur nutritive des caroubes employées dans l'alimentation animale. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):559. 1950. 388 C765
- 28929 MEYER, W. Vorteile der rübenblattwäusche. Kontrollangestellte, p.2. In Unser Milchvieh. Ausg. B/C 2(11). Nov.1950. 43.8 Un72
- 28930 MOORE, H. I. Silos and silage. Ed. 2. London, Farmer & Stock-Breeder, 1950. 116 p. 60.7 M78
- 28931 MOORE, I. Which fodder shall I grow? Farmer & Stock-Breeder 3194:99. Jan.9,1951. 10 F228  
Relative yields and feeding values of forage crops.
- 28932 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Silage for security. II. Proof on a Tyrone farm. North. Ireland. Min. Agr. Mon. Rpt. 25:259-262. Jan.1951. 256.13 Ag82M
- 28933 OLIVE, J. P. D'une bonne alimentation azotée des animaux dépend en grande partie leur production. Porc 21(9):14-15. Nov.1950. 46.8 P822
- 28934 PARKER, F. M. Nutrition for 1951. Flour & Feed 51(8):28. Jan.1951. 298.8 F66  
Livestock.
- 28935 POULSEN, J. F. Silage preparation, silage and its effect on dairy products. (In Danish.) Dansk Landbr. 69:642-644. Dec.21,1950. 280.28 V91
- 28936 PROCK, W. Sinngemässe unwendung von mineralischen beifuttermitteln. Landwirtschaft 1950: 324-325. Nov.1950. 19 L235
- 28937 RAIMO, H. F. Notes on "Refinazil" and its nutritive value. (In Portuguese.) Rev. dos Criadores 21 (10):8,87. Oct.1950. 43.8 R32  
Protein by-product of corn.
- 28938 RATINEAU, J. Les rapports entre la production végétale et animale. Agriculture [Paris] 14:331-334. Dec.1950. 14 Ag823  
Livestock as transformers of plant food.
- 28939 RICCI, I. Livestock notebook. (In Italian.) Romagna Agr. e Zootec. 35(5):5. Mar.1950. 16 R66  
Feeding.
- 28940 RICHARDS, K. L. Ensilage. Countryman [Nicosia] 4(10):14-15. Oct.1950. 25 C83  
Preparation.
- 28941 SCHOCH, W. Über den einfluss der verfütterung von silage auf den stoffwechsel des wiederkäuers. Schweiz. Bauer 104(149):2;(151):2;105(2):2-3. (Cont.) Dec.22,29,1950, Jan.5,1951. 17 Sch95
- 28942 SELLERGREN, H. Silage. (In Swedish.) Lantmannen 34:1015-1016. Dec.30,1950. 11 L234
- 28943 SPITZER, R. R. Everyday nutrition for feedman. Flour & Feed 51(8):38. Jan.1951. 298.8 F66
- 28944 THOMAN, M. E. Principles of formula feed production. Assoc. Oper. Millers. B. 1951:1874-1876. Feb.1951. 298.9 As7
- 28945 TIMOFEEV, B. Z. Preparation of potato silage. (In Russian.) Sotsialist. Zhivotnovod. 12(8):35-37. Aug.1950. 49 So71
- 28946 UNIVERSITY COLLEGE OF WALES. DEPT. OF AGRICULTURAL ECONOMICS. Silage-making in Wales, 1949, the present position and costs of production, by A. M. M. Rees. Aberystwyth, 1950. 18 p. 60.7 Un33
- 28947 VALDINOCI, M. Proper feeding of livestock. (In Italian.) Agenzia Romana Note e Inform. Agr. 1951(2):7. Jan.10,1951. 281.8 Ag3
- 28948 VARGAS, L. Modernas normas de alimentación de animales. Cult. Mod. 33:366. Oct.1950. 15 C89
- 28949 VIRTANEN, A. I. The pH value of AIV-silage. (In Swedish.) Lantmannen 34:999. Dec.23,1950. 11 L234
- 28950 WATSON, S. J. Grass as a source of animal feeding stuffs. J. Sci. Food & Agr. 1:317-322. Ref. Nov. 1950. 382 So12
- 28951 WEISS, H. Ein neuer vorschlag zur überschlägigen bewertung der müllereiabfälle als futtermittel. Müllerei 3:685-687. Oct.21,1950. 298.8 M91
- 28952 ZAFREN, S. I. Silage preparation from waste of vegetables. (In Russian.) Sotsialist. Zhivotnovod. 12(8):38-42. Aug.1950. 49 So71

## VETERINARY MEDICINE

- 28953 ALABAMA. STATE VETERINARIAN. Annual report for fiscal year ending September 30, 1950. Auburn, 1950. 41 p. 41.9 AL1  
By R. S. Sugg.
- 28954 ALLCROFT, R., and BLAXTER, K. L. Lead as a nutritional hazard to farm livestock. III-V. J. Compar. Path. & Ther. 60:177-218. Ref. July 1950. 41.8 J82  
III, Factors influencing the distribution of lead in the tissues, by K. L. Blaxter, p. 177-189; IV, Distribution of lead in the tissues of bovines after ingestion of various lead compounds, by R. Allcroft, p. 190-208; V, The toxicity of lead to cattle and sheep and an evaluation of the lead hazard under farm conditions, p. 209-218.
- 28955 ANDRADE, H. Las paratosis de los animales domésticos. Campesino [Santiago] 82(11):97-101. Nov. 1950. 9.3 So12
- 28956 ANSELMINI, G. Pentobarbital sodium (Pentonal Maccagni) in anesthesis in operative surgery. (In Italian.) Prog. Vet. 5:684,687-688. Dec.15,1950. 41.8 P942
- 28957 APICE, V. B. D'. Periodicals of veterinary medical interest. (Their use and list). (In Portuguese.) Soc. Paul. de Med. Vet. B. 8:249-261. June 1950. 41.9 So13  
English summary.
- 28958 BACHRACH, H. L. Optimum conditions for the partial fractionation by ultracentrifugation of guinea pig lymph diseased with foot-and-mouth virus into infectious and complement fixing components. Acta Path. et Microbiol. Scand. 27:902-906. 1950. 448.3 Ac8
- 28959 BAILEY, J. W. Poisoning of farm animals; the more chemicals we use on the farm the greater danger there is to our livestock. Hoard's Dairyman 96:154. Feb.10,1951. 44.8 H65



- 28960 BEGG, H. Diseases of the stomach of the adult ruminant. *Vet. Rec.* 62:797-808. Dec.23,1950. 41.8 V641  
Includes discussion.
- 28961 BOQUIEN. Sur une épidémie de charbon animal et humain observée dans le Morbihan. *Acad. Natl. de Méd. B.* (ser.3)134:585-589. Ref. Oct.17/24,1950. 448.9 P21
- 28962 CARRERE, L., and RENOUX, G. Sur l'importance des brucelloses en France. *Acad. Natl. de Méd. B.* (ser.3)134:620-622. Oct.31/Nov.7,1950. 448.9 P21  
Human and animal.
- 28963 CASTEJON, R. Nuevos servicios veterinarios estatales. *B. de Zootecnia* 6:323-325. Oct.1,1950. 41.9 So16
- 28964 CRAVINO BELLONI, N. Carunculo bacteridiano. Uruguay. *Min. de Ganad. y Agr. B. Inform.* 349:19. Nov.30,1950. 9.9 G15B
- 28965 CUBONI, E. Toxoplasmosis. (In Italian.) *Clin. Vet.* 73:321-329. Nov.1950. 41.8 C61
- 28966 DALRYMPLE-CHAMPNEYS, SIR W. An epidemiologist's reflections on some laboratory tests in brucellosis. *Amer. J. Pub. Health* 41:152-157. Ref. Feb.1951. 449.9 Am3J  
Chiefly human.
- 28967 DENMARK. VETERINÆRE SUNDHEDSRÅD. Årsberetning fra det Veterinære Sundhedsråd for året 1949 [Annual report of the Veterinary Health Council for the year 1949]. København,1950. 115 p. 41.9 D412
- 28968 DENMARK. VETERINÆRE SUNDHEDSRÅD. Dispensatorium veterinarium, 1950. (In Danish.) København,Gyldendal,1950. 181 p. 41 D412
- 28969 DOLLAR, J. A. W. Dollar's veterinary surgery; general, operative, and regional. Ed. 4, by J. J. O'Connor. London,Baillière,1950. 1036 p. 41 D69D
- 28970 DOWNING, C. W. Accident with strain 19. *Vet. Med.* 46:117-118. Mar.1951. 41.8 M69  
Brucellosis in farmer pricked with syringe of vaccine.
- 28971 EDWARDS, J. T. Veterinary medicine during the past fifty years. *Vet. Rec.* 63:1-3,13-18;29-31. (Cont.) Jan.6-20,1951. 41.8 V641
- 28972 EGGERT, O. K. 'Physikalische tiermedizin, v.1. Stuttgart,Enke,1950. 187 p. 41 Eg34
- 28973 ESCARTIN, A. Los antihistamínicos de síntesis en veterinaria. *Veterinaria* 14:983-991. Ref. Dec.1950. 41.8 V6429
- 28974 FAUST, E. C. Disease of domestic animals and human welfare. *Acta Trop.* 7:289-297. 1950. 475 Ac8
- 28975 FAYE, H. Les curarisants en clinique vétérinaire. Applications spéciales à l'anesthésie et à quelques indications thérapeutiques. Paris,Foulon,1950. 138 p. Ref. 396 F29
- 28976 FEDERER, K. E. Contribución para la historia de la fiebre aftosa. *Gac. Vet.* 12:198-206. Sept./Oct. 1950. 41.8 G112
- 28977 GAYE, K. Essai de traitement de la trypanosomiase chez le dromadaire par le bromure de dimidium. French West Africa. *Insp. Gén. de l'Elevage. B. des Serv. de l'Elevage et des Indus. Anim.* 3:17-22. Jan./Mar. 1950. 41.9 F88B
- 28978 GOLD COAST COLONY. DEPT. OF ANIMAL HEALTH. Report for the year 1949-50. Accra,1950. 10 p. 41.9 C562
- 28979 GORNÉS GÓMEZ, H. Apuntes a una patología marroquí. *Veterinaria* 14:993-1004. Dec.1950. 41.8 V6429
- 28980 GORNÉS GÓMEZ, H. Lucha contra algunas enfermedades infecciosas. Ganadería [Madrid] 8:585-586. Sept.1950. 49 G15
- 28981 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Report on animal health services for the year 1948. London,1950. 51 p. 41.9 G792R
- 28982 GUILHON, J. Thiodiphénylamine disulfonate de calcium et strongyloses gastro-intestinales. *Acad. Vét. de France. B.* 23:477-480. Nov.1950. 41.9 R24
- 28983 GÜNTHER, O. Arbeitsanweisung für das "Kleine VE-Veterinär-Bestück" zur serologischen typhus-paratyphus-enteritis-diagnostik nach Dr. O. Günther. *Lebensmitteltierarzt* i:122-127. Aug.1950. 41.8 L49
- 28984 HANSEN, A., and HOLM, P. Combination of foot- and mouth disease virus, albumen and protamine. *Acta Path. et Microbiol. Scand.* 27:882-887. 1950. 448.3 Ac8
- 28985 HART, G. H. Extension work for and by veterinarians. Pa. U. Sch. Vet. Med. *Vet. Ext. Q.* 121:27-30. Jan.13,1951. 41.9 P386
- 28986 HENKELS, P., and EGGERS, H. Zur sulfonamid- und penicillinbehandlung in der tierärztlichen ausenpraxis. *Monatsh. f. Vetmed.* 5:312-314. Dec.1950. 41.8 M742
- 28987 HIGGINS, C. C. Experimental production of urinary calculi. *Amer. Vet. Med. Assoc. J.* 118:81-85. Feb.1951. 41.8 Am3
- 28988 HOUT, A. VAN. Control of tularemia. (In Flemish.) *Cult. en Handel* 16:556. Sept.1950. 80 C892
- 28989 JELINEK, V. The distribution of leptospirosis in the man and animals in Tschechoslovakia. (In Polish.) *Med. Weter.* 6:398-405. Ref. July 1950. 41.8 M463  
English summary.
- 28990 KALCHSCHMIDT, H. G. Der torsio-geburtshaken. *Tierärztl. Umschau* 6:10-12. Jan.1951. 41.8 T445
- 28991 KAYESES. Some helminth parasites and their control. *Agr. & Anim. Husb.* 1(3):78-82. Apr./Aug.1950. 22 Ag86  
In livestock.
- 28992 KELSEY, R. A. Adaptation of viruses to different host species and different tissues. Pa. U. Sch. Vet. Med. *Vet. Ext. Q.* 121:31-43. Jan.13,1951. 41.9 P386
- 28993 KESTER, W. O., and MILLER, E. B. Veterinary aspects of atomic explosion. *Indian Farming* 11:131-135. Mar.1950. 22 In283
- 28994 KIRKSEY, G. Aftosa fight—success or failure? *Coastal Cattleman* 16(10):27. Dec.1950. 43.8 C63
- 28995 KIRKSEY, G. Authorities say no great cause for alarm in new aftosa outbreak. *Amer. Hereford J.* 41(19):78. Feb.1,1951. 43.8 Am32  
Mexico.  
Similar title in Calif. *Cattleman* 1951:7,22. Feb.1951. 43.8 C12
- 28996 KIRKSEY, G. Foot and mouth disease situation. *Cattleman* 37(9):18. Feb.1951. 49 C29  
Mexico.
- 28997 KJELLANDER, E. Insecticides and the barn. (In Swedish.) *Mjölpropaganda*, 27:189-191. Aug.1950. 44.8 M692  
Effects on livestock.
- 28998 KRAL, F. Examination by endoscope. No. *Amer. Vet.* 32:91-95. Feb.1951. 41.8 N812
- 28999 LAGERLÖF, N. Los veterinarios en la reproducción y la cría de los animales. *Holando Argentino* 8(86):70-71. (To be cont.) May 1950. 43.8 H68
- 29000 LEE, D. H. K. Los estudios fisiológicos en su aplicación al mejoramiento ganadero. *Turrialba* 1:68-73. Oct.1950. 8 T86
- 29001 LOUIS-MARIE, P. Deux cas de tératologie animale. III. *Rev. d'Oka* 24:226. Nov./Dec.1950. 7 Ok1
- 29002 MCGAUGHEY, C. A. Ulcerative stomatitis in an elephant, suspected to have been caused by acetic acid. *Vet. Rec.* 62:813-814. Dec.23,1950. 41.8 V641
- 29003 MARCHAL, J. G. Diagnostic des affections à *Brucella melitensis* par le sérodiagnostic de Wright. Nancy. U. Facul. de Pharm. *Assoc. des Diplômés de Microbiol. B.* 41:22-25. Oct.1950. 448.2 N152
- 29004 MERCK AND CO. Streptomycin and dihydrostreptomycin in veterinary medicine; annotated bibliography. Rahway,N.J.,1950. 15 p. 241.64 M53Stre
- 29005 MICUDA, J. The role of whole blood transfusion in veterinary medicine. M. S. C. Veterinarian 11:61-65. Winter 1951. 41.8 M582
- 29006 MORALES OTERO, P. Anthrax. *Rev. del Café* 6(5):17-18. Oct.1950. 8 R3295
- 29007 MORALES OTERO, P. Septicemia hemorrágica (pasteurellosis). *Rev. del Café* 6(7):26-27. Dec.1950. 8 R3295
- 29008 MOUSSATCHÉ, I. Preventing deficiency diseases. (In Portuguese.) *Seleç. Agr.* 5(56):68-69. Dec. 1950. 9.2 Se4  
In livestock.
- 29009 MULLICK, D. N. Climate and animal health. *Indian Farming* 11:148-150. Apr.1950. 22 In283
- 29010 MUÑOZ NORONA, A. La fiebre aftosa. Manabí, Ecuador. *Consorcio de Cent. Agr. B.* 12(63):42-45. July/Sept.1950. 9.5 M31
- 29011 MUÑOZ RODES, A. Castración. *Rev. Ganad.* [Habana] 11:41-42. Jan.1951. 49 R321
- 29012 NYASALAND PROTECTORATE. DEPT OF VETERINARY SERV. Annual report for the year ended 31st December, 1949. Zomba,1950. 14 p. 41.9 N98



- 29013 ONTARIO VETERINARY COLLEGE. Report, 1949. Toronto, 1950. 145 p. 41.9 On8R
- 29014 OONYAWONGSE, R. Diethylstilbestrol and its therapeutic value in veterinary practice. Vet. Assoc. Thailand. J. 2:77-82. Ref. Oct. 1950. 41.9 S112
- 29015 ORDONEZ B., M. El médico veterinario en la salud pública. Colombia. U. Nac. Facul. de Med. Vet. y de Zootec. Rev. 19:277-278. Aug./Nov. 1950. 41.8 R3214
- 29016 PARNAS, J. Cosmopolitism in veterinary medicine. (In Polish.) Med. Water. 6:393-395. July 1950. 41.8 M463
- 29017 PISTOR, W. J. Ringworm on livestock. Ariz. Agr. Col. Ext. C. 173,2 p. Nov. 1950. 275.29 Ar42
- 29018 PREVOT, A. R., HUET, M., and TARDIEUX, P. Etude de vingt-cinq foyers récents de botulisme animal. Acad. Vét. de France. B. 23:481-487. Nov. 1950. 41.9 R24
- 29019 RAS CROTTO, N. P. Interrelaciones hormonales en los fenómenos sexuales. Gac. Vet. 12:214-228. Ref. Sept./Oct. 1950. 41.8 G112
- 29020 REMLINGER, P. Ce que devra être la prochaine conférence internationale de la rage. Rev. d'Immunol. 14:382-385. 1950. 448.8 R323
- 29021 REMLINGER, P. La disparition de la rage en France et ses conséquences. Acad. Natl. de Méd. B. (ser. 3) 134:631-632. Oct. 31/Nov. 7, 1950. 448.9 P21
- 29022 RICO, J. Lo que vi en Francia sobre la fiebre aftosa. Rev. Nac. de Agr. 44(548):25-29. Dec. 1950. 9.4 R32
- 29023 ROBIN, V., and CHARTON, A. Phénomènes d'hydratation et de déshydratation chez les animaux domestiques. Rev. de Path. Compar. 50:600-612. Oct. 1950. 448.8 R326  
Includes discussion.  
Various types of edema.
- 29024 RUBIO LOZANO, F. Presentación de la fiebre aftosa en México. Colombia. U. Nac. Facul. de Med. Vet. y de Zootec. Rev. 19:270-276. Aug./Nov. 1950. 41.8 R3214  
Reported by C. E. Morales R.
- 29025 RUNNELLS, R. A. Granulomatous inflammation of domestic mammals. Iowa State Col. Vet. 13:15-17. Ref. 1951. 41.8 V6425
- 29026 SAPIRO, M. L. Studies on the photosensitization of animals in South Africa. XII. An attempt to identify the icterogenic factor in geeldikkop; the reaction of nitrous acid on chlorophyll. Onderstepoort J. Vet. Sci. & Anim. Indus. 24:105-118. Ref. Apr. 1950. 41.8 On1
- 29027 SCHMITT, G. M. C. Contribution à l'étude des leptospiroses animales. Paris, Chantelard, 1950. 62 p. Ref. 41.2 Sch528
- 29028 SEETHARAMAN, C. Economic importance of foot-and-mouth disease. Indian Farming 11:155-156. Apr. 1950. 22 In283
- 29029 SEREBRIÁKOV, P. N. On some physiological problems of farm animals. (In Russian.) Sovet. Zootekh. 5(9):19-29. Sept. 1950. 49 So822
- 29030 SINODINOS, E. Contribution à l'étude du dosage de l'adrénaline. La méthode à la para-nitro-aniline. Paris, Foulon, 1950. 76 p. Ref. 41.2 S163
- 29031 SOKOLOWSKY, W. Die Grundlagen der Wirkung des follikelhormones und seine Bedeutung für die Bekämpfung der ovarial bedingten Unfruchtbarkeit der landwirtschaftlichen Nutztiere. Tierärztl. Umschau 6:1-10. Ref. Jan. 1951. 41.8 T445
- 29032 SPARAPANI, G. C. Let us protect livestock raising. (In Italian.) Agr. Ital. 1:642-645. Ref. Dec. 15, 1950. 16 Ag822  
Brucellosis control.
- 29033 STEGENGA, T. Vibrio foetus en enzootische steriliteit (Vibrio foetus and enzootic sterility). Utrecht? 1950. 142 p. 41.2 St37
- 29034 STEPHAN, H. Wie verändert die domestikation den feinkbau des gehirnes? Aufschlüsse reiche forschungen der haustierkunde. Umschau 50:753-754. Dec. 15, 1950. 474 Um7
- 29035 STEWARD, J. S. Notes on some parasites of camels (Camelus dromedarius) in the Sudan. Vet. Rec. 62:835-837. Dec. 30, 1950. 41.8 V641  
Ticks (Hyalomma sp.), flies (Hippobosca camelina and Cephalopsis titillator), nematodes, and cestodes.
- 29036 STEWARD, J. S. Trichostrongylosis and haemonchosis in the camel: their recognition and response to phenothiazine. Vet. Rec. 62:837-839. Dec. 30, 1950. 41.8 V641  
Trichostrongylus probolurus; Haemonchus longistipes.
- 29037 STRYSZAK, A. The role of water in the spreading of infectious diseases and the fate of pathogenic organisms in natural waters. (In Polish.) Med. Weter. 6:408-410. July 1950. 41.8 M463
- 29038 SUSSMAN, O. The veterinarian in public health. N. J. Dept. Health. Pub. Health News 31:327-330. Nov. 1950. 44.7 N46P
- 29039 SWITZERLAND. LAWS, STATUTES, ETC. Eidgenössische tierseuchengesetzgebung. Kommentar zum bundesgesetz betreffend die bekämpfung von tierseuchen vom 13. juni 1917 und zur vollziehungsverordnung zu diesem gesetz vom 30. august 1920, von G. Flückiger und E. v. Waldkirch. Ed. 4. Bern, Huber, 1950. 224 p. 41.5 Sw5E1
- 29040 TERENCE. La thérapeutique au niveau des civilisations. Ann. de Méd. Vét. 94:592-618. Nov. 1950. 41.8 An78
- 29041 TEUNISSEN, G. H. B. Thorax surgery on small livestock. (In Dutch.) Tijdschr. v. Diergeneesk. 76:17-23. Jan. 1, 1951. 41.8 T431
- 29042 TORRENS PASTOR, A. Misión social del veterinario español. Balearic Isl. Diputación Prov. B. de Agr. 73:7. Oct. 1950. 15 B19
- 29043 U. S. BUR. OF ANIMAL INDUSTRY. Program for employment of veterinary trainees. Washington, 1950. 5 p. 1.972 A2P945
- 29044 VERWEY, W. F., HARRINGTON, N. H., and MATT, C. Factors influencing the properties of desiccated Brucella abortus vaccine. (Abs.) Vet. Med. 46:59, 61. Feb. 1951. 41.8 M69
- 29045 WALDMANN, O. La lucha antiaftosa en la Argentina; respuesta a los comentarios del Doctor Enrique García Mata. Gac. Vet. 12:195-197. Sept./Oct. 1950. 41.8 G112
- 29046 WILSON, F. B. Notes from the book of experience. Iowa State Col. Vet. 13:9-10. 1951. 41.8 V6425  
Veterinary medicine as seen by a veterinarian's wife.
- 29047 WOLTER, H. Theracok, ein neues mittel in der tierärztlichen praxis. Tierärztl. Umschau 6:28-29. Jan. 1951. 41.8 T445
- 29048 WOOLDRIDGE, W. R. 150 years of progress in veterinary science. Vet. Med. 46:62-64. Feb. 1951. 41.8 M69
- 29049 WORLD HEALTH ORGANIZATION. EXPERT COMMITTEE ON RABIES. Report on the first session, Geneva, 17-22 April 1950. World Health Organ. Tech. Rpt. Ser. 28, 26 p. Nov. 1950. 449.9 W892T
- 29050 YAOI, H., and others. Studies on the rabies vaccine. Reports I-IV. Jap. J. Expt. Med. 20:393-399, 597-625. Ref. Dec. 30, 1949, July 30, 1950. 448.8 J272  
S. Nakagami, M. Nakano, and A. Kondo, joint authors.  
I, Inactivation of the fixed rabies virus with merzonin and heat, p. 393-399; II, Comparison of Pasteur's vaccine, phenol-vaccine, formalin-vaccine with merzonin-vaccine, p. 597-604; III, On the antigenicity of the fixed rabies virus, inactivated by mercurochrome or merphenol and heating, p. 605-614; IV, On some factors influencing antigenicity of merzonin-vaccine, p. 615-625.
- 29051 ZAHN, H. Feinbau und chemie der tierischen haare. (Sum.) Angew. Chem. (Ausg. A) 62:538. Nov. 21, 1950. 384 Z33

## MISCELLANEOUS

- 29052 AMSCHLER, J. W. Generalbericht über die im rahmen der 24. hochschulwoche stattgefundene Tierzuchttagung (13 und 14: juni 1950) an der Hochschule für Bodenkultur in Wien. Bodenkultur 4:278-308. 1950. 19 B635
- 29053 ANDERSON, R. It costs \$5 to kick a hog. Farm J. 75(3):29. Mar. 1951. 6 F2212  
Bruise losses of meat animals.
- 29054 ANDREAE, B. Die wandlungen in den betriebsformen der deutschen schaf- und rindviehhaltung seit mitte des 19. jahrhunderts. Z. f. Tierzücht. u. Züchtbiol. 58:473-510. Ref. July 1950. 442.8 Z35
- 29055 ARNOTTO, L. D. La protection des animaux. Acclimatation 77:277. Dec. 30, 1950. 14 Ac2
- 29056 BUNSE, C. Soluciones a problemas de la ganadería argentina. El cambio de marcas y señales. Rev. Ganad. [Buenos Aires] 30(710):12, 14. June 1950. 49 R32
- 29057 CLAVADETSCHER, C. Die erneuerte schlachtviehordnung. Grüne 78:1273-1274. Nov. 24, 1950. 17 Sch9  
Switzerland.
- 29058 GLASSCOCK, R. S. Spring decides fate of stock. Fla. Growers 59(2):42-43. Feb. 1951. 80 F6622



- 29059 HOLMBERG, C. B. Electric grooming replaces the old brush. (In Swedish.) *Mjölpropagandan* 27: 203-204. Aug.1950. 44.8 M692
- 29060 LACOSTE, R. Coyote—enemy and friend. *Rec. Stockman*, Annu. Ed. (1951)61(52):142,144. Dec.28, 1950. 49 D43
- 29061 MACK, J. Can you read brands? *West. Horseman* 16(2):9. Feb.1951. 42.8 W522
- 29062 POWNALL, H. Tips on animal photography. *Better Farming Methods* 23(2):14-15. Feb.1951. 58.8 B46
- 29063 ROGERS, R. L. Five essential factors for a better livestock industry. *Sheep & Goat Raiser* 31(4):8-9. Jan.1951. 45.8 Sh3
- 29064 SHIMENO, Y. *Chikusan kefei sodan* [Livestock management guide]. Tokyo, Asakura Shoten, 1950. 292 p. (Shin Chikusan Sodan Sosho) 40 Sh6
- 29065 SHLOMO. In favour of deep litter. (In Hebrew.) *Hassadeh* 31:110-111. Nov./Dec.1950. 26 H27
- 29066 TRUDOLUBOV, B. A. Jubilee conference of the All-Union Scientific Research Institute of Animal Husbandry. (In Russian.) *Sotsialist. Zhivotnovod.* 12(8): 92-96. Aug.1950. 49 So71
- 29067 U. S. BUR. OF ANIMAL INDUSTRY. Report of the chief, 1949/50. Washington, 1950. 105 p. 1 An5A
- 29068 WYOMING. LIVE STOCK AND SANITARY BOARD. Ninth biennial report, for the period October 1, 1948 to October 1, 1950. Cheyenne, 1950. 23 p. 41.9 W992

## CATTLE

## Breeds and Breeding

- 29069 ALBAUGH, R., and GUILBERT, H. R. Protect your bull investment. *West. Livestock J.* 29(7):38,60, 62-63. Jan.15, 1951. 6 F2278
- 29070 ALBRECHT, R. Artificial insemination spreads rapidly in Midwest. *Prairie Farmer* 124, i.e. 123(2):6. Jan.20, 1951. 6 P883
- Dairy cattle.
- 29071 AMERICAN GUERNSEY CATTLE CLUB. The performance register of the American Guernsey Cattle Club, v.3, data from January 1, 1947 to January 1, 1950. n.p., 1950? 1395 p. 43.9 Am33P
- 29072 ARNOULD, C. La vache jersiaise. *Monit. Agr.* 4(143):4. Jan.7, 1951. 14 M744
- 29073 ARRUTI, F. Étude de quelques facteurs intervenant dans le transport du sperme. Paris, Diéval, 1950. 48 p. Ref. 40 Ar63
- For artificial insemination of cattle.
- 29074 BARKER, C. A. V. Testicular biopsy techniques in bulls. *Ontario Vet. Col. Rpt.* 1949:130-132. 1950. 41.9 On8R
- For study of sterility.
- 29075 BATTLES, O. V. Are champions genetic accidents. *Aberdeen-Angus J.* 32(6):62,88,90. Jan.1951. 43.8 Ab3
- 29076 BENDOWSKI, O. Zuchtwahl und fettvererbung. *Kontrollangestellte*, p.1-2. In *Unser Milchvieh*. Ausg. B/C 2(11). Nov.1950. 43.8 Un72
- 29077 BIAVATI, F. Milk supply and experimental study on dairy production of the Friesian and Brown Swiss breeds in 7 centers of the Province of Bologna. (In Italian.) *Zootec. e Vet.* 5:822-823. Oct.1950. 41.8 Z7
- 29078 BISHOP, D. W. Anaerobic pickup of p32 by seminal bull sperm. (Abs.) *Anat. Rec.* 106:573. Nov. 1950. 447.8 An1
- 29079 BONADONNA, T. German Ostfriesland. (In Italian.) *Italia Agr.* 87:749-778. Dec.1950. 16 It1
- Chiefly on the genealogy of the Holstein-Friesian cattle.
- 29080 BONADONNA, T. The Milan bull center. (In Italian.) *Latte* 24:431. Dec.1950. 44.8 L35
- 29081 BONADONNA, T. Problemes de la dilution du sperme de taureau. Colombia. U. Nac. Facul. de Med. Vet. y de Zootec. Rev. 19:259-266. Ref. Aug./Nov.1950. 41.8 R3214
- 29082 BONADONNA, T. What you pay and what you gain using artificial insemination. (In Italian.) *Zootec. e Vet.* 5:887-893. Oct.1950. 41.8 Z7
- Cattle.
- 29083 BOWDEN, W. E. Selection of bulls for artificial insemination. *Ayrshire Cattle Soc. J.* 22:272-276. Jan.1951. 43.8 Ay74
- 29084 BRIAT, C. Entretien du taureau et insémination artificielle. Paris, Foulon, 1950. 92 p. Ref. 43 B762
- 29085 BRIQUET JÚNIOR, R. Inheritability of coat [color] in Holstein Friesian cattle. (In Portuguese.) *Esc. Super. de Vet. do Estado de Minas Gerais. Arq.* 2:93-96. 1949. 41.9 M662
- English summary.
- 29086 CAMPBELL, S. Fifty years among Shorthorns. *Scot. Farmer* 58:1562. Dec.23, 1950. 10 Sco8
- 29087 CANADIAN HEREFORD ASSOCIATION. The Canadian Hereford herd book, v. 32. Owen Sound, Richardson, Bond & Wright, 1950. 1005 p. 43.9 C164
- 29089 CAROLIS, V. DE. Breeding stock of the Holstein-Friesian breed of cattle. (In Italian.) *Italia Agr.* 87:657-662. Nov.1950. 16 It1
- 29089 CAVE, R. A. Artificial breeding. S. Dak. State Col. Agr. Ext. L. 131, 6 p.-folder. June 1950. 275.29 So85E
- Dairy cattle.
- 29090 CHITTENDEN, D. W. Polled Herefords in 1950. *Breeder-Stockman* 12(9):31. Feb.1951. 49 V81
- 29091 COLBERT, A. H. O., and others. How the judges see a winner. *Shorthorn News* 11(4):9-14. Dec. 1950. 43.8 Sh85
- Contents: The value of size, by A. H. O. Colbert; The value of a good middle, by L. H. Hamilton; The value of a good rib, by R. G. Knox; Value of evident breediness, by R. Gardhouse; One man's opinion of bad legs on a bull as he sees them in the show ring, by J. W. Durno; The value of a good head, by F. G. Muirhead; The value of good colour, coat and hide, by G. M. Campbell; The value of style, by J. A. Watt; The value of proper balance as a judge sees it, by W. H. Black.
- Shorthorn cattle.
- 29092 CORDIEZ, E. Ravitaillement protidique et pouvoir fécondant du taureau. *Ann. de Méd. Vét.* 94:618-663. Ref. Nov.1950. 41.8 An78
- 29093 COTA, A. B. To dairy cattle producers. (In Portuguese.) *Gaz. do Agr.* 2:235-236. Oct.1950. 24 G25
- Breeding.
- 29094 DE LANGE, M. The influence of delayed breeding on the fertility of beef heifers. *Onderstepoort J. Vet. Sci. & Anim. Indus.* 24:125-354. Ref. Apr.1950. 41.8 On1
- 29095 DELL, A. Ganado escoces. *Rev. Canad. [Habana]* 11:38-39. Jan.1951. 49 R321
- 29096 DESCLAUDE, G. Le contrôle laitier et les livres généalogiques constituent les facteurs clés d'une sélection rationnelle du bétail. *Paysan Franç.* 26(397):9. Jan.1951. 14 P29
- 29097 DIETEN, S. W. J. VAN, and KAAV, F. C. VAN DER. Travel recollections from Denmark and Sweden, summer 1949. (In Dutch.) *Tijdschr. v. Diergeneesk.* 75:887-899. Nov.1950. 41.8 T431
- Chiefly on artificial insemination of cattle in Denmark and Sweden.
- 29098 EDWARDS, J. Los problemas de la inseminación artificial contra la esterilidad. *Rev. Nac. de Agr.* 44(548):23-24. Dec.1950. 9.4 R32
- Dairy cattle.
- 29099 EIBL, K. Die molkereien und die künstliche rinderbesamung in Bayern. *Süddeut. Molck.-Ztg.* 71: 1782-1783. Dec.22, 1950. 44.8 Su2
- 29100 ERDMANN, F. Holando Argentino puro por cruzamiento; necesidad de organizar y controlar su genealogía. *Holando Argentino* 8(86):27-28. May 1950. 43.8 H68
- 29101 FAIRWEATHER, G. Red Polls in Scotland. *J. Red Poll Breed* 26(98):34-37. Winter 1950. 43.8 J82
- 29102 FERREIRA, J. T., LEITÃO, M., and ARROTEIA, S. Miranda cattle. (In Portuguese.) *Portugal, Dir. Geral dos Serv. Pecuários. B. Pecuário* 16(1), 257 p. 1950. 41.8 P83
- Miranda cattle (description), by J. T. Ferreira, p. 3-49; Miranda cattle (biometrical study), by M. Leitão, p. 51-250; Some notes on the group of Miranda cattle at the National Zootechnical Station, p. 251-257.
- 29103 FOLEY, L. K. A study in bulls. *Jersey B.* 70: 92-93, 127-130. Jan.25, 1951. 43.8 J48
- 29104 FRIGGENS, P. How to take the gamble out of buying a bull. *Farm J.* 75(2):35,165-167. Feb.1951. 6 F2212
- 29105 GASSNER. Auswahl der zuchtkälber und ihre aufzucht. *Allgäuer Bauernbl.* 18:753-754. Dec.21, 1950. 18 AL53
- 29106 GAZTAMBIDE ARRILLAGA, C. Razas de ganado lechero. *Rev. del Café* 6(7):33. Dec.1950. 8 R3295



- 29107 GENOUD, J. F. Las aptitudes del Holando Argentino. *Holando Argentino* 8(86):30-32, 66. May 1950. 43.8 H68
- 29108 GÜNTART, A. Zur hochzucht des rindes. *Grüne* 78:1361-1362. Dec. 15, 1950. 17 Sch9
- 29109 HAMBURGER, H. Die station für künstliche besamung in Helmstadt. *Bad. Landwirt. Wchnbl.* 117: 747-748. Nov. 4, 1950. 18 B142  
For cattle.
- 29110 HARRIS, J. New life for a butter-fat breed; how South Devon breeders came to win a quality premium which is bringing them in £1000,000 a year. *Farmer & Stock-Breeder* 65:416-417. Feb. 6, 1951. 10 F228
- 29111 HERMELIN, A. A. The English cattle industry uses many breeds. (In Swedish.) *Lantmannen* 34:1009-1011. Dec. 30, 1950. 11 L234
- 29112 HERRICK, J. B. Massnahmen zur erhöhung der fruchtbarkeit beim rind. *Pflug* 3:258-259. Dec. 1950. 10 P48
- 29113 HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA. Holstein-Friesian herd-book containing a record of all Holstein-Friesian cattle approved and admitted for entry since the close of the last volume, v. 115-117. *Brattleboro*, 1950-1951. 3 v. 43.9 H74
- 29114 HYATT, G., and TYLER, W. G. Dairy type; what is it worth to you? *Hoard's Dairyman* 96:61, 76-77. Jan. 25, 1951. 44.8 H65
- 29115 TATSENKO, A. E., and KIRICHENKO, G. A. Lebedinsk breed of [dual purpose] cattle. (In Russian.) *Sovet. Zootekh.* 5(10):9-22. Oct. 1950. 49 So822
- 29116 JONES, E. Welsh wild cattle. *Nat. Lover* 7: 469-470. Dec. 1950. 410 N218
- 29117 KADUSKAR, S. P. Hints to agriculturists on live-stock improvement and conservation of cattle health. *Nagpur Agr. Col. Mag.* 25:56. June/Sept. 1950. 107.5 N132
- 29118 KAMPSCHMIDT, R. F., and others. Sedimentation of spermatozoa and settling of diluter solids and their effects upon survival of spermatozoa during storage. *J. Dairy Sci.* 34:21-27. Jan. 1951. 44.8 J822  
D. T. Mayer, H. A. Herman, and G. E. Dickerson, joint authors.
- 29119 KAMPSCHMIDT, R. F., and others. Viability of bull spermatozoa as influenced by electrolyte concentration, buffer efficiency and added glucose in storage media. *J. Dairy Sci.* 34:45-51. Ref. Jan. 1951. 44.8 J822  
D. T. Mayer, H. A. Herman, and G. E. Dickerson, joint authors.
- 29120 KILGORE, B. More milk, more butter in Kentucky. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 66(2):18. Feb. 1951. 6 P945K  
Artificial insemination.
- 29121 KIRK, W. G. Standard of excellence of ABBA is explained. *Fla. Cattleman* 15(4, sect. 2):48, 50. Jan. 1951. 43.8 F66  
American Brahman Breeders Association.
- 29122 KNIGHT, E. D. Segregating color inheritance. *Shorthorn World* 35(20):9-10, 49. Jan. 25, 1951. 43.8 Sh8
- 29123 LAUPRECHT, E., and DÖRING, H. Über die beziehungen zwischen den jahresleistungen und dem lebendgewicht des schwarzbunten niederungsrindes. II. *Milchwissenschaft* 5:416-418. Ref. Dec. 1950. 44.8 M5933  
English summary.
- 29124 LE HYARIC, M. L'insémination artificielle dans le Morbihan. New ed. Vannes, Imprimerie du Commerce, 1950. 36 p. 43 L522  
Dairy cattle.
- 29125 LEMLER, B. Selecting a herd sire. *Purdue Agr.* 42(4):7, 12. Jan. 1951. 6 P97
- 29126 MCCANN, L. P. Free martins; breeders or non-breeders? *Amer. Hereford J.* 41(18):54. Jan. 15, 1951. 43.8 Am32
- 29127 MACEDO, J. N. Successive gestations injure milk production. (In Portuguese.) *Seleç. Agr.* 5(56):72-73. Dec. 1950. 9.2 Se4
- 29128 MACKAY, W. Ayrshires' continued popularity in Kenya. *Ayrshire Cattle Soc. J.* 22:292-293. Jan. 1951. 43.8 Ay74
- 29129 MACMILLAN, D. M. El ganado lechero británico de la raza Guernsey. *Agr. Venezol.* 15(146):6-9. Sept. 1950. 9.95 Ag8
- 29130 MAULE, J. P. Improvement of cattle in hot climates. (In Hebrew.) *Hassadeh* 31:103-106. Nov./Dec. 1950. 26 H27
- 29131 MEGALE, F. On the incidence of sterility in cows in the State of Minas Gerais. (In Portuguese.) *Esc. Super. de Vet. do Estado de Minas Gerais. Arq.* 2:17-27. Ref. 1949. 41.9 M662  
English summary.
- 29132 MILK MARKETING BOARD OF ENGLAND AND WALES. Breeding is a business. *Thames Ditton, Surrey*, 1950. 35 p. 43 M59
- 29133 MILTNER. Das höhenvieh auf der DLG in Frankfurt am Main 1950. *Tierzüchter* 2:553-557. Nov. 5, 1950. 49 T445
- 29134 MOEST. Der kampf gegen die schwarzstiere. *Allgäuer Bauernbl.* 18:705-706. Nov. 30, 1950. 18 AL53
- 29135 NETTO, F. A. The improvement of cattle and milk control. (In Portuguese.) *Rev. dos Criadores* 21(10): 10-13, 82. Oct. 1950. 43.8 R32
- 29136 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF DAIRYING. Dairy sires and sire wastage. *Sydney*, 1950. 6 p. 43 N47
- 29137 NIXON, T. The history of Polled Herefords. *Ala. Farmer* 30(2, i.e. 3):8-10, 12. Dec. 1950. 276.8 AL1
- 29138 OERTZEN, H. U. V. Der neue weg der Rotbuntzucht Schleswig-Holsteins. *Tierzüchter* 2:559-561. Nov. 5, 1950. 49 T445
- 29139 OLIVIER, L. The Friesian, record holder of South Africa. (In Dutch.) *Friesch Landtbl.* 47:801. Dec. 22, 1950. 12 F91
- 29140 PALAZZO, A. Achievements in the livestock branch; the Fucino Breeding Center has determined the superiority of the Canadian Holstein-Friesian. (In Italian.) *Agenzia Romana Noté e Inform. Agr.* 75:1-2. Nov. 8, 1950. 281.8 Ag3
- 29141 PERKINS, S. Maine natural Shorthorn habitat; swing to Shorthorns evident in Aroostook County where the potato has reigned as kin. *Shorthorn World* 35(20):22-23. Jan. 25, 1951. 43.8 Sh8  
Maine.
- 29142 PERRY, E. J. Danish bull testing stations. *Hoard's Dairyman* 96:138. Feb. 10, 1951. 44.8 H65
- 29143 PICKETT, J. Meet those university [of New Jersey] inbred Jerseys. *Calif. Farmer, North. Ed.* 194: 106-107. Feb. 10, 1951. 6 C126
- 29144 POZO PELAYO, C. DEL. La trascendencia de la capa en la raza holandesa. *Agricultura [Madrid]* 19: 514-518. Nov. 1950. 15 Ag84
- 29145 RÊGO, J. F. DO. Estrus and dairy production. (In Portuguese.) *Seleç. Agr.* 5(56):54. Dec. 1950. 9.2 Se4
- 29146 RITTER, H. Bekämpfung der rindersterilität im rahmen des Rindergesundheitsdienstes. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:11. Jan. 4, 1951. 18 L2346
- 29147 ROHLFES. Betrachtungen zur stammbullenschau Cloppenburg. *Landwirtbl. Weser-Ems* 97:991-992. Nov. 23, 1950. 18 L2345
- 29148 ROTHSCCHILD, L. Electrical measurement of bull sperm activity. *J. Agr. Sci. [London]* 40:82-83. Jan./Apr. 1950. 10 J822
- 29149 SAGSTETTER, W. J. Brahman blood adds hybrid vigor & weight to English breeds. *Natl. Live Stock Prod.* 29(5):6, 17. Feb. 1951. 280.38 N21
- 29150 ST-PIERRE, A. Comment la race bovine Canadienne s'est imposée. *Digeste de l'Eleveur* 5(4):23-25. Dec. 1950. 49 D56
- 29151 ST-PIERRE, L. N. Relation entre la production de la mère et la valeur génitrice d'un taureau. *Digeste de l'Eleveur* 5(4):16-19. Dec. 1950. 49 D56
- 29152 SALISBURY, G. W., and VANDEMARK, N. L. The effect of cervical, uterine and cornual insemination on fertility of the dairy cow. *J. Dairy Sci.* 34:68-74. Ref. Jan. 1951. 44.8 J822
- 29153 SANDERS, D. Lässt sich die vererbung der milch- und fettleistung bei den rindern vorausbestimmen? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1451-1452. Oct. 19, 1950. 18 L2346
- 29154 SANDINO PARDO, R. Algunas bases para la correcta selección de vacas lecheras. *Colombia. U. Nac. Facul. de Med. Vet. y de Zootec. Rev.* 19:267-269. Aug./Nov. 1950. 41.8 R3214
- 29155 SARTHOU-MOUTENGOU, J. La frigidité des mâles employés dans les centres d'insémination artificielle. *France. Min. de l'Agr. B. Tech. d'Inform.* 54: 693-694. Nov. 1950. 14 F844B  
Cattle and horses.
- 29156 SCHÄFER. Nochmals: der kampf gegen die schwarzstiere. *Allgäuer Bauernbl.* 18:750-751. Dec. 21, 1950. 18 AL53



29157 SCHOTT, R. G., and others. Inheritance of certain body measurements and measures of performance in steers. (Abs.) *Genetics* 35:690-691. Nov.1950.

44.2 G28

W. M. Dawson, A. C. Cook, and M. L. Kohll, joint authors.

29158 SCHREIBER, G. Die unfruchtbarkeit des rindes. Württemb. Wchnbl. f. Landwirt. 117:1150-1151. Dec.23,1950. 16 W96

29159 SIERRA SERRANO, D. DE LA. La inseminación artificial en la vaca gallega. B. de Zootecnia 6:338-340. Oct.1,1950. 41.9 Sol6

29160 SKJAERVOLD, H. Current problems in connection with cattle meat production. (In Norwegian) (Excerpts) *Norsk Landbr.* 16:465-467. Dec.8,1950. 11 N8122

Chiefly on breeding.

29161 SOBEK, V. The health control of bulls used for insemination. (In Czech.) *Casopis Českoslov. Vet.* 5: 404-405. Sept.10,1950. 41.8 C27

29162 SPANGLER, R. E. For greatest profit feed out the bred-in inheritance. *Amer. Hereford J.* 41(18):44,46. Jan.15,1951. 43.8 Am32

29163 TARVER, D. Herefords for the long pull; what the breed can do for a family that stays with it. *Amer. Hereford J.* 41(19):58,60. Feb.1,1951. 43.8 Am32

29164 TURK, K. L. Relation of feeding to fertility in dairy cattle. *Dairyman's League News* 35(3):6-7. Feb.6, 1951. 44.8 D1432

29165 TYLER, W. J., and HYATT, G., JR. Calving. Intervals—how they affect production. *Hoard's Dairyman* 96:22-23. Jan.10,1951. 44.8 H65

29166 WALSH, F. E. Herd bull care and management. *Amer. Hereford J.* 41(18):96-97,109. Jan.15,1951. 43.8 Am32

29167 WILSON, J. M. The Galloway cattle breed. *Scot. Farmer* 59:334. Jan.13,1951. 10 Sc08

29168 WOLFF, F. E. Prepotency depends on breed inheritance. *Shorthorn News* 11(4):25-26. Dec.1950. 43.8 Sh85

Beef cattle.

29169 YULL, W. J. Development of Burton Jersey stud. *Austral. Farm & Home* 59(12):79-80,83. Dec.1, 1950. 23 Au7

#### Feeds and Feeding

29170 ADDISON, H. Beef production on pasture. *Purdue Agr.* 42(4):3. Jan.1951. 6 P97

29171 AMSCHLER, J. W. Bauer, was sagst du zur baby-beef-mast? *Pflug* 3:250-252. Dec.1950. 10 P48

29172 ALLEN, R. R. Winter feeding of dairy cows. *Worcestershire Agr. Chron.* 19:61,63,65. Nov.1950/Jan. 1951. 10 W892

29173 BEIER, A. A method for calculating the combinations of cattle feed. (In Hebrew.) *Hassadeh* 30: 705-706. Sept.1950. 26 H27

29174 BRISSON, G. J., and SUTTON, T. S. The nutrition of the newborn dairy calf. IV. The minimum riboflavin requirement. *J. Dairy Sci.* 34:28-36. Ref. Jan.1951. 44.8 J822

29175 BRUGGEMANN, H. Hohe milchleistungen mit wirtschaftselgenem futter. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1517-1518. Nov.2,1950. 18 L2346

29176 CLARK, M. Grass silage deluxe; Westfield, Wisconsin, dairymen get tips on canning grass. *Sealtest Dairyman* 5:9. Jan./Feb.1951. 44.8 Se1

29177 CULLITY, M., and BETTENAY, R. A. Cost of feeding pure bred dairy cows under the Australian Official Pure Bred Herd Recording Scheme in Western Australia, 1948-49. *West. Austral. Dept. Agr. J. (ser.2)* 27: 252-259. Sept.1950. 23 W52J

29178 DAVIS, G. K. Cattle need "extras" in winter; smart cattlemen feed animals supplements. *Fla. Grower* 59:16,20. Jan.1951. 80 F6622

29179 DIBBERN, H. Die molkerel beginnt im kuh-stall. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A: 1519. Nov.2,1950. 18 L2346

Chiefly on feeding.

29180 ESPRIELLA, J. R. DE LA. Nutzungsdauer der kühe und mineralsalze. *Deut. Landwirt. Presse* 73(23):4. Nov.4,1950. 18 D482

29181 FERRANDO, R. Aspects de l'alimentation de la vache laitière. *Lait* 30:612-622. Nov./Dec.1950. 44.8 L143

29182 FLUX, D. S. The effect of undernutrition before calving on the quantity and composition of milk produced by two-year-old heifers. *J. Agr. Sci. [London]* 40: 177-184. Ref. Jan./Apr.1950. 10 J822

29183 GARATTONI, E. Winter feeding of dairy cattle. (In Italian.) *Spezia Agr.* 5(12):2. Dec.1,1950. 16 Sp3

29184 GARCIA LLOSA, H., and ALBA, J. DE. Valor comparativo de las hojas de banano, puntas de caña de azúcar y pasto elefante para producción de leche. *Turrialba* 1:78-85. Ref. Oct.1950. 8 T88

English summary.

29185 GLASSCOCK, R. S., GUILFORD, H. E., and PEARSON, A. M. Urea shows good result at G'ville. *Fla. Cattleman* 15(4):49,51. Jan.1951. 43.8 F66

Cattle feeding tests.

29186 GROENEWALD, J. W., and others. Digestibility of lucerne hay with special reference to experimental technique in digestion trials. *Onderstepoort J. Vet. Sci. & Anim. Indus.* 24:67-85. Apr.1950. 41.8 On1

S. J. Myburgh, G. B. Laurence, and J. G. Louw, joint authors.

Tests with steers.

29187 HAYS, J. G. Fall and winter feeding of dairy cows. *Swift's Dairy & Poultry News* 5(4):1,2,5. Fall 1950. 49.9 Sw5

29188 HODGES, E. M., JONES, D. W., and KIRK, W. G. Irrigation not proven, but does produce added beef. *Fla. Cattleman* 15(4):20-21. Jan.1951. 43.8 F66

29189 HOMB, T. Can we produce quality meat on home grown feed? (In Norwegian.) (Sum.) *Norsk Landbr.* 16:461. Dec.8,1950. 11 N8122

Cattle.

29190 KITCHEN, J. B., JR., BENDER, C. B., and PAISLEY, E. H. Cows—hay burners or grain burners? *East. Feed Merchant* 2(2):18-19,48-49. Feb.1951. 389.78 Ea7

Milk production on types of feed.

29191 KNOBLICH, Ins Sauerland gehört die sauergrube! *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A: 1770-1771. Dec.21,1950. 18 L2346

Silage as cattle feed.

29192 KNOTT, C. B. Feeding milk replacements. *Hoard's Dairyman* 96:124. Feb.10,1951. 44.8 H65

29193 KNOPFF, Der wert und die bedeutung der milch bei der aufzucht der kälber. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1550. Nov.9,1950. 18 L2346

29194 MOLFENTER, W. Futter und milch—probleme der milchviehhaltung. *Landwirtbl. Weser-Ems* 97:1052-1054. Dec.14,1950. 18 L2345

29195 MORRISON, I. Grass silage for winter beef. *Farmer & Stock-Breeder* 65:186-187. Jan.16,1951. 10 F228

29196 NEUMANN, F. Richtige fütterung der hochtragenden kuh. Blatt für den Melker, p.2. In *Unser Milchvieh*. Ausg. B/C 2(11). Nov.1950. 43.8 Un72

29197 NEWELL, P. F. Winter feeding and management for beef cattle. *Livestock Wk.* 5(8):36-37. Dec.28, 1950. 49 L753

29198 NEWLANDER, J. A., JONES, C. H., and FOOTE, M. W. Barn-cured and field-cured hays as sources of vitamin D and carotene (vitamin A) for dairy cattle from birth to first freshening. *Vt. Agr. Expt. Sta. B.* 561,30 p. Ref. Dec.1950. 100 V59

29199 OLMSTEAD, B. Pointers on feeding dairy cattle this winter. *Columbia-Luzerne Farm & Home News* 2(2):4. Jan.1951. 6 C72

29200 PAWSON, H. C. Wintering store cattle; Cockle Park trial, 1949-50. *Gt. Brit. Min. Agr. Agriculture* 57: 469-473. Jan.1951. 10 G79J

Feeding.

29201 PICCIONI, M. Vitamin B<sub>12</sub> and animal protein factor in the nutrition of our cattle. (In Italian.) *Allevatore* 6(46):3. Nov.19,1950. 49 AL55

29202 POPE, L. S. Urea and rumen bacteria. (Abs.) *Feedstuffs* 23:12,64-65. Jan.6,1951. 286.81 F322

Urea in feeds for cattle and sheep.

29203 RADELEFF, R. D. Effects of various levels of lindane in the feed of beef cattle. *Vet. Med.* 46:105-106,119. Mar.1951. 41.8 M69

29204 REAVES, C. W. Feed the family cow right; you can increase your milk production. *Fla. Grower* 59(2):28, 31. Feb.1951. 80 F6622

29205 ROBERTS, V. M. Citrus pulp for dairy and beef cattle. *East. Feed Merchant* 2(2):16-17,60. Feb. 1951. 389.78 Ea7



- 29206 SAXENA, H. C. Improving village cattle. *Allahabad Farmer* 24:240-244. Nov.1950. 22 AL5  
Feeding and breeding.
- 29207 SCHUBERT. Neuzeltliche erkenntnisse in der milchviehfütterung. *Landwirtbl. Weser-Ems* 97:920-923. Nov.2,1950. 18 L2345
- 29208 SCHWARTZ, S. M. An extra 100 pounds of butterfat. *Hoard's Dairyman* 96:72-73. Jan.25,1951. 44.8 H65  
Feeding for improved production.
- 29209 SEATH, D. M. Ground hay in the dairy ration. *Feedstuffs* 23(4):36-37. Jan.27,1951. 286.81 F322
- 29210 SINGLETARY, C. B., MCCRAINE, S. E., and BERWICK, L. Dehydrated sweet potato meal for fattening steers. *La. Agr. Expt. Sta. B.* 446,7 p. Sept.1950. 100 L93
- 29211 SMITH, S. E., and others. Salt studies with dairy cattle. (Sum.) *Feedstuffs* 23(2):29-30. Jan.13, 1951. 286.81 F322  
P. D. Altnes, F. W. Lengemann, and K. L. Turk, joint authors.
- 29212 STEWART, W. L. Hill cattle in the North. *Gt. Brit. Min. Agr. Agriculture* 57:462-467. Jan.1951. 10 G79J  
Disease prevention with better feeding.
- 29213 TALLARICO, G. Green in the winter stall. (In Italian.) *Terra e Sole* 100:397-398. Dec.1950. 16 T273  
Importance of chlorophyll in feeding of cattle.
- 29214 THOME, K. E. Silage and milk quality. (In Swedish.) *Mjölklpropagandan* 27:160-164. June/July 1950. 44.8 M692
- 29215 TUCKER, H. Milchviehfütterung bei intensiver weidenutzung. *Grüne* 78:1275-1285. Nov.24,1950. 17 Sch9
- 29216 VAN CLEVE, R. Big gains on cheap feed. *Ill. Agr. Assoc. Rec.* 29:15. Jan.1951. 6 IL62
- 29217 WIESENDANGER, H. Die bedeutung des weidebetriebes für die tierzucht und tierhygiene. (Sum.) *Grüne* 78:1345-1350. Dec.8,1950. 17 Sch9
- 29218 ZAKHAR'EV, N. I. On feeding norms and on direction of scientific-research work in animal nutrition. (In Russian.) *Sovet. Zootekh.* 5(9):44-57. Ref. Sept.1950. 40 So822  
Experiments on cows.
- Veterinary Medicine
- 29219 ADLER, H. E., and MIGAKI, H. Cell types present in milk of cows in a chronic staphylococcal mastitis herd. *Vet. Med.* 46:89-92. Ref. Mar.1951. 41.8 M69
- 29220 ANDRES, J. Spezifische und nichtspezifische reaktionen, sowie unspezifische hautschwellungen bei der intrakutanen tuberkulinprobe des rindes. *Schweiz. Arch. f. Tierheilk.* 92:737-755. Dec.1950. 41.8 Sch9  
English summary.
- 29221 APICE, M. D', and PENHA, A. M. Control of bovine brucellosis by means of "Brucella 19" in adult animals. (In Portuguese.) *Soc. Paul. de Med. Vet. B.* 8:237-247. Ref. June 1950. 41.9 So13  
English summary.
- 29222 BAIER, W. Gedanken über die berichtigung der torsio uteri beim rind, besonders mit hilfe des Kalchschmidt'schen torsionshakens. *Tierärztl. Umschau* 6:12-14. Jan.1951. 41.8 T445
- 29223 BAILEY, J. W. About winter skin troubles. *Hoard's Dairyman* 96:9. Jan.10,1951. 44.8 H65
- 29224 BAILEY, J. W. That weak calf problem! *Guernsey Breeders' J.* [Peterborough] 81:317,348. Feb.7, 1951. 43.8 G93
- 29225 BAILEY, J. W. When cattle die suddenly. *Successful Farming* 49(2):158-160. Feb.1951. 6 Su12  
Caused by accidents, diseases, or poisons.
- 29226 BALLANTYNE, J. H. Ectopia cordis in a bovine. *Ontario Vet. Col. Rpt.* 1949:97-108. 1950. 41.9 On8R
- 29227 BARTLETT, D. E. What can be done about bovine venereal trichomoniasis. *Jersey B.* 70:162,182-186,194. Feb.10,1951. 43.8 J48
- 29228 BAUNY, P. Diagnostic de la gastrite traumatique des bovidés et gastrotomie. *Auxerre, Imprimerie "Yonne Républicaine"*, 1950. 54 p. Ref. 41.2 B329
- 29229 BAYOU, Y. Gestation gemellaire. Anomalie de l'utérus. *Acad. Vét. de France. B.* 23:491-492. Nov.1950. 41.9 R24  
In a cow.
- 29230 BELTRÁN MONFERRER, J. M. Zoonosis transmisibles a la especie humana: las mamitis de las hembras lecheras. III. *Cám. Ofic. Sind. Agr. de Barcelona. B.* 5:285-286. Nov.1950. 15 C14
- 29231 BENGTTSSON, N. G. Skravell sickness and balancing of the feed. (In Swedish.) *Lantmannen* 34:1015. Dec.30,1950. 11 L234  
Cattle.
- 29232 BISHOP, C. P. Revised program for the control and eradication of bovine brucellosis in Pennsylvania. *Vet. Med.* 46:47-51. Feb.1951. 41.8 M69
- 29233 BLAXTER, K. L. Iodinated protein and lactation. *Gt. Brit. Min. Agr. Agriculture* 57:413-417. Ref. Dec.1950. 10 G79J
- 29234 BLOSSER, T. H., NIEDERMEIER, R. P., and SMITH, V. R. Diurnal variations in calcium, magnesium and citric acid levels of the blood serum. *J. Dairy Sci.* 34:75-79. Ref. Jan.1951. 44.8 J822
- 29235 BOSTICCO, A. Contribution on the knowledge of composition and functional signification of the cervical mucous secretion in cows during oestrus. (In Italian.) *Zootec. e Vet.* 5:824-830. Oct.1950. 41.8 Z7  
English summary.
- 29236 BOUCHET, A. Foreign body in an ox pharynx. *M. S. C. Veterinarian* 11:70. Winter 1951. 41.8 M582
- 29237 BOUVIER, G. Control of bovine brucellosis in Switzerland. (In Portuguese.) *Soc. Paul. de Med. Vet. B.* 8:225-232. June 1950. 41.9 So13
- 29238 BOUVIER, G. Control of ectoparasites in bovine and ovine herds. (In Portuguese.) *Soc. Paul. de Med. Vet. B.* 8:217-223. June 1950. 41.9 So13  
Mange, ticks, myiasis, lice, etc.
- 29239 BRONISLAWSKI, S. Notes on two methods of cesarian section in the cow. (In Polish.) *Med. Weter.* 6:417-418. July 1950. 41.8 M463
- 29240 BRUNAUD, M., DUSSARDIER, M., and LABOUCHE, C. L'acétylcholine représente-t-elle le médiateur chimique du pneumogastrique des bovidés? *J. de Physiol.* 42:555-556. 1950. 44.7.8 J823
- 29241 CAFFE, P. Enfermedad del hongo radiado, la actinomicosis. *Hereford* 17:594-595. Dec.1950. 43.8 H42
- 29242 CALIFORNIA. STATE BRUCELLOSIS COMMITTEE. Complete report; minutes of meeting. *Calif. Dairyman* 30(26):17-19,22,24. Jan.27,1951. 44.8 C12
- 29243 CAMPBELL, I. L., HOLLARD, M. G., and FLUX, D. S. Thyroid weights of cattle. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 31(3):29-34. Ref. Oct. 1949. 514 N48A
- 29244 CARVALHO, G. S. T. DE, PEREIRA, P. C., and MAUGÉ, G. C. The use of sulapyridine in the treatment of infection by *Actinomyces* [i.e. *Spherophorus*] *necrophorus* [in cattle]. (In Portuguese.) *Soc. Paul. de Med. Vet. B.* 8:233-236. June 1950. 41.9 So13
- 29245 CHALKER, J. W. S. How the T. B. scheme will work. *Kent Farmers' J.* 68:214-215. Dec.1950. 10 K41  
The Tuberculosis Attested Herds Scheme, Great Britain.
- 29246 CHALUMEAU, P. "Bakkalé" et brucellose bovine au Sénégal et en Haute-Volta. *French West Africa. Insp. Gén. de l'Elevage. B. des Serv. de l'Elevage et des Indus. Anim.* 3:7-15. Jan./Mar.1950. 41.9 F88B  
Bakkalé is a disease of cows, characterized by chronic bursitis and synovitis.
- 29247 CHRISTIANSEN, M. J. Tuberkulose bei mensch und haustier mit bezug auf ihre wechselseitigen beziehungen. *Lebensmitteltierarzt* 1:165-170. (Cont.) Nov.1950. 41.8 L49  
Cattle.
- 29248 CLAUSEN, D. W. An unusual type of sterility in a bull. *Iowa State Col. Vet.* 13:35-36. 1951. 41.8 V6425  
Underdevelopment of penis.
- 29249 CONTI, V. Exterior de los bovinos y la apreciación del tipo lechero. *Holando Argentino* 8(86):46-47. (Cont.) May 1950. 43.8 H68  
Cronologia dentaria.
- 29250 COOPER, C. M. Antihistamines in dairy practice; clinical observations. *Jen-Sal J.* 1951:16-17. Jan.1951. 41.8 J45



- 29251 CROSSMAN, J. V., and others. The effect of bacterial infection on the milk yield of the individual quarters of the cow's udder. *J. Dairy Res.* 17:128-158. Ref. June 1950. 44.8 J823  
F. H. Dodd, J. M. Lee, and F. K. Neave, joint authors.
- 29252 CUNNINGHAM, I. J. Copper and molybdenum in relation to diseases of cattle and sheep in New Zealand. In Symposium on Copper Metabolism, Johns Hopkins University, 1950. Copper metabolism, p.246-273. Ref. Baltimore, Johns Hopkins Press, 1950. 386.2 Sy62 Includes discussion.
- 29253 DALLING, T. The eradication of bovine tuberculosis. *Brit. Farmer* 1950(30):11. Dec.31, 1950. 281.8 B77
- 29254 DAUGHERTY, W. D., and others. How I handle shipping fever in my practice. *Jen-Sal J.* 1951:4-8. Jan. 1951. 41.8 J45  
Forum: M. C. Stewart, J. W. Carey, J. D. Shoeman, and D. C. Wood, joint authors.  
Cattle.
- 29255 DAWSON, F. L. M. The microbial content and morphological character of the normal bovine uterus and oviduct. *J. Agr. Sci. [London]* 40:150-156. Ref. Jan./Apr. 1950. 10 J822
- 29256 DIXON, P. T. Cut the teat to save the quarter. *Farmer & Stock-Breeder* 65:329. Jan.30, 1951. 10 F228 Dairy cattle.
- 29257 DOBY, P. B. Instances of reproduction with uterus unicornis and uterus didelphys. *Vet. Med.* 46:60-61. Feb. 1951. 41.8 M69  
In cattle.
- 29258 EDWARDS, J. Factors influencing the relationship between the secretion of milk and butterfat. *J. Agr. Sci. [London]* 40:100-125. Ref. Jan./Apr. 1950. 10 J822
- 29259 EHRLICH, C. Was ist beim ankauf tuberkulosefreier rinder zu beachten? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107A:1691. Dec.7, 1950. 18 L2346
- 29260 ERDMANN, A. A. The blood test—why it may vary. *Hoard's Dairyman* 96:128. Feb.10, 1951. 44.8 H65  
Diagnosis of brucellosis in cattle.
- 29261 FACH, P. Verhütung von euterentzündungen bei kühlen. *Unser Milchvieh. Ausg. B/C* 2(12):1-2. Dec. 1950. 43.8 Un72
- 29262 FIGUEIREDO, J. B., and HIPOLITO, O. Bovine pasteurellosis in the State of Minas Gerais. (In Portuguese.) *Esc. Super. de Vet. do Estado de Minas Gerais. Arq.* 2:7-9. 1949. 41.9 M662  
English summary.  
Hemorrhagic septicemia.
- 29263 FINDLAY, J. D., GOODALL, A. M., and YANG, S. H. The number of sweat glands in the helix of the cow's ear and the milk yield. *J. Dairy Res.* 17:22-36. Ref. Feb. 1950. 44.8 J823
- 29264 FINDLAY, J. D., and YANG, S. H. The sweat glands of Ayrshire cattle. *J. Agr. Sci. [London]* 40:126-133. Ref. Jan./Apr. 1950. 10 J822
- 29265 FLINT, J. C., and JENSEN, R. Pathology of necrobacillosis of the bovine foot. *Amer. J. Vet. Res.* 12(42):5-13. Ref. Jan. 1951. 41.8 Am3A  
Foot rot due to *Actinomyces* (= *Spherophorus*) necrophorus.
- 29266 FLÜCKIGER, G. Zu den verhandlungen des Verbandes der Europäischen Landwirtschaft (CEA) über die bekämpfung der rindertuberkulose. *Schweiz. Arch. f. Tierheilk.* 92:755-767. Dec. 1950. 41.8 Sch9
- 29267 FOLEY, W. T. Must get rid of Bangs. *Farmer [St. Paul]*, Gen. Ed. 69(2):6, 22-23. Jan. 20, 1951. 6 F2211  
Minnesota program to control brucellosis in dairy cattle.
- 29268 FREEMAN, E. M. Fracture of the ilium. *Iowa State Col. Vet.* 13:38-39. 1951. 41.8 V6425  
Cow.
- 29269 FRENS, A. M. The physiology of milking. (In Dutch.) *Tijdschr. v. Diergeneesk.* 76:4-17. Ref. Jan. 1, 1951. 41.8 T431
- 29270 GALLINA, L. Rules and doses for the use of synthetic estrogens in cattle. (In Italian.) *Prog. Vet.* 5: 659-660. Dec. 1, 1950. 41.8 P942
- 29271 GERNEZ-RIEUX, C., and others. La réaction d'hémagglutination (réaction de Middlebrook-Dubos) dans la paratuberculose bovine (entérite chronique hypertrophique, maladie de Johne). *Acad. Vét. de France. B.* 23:465-468. Nov. 1950. 41.9 R24  
A. Tacquet, R. Gaumont, J. Verge, and L. Cauchy, joint authors.
- 29272 GOCHNAUER, T. A., and WILSON, J. B. Hyaluronidase production in vitro by streptococci isolated from bovine mastitis cases. *Amer. J. Vet. Res.* 12 (42):20-22. Jan. 1951. 41.8 Am3A
- 29273 GÖTZE, R. Paarungs- und besamungsinfektionen beim rind. *Deut. Tierärztl. Wchnschr.* 57:377-382. Dec. 1, 1950. 41.8 D482
- 29274 GRAF, H., and DELAK, M. Über die wirkungen von novaminsulfon und magnopryol auf den cholinergischen muskeltonus des pansen beim rinde. *Schweiz. Arch. f. Tierheilk.* 93:1-9. Ref. Jan. 1951. 41.8 Sch9  
English summary.
- 29275 GRATH, J. Fehlerhafte beinstellungen beim rindvieh. *Allgäuer Bauernbl.* 18:754-755. Dec. 21, 1950. 18 AL53
- 29276 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Stomach worms in cattle. *Gt. Brit. Min. Agr. & Fisheries. Anim. Health L.* 42, 3 p. Oct. 1950. 41.9 G792A
- 29277 GUERRET, M., and LEGEAY, G. Sur un cas clinique de rage paralytique chez un bovin. *French West Africa. Insp. Gén. de l'Elevage. B. des Serv. de l'Elevage et des Indus. Anim.* 3:43. Jan./Mar. 1950. 41.9 F88B
- 29278 GUILHON, J., and DARDILLAT, R. Image sanguine dans le syndrome hémorragique observé, dans la Creuse, chez les Bovidés. *Acad. Vét. de France. B.* 23:473-475. Nov. 1950. 41.9 R24
- 29279 HANCOCK, J. Studies in monozygotic cattle twins. II. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 31(2):1-41. Ref. Aug. 1949. 514 N48A
- 29280 HANSEL, W., and ASDELL, S. A. The effects of estrogen and progesterone on the arterial system of the uterus of the cow. *J. Dairy Sci.* 34:37-44. Jan. 1951. 44.8 J822
- 29281 HENDERSON, J. A., and MCKAY, K. A. The use of streptomycin in field outbreaks of acute calf scours. *Ontario Vet. Col. Rpt.* 1949:80-83. 1950. 41.9 On8R
- 29282 HESS, P. F. Untersuchungen über das chronische blutharnen des rindes. *Schweiz. Arch. f. Tierheilk.* 92:767-784; 93:46-59. Dec. 1950-Jan. 1951. 41.8 Sch9  
English summary.
- 29283 HEWETSON, R. W., and MULHEARN, C. R. Dehorning of cattle. *Queensland Agr. J.* 71:231-243. Oct. 1, 1950. 23 Q33
- 29284 HILL, R., WIDDOWSON, R. W., and MAGGS, B. E. Milking before calving. *Gt. Brit. Min. Agr. Agriculture* 57:351-358. Ref. Nov. 1950. 10 G79J
- 29285 HIPOLITO, O., and GIOVINE, N. On a case of brucellar orchitis in the zebu confirmed through the agglutination test. (In Portuguese.) *Esc. Super. de Vet. do Estado de Minas Gerais. Arq.* 2:11-15. Ref. 1949. 41.9 M662  
English summary.
- 29286 HIROSHI, T., and AKIRA, H. The receptivity of cervical mucus to spermatozoa in the cow. (In Japanese.) *Tokyo. U. Agr. & Textile Indus. Facul. Agr. B.* 1: 21-31. Ref. July 1950. 107.6 T578  
English summary.
- 29287 HODGES, H. G., BAKER, D., and ROBERTS, S. J. L'incidence de la mammite n'est pas en rapport avec le genre de trayeuse. *Québec Lait.* 9(12):46. Dec. 1950. 44.8 Q3
- 29288 HODGES, H. G. Management and sanitation pay off in mastitis control. *Amer. Agr.* 148:42-43. Jan. 20, 1951. 6 Am3  
Bovine mastitis.
- 29289 HOLMAN, S. Internal intestinal strangulation in a steer. *Iowa State Col. Vet.* 13:38. 1951. 41.8 V6425
- 29290 HUEBNER, R. J., and BELL, J. A. Q fever studies in southern California; summary of current results and a discussion of possible control measures. *Amer. Med. Assoc. J.* 145:301-305. Ref. Feb. 3, 1951. 44.8 Am37  
In cattle and man.
- 29291 HULPHERS, G. Measures by the dairy industry for the control of infectious diseases of dairy cattle. (In Swedish.) *Mjölpropagandan* 27:234-235. Sept. 1950. 44.8 M692
- 29292 ITAGAKI, K., and AKIBA, K. Studies on breeding diseases in the Japanese native cattle, especially bacteriological observations. (In Japanese.) *Tottori Soc. Agr. Sci. Trans.* 9:3-5. Dec. 1949. 513 T64
- 29293 KAEMMERER, K., and GRUNDLER, W. Studien über bau und funktion von scheide und cervix uteri. *Z. f. Tierzücht. u. Züchtbiol.* 58:410-415. Ref. July 1950. 44.8 Z35  
Cattle.



- 29294 KAEMMERER, K., and NEUMANN, H. G. Über reduzierende Substanzen im zervikalschleim des rindes. Z. f. Tierzücht. u. Züchtbiol. 58:416-421. Ref. July 1950. 442.8 Z35
- 29295 LANGLET, E. Control of foot and mouth disease in Mexico. (In Swedish.) Mjölkipropaganda 27: 206-207. Aug. 1950. 44.8 M692
- 29296 LANGLET, E. Danish vaccine in the fight against foot and mouth disease. (In Swedish.) Mjölkipropaganda 27:240-241. Sept. 1950. 44.8 M692
- 29297 LAWSON, J. R. Strain 19 and the control of brucellosis. Vet. Rec. 62:823-835. Ref. Dec. 30, 1950. 41.8 V641  
Includes discussion.  
Cattle.
- 29298 LENNETTE, E. H., and CLARK, W. H. Observations on the epidemiology of Q fever in northern California. Amer. Med. Assoc. J. 145:306-309. Feb. 3, 1951. 448.9 Am37  
In cattle and man.
- 29299 LEÓN, J. P. DE. "Enfermedad X" o hiperkeratosis del vacuno, en los EE. UU. Rev. de Med. Vet. [Montevideo] 4:934-936. Sept./Dec. 1949. 41.8 R327
- 29300 LUOTO, L., HUEBNER, R. J., and STOENNER, H. G. Q fever studies in southern California. XII. Aureomycin treatment of dairy cattle naturally infected with *Coxiella burnetii*. Pub. Health Rpt. 66:199-204. Ref. Feb. 16, 1951. 151.65 P96
- 29301 MCINTOSH, R. A. An enormous ovarian teratoma. Ontario Vet. Col. Rpt. 1949:128-130. 1950. 41.9 On8R  
In a heifer.
- 29302 MCKAY, K. A., and ROWSELL, H. C. The effect of the oral administration of streptomycin on the intestinal bacterial flora of newborn calves. Ontario Vet. Col. Rpt. 1949:83-93. Ref. 1950. 41.9 On8R
- 29303 MAGALHÃES, L. M. Determination of the alkaline reserve in blood of cattle. (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arq. 2:137-142. 1949. 41.9 M662  
English summary.
- 29304 MAGALHÃES, L. M. Determination of the normal number of platelets in the blood of cattle. (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arq. 2:133-135. 1949. 41.9 M662  
English summary.
- 29305 MAGALHÃES, L. M. Preliminary study of a disease, not identified as yet, in Minas Gerais: "chorona". (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arq. 2:67-81. Ref. 1949. 41.9 M662  
English summary.  
A disease of ruminants, especially cattle, characterized by emaciation, and possibly due to mineral deficiency.
- 29306 MANSON, T. B., and SCOLA, P. M. Attested herds; excellent work in the South-West. Scot. Agr. 30: 163-167. Winter 1950/51. 10 Sco82So  
Eradication of bovine tuberculosis in Scotland and Wales.
- 29307 MEGALE, F. Contribution to a study of congenital goiter in calves, in the State of Minas Gerais. (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arq. 2:143-150. Ref. 1949. 41.9 M662  
English summary.
- 29308 MEGALE, F. On the treatment of eimeriosis in calves with chloro-iodo-quinolinol (entero-vioform). (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arq. 2:29-32. 1949. 41.9 M662  
English summary.
- 29309 MORAIS, R. G., GIÓVINE, N., and FREITAS, M. G. Ringworm of cattle in Minas Gerais due to *Favotrichophyton album* (Sabouraud, 1905) Neveu-Lemaire, 1921. (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arq. 2:41-45. Ref. 1949. 41.9 M662  
English summary.
- 29310 MORALES, P. T. La ubre de la vaca lechera. Selec. Rur. 6:81-83. Oct./Dec. 1950. 9.9 Se4
- 29311 MULLEN, J. E. C. The acid phosphatase of mammary tissue of the cow and the rat. J. Dairy Res. 17:306-311. Ref. Oct. 1950. 44.8 J823
- 29312 NEAVE, F. K., DODD, F. H., and HENRIQUES, E. Udder infections in the 'dry period.' I. J. Dairy Res. 17:37-49. Ref. Feb. 1950. 44.8 J823
- 29313 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Tuberculosis (Attested Herds) Scheme. North. Ireland. Min. Agr. Mon. Rpt. 25:270-272. Jan. 1951. 256.13 Ag82M
- 29314 PALOTAY, J. L. Actinobacillosis in cattle. Vet. Med. 46:52-54. Feb. 1951. 41.8 M69
- 29315 PISTOR, W. J. Calf losses. Ariz. Agr. Col. Ext. C. 174,2 p. Nov. 1950. 275.29 Ar42
- 29316 PISTOR, W. J. Cowpox. Ariz. Agr. Col. Ext. C. 169,2 p. Nov. 1950. 275.29 Ar42  
Cattle.
- 29317 PISTOR, W. J. Foot rot in cattle. Ariz. Agr. Col. Ext. C. 175,1 p. Nov. 1950. 275.29 Ar42
- 29318 PISTOR, W. J. Impaction of the rumen. Ariz. Agr. Col. Ext. C. 170,2 p. Nov. 1950. 275.29 Ar42  
In cattle.
- 29319 PISTOR, W. J. Lump jaw in cattle (Actinomy-cosis). Ariz. Agr. Col. Ext. C. 177,6 p. Nov. 1950. 275.29 Ar42
- 29320 PISTOR, W. J. Mastitis (Garget). Ariz. Agr. Col. Ext. C. 176,6 p. Nov. 1950. 275.29 Ar42  
In dairy cattle.
- 29321 PISTOR, W. J. Milk fever. Ariz. Agr. Col. Ext. C. 167,2 p. Nov. 1950. 275.29 Ar42  
Milk fever of cattle.
- 29322 PISTOR, W. J. Retained placenta. Ariz. Agr. Col. Ext. C. 171,1 p. Nov. 1950. 275.29 Ar42  
In cattle.
- 29323 PISTOR, W. J. Warts on cattle. Ariz. Agr. Col. Ext. C. 172,2 p. Nov. 1950. 275.29 Ar42
- 29324 RANGEL, N. M., and WILWERTH, L. M. Histology of the prepuce in Bos indicus. (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arq. 2: 105-107. 1949. 41.9 M662  
English summary.
- 29325 REDA, H. The hematologic examination of normal blood of Egyptian buffaloes. Amer. J. Vet. Res. 12(42):23-25. Jan. 1951. 41.8 Am3A
- 29326 RIPLEY, W. A. The value of rumen inoculation in inappetence. Vet. Med. 46:75-76, Feb. 1951. 41.8 M69  
Restoration of normal rumen microorganisms.
- 29327 RITTER, H. Über verhütungsmassnahmen bei der Bangkrankheit des rindes. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1626. Nov. 23, 1950. 18 L2346
- 29328 ROF CODINA, J. Contribución al estudio de la producción láctea. Cult. Mod. 33:377-378, 413-414. (Concl.) Oct.-Nov. 1950. 15 C89  
Installments deal with lactation and the sanitary condition of milk.
- 29329 ROSERO S., C. Piroplasmosis bovina o fiebre de Texas. Manabí, Ecuador. Consorcio de Cent. Agr. B. 12(63):10-13. July/Sept. 1950. 9.5 M31
- 29330 ROTH, A. B. Dehorning, why and how. Home Farmer 17(12):12-13. Dec. 1950. 280.344 H75  
Cattle.
- 29331 RUEBKE, H. J. Bacterial flora of the bovine male genitalia. Amer. J. Vet. Res. 12(42):14-19. Ref. Jan. 1951. 41.8 Am3A
- 29332 RUIZ MARTINEZ, C. Mastitis de la vaca. Indus. Lech. 32:531-532, 534-538, 540-543, 581-586, 588-591, 596-599. (Concl.) Oct.-Nov. 1950. 44.8 In26
- 29333 SALA, G. Rabies in cattle; clinical, histological and biological observations. (In Italian.) Clin. Vet. 73:348-352. Ref. Nov. 1950. 41.8 C61
- 29334 SCHOFIELD, F. W., and SMITH, D. L. T. Cyanide poisoning in cattle. Ontario Vet. Col. Rpt. 1949: 120-122. 1950. 41.9 On8R
- 29335 SEELEMANN, M. Milchqualität, milchkonsum und milchwerbung. Unser Milchvieh. Ausg. B/C 2(12):3-4. Dec. 1950. 43.8 Un72  
Chiefly on control of diseases.
- 29336 SEREN, E. Report on the activities at the Stupinigi clinic for cattle diseases during the academic year 1949-50. (In Italian.) Prog. Vet. 5:647-651. Dec. 1, 1950. 41.8 P942
- 29337 SIKKA, L. C. A study of lactation as affected by heredity and environment. J. Dairy Res. 17:231-252. Ref. Oct. 1950. 44.8 J823
- 29338 SILVA GOYTIA, R. Fiebre Q en México. I-II. Medicina; Rev. Mex. 30:453-455, 493-497. Ref. Nov. 10, Dec. 10, 1950. 44.8 M4693  
English summaries.  
Serological surveys of cows in the State of Mexico, and of humans in Coahuila and Durango.
- 29339 SINCOCK, R. L. No Bangers allowed. Wash. Farmer 76:69, 84. Feb. 1, 1951. 6 R121  
Eradication of brucellosis in cattle.
- 29340 SMITH, J. A. B. Reviews of the progress of dairy science. Section A. Physiology of dairy cattle. I. Reproduction and lactation. J. Dairy Res. 17:338-366. Ref. Oct. 1950. 44.8 J823



29341 SNOOK, L. C. How to identify identical twins [calves] and why these are valuable in research. *Farmer & Dairyman* 43(526):5. Nov.1950. 23 F225

29342 STEELE, J. H. Bovine tuberculosis in the United States. *CDC Bulletin* 10:11-12. Jan.1951. 151.65 C12

29343 TIBITANZL, J. Die rindertuberkulose; ihre volkswirtschaftliche und tierzüchterische bedeutung, die massnahmen zur verhütung und bekämpfung. *Landwirtschaft* 1950:359-360. (To be cont.) Dec.1950. 19 L235

29344 TIBITANZL, J. Tuberkulosefreie rinderbestände; die rindertuberkulosebekämpfung in Niederösterreich. *Osterr. Bauernbündler* 7(3):6;(4):6. Jan.20-27,1951. 19 Os7

29345 TILLMANN, H. Über blutige eingriffe an der zitze des rindes. *Monatsh. f. Vetmed.* 5:325-330. Ref. Dec.1950. 41.8 M742

29346 TOOP, C. R. Footrot (foul foot) of dairy cattle. *West. Austral. Dep't. Agr. J.* (ser.2)27:273-274. Sept.1950. 23 W52J

29347 VALADAO, F. G. General observations on the chief epizootic diseases attacking cattle in the Colony of Mozambique. (In Portuguese.) *Gaz. do Agr.* 2:212-213. Sept.1950. 24 G25

This installment deals with rickettsial diseases transmitted by *Amblyomma hebraeum*.

29348 VENZKE, W. G. Hormone therapy in bovine reproduction problems. *M. S. C. Veterinarian* 11:79-84. Ref. Winter 1951. 41.8 M582

29349 VICARD, A. Les laparotomies chez les bovins. *Paris, Vigot*, 1950. 56 p. 41 V663

29350 WAGENAAR, G. Clinical investigation in T.B. control. (In Dutch.) *Tijdschr. v. Diergeneesk.* 75:900-910. Nov.1950. 41.8 T431

Cattle.  
29351 WARD, G. W. Red water, a disease of calves. *Westralian Farmers' Co-op. Gaz.* 19:295-296. Nov.1950. 280.28 W522

Leptospirosis.  
29352 WATTS, P. S. Mastitis in Ayrshire from 1938 to 1950. *Vet. Rec.* 63:3<sup>2</sup> 39. Ref. Jan.20,1951. 41.8 V641

Cattle.  
29353 WAUGH, D. F., and LIVINGSTONE, B. J. Clotting time and reaction velocity in the interaction of bovine fibrinogen and thrombin. *Science* 113:121-124. Feb.2,1951. 470 Sci2

29354 WELBORN, J. C. Mastitis is a milk robber. *Prog. Farmer, Tex. Ed.* 66(2):50,53. Feb.1951. 6 T311

29355 WESTPHAL, W. Ein in der entwicklung stehengebliebener einzelwilling bei einem kalb. *Z. f. Tierzücht. u. Züchtbiol.* 58:451-454. July 1950. 442.8 Z35

29356 WHITE, E. A. Bacitracin in a para-abdominal abscess. *M. S. C. Veterinarian* 11:70-71. Winter 1951. 41.8 M582

Cow.  
29357 WILWERTH, A. M. Contribution to a knowledge of the normal elements of bovine urine. (In Portuguese.) *Esc. Super. de Vet. do Estado de Minas Gerais. Arq.* 2: 83-85. 1949. 41.9 M662

English summary.  
29358 WILWERTH, A. M. Determination of the glucose level in the blood of cattle. (In Portuguese.) *Esc. Super. de Vet. do Estado de Minas Gerais. Arq.* 2:155-156. 1949. 41.9 M662

English summary.  
29359 WOELFFER, E. A. Preventing scours in calves. *Hoard's Dairyman* 96:67,88. Jan.25,1951. 44.8 H65

29360 WRIGHT, J. G. Observations on the incidence of and surgical treatment of umbilical hernia in the bovine. *Vet. Rec.* 63:4-7. Jan.6,1951. 41.8 V641

29361 WYLIE, I. Attested herds of the Welsh pioneers. *Farmer & Stock-Breeder* 3194:102-103. Jan.9, 1951. 10 F228

Tuberculosis eradication in dairy cattle.  
29362 YOUNG, F. W. A duodenal fistula in the bovine animal for experimental investigation. *Amer. Vet. Med. Assoc. J.* 118:98-100. Feb.1951. 41.8 Am3

29363 ZELTER, Z. Participation des acides acétique et butyrique à la lipogénèse chez la vache laitière. *Acad. des Sci. Compt. Rend.* 231:1574-1576. Dec.18,1950. 505 P21

# Miscellaneous

29364 ÅBJÖRNSSON, B. Reflections on milking sanitation. (In Swedish.) *Mjölkipropagandan* 27:259-260. Oct. 1950. 44.8 M692

29365 AHARONOVITCH, J. Do we need special beef cattle? (In Hebrew.) *Hassadeh* 30:701-703. Sept. 1950. 26 H27

29366 BECK, G. H., FRYER, H. C., and ROARK, D. B. Use and interpretation of milk flow curves in measuring variations in the response of cows to machine milking. *J. Dairy Sci.* 34:58-67. Ref. Jan.1951. 44.8 J822

29367 BINDER. Forderung der milchleistungsprüfungen durch die öffentliche hand. *Kontrollangestellte*, p.1. In *Unser Milchvieh*. *Ausg. B/C* 2(11), Nov.1950. 43.8 Un72

29368 BUIATTI, P. G. The Prato show and the direction of cattle raising. (In Italian.) *Agr. Tosc.* 5:438-440. Dec.1950. 16 Ag827

29369 BURNS, J. C. Como los jurados norteamericanos ven a un campeon; la importancia del tamaño del animal. *Hereford* 17:603. Dec.1950. 43.8 H42

29370 CASTLE, M. E., FOOT, A. S., and HALLEY, R. J. Some observations on the behaviour of dairy cattle with particular reference to grazing. *J. Dairy Res.* 17: 215-229. Ref. Oct.1950. 44.8 J823

Appendix: A description of the construction and use of portable infra-red ray equipment for animal observation in the field, by H. Burton and M. E. Castle, p. 229-230.

29371 DODD, F. H., and others. Experiments on milking technique. 7. *J. Dairy Res.* 17:107-116. June 1950. 44.8 J823

A. S. Foot, E. Henriques, and F. K. Neave, joint authors.

29372 DÖRING, H. Über die fehler, die bei milchleistungsprüfungen auftreten. *Z. f. Tierzücht. u. Züchtbiol.* 58:389-409. Ref. July 1950. 442.8 Z35

29373 FAVERA, R. DALLA. Imported dairy cattle must be conditioned to the environment and acclimated. (In Italian.) *Terra e Sole* 100:411-412. Dec.1950. 16 T273

Italy.  
29374 FISHER, S. A comparison of British and Danish dairy farming. *Gt. Brit. Min. Agr. Agriculture* 57:477-480. Jan.1951. 10 G79J

29375 GALLETI, A. C. The stable. (In Italian.) *Terra [Firenze]* 61(50):2. Dec.10,1950. 16 T274

Cattle care.  
29376 GOODELL, C. J. Beef cattle and cotton; efficiency of livestock for profitable forage and pasture utilization is as important to maximum farm income as is the selection of certified seed cotton. *Breeder-Stockman* 12(9):9-11. Feb.1951. 49 V81

Southern States.  
29377 GUIMARÃES, M. M. Fat steer shows of 1950 disclose the superiority of beef cattle from the [Brazilian] Northwest over those of the Rio Grande Valley. (In Portuguese.) *Rev. dos Criadores* 21(10):4-7. Oct. 1950. 43.8 R32

29378 HANSEN, E. N. If cows could talk. *Hoard's Dairyman* 96:12. Jan.10,1951. 44.8 H65

Care.  
29379 HENDERSON, B. W., JR. Wood chips as a bedding material for dairy cows. *Noeast. Wood Util. Council. B.* 33:95-96. Jan.1951. 99.9 N819

29380 HERMAN, H. A. Calf raising methods that bring success. *Guernsey Breeders' J. [Peterborough]* 81: 318-320. Feb.7,1951. 43.8 G93

29381 HIMEBAUGH, K., and MCCLAREN, J. K. Bulls to make more beef with less feed. *Country Gent.* 121(2):22,77-78. Feb.1951. 6 C833

Feed-gain tests in the selection of young bulls.  
29382 IAKIMENKO, V. I. Effect of ecological conditions on fat content of milk of dairy cattle. (In Russian.) *Sovet. Zootekh.* 5(10):23-28. Oct.1950. 49 So822

29383 IMBAULT, L. La vache. *Rev. Agr. de la Nouvelle-Calédonie (n.s.)* 1(9/10):12-13. Sept./Oct.1950. 25 R322

Care.  
29384 JANNIN, G. La vache laitière de rapport; description, races, choix, sélection, alimentation, hygiène, accidents, maladies, remèdes. *Rev. et mis à jour*. Paris, Hachette, 1950. 192 p. (Encyclopédie des Connaissances Agricoles) 44 J262

29385 JOHANSSON, I. Maximum yield of cows. (In Swedish.) *Mjölkipropagandan* 27:126-127. May 1950. 44.8 M692

In Denmark.



- 29386 KVAISHNE, I. Remarks on Aharonovitch's criticism. (In Hebrew.) Hassadeh 30:703-704. Sept. 1950. 26 H27  
Beef cattle.
- 29387 MCCOMAS, E. W. Beef production on the farm. U. S. D. A. Farmers' B. 1592, slightly rev., 14 p. Sept. 1950. 1 Ag84F
- 29388 MCELROY, L. W. Care and feed for economy and profit. Shorthorn News 11(4):17-18. Dec. 1950. 43.8 Sh85  
Beef cattle.
- 29389 MANES, A. The dairyherd before winter. (In Hebrew.) Hassadeh 31:106-108. Nov./Dec. 1950. 26 H27
- 29390 MARTIMO, E. What can a cowhand do? (In Swedish.) Mjölpropagandan 27:138-139. May 1950. 44.8 M692  
Milk production.
- 29391 MELLENCAMP, B. C. Testing proves their worth. Mich. Farmer 215:85, 112-113. Feb. 3, 1951. 6 M58  
Dairy cattle.
- 29392 MERCER, E. M. Coyote control. Ariz. Cattle-log 6(2):10-11. Oct. 1950. 43.8 Ar42
- 29393 MILLER, L. A. El valor de una buena cabeza. Hereford 17:6C4. Dec. 1950. 43.8 H42  
Cattle judging.
- 29394 O'BRIEN, H. R. Calves are getting better care. Country Gent. 121(2):31, 78-81. Feb. 1951. 6 C833
- 29395 OUELLET, A. Encore le registre de troupeau. Digeste de l'Elevage 5(4):13-15. Dec. 1950. 49 D56  
Cattle.
- 29396 PAGOT, J. R. Sur la normalisation des observations zootechniques dans l'étude de la morphologie et des productions des bovins. French West Africa. Insp. Gén. de l'Elevage. B. des Serv. de l'Elevage et des Indus. Anim. 3:65-76. Jan./Mar. 1950. 41.9 F88B
- 29397 PATRA, M. K. Cattle shows in Orissa. Indian Farming 11:128-130. Mar. 1950. 22 In283
- 29398 PAUL, R. A. Better Dairying Competition, 1949-50. West. Austral. Dept. Agr. J. (ser. 2) 27:275-301. Sept. 1950. 23 W52J
- 29399 PERVAK, I. A. I. Brown Carpathian cattle [of the Transcarpathian Region in Ukrainian SSR]. (In Russian.) Sotsialist. Zhivotnovod. 12(8):67-71. Aug. 1950. 49 So71  
Milk production chiefly.
- 29400 PÖHLER, Saubere kühe im praktischen stall. Unser Milchvieh. Ausg. A 2(11):6. In Molk.-Ztg. 4(44). Nov. 2, 1950. 44.8 M735
- 29401 POST, J. J. The relation between the weather and milk supply. II. (In Dutch.) Friesch Landtbl. 47: 489. Aug. 11, 1950. 12 F91
- 29402 POZO PELAYO, C. DEL. El ganado vacuno lechero en la Feria del Campo. II. Ganadería [Madrid] 8: 561-564. Sept. 1950. 49 G15
- 29403 PULVER, W. Wood chips as bedding. Noeast. Wood Util. Council. B. 33:97-100. Jan. 1951. 99.9 N819  
Includes discussion.
- 29404 REEDER, N. How to win friends with cows. Hoard's Dairyman 96:132-133. Feb. 10, 1951. 44.8 H65
- 29405 RUSSELL, J. F. American farming and dairying; impressions of a visitor from Scotland. 2-3. Scot. Farmer 58:1570, 1591. Dec. 23-30, 1950. 10 Sco8  
Pt. 3 is chiefly about Canada.
- 29406 SACCO, P. Choice herds of cattle in the muster in Aosta valley. (In Italian.) Allevatore 6(46):7. Nov. 19, 1950. 49 AL55
- 29407 SEMENTOVSKAIA, N. M., and GARKAVI, O. V. Effect of low temperature on productivity [milk production, fat content in milk and live weight] of cows. (In Russian.) Sovet. Zootekh. 5(9):30-43. Sept. 1950. 49 So822
- 29408 SESTI, G. Notes on the XI Market-Show of Garfagnina breed bulls and bullocks. (In Italian.) Agr. Tosc. 5:447-449. Dec. 1950. 16 Ag827
- 29409 SHEEHY, E. J. The production of milk in this country. Agr. Ireland 8:5, 7, 9. Jan. 1951. 10.5 Ag8
- 29410 SHTEIMAN, S. I., and others. Raising calves in unheated quarters (Practices of Karavaevo State Farm). (In Russian.) Sovet. Zootekh. 5(10):62-77. Oct. 1950. 49 So822  
M. N. Vetchinkin, A. V. Kuz'michev, A. A. Kudriavtsev, V. A. Alikae, and N. F. Rostovtsev, joint authors.
- 29411 SPEZIALI, F. Raise the calf well. (In Italian.) Campagna 49:217-220. Dec. 1, 1950. 16 C152
- 29412 SQUINTANI, V. Increase of milk production and quality of milk for industrial use. (In Italian.) Latte 24:413-414. Dec. 1950. 44.8 L35  
Cattle care.
- 29413 SVENSSON, K. B. Machine milking problems. (In Swedish.) Mjölpropagandan 27:145-147. May 1950. 44.8 M692
- 29414 SYLVESTRE, P. E. Progeny testing of beef cattle on the Dominion experimental farms. Shorthorn News 11(4):36. Dec. 1950. 43.8 Sh85
- 29415 SYMON, J. A. Holland and its cattle. Scot. Agr. 30:173-176. Winter 1950/51. 10 Sco82So
- 29416 TRAPPMANN. Täglich zweimal oder dreimal melken? Landwirts. Wchnbl. f. Westfalen u. Lippe 107 A: 1483. Oct. 26, 1950. 18 L2346
- 29417 VAITSMAN, J. Directions for the production of milk of good quality. (In Portuguese.) Lav. Arroz. 4(46):21-22. Oct. 1950. 59.8 L39
- 29418 VAN WYK, H. P. D. Beef production in the grain-producing areas. Farming So. Africa 25:345-348. Nov. 1950. 24 So842
- 29419 WARD, W. B. This farmer finds a way to meet the dairy price squeeze with a planned feeding, breeding, and management program aimed at boosting production. Successful Farming 49(2):130, 132. Feb. 1951. 6 Su12
- 29420 WHY CLASSIFY? Brown Swiss B. 29(8):11-12, 66. Feb. 1951. 43.8 B81
- 29421 YATES, B. Are you murdering your calves? Ala. Farmer 30(2, i.e. 3):4, 13. Dec. 1950. 276.8 AL1
- 29422 ZHELEZNIK, P. G. Conference of the Zootechnical Council on increasing the fat content in milk of cows. (In Russian.) Sotsialist. Zhivotnovod. 12(8):90-92. Aug. 1950. 49 So71

## DOGS AND CATS

## Breeds and Breeding

- 29423 AUSTRALIAN AND NEW ZEALAND GREYHOUND ASSOCIATION. The Australian Greyhound stud-book, v. 9. Melbourne, 1950. 741 p. 48.9 Au7
- 29424 CHANDLER, D. J. C. The health of your Siamese. III. Bird World 7:477-478. Oct. 1950. 413.8 B533
- 29425 CHANDLER, D. J. C. Siamese on show. Bird World 7:524-525. Nov. 1950. 413.8 B533
- 29426 CHANDLER, D. J. C. Training your Siamese kittens. Bird World 7:572-573. Dec. 1950. 413.8 B533
- 29427 CRIPPA, G. Le Schnauzer en Italie. Chiens et Vénérerie (Sup.) (n.s.) 8:14-15. Sept./Oct. 1950. 48.8 C43
- 29428 CUTLER, C. J. The Spaniel. 2. New Zeal. Dog World 5(10):4-5. Nov. 1950. 48.8 N48
- 29429 DONMALL, B. Breeding Siamese. Bird World 7:479-480. Oct. 1950. 413.8 B533
- 29430 DUBUIS, E. M. Science and your Cocker; the black and tan pattern. II. How is it inherited? Wagging Tail 5(7):7-9. Dec. 1950. 48.8 W12
- 29431 FIORAVANTE, C. The German Shepherd dog. (In Portuguese.) Fauna [São Paulo] 9(10):3-4. Oct. 1950. 410 F272
- 29432 JUDE, A. C. Some notes on new colour breeding. Fur & Feather 114:43-44. Jan. 18, 1951. 49 F96  
Cat genetics.
- 29433 KING, B. The morale of the dog game. Cocker Spaniel Visitor 12(12):9-12. Dec. 1950. 48.8 C64  
Cocker Spaniel clubs.
- 29434 OTTE, F., JR. Cocker behavior training. Cocker Spaniel Visitor 12(12):12-13. Dec. 1950. 48.8 C64
- 29435 PUGH, R. B. DE. Genética. Mundo Canino 4 (37):6, 15. (Cont.) Sept. 1950. 48.8 M92
- 29436 ROGERS, A. L. Poodles in particular; history, care and management of the standard, miniature and toy varieties for home and show ring. New York, Orange Judd, 1951. 263 p. 48 B632
- 29437 SMITH, C. E. That dual purpose dog. Fur-Fish-Game 46:32-33. Jan. 1951. 410 F962  
Selection.
- 29438 SULZBERGER, J. J. L. Speedsters of the race track. New Zeal. Dog World 5(8):5-6. Sept. 1950. 48.8 N48  
Greyhounds.

## Feeds and Feeding

- 29439 CHANDLER, D. J. C. Feeding the Siamese cat. 2. Bird World 7:380-381. Aug. 1950. 413.8 B533



- 29440 JANOWITZ, H. D., and GROSSMAN, M. I. Effect of prefeeding, alcohol and bitters on food intake of dogs. *Amer. J. Physiol.* 164:182-186. Ref. Jan.1,1951. 447.8 Am3
- 29441 PROCTOR, G. D. Report on amino reinforcement. *Gaines Dog Res. Prog.* 1950:6-7. Fall 1950. 48.9 D67

### Veterinary Medicine

- 29442 ARCHIBALD, J. Case reports from the Small Animal Clinic. *Ontario Vet. Col. Rpt.* 1949:93-97. 1950. 41.9 On8R
- Surgical correction of intussusception; removal of cystic calculi. Dogs.
- 29443 ARMISTEAD, W. W. Cat patients and client psychology. *No. Amer. Vet.* 32:106-108. Feb.1951. 41.8 N812
- 29444 BELL, J. Q. Intestinal strangulation in a Dachshund. *Iowa State Col. Vet.* 13:37. 1951. 41.8 V6425
- 29445 BIDDIS, J. K. A new taeniocide for dogs. *Vet. Rec.* 62:841. Dec.30,1950. 41.8 V641
- Dicestal (2,2'-dihydroxy-5,5'-dichlorodiphenylmethane).
- 29446 BLANEY, A. J. Surgical repair of a bilateral luxation of the patellae in a dog. *No. Amer. Vet.* 32:101-105. Feb.1951. 41.8 N812
- 29447 BURNS, C. C. Surgical technique for correcting ear trims. *Amer. Vet. Med. Assoc. J.* 118:93-95. Feb.1951. 41.8 Am3
- Dogs.
- 29448 CANET, J., and JAHAN, P. Essais de traitement de la filarose canine en Indochine par le 1-diéthyl carbamyl 4-méthylpipérazine. *Soc. de Path. Exot. B.* 43:470-482. Ref. 1950. 448.9 So13
- 29449 CENA, M. Measurements of cat's skin temperature with thermoelements [i.e. thermocouples]. (In Polish.) *Med. Weter.* 6:419-424. Ref. July 1950. 41.8 M463
- English summary.
- 29450 CHWOJNOWSKI, A. Perlacar-Drwalew a cure for some skin affections of dogs. (In Polish.) *Med. Weter.* 6:413-417. July 1950. 41.8 M463
- English summary.
- Useful in demodectic mange, otitis externa and eczema.
- 29451 CIZEK, L. J., and others. Effect of extracellular electrolyte depletion on water intake in dogs. *Amer. J. Physiol.* 164:415-422. Ref. Feb.1,1951. 447.8 Am3
- R. E. Semple, K. C. Huang, and M. I. Gregersen, joint authors.
- 29452 DEVAKULA, S. Report on 2 cases of neuroparalysis in dogs after antirabic vaccination. *Vet. Assoc. Thailand. J.* 2:71-76. Oct.1950. 41.9 S112
- 29453 DIETRICH, W. Das staube-problem. *Tierärztl. Umschau* 5:362-366. Ref. Oct.1950. 41.8 T445
- 29454 EADS, F. E. Symposium on canine distemper. *M. S. C. Veterinarian* 11:72--77. Ref. Winter 1951. 41.8 M582
- 29455 FACQ, L. L'emphysème pulmonaire chronique du chien et les états associés. Essais de traitement par la novocaïne intraveineuse. *Paris,Foulon*, 1950. 64 p. Ref. 41.2 F11
- 29456 FANKHAUSER, R. Zwei neue fälle von toxoplasmose beim hund. *Schweiz. Arch. f. Tierheilk.* 93:12-22. Ref. Jan.1951. 41.8 Sch9
- English summary.
- 29457 GIER, H. T. Early embryology of the dog. (Abs.) *Anat. Rec.* 108:561-562. Nov.1950. 447.8 An1
- 29458 GILLESPIE, R. L. A canine dental abscess. *Iowa State Col. Vet.* 13:36-37. 1951. 41.8 V6425
- 29459 GOODMAN, D. C. A persistent left superior vena cava and anomalous anastomosing mediastinal vein in a domestic cat. *Anat. Rec.* 108:415-420. Nov.1950. 447.8 An1
- 29460 GORHAM, J. R., and GARNER, F. M. The incidence of Salmonella infections in dogs and cats in a nonurban area. *Amer. J. Vet. Res.* 12(42):35-37. Ref. Jan.1951. 41.8 Am3A
- 29461 HAAS, K. B., and MILAKNIS, A. Metallic fixation of the patella. *Amer. Vet. Med. Assoc. J.* 11:90-93. Feb.1951. 41.8 Am3
- In a dog.
- 29462 HIPOLITO, O., and ROSAS, E. B. On a case of streptococcal infection in a dog. (In Portuguese.) *Esc. Super. de Vet. do Estado de Minas Gerais. Arq.* 2:63-65. 1949. 41.9 M662
- 29463 HOLMES, J. H., and CIZEK, L. J. Observations on sodium chloride depletion in the dog. *Amer. J. Physiol.* 164:407-414. Ref. Feb.1,1951. 447.8 Am3
- 29464 HUME, C. W. Electrocution of unwanted dogs and cats. *Vet. Rec.* 62:811-812. Dec.23,1950. 41.8 V641
- 29465 JACOBSON, D. Ethylene glycol (prestone) poisoning in a dog. *Vet. Med.* 46:116-119. Mar.1951. 41.8 V69
- 29466 JONES, L. M. The toxic and analgesic effects of procaine hydrochloride administered intravenously in the dog. *Vet. Med.* 46:93-97. Mar.1951. 41.8 M69
- 29467 KELLY, E. Distemper. Cocker Spaniel Visitor 12(12):7-9. (To be cont.) Dec.1950. 48.8 C64
- 29468 KIRK, H. Persistent buccal warts. *Vet. Rec.* 63:8. Jan.6,1951. 41.8 V641
- Case in dog treated with injection of podophyllin in oil.
- 29469 KÜST, D., and RIECK, G. W. Das polamidon als analgetikum bei geburtshilflichen und gynäkologischen operationen beim hund. *Tierärztl. Umschau* 6:19-21. Jan.1951. 41.8 T445
- 29470 LATIGO, A. Maladies du chien. *Paris,Bornemann*, 1950. 71 p. 41 L34
- 29471 LATIMER, H. B. The weights of the kidneys and the bladder in the fetal and newborn dog. (Abs.) *Anat. Rec.* 108:584. Nov.1950. 447.8 An1
- 29472 MCCAY, C. M. Disease problems in a dog nutrition laboratory. *Iowa State Col. Vet.* 13:21-25. 1951. 41.8 V6425
- 29473 MCGAUGHEY, C. A. Preliminary note on the treatment of spirocercosis in dogs with a piperazine compound, caricide (Lederle). *Vet. Rec.* 62:814-815. Dec.23,1950. 41.8 V641
- 29474 MCGOVERN, V. J., and others. Canine encephalitis causing a syndrome characterized by tremor. *Austral. J. Expt. Biol. & Med. Sci.* 28:433-447. July 1950. 442.8 Au7
- J. D. Steel, B. D. Wyke, and M. E. Dodson, joint authors.
- 29475 MATERA, E. A. Contribution to the study of the laparotomy in the dog. Surgical technique and post-operative complications. Relaparotomy. (In Portuguese.) *Soc. Paul. de Med. Vet. B.* 8:195-211. June 1950. 41.9 So13
- English summary.
- 29476 MATERA, E. A., STOPIGLIA, A. V., and ANNUNZIATA, M. Foetus in the abdominal cavity in a bitch. (In Portuguese.) *Soc. Paul. de Med. Vet. B.* 8:213-215. June 1950. 41.9 So13
- 29477 MEYER, K. F., and BRUNNER, K. T. Chemotherapy and immunity in *Leptospira canicola* and *L. icterohaemorrhagiae* infections. *Acta Trop.* 7:1-18. Ref. 1950. 475 Ac8
- In dogs and man.
- 29478 MOULDER, J. W., and WEISS, E. Purification and properties of the agent of feline pneumonitis. *J. Infect. Dis.* 88:56-67. Ref. Jan./Feb.1951. 448.8 J821
- 29479 MOULDER, J. W., and WEISS, E. Respiratory metabolism of the extra-embryonic membranes of chick embryos in relation to multiplication of the agent of feline pneumonitis. *J. Infect. Dis.* 88:68-76. Ref. Jan./Feb.1951. 448.8 J821
- 29480 PERKINS, D. H. Cystic calculi in a Spitz. *Iowa State Col. Vet.* 13:37-38. 1951. 41.8 V6425
- Surgical removal.
- 29481 PHILLIPS, L. R., and BURKHARDT, B. S. Medical and surgical oxygen in small animal practice. *Vet. Med.* 46:41-46. Ref. Feb.1951. 41.8 M69
- Dogs.
- 29482 RICHOU, L. Étude sur les teignes des carnivores. *Saint-Gaudens,Vanin*, 1950. 141 p. Ref. 41.2 R412
- Ringworm of dogs and cats.
- 29483 RICKETTS, V. L. Home nursing versus the hospital. *All-Pets Mag.* 21(12):40-41,44-45. Dec.1950. 48.8 AL5
- Dogs.
- 29484 ROMANUCCI, D. Placentation in the dog. (Abs.) *Anat. Rec.* 108:562. Nov.1950. 447.8 An1
- 29485 RUMNEY, W. J., and SCHOFIELD, F. W. Pulmonary hypertrophic osteo-arthritis (Marie's disease). *Ontario Vet. Col. Rpt.* 1949:122-127. 1950. 41.9 On8R
- In a dog.
- 29486 SCHNAAS, G. Consideraciones sobre la histeria canina en México. *D. F. Mundo Canino* 4(37):8-9, 15-16. Sept.1950. 48.8 M92



- 29487 SENZE, A. A case of tetanus in a bitch in consequence of pruritus gravidarum. (In Polish.) Med. Weter. 6:417. July 1950. 41.8 M463
- 29488 SKINNER, H. L., CONN, J. K., and OESTERLE, J. F. Experimental study on the use of homonymous transplants of esophagus in dogs. Pub. Health Rpt. 66:29-37. Ref. Jan.21,1951. 151.65 P96
- 29489 SMITH, D. L. T. Observations on infectious canine hepatitis. Amer. J. Vet. Res. 12(42):38-43. Jan. 1951. 41.8 Am3A
- 29490 SOLIS, J. A., ARANEZ, J. B., and MANALILI, F. An improvement on Flynn's sutureless spaying operation. Amer. Vet. Med. Assoc. J. 118:95-96. Feb. 1951. 41.8 Am3
- 29491 STEPHENS, C. Femoral intramedullary pinning in an aged Pointer. Vet. Med. 46:117. Mar.1951. 41.8 M69
- 29492 SWENSON, R. Distemper in cats & kittens. Bird World 7:527-528,575-576. Nov.-Dec.1950. 41.8 B533
- 29493 TOURTELLOTTE, W. W., and COON, J. M. Treatment of fluoroacetate poisoning in mice and dogs. J. Pharmacol. & Expt. Ther. 101:82-91. Ref. Jan.1951. 396.8 J82
- 29494 TRON, E. Il cane ammalato; nozioni di patologia canina ad uso dei cinofili. Ed. 2, rev. Milano, Hoepli, 1950. 577 p. 41 T752
- 29495 ULLRICH, K. Intravenöse injektion und aderlass beim hunde. Tierärztl. Umschau 6:14-18. Jan. 1951. 41.8 T445
- 29496 ULLRICH, K. Die operative behandlung der stehohren und der ringelrute des hundes; ein beitrag zur kosmetischen chirurgie. Monatsh. f. Vetmed. 5:320-324. Dec.1950. 41.8 M742
- 29497 VIECK, G. Die leptospirose bei mensch und hund. Pirsch 2:913-914. Dec.9,1950. 410 P66
- 29498 VIECK, G. Prostigmin zur therapie von lähmungszuständen bei hunden. Deut. Tierärztl. Wchnschr. 57:382-384. Dec.1,1950. 41.8 D482
- 29499 WEST, W. R. The benefits in the use of hyaluronidase in hypodermoclysis. Vet. Med. 46:98-99. Mar.1951. 41.8 M69
- 29500 YOUNG, T. J. Leptospirosis. M. S. C. Veterinarian 11:85-87. Winter 1951. 41.8 M582
- Chiefly dogs.
- Miscellaneous
- 29501 AUBRY-DUSOULIER, J. L'exposant; ses devoirs et ses droits. Chiens et Vénérie 40:5-6. (To be cont.) Sept./Oct.1950. 48.8 C43
- 29502 DAUBIGNE, P. Vénérie. Chiens et Vénérie (Sup.) (n.s.)8:16. (Cont.) Sept./Oct.1950. 48.8 C43
- Hunting dogs.
- 29503 FARIA, R. DE. Training of hunting dogs. I. (In Portuguese.) Fauna [São Paulo] 9(8):19-20. Aug.1950. 410 F272
- 29504 GUINOT, R. L'élevage des chiots de chasse. Rustica 24:3. Jan.7,1951. 14 R92
- 29505 HÉROUT, V. Le signalement. Chiens et Vénérie (Sup.) (n.s.)8:3-5. Sept./Oct.1950. 48.8 C43
- Description of dogs for showing.
- 29506 JUDY, W. Dog shows and rules. Ed. 7. Chicago, Judy, 1950. 16 p. (Handy Dog Booklet Ser.) 48 J92H
- 29507 LOWRY, R. K. I want a watchdog! All-Pets Mag. 21(12):43,46. Dec.1950. 48.8 AL5
- 29508 MAGALHÃES, J. A. P. DE. Dog shows. (In Portuguese.) Fauna [São Paulo] 9(9):14-15. Sept.1950. 410 F272
- Brazil.
- 29509 MONTENOT, R. Le dressage. Chiens et Vénérie (Sup.) (n.s.)8:5. Sept./Oct.1950. 48.8 C43
- 29510 PALMER, G. F. Avoiding gun-shyness. New Zeal. Dog World 5(8):3-4. Sept.1950. 48.8 N48
- 29511 PALMER, G. F. Proper handling and love of the chase will often cure timidity. New Zeal. Dog World 5(10):2-3. Nov.1950. 48.8 N48
- 29512 SCOTT, J. P., FULLER, J. L., and JACKSON, R. B. Social behavior and organization in the dog. (Abs.) Anat. Rec. 108:547. Nov.1950. 447.8 An1
- 29513 SMITH, A. C. Training a champion to-day. Field 196:1097. Dec.23,1950. 10 F45
- Training dogs.
- 29514 STOCKMAN, M. J. R. United States Army war dogs; dog training in USAREUR. Roy. Army Vet. Corps. J. 21:165-166. Dec.1950. 41.8 G79
- 29515 TABEL. Grundsätzliches zur zwangsabrichtung. Pirsch 2:912-913. Dec.9,1950. 410 P66
- Dogs.
- 29516 YORKE, K. Kitten management. 2. Bird World 7:428-430. Sept.1950. 413.8 B533
- FUR ANIMALS - PEN RAISED
- Breeds and Breeding
- 29517 CLARKE, J. D. W. Practical tips on herd improvement. Fur Trade J. Canada 28(4):23-24,26. (Cont.) Dec.1950. 410 F965
- Chinchilla breeding.
- 29518 GOTTBEBUT, A. H. Research on chinchilla reproduction. Fur Farming J. 4(4):10-12. Jan./Feb. 1951. 45.8 K142
- 29519 HARTSOUGH, G. R. Practical mating methods. Amer. Fur Breeder 24(2):12,45-47. Feb.1951. 410 Am33
- Minks.
- 29520 IVONIN, F. M. Some problems of pedigree work in fox breeding. (In Russian.) Karakulevodstvo i Zverovodstvo 3(4):42-46. July/Aug.1950. 49 K14
- 29521 KTTOROV, P. M. From experience of mating minks. (In Russian.) Karakulevodstvo i Zverovodstvo 3(4):55-57. July/Aug.1950. 49 K14
- 29522 MAYERS, G. Types of mink worth raising. Black Fox Mag. & Mod. Mink Breeder 34(9):14,28;(10):22-24. Jan.-Feb.1951. 410 B56
- Breeds for fur production.
- 29523 SHACKELFORD, R. M. Genetics of the ranch mink. New York, Pilsbury, 1950. 91 p. 412.62 Sh1
- 29524 SHACKELFORD, R. M. If long-haired furs regain popularity. Natl. Fur News 22(12):16,30-31. Jan. 1951. 412.628 R59
- Fox breeding for fur production.
- 29525 STARKOV, I. D. In regard to the technique of mating minks. (In Russian.) Karakulevodstvo i Zverovodstvo 3(4):51-54. July/Aug.1950. 49 K14
- 29526 TUTTLE, G. What type of mutation mink should I raise? Natl. Fur News 22(12):13. Jan.1951. 412.628 R59
- 29527 VAN METER, L. Fur chewing and heredity. Natl. Chinchilla Breeder 6(11):12,18. Jan.1951. 412.628 N21
- Feeds and Feeding
- 29528 ABRAMOV, M. D. Protein dried yeasts—new feed for foxes. (In Russian.) Karakulevodstvo i Zverovodstvo 3(4):47-51. July/Aug.1950. 49 K14
- 29529 LALOR, R. J., TOVE, S. B., and ELVEHJEM, C. A. Wisconsin experiments prove mink need hog mucosa factor. Black Fox Mag. & Mod. Mink Breeder 34(9):13,29. Jan.1951. 410 B56
- 29530 NATIONAL CHINCHILLA BREEDERS OF AMERICA. First summary: chinchilla dietary statistics, compiled from questionnaire originated by the Eastern Branch for the good of the industry. Natl. Chinchilla Breeder 6(11):8-9. Jan.1951. 412.628 N21
- Veterinary Medicine
- 29531 BALLANTYNE, E. E., and FRASER, D. R. Alberta leads in distemper control. Fur Trade J. Canada 28(5):14,26. Jan.1951. 410 F965
- Similar title in Amer. Fur Breeder 24(2):38-39. Feb. 1951. 410 Am33
- 29532 GORHAM, J. R., BAKER, G. A., and BOE, N. Observations on the etiology of yellow fat disease in mink: preliminary report. Vet. Med. 46:100-102. Ref. Mar.1951. 41.8 M69
- 29533 KENNEDY, A. H. Paragonimus infection in a ranch-raised fox. Ontario Vet. Col. Rpt. 1949:132-137. 1950. 41.9 On8R
- 29534 MCKAY, K. A., and others. Listeria monocytogenes infection in chinchillas. Ontario Vet. Col. Rpt. 1949:137-145. Ref. 1950. 41.9 On8R
- A. H. Kennedy, D. L. T. Smith, and A. F. Bain, joint authors.
- 29535 OTT, G. L. Distemper vaccine offers protection—not a cure. Amer. Fur Breeder 24:18,38. Jan.1951. 410 Am33
- Minks.



- 29536 PETROV, A. M., and DUBNIŤSKIĬ, A. A. Helminthic disease of sables—metacercarial alaríasis. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(4):70-71. July/Aug. 1950. 49 K14  
Due to *Alaria alata*.
- 29537 WILCOX, H. H. Histology of the skin and hair of the adult chinchilla. *Anat. Rec.* 108:385-397. Nov. 1950. 447.8 Ani

#### Miscellaneous

- 29538 BENESCH, W. Beaver farming possibilities. *Fur Farming J.* 4(4):17. (Cont.) Jan./Feb. 1951. 45.8 K142
- 29539 CLARKE, J. D. W. What's doing in chinchillas—show time. *Fur Trade J. Canada* 28(4):20-21. Dec. 1950. 410 F965
- 29540 HARRINGTON, L. Fur farming in Newfoundland. *Fur Trade J. Canada* 28(4):12-13, 42, 44. Dec. 1950. 410 F965
- 29541 HARRINGTON, L. Mink ranching in Nova Scotia. *Fur Trade J. Canada* 28(5):12-13, 26, 28. Jan. 1951. 410 F965
- 29542 IAKOVLEVA, E. I., and IVANNIKOV, L. N. Fur animal farming beyond the Arctic Circle. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(4):76-78. July/Aug. 1950. 49 K14
- 29543 MCNICHOL, H. L. Chinchilla crusaders. *Fur-Fish-Game* 46(2):42-44. Feb. 1951. 410 F962  
Care and management.
- 29544 MCNICHOL, H. L. Pertinent facts about nutria. *Fur Farming J.* 4(4):16. (Cont.) Jan./Feb. 1951. 45.8 K142
- 29545 SHEREMET'EV, V. I. Fur animal farming in Primor'e. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(4):74-76. July/Aug. 1950. 49 K14
- 29546 SOKOLOV, G. V. On the semi-free system of raising nutrias. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(4):58-60. July/Aug. 1950. 49 K14
- 29547 VAKHRAMEEV, K. A. On [raising] sables. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(4):78-80. July/Aug. 1950. 49 K14
- 29548 WITMER, D. Spun platinum fur—chinchilla. *Fur-Fish-Game* 46:36-37. Jan. 1951. 410 F962

#### HORSES AND MULES

##### Breeds and Breeding

- 29549 ALFONS, H. Das norische pferd und seine zukunf. *Pflug* 3:254-255. Dec. 1950. 10 P48  
In Austria.
- 29550 BESANÇON, R., BROCHART, M., and HENNON, C. Rôle du massage utérin pratiqué lors de l'insémination artificielle sur le pourcentage des fécondations (résultats préliminaires). *Acad. Vét. de France. B.* 23:493-494. Nov. 1950. 41.9 R24  
In mares.
- 29551 BOLLHOFF, F. Hengsthaupfkorung und prämierung in Münster 1950. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1553-1554. Nov. 9, 1950. 18 L2346
- 29552 COCHRAN, K. The C.T.B.A. [California Thoroughbred Breeders Association] its history. *Thoroughbred Calif.* 12:168, 208, 210, 212, 214. (Cont.) Feb. 1951. 42.8 T393
- 29553 DAVILA, M. A. Algunos conceptos de las leyes de la herencia aplicados a la zootecnia. Argentina. *Dir. Gen. de Remonta y Vet. Rev. de Vet. y Fomento Equino* 10(38):45-53. (Cont.) Sept. 1950. 42.8 R32
- 29554 FAIRFAX-BLAKEBOROUGH, J. The Cleveland bay horse, its history, evolution and importance today. *Castleton Yorks, Eng., Council Cleveland Bay Horse Soc.,* 1950. 12 p. 42 F16
- 29555 GENERAL stud book; second supplement to v. 31, pt. I. Return of mares for 1950 with index and advertisements of stallions for season 1951. London, Weatherby, 1950. 168 p. 42.9 G28
- 29556 GRUBB, T. Album of horses. Lexington? N.C., 1950. 104 p. 42 G922  
Photographs of various breeds and types.
- 29557 HAINES, F. Truth about Appaloosas. I. *Tex. Livestock J.* 9(12):75. Dec. 1950. 49 T29
- 29558 HAMILTON, F. L. The Remount story. *West. Horseman* 15(12):8-10, 32-35; 16(1):6-7, 41-46; (2):12-14, 39-41. Dec. 1950-Feb. 1951. 42.8 W522
- 29559 HANSEN, M. F., and others. Studies on the hematology of the Thoroughbred horse. IV. Barren mares. *Amer. J. Vet. Res.* 12(42):31-34. Jan. 1951. 41.8 Am3A  
A. C. Todd, G. W. Kelley, and M. Cawein, joint authors.

- 29560 HARPER, J. A. How big the Arab? *West. Horseman* 16(2):10, 36. Feb. 1951. 42.8 W522
- 29561 HOSODA, T., and KANEKO, T. On the heredity of the horse blood groups. (In Japanese.) *Jap. J. Vet. Sci.* 12:127-144. Aug. 1950. 41.8 J27  
English summary.
- 29562 JUNQUEIRA, J. F. D. Point of view on the judging of the Mangalarga horse. (In Portuguese.) *Chacaras e Quintais* 82:704-705. Dec. 15, 1950. 9.2 C34
- 29563 KUMMER, U. VON. Oldenburgische hengstkörung für 1951. *Landwirtbl. Weser-Ems* 97:1034-1036. Dec. 7, 1950. 18 L2345
- 29564 KUMMER, U. VON. Ostfrieslands hengstkörung 1950 in Aurich. *Landwirtbl. Weser-Ems* 97:1054-1056. Dec. 14, 1950. 18 L2345
- 29565 LECLERC, M. The "Canadian" horse and "Canadian" cattle. *Agr. Inst. Rev.* 6:43-44. Jan. 1951. 7 Ag8
- 29566 MAHAFFEY, L. W. Studies of fertility in the Thoroughbred mare. 2. Early post-partum oestrus ("foal heat,"). *Austral. Vet. J.* 26:295-300. Nov. 1950. 41.8 Au72
- 29567 MILLER, F. P. Imported sires and line breeding. *Thoroughbred Calif.* 12:146-147, 184, 186. Feb. 1951. 42.8 T393
- 29568 PARK, R. Fifty years among Clydesdales. *Scot. Farmer* 58:1587. Dec. 30, 1950. 10 Sco8
- 29569 PULTE, J. Nachdenkliches vor den Krefelder hengsttagen. *Tierzüchter* 2:557-559. Nov. 5, 1950. 49 T445  
Breeding of horses.
- 29570 RASMUSSEN, L. The thread of grey. *Thoroughbred Calif.* 12:160-162. Feb. 1951. 42.8 T393  
Inheritance of grey color in Thoroughbreds.
- 29571 SAINT-QUENTIN, M. Le poney Shetland. *Rustica* 24:8, 13. Jan. 7, 1951. 14 R92
- 29572 SCHAPS, T. Playing with pedigrees. *Thoroughbred Calif.* 12:166, 208. (Cont.) Feb. 1951. 42.8 T393
- 29573 SCHAUS, R. Arizona Palominos; the golden horse makes up for lost time. *West. Livestock J.* 29(7):120, 122-123. Jan. 15, 1951. 6 F2278
- 29574 SEIBOLD, D. Horseman's horseman—Arizona's J. E. Browning champions the pure type of Quarter Horse. *West. Livestock J.* 29(7):134-138. Jan. 15, 1951. 6 F2278

##### Feeds and Feeding

- 29575 MØLMEN, O. Feeding of horses in the winter. (In Norwegian.) *Norsk Landbr.* 16:479-481. Dec. 15, 1950. 11 N8122
- 29576 ZWAGERMAN, C. Efficient feeding of horses. (In Dutch.) *Netherlands. Landvoorlichtingsdienst.* Maandbl. 7:423-428. Oct. 1950. 12 N383M

##### Veterinary Medicine

- 29577 BERG, E. Betrachtungen zur lahmheitsdiagnose. *Monatsh. f. Vetmed.* 5:309-312. Dec. 1950. 41.8 M742  
Horses.
- 29578 BOSZJAN, G. M. On infectious anaemia of horses. (In Polish.) *Med. Weter.* 6:395-397. July 1950. 41.8 M453
- 29579 BRION, A. Sur la disparition des anticorps anti-mulet dans le colostrum de la jument mulassière tachée de jaunisse, après le part. *Soc. de Biol. Compt. Rend.* 144:1376-1378. Oct. 1950. 442.9 P21
- 29580 BROWN, V. R. A perocormus and atretocormus filly. *Ontario Vet. Col. Rpt.* 1949:109-117. 1950. 41.9 On8R
- 29581 BULLEN, J. J. Epizootic lymphangitis. *Roy. Army Vet. Corps. J.* 21:158-159. (To be cont.) Dec. 1950. 41.8 G79  
Horses.
- 29582 BURNS, K. F. Immunological relationship between the viruses of Japanese B encephalitis and Japanese equine encephalomyelitis. *J. Infect. Dis.* 88:1-8. Jan./Feb. 1951. 448.8 J821
- 29583 CARMEN, G. M. Cryptorchidism in the horse. *Iowa State Col. Vet.* 13:11-13. Ref. 1951. 41.8 V6425
- 29584 DOLL, E. R., MCGEE, W. R., and HULL, F. E. Hemolytic icterus of newborn foals. *Blood-Horse* 61:314-315. Feb. 10, 1951. 42.8 T392



- 29585 ERRINGTON, B. J. Pertaining to equines. Founder, which has probably lamed more horses than any other ailment, is herein explained. Even the uninitiate among horsemen have learned to look with suspicious eye at the concave walls of the front hooves of the equine species. *Thoroughbred Calif.* 12:158,206. Feb.1951. 42.8 T393
- 29586 FEHR. Neuzeitliche zahnbehandlung beim pferde. *Landwirtbl. Weser-Ems* 97:926. Nov.2,1950. 18 L2345
- 29587 FORMSTON, C. Equine castration. *Vet. Rec.* 63:18-20. Jan.13,1951. 41.8 V641
- 29588 GILMAN, A. R. The hematological response of the horse to the virus of equine infectious anemia. *Pa. U. Sch. Vet. Med. Vet. Ext. Q.* 121:44-54. Ref. Jan.13, 1951. 41.9 P386
- 29589 GIUA, M. How I castrated more than a thousand horses without any failures or complications. (In Italian.) *Prog. Vet.* 5:688,690-691. Dec.15,1950. 41.8 P942
- 29590 ISHITANI, R., and others. Studies on the aborted fetus. I. Investigation of the gastric content. (In Japanese.) *Jap. J. Vet. Sci.* 12:145-151. Aug.1950. 41.8 J27
- N. Sasaki, T. Nakagawa, M. Hayakawa, and K. Ichimura. joint authors.  
English summary.  
Horses.
- 29591 JACKSON, W. F. Leptospira associated with nephritis in a mule. *Vet. Med.* 46:75. Feb.1951. 41.8 M69
- 29592 JENSEN, L. A. Extensive growth of the hooves of a Shetland. *Iowa State Col. Vet.* 13:40-41. 1951. 41.8 V6425
- Due to chronic laminitis.
- 29593 KHAN, M. Z. Incidence of living twins in equines. *Roy. Army Vet. Corps. J.* 21:171-173. Dec.1950. 41.8 G79
- 29594 KRÁSNÝ, F. Contribution to the castration of stallions. (In Czech.) *Časopis Českoslov. Vet.* 5:402-403. Sept.10,1950. 41.8 C27
- 29595 MCCOLLUM, W. H., and DOLL, E. R. Serum levels of aureomycin in foals. *Vet. Med.* 46:84-86. Mar.1951. 41.8 M69
- 29596 MCGEE, W. R. The foaling mare: the period of gestation—signs of foaling—preparation for foaling—normal and abnormal presentations—the afterbirth—care after foaling. *Blood-Horse* 61:370-373,386,388. Feb.17, 1951. 42.8 T392
- 29597 MANTOVANI, A. On carriers of the germs in equine salmonellosis; bacteriological and serological research. (In Italian.) *Clin. Vet.* 73:330-333. Ref. Nov. 1950. 41.8 C61
- English summary.
- 29598 MARTINEZ FONTES, L. F. Encefalomiellitis equina (locura de los caballos). Argentina. *Dir. Gen. de Remonta y Vet. Rev. de Vet. y Fomento Equino* 10(38):39-43. Sept.1950. 42.8 R32
- 29599 MILZER, A. Effect of pituitary adrenocorticotrophic hormone (ACTH) on experimental poliomyelitis and equine encephalomyelitis. *J. Infect. Dis.* 88:54-55. Jan./Feb.1951. 44.8 J821
- 29600 MÜLLER, E. Der kreuzschlag des pferdes. *Landwirtschaft* 1950:361. Dec.1950. 19 L235
- Azoturia.
- 29601 NIŽNÁNSKY, F. Dourine in Czechoslovakia. (In Czech.) *Časopis Českoslov. Vet.* 5:383-398. Ref. Sept.10,1950. 41.8 C27
- 29602 NUSSBAUMER, J. Die normale körpertemperatur des pferdes unter berücksichtigung verschiedener einflüsse. *Schweiz. Arch. f. Tierheilk.* 93:22-45. Ref. Jan.1951. 41.8 Sch9
- English summary.
- 29603 PERALTA BERGNA, H. D., and GALLO, G. G. Nuevos casos de rhinosporidiosis en medicina veterinaria (comunicación previa). *Gac. Vet.* 12:207. Sept./Oct.1950. 41.8 G112
- In mules.
- 29604 RUTHE, H. Eine neue zwanghufform. *Monatsh. f. Vetmed.* 5:330-331. Dec.1950. 41.8 M742
- 29605 SCHEBITZ, H. Die ätiologie und therapie des prolapsus penis beim pferd. *Monatsh. f. Vetmed.* 5:316-320. Ref. Dec.1950. 41.8 M742
- 29606 SESAHI, K. Studies on erythrocyte sedimentation in horses. II. (In Japanese.) *Utsunomiya U. Col. Agr. B.* 1:81-94. Feb.1950. 107.6 U77B
- English summary.
- 29607 TODD, A. C., and others. Aberrant loci in equine verminous aneurysms. *Amer. Vet. Med. Assoc. J.* 118:102. Feb.1951. 41.8 Am3
- R. G. Brown, Z. N. Wyant, and F. E. Hull, joint authors. *Strongylus vulgaris* present.
- 29608 VITUMS, A. The development of the aortic arches in the horse. *Amer. J. Vet. Res.* 12(42):26-30. Ref. Jan.1951. 41.8 Am3A
- 29609 WALES, K. Choke in a horse. *Iowa State Col. Vet.* 13:41. 1951. 41.8 V6425
- 29610 WESTHUES, M. Die kastration des pferdes mit der katgutligatur. *Monatsh. f. Vetmed.* 5:315-316. Dec. 1950. 41.8 M742
- 29611 YOUNG, J. R. Give your a horse a good mouth. *West. Horseman* 16(2):8,32. Feb.1951. 42.8 W522

#### Miscellaneous

- 29612 ALLEN, T. W. Cutting horses; cow cutting—what is it? *Hoofs & Horns* 20(8):16. Feb.1951. 41.0 H762
- 29613 JAUME, J. El niño y el caballo. *Cult. Mod.* 33:367-368. Oct.1950. 15 C89
- Spain.
- 29614 MASCARO, L. A. Entrenamiento de los caballos "marcheros". Argentina. *Dir. Gen. de Remonta y Vet. Rev. de Vet. y Fomento Equino* 10(38):54-60. Sept. 1950. 42.8 R32
- 29615 MAZÉ-SENCIER. L'élevage du cheval. *Colon Franc. de Tunisie (ser.7)44,1.e.61(2179):1,3.* Jan.6,1951. 24 C712
- 29616 MORRILL, E. L. Horse sense in care and feeding. *West. Livestock J.* 29(7):126,128-130. Jan.15, 1951. 6 F2278
- 29617 SALCES, F. El fomento equino en nuestro país y en el Ejército. IX. Argentina. *Dir. Gen. de Remonta y Vet. Rev. de Vet. y Fomento Equino* 10(38):17-36. Sept.1950. 42.8 R32

#### LABORATORY ANIMALS, SMALL

##### Breeds and Breeding

- 29618 AHUJA, M. L., and SINGH, G. A brief note on mouse breeding. *Indian J. Med. Res.* 38:315-316. July 1950. 44.8 In22
- 29619 BRUCE, H. M. Feeding and breeding of laboratory animals. XII. A note on the breeding of guinea-pigs without fresh green food. *J. Hyg.* 48:338-345. Ref. Sept.1950. 44.8 J82
- 29620 HAMMOND, J., JR. Control by light of reproduction in ferrets and mink. *Nature [London]* 166:150-151. Jan.27,1951. 47.2 N21

##### Veterinary Medicine

- 29621 STIREWALT, M. A., KUNTZ, R. E., and EVANS, A. S. The relative susceptibilities of the commonly-used laboratory mammals to infection by *Schistosoma mansoni*. *Amer. J. Trop. Med.* 31:57-82. Ref. Jan.1951. 44.8 Am33
- Including rabbits, cats, and dogs.

##### Miscellaneous

- 29622 MARSH, A. F. Handling hamsters. *Fur Farming J.* 4(4):18. Jan./Feb.1951. 45.8 K142
- 29623 REYNOLDS, H. W. Golden hamsters. *Hamsters. Hamster photography by Peter Rogers. Silver Spring? Md., Denlinger, 1950.* 28 p. 412.7 R33

#### POULTRY

##### Breeds and Breeding

- 29624 AMBLER, G. H. Principles of breeding. *N. Z. Poultry World* 13:308-309. Oct.1950. 47.8 N11
- 29625 BLACKWELL, H. L. Emphasis on specialisation. *Poultry Indus. [Milford]* 16:84-85. Jan.25,1951. 47.8 P8644
- Pedigree breeding.
- 29626 BLACKWELL, H. L. Which comes first? When breeding replacements should one breed purely for type or for eggs? *Farmers Wk. [London]* 34(5):61. Feb.2, 1951. 10 F2226
- Poultry breeding.
- 29627 BRANN, H. V. Leghorn cross cockerels excellent birds for fattening in batteries. *Australas. Poultry World* 22(3):15. Oct.2,1950. 47.8 Au72



- 29628 BRILES, W. E. Antigenic differences between inbred lines of chickens. (Abs.) *Genetics* 35:656-657. Nov.1950. 442.8 G28
- 29629 BRILES, W. E., MCGIBBON, W. H., and IRWIN, M. R. On multiple alleles effecting cellular antigens in the chicken. *Genetics* 35:633-652. Ref. Nov.1950. 442.8 G28
- 29630 CESAREO, J. The Maltese Black breed. *World's Poultry Sci. J.* 6:277-278. Oct./Dec.1950. 47.8 W89
- 29631 CHOQUETTE, C. Quatre aviculteurs, un seul troupeau. *B. des Agr.* 47:13,20-23. Jan.1951. 7 B872
- Breeding of Barred Plymouth Rocks in Quebec.
- 29632 COOPER, J. C. The art and practice of breeding. *Poultry Indus. [Milford]* 16:83. Jan.25,1951. 47.8 P8644
- 29633 D'EASUM, C. G. The white hope; Idahoan adopts 'single package' Beltsville Small White as another solution to turkey sales problem. *Idaho Farmer* 68:904, 924. Dec.21,1950. 6 G282
- 29634 DEMING, B. Hybrid chix. *Amer. Farm Youth* 16(8):27. Jan.1951. 6 Am393
- 29635 ECHARRI LOIDL, J. M. Avicultura y selección. 4-5. Valencia Avic. 7(5):22-25; (8):18-24. June, Sept.1950. 47.8 V23
- Genetics.
- 29636 FLOAT, F. P. Family breeding pays; the results of a system based upon comprehensive progeny testing after it has been in operation for three years. *Mod. Poultry Keeping* 63:612-613. Dec.20,1950. 47.8 Eg3
- 29637 FONSECA, J. F. Breeding better Baldhead Tumblers. *Amer. Pigeon J.* 40:5. Jan.1951. 47.8 Am35
- 29638 GLAZENER, E. W., and others. Effect of inbreeding on broiler weights and feathering in the fowl. *Poultry Sci.* 30:108-112. Ref. Jan.1951. 47.8 Am33P
- W. L. Blow, C. H. Bostian, and R. S. Dearstyne, joint authors.
- 29639 HALE, M. Breeders in cages. *Poultry World* 87:287-288. Nov.23,1950. 47.8 P8682
- 29640 HAYS, F. A. Fertility and hatchability in Rhode Island Reds. *Poultry Sci.* 30:153. Jan.1951. 47.8 Am33P
- 29641 HILGER, R. Einiges über die form des Sussex-huhnes. *Geflügelhof* 13:773-774. Nov.24,1950. 47.8 G276
- 29642 HORNER, F. Environment in poultry breeding. *Scot. Farmer* 58:1588. Dec.30,1950. 10 Sco8
- 29643 HUTTON, J. The Sussex Bantams. *All-Pets Mag.* 21(12):65,67. Dec.1950. 48.8 AL5
- 29644 KOYATSU, T. Ikusu no hiketsu [Secret of chicken breeding]. Tokyo, Chikyu Shuppan Sha, 1950. 200 p. 47 K843
- 29645 LARRABEE, E. N. Producing superior broiler chicks from production stock. *Poultry Indus. [Boston]* 55:33. Jan.1951. 47.8 N44
- 29646 LERNER, I. M., and CRUDEN, D. The heritability of egg weight: the advantages of mass selection and of early measurements. *Poultry Sci.* 30:34-41. Ref. Jan.1951. 47.8 Am33P
- 29647 LIND, A. J. The South African Minorca. *S. A. P. A. Poultry B.* 15(159):9. Dec.1950. 47.8 So89
- 29648 LIVET, L. Bonne et mauvaise fécondation. *Paysan Franç.* 26(396):10. Dec.1950. 14 P29
- Poultry.
- 29649 LOCKENVITZ, K. Ein blick in die welt der Kropftauben. *Kleintierzüchter Tierbörse* 4(48):5. Nov.1, 1950. 49 K872
- 29650 LUCADEMA, J., and NEANDER, H. Barbs—poor color rumps and tails. *Amer. Pigeon J.* 40:2-3. Jan.1951. 47.8 Am35
- 29651 LUKAS, H. Über die Peking-ente. *Osterr. Kleintierzüchter* 1950:853. Nov.1950. 49 Os7
- 29652 MCCLARY, C. F., and LERNER, I. M. Extra-chromosomal effects in the transmission of egg-shell quality in chickens. (Abs.) *Genetics* 35:679. Nov.1950. 442.8 G28
- 29653 MCCREDIE, R. R. The useful Wyandotte Bantam. *Bird World* 7:425-427, 472-473. Sept.-Oct.1950. 413.8 B533
- 29654 MCKINNEY, R. W. A year and a half with Rollers. *Amer. Pigeon J.* 40:9,25-26. Jan.1951. 47.8 Am35
- 29655 MARTIN, J. H. "Nickability" is inherited and transmittable; new angles on breeding possibilities. (Extr.) *Poultry Field* 3(17):4-5. Jan.4,1951. 47.8 P8655
- 29656 MEHNER, A., and BUCHHOLZ, H. Kennhühner aus wirtschaftsrassen. *Deut. Wirtgeflügelzucht.* 3:27. Oct.21,1950. 47.8 D483
- 29657 MOORE, A. C. Can we raise our figures for fertility and hatchability? *Poultry [London]* 108:88. Jan.23,1951. 47.8 P869
- 29658 MOORE, A. C. I am considering my 1952 males now. *Poultry [London]* 108:48. Jan.16,1951. 47.8 P869
- 29659 NAF, A. Das problem der Faverolles-zucht. *Geflügelhof* 13:736-738. Nov.10,1950. 47.8 G276
- 29660 NOFTZGER, S. A. Origin of Partridge Plymouth Rocks. 4. *Amer. Poultryman* 13(9):12. Jan. 1951. 47.8 So86
- 29661 NOURSE, H. A. Select and mate the breeders now. *Poultry Herald* 63:3. Jan.1951. 47.8 P862
- 29662 PASSEBON, L. Le sensationnel tournoi pour le poulet de demain. *Vie à la Campagne* 40(483):17-20. Jan.1951. 80 V87
- 29663 PEELE, F. E. Now is the time to select turkey breeders. *Mod. Poultry Keeping* 64:8. Jan.3,1951. 47.8 Eg3
- 29664 PENSOM, W. H. Development of Birmingham Rollers. *Amer. Pigeon J.* 40:3-5. Jan.1951. 47.8 Am35
- 29665 POWELL-OWEN, W. Colour in utility stock. Some common faults in leading commercial breeds. *Poultry World* 88:11-12. Jan.4,1951. 47.8 P8682
- 29666 POWELL-OWEN, W. Eggs and breed points; discriminating buyers of pedigree stock do ask for both when ordering cockerels. *Poultry World* 88:32-33. Jan.11,1951. 47.8 P8682
- 29667 POWELL-OWEN, W. Parents of the winners are of more immediate value to the breeder, being tested reproducers. *Poultry World* 87:417-418. Dec.28,1950. 47.8 P8682
- 29668 POWELL-OWEN, W. Pick the male bird first. *Poultry World* 87:400. Dec.21,1950. 47.8 P8682
- 29669 POWELL-OWEN, W. Stock males—a second look. *Poultry World* 87:340. Dec.7,1950. 47.8 P8682
- 29670 POWELL-OWEN, W. Watch the fighting stage. *N. Z. Poultry World* 13:348-349. Nov.1950. 47.8 N11
- Cocks.
- 29671 RAGIONIERI, C. Poultry keeping: always a subject for interesting discussions and polemics; pure and hybrid races. (In Italian.) *Allevatore* 6(48):3. Dec.3, 1950. 49 AL55
- 29672 REGENSTEIN, F. Noch ist es zeit! Verbesserung der lege- und mastleistung durch gebrauchskreuzungen. *Deut. Wirtgeflügelzucht.* 3:116-118. Dec.9,1950. 47.8 D483
- 29673 SCHOONMAKER, J. W. Breeding White Rocks—a truly all-purpose strain. *Poultry Indus. [Boston]* 55:20, 46. Jan.1951. 47.8 N44
- 29674 SELZER, O. C. Fundamentals of genetics. 3. Out-breeding. *Amer. Poultryman* 13(9):10-11. Jan.1951. 47.8 So86
- 29675 SENIOR, B. J. Vitamin requirements for hatchability. *Accredited Poultry Breeders' Fed. Eng. & Wales. News Serv.* 22:18-19. Winter 1950. 47.8 Ac2
- 29676 SMITH, S. B. Artificial light for turkey breeders. *East. Feed Merchant* 2(2):22-23. Feb.1951. 389.78 Ea7
- 29677 STACEY, C. G. Fertility and hatchability in folds. *Poultry World* 87:287. Nov.23,1950. 47.8 P8682
- 29678 STACEY, C. G. Is there room for individual judgment in breeding? *Poultry [London]* 108:91. Jan.30, 1951. 47.8 P869
- 29679 THOMPSON, V. Mating and breeding Barred Plymouth Rocks. *Amer. Poultryman* 13(9):8. Jan.1951. 47.8 So86
- 29680 TRUAX, H. Co-op supports breeders' co-op. *Hoosier Farmer* 36:38. Jan.1951. 280.82 H76
- Poultry research.
- 29681 WATANABE, Y. Personal experiences in poultry breeding. *Poultry Field* 3(18):6-8. Jan.18,1951. 47.8 P8655
- 29682 WATSON, R. C. Breeding of turkeys. *Scot. Farmer* 58:1565. Dec.23,1950. 10 Sco8
- 29683 WATSON, R. C. Symposium on turkeys: breeding. *Poultry Field* 3(17):23, inside back cover. Jan.4, 1951. 47.8 P8655
- 29684 WEISSEL, L. Verschwindende geflügelrassen als zeichen der wirtschaftlichen not Österreichs. *Osterr. Kleintierzüchter* 1950:851-852. Nov.1950. 49 Os7



29685 WILLIAMS, W. R., JR. Breeding for southern grower's profit. *Soeast. Poultryman* 4:30,68-74,77,80-82. Jan.1951. 47.8 So872  
Also in *Va. Poultryman* 5:30,68-74,77,80-82. Jan.1951. 47.8 V812

### Feeds and Feeding

- 29686 ANDERS-SCHWENDIMANN, W. Fließendes wasser in jedem auslauf. *Geflügelhof* 13:811. Dec.8, 1950. 47.8 G276
- 29687 ATKINSON, R. L., and COUCH, J. R. The effect of feeding an APF concentrate and fish solubles on the growth of Broadbreasted Bronze turkeys. *Poultry Sci.* 30:81-85. Jan.1951. 47.8 Am33P
- 29688 BAIRD, E. Select and mix mash ingredients carefully. *Poultry [London]* 107:519. Dec.26,1950. 47.8 P869
- 29689 BARKER, W. E. The pathway to success. *Racing Pigeon* 93:71,122-123,94:28. (Cont.) Nov.4,Dec.9, 1950,Jan.27,1951. 47.28 R11
- Feeding
- 29690 BERG, L. R., and BEARSE, G. E. Effect of iodinated casein and thiouracil on the performance of laying birds. *Poultry Sci.* 30:21-28. Ref. Jan.1951. 47.8 Am33P
- 29691 BIELY, J., and others. A.P.F. supplements in the chick ration. *Poultry Sci.* 30:143-147. Jan.1951. 47.8 Am33P
- B. March, J. Stevens, and R. Casorso, joint authors.
- 29692 BOLIN, D. W., and others. Effect of delayed methionine supplementation in chick ration. *Poultry Sci.* 30:42-46. Jan.1951. 47.8 Am33P
- E. W. Klosterman, L. Butler, K. Schlamb, and R. Bryant, joint authors.
- 29693 CARPENTER, K. J., and DUCKWORTH, J. The nutritive value of herring 'alkali-reduction' meal for chicks. *J. Agr. Sci. [London]* 40:44-49. Ref. Jan./Apr.1950. 10 J822
- 29694 CASSAMAGNAGHI, F. Principios generales aplicables a la alimentación de las aves. *Agr. Costarricense* 8:472-478. (To be cont.) Dec.1950. 8 Ag895
- 29695 COUCH, J. R. Texas reports further on antibiotics; with added B vitamins, they help later growth. *Turkey World* 26(2):11,95,97. Feb.1951. 47.38 T84
- 29696 DERBAL, Z. Influence du mil germé sur la ponte des poules. *French West Africa. Insp. Gén. de l'Elevage. B. des Serv. de l'Elevage et des Indus. Anim.* 3:45-46. Jan./Mar.1950. 41.9 F88B
- 29697 DUCKWORTH, J., NAFTALIN, J. M., and DALGARNO, A. C. The digestibility of linseed oil and mutton fat by chicks. *J. Agr. Sci. [London]* 40:39-43. Ref. Jan./Apr.1950. 10 J822
- 29698 EWING, W. R. Poultry nutrition, for the use of feed manufacturers, feed dealers, feed salesmen and service men, veterinarians, hatcherymen, breeders and poultrymen. A text and reference book for instructors, students and all persons interested in poultry feeds and feeding. Ed. 4, rev. South Pasadena, Calif., 1951. 1518 p. Ref. 47 Ew5
- 29699 EWINS, A. The "B" group of vitamins. *Mod. Poultry Keeping* 63:634-635. Dec.27,1950. 47.8 Eg3
- In poultry nutrition.
- 29700 FANGAUF, R. Der APF-faktor - vitamin B12-kondensierte fischbrühe - was bedeuten sie für die geflügelzucht-praxis? *Deut. Wirtgeflügelzucht.* 3:139-141. (Concl.) Dec.23,1950. 47.8 D483
- 29701 GÁLLEGO PIEDRAFITA, J. Alimentación práctica de las gallinas. *Ceres [Valladolid]* 15(173):37, 39. Nov.1,1950. 15 C33
- 29702 HALE, M. Home-grown feed stuffs. 1-3. *Poultry World* 87:417;88:10,32. Dec.28,1950-Jan.11,1951. 47.8 P8682
- 29703 HEMSLEY, J. A. Balancing the intensive layer's ration. *Poultry [London]* 108:10. Jan.2,1951. 47.8 P869
- 29704 HEMSLEY, J. A. Foods to choose for making the farm-mixed ration. *Poultry [London]* 107:479. Dec.12,1950. 47.8 P869
- 29705 HEUSER, G. F. Salt additions to chick rations. (Sum.) *Feedstuffs* 23:24. Jan.6,1951. 286.81 F322
- 29706 JOHNSON, E. A. PCA 20% laying mash—more feed for less money. *Co-op. Poultryman* 16:8-9. Jan. 1951. 47.8 C782
- 29707 JOHNSON, E. L. B-12 and antibiotics; their value to the soybean industry. *Soybean Digest* 11(3):14-15. Jan.1951. 60.38 So9
- Poultry nutrition.
- 29708 JUKES, T. H. Effects of aureomycin on the growth of chickens and pigs. *Poultry Indus. [Boston]* 55: 5,46. Ref. Jan.1951. 47.8 N44
- 29709 KRATZER, F. H., and WILLIAMS, D. E. The value of ground carob in rations for chicks. *Poultry Sci.* 30:148-150. Jan.1951. 47.8 Am33P
- 29710 LILLIE, R. J., and BIRD, H. R. How breeder rations affect hatchability and chick performance. *Poultry Comment* 8:1-4. Jan.1951. 47.8 D92
- 29711 LILLIE, R. J., OLSEN, M. W., and BIRD, H. R. Variation in reproductive response of hens to dietary deficiency. *Poultry Sci.* 30:92-97. Jan.1951. 47.8 Am33P
- 29712 MCGINNIS, J. Do antibiotics make good feeds better? *Washcoegg* 28(8):12-13,27. Jan.1951. 47.8 W27
- 29713 MARTINEZ, C. Alimentación y cuidados de las palomas. *Cult. Mod.* 33:373-374. Oct.1950. 15 C89
- 29714 MILLER, M. W. New starting feed plan. *Washcoegg* 28(8):22. Jan.1951. 47.8 W27
- 29715 NIKOLAICZUK, N. APF aids growth in first weeks. *Milling & Feed* 32:19,74. Jan.1951. 298.8 C162
- Poultry.
- 29716 NORRIS, L. C., MILLER, R. F., and YACOWITZ, H. The amount of vitamin B12 needed by chickens. *Feedstuffs* 23:30-32,34. Jan.6,1951. 286.81 F322
- 29717 NORRIS, L. C. Studies on unidentified factors required for chick growth. *Feedstuffs* 23(4):39-41. Jan.27,1951. 286.81 F322
- 29718 NORRIS, L. C. Vitamins needed by chickens. *Hatchery & Feed* 25:32,34-35. Jan.1951. 47.8 H28
- 29719 OSER, B. L. A new yardstick for vitamin D. *Poultry Comment* 8:3-4. Jan.1951. 47.8 D92
- 29720 OTT, W. H. Further studies of the activity of crystalline vitamin B12 for chick growth. *Poultry Sci.* 30:86-91. Jan.1951. 47.8 Am33P
- 29721 PALAFOX, A. L., and ROSENBERG, M. M. Dried cow manure as a supplement in a layer and breeder ration. *Poultry Sci.* 30:136-142. Ref. Jan.1951. 47.8 Am33P
- 29722 PATRICK, H. Studies on supplements for high soybean oil meal rations for early poult growth. *Poultry Sci.* 30:70-72. Jan.1951. 47.8 Am33P
- 29723 PEELER, H. T., and others. Studies of the effect of vitamin B12 on hatchability. *Poultry Sci.* 30: 11-17. Ref. Jan.1951. 47.8 Am33P
- R. F. Miller, C. W. Carlson, L. C. Norris, and G. F. Heuser, joint authors.
- 29724 PERONNE, B. L'alimentation des poussins. *Bétail & Basse-Cour* 5(spec. no.):23-25,27. 1950. 49 B462
- 29725 POTTS, J. W. Wonder drugs in turkey rations. *Farm & Ranch South. Agr.* 81:8,45. Jan.1951. 6 T31
- Aureomycin.
- 29726 ROSENBERG, M. M., and PALAFOX, A. L. The effect of creeping indigo (*Indigofera endecaphylla*) when fed to growing chickens. *World's Poultry Sci. J.* 6: 284-291. Oct./Dec.1950. 47.8 W89
- 29727 SCHOOP, G. Ist brandweizen für hühner schädlich? *Deut. Wirtgeflügelzucht.* 3:42-43. Oct.28, 1950. 47.8 D483
- 29728 SOMMERKAMP, G. Die grünlandnutzung in der geflügelhaltung Englands. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1493-1494. Oct.26,1950. 18 L2346
- 29729 STEWART, W. I., and UPP, C. W. The effect of form of feed on growth and feed efficiency, pellets versus mash versus granules for broilers. *Poultry Sci.* 30:63-66. Ref. Jan.1951. 47.8 Am33P
- 29730 SUZUKI, K. Yokai shiryo shin-chishiki [New knowledge for feed of chicken raising]. Tokyo, Meibundo, 1950. 376 p. 47 Su9
- 29731 SWENSON, M. J. Effect of a vitamin B12 concentrate and liver meal on growth and feed efficiency of chicks fed an all-plant protein ration. *Poultry Sci.* 30: 55-62. Ref. Jan.1951. 47.8 Am33P
- 29732 THORBURN, J. Growing for poultry profits. 2-9. *Poultry Farmer [London]* 123(3203):12;(3204):14; 124(3205):14;(3206):14;(3207):14;(3208):14;(3209):14; (3210):14. Dec.22,1950-Feb.9,1951. 47.8 F312
- Home-growing of poultry feeding stuffs.



29733 VAVICH, M. G., and KEMMERER, A. R. Effect of xanthophylls on utilization of carotene by chicks. Arch. Biochem. 28:295-298. Sept.1950. 381 Ar2

29734 VERRAN, R. F. Ducks in the orchard keep weeds down without labour and at a profit. S. A. P. A. Poultry B. 15(159):21. Dec.1950. 47.8 So89

29735 VEZZANI, V., and QUILICI, R. Le lait écremé comme substituant des farines d'origine animale dans l'alimentation de la volaille. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):559. 1950. 388 C765

29736 WILSON, E. Dredge corn will provide the winter rations. Poultry [London] 107:499. Dec.19,1950. 47.8 P869

#### Veterinary Medicine

29737 ADLER, H. E., WILLERS, E. H., and CAMPBELL, J. Newcastle disease (avian pneumoencephalitis) in Hawaii. Amer. J. Vet. Res. 12(42):44-47. Jan.1951. 41.8 Am3A

29738 AGENJO CECILIA, C. Las enfermedades en la explotación avícola; importancia y remedios. Ganadería [Madrid] 8:565-567. Sept.1950. 49 G15

29739 AMICH GALLI, J. Efectos de los estrógenos en el fisiologismo del pollo. Res 18:25577-25578. Dec.20, 1950. 288.85 R31

29740 ANTALOVSKÁ, Z., ANTALOVSKÝ, A., and NOVÁK, P. Caponizing of cockerels by implantation of agostilben tablets. (In Czech.) Časopis Českoslov. Vet. 5:398-402. Ref. Sept.10,1950. 41.8 C27

29741 BABCOCK, M. C. How to raise clean pullets in 1951. Amer. Agr. 148:61,69,83. Feb.3,1951. 6 Am3

29742 BANG, F. B., FOARD, M., and KARZON, D. T. Mode of action of heat labile serum inactivating substance on Newcastle disease virus. Johns Hopkins Hosp. B. 88:83-100. Ref. Jan.1951. 448.8 J63B

29743 BEARD, W. A. Poultry practice; respiratory diseases. No. Amer. Vet. 32:99. Feb.1951. 41.8 N812

29744 BEAUDETTE, F. R. Immunisation against Newcastle disease. Mod. Poultry Keeping 64:36-37,60-61. Jan.10-17,1951. 47.8 Eg3

29745 BEN-HAREL, S. The phagocytic activity against Plasmodium lophurae of macrophages from ducks of varying degrees of natural resistance to this parasite. Amer. J. Hyg. 53:1-10. Ref. Jan.1951. 449.8 Am3

29746 BENOIT, J., ASSENMACHER, I., and WALTER, F. X. Activité gonadotrope de l'hypophyse du canard domestique, au cours de la régression testiculaire saisonnière et de la prépuberté. Soc. de Biol. Compt. Rend. 144:1403-1407. Oct.1950. 442.9 P21

29747 BENOIT, J., and others. Sensibilité testiculaire aux hormones gonadotropes hypophysaires, chez le canard domestique, au cours de la période de régression testiculaire saisonnière. Soc. de Biol. Compt. Rend. 144:1400-1403. Oct.1950. 442.9 P21

P. Mandel, F. X. Walter, and I. Assenmacher, joint authors.

29748 BERGH, M. Newcastle disease of poultry. Farming So. Africa 25:344. Nov.1950. 24 So842

29749 BLIECK, L. DE. Contribución al problema del coriza aviar. Veterinaria 14:1005-1009. Dec.1950. 41.8 V6429

29750 BOHREN, B. B. A sex-linked nervous disorder in the fowl and its linkage relationship. (Abs.) Genetics 35:655. Nov.1950. 442.8 G28

29751 BONADUCE, A. Contribution towards the prevention of Newcastle disease in chickens. (In Italian.) Clin. Vet. 73:263-270. Ref. Sept.1950. 41.8 C61

29752 BORN, W. C. Natürliche toxoplasma-infektionen beim huhn. Tierärztl. Umschau 6:27. Jan. 1951. 41.8 T445

29753 BRADLEY, O. C. The structure of the fowl, rev. by Tom Grahame. Ed. 3. Edinburgh, Oliver and Boyd, 1950. 128 p. 47 B72

29754 BRANDLY, C. A. Control of respiratory diseases. Canad. Poultry Rev. 75(2):37-38. Feb.1951. 47.8 C16

29755 BUGDEN, W. A. Worms in Bantams. 1. Bird World 7:422-424, 470-471. Sept.-Oct.1950. 413.8 B533

29756 BURKE, K. A., NYSTROM, R. F., and JOHNSON, B. C. The rôle of methionine as a methyl donor for choline synthesis in the chick. J. Biol. Chem. 188: 723-728. Ref. Feb.1951. 381 J824

29757 BUSHNELL, L. D., and ERWIN, L. E. Studies on Newcastle disease. IX-X. Kans. Acad. Sci. Trans. 53: 488-493. Dec.1950. 500 K13T

IX, Effect of Newcastle disease virus on the volume of chicken red blood cells; X, Effect of Newcastle disease virus on the fragility of chicken red blood cells.

29758 CARIDROIT, F., and VOLOSS, C. Le conditionnement des papilles cloacales chez le coq et la poule domestiques. J. de Physiol. 42:562-564. 1950. 447.8 J823

29759 CASSAMAGNAGHI, A. (HIJO). Tuberculosis en palomas coexistiendo con una blastomicosis del aparato digestivo. Rev. de Med. Vet. [Montevideo] 4:925-928. Sept./Dec.1949. 41.8 R327

29760 CHAPMAN, L. T. Canada aims to get rid of Newcastle disease. Family Herald & Wk. Star 82(3):3, 13. Jan.18,1951. 7 F21

29761 CLEGG, R. E., and MUELLER, C. D. Calcium metabolism during Newcastle disease. Poultry Sci. 30: 157-158. Jan.1951. 47.8 Am33P

Effect on egg production.

29762 COMÍNS MARTÍNEZ, R. La peste aviar. Valencia Avfc. 7(5):26-27. June 1950. 47.8 V23

Treatment.

29763 DALLING, T. Help fight fowl pest—your orders. Poultry Farmer [London] 124(3206):10-11. Jan.12,1951. 47.8 F312

29764 DARCEL, C. L. Counting erythrocytes and leucocytes in fowl blood. Stain Technol. 2:57-59. Jan. 1951. 422.8 St1

29765 DICKINSON, E. M., BABCOCK, W. E., and OSEBOLD, J. W. Coccidial immunity studies in chickens. I. Poultry Sci. 30:76-80. Jan.1951. 47.8 Am33P

Inoculation with Elmeria.

29766 DOBSON, N. Fowl pox. Accredited Poultry Breeders' Fed. Eng. & Wales. News Serv. 22:25-26. Winter 1950. 47.8 Ac2

29767 DOLL, E. R., MCCOLLUM, W. H., and WALLACE, M. E. The effect of virus quantity and dilution procedure upon the hemagglutination inhibition test for Newcastle disease diagnosis. Poultry Sci. 30:67-69. Jan.1951. 47.8 Am33P

29768 DUBEDOUT, C. L'hygiène au poulailleur de ponte. Bétail & Basse-Cour 5(spec. no.):53,55. 1950. 49 B462

29769 ENGELMANN, C. Über den geschmackssinn des hühners. X. Die beeinflussung der annahme fester futterstoffe durch veränderung ihres feuchtigkeitsgehaltes sowie ihrer temperatur. Z. f. Tierpsychol. 7:240-264. July 1950. 410 Z35

29770 FELSENFELD, O., and others. A study of the nature of brucellosis in chickens. Amer. J. Vet. Res. 12 (42):48-54. Jan.1951. 41.8 Am3A

V. M. Young, E. Loeffler, S. J. Ishihara, and W. F. Schroeder, joint authors.

29771 FLÜCKIGER, G. Der stand der geflügelpest in Europa. Geflügelhof 13:791-792. Dec.1,1950. 47.8 G276

29772 FREITAS, M. G., and HIPÓLITO, O. Helminthological notes on Gallus gallus domesticus in Minas Gerais. (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arq. 2:51-59. Ref. 1949. 41.9 M662

English summary.

29773 FREITAS, M. G. On a tapeworm [Raillietina bonini] from the domestic pigeon in Minas Gerais, Brazil (Cestoda - Davaineidae). (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arq. 2:61-62. 1949. 41.9 M662

English summary.

29774 GASSNER, F. X., and others. Failure of cockerel comb and testis development on sesame meal and its prevention by vitamin B12. Soc. Expt. Biol. & Med. Proc. 75:630-633. Dec.1950. 442.9 So1

A. R. Patton, H. S. Wilgus, and L. W. Charkey, joint authors.

29775 GILLES, D. C. Pullorum control shows progress over past 15 years. Fla. Poultry & Dairy J. 17:15, 19. Jan.1951. 47.8 F66

29776 GORDEUK, S. Broiler health chart. Broiler Growing 2(2):12. Feb.1951. 47.8 B782

For chicks.

29777 GORDON, R. F. Fowl pest: latest picture; two forms of the disease. Farmer & Stock-Breeder 3194:137-138. Jan.9,1951. 10 F228

29778 GORRIE, C. J. R. Vaccination against spirochaetosis in fowls. Austral. Vet. J. 26:308-315. Nov. 1950. 41.8 Au72

Includes discussion.



- 29779 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. New type of fowl pest; disease threatens the entire industry. *Poultry Field* 3(19):4-6. Feb.1,1951. 47.8 P8655
- 29780 HARVEY, J. R. Poultry hygiene means health. *Allot. & Gard.* 86:13. Dec.1950. 80 N217
- 29781 HAYS, F. A. Temperature and relative humidity in the incubation room and embryonic mortality. *Poultry Sci.* 30:151-152. Jan.1951. 47.8 Am33P
- 29782 HENRY, J. N. Vaccination against spirochaetosis in fowls. Some field observations. *Austral. Vet. J.* 26:301-307. Nov.1950. 41.8 Au72
- 29783 HERTER, R. Beitrag zur statistik der hühnerkrankheiten nebst einigen kritischen betrachtungen. *Tierärztl. Umschau* 6:22-24. Ref. Jan.1951. 41.8 T445
- 29784 HILBRICH, P. Die haarwurmkrankheit der hühner und ihre bekämpfung. *Deut. Wirtgeflügelzucht.* 3:26. Oct.21,1950. 47.8 D483  
Due to *Capillaria* spp.
- 29785 HUFF, C. G. Observations on the pre-erythrocytic stages of *Plasmodium relictum*, *Plasmodium cathemerium*, and *Plasmodium gallinaceum* in various birds. *J. Infect. Dis.* 88:17-26. Ref. Jan./Feb.1951. 448.8 J821
- 29786 HUGHES, D. L. Turkeys provide these disease problems. (Extr.) *Poultry World* 87:338. Dec.7,1950. 47.8 P8682
- 29787 INFANTE, F., ALCALDE, J., and ALGABA, R. Leucosis aviar.-Estudio preferente de la forma neuroinfomatósica. *B. de Zootecnia* 6:359-375. Ref. Nov.1, 1950. 41.9 Sol6
- 29788 JOHNSON, E. P., and GROSS, W. B. Vaccination against pneumoencephalitis (Newcastle disease) by atomization or nebulization with the B<sub>1</sub> virus. *Vet. Med.* 46:55-59. Feb.1951. 41.8 M69
- 29789 KENNARD, D. C., and CHAMBERLIN, V. D. Growth and mortality of chickens as affected by the floor litter. *Poultry Sci.* 30:47-54. Ref. Jan.1951. 47.8 Am33P
- 29790 LAMOUNIER, R. D., and HIPÓLITO, O. Avian tuberculosis in Minas Gerais (preliminary note). (In Portuguese.) *Esc. Super. de Vet. do Estado de Minas Gerais. Arq.* 2:33-39. 1949. 41.9 M662  
English summary.
- 29791 LUCAS, A. M. Lymphoid tissue and its relation to so-called normal lymphoid foci and to lymphomatosis. VI. A study of lymphoid areas in the pancreas of doves and pigeons. *Poultry Sci.* 30:116-124. Ref. Jan. 1951. 47.8 Am33P
- 29792 MARTINI, I., and KURJANA, R. Stylovaccination (wing-web puncture) against Newcastle disease in poultry in Indonesia, in the laboratory and in practice. (In Italian.) *Clin. Vet.* 73:257-262. Sept.1950. 41.8 C61  
French summary.
- 29793 MICHALSKI, J. V. Two glycogen fractions in tissues of the chick embryo. (Abs.) *Anat. Rec.* 108:617-618. Nov.1950. 447.8 An1
- 29794 MOORE, W. J., and WILLIAMS, J. C. Capons. *Tex. Agr. Col. Ext. C.* 285,7 p. Aug.1950. 275.29 T312C
- 29795 MOREHOUSE, N. F. Growth stimulants boost poultry flock's efficiency. *Poultry Supply Dealer* 28:16-17. Jan.1951. 47.8 B11  
Use of 3-nitro 4-hydroxyphenyl arsonic acid.
- 29796 MUSSEHL, F. E. Will moldy corn kill chicks? *Nulaid News* 28(8):16. Jan.1951. 47.8 N917
- 29797 NAGUIB, M. Transmission of tuberculosis to chicks through eggs of tuberculous hens. *Vet. Rec.* 62:813. Dec.23,1950. 41.8 V641
- 29798 NOBREGA, P., and BUENO, R. C. The influence of the temperature on the viability and virulence of *Pasteurella avicida*. (In Portuguese.) *Soc. Paul. de Med. Vet. B.* 8:189-194. June 1950. 41.9 Sol3  
English summary.
- 29799 OLVERA HERRERA, M. Terrible epizootia diezma las aves de corral. *Tierra [México]* 6:24-25,41. Jan.1951. 8 T445  
Newcastle disease.
- 29800 O'SULLIVAN, P. J., and SUTHERLAND, A. K. Coccidiosis in poultry. *N. Z. Poultry World* 13:306-307. Oct.1950. 47.8 N11
- 29801 PÉREZ, J. E., and GONZÁLEZ, L. M. Newcastle disease in Puerto Rico. *Amer. Vet. Med. Assoc. J.* 118:107. Feb.1951. 41.8 Am3
- 29802 PEST regulations—simplified guide to current restrictions. *Poultry World* 88:34-35,40. Jan.11,1951. 47.8 P8682  
Newcastle disease control in Great Britain.
- 29803 PETERSON, E. H., and HYMAS, T. A. Aureomycin in the therapy of blue comb disease in chickens. *Poultry Sci.* 30:156-157. Jan.1951. 47.8 Am33P
- 29804 POMEROY, B. S. Vaccination of the breeder flock. *Minn. Gobbles* 1951:7. Jan.1951. 47.38 M66
- 29805 POWELL-OWEN, W. Summer colds—winter wheezes. *Poultry World* 87:387. Dec.14,1950. 47.8 P8682
- 29806 PRIER, J. E. Experimental immunization of chickens with combined whole embryo Newcastle and fowl pox vaccines. *Vet. Med.* 46:103-104. Mar.1951. 41.8 M69
- 29807 RAI, H., and BERI, S. P. Heat stroke in poultry. *Indian Farming* 11:122-123. Mar.1950. 22 In283
- 29808 RAMASWAMY, A. S., RAO, R. R., and DE, N. N. Studies on the anaemia in chicks infected with *Plasmodium* gallinaceum. *Indian Acad. Sci. Proc. Sect. B* 32:126-132. Ref. Sept.1950. 513 In25B
- 29809 REAGAN, R. L., SMITH, E. J., and BRUECKNER, A. L. Electron micrographs of Newcastle disease virus propagated in the cave bat (*Myotis lucifugus*). *J. Bact.* 61:37-40. Jan.1951. 448.3 J82
- 29810 REAGAN, R. L., and BRUECKNER, A. L. Morphologic observations by electron microscopy of the monkey-adapted Newcastle disease virus after culture in chicken embryos. *Amer. J. Vet. Res.* 12(42):55-57. Jan.1951. 41.8 Am3A
- 29811 REAGAN, R. L., BRUECKNER, A. L., and DELAPLANE, J. P. Morphological observations by electron microscopy of the virus (Tucker strain) of a chronic respiratory disease in chickens. *Poultry Sci.* 30:113-115. Jan.1951. 47.8 Am33P
- 29812 RICHTER, J. On the preparation of vaccines against fowl pox and fowl diphtheria, grown on incubated eggs. (In Dutch.) *Tijdschr. v. Diergeneesk.* 75:913-917. Nov.1950. 41.8 T431
- 29813 RIEDEL, B. B. Ascarid infections in broilers raised on dirt and concrete floors. *Poultry Sci.* 30:18-20. Jan.1951. 47.8 Am33P  
*Ascaridia galli*.
- 29814 RÖGER, W. Die verwendung von "kapaunetten" in der geflügelmast. *Deut. Wirtgeflügelzucht.* 3:50-51,64. Nov.4-11,1950. 47.8 D483
- 29815 RÖHNER, G. Erfolgreiche behandlung von pocken-diphtherie und ansteckendem schnupfen der hühner. *Kleintierzüchter Tierbörse* 4(48):6. Nov.1,1950. 49 K672
- 29816 SALZGEBER, B. Stérilisation et intersexualité obtenues chez l'embryon de poulet par irradiation aux rayons X (mémoire préliminaire). *B. Biol. de la France et de la Belg.* 84:225-233. Ref. Third Q.1950. 473 B87
- 29817 SAN MIGUEL, J. Neumoencefalitis. *Chile Avic.* 11:6307-6309. Oct./Nov.1950. 47.8 C43
- 29818 SAUNDERS, J. W., JR. An analysis of the spatial distribution, tract specificity, and orientation of feather germs in the humeral tract of the chick wing. (Abs.) *Anat. Rec.* 108:520-521. Nov.1950. 447.8 An1
- 29819 SCHRIER, J., and HAMILTON, H. L. The origin of the parathyroid and thymus glands of the chick as revealed by marking experiments. (Abs.) *Anat. Rec.* 108:588. Nov.1950. 447.8 An1
- 29820 SINHA, K. C., and DATTA, S. Antigenic property of irradiated Newcastle (Ranikhet) disease virus. *Cur. Sci.* 19:344. Nov.1950. 475 Sci23
- 29821 SINHA, K. C., and DATTA, S. Effect of reducing agents on the virus of Newcastle (Ranikhet) disease. 1. Ascorbic acid. 2. Cysteine hydrochloride. *Cur. Sci.* 19:343-344. Nov.1950. 475 Sci23
- 29822 SLINGER, S. J., MOTZOK, I., and PEPPER, W. F. The effect of salt, manganese and A.P.F. supplements on growth and bone formation in poult. *Poultry Sci.* 30:153-156. Jan.1951. 47.8 Am33P
- 29823 SOLIMAN, K. N., and ROLLINSON, D. H. L. Mycotic infection of the skin of the turkey. *Vet. Rec.* 63:20-24. Ref. Jan.13,1951. 41.8 V641  
Due to *Streptothrix*.
- 29824 STACEY, C. G. Chick losses and adult mortality. *Poultry World* 88:77. Jan.25,1951. 47.8 P8682
- 29825 THOMPSON, C. H., JR. The development of Newcastle disease vaccines. *Poultry Sci.* 30:73-75. Jan.1951. 47.8 Am33P



29826 TODD, A. C., and HANSEN, M. F. The economic import of host resistance to helminth infection. *Amer. J. Vet. Res.* 12(42):58-64. Ref. Jan.1951. 41.8 Am3A

Experiments with New Hampshire chicks and *Ascaridia galli*.

29827 TRENCHI, H. La importancia de la sanidad en la explotación de las aves. III-V. Uruguay. Min. de Ganad. y Agr. B. Inform. 346:16;347:4;348:4. Nov.9-23,1950. 9.9 G15B

29828 VAN ROEKEL, H. Progress in pullorum disease control. M. S. C. Veterinarian 11:88-92. Winter 1951. 41.8 M582

29829 VAN ROEKEL, H. Pullorum disease control and eradication. Iowa State Col. Vet. 13:19-20. 1951. 41.8 V6425

29830 VILLENEUVE, P. Si la maladie décline votre poulailler, examinez votre "conscience hygiénique." B. des Agr. 47:14-15. Jan.1951. 7 B872

29831 WASHINGTON STATE COLLEGE. POULTRY COUNCIL. Turkey problem chart with suggestions for prevention and treatment. Revised December, 1950. Turkey World 26:18-19. Jan.1951. 47.38 T84

29832 WILLIAMS, J. E. Use of the spot test in the diagnosis of pullorum disease. Poultry Sci. 30:125-131. Jan.1951. 47.8 Am33P

29833 ZARROW, M. X., and ZARROW, I. G. Astorbic acid in the adrenal gland of the duck. (Abs.) Anat. Rec. 108:600-601. Nov.1950. 447.8 An1

#### Miscellaneous

29834 ARCHES, M. D'. Les pigeons a la ferme. *Monit. Agr.* 3(140):4. Dec.17,1950. 14 M744

Care.

29835 BARCELO GARCIA DE PAREDES, A. La selección fisiológica de ponedoras en avicultura. Balearic Isl. Diputación Prov. B. de Agr. 73:4-5. Oct.1950. 15 B19

29836 BEER, A. Halte die hühner bei ungünstigem wetter eingeschlossen. Geflügelhof 13:792. Dec.1,1950. 47.8 G276

29837 BEJACH, S. Faking and fitting. Poultry Press 37(6):5. Jan.18,1951. 47.8 P8643

Showing poultry.

29838 BENOÎT, C. E. L'élevage du dindon progressa. *Avicult. Québécois* 6(12):23. Dec.1950. 47.8 Av55

29839 BENOÎT, C. E. Parlons de dindons: de ceux qui sont partis et de ceux qui restent. *Avicult. Québécois* 6:23-24. Jan.1951. 47.8 Av55

Situation in Canada, and care.

29840 BESENBECK, A. Beteiligung eines hahnes am legeggeschäft der henne. Z. f. Tierpsychol. 7:287-293. July 1950. 410 Z35

29841 BLACKWELL, H. L. What is the key to cheap production? *Mod. Poultry Keeping* 63:634-635. Dec.27, 1950. 47.8 Eg3

British poultry industry.

29842 BOUDOL, A. La basse-cour fermière. Bétail & Basse-Cour 5(spec. no.):6-7,9,11-12. 1950. 49 B462

29843 CARPENTER, D. J. Science and practice in stock improvement. Poultry World 87:415. Dec.28,1950. 47.8 P8682

Poultry Stock Improvement Plan of Great Britain.

29844 CASA PACHECO, MARQUES DE. Con miras a la VII Asamblea Nacional de Avicultores. Valencia Avic. 7(8):15-16. Sept.1950. 47.8 V23

29845 CASA PACHECO, MARQUES DE. La VI Asamblea [Nacional] de Avicultores. Valencia Avic. 7(6):15-16. July 1950. 47.8 V23

29846 CECIL, L. Small man can progeny test. *Mod. Poultry Keeping* 64:7. Jan.3,1951. 47.8 Eg3

29847 CHAPMAN, E. F. Poultry on the farm—choice of systems. Poultry Indus. [Milford] 16:58-59. Dec.28, 1950. 47.8 P8644

29848 COLLIAS, N. E. The socialization of chicks. (Abs.) Anat. Rec. 108:553. Nov.1950. 447.8 An1

29849 COMBERG, E. Gute wintervorbereitungen im hühnerstall sichern den erfolg. Deut. Wirtgeflügelzucht. 3:61-63. Nov.11,1950. 47.8 D483

29850 COOPER, M. M. Importance of progeny testing. Poultry [London] 107:478,493. Dec.12-19,1950. 47.8 P869

29851 DAVIN, J. A. Let's remodel our pigeon show. *Amer. Pigeon J.* 40:42-44. Feb.1951. 47.8 Am35

29852 DREIBELBIS, E. B. Geese, a farm bonanza. *Kans. Farmer* 88:8. Jan.6,1951. 6 K13

29853 DUPARQUET, P. Aviculteur? Le plus passionnant des métiers! Vie à la Campagne 40(483):5. Jan. 1951. 80 V67

29854 ELLIS, F. E. Confinement rearing; revived interest is being shown in raising pullets on wire in Canada and the United States. *Family Herald & Wk. Star* 82(3):5,17. Jan.18,1951. 7 F21

29855 ESCORSA, R. La pelea de gallos y los circos gallísticos. *Cult. Mod.* 33:417-418. Nov.1950. 15 C89

Includes care.

29856 FERGUSON, A. E. Brooding is simple when you follow the rules. *Canad. Poultry Rev.* 75(2):9-10. Feb.1951. 47.8 C16

29857 FISHILEV, I. A. Experiment in raising poultry at low temperatures. (In Russian.) *Sovet. Zootekh.* 5(9):80-82. Sept.1950. 49 So822

29858 FLEURY, F. Elevage en réclusion et litière permanente. *Avicult. Québécois* 6(12):13. Dec.1950. 47.8 Av55

29859 FOSTER, J. C., JR. Speed, stamina, brains and racing temperament. *Amer. Racing Pigeon News* 67:1-3. Jan.1951. 47.8 H75

29860 FROBOESE, V. Neuere erkenntnisse in der brutmethodik. *Deut. Wirtgeflügelzucht.* 3:141. Dec.23, 1950. 47.8 D483

Chicks and geese.

29861 FROOME, S. Geese. *West. Austral. Dept. Agr. J.* (ser.2)27:239-252. Sept.1950. 23 W52J

29862 GARTLEY, K. M. Managing the turkey breeding flock. *Family Herald & Wk. Star* 82(3):6,10. Jan.18, 1951. 7 F21

29863 GILMAN, W. Tackling the big waste in hatching eggs. *Hatchery & Feed* 25(2):62-64. Feb.1951. 47.8 H28

29864 GIVE your poults the right start. *Turkey World* 26:14,17,51-53. Jan.1951. 47.38 T84

29865 GNAEDIGNER, L. A. Production hivernale des oeufs. *Avicult. Québécois* 6:11. Jan.1951. 47.8 Av55

29866 HALE, M. Deep litter practice. 1-3. *Poultry World* 87:316-317,341-342,369. Nov.30-Dec.14,1950. 47.8 P8682

29867 HALE, M. You must count them before they arrive and prepare adequate accomodation for the number of chicks you expect to house well in advance. *Poultry World* 88:76. Jan.25,1951. 47.8 P8682

29868 HARARI, S. Poultry topics. (In Hebrew.) *Hassadeh* 30:709. Sept.1950. 26 H27

29869 HARO, M. Hay secretos en la avicultura? *Asoc. Gen. de Agr. B.* 285:3,6. Dec.30,1950. 8 As52

29870 HARPER, J. A. Managing turkey breeding flocks. *Norbest Turkey News* 15(7):1,3,5. Jan.1951. 47.38 N75

29871 HAWKEY, K. J. G. Commercial stock on exhibition; a judging experience. *Poultry Indus. [Milford]* 16:45. Dec.28,1950. 47.8 P8644

29872 HAYS, F. A. Further studies on environmental and hereditary factors affecting winter pause incidence and duration. *Poultry Sci.* 30:100-105. Ref. Jan.1951. 47.8 Am33P

29873 HAYS, F. A., and SPEAR, E. W. Losses in egg weight during incubation associated with hatchability. *Poultry Sci.* 30:106-107. Jan.1951. 47.8 Am33P

29874 HAYS, F. A. Sex ratio in chicks at eight weeks and viability. *Poultry Sci.* 30:98-99. Jan.1951. 47.8 Am33P

29875 HERRICK, L. W., JR. North Carolina points to new trends in turkey raising. *Soeast. Poultryman* 4:24-25,123-126. Jan.1951. 47.8 So872

Also in *Va. Poultryman* 5:24-25,123-126. Jan.1951. 47.8 V812

29876 HICKS, J. S. Washing a bird for exhibition. *Poultry [London]* 107:522;108:16,35. Dec.26,1950-Jan.9, 1951. 47.8 P869

29877 HICKS, S. First steps for novice fanciers. 6. *Poultry [London]* 107:423. Nov.21,1950. 47.8 P869

Poultry showing.

29878 HITCHCOCK, H. B. Aerial observations of homing pigeons. (Abs.) *Anat. Rec.* 108:571-572. Nov. 1950. 447.8 An1

29879 HOEKSTRA, P. Poultry husbandry in Indonesia. *World's Poultry Sci. J.* 6:298-301. Oct./Dec.1950. 47.8 W89

Includes ducks.



- 29880 HOLLE MÜLLER, H. V. Calendario de labores para el avicultor. Santiago de Chile, Cultura, 1950. 61 p. 47 H72
- 29881 HUGHES, C. J. Why not try ducks? Farmers Wk. [London] 34(4):61. Jan. 26, 1951. 10 F2226
- 29882 HURD, L. M. Poultry farming in New York; new methods that save time and labor. Amer. Poultry J. 81(12):6, 35-37. Dec. 1950. 47.8 Am32
- 29883 HUTCHINGS, R. S. Can profitable laying life be extended? Poultry [London] 107:518. Dec. 26, 1950. 47.8 P869
- 29884 HUTT, F. B. Some poultry flocks in Britain. Family Herald & Wk. Star 82(3):8. Jan. 18, 1951. 7 F21
- 29885 INSKO, W. M., JR. Can we increase hatchability? Soeast. Poultryman 4:26, 97-98. Jan. 1951. 47.8 So872
- Also in Va. Poultryman 5:26, 97-98. Jan. 1951. 47.8 V812
- 29886 IRWIN, M. R. Trends in broiler raising in Georgia. Amer. Poultry J. 82:29, 37-39. Jan. 1951. 47.8 Am32
- 29887 IRWIN, M. R. Trends in broiler raising in Texas. Amer. Poultry J. 81(12):25, 30-33. Dec. 1950. 47.8 Am32
- 29888 JARRETT, G. Twenty-five years' progress; how poultry have played their part in building-up production on a Devon farm. Farmer & Stock-Breeder 64:3377. Dec. 26, 1950. 10 F228
- 29889 JOHNSTON, T. E. Early birds catch the dollars. Org. Farmer 2, i.e. 3:29-31. Jan. 1951. 57.8 Or3 Chicks.
- 29890 KASCO MILLS. Kasco poultry guide, by Victor Heiman. Ed. 3. Wavary, N. Y., 1950. 256 p. 47 K15
- 29891 KEARL, C. D. Commercial poultry-farm management in New York State, 1946-47. N. Y. (Cornell) Agr. Expt. Sta. B. 864, 22 p. Oct. 1950. 100 N48C
- 29892 KELLER, H. The poultry clubs; many reasons why poultry breeders should be members of certain organizations. Poultry Press 37(6):6, 11. Jan. 18, 1951. 47.8 P8643
- 29893 KELLER, J. Ich bin anderer meinung. Geflügelhof 13:792. Dec. 1, 1950. 47.8 G276
- 29894 KENNARD, D. C. Built-up litter facts surprise. Poultry Herald 63(2):4, 6-7. Feb. 1951. 47.8 P862
- Notes from an address.
- 29895 KNOWLES, T. Poultry prospects for 1951. Poultry Field 3(19):18-19. Feb. 1, 1951. 47.8 P8655
- Chiefly seasonal incubation and diseases.
- 29896 KUHNEMUNDT, K. Landjugend-wettbewerbe, ein weg zur förderung der bäuerlichen geflügelhaltung. Deut. Wirtgeflügelzucht. 3:49-50. Nov. 5, 1950. 47.8 D483
- 29897 LAYCOCK, G. Mechanization hits the hen. Amer. Poultryman 13(9):18-19. Jan. 1951. 47.8 So86
- Battery system.  
Reprinted from Steelways.
- 29898 LEROY, A. M. Le présent et l'avenir de l'aviculture française. Bétail & Basse-Cour 5(spec. no.): 4-5. 1950. 49 B462
- 29899 LIVET, L. Précautions d'hiver chez les poules. Paysan Franç. 26(397):10-11. Jan. 1951. 14 P29
- 29900 LLOYD, E. A. Improvement of dual purpose poultry. Agr. Inst. Rev. 6:11-13. Jan. 1951. 7 Ag8
- 29901 LOMAX, E. B. Are you a B. Litt or D. Litt? Poultry World 87:337. Dec. 7, 1950. 47.8 P8682
- Prof. D. C. Kennard's built-up litter experiments.
- 29902 MCARDLE, A. A. Caring for young stock from month old stage to laying. So. Austral. Dept. Agr. J. 54: 78-79. Sept. 1950. 23 So84
- 29903 MANN, D. H. Turkey profits rest on management. Utah Farmer 71:75, 91. Feb. 1, 1951. 6 D45
- 29904 MASTERSON, F. H. More profit from better chicks; profitable flocks result from chicks that are bred for high egg or meat production. Poultry Tribune 57(2): 14, 24. Feb. 1951. 47.8 P8642
- 29905 MATTHEWS, P. Deep litter and its requirements. Poultry [London] 107:498, 518; 108:11. Dec. 19, 1950-Jan. 2, 1951. 47.8 P869
- 29906 MAXON, N. T. State fairs and fanciers. Amer. Poultryman 13(9):13. Jan. 1951. 47.8 So86
- Showing poultry.
- 29907 MILSTEAD, E. Suggestions in showing pigeons. Amer. Pigeon J. 40:10-11. Jan. 1951. 47.8 Am35
- 29908 MOORE, A. C. Our target for 1951 is increased production. Poultry [London] 107:516. Dec. 26, 1950. 47.8 P869
- 29909 MOORE, A. C. Revival of table poultry production would benefit the whole industry. Poultry [London] 107:498. Dec. 19, 1950. 47.8 P869
- 29910 MOORE, A. C. This year may prove a momentous one. Poultry [London] 108:8. Jan. 2, 1951. 47.8 P869
- 29911 MOORE, A. C. Those surplus chicks are no bargain. Poultry [London] 108:28. Jan. 9, 1951. 47.8 P869
- 29912 MOORE, A. C. You can't be too careful with your hatching eggs. Poultry [London] 108:88. Jan. 30, 1951. 47.8 P869
- 29913 NAETHER, C. Why keep pigeons? 2.3. All-Pets Mag. 21(12):68, 71. Dec. 1950. 48.8 AL5
- 29914 NESTMANN. Vorsorge treffen für die geflügelhaltung im winter. Kleintierzüchter Tierbörse 4 (48):4. Nov. 1, 1950. 49 K672
- 29915 NEVILLE, A. Simple system for winter eggs. Poultry [London] 108:14. Jan. 2, 1951. 47.8 P869
- 29916 PENNY, J. G. The year 1950 in retrospect. Mod. Poultry Keeping 63:638. Dec. 27, 1950. 47.8 Eg3
- Poultry in Scotland.
- 29917 PERRAULT, S. Ne grossissez pas les rangs des mécontents de l'aviculture: réussissez vos couvées de printemps. Terre d'Oc 33:17-23. Jan. 1951. 14 Ar5
- 29918 PONSIGNON, A. Soignez les poussins que vous recevez. Vie à la Campagne 40(483):22. Jan. 1951. 80 V67
- 29919 PONSIGNON, M. Ce que doit être l'aviculture fermière. Vie à la Campagne 40(483):32-33. Jan. 1951. 80 V67
- 29920 PONSIGNON, M. Comment conduire vos incubations. Vie à la Campagne 40(483):21. Jan. 1951. 80 V67
- 29921 POULTRY TRIBUNE. Your 1951 brooding guide. Poultry Tribune 57(2):10. Feb. 1951. 47.8 P8642
- 29922 POWELL-OWEN, W. Know the families; grouping and easy recognition in the run achieved by colour-ringing. Poultry World 87:289. Nov. 23, 1950. 47.8 P8682
- 29923 PRATT, J. J. Selecting standard-bred poultry. Amer. Poultryman 13(10):8, 11. Feb. 1951. 47.8 So86
- 29924 RAPLEY, R. Three systems combined for winter production. Poultry [London] 108:12. Jan. 2, 1951. 47.8 P869
- 29925 RITTERSHAUS, W. Gedanken zur hühnerleisungsprüfung. Kärntner Bauer 100:418-420. Nov. 15, 1950. 19 K14
- 29926 RIZZO, C. A. Orientation sense in the Carrier Pigeon. (In Portuguese.) Fauna [São Paulo] 9(9):20-21. Sept. 1950. 410 F272
- 29927 ROY, J. B. Mes poussins s'en viennent! Je me prépare. Avicult. Québécois 6:9. Jan. 1951. 47.8 Av55
- 29928 ROY, J. B. Un moyen pratique d'augmenter les profits en aviculture. Avicult. Québécois 6:5, 9. Jan. 1951. 47.8 Av55
- Early-hatched chicks.
- 29929 RUSSO, S. Sane handling helps. Amer. Racing Pigeon News 67:28-29. Jan. 1951. 47.8 H75
- 29930 SAMAT, M. Les avantages des vieilles littères. Réveil Agr. 60(2594):1. Jan. 1, 1951. 14 R322
- Poultry.
- 29931 SCHEIDNIG, C. Was ist den verschiedenen haustierarten von ihrer früheren, natürlichen umwelt noch geblieben? Geflügelhof 13:719-720. Nov. 3, 1950. 47.8 G276
- Chiefly on poultry care.
- 29932 SCRUGGS, C. G. More chicken with less work. Prog. Farmer, Tex. Ed. 66:16, 90. Jan. 1951. 6 T311
- Includes built-up litter, automatic feeders and fluorescent lamps.
- 29933 SHAW, J. Setting-up the incubators. Poultry World 87:288. Nov. 23, 1950. 47.8 P8682
- Records.
- 29934 SHAW, J. Wingbanding is a time-taking task. Poultry World 87:368. Dec. 14, 1950. 47.8 P8682
- 29935 SMETNEV, S. I., and USHAKOV, A. A. Rabota na pitsevodcheskoj ferme [Work on a poultry farm]. Ed. 6, enl. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 167 p. (Bibliotshka Kolkhoznogo Zhivotnovoda) 47 Sm3R



- 29936 SONGCUAN, M. S. My experiences in rearing chicks. *Agr. & Indus. Life* 12(12):9. Dec.1950. 25 Ag8
- 29937 SPIEHS, H. J. Alte meinungen über das federvieh. *Osterr. Kleintierzüchter* 1950:852. (Concl.) Nov.1950. 49 Os7
- 29938 STACEY, C. G. The deep litter system. *Poultry Field* 3(19):20-22. Feb.1,1951. 47.8 P8655
- 29939 STACEY, C. G. Winter eggs and annual output. Are they related? *Poultry World* 87:370. Dec.14,1950. 47.8 P8682
- 29940 TAGGART, J. I. Latest information on exploding eggs. *Fla. Poultry & Dairy J.* 17:16-17. Jan.1951. 47.8 F66
- In incubators.
- 29941 THORNBUR, C. Intensively-housed breeding stock. *Poultry [London]* 108:90. Jan.30,1951. 47.8 P869
- 29942 THUR, K. Meine gedanken und eindrücke von der "Nationalen" in Basel. *Geflügelhof* 13:798. Dec.1, 1950. 47.8 G276
- Poultry show.
- 29943 TOMEY, A. A bird in the cage. *Farmers Wk. [London]* 34(3):61. Jan.19,1951. 10 F2226
- Battery system.
- 29944 TRETIAKOV, N. P. Controlled raising of chicks under conditions of low, changing temperatures. (In Russian.) *Sovet. Zootekh.* 5(10):45-51. Ref. Oct. 1950. 49 So822
- 29945 TURKEY WORLD. Guide for successful brooding. *Turkey World* 26(2):30. Feb.1951. 47.38 T84
- 29946 U. S. BUR. OF ANIMAL INDUSTRY. The National Poultry Improvement Plan. U. S. D. A. Misc. P. 300, rev., 36 p. June 1950. 1 Ag84M
- 29947 VAITSMAN, J. Cannibalism and other vices of poultry. (In Portuguese.) *Seleç. Agr.* 5(56):43-44. Dec. 1950. 9.2 Se4
- 29948 WATERSTON, D. L. Two farmers are poultry specialists. *Family Herald & Wk. Star* 82(3):7,15. Jan. 18,1951. 7 F21
- Chiefly management.
- 29949 WHITFIELD, W. R. All-pullet flock takes over; pullets have changed Iowa's poultry industry. *Poultry Tribune* 57(2):46,48. Feb.1951. 47.8 P8642
- 29950 WHITTLE, T. E. Progeny testing in practice. *Poultry Indus. [Milford]* 16(185):9-10. Nov.30,1950. 47.8 P8644
- 29951 WILSON, E. 14-point New Year resolution plan. *Poultry [London]* 108:50. Jan.16,1951. 47.8 P869
- Poultry care.
- 29952 WILTZER, A. Ninth World's Poultry Congress. *World's Poultry Sci. J.* 6:257-259. Oct./Dec.1950. 47.8 W89
- 29953 WINNER, E. B. "Poultry days"—a spot where hatcherymen and feed dealers can cooperate with the extension service to do a job of education and good will in their trade area. *Hatchery & Feed* 25(2):10,38. Feb. 1951. 47.8 H28
- 29954 WIRTH, K. Aufzucht der küken in batterien bis zum 8-wochen-alter. *Deut. Wirtgeflügelzucht.* 3:44, 52-53. Oct.28-Nov.4,1950. 47.8 D483
- 29955 WORLD'S POULTRY SCIENCE ASSOCIATION. COMMITTEE ON EGG LAYING TESTS. Basic rules governing egg laying tests throughout the world. *World's Poultry Sci. J.* 6:292-297. Oct./Dec.1950. 47.8 W89

## RABBITS

## Breeds and Breeding

- 29956 ARAKELIAN, M. A. On the biological role of semen as a mentor in animals. (In Russian.) *Sovet. Zootekh.* 5(9):68-79. Sept.1950. 49 So822
- Rabbit genetics.
- 29957 CARTER, W. Some facts about Angoras. *Fur Trade J. Canada* 28(5):42. Jan.1951. 410 F965
- Rabbits.
- 29958 COLEMAN, G. Astrological selection of breeding stock. *Calif. Rabbits Mag.* 14(7):5. Feb.1951. 40.28 Sa5
- 29959 HEINZE, E. Unsere Hermelinzucht in der gegenwart. *Kleintierzüchter Tierbörse* 4(48):8. Nov.1, 1950. 49 K672
- 29960 HOLMES, J. Fairies of the fancy; a plea for greater support for the Angora. *Fur & Feather* 113:913. Dec.28,1950. 49 F96
- 29961 HOWDEN, A. S. Tans of 1950; a review. *Fur & Feather* 113:917. Dec.28,1950. 49 F96

- 29962 MARTIN, J. H. Hares in America. *Amer. Small Stock Farmer* 35(4):10,20-21. Jan.1951. 48.8 J82
- 29963 SHIRREFF, MRS. W. H. Wool plus meat. *Small Stock Mag.* 35(2):8. Feb.1951. 48.8 P442
- Angoras.
- 29964 THOMPSON, H. G. Away with dull uniformity in Chinchilla Gigantas. *Fur & Feather* 113:917. Dec.28, 1950. 49 F96

## Feeds and Feeding

- 29965 DÖSCHER, A. Der kalk im futterplan des kaninchenzüchters. *Kleintierzüchter Tierbörse* 4(48):7. Nov.1,1950. 49 K672
- 29966 GAUDY, C. A. Los conejos necesitan adecuado alimento. *Chacra* 21(242):56. Jan.1951. 9 C34
- 29967 TEMPLETON, G. S. Feeding and managing does for production. *Amer. Rabbit J.* 21:3-5. Jan.1951. 40.28 Am3
- 29968 TEMPLETON, G. S. Yeast culture in rabbit rations. *Calif. Rabbits Mag.* 14(7):8. Feb.1951. 40.28 Sa5
- 29969 WILSON, W. K. Garden food for rabbits. *Allot. & Gard.* 86:11,13. Dec.1950. 80 N217

## Veterinary Medicine

- 29970 CRARY, D. D., and SAWIN, P. B. An ectopic pregnancy in the rabbit. (Abs.) *Anat. Rec.* 108:586. Nov.1950. 447.8 An1
- 29971 DAVIS, B. M. Notes from experience. *Calif. Rabbits Mag.* 14(7):7,18. Feb.1951. 40.28 Sa5
- Mange due to *Sarcoptes* (i.e. *Notoedres*) cuniculi.
- 29972 KVASNICKIJ, A. V. The experiments with the transplantation of egg-cells from one animal into the other. (In Czech.) *Ceskoslov. Akad. Zeměděl. Věst.* 24: 529-538. Dec.1950. 19.5 C332
- Rabbits.
- 29973 LATIMER, H. B., and SAWIN, P. B. Rabbit fetuses in the abdominal cavity. (Abs.) *Anat. Rec.* 108: 584-585. Nov.1950. 447.8 An1
- 29974 PANKOV, V. A. Disease of carnivorous animals in rabbits. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(3):67-68;(4):63-65. May/June-July/Aug. 1950. 49 K14
- Canine distemper(?) from fur-bearing animals.
- 29975 SANDAGE, C., BRANDT, N., and BIRKELAND, J. M. Erythrocyte destruction in tuberculous animals following tuberculin injection. *J. Infect. Dis.* 88:9-16. Ref. Jan./Feb.1951. 448.8 J821
- Tests with rabbits.
- 29976 SANDFORD, J. B. Control of coccidiosis is in your hands. *Fur & Feather* 114:50-51. Jan.25,1951. 49 F96
- Rabbits.
- 29977 SAWIN, P. B., and LATIMER, H. B. Rabbit fetuses in the abdominal cavity. (Abs.) *Anat. Rec.* 108: 585. Nov.1950. 447.8 An1
- 29978 VOLOSS-MIALHE, C. Rôle du sympathique dans la pigmentation du lapin Himalaya. *Soc. de Biol. Compt. Rend.* 144:1346-1348. Oct.1950. 442.9 P21
- 29979 WRIGHT, G. G., and SLEIN, J. B. Studies on immunity in anthrax. I. Variation in the serum T-agglutinin during anthrax infection in the rabbit. *J. Expt. Med.* 93:99-106. Ref. Feb.1,1951. 448.8 J822

## Miscellaneous

- 29980 ARAGÓN LEIVA, P. Cría y explotación del conejo doméstico. *Tierra [México]* 6:26-28,63. Jan.1951. 8 T445
- 29981 BIERI, A. Kaninchenzucht. *Bern*, 1950. 163 p. (Landfreundbücherei, 3) 40.2 B47
- 29982 MARTIN DE FRUTOS, J. Cunicultura; su organización, economía, higiene y patología. *Valencia Avic.* 7(5):29-30;(6):23-25. June-July 1950. 47.8 V23
- 29983 MOSCOW. NAUCHNO-ISSLEDOVATEL'SKIY INSTITUT KROLIKOVODSTVA. Spravochnik po krolikovodstvu [Reference book on rabbit raising]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 172 p. 40.2 M858
- 29984 SANDFORD, J. C. Why not performance tests for rabbits in Britain? *Fur & Feather* 114(3159):2. Jan.4,1951. 49 F96
- 29985 SCHULTZE, O. F. The importance of type in meat rabbits. *Small Stock Mag.* 35(2):12-13. Feb.1951. 48.8 P442



29986 SHIRREFF, MRS. W. H. Shearing for profit. *Angora Rabbit Mag.* 6(3):2. Dec.1950/Jan.1951. 40.28 An42

## SHEEP AND GOATS

### Breeds and Breeding

- 29987 ABUL'Khanov, F. KH. Effect of artificial insemination with semen mixture of two rams on fertility of sheep and vitality of lambs. (In Russian.) *Sof'sialist. Zhivotnovod.* 12(8):84-86. Aug.1950. 49 So71
- 29988 ASLANIAN, M. M. Transportation of semen of Askaniian fine-wooled breed rams. (In Russian.) *Sof'sialist. Zhivotnovod.* 12(8):78-83. Aug.1950. 49 So71
- 29989 BAL'MONT, V. A. Pedigree [breeding] work with a flock of sheep. (In Russian.) *Sof'sialist. Zhivotnovod.* 12(8):49-66. Aug.1950. 49 So71
- 29990 BARTON, R. A. A note on sex ratios in a Romney Marsh stud flock. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 31(3):24. Oct.1949. 514 N48A
- 29991 BECKER, D. Breeding sheep for mutton. (In Hebrew.) *Hassadeh* 30:710-713. (Concl.) Sept.1950. 26 H27
- 29992 BOISGROLLIER, G. DE. La Charmoise. *Mouton* 5:85-86. Oct.1950. 45.8 M86
- 29993 BRIGIS, O. I. Effect of closely-related mating of Karakul sheep on the heredity and vitality of their progeny. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(4):17-23. July/Aug.1950. 49 K14
- 29994 BUSURIN, IA. A. To prepare and conduct the mating campaign in sheep breeding in an organized manner. (In Russian.) *Sof'sialist. Zhivotnovod.* 12(8):72-74. Aug.1950. 49 So71
- 29995 CANADIAN SHEEP BREEDERS' ASSOCIATION. Canadian National record for sheep, v. 38. Owen Sound, Richardson, Bond & Wright, 1950. 435 p. 45.9 D71
- 29996 DORSET HORN SHEEP BREEDERS' ASSOCIATION. The flock book of Dorset Horn sheep, v. 59. Dorchester, Ling, 1950. 61 p. 45.9 D732
- 29997 GALINDO, A. Seleccíonemos la oveja. *Ceres [Valladolid]* 15(173):26-27. Nov.1, 1950. 15 C33
- 29998 HAGEDOORN, A. L. Better Karakul sheep easy to breed. *Farmer's Wk. [Bloemfontein]* 80:39, 41. Dec.20, 1950. 24 F225
- 29999 HART, D. S. Photoperiodicity in Suffolk sheep. *J. Agr. Sci. [London]* 40:143-149. Ref. Jan./Apr.1950. 10 H22
- 30000 HAYDON, G. Armour's double lamb crop experiment. *Natl. Wool Grower* 41:26-27. Jan.1951. 45.8 N21N
- 30001 KING, A., and KING, J. Report on world conference of Corriedale breeders. *Sheep & Goat Raiser* 31(4):16. Jan.1951. 45.8 Sh3
- 30002 KUZNETSOV, M. P. Improving the quality of the curl and the live weight of Karakul lambs. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(4):11-18. July/Aug.1950. 49 K14
- Sheep breeding policy.
- 30003 LAURANS, R. Le mouton Mérinos en France et dans le monde. *Mouton* 5:97-98. Nov.1950. 45.8 M86
- 30004 LOUW, D. J., and others. Relationship between Merino characteristics. *Farming So. Africa* 25:363-369. Nov.1950. 24 So842
- N. G. Wessels, F. J. Labuscagne, and D. F. Badenhorst, joint authors.
- 30005 MALIK, M. I. Improvement of Pakistan wool. *Co-op. & Mktg. Rev.* 4:311-316. Oct.1950. 280.28 C78243
- Improvement through breeding.
- 30006 MALIKOV, D. I. Effect of biological properties of ram's semen on productive characteristics [live weight and quality of wool] of the offspring. (In Russian.) *Sovet. Zootekh.* 5(10):40-44. Oct.1950. 49 So822
- 30007 NIKOL'SKIĬ, N. F. To conduct the mating of Karakul sheep on a high zootechnical level. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(4):8-11. July/Aug. 1950. 49 K14
- 30008 RADNABAZARON, B. Movable stations [tents] for the artificial insemination of sheep. (In Russian.) *Sof'sialist. Zhivotnovod.* 12(8):87-89. Aug.1950. 49 So71
- 30009 ROUX, L. L. Sheep selection for adaptability. *Woolboer* 39:5-6. Oct.1950. 45.8 W83
- 30010 SALERNO, A. Disposition to meat production of sheep of the 'Sopravissana' breed. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:1099-1113. 1950. 16 An76
- English summary.
- 30011 SANCHEZ UCEDA, J. Ganado Karakul y sus posibilidades de adaptación en la provincia de Granada. *B. de Zootecnia* 6:326-334. Oct.1, 1950. 41.9 So16
- 30012 SANDISON, I. E. M. Blackface sheep in Shetland; twenty-six years of improvement. *Scot. Agr.* 30:146-148. Winter 1950/51. 10 Sco82So
- 30013 SANNIKOV, M. I. Results of improving Soviet Merino sheep on the State pedigree breeding farms in Stavropol Territory. (In Russian.) *Sovet. Zootekh.* 5(10):29-39. Oct.1950. 49 So822
- 30014 SERVICE DES GENETEURS DE L'UNION OVINE DE FRANCE. Les grandes races ovines françaises: la Charmoise. *Mouton* 5:91-92. Oct.1950. 45.8 M86
- 30015 SHEV'KUN, IA. A. Utilization of highly-productive rams in fine-wool sheep breeding. (In Russian.) *Sof'sialist. Zhivotnovod.* 12(8):75-77. Aug.1950. 49 So71
- 30016 STONE, F. C. Sheep mating time. *Westralian Farmers' Co-op. Gaz.* 19:333-334. Nov.1950. 280.28 W522
- 30017 STUVEN, C. El Merino. *Campesino [Santiago]* 82(11):81-83. Nov.1950. 9.3 So12
- 30018 TANNIERE, G., and BOUCHE, P. Essai d'acclimatation de moutons Karakuls au Niger; résultats obtenus dans le croisement continu Karakuls x indigènes. *French West Africa. Insp. Gén. de l'Elevage. B. des Serv. de l'Elevage et des Indus. Anim.* 3:23-39. Jan./Mar. 1950. 41.9 F88B
- 30019 TAYLOR, J. Breeding vs. mating. *Oreg. Farmer* 74:3. Jan.4, 1951. 6 Or32
- With particular reference to goat breeding.
- 30020 WILSON, W. Hardy Herdwicks; the native sheep of the Lakeland mountains and probably the purest of British breeds. *Field* 196:1095-1096. Dec.23, 1950. 10 F45
- 30021 ZETTL, J. Wie beginnt man eine Karakulzucht. *Osterr. Kleintierzüchter* 1950:860. Nov.1950. 49 Os7

### Feeds and Feeding

- 30022 BLIN, H. La production de l'agneau "de 100 jours". *Mouton* 5:95. Oct.1950. 45.8 M86
- Feeding.
- 30023 COOK, C. W., and HARRIS, L. E. The nutritive content of the grazing sheep's diet on summer and winter ranges of Utah. *Utah. Agr. Expt. Sta. B.* 342, 66 p. Ref. Nov.1950. 100 Ut1
- 30024 DAVIES, G. M. The wintering of Welsh mountain ewe lambs. *Gt. Brit. Min. Agr. Agriculture* 57:379-383. Nov.1950. 10 G79J
- Feeding.
- 30025 LACEY, J. J. Step up the grain feeding. *Wool News* 16(6):9. Jan.1951. 280.28 W882
- For sheep.
- 30026 MICHAUX, A. Les substances fondamentales de la membrane cellulaire végétale au cours de la digestion chez la brebis. *Acad. des Sci. Compt. Rend.* 232:121-123. Jan.3, 1951. 505 P21
- 30027 REA, J. N., and MOULE, G. R. Observations on the management of sheep properties on the Central Highlands. 1. Sheep grazing on summer crops. *Queensland Agr. J.* 71:228-230. Oct.1, 1950. 23 Q33
- 30028 SEREBRIÁKOV, V. A., and TARAN, A. F. Effect of grazing on green barley on multiple births in Karakul sheep. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(4):72-74. July/Aug.1950. 49 K14
- 30029 TRUTER, G. J., and LOUW, J. G. The nutritive value of South African feeding stuffs. III. Digestible nutrients and metabolizable energy content of a mixture (1:1) of lucerne hay and yellow maize at different planes of intake for sheep. *Onderstepoort J. Vet. Sci. & Anim. Indus.* 24:57-66. Apr.1950. 41.8 On1

### Veterinary Medicine

- 30030 BERGH, M. Enterotoxaemia (pulpy kidney) in sheep. *Farming So. Africa* 25:352. Nov.1950. 24 So842
- 30031 BLAKLEY, R. L., and COOP, I. E. The metabolism and toxicity of cyanides and cyanogenetic glucosides in sheep. II. Detoxication of hydrocyanic acid. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 31(3):1-16. Ref. Oct.1949. 514 N48A
- 30032 BLIN, H. La pratique de la saignée chez les moutons. *Mouton* 5:99-100. Nov.1950. 45.8 M86
- 30033 BUILOV, S. V. Quality of curl of twin lambs in relation to their development during the uterine period. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(4):23-27. July/Aug.1950. 49 K14



- 30034 CHARITAT, P. Attention à l'indigestion gazeuse de mouton. *Rustica* 23:958,963-964. Nov.12, 1950. 14 R92
- 30035 DAVIS, C. L., and KEMPER, H. E. The histopathologic diagnosis of filarial dermatosis in sheep. *Amer. Vet. Med. Assoc. J.* 118:103-106. Feb.1951. 41.8 Am3  
Due to *Elaeophora schneideri*.
- 30036 DAY, N. S., and HOEFLE, C. Fungus growth and nutritional deficiency. *Amer. Vet. Med. Assoc. J.* 118:111-112. Feb.1951. 41.8 Am3  
Observations on Nubian goats and Great Danes.
- 30037 HUNGATE, R. E., and DOUGHERTY, R. W. Experiments on the physiology of the rumen. (Abs.) *Anat. Rec.* 108:533. Nov.1950. 447.8 An1  
Sheep.
- 30038 LEÓN, J. P. DE. Las gangrenas gaseosas de los lanares. Uruguay. Min. de Ganad. y Agr. B. Inform. 351:15-16. (Concl.) Dec.14,1950. 9.9 G15B
- 30039 MEYER, K. F. Epidemiological considerations of animal diseases with special reference to caprine brucellosis. *Ofic. Sanit. Panamer. B.* 30:9-15. Ref. Jan.1951. 449.9 P192B
- 30040 MUKHERJEE, B. N. The normal temperature of goats. *Nagpur Agr. Col. Mag.* 25:26-29. June/Sept. 1950. 107.5 N132
- 30041 NEHER, G. M., and ZARROW, M. X. Progesterone levels in the ewe. (Abs.) *Anat. Rec.* 108:556. Nov.1950. 447.8 An1
- 30042 NOSIK, A. F. Treatment of coccidiosis in sheep with sulfanthrol and disulfan. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(4):69-70. July/Aug. 1950. 49 K14
- 30043 OLDACRE, W. B. When your first goat kids. *Brit. Goat Soc. Mon. J.* 4:2-4. Jan.1951. 40.19 B77M
- 30044 ORLOV, N. P. Coccidiosis in sheep and measures for its control. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(4):66-68. July/Aug.1950. 49 K14
- 30045 SCHULZE, W. Der pansenschnitt bei der ziege. *Monatsh. f. Vetmed.* 5:332-333. Dec.1950. 41.8 M742
- 30046 SELLERS, K. C., and PUGH, P. D. S. The occurrence of ketosis in pregnant ewes, associated with parasitism. *Vet. Rec.* 63:40-41. Ref. Jan.20,1951. 41.8 V641
- 30047 STOENNER, H. G. Isolation of *Brucella abortus* from sheep. *Amer. Vet. Med. Assoc. J.* 118:101-102. Feb.1951. 41.8 Am3
- 30048 STREET, R. T. Karakul breeders should be alert to distemper symptoms. *Fur Farming J.* 4(4):6. Jan./Feb.1951. 45.8 K142
- 30049 TEN, M. P. Use of fish oil in A-avitaminosis in Karakul sheep. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(4):61-63. July/Aug.1950. 49 K14
- 30050 TROITSKIĬ, I. A., and DUBROVA, K. D. Growth of wool in sheep. (In Russian.) *Sovet. Zootekh.* 5(9):83-86. Sept.1950. 49 So822  
Investigations on skin in Merino sheep.
- 30051 URUGUAY. DIRECCION GENERAL DE GANADERIA. La lucha contra la sarna ovina. *Asoc. Rur. del Uruguay. Rev.* 77(12):18,20. Dec.1950. 9.9 As5
- 30052 VAN DER WESTHUIZEN, G. C. A., OXFORD, A. E., and QUN, J. I. Studies on the alimentary tract of Merino sheep in South Africa. XVI. On the identity of *Schizosaccharomyces ovis*. I. Some yeast-like organisms isolated from the rumen contents of sheep fed on a lucerne diet. *Onderstepoort J. Vet. Sci. & Anim. Indus.* 24:119-124. Apr.1950. 41.8 On1
- 30053 WIMSATT, W. A. New histological observations on the placenta of the sheep. *Amer. J. Anat.* 87:391-457. Ref. Nov.1950. 447.8 Am32
- 30054 CASA PACHECO, MARQUÉS DE. Impresiones sobre ganado lanar y cabrío. *Ganadería [Madrid]* 8:579-580. Sept.1950. 49 G15
- 30055 ELLIOTT, E. Preparing for the 4-H goat show. *Dairy Goat J.* 29(2):10. Feb.1951. 40.18 M592
- 30056 EMPERAIRE, J. Le mouton à l'extrême-sud du monde. *Mouton* 5:87-89. Oct.1950. 45.8 M86  
Southern Chile.
- 30057 ETTIEN, I. E. Raising goats without pasture. *Dairy Goat J.* 29(2):7. Feb.1951. 40.18 M592
- 30058 FOWLER, R. G., JR. Webfooted sheep. *Oreg. Farmer* 74:87,86. Feb.1,1951. 6 Or32  
Sheep management on irrigated land in Oregon.
- 30059 GILL, L. This range sheep operation is set up for top results. *Mont. Farmer-Stockman* 38(8):25. Dec. 15,1950. 6 M764
- 30060 GRISSOM, E. E. Winter management of the ewe flock. *Livestock Wk.* 5(8):38-39,41. Dec.28,1950. 49 L753
- 30061 HAWKINS, B. Ready-reference cards for sheep breeding records. *Farmer's Wk. [Bloemfontein]* 80:13. Nov.29,1950. 24 F225
- 30062 HOUT, F. VAN. Aid to the increase of the milk yield of goats and sheep through a National Goat and Sheep Show. (In Flemish.) *Cult. en Handel* 16:555. Sept. 1950. 80 C892
- 30063 HUNT, W. J. How to plug a profit leak in the sheep business. *Successful Farming* 49(2):120,122-123. Feb.1951. 6 Su12  
Selection of breeding stock with lamb-producing ability.
- 30064 KOTZE, J. J. J. Fat-lamb production in the sour-grassveld area. *Farming So. Africa* 25:357-360, 369. Nov.1950. 24 So842
- 30065 KRAFFT DE BOËRIO, C. Recherche de la qualité dans l'élevage caprin. *Mouton* 5:107. Nov.1950. 45.8 M86
- 30066 MCDONALD, C. W. Lamb production. *Iowa. Agr. Expt. Sta. B.* P107:611-640. June 1950. 100 Io9  
Care of ewes and lambs.
- 30067 MEYBECK, J. Peintures de marquage pour moutons. *Rev. Agr. de l'Afrique du Nord* 48:791-792. Oct.27,1950. 80 R326
- 30068 MILLER, R. C. Raise those lambs; here are the best rules observed by a sheep expert. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 66:16,88. Jan.1951. 6 P945K
- 30069 PETERSEN, J. C. The National Lamb Feeders Association. *Natl. Wool Grower* 41:18. Jan.1951. 45.8 N21N
- 30070 ROBERTS, E. J. Winter plans for hill flocks. *Brit. Farmer* 1950(30):10. Dec.31,1950. 281.8 B77  
Sheep.
- 30071 ROSE, D. Goats to the defense of the family. *Dairy Goat J.* 29(2):8. Feb.1951. 40.18 M592
- 30072 STEYN, T. J. Raiders of the plains. (In Afrikaans.) *Woolboer* 39:14-15. Oct.1950. 45.8 W83  
Sheep predators in South Africa.
- 30073 WILSON, J. Another big season ahead for California sheep shearing schools; start at Fresno, February 19th. *Calif. Wool Grower* 27(5):7. Jan.30,1951. 45.8 C12
- 30074 ZMIRI, H. The treatment of sheep before winter. (In Hebrew.) *Hassadeh* 31:113-114. Nov./Dec.1950. 26 H27

## EWINE

### Breeds and Breeding

- 30075 BAKKER, W. The importance of selection in swine raising. (In Dutch.) *Friesch Landbbl.* 47:491. Aug.11,1950. 12 F91
- 30076 BERTL, H. Das ergebnis der zuchtleistungsprüfung bei schweinen in Niederösterreich. *Landwirtschaft* 1950:361-362. Dec.1950. 19 L235
- 30077 BRUNNERT, J. Der mittlere rahmen und die kreuzung. *Tierzüchter* 2:563-565. Nov.5,1950. 49 T445  
Swine.
- 30078 COFFEY, J. S. Perpetuation of the Berkshire. *Berkshire News* 16(4):6,19,23-24. Feb.1951. 46.8 B454
- 30079 DOMINGUES, O. The breeding hog. (In Portuguese.) *Selec. Agr.* 5(56):21-22. Dec.1950. 9.2 Se4
- 30080 EVANS, B. R. Hog producers still favor "old red sow." *Natl. Live Stock Prod.* 29(4):3,19. Jan.1951. 280.38 N21  
Durocs.
- 30081 HALE, F. Selecting the brood sow; the constructive buyer should have clearly in mind a standard or ideal. *Amer. Hampshire Herdsman* 26(2):52. Feb.1951. 46.8 Am33
- 30082 PEMBERTON, R. L. "Belts" in hoglot show Hampshire preference. *Natl. Live Stock Prod.* 29(5):8, 16. Feb.1951. 280.38 N21
- 30083 PHILIPP, D. H. Ist hybridisation möglich? *Deut. Landwirt. Presse* 73(24):5-6. Nov.18,1950. 18 D482  
Swine.
- 30084 RENDEL, J. M. Experimental analysis of the inheritance of productivity and growth in pigs. *Commonwealth Bur. Anim. Breeding & Genet. Anim. Breeding Abs.* 18:235-240. Ref. Sept.1950. 241 Im72Ra



30085 WARWICK, E. J., and WILEY, J. R. Progress in inbred lines of swine and their uses in crosses. Ind. Agr. Expt. Sta. B. 552, 31 p. Ref. June 1950. 100 In2P

#### Feeds and Feeding

30086 BRAUDE, R., MITCHELL, K. G., and ROBINSON, K. L. The value of Australian sorghum for fattening pigs. J. Agr. Sci. [London] 40:84-92. Jan./Apr. 1950. 10 J822

30087 BRUNNERT, J. Wirtschaftliche fragen der Schweinemast. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1589. Nov. 16, 1950. 18 L2346

30088 CUNHA, T. J. Vitamin requirements of swine during growth, reproduction and lactation. Feedstuffs 23: 20-23. Jan. 6, 1951. 286.81 F322

30089 DYER, I. A. Some water-soluble vitamin deficiencies of a corn-soybean meal ration for weanling pigs. Urbana, 1950. 7 p. 389.7 D98

Abstract of thesis—University of Illinois.

30090 KLEIN, J. El engorde económico de los cerdos. Asoc. Argentina Criadores de Cerdos. Rev. 29: (340):9. Dec. 1950. 46.9 As5

30091 LOOSLI, J. K. The amino acid requirements of swine. (Sum.) Feedstuffs 23:44, 46-47. Jan. 6, 1951. 286.81 F322

30092 LUECKE, R. W. Effect of vitamin B<sub>12</sub>, APF and antibiotics on the growth of the weanling pig. (Sum.) Feedstuffs 22(52):19-20, 22. Dec. 30, 1950. 286.81 F322

30093 MCLAGAN, J. R., and NASR, H. Raw versus boiled potatoes for pigs. Scot. Agr. 30:143-145. Winter 1950/51. 10 Sco82So

30094 PETERSEN, N. Neues über silage für schweine. Deut. Landwirt. Presse 73(25):6. Dec. 2, 1950. 18 D482

30095 PETERSEN, N. Rübenblatt als schweinefutter. Deut. Landwirt. Presse 73(23):2. Nov. 4, 1950. 18 D482

30096 RUDAKOV, A. I., KABOZOV, S. M., and SURIN, P. I. A. Preparation and utilization of potato silage. (In Russian.) Sovet. Zootekh. 5(10):78-88. Oct. 1950. 49 So822

For swine feeding.

30097 SCHIERMANN, E. Verwendung von molke in der Schweinemast. Landbote 4(48):4. Dec. 2, 1950. 18 L2336

30098 SELLARDS, G. Hogs like Ladino. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 66(2):116-117. Feb. 1951. 6 P945K

30099 SHELTON, D. C., BEESON, W. M., and MERTZ, E. T. Quantitative l-lysine requirement of the weanling pig. Arch. Biochem. 30:1-5. Jan. 1951. 381 Ar2

30100 VEZZANI, V., and RAIMONDI, R. Les sous-produits de l'industrie du riz et particulièrement le "farinaccio" et son emploi dans l'engraisement des porcs. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8 (1):558-559. 1950. 388 C765

30101 WALLACE, D. B. Fatten on home-grown food. Farmer & Stock-Breeder 65:403, 405. Feb. 6, 1951. 10 F228

Feeding swine.

30102 WALTHER, A. L. Maybe pigs are not so depressing as eggs: quality bacon. Poultry Field 3(10):23. Sept. 28, 1950. 47.8 P8655

Chiefly feeding of swine for meat.

30103 WATSON, C. J., and others. Digestibility studies with swine. VI. Associative digestibility between the grain mixture and the protein-mineral supplement in the Canadian advanced registry ration for swine. Sci. Agr. 31:25-31. Jan. 1951. 7 Sci2  
J. W. Kennedy, W. M. Davidson., and E. B. Fraser, join authors.

#### Veterinary Medicine

30104 ACKERKNECHT, E. Anatomische Unterschiede zwischen wildschwein und hausschwein (zusammenstellung der wildmerkmale). Z. f. Tierzücht. u. Züchtbiol. 58: 465-472. Ref. July 1950. 442.8 Z35

30105 ADLER, H. E. Mastitis in sows associated with aerobacter [aerogenes] infection. No. Amer. Vet. 32:96-97. Feb. 1951. 41.8 N812

30106 BAILEY, J. W. Brucellosis in swine. Hoard's Dairyman 96:102. Jan. 25, 1951. 44.8 H65

30107 BRUNNERT, J. Aufzucht der ferkel im winter und rachitis. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1693-1694. Dec. 7, 1950. 18 L2346

30108 CIANI, L. On the specific serum and adrenalin association in the therapeutic treatment of swine erysipelas. (In Italian.) Clin. Vet. 73:334-338. Nov. 1950. 41.8 C61

30109 DEMNITZ, A., and DRÄGER, K. Über die haltbarkeit des immunisationswertes von lebenden rotlauf-bouillonkulturen. Tierärztl. Umschau 6:25-26. Jan. 1951. 41.8 T445

30110 DUNNE, H. W., and others. Problem of erysipelas. M. S. C. Veterinarian 11:65-69. Winter 1951. 41.8 M582

R. D. Belding, J. P. Newman, R. L. Johnston, and H. J. Stafseth, joint authors.

Erysipelothrix rhusiopathiae in Michigan swine and turkeys.

30111 EHRLICH, C. Zum auftreten von schweinepest in Westfalen. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1731. Dec. 14, 1950. 18 L2346

30112 FLÜCKIGER, G. Änderungen in der bekämpfung des rotlaufs der schweine. Schweiz. Arch. f. Tierheilk. 93:9-12. Jan. 1951. 41.8 Sch9

30113 FREITAS, M. G. Notes on the incidence of helminths in swine from Minas Gerais. (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arg. 2: 47-50. 1949. 41.9 M662  
English summary.

30114 GAYOT, G. Localisation des anticorps dans le sérum antisuipetiste. Acad. Vet. de France. B. 23:488-490. Nov. 1950. 41.9 R24

30115 GINSBERG, A., and FITZPATRICK, M. J. Tuberculosis-like lesions in the pig. Vet. Rec. 62:808-811. Ref. Dec. 23, 1950. 41.8 V641

Abscesses of lymph nodes due to various bacteria.

30116 HEIDEBRECHT, A. A., and WHITEHAIR, C. K. Preventing baby pig losses. Chester White J. 41(2):3, 21. Feb. 1951. 46.8 W582

Feeding and care.

30117 HOERLEIN, A. B. Check swine brucellosis. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:90-92. Dec. 1950. 275.28 Io94

30118 HOSOYA, H., MATUMOTO, M., and IWASA, S. Epizootological studies on stillbirth of swine occurred in Japan during summer months of 1948. Jap. J. Expt. Med. 20:587-595. July 30, 1950. 448.8 J272

Associated with Japanese B encephalitis virus.

30119 HUDSON, J. R., and WONGSONGSARN, G. The utilisation of pigs for the production of lapinised rinderpest virus. Brit. Vet. J. 106:453-472. Dec. 1950. 41.8 V643

30120 JANSS, R. STREAM, J., and YOUNG, F. Methods of restraint in boar castration. Iowa State Col. Vet. 13:39. 1951. 41.8 V6425

30121 KUMMER, H. Schwere erkrankung bei schweinen nach runkelrübenfütterung. Bad. Landwirt. Wchnbl. 117:864. Dec. 16, 1950. 18 B142

30122 LASLEY, J. F. Hog growing profits are greatest when you get big litters and heavy weaning weights. Amer. Hampshire Herdsman 26(2):12, 14, 17, 21, 101, 103. Feb. 1951. 46.8 Am33

30123 MCCULLOUGH, N. B., EISELE, C. W., and PAVELCHEK, E. Survey of brucellosis in slaughtered hogs. Pub. Health Rpt. 66:205-208. Feb. 16, 1951. 151.65 P96

30124 MACHADO, A. V., and RANGEL, N. M. Foreign objects in the liver and bile ducts of a sow. (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arg. 2:151-154. 1949. 41.9 M662  
English summary.

30125 MAKKINGA, S. Clinical contribution to ataxia in pigs. (In Dutch.) Tijdschr. v. Diergeneesk. 75:910-912. Nov. 1950. 41.8 T431

30126 MARION, P. La lutte pratique contre les maladies du porc. Porc 21(8):29, 31. Oct. 1950. 46.8 P822

30127 NESHEIM, R. O., and JOHNSON, B. C. Response of pigs to streptomycin. Soc. Expt. Biol. & Med. Proc. 75:709. Dec. 1950. 442.9 So1

30128 OSBORNE, H. G. Footrot in pigs. Austral. Vet. J. 26:316-317. Nov. 1950. 41.8 Au72

30129 RANGEL, N. M., and MACHADO, A. V. Actinomyces necrophorus in splenic lesions of swine inoculated with the virus of hog cholera. (In Portuguese.) Esc. Super. de Vet. do Estado de Minas Gerais. Arg. 2:89-92. 1949. 41.9 M662  
English summary.

30130 SCHOFIELD, F. W. Ceresan poisoning in swine. Ontario Vet. Col. Rpt. 1949:118-120. 1950. 41.9 On8R



30131 STEFANSKI, W., and ŻARNOWSKI, E. A new medicine against ascariasis in pigs. (In Polish.) *Med. Weter.* 6:410-413. July 1950. 41.8 M463

English summary.  
Sodium fluoride.

30132 WHITEHAIR, C. K., HEIDEBRECHT, A. A., and ROSS, O. B. Antibiotics for digestive disturbances [diarrhea] in young pigs. *Vet. Med.* 46:81-83. Mar. 1951. 41.8 M69

30133 WILWERTH, A. M. Calcium and phosphorus content of swine blood. (In Portuguese.) *Esc. Super. de Vet. do Estado de Minas Gerais. Arq.* 2:87-88. 1949. 41.9 M662

English summary.

30134 WOODROOFE, G. M. Studies on strains of *Corynebacterium equi* isolated from pigs. *Austral. J. Expt. Biol. & Med. Sci.* 28:399-409. Ref. July 1950. 442.8 Au7

#### Miscellaneous

30135 BECKMAN, H. J. Winter hog care. *West. Livestock J.* 29(7):141-142. Jan. 15, 1951. 6 F2278

30136 BLOUNT, W. P. Profit from pigs. 1-7. *Poultry Farmer* (London) 123(3204):14; 124(3205):14; (3206):14; (3207):14; (3208):14; (3209):14; (3210):14. Dec. 29, 1950-Feb. 9, 1951. 47.8 F312

30137 BRUNNERT, J. Die ausrichtung auf einheitliche zucht- und mastschweine. *Landwirt. Wehnl. f. Westfalen u. Lippe* 107 A:1520-1521. Nov. 2, 1950. 18 L2346

30138 DORNIK, O. Aus unserer kursarbeit in Tullnerbach. *Landwirtschaft* 1950:367. Dec. 1950. 19 L235

Swine raising.

30139 DUCK, R. W. Care of brood sows before and after farrowing. *Rur. New-Yorker* 101(5731):28, 35. Jan. 6, 1951. 6 R88

30140 GIFFORD, C. W. A pig an hour the year around; there's a bushel of ideas on this amazing place. If you keep one sow or a thousand you ought to read about this pig hatchery. *Farm J.* 75(3):37-38, 86-90. Mar. 1951. 6 F2212

Management, buildings and equipment.

30141 GONZÁLEZ, F. G. Apuntes sobre la cría y explotación del cerdo. *Tierra [México]* 6:36-40. Jan. 1951. 8 T445

30142 LYBROOK, P. Buying bred sows. *Chester White J.* 41:6-7. Jan. 1951. 46.8 W582

30143 LYBROOK, P. Let's check records. *Chester White J.* 41:5. Jan. 1951. 46.8 W582

30144 LYBROOK, P. Take care of your herd and it'll take care of you. *Chester White J.* 41(2):4-6. Feb. 1951. 46.8 W582

30145 MADISON, L. C. El cuidado debido para la puerca y su lechigada. *Campo [Guadalajara]* 18(11):3-5. (To be cont.) Nov. 1950. 8 G76

30146 MARQUARDT, W. Be gentle with hogs, it pays; and it is illegal to be otherwise. *Hormel Farmer* 14(4):7. Dec. 15, 1950. 49 H782

30147 MARTIN, R. Hog profits come only from the pigs you keep alive. *Farmer-Stockman* 54(2):8, 22. Feb. 1951. 6 Ok45

Management.

30148 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Stepping up bacon production. VII. Emphasis on outdoor rearing and warmth. *North. Ireland. Min. Agr. Mon. Rpt.* 25:262-266. Jan. 1951. 256.13 Ag82M

#### ENTOMOLOGY

##### GENERAL

30149 ANDER, K. Entomology in Lund, its history and present state. *Internatl. Cong. Ent. Proc.* 8:44-48. 1950. 422 C76

30150 BECK, P. La vie sociale chez les insectes. *Abeille et l'Erable* (ser. 2) 19:140-142. (Concl.) Nov. 1950. 424.8 Ab32

30151 BERLAND, L. Chasses entomologiques en Mauritanie. *Entomologiste* 6:123-128. July/Oct. 1950. 421 En814

30152 BRINCK, P. Discussion on entomological nomenclature; introduction. *Internatl. Cong. Ent. Proc.* 8:985-988. 1950. 422 C76

30153 BRUET, E. Le loess de la République de l'Equateur et ses nids fossiles d'insectes. *Rev. Franç. d'Ent.* 17:280-283. 1950. 421 R323

30154 BRYK, F. Der gattungsbegriff bei Linné. *Internatl. Cong. Ent. Proc.* 8:989-992. 1950. 422 C76

Insect nomenclature.

30155 BUSNEL, R. G. Nouvelles acquisitions sur les pterines des insectes. *Internatl. Cong. Ent. Proc.* 8:622-625. Ref. 1950. 422 C76

30156 CAZAL, P. Anatomie comparée des glandes rétrocérébrales et du sympathique céphalique des insectes—son utilité pour la systématique. *Internatl. Cong. Ent. Proc.* 8:116-123. 1950. 422 C76

30157 CAZAL, P. Conception histophysiologique des glandes rétrocérébrales des insectes. *Internatl. Cong. Ent. Proc.* 8:214-217. 1950. 422 C76

Corpora allata and corpora cardiaca.

30158 DOCTERS VAN LEEUWEN, W. M. Zoocécidia from the island of Terschelling; second note. (In Dutch.) *Ent. Ber.* 13:168-173. Ref. Nov. 1, 1950. 420 N38B

30159 ESAKI, T. A zoogeographical consideration of the insect fauna in the Pacific Islands. *Internatl. Cong. Ent. Proc.* 8:373-379. Ref. 1950. 422 C76

30160 FORSSLUND, K. H. Über die einsammlungs-methodik bei untersuchungen der bodenfauna. *Internatl. Cong. Ent. Proc.* 8:770-772. 1950. 422 C76

30161 FRANZ, H. Die artenzusammensetzung ostalpiner und pannonischer bodentiergemeinschaften in ihrer abhängigkeit vom standort. *Internatl. Cong. Ent. Proc.* 8:401-407. 1950. 422 C76

30162 FRANZ, H. Prä- und interglaziale relikte in der bodenfauna der Nordostalpen. *Internatl. Cong. Ent. Proc.* 8:382-400. 1950. 422 C76

30163 HANDSCHIN, E. Die entomologischen untersuchungen im Schweizerischen Nationalpark im Unterengadin. *Internatl. Cong. Ent. Proc.* 8:69-73. 1950. 422 C76

30164 HANDSCHIN, E. Zur entstehung der Quercy-fossilien. *Internatl. Cong. Ent. Proc.* 8:137-140. 1950. 422 C76

30165 HEMMING, F. A new chapter in zoological nomenclature: the reforms instituted by the Thirteenth International Congress of Zoology, Paris, July, 1948. *Soc. Brit. Ent. Trans.* 10:209-216. Nov. 30, 1950. 420 S015

30166 HERING, E. M. Die oligophagie phytophager insekten als hinweis auf eine verwandtschaft der Rosaceae mit den familien der Amentiferae. *Internatl. Cong. Ent. Proc.* 8:74-79. 1950. 422 C76

30167 HESS, G. Insekten im mittelschulunterricht. *Schweiz. Ent. Gesell. Mitt.* 23:77-80. Aug. 10, 1950. 420 Sw6

30168 HIESTAND, W. A. The resistance to nitrogen narcosis of insects, spiders, and phalangids. (Abs.) *Anat. Rec.* 108:614. Nov. 1950. 447.8 An1

30169 INTERNATIONAL CONGRESS OF ENTOMOLOGY. 8, STOCKHOLM, 1950. *Proceedings.* Stockholm, 1950. 1030 p. 422 C76

30170 JAHN, E. Bodentieruntersuchungen in den flugsandgebieten des Marchfeldes. (Untersuchungen über die bevölkerungsdichte von bodentieren in dünne und verschiedenen alten beständen der ersten waldgeneration). *Z. f. Angew. Ent.* 32:208-274. Ref. Nov. 1950. 421 Z36

Chiefly mites and insects.

30171 JEANNEL, R. Origine et évolution des insectes. *Internatl. Cong. Ent. Proc.* 8:80-86. 1950. 422 C76

30172 KANAN, H. W. The Chemical-Biological Coordination Center of the National Research Council. *Internatl. Cong. Ent. Proc.* 8:920-923. 1950. 422 C76

Assembles information on biological action of chemicals and sponsors testing of chemicals, including insecticides, for biological activity.

30173 KONTUNIEMI, T. Gedanken zu gegenseitigen tauschverbindungen der museen. *Internatl. Cong. Ent. Proc.* 8:145-146. 1950. 422 C76

30174 KUTTER, R. Kleiner einblick in das arbeitsgebiet des Entomologischen Institutes der E. T. H. in Zürich. *Schweiz. Ent. Gesell. Mitt.* 23:75-76. Aug. 10, 1950. 420 Sw6

Eidgenössische Technische Hochschule.

30175 LARSEN, O. Die dorsoventralen muskeln im pterothorax der neuropteroiden insekten. *Internatl. Cong. Ent. Proc.* 8:557-560. Ref. 1950. 422 C76

Megaloptera, Neuroptera, Mecoptera, Trichoptera, and Lepidoptera.



- 30176 LEPESME, P. Sur la discrimination des formes indigènes et des formes importées dans les catalogues faunistiques. Internatl. Cong. Ent. Proc. 8: 993-994. 1950. 422 C76
- 30177 LINDBERG, H. Über die insekten der küstengewässer des Baltischen Meeres. Internatl. Cong. Ent. Proc. 8:429-433. 1950. 422 C76
- 30178 MALAISE, R. New entomological evidences of a former Trans-Pacific land-connection. Internatl. Cong. Ent. Proc. 8:434-437. 1950. 422 C76
- 30179 MALIES, H. M. Photomicrography for the entomologist. 3-4. Microscope 8:36-40, 98-103. July/Aug./Nov./Dec.1950. 440.8 M584 Equipment.
- 30180 METCALF, Z. P. Methods in systematic entomology. Internatl. Cong. Ent. Proc. 8:152-155. 1950. 422 C76
- 30181 NOVAK, V. J. A. New aspects of the metamorphosis of insects. Nature [London] 166:132-133. Ref. Jan.27,1951. 472 N21
- 30182 OLIVE, J. R. Some parasites of the prairie mole, *Scalopus aquaticus machrinus* (Rafinesque). Ohio J. Sci. 50:263-266. Nov.1950. 410 Oh3  
Includes *Atricholaelaps glasgowi*, *Ctenophthalmus pseudagrytes*, and *Leptinus testaceus*.
- 30183 PALM, N. B. Peristaltic movements of the Malpighian tubes. Internatl. Cong. Ent. Proc. 8:293-296. 1950. 422 C76
- 30184 PALM, N. B. The use of vital staining methods in insect histology research. Internatl. Cong. Ent. Proc. 8:282-288. Ref. 1950. 422 C76
- 30185 PALMEN, E. Sea-drifts of insects as a factor in dispersal. Internatl. Cong. Ent. Proc. 8:450-453. 1950. 422 C76
- 30186 PAULIAN, R. Observations sur la faune entomologique des nids de Ploceinae. Internatl. Cong. Ent. Proc. 8:454-456. 1950. 422 C76
- 30187 PAVAN, M. Summary of original research on antibiotic substances of insects. Internatl. Cong. Ent. Proc. 8:866-869. Ref. 1950. 422 C76
- 30188 PIERCE, W. D. Fossil arthropods from onyx marble. South. Calif. Acad. Sci. B. 49:101-104. Sept./Dec.1950. 500 So8  
Pedipalpid in *Onychothelyphonus* n.g., and *thysanuran* in *Onychojapyx* n.g.
- 30189 PIERCE, W. D. When does a thing become a fossil? South. Calif. Acad. Sci. B. 49:105-107. Sept./Dec.1950. 500 So8  
Includes discussion of insects.
- 30190 RIETSCHER, P. Ruhendes Insektenleben; verbreitung und bedeutung der latenz. Umschau 50:728-730. Dec.1,1950. 474 Um7
- 30191 SCHNEIDER, F. Die abwehrreaktion des insektenblutes und ihre beeinflussung durch die parasiten. Zürich. Natforsch. Gesell. Vrtjahrsschr. 95:22-44. Ref. Mar.31,1950. 508 Z8
- 30192 SCHWEIGER, H. Die thermophile fauna Südkärntens. Internatl. Cong. Ent. Proc. 8:481-488. Ref. 1950. 422 C76
- 30193 SCOGGIN, J. K., and TAUBER, O. E. Survey of literature on insect lipids. Iowa State Col. J. Sci. 25:99-124. Ref. Oct.1950. 470 Io9
- 30194 SHIVELY, A. W. Role of the insect larva in plant gall production. Pa. Acad. Sci. Proc. 24:17-20. 1950. 500 P383
- 30195 SOTAVALTA, O. Some details and theories of the problem of the flight of insects. Internatl. Cong. Ent. Proc. 8:297-302. Ref. 1950. 422 C76
- 30196 STEVENS, O. A. Insects. N. Dak. Outdoors 13(6):7-8. Dec.1950. 412.9 N815 Hibernation.
- 30197 STROUD, C. P. A survey of the insects of White Sands National Monument, Tularosa Basin, New Mexico. Amer. Midland Nat. 44:659-677. Ref. Nov.1950. 410 M58
- 30198 TÓTH, L. Protein metabolism and nitrogen fixation by means of microorganisms living in symbiosis with insects. Internatl. Cong. Ent. Proc. 8:303-306. Ref. 1950. 422 C76
- 30199 VAGO, C. Diversité des symptômes extérieurs dans une même maladie à ultravirus d'insectes. Acad. des Sci. Compt. Rend. 231:1587-1588. Dec.18,1950. 505 P21
- 30200 WIGGLESWORTH, V. B. The insect epicuticle. Internatl. Cong. Ent. Proc. 8:307-309. 1950. 422 C76
- 30201 WILDE, J. DE. An experimental proof of the activity of the alary muscles in insects. Internatl. Cong. Ent. Proc. 8:322-328. Ref. 1950. 422 C76
- 30202 WOODFIELD, F. A. Martha Washington wore insects. Nat. Hist. 60:49. Feb.1951. 500 N483J Textile design.

## GENERAL - ECONOMIC

- 30203 ANERUD, K. Fall rape. (In Swedish.) Mjolk-propagandan 27:226-227. Sept.1950. 44.8 M692 Pests.
- 30204 ANGELL, G. N. Insecticides keep scientists (and farmers) busy. Oreg. Farmer 74:38,41. Jan.18, 1951. 6 Or32
- 30205 ARIMA, S., INOBUCHI, S., and TSUBOKURA, M. Studies on the urine of the domestic rabbit as an insecticide. (In Japanese.) Tottori Soc. Agr. Sci. Trans. 9:7-8. Dec.1949. 513 T64
- 30206 ASKELOF, E. A survey of so-called repellent insecticides, that have been developed during the last years to protect from attacks of different insects as mosquitoes, midges, biting flies, chiggers; etc.; description of their chemistry and some observations made in Sweden with such preparations. Internatl. Cong. Ent. Proc. 8:842-847. 1950. 422 C76
- 30207 BATEMAN, A. J. Is gene dispersion normal? Heredity 4:353-363. Ref. Dec.1950. 443.8 H42  
Based on insect and plant studies.
- 30208 BECKER, G. Angewandte entomologie und holzschutz. (Abs.) Angew. Chem. 62:176. Apr.6,1950. 384 Z33
- 30209 BERAN, F. Rückblick auf das schädlingjahr 1950. Pflanzenarzt 3(12):1-2. Dec.1,1950. 464.9 P482
- 30210 BLACK, R. Canada pioneers a plan for forest insect control. Amer. Forests 57(2):12-13,42. Feb.1951. 99.8 F762
- 30211 BRADLEY, G. H. Insect control activities of the Communicable Disease Center. Internatl. Cong. Ent. Proc. 8:609-618. Ref. 1950. 422 C76
- 30212 BRIGHT, N. F. H., CUTHILL, J. C., and WOODBURY, N. H. The vapour pressure of parathion and related compounds. J. Sci. Food & Agr. 1:344-348. Ref. Nov.1950. 382 So12
- 30213 BRUNER, S. C., and VALDES BARRY, F. Insectos caseros y modo de combatirlos. Agrotecnia 4: 41-51. Sept./Dec.1950. 8 Ag825
- 30214 BUTLER, E. Community action whips cotton pests. Prog. Farmer, Tex. Ed. 66(2):15,116-117,130. Feb.1951. 6 T311  
Early season control applied by every farmer in a Texas community.
- 30215 CAREY, C. J. Legal aspects of pest control. (Condensed.) West. Grower & Shipper 22(3):13,36. Feb.1951. 280.38 W52 Insects.
- 30216 CARROLL, J. The status of forest insect pests in Ireland. Internatl. Cong. Ent. Proc. 8:755-758. 1950. 422 C76
- 30217 COHIC, F. Les insectes nuisibles aux plantes cultivées dans les Wallis et Futuna. Agron. Trop. 5:563-581. Nov./Dec.1950. 26 Ag86
- 30218 COLBOURNE, M. J., and others. A medical survey in a Gold Coast village. Roy. Soc. Trop. Med. & Hyg. Trans. 44:271-290. Ref. Dec.1950. 448.9 R813  
G. M. Edington, M. H. Hughes, and A. Ward-Brew, joint authors.  
Includes notes on insect pests (*Cimex rotundatus*, *Auchmeromyia luteola*), insect vectors of diseases (*Anopheles gambiae*, *Glossina* spp., *Culicoides grahmi*), and scabies.
- 30219 CORY, E. N. The control of pests of Azaleas. Md. Gard. 5:10. Jan.1951. 80 M362 Insects.
- 30220 DEBACH, P. Possibilities in biological control of citrus pests. Rio Grande Val. Hort. Inst. Proc. 5:77-80. 1951. 81 L95
- 30221 DOUGLAS, W. A., and TULLIS, E. C. Insects and fungi as causes of pecky rice. U. S. D. A. Tech. B. 1015,20 p. Dec.1950. 1 Ag84Te
- 30222 DOWNES, J. A. A preliminary account of the insects attacking the dried roots of Derris and Lonchocarpus. Internatl. Cong. Ent. Proc. 8:812-814. 1950. 422 C76



- 30223 DUCOURTIAL, P. L'ennemi menace vos cultures; complexité des problèmes phytosanitaires. B. des Engrais 325:169-170. Nov.1950. 57.8 B87  
Insect pests.
- 30224 DUPREZ, K. La bouillie sulfocalcique. Internat. Cong. Ent. Proc. 8:887-891. 1950. 422 C76
- 30225 EDWARDS, G. R. Insect pests of vegetable crops. III. Insect pests of beans. So. Austral. Dept. Agr. J. 54:68-73. Sept.1950. 23 So84
- 30226 ELVEN, E. Hormonwirkungen bei der insektenmetamorphose. Natwiss. Rundschau 3:558-560. Dec.1950. 474 N216
- 30227 FENJVES, P. Einige probleme der angewandten entomologie in Venezuela. Schweiz. Ent. Gesell. Mitt. 23:135-154. Ref. Aug.10,1950. 420 Sw6  
1, Einleitung; 2, Die blattschneiderameisen [Atta cephalotes]; 3, Laphygma frugiperda (S. & A.); 4, Die bohrrer des zuckerrohres, Diatraea spp.; 5, Alabama argillacea (Hübner); 6, Cosmopolites sordidus (Germ.); Zusammenfassung.
- 30228 FENTON, F. A. Insect control in legumes. South. Seedsman 14(2):20,52,55. Feb.1951. 61.8 So8
- 30229 FIEDLER, O. G. H. Entomologisches aus Afrika (beobachtungen über kaffeeschädlinge). I-IV. Z. f. Angew. Ent. 32:289-306. Nov.1950. 421 Z36  
I, Biologische notizen über Cocciden des kaffeestrauches in Ostafrika; II, Ein verbessertes bekämpfungsverfahren der grossen kaffeestammböhrer [Anthonos leuconotus]; III, Einige blütschädlinge des kaffees in Ostafrika; IV, Ist der kaffeezünsler [Thliptoceras octoguttale] wirklich ein schädling?
- 30230 FONDARD, L. Les esters phosphoriques. Réveil Agr. 59:373. (To be cont.) Dec.15,1950. 14 R322  
Insecticides.
- 30231 FOSTER, W. R. Provincial nursery stock regulations no longer applied. Country Life [Vernon] 30:5. Jan.1951. 7 C832  
Provinces of Canada.
- 30232 FREEMAN, J. A. Methods of spread of stored products insects and origin of infestation in stored products. Internat. Cong. Ent. Proc. 8:815-825. Ref. 1950. 422 C76
- 30233 FRIEDERICH, K. Angewandte entomologie, v. 7, pt. 2, No. 6. Potsdam, Akademie Verlagsgesellschaft Athenalon, 1950. p.161-176. (Bertalanffy, L. von. Handbuch der biologie, Mg. 27b) 442 B46H
- 30234 GAYFORD, G. W. Sprays—their use and misuse. (Sum.) Fruit World & Mkt. Grower 51(11):11. Nov.10,1950. 80 F948  
Insecticides.
- 30235 GOLDENSTERN, Forstschutzmassnahmen gegen schädliche forstinsekten. Landwirtbl. Weser-Ems 97:1012-1013. Nov.30,1950. 18 L2345
- 30236 GORDON, R. M., and CREWE, W. Man's reaction to the bites of certain arthropods. Internat. Cong. Ent. Proc. 8:66-68. 1950. 422 C76
- 30237 GT. BRIT. AGRICULTURAL RESEARCH COUNCIL. INTER-DEPARTMENTAL INSECTICIDE COMMITTEES. Notes on some natural and synthetic organic insecticides. Colon. Plant & Anim. Prod. 1:95-108. Apr./June 1950. 472 C71  
Colonial Products Advisory Bureau, cooperating.
- 30238 GRIFFITHS, J. T., THOMPSON, W. L., and PRATT, R. M. 1950 citrus insects in review. Citrus Mag. 13(6):32-33,38. Feb.1951. 80 C498
- 30239 GÜNTHART, E. Anwendungsmöglichkeiten von insektiziden vom typus hexachlor-cyclohexan. Internat. Cong. Ent. Proc. 8:912-915. 1950. 422 C76
- 30240 GÜNTHART, E. Hexa- und chlordan-präparate zur bekämpfung von wurzelschädlingen. Schweiz. Ent. Gesell. Mitt. 23:245-264. Ref. Aug.10,1950. 420 Sw6  
Larvae of Melolontha melolontha, Agriotes spp., Psila rosae, Phytomyza lateralis, Hylemya cilicrura, H. trichodactyla, H. brassicae, and Agrotis spp.
- 30241 HALLER, H. L. Newer organic insecticides. Internat. Cong. Ent. Proc. 8:916-919. 1950. 422 C76  
Chlorinated hydrocarbons and organic phosphates.
- 30242 HEDDERGOTT, Vogelschutz und schädling-bekämpfung. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:54-55. Jan.11,1951. 18 L2346  
Insect pests.
- 30243 HERFORD, G. V. B. Some research problems in the field of stored products entomology. Internat. Cong. Ent. Proc. 8:826-829. 1950. 422 C76
- 30244 HITCHNER, L. S. Insect invasions test distribution channels of agricultural chemicals. Chem. & Engin. News 29:40-41. Jan.1,1951. 381 J825N  
Insecticides outlook.
- 30245 HIXSON, E. Control of insects in alfalfa. Irrig. Farmer 9(7):3. Nov.2,1950. 55.8 Ir78
- 30246 HOLMES, E. Insecticide-fungicide seed-dressings. World Crops 3:54-56. Feb.1951. 281.8 W892
- 30247 HOLMES, E. L. Facts for the baker—Insecticides, rodenticides, spot and space fumigants. Nowest. Miller 245(6):34-36,40,55-56,60. Feb.6,1951. 298.8 N81  
Also in Amer. Baker 19(2):34-36,40,55-56,60. Feb. 1951. 389.8 Am36
- 30248 HOLMES, E. L. Preventive sanitation. 32. Use of residual insecticides in bakery sanitation. Bakers Wk. 149(8):38-40,56. Feb.19,1951. 389.8 B172
- 30249 HUNOLD, G. A. Chemische beständigkeit und wirksamkeit von lauseto-wirkstoff. Z. f. Hyg. Zool. u. Schädlingbekämpf. 38:257-263. Sept.1950. 449.8 Z36  
A mixture of compounds similar to DDT.
- 30250 ISHIKURA, H., and OKAMOTO, S. Seishoku eiko yugato no riron to jissai [Theory and practice of fluorescent light trap]. Tokyo, Nogyo Denka Kyokai, 1950. 62 p. 335 Is3
- 30251 JONES, S. C. Means of controlling stone fruit pests outlined. Better Fruit 45(8):40-42. Feb.1951. 80 B46
- 30252 KANGAS, E. Die primärität und sekundärität als eigenschaften der schädlinge. Internat. Cong. Ent. Proc. 8:792-798. 1950. 422 C76  
English summary.  
Chiefly on tree pests.
- 30253 KAY, K. Health aspects of the new organic insecticides. Agr. Inst. Rev. 6:25-26,29,31. Jan.1951. 7 Ag8
- 30254 KEARNS, H. G. H. The control of pests and diseases of soft fruit crops and methods of spraying. Worcestershire Agr. Chron. 19:31,33,35,37. Nov.1950/Jan.1951. 10 W892  
Insect pests.
- 30255 KELSHEIMER, E. G. You can spot lawn insects. Fla. Grower 59(2):29,31. Feb.1951. 80 F6622
- 30256 KING, F. C. The dangers of poisonous dusts and sprays. Health & Soil 1950:29-30. Winter 1950. 56.8 H34  
DDT.
- 30257 KLETT, Die bekämpfung der wichtigsten obstbauschädlinge 1951. Obstbau 70:7,9. Jan.1,1951. 80 Ob73  
Insect pests in Germany.
- 30258 KUITERT, L., C. Insect-free work and play; insect repellent materials and their use. Fla. Grower 59(2):22,27. Feb.1951. 80 F6622
- 30259 LAL, K. B. Insect pests of fruit trees grown in the plains of the Uttar Pradesh and their control. Agr. & Anim. Husb. 1(3):46-57;(4):30-45. Apr./Aug.-Sept.1950. 22 Ag86
- 30260 LAMBERMONT, F. L'hexachlorcyclohexane et son isomere gamma. (Sum.) Cong. Internat. des Indus. Agr. Rap. 8(1):498. 1950. 388 C765
- 30261 LANDESVIRBAND DER OBST- UND GARTENBAUVEREINE IN HESSEN. Merkblatt zur obstbaumpflege und obstbaumspritzung. Gartenjahr 5:6-10. Jan.1950. 80 G1932
- 30262 LANGFORD, G. S. Some insects of elm and oak. Arborist's News 15:137-143. Dec.1950. 99.8 Ar14
- 30263 LEON ORTEGA, M. Chlordane tecnico para insecticidas. Tierra [México] 6:44-46. Jan.1951. 8 T445
- 30264 LEPIGRE, A. L. Comment désinsectiser les grains en stock. Phytoma 3(20):12-17. (Cont.) Nov.1950 464.8 P563
- 30265 LOUIS, R. Ist das E 605 tatsächlich so giftig? Obstbau 70:10-11. Jan.1,1951. 80 Ob73  
To man and animals.
- 30266 LUNDBÄCK, S. V. Zinc fluorarsenate as insecticide. Internat. Cong. Ent. Proc. 8:924-925. 1950. 422 C76
- 30267 MCCALLUM, H. A. They study insects and aid the farmer. Land [Sydney] (Farm & Sta. Annu.)2043: 59-60,62. Oct.11,1950. 23 L22  
Entomological research in Australia.



- 30268 MCKINLAY, K. S., and KIRBY, A. H. M. Benzyl alcohol as an aid to penetration of certain ovicides. *Nature* [London] 166:153. Jan. 27, 1951. 472 N21  
Tests with *Paratetranychus pilosus*, *Aphis pomi*, and *Operophtera brumata*.
- 30269 MALAISE, R. How to keep collected insects free from mould and pests in any climate. *Internatl. Cong. Ent. Proc.* 8:926-927. 1950. 422 C76
- 30270 MARGOLD, F. Moderne bekämpfung von rohelfschädlingen. (Sum.) *Angew. Chem. (Ausg. A)* 62: 539. Nov. 21, 1950. 384 Z33  
Insects.
- 30271 MATHLEIN, R. Ueber einige vorratsschädlinge in Schweden. *Internatl. Cong. Ent. Proc.* 8:830-833. 1950. 422 C76
- 30272 MELLINI, F. Determinazione del D.D.T. *Chimica* 5:335-337. Dec. 1950. 385 C445
- 30273 MEYER, R., and DELLEY, R. Spezifische reaktionen auf dichlordiphenylchloräthylen. *Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hyg.* 41:444-447. 1950. 389.9 Sw6  
French summary.
- 30274 MILNER, M. Recent developments in methods for detecting internally infested wheat. *Nowest. Miller (Milling Prod. Sect.)* 245(2):1a, 6a-8a, 10a-11a. Jan. 9, 1951. 298.8 N81  
Determination of insect fragments.
- 30275 MOISEEV, A. E. In regard to the effectiveness of certain control measures against pests of alfalfa grown for seeds. (In Russian.) In *Krasnokutskaja Gosudarstvennaja Selektionsnaja Stanfija. Sbornik nauchnykh rabot za 1944-1948 gg.*, p. 300-304. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 30276 MOISEEV, A. E. Pests of crested wheatgrass [*Agropyron cristatum*] in the lower part of the Volga Area. (In Russian.) In *Krasnokutskaja Gosudarstvennaja Selektionsnaja Stanfija. Sbornik nauchnykh rabot za 1944-1948 gg.*, p. 243-257. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 30277 MORINO, Y., MIYAGAWA, I., and OIWA, T. The dipole moments of the isomers of benzene hexachloride and its related compounds. (In Japanese.) *Botyuu-Kagaku* 15:181-189. Ref. Sept. 1950. 421 B65
- 30278 MYSORE. DEPT. OF AGRICULTURE. Measures of prevention and control against some important pests and plant diseases of crops. *Mysore. Dept. Agr. B.* 22, 28 p. 1949. 22 M99
- 30279 NAUDE, T. J. Cotton-insect problems. *Farming So. Africa* 25:349-351. Nov. 1950. 24 So842  
Control measures and insecticides.
- 30280 NETTLES, W. C. Pest control makes dollars and sense. *South. Seedsman* 14(2):15, 34, 38, 49. Feb. 1951. 61.8 So8
- 30281 NEWCOMER, E. J. Orchard insects of the Pacific Northwest and their control. *U. S. D. A. C.* 270, rev. 63 p. Oct. 1950. 1 Ag84C
- 30282 NICKERSON, W. J. Effects of inhalation of lindane vapors upon white mice. *Vet. Med.* 46:99, 104. Mar. 1951. 41.8 M69
- 30283 NONOYAMA, M. Noyaku no erabikata to tsukaikata [Method of selecting and using insecticides in farming]. Tokyo, Chikuyo Shobo, 1950. 107 p. 423 N73
- 30284 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Fruit tree spraying. North. Ireland. Min. Agr. Mon. Rpt. 25:272-273. Jan. 1951. 256.13 Ag82M  
For insect pest control.
- 30285 ODA, N., and others. The studies on physico-chemical properties of insecticides. I-II. (In Japanese.) *Botyuu-Kagaku* 15:134-148. Sept. 1950. 421 B65  
English summary.
- I. The measuring method of practical properties of insecticidal dusts and carriers, by N. Oda and T. Hayashi, p. 134-140; II. The properties of insecticidal dusts and carriers of several makers, by N. Oda, M. Harada, and T. Yabu, p. 140-148.
- 30286 OMER-COOPER, J., and WHITEHEAD, G. B. Studies on the biological control of red scale [*Aonidiella aurantii*] in the eastern Cape Province. VII. *Citrus Grower* 203:5-6. Dec. 1950. 80 C495
- 30287 ONO, M., and NAKAYAMA, H. Studies on the joint action in insecticides. I-II. On the synergistic action of safrol derivatives for pyrethrins. (In Japanese.) *Botyuu-Kagaku* 15:155-175. Ref. Sept. 1950. 421 B65  
English summary.
- I, by M. Ono, p. 155-170; II, by H. Nakayama, p. 171-175. Part II involves experiments with *Stephanitis nashi* and *Phaedon brassica*.
- 30288 O'ROURKE, F. J. The dangers of the carriage of insects by aircraft and a suggested precautionary measure. *Internatl. Cong. Ent. Proc.* 8:946-947. 1950. 422 C76
- 30289 PACKARD, C. M. Insect pests of soybeans and their control. *Soybean Digest* 11(4):14-18. Feb. 1951. 60.38 So9
- 30290 PAL, R. The wetting of insect cuticle. "Fundamental studies on insecticides." *Internatl. Cong. Ent. Proc.* 8:936-937. 1950. 422 C76
- 30291 PARKIN, E. A. Control of stored products insects with contact insecticides. *Internatl. Cong. Ent. Proc.* 8:834-837. 1950. 422 C76
- 30292 PEREZ, R. Les insectes parasites des cruciferes maraicheres. *Rev. Hort.* 122:250-255. Nov. 1950. 80 R32
- 30293 PORTER, B. A. Safety in using parathion. *Mountaineer Grower* 20(183):5-7, 10-11. Dec. 1950. 80 M86
- 30294 PORTER, B. A. Trends in orchard insect control. *Amer. Fruit Grower* 71(2):15, 40-41. Feb. 1951. 80 G85
- 30295 PRISIAZHNIK, A. A. Pests and diseases of the group plantings of oak and measures for their control. (In Russian.) *Sovet. Agron.* 8(10):88-91. Oct. 1950. 20 So84
- 30296 RAO, N. V. S., and POLLARD, A. G. Photodecomposition of rotenone in spray deposits. I. Colorimetric determination of rotenone in spray deposits and residues. *J. Sci. Food & Agr.* 1:367-371. Dec. 1950. 382 So12
- 30297 RAŠEK, J. M. The International Committee for Applied Entomology. *Internatl. Cong. Ent. Proc.* 8: 802-803. 1950. 422 C76
- 30298 RIEMSCHEIDER, R., and OTTMANN, G. Über das sogenannte "5-hexachlor-cyclohexan." III. *Z. f. Naturf.* 5b:307-338. Ref. Aug./Sept. 1950. 474 Z3
- 30299 RIPPER, W. E. The development of an entomological industry in Britain and the British Commonwealth. *Internatl. Cong. Ent. Proc.* 8:100-105. 1950. 422 C76  
Work of Pest Control Limited.
- 30300 ROEGNER-AUST. Die wirkung von kontaktinsektiziden auf fische. (Abs.) *Angew. Chem.* 62:177. Apr. 6, 1960. 384 Z33
- 30301 ROMANO, E. The dehalogenation by reduction in an acid environment of chlorinated organic insecticides. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:1145-1157. 1950. 16 An76  
English summary.
- 30302 SAN ROMÁN, G. D. Los parasitos de las aves y su combate. *Charla Rur.* 145:6. (Concl.) Nov. 1950. 9 C37  
Insect pests and internal parasites.
- 30303 SCURTI, F. The industry of benzene hexachloride in Italy. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:1121-1143. 1950. 16 An76  
English summary.
- 30304 SHVETSOVA, A. N. Glavnyeshie vrediteli plodovo-fagodnykh kul'tur v Omskoj oblasti i bor'ba s nimi [Most important pests of fruit and berry crops in Omsk Region and measures for their control]. Omsk, Omskoe Obl. Gos. Izd-vo, 1950. 67 p. 423 Sh9
- 30305 SILVESTRI, F. The problems of biological control in continental Europe. (In Italian.) *Lab. di Ent. Agr. B.* 9:122-139. 1949. 420 P82B
- 30306 SOLAROLI, V. Spring spraying. (In Italian.) *Agr. Ferrarese* 54:79. Mar. 31, 1950. 16 Ag87  
For insect control.
- 30307 SPOON, W. Controle des composants des poudres a base de derris. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):496. 1950. 388 C765
- 30308 STUTZ, L. Über die gehaltsdeklaration der insektiziden präparate. *Z. f. Hyg. Zool. u. Schädlingsbekämpf.* 38:264-265. Sept. 1950. 449.8 Z36
- 30309 TAKAHASHI, Y. Nogyo gaichu-hen [Damage of insects in agriculture]. Tokyo, Yokendo, 1950. 419 p. 423 T13
- 30310 TILEMANS, E. J. Mode d'action de certains insecticides de contact. *Cong. Internatl. des Indus. Agr. Rap.* 8(1):195-204. 1950. 388 C765
- 30311 TISCHLER, W. Die überwinterungsverhältnisse der landwirtschaftlichen schädlinge. *Z. f. Angew. Ent.* 32: 184-194. Nov. 1950. 421 Z36



30312 UEDA, K. The influences of the wave length of light on the synthesis of 1,2,3,4,5,6-hexachlorocyclohexane and the quantum yield. (In Japanese.) Botyukagaku 15:149-155. Sept.1950. 421 B65  
English summary.

30313 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. List of entomological (E-series) publications 782 to 811. U. S. Bur. Ent. & Plant Quar. E-812, 4 p. Jan.1951. 1.9 En83

30314 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. List of entomological technique (ET-series) publications 271 to 291. U. S. Bur. Ent. & Plant Quar. ET-292, 2 p. Jan.1951. 1.9 En83Et

30315 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. List of publications of the Division of Insecticide Investigations for the period July 1, 1950 to December 31, 1950, by R. C. Roark. Washington, 1950. 3 p. 1.9 En866P

30316 VALDES BARRY, F. Nuevos insecticidas: aldrin (compuesto 118). Agrotecnia 4:28-32. Sept./Dec. 1950. 8 Ag825

30317 VAYSSIERE, P., and GALLAND, H. Sur trois insectes d'importance économique encore peu connus en Afrique Française. Internatl. Cong. Ent. Proc. 8:699-701. 1950. 422 C76

Pachydiplosis oryzae and Laphygma exempta on rice; Heteronychus claudius on coffee and yams.

30318 VELBINGER, H. Zur kenntnis der wirkungsweise von organischen phosphorverbindungen als insektizide. Internatl. Cong. Ent. Proc. 8:953-957. Ref. 1950. 422 C76

30319 VOLKOV, A. N. Protection of tree and shrub seeds from pests and diseases. (In Russian.) Sovet. Agron. 8(10):83-88. Oct.1950. 20 So84

30320 WEBB, J. E. A physical mechanism governing the rate of penetration of contact insecticides; insect cuticle as a two-phase system. Internatl. Cong. Ent. Proc. 8:974-978. 1950. 422 C76

30321 WIESMANN, Über DDT, insbes. über den wirkungsmechanismus desselben. (Abs.) Angew. Chem. 62:176-177. Apr.6, 1950. 384 Z33

30322 WILLE T., J. E. La situación entomológica en la campaña algodona de 1949/50. Lima.Cent. Nac. de Invest. y Expt. Agr. de La Molina. Informe 70,12 p. Sept.1950. 102.5 L622in  
Peru.

30323 WILSON, G. F. Developments in glasshouse fumigation in Britain. Internatl. Cong. Ent. Proc. 8:892-909. Ref. 1950. 422 C76

30324 WILSON, G. F. Pests of flowers and shrubs. Gt. Brit. Min. Agr. & Fisheries. B. 97,105 p. 1950. 10 G794B  
Insects.

30325 ZAGO, C. Protection against crop enemies; the Antiparasitical Control Center [Rovigo]. (In Italian.) Agr. del Polesine 2:162-164. Nov.1950. 16 Ag8222  
Insect pest control.

30326 ZIPPÉLIUS, H. A. Erleichterte schädlingbekämpfung. Gartenjahr 5:23-24. Feb.1950. 80 G1932

30327 ZWÖLFER. Forstentomologische nachkriegsprobleme in Süddeutschland. (Abs.) Angew. Chem. 62:176. Apr.6, 1950. 384 Z33

#### APICULTURE AND APIS MELLIFERA

30328 ADAMI, G. Enemies of bees: swallows? (In Italian.) Apic. d'Italia 17:79-80. Apr.1950. 424.8 Ap372

30329 ALBENBAUER, J. Pollenwaben-pollenhilfe. Deut. Bienenztg. 5:200-201. Nov.1, 1950. 424.8 D488

30330 ALONSO MOLINA, R. El pillaje en el colmenar. B. de Zootecnia 6:335-337. Oct.1, 1950. 41.9 So16

30331 ANDERSON, C. N. Stings and liftings. Scot. Beekeeper 26:238. Dec.1950. 424.8 Sco8  
Equipment.

30332 ANDERSON, E. J. 1950 is hectic season for many State beekeepers. Pa. Beekeeper 25(4):12-13. Dec. 1950. 424.8 P38

30333 ANDREATTA, A. The legend of the clover. (In Italian.) Apic. d'Italia 17:36. Feb.1950. 424.8 Ap372

30334 ANTONELLI, P. Witty conversation between two companions: the novice and the expert. (In Italian.) Apic. d'Italia 16:215-216;17:109. (Cont.) Dec.1949, May 1950. 424.8 Ap372

30335 BARAS, A. Comment défendre nos abeilles des maladies? Synd. Apic. d'Artois et du Nord de la France. B. Mens. 6:250-255. Aug./Sept.1950. 424.9 Sy7

30336 BARAS, A. Introduction des mères fécondées reçues en cages. Synd. Apic. d'Artois et du Nord de la France. B. Mens. 6:231-235. Aug./Sept.1950. 424.9 Sy7

30337 BARAS, A. Le pillage. Synd. Apic. d'Artois et du Nord de la France. B. Mens. 6:239-244. Aug./Sept. 1950. 424.9 Sy7

30338 BARAS, A. L'union en apiculture; facteur favorable à son évolution. Synd. Apic. d'Artois et du Nord de la France. B. Mens. 6:294-297. Nov.1950. 424.9 Sy7

30339 BELDAME, R. Le couvain en écumeoire et la nosémose. Synd. Apic. d'Artois et du Nord de la France. B. Mens. 6:237-239. Aug./Sept.1950. 424.9 Sy7

30340 BELT, J. B. M. VAN DEN. Bijenteelt [Apiculture]. Ed. 2. Groningen, Noordhoff, 1950. 116 p. (E. L. T. O. Ser. No. 10) 424 B415

30341 BERRILL, N. J. Charade of the honeybee. One of the most breath-taking discoveries of recent years is that a bee can "draw a flight map" and tell its hivemates where to find the honey. Nat. Hist. 60:68-71. Feb.1951. 500 N483J

30342 BLIZNIUK, P. Winter management of bees in open and in winter quarters. (In Russian.) Pchelovodstvo 7:391-392. Aug.1950. 424.8 P295

30343 BLUM, J. The use of earthen beehives. (In Hebrew.) Hassadeh 31:114-115. Nov./Dec.1950. 26 H27

30344 BOAN, J. Put the bee on legumes. Nebr. Farmer 93(2):7,21. Jan.20, 1951. 6 N27  
Honey bees as pollinators.

30345 BONIFACIO. Revolutionary apiculture; starting the skyscraper. (In Italian.) Apic. d'Italia 17:158-160. July/Aug.1950. 424.8 Ap372

30346 BURTOV, V. Effect of temperature on the development of honeybee eggs. (In Russian.) Pchelovodstvo 7:399-400. Aug.1950. 424.8 P295

30347 CALE, G. H., JR. What price color? Amer. Bee J. 91:58-60. Feb.1951. 424.8 Am3  
Comparison of bee races.

30348 CHVYREV, A. F. Wintering of bees in the ground [dug-outs and pits]. (In Russian.) Pchelovodstvo 7:434. Aug.1950. 424.8 P295

30349 COLLINS, W. A. Swarm control. Austral. Bee J. 31:219-221. Oct.1950. 424.8 V66

30350 COTINI, A. Isolation or organization? (In Italian.) Apic. d'Italia 17:87. Apr.1950. 424.8 Ap372

30351 COUTURIER, A. L'apiculture de la region landaise (France Sud-Ouest). Internatl. Cong. Ent. Proc. 8:58-65. 1950. 422 C76

30352 CRISTIANO, M. Highlights of beekeeping technique; the instinct of the bees in the division of labor. (In Italian.) Apic. d'Italia 16:194-196;17:58,83-84,134-135,164-166,214-217. (Concl.) Nov.1949, Mar-Apr., June-July/Aug., Oct.1950. 424.8 Ap372

30353 CROW, J. F., and ROBERTS, W. C. Inbreeding and homozygosis in bees. Genetics 35:612-621. Ref. Nov.1950. 442.8 G28

30354 CURY, R. Diseases of adult bees. 1-4. (In Portuguese.) Biológico 16:83-90. Apr.1950. 442.8 B529  
1, Nosema disease; 2, Amebiasis (Malpighamoeba mellificae); 3, Septicemia (Bacillus alisepticus); 4, Paratyphus (Salmonella schottmülleri alisei).

30355 DÄCHSEL, O. Rassensorgen. Bienenwarte 3:294,299. Nov.25-Dec.10, 1950. 424.8 B4722

30356 DADANT, M. G. American foulbrood; prevalence in U. S. and Canada; comparisons from 1925 to 1949; reasons for improvement. Amer. Bee J. 91:63-65. Feb.1951. 424.8 Am3

30357 DAMMANN, K. Zwei findlinge mit einem schlag. Niedersächs. Bienenfr. 1950:251. Sept.1950. 424.8 N552

30358 DAVIES, E. J. Queen quest. Welsh Bee J. 5:181-183. Dec.1950. 424.8 W462

30359 DAVIES, P. G. Novice's saga. Welsh Bee J. 5:188-189. Dec.1950. 424.8 W462

30360 DEANS, A. S. C. The best bee hive. Scot. Beekeeper 26:236-237. Dec.1950. 424.8 Sco8

30361 DEFORT DES YLOUSES, G. Beekeeping in France. Mod. Beekeeping 35:383-385. Nov.15, 1950. 424.8 B397

30362 DEYELL, M. J. Four ones are four. Gleanings Bee Cult. 79:81-84. (To be cont.) Feb.1951. 424.8 G47  
Migratory beekeeping experiences in 1914.



- 30363 DIEMER, G. Wintering and nosema. *Scot. Beekeeper* 26:241. Dec.1950. 424.8 Sco8
- 30364 DUGAT, M. L'élevage des reines simplifié. *Cahiers Apic.* 1950:39-54. July/Sept.1950. 424.8 C73
- 30365 DUGAT, M. Le paysan apiculteur. *Cahiers Apic.* 1950:29-30. July/Sept.1950. 424.8 C73
- 30366 ECKERT, J. E. An unusual opportunity. *Gleanings Bee Cult.* 79:78-80. Feb.1951. 424.8 G47
- Apiculture on the island of Lanai, T.H.
- 30367 EDWARDS, W. K. Queen-rearing. *Welsh Bee J.* 5:186-187. Dec.1950. 424.8 W462
- 30368 FELL, P. The disadvantages of the sulphur treatment for acarine disease, as compared with the Frow treatment. *Irish Beekeeper* 4:246-247. Dec.1950. 424.8 Ir42
- 30369 FORESTI, C. Like before or worse than before before? (In Italian.) *Apic. Mod.* 41:335-336. Dec.1950. 424.8 Ap39
- Comment on proposed legislation.
- 30370 FOSSATI, L. Notes on cutting the wings of the queen. (In Italian.) *Apic. d'Italia* 16:211-212. Dec.1949. 424.8 Ap372
- 30371 FOSSATI, L. The sting of the bee. (In Italian.) *Apic. d'Italia* 17:147-151. July/Aug.1950. 424.8 Ap372
- 30372 FRASER, H. M. The new catalogue of the Moir library. *Scot. Beekeeper* 26:240-241. Dec.1950. 424.8 Sco8
- Bee books.
- 30373 FRENCH, G. T. Bees and commercial apple production. *Va. Fruit* 39:10-11. Jan.1951. 81 V81B
- 30374 FRISCH, K. VON. Bees; their vision, chemical senses, and language. Ithaca, N.Y., Cornell U. Press, 1950. 119 p. 424 F91B
- 30375 GAILLARD, R. Une boussole pour l'infini. *Gaz. Apic.* 51:265-267. Nov.1950. 424.8 G25
- Bees as a source of inspiration.
- 30376 GAILLARD, R. Pensées d'automne devant la ruche. *Cahiers Apic.* 1950:15-19. July/Sept.1950. 424.8 C73
- 30377 GALANOV, A. M., and TROITSKAIA, E. P. Practices of the leader, D. A. Batalov. (In Russian.) *Pchelovodstvo* 7:438-439. Aug.1950. 424.8 P295
- Colony management.
- 30378 GALETTI, L. Between bees and cells - analogies. (In Italian.) *Apic. d'Italia* 17:125. June 1950. 424.8 Ap372
- 30379 GARCÍA LLUCH. Trabajo sobre el concurso de la epizootia apícola. *Valencia Avic.* 7(8):31-32; (9):29-34. (Cont.) Sept.-Oct.1950. 47.8 V23
- 30380 GOROSTIDI Y MAZ, A. Desamparo. *Valencia Avic.* 7(6):26-28. July 1950. 47.8 V23
- Situation of apiculture in Spain.
- 30381 GOROSTIDI Y MAZ, A. El excluder de reinas. *Valencia Avic.* 7(6):28-31. (Concl.) July 1950. 47.8 V23
- 30382 GRAN, W. T., JR. Bees for pollinating legumes. *Gleanings Bee Cult.* 79:73-77. Feb.1951. 424.8 G47
- 30383 GUILHON, J. Myiases des abeilles. *Rec. de Méd. Vét.* 126:641-660. Ref. Nov.1950. 41.8 R24
- Adult bees parasitized by *Myiapis angelozii*, *Melaloncha rönai*, *Sarcophaga surrubea*, and *Senotainia tricuspidis*; larvae by *Borophaga intransata* and *Phora* sp.
- 30384 GUNTHER, R. Das für und wider der stock-beheizung. *Deut. Bienenztg.* 5:197-198. Nov.1, 1950. 424.8 D488
- 30385 HAYDAK, M. H. How long does a bee live after losing sting. *Gleanings Bee Cult.* 79:85-86. Feb.1951. 424.8 G47
- 30386 HENNING, J. Vererbung und umwelt. *Bienen-warte* 3:287-289. Nov.25, 1950. 424.8 B4722
- 30387 HESSBERG, H. V. Erfahrungen auf der Inselbelegstelle Hooze. *Deut. Bienenztg.* 5:189-192, 206-210. Nov.1-Dec.1, 1950. 424.8 D488
- 30388 IELPO, J. B. Fecundación artificial o manual de la reina. *Selec. Rur.* 6:20-22. Oct./Dec.1950. 9.9 Se4
- 30389 JACQUINOT, R. La mise en hivernage au rucher. *Réveil Agr.* 60(2594):7. Jan.1, 1951. 14 R322
- 30390 JARVIS, D. C. The use of honey to relieve migraine. *Amer. Bee J.* 91:61. Feb.1951. 424.8 Am3
- 30391 JENSEN, K. How I practice the two queen system. (In Norwegian.) *Nord. Bitidskr.* 2:113-115. 1950. 424.8 N752
- 30392 JORDAN, R. Über natürliche hilfsmassnahmen im kampf gegen die milbe. *Niederösterr. Imker* 1:203-214, 236-239. Aug.-Sept.1950. 424.8 N55
- 30393 JOURDE, P. Quelques considérations à propos de "la ruche en verre Thermolux bleu". *Cahiers Apic.* 1950:36-38. July/Sept.1950. 424.8 C73
- 30394 KELLEY, W. T. The Kelley's visit beekeepers in the Northwest. *Mod. Beekeeping* 35:360-375. Nov.15, 1950. 424.8 B397
- 30395 KETTLEWELL, N. H. The second chamber. *Welsh Bee J.* 5:184-185. (To be cont.) Dec.1950. 424.8 W462
- Brood chambers.
- 30396 KHALIFMAN, I. A. Something new on the flight and training of honeybees. (In Russian.) *Pchelovodstvo* 7:415-418. Aug.1950. 424.8 P295
- For pollination.
- 30397 KIRK, H. B. Apiary inspectors complete busiest year, more colonies inspected than ever before. *Pa. Beekeeper* 25(4):2-3. Dec.1950. 424.8 P38
- 30398 KIRKOR, S. On the occurrence of Isle of Wight disease in bees. (In Polish.) *Med. Weter.* 6:406-408. July 1950. 41.8 M463
- 30399 KLEEMANN, C. W. Auf wieviel waben muss ich meine völker einwintern? *Deut. Bienenztg.* 5:201-202. Nov.1, 1950. 424.8 D488
- 30400 KLIMENKO, G. D. Standardization of apicultural equipment. (In Russian.) *Pchelovodstvo* 7:406-410. Aug.1950. 424.8 P295
- 30401 KORMILITSYN, A. P. Experiment in shading beehives. (In Russian.) *Pchelovodstvo* 7:432-433. Aug. 1950. 424.8 P295
- Study of effect of sunlight on development of honeybee colony.
- 30402 LACRAMPE-QUINTA. Le paquet d'abeilles de Renfort. *Rev. Franç. d'Apic.* (ser.2)59:8. Nov.1950. 424.8 R329
- 30403 LEPORATI, E. An odd maternal cell. (In Italian.) *Apic. d'Italia* 17:52. Mar.1950. 424.8 Ap372
- 30404 LINDHOLM, R. Observations on electric heating of beehives. (In Swedish.) *Nord. Bitidskr.* 2:123-125. 1950. 424.8 N752
- 30405 LUNDER, R. The two queen system. (In Norwegian.) *Nord. Bitidskr.* 2:107-112. 1950. 424.8 N752
- 30406 MANNING, F. J. Sex-determination in the honey bee. VIII. The formation of cytoplasmic buds. *Microscope* 8:63-66. Sept./Oct.1950. 440.8 M582
- 30407 MÁRKI, F. Meine königinnenzucht. *Schweiz. Bienen-Ztg.* 73:544-545. Dec.1950. 424.8 Sch9
- 30408 MAURIZIO, A. Bericht über den Stockholmer Botaniker-Kongress 1950 und den besuch von bieneninstituten in Dänemark und Schweden. *Schweiz. Bienen-Ztg.* 73:559-565. Dec.1950. 424.8 Sch9
- 30409 MAURIZIO, A. Influence du pollen sur la longévité et l'état physiologique des abeilles. *Rev. Franç. d'Apic.* (ser.2)59:10. Nov.1950. 424.8 R329
- 30410 MEDICI, M. Experiment on acarasis of bees. (In Italian.) *Apic. d'Italia* 17:23-24. Feb.1950. 424.8 Ap372
- 30411 MELTON, C. J. Apiarists must reorganise their apiary set-up. *Australas. Beekeeper* 52:171-172. Nov.15, 1950. 424.8 Au72
- 30412 MIELLET, R. Ma ruche de fécondation. *Rev. Franç. d'Apic.* (ser.2)60:462. Dec.1950. 424.8 R329
- 30413 MIELLET, R. Une ruche peut-elle se défendre contre les souris. *Rev. Franç. d'Apic.* (ser.2)59:7. Nov. 1950. 424.8 R329
- 30414 MJAAVATN, A. The contact system. (In Norwegian.) *Nord. Bitidskr.* 2:116-117. 1950. 424.8 N752
- Colony management.
- 30415 MOHR, O. Die biologisch fest fundierte betriebsweise. *Deut. Bienenztg.* 5:210. Dec.1, 1950. 424.8 D488
- 30416 MOREAUX, R. Influence de mode de nourrissent sur les troubles digestifs de l'abeille. *Gaz. Apic.* 51:254-255, 261. Nov.1950. 424.8 G25
- 30417 MORGENTHAU, O. Rassenzucht und krankheitsbekämpfung bei den bienen. *Schweiz. Bienen-Ztg.* 73:550-558. Dec.1950. 424.8 Sch9
- 30418 MÜLLER, E. Unterstützungen des Oesterr. Imkerbundes. *Niederösterr. Imker* 1:261-264. Oct.1950. 424.8 N55
- 30419 MUZZATI, G. Bees and the law. (In Italian.) *Apic. d'Italia* 17:95-96. May 1950. 424.8 Ap372
- 30420 MUZZATI, G. Two decrees. (In Italian.) *Apic. d'Italia* 17:119-120. June 1950. 424.8 Ap372
- 30421 NEVADA. STATE APIARY COMMISSION. Biennial report, for the period July, 1948, to June 30, 1950, inclusive. Carson City, 1950. 6 p. 424.9 N41



- 30422 NEWALD, E. Wieder einmal ein bienenprozess. Niederöstr. Imker 1:268-272. Oct.1950. 424.8 N55
- 30423 NICAISE, A. La standardisation. Synd. Apic. d'Artois et du Nord de la France. B. Mens. 6:302-305. (Cont.) Nov.1950. 424.9 Sy7  
Beekeeping equipment.
- 30424 PAGNANELLI, V. Bees are intelligent beings? (In Italian.) Apic. d'Italia 17:47-48. Mar.1950. 424.8 Ap372
- 30425 PAGNANELLI, V. A little of the history of apiculture. (In Italian.) Apic. d'Italia 17:175-180. Sept. 1950. 424.8 Ap372
- 30426 PAGNANELLI, V. Rational beekeeping among the Romans. (In Italian.) Apic. d'Italia 17:143-146. July/Aug.1950. 424.8 Ap372
- 30427 PERREAULT, E. F. Bee hunting in winter-time. Gleanings Bee Cult. 79:20-21. Jan.1951. 424.8 G47
- 30428 PESCHETZ, H. Züchten wir richtig? II. Luxemburg. Bienen-Ztg. 65:173-179. Nov.1950. 424.8 L97
- 30429 PESCIO, M. S. Colocación de alzas y construcción de panales. Chacra 21(242):50-51. Jan.1951. 9 C34
- 30430 PFEIFER, G. The closed beehive during the winter. (In Italian.) Apic. d'Italia 17:13-14. Jan.1950. 424.8 Ap372
- 30431 POLTEV, V. I. In regard to organizing measures for the control of honeybee diseases. (In Russian.) Pchelovodstvo 7:425-428. Aug.1950. 424.8 P295
- 30432 POTAPOV, P. P. How I control senetainiasis [in bees]. (In Russian.) Pchelovodstvo 7:435-436. Aug. 1950. 424.8 P295
- 30433 PROTASOV, AKLANOV, and NIKITIN, A. I. Swarmer—portable box. I-II. (In Russian.) Pchelovodstvo 7:397-398. Aug.1950. 424.8 P295  
I, by Protasov and Aklanov; II, by A. I. Nikitin.  
For capturing swarming bees.
- 30434 PUY, E. DE. Hablan las abejas? Mensajero Agr. 51/52:21-22. July/Aug.1950. 9.8 M52
- 30435 PUY, E. DE. La perfecta colmena ayuda y facilita la obra de las abejas. Mensajero Agr. 50:31-32. June 1950. 9.8 M52
- 30436 RAUTENBERG, H. J. Futtergeräte. Deut. Bienenztg. 5:194-197. Nov.1, 1950. 424.8 D488
- 30437 RAUTENBERG, H. J. Grundsätzlich betrachten zu einer aussprache über die erfolge verschiedener betriebsweisen. Deut. Bienenztg. 5:211-212. Dec.1, 1950. 424.8 D488
- 30438 RENZO, R. DI. Bee note from Abruzzo. (In Italian.) Apic. d'Italia 17:101-102. May 1950. 424.8 Ap372  
American foulbrood.
- 30439 RHEINHEIMER, O. Die elektrische stockheilung. I-II. Deut. Bienenztg. 5:193-194, 212-214. Nov.1-Dec.1, 1950. 424.8 D488
- 30440 RIBBANDS, C. R. Changes in the behaviour of honey-bees following their recovery from anaesthesia. J. Expt. Biol. 27:302-310. Ref. Dec.1950. 424.8 B77
- 30441 RINDLISBACHER, W. Okullerkäfige mit abspergitter. Schweiz. Bienen-Ztg. 73:579-580. Dec. 1950. 424.8 Sch9
- 30442 RUBICZEK, H. Das bienengift. Niederöstr. Imker 1:272-274. Oct.1950. 424.8 N55
- 30443 SEMCHUK, T. M. Frame waxing with the aid of electricity. (In Russian.) Pchelovodstvo 7:436. Aug. 1950. 424.8 P295
- 30444 SHISHKIN, E. A. A box for warming honeycombs. (In Russian.) Pchelovodstvo 7:396-397. Aug. 1950. 424.8 P295
- 30445 SOODER, M. Bienenhalten "zu halben". Schweiz. Bienen-Ztg. 73:566-568. Dec.1950. 424.8 Sch9
- 30446 SPERA, L. A new law for the bees. (In Italian.) Terra e Sole 100:405-406. Dec.1950. 16 T273  
Italy.
- 30447 STREETER, J. R. Honey bees will look for jobs making more seed in Southwestern legume fields. Farmer-Stockman 54:11,42. Jan.1951. 6 Ok45
- 30448 SUMPFF, K. C. Der weg voraus—beziehungen zwischen wabenbau, wärmehaushalt und bienenwohnung. I-II. Bienenwarte 3:286,298. Nov.25, Dec.10, 1950. 424.8 B4722
- 30449 SYNZYNYNS, B. Z. Economic effectiveness of large apiaries on collective farms. (In Russian.) Pchelovodstvo 7:402-406. Aug.1950. 424.8 P295
- 30450 TAAFFE, J. Take your bees to the forage. Irish Beekeeper 4:231. Dec.1950. 424.8 Ir42
- 30451 TEMNOV, V. A. Drop method for quantitative determination of honeydew in honey. (In Russian.) Pchelovodstvo 7:387-390. Aug.1950. 424.8 P295
- 30452 TOL FILHO, P. L. VON. Installation of an apiary. (In Portuguese.) Seleç. Agr. 5(56):33-35. Dec. 1950. 9.2 Se4  
Construction and placement of beehives.
- 30453 TOUMANOFF, C. Les maladies des abeilles. Rev. Franç. d'Apic. (ser.2)60:458-459. Dec.1950. 424.8 R329
- 30454 TRAMONTANO, T. The end of the nuptial flight. (In Italian.) Apic. d'Italia 17:129. June 1950. 424.8 Ap372
- 30455 TURSUKOV, V. K. Utilization of swarms in the honey flow. (In Russian.) Pchelovodstvo 7:433. Aug. 1950. 424.8 P295
- 30456 ULANOV, G. G. Formation of nuclei with field bees. (In Russian.) Pchelovodstvo 7:433-434. Aug. 1950. 424.8 P295
- 30457 VAGLIASINDI, P. A. The crisis in apiculture and the national economy. (In Italian.) Apic. d'Italia 16:186-188, 205-206; 17:30-33, 49-51. (Concl.) Nov.-Dec. 1949, Feb.-Mar.1950. 424.8 Ap372
- 30458 VOROSHIL'SKIĬ, A. YA. Timely preparation of honeybees for wintering. (In Russian.) Pchelovodstvo 7:385-386. Aug.1950. 424.8 P295
- 30459 WAHLIN, B. Effect of modern economic poisons on bees. (In Swedish.) Nord. Bitidskr. 2:118-123. Ref. 1950. 424.8 N752
- 30460 WENCKEBACH, W. E. Méthode des nids dégagés et pourvoyeurs. Cahiers Apic. 1950:3-14. July/Sept.1950. 424.8 C73
- 30461 WINKLER, W. Buckelbrütig - drohenbrütig - fehlbrütig. Deut. Bienenztg. 5:217-218. Dec.1, 1950. 424.8 D488
- 30462 WINKLER, W. Der holzstrohständer als volksbienenstock. Deut. Bienenztg. 5:199-200. Nov.1, 1950. 424.8 D488
- 30463 WINTER, H. Umweiselung mit ermatteten königinnen. Bienenwarte 3:289. Nov.25, 1950. 424.8 B4722
- 30464 WITSCHI, F. Königin mit begleitbienen zieht wieder in das entweiselte zuchtvolk zurück. Schweiz. Bienen-Ztg. 73:545-547. Dec.1950. 424.8 Sch9
- 30465 WOODROW, A. W. Split-section foundation jig. Amer. Bee J. 91:62. Feb.1951. 424.8 Am3
- 30466 WULFRATH, A., and SPECK, J. J. De la colmena antigua al lucrativo negocio de la colmena moderna. Tierra [México] 6:29-31, 57-58. (Cont.) Jan.1951. 8 T445
- 30467 ZANDER, E. La palinologia al servicio del estudio de la miel. An. de Edafologia y Fisiol. Veg. 9:195-209. Mar./Apr.1950. 506 Sp12
- 30468 ZIEGLER, R. J. Beginner's department; wintering. Mod. Beekeeping 35:376-378, 385. Nov.15, 1950. 424.8 B397
- 30469 ZIKOWSKY, F. Vorteil triebt das handwerk! Niederöstr. Imker 1:274-276. Oct.1950. 424.8 N55  
Apiculture.

## ARACHNIDA, MYRIAPODA, ETC.

- 30470 ANTHON, E. W. New insecticides check mites, aphids on stone fruits. Better Fruit 45(8):37-39. Feb. 1951. 80 B46
- 30471 AUERBACH, S. I. The centipedes of the Chicago area with special reference to their ecology. Ecol. Monog. 21:97-124. Ref. Jan.1951. 410 Ec72
- 30472 AULT, C. N. El empleo del canfeno clorado (toxafeno) contra la garrapata Boophilus microplus Can. Gac. Vet. 12:208-213. Sept./Oct.1950. 41.8 G112  
English summary.
- 30473 BALTAZARD, M., BAHMANYAR, M., and SAFAYI, G. Sur les différences de taille observées chez l'Ornithodoros erraticus. Soc. de Path. Exot. B. 43:444-449. 1950. 448.9 So13
- 30474 BEIER, M. Zur phänologie einiger Neobisiumarten (Pseudoscorp.). Internatl. Cong. Ent. Proc. 8:1002-1007. 1950. 422 C76
- 30475 BESSELIING, A. J. Netherlands Hydrachnellae. XXIX. (In Dutch.) Ent. Ber. 13:185-188. Dec.1, 1950. 420 N38B  
Includes new forms in Frontipoda and Tiphys.
- 30476 CALEF, R. T. A bit about spiders. Amer. Childhood 36(6):62. Feb.1951. 320.8 Am3



- 30477 CHAMBERLIN, R. V., and HOFFMAN, R. L. On some genera and families of North American diplopods. Nat. Hist. Misc. 71,7 p. Oct.31,1950. 500/C43Na  
New families: Nearctodesmidae, Bactropidae and Choctellidae; new genera: Utadesmus, Thrinaxoria, Cibularia, and Orthichelus.
- 30478 CONDÉ, B. Un Diplopede nouveau pour la France. Entomologiste 6:109-116. Ref. July/Oct.1950. 421 En814  
Polyxenus lapidicola.
- 30479 COOREMAN, J. Sur un acarien nouveau, préjudiciable aux matières alimentaires entreposées: Mealla maynei n. sp. Soc. Ent. de Belg. B. et Ann. 86: 164-168. June 30,1950. 420 B41
- 30480 CRANE, J. Comparative biology of salticid spiders at Rancho Grande, Venezuela. V. Postembryological development of color and pattern. Zoologica 35:253-261. Ref. Dec.30,1950. 410 Z722
- 30481 DRESCO, E. Note sur les facteurs physiques conditionnant la présence des araignées dans le domaine souterrain. Entomologiste 6:128-131. July/Oct.1950. 421 En814
- 30482 DRESCO, E. Note sur Sitticus longipes (Aran. Salticidae) Canestrini. Soc. Ent. de France. B. 55:40-42. Mar.1950. 420 F84B
- 30483 DRESCO, E. Un opilion nouveau. Soc. Ent. de France. B. 54:40-42. Mar.1949. 420 F84B  
In Fagea n.g.
- 30484 EXLINE, H. Conopisthine spiders (Theridiidae) from Peru and Ecuador. In Hatch, M. H., ed. Studies honoring Trevor Kincaid, p.108-124. Ref. Seattle, U. Wash. Press,1950. 409 H28  
New species in Neosiphonurus n.g., Topo n.g., Rhomphaea, and Synotaxus.
- 30485 EXLINE, H. Spiders of the Rhoicininae (Pisauridae) from western Peru and Ecuador. Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1470,13 p. Oct.23, 1950. 500 N483N  
New species in Rhoicinus and Rhoicinaria n.g.
- 30486 EYNDHOVEN, G. L. VAN. Some acarological results of the Netherlands chiropterological research (Chiropterological notes No. 26). Internatl. Cong. Ent. Proc. 8:1008-1011. 1950. 422 C76
- 30487 FLESCNER, C. A. Studies on searching capacity of the larvae of three predators of the citrus red mite [Paratetranychus citri]. Hilgardia 20:233-265. Oct.1950. 100 C12H  
Stethorus pictipes, Chrysopa californica, and Conwentzia hageni.
- 30488 HALL, A. V. Short history of tick [Boophilus annulatus] eradication in the British Virgin Islands. Amer. Vet. Med. Assoc. J. 118:108-110. Feb.1951. 41.8 Am3
- 30489 HAMILTON, A. The blackberry mite (Aceria essigi). New Zeal. J. Sci. & Technol. A, Agr. Res. Sect. 31(2):42-45. Ref. Aug.1949. 514 N48A
- 30490 HOLLOWDAY, E. D. Freshwater life; notes on the Hydracarina (water mites). Microscope 8:57-63. Ref. Sept./Oct.1950. 440.8 M584
- 30491 HULL, J. E. British spiders—new and rare. Ann. & Mag. Nat. Hist. (ser.12)4(37):93-96. Jan.1951. 410 An77  
Includes new species in Drassodes.
- 30492 HUMES, A. G., and JAMNBACK, H. A. Najadocola ingens (Koenike), a water-mite parasitic in freshwater clams. Psyche 57:77-87. Sept.1950. 421 P95
- 30493 JEEKEL, C. A. W. Note on Spirobolus surinamensis Bollman. Ent. Ber. 13:174. Nov.1,1950. 420 N38B
- 30494 JONES, B. M. The sensory physiology of the harvest mite Trombicula autumnalis Shaw. J. Expt. Biol. 27:461-494. Ref. Dec.1950. 442.8 B77
- 30495 KIRSCH, E. Pathologische lungenveränderungen beim rhesusaffen, hervorgerufen durch Pneumonyssus simicola (Acarina). Z. f. Parasitenk. 14:626-636. 1950. 442.8 Z33F
- 30496 LORDELLO, L. G. E. Preliminary notice on the action of benzene hexachloride (B.H.C. or "gammexane") and of Rhoditox on the scorpions Tityus bahiensis (Perty) and Tityus serrulatus Lutz and Mello. (In Portuguese.) Rev. de Agr. [Piracicaba] 25:367-380. Nov./Dec.1950. 9.2 R324
- 30497 LUSIS. Die obstbaumpinnmilbe (rote spinne) [Paratetranychus pilosus]. Gartenjahr 5:185. Dec.1950. 80 G1932
- 30498 MCGREGOR, E. A. Mites of the genus Neophyllobius. South. Calif. Acad. Sci. B. 49:55-70. May/Aug.1950. 500 So8
- 30499 MARPLES, M. J. The incidence of certain skin diseases in Western Samoa: a preliminary survey. Roy. Soc. Trop. Med. & Hyg. Trans. 44:319-332. Ref. Dec.1950. 448.9 R813  
Includes scabies.
- 30500 MILLIMAN, L. H. Willamette mite [Tetranychus willamettei] takes spotlight as Public Enemy No. 1 of western deciduous fruit orchardists. Better Fruit 45 (8):9-10,33. Feb.1951. 80 B46
- 30501 MORHOUSE, C. H., and KUHN, D. M. Bullis fever. Internatl. Cong. Ent. Proc. 8:860-862. 1950. 422 C76  
Transmitted by Amblyomma americanum.
- 30502 O'NEILL, W. J., and WEEKS, G. W. Thorough coverage necessary to control Willamette mite [Tetranychus willamettei]. Better Fruit 45(8):7. Feb.1951. 80 B46
- 30503 PIZA, S. DE T. Another chromosomal type of Tityus bahiensis in Ribeirão Preto. (In Portuguese.) Rev. de Agr. [Piracicaba] 25:405-407. Nov./Dec.1950. 9.2 R324  
English summary.
- 30504 PIZA, S. DE T. Reproductive organs and reproduction in Tityus bahiensis (Scorpiones-Buthidae). Internatl. Cong. Ent. Proc. 8:1026-1027. 1950. 422 C76
- 30505 REZNIK, P. A. In regard to a comparative-morphological study of tick larvae of the genus Dermacentor Koch. (In Russian.) Akad. Nauk SSSR. Dok. 75: 327-328. Nov.11,1950. 511 P444A
- 30506 SASA, M. Mites of the genus Dermatophagoides Bogdanoff, 1864 found from three cases of human acariasis. Jap. J. Expt. Med. 20:519-525. Mar.30,1950. 448.8 J272
- 30507 SAYED, T. Description of a new genus and two new species of the family Tenuipalpidae Sayed (Acarina). Internatl. Cong. Ent. Proc. 8:1018-1021. 1950. 422 C76  
New species in Aegyptobia n.g., and Brevipalpus.
- 30508 SAYED, T. Mites problems in Egypt. Internatl. Cong. Ent. Proc. 8:1022-1025. 1950. 422 C76
- 30509 SAYED, T. On the taxonomy of tetranychid and allied genera. A new family [Tenuipalpidae] and two new sub-families [Tenuipalpinae; Phytotipalpinae] in Acarina. Internatl. Cong. Ent. Proc. 8:1012-1017. 1950. 422 C76
- 30510 SCHENKEL, E. Neue Arachnoidea aus Nordtirol. Rev. Suisse de Zool. 57:757-767. Dec.1950. 410 R324  
New species in Troglodyphantes, Panamomops, and Nemastoma.
- 30511 SCHULZE, P. Über missbildungen der schildzecken im allgemeinen sowie über missbildungen von Hyalomma steineri eniklanum n. ssp. im besonderen. Z. f. Parasitenk. 14:545-573. Ref. 1950. 442.8 Z33F
- 30512 SELLNICK, M. Zwei neue milbenarten aus dem Marchfelde. Z. f. Angew. Ent. 32:275-278. Nov.1950. 421 Z36  
In Opilia and Pergamasus.
- 30513 SILVESTRI, F. Descriptions of new penicillate diplopods. I. New species of Lophoproctidae from Mexico and Peru. (In Italian.) Lab. di Ent. Agr. B. 9:1-7. 1949. 420 P82B  
New species in Lophoproctinus and Alloproctus.
- 30514 SILVESTRI, F. Segmentation of the body of Colobognathi (Diplopoda). (In Italian.) Lab. di Ent. Agr. B. 9:115-121. 1949. 420 P82B  
French summary.  
Also in Internatl. Cong. Ent. Proc. 8:571-576. 1950. 422 C76
- 30515 SMITH, L. M., and STAFFORD, E. M. Grape bud mite problem. Wines & Vines 32:18-19. Jan.1951. 95.8 C122  
Believed to be a physiological strain of Eriophyes vitis.
- 30516 STRENZKE, K. Die Belbiden Holsteins (Acarina: Oribatei). Natwiss. Ver. f. Schleswig-Holstein. Schr. 24(2):63-65. Ref. 1950. 509 K54  
Includes new species in Metabelba.
- 30517 SZYFRES, B., and TRENCHI, H. Notas parasitológicas; algunos parásitos de los roedores de laboratorio. Rev. de Med. Vet. [Montevideo] 4:929-933. Sept./Dec.1949. 41.8 R327  
Includes Cheyletiella parasitovorax on rabbits.



30518 THEILER, G. Zoological survey of the Union of South Africa. Tick survey. IV-VI. Onderstepoort J. Vet. Sci. & Anim. Indus. 24:7-51. Apr. 1950. 41.8 Onl  
IV, Distribution of *Rhipicephalus capensis*, the Cape brown tick, p. 7-32; V, Distribution of *Rhipicephalus evertsi*, the red tick, p. 33-36; VI, Distribution of the ixodids: *Ixodes pilosus* and *Ixodes rubicundus*.

30519 TURK, F. A. Myriapodological notes. III. The iatro-zoology, biology and systematics of some tropical "myriapods". Ann. & Mag. Nat. Hist. (ser. 12) 4(37):35-46. Ref. Jan. 1951. 410 An77

The effects of the bite of a Scolopendra; *Scolopendra canidens* Newport, 1844, subspecies *hamoensis*, subsp. nov.; *Trachycormocephalus occidentalis* Attems, 1909, subsp. *iraquensis*, subsp. nov.; The swarming of the millipede *Strongylosoma persicum* Humbert and Sausure, 1869; Some observations on certain specific characters of *Strongylosoma persicum*; The diplopod fauna of cassava fields, Sierra Leone, West Africa.

30520 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. The black widow spider [*Latrodectus mactans*]. Washington, 1950. 2 p. 1.967 A2B56

30521 WENE, G. P., and OTEY, G. Control of red spider mites [*Septanychus texazona*] on vegetables. Rio Grande Val. Hort. Inst. Proc. 5:16-19. 1951. 81 L95

30522 WENE, G. P. Control of the Texas citrus mite [*Eutetranychus clarki*]. Rio Grande Val. Hort. Inst. Proc. 5:83. 1951. 81 L95

30523 YOUNG, P. A., and others. Russet mite [*Vasates destructor*] damage to tomatoes in Texas in 1950. Plant Dis. Rptr. 35:54. Jan. 15, 1951. 1.9 P69P  
G. H. Godfrey, O. H. Calvert, and B. H. Richardson, joint authors.

## COLEOPTERA

30524 AGUILAR, J. D'. Nouvelles remarques sur l'attraction des adultes d'*Agriotes* (Col. Elateridae) par des bottillons de diverses plantes. Internatl. Cong. Ent. Proc. 8:334-336. 1950. 422 C76

30525 AMARAL, S. F. DO. Rice culture and "aquatic weevils" in the State of São Paulo. (In Portuguese.) Biológico 16:73-82. Apr. 1950. 442.8 B529  
*Lissorhoptrus foveolatus*, *Hydrotilmetes* sp., and *Neobagous* sp.

30526 ANTOINE, M. Notes d'entomologie marocaine, LII. A propos des *Cicindela campestris* L. et *maroccana* F. Rev. Franç. d'Ent. 17:285-290. 1950. 421 R323

30527 BASILEWSKY, P. Coléoptères Carabidae africains nouveaux. IV. Rev. de Zool. et de Bot. Africaines 43:251-259. Oct. 28, 1950. 410 R326

New species and forms in *Syleter*, *Perileptus*, *Trechodes*, *Neocolpodes*, *Ripogena*, *Proclitus*, and *Plagiopyga*.

30528 BASILEWSKY, P. Descriptions de Coléoptères Carabidae nouveaux d'Afrique et notes diverses sur des espèces déjà connues. V. Soc. Ent. de France. B. 54:142-143. Nov. 1949. 420 F84B

Includes new species in *Microcosmodes*.

30529 BASILEWSKY, P. Description de deux Carabidomemnus nouveaux du Katanga (Col. Pausiidae). Rev. de Zool. et de Bot. Africaines 43:197-202. Oct. 28, 1950. 410 R326

Includes new subgenus *Carabidomimus*.

30530 BASILEWSKY, P. Nouveaux Cossyphodides du Congo Belge (Col. Cossyphodidae). Rev. de Zool. et de Bot. Africaines 43:240-243. Oct. 28, 1950. 410 R326  
In *Cossyphodes* and *Cossyphodinus*.

30531 BECHYNE, J. Les génotypes des Eumolpides de l'Amérique du Sud et du Centre avec les diagnoses des formes nouvelles (Col. Phytoph. Chrysomeloidea). Münch. Ent. Gesell. Mitt. 40:264-292. 1950. 420 M922

New species in *Spintherophyta*, *Chrysodina*, *Neochalco-placis* n.g., *Eurysarcus*, *Callicolaspis* n.g., *Maecolaspis*, *Coytiera*, and *Chalcophana*; also *Chrysodiniopsis* n.g.

30532 BECHYNE, J. La liste des Chrysomeloidea capturés par M. W. Wittmer à Muri (Brésil). 1. Eumolpidae et Chrysomelidae. (Col.). Münch. Ent. Gesell. Mitt. 40:293-299. 1950. 420 M922

Includes new species in *Schizonoda* n.g., *Alethaxius*, *Rhabdopterus*, *Murimolpus* n.g.; also *Wittmerita* n.g.

30533 BECHYNE, J. Notes sur les Eumolpides américains (Col. Phytophaga). Münch. Ent. Gesell. Mitt. 40:245-263. 1950. 420 M922

Includes new species in *Ischyrolampra*, *Chrysodina*, *Isolepronota*, *Agbalus*, *Prionodera*, *Chalcophana*, *Endocephalus*, and *Colaspoides*.

30534 BENICK, L. Probleme un den segeberger höhlenkäfer *Choleva holsatica* L. Bck. et G. Hss. Nat-wiss. Ver. f. Schleswig-Holstein. Schr. 24(2):57-62. Ref. 1950. 509 K54

30535 BERTRAND, H. Captures et élevages de larves de Coléoptères aquatiques. (IIe note). Soc. Ent. de France. B. 55:42-48. Ref. Mar. 1950. 420 F84B

30536 BINAGHI, G. A new species of *Apomythos* from Lucania and a table for the determination of the Appennine species (Col. Pselaphidae). (In Italian.) Lab. di Ent. Agr. B. 9:243-252. 1949. 420 P82B

30537 BLACKWELDER, R. E. The Casey Room: memorial to a coleopterist. *Coleopterists' B.* 4:65-80. Oct. 1950. 421 C674

Thomas Lincoln Casey collection of beetles and library housed in U. S. National Museum.

30538 BOBACK, A. W. Vogelschutz gegen kartoffel-käfer [*Leptinotarsa decemlineata*] ? Nachrbl. f. den Deut. Pflanzenschutzdienst (n.s.) 4:217-218. Nov. 1950. 464.9 N11

30539 BOCZKOWSKA, M. Les ennemis du doryphore (*Leptinotarsa decemlineata* Say) et leur capacité destructive. Internatl. Cong. Ent. Proc. 8:597-599. Ref. 1950. 422 C76

30540 BOCZKOWSKA, M. Participation polonaise dans les recherches internationales sur le doryphore en Europe. Internatl. Cong. Ent. Proc. 8:600. 1950. 422 C76

30541 BÖHM, H. Der birnknospenstecher [*Anthonomus piri*]. Bundesanst. f. Pflanzenschutz. Flugbl. 67, 1 p. 1950. 464.9 V872F

30542 BONNEMAISON, L. La lutte contre les taupins [*Agriotes* spp.]. Internatl. Cong. Ent. Proc. 8:870-877. 1950. 422 C76

30543 BOURDON, J. Larves tératologiques de *Timarcha goettingensis* L. 3. Soc. Ent. de France. B. 54:110-112. July 1949. 420 F84B

30544 BOVINGDON, H. H. S. A bioassay technique using *Calandra granaria* [i.e. *Sitophilus granarius*] for the determination of the percentage of pure insecticide in a crude preparation. Internatl. Cong. Ent. Proc. 8:878-882. 1950. 422 C76

30545 BRAUNS, A. Ungleiches holzbohr-borkenkäfer [*Anisandrus dispar* F.] nur ein obstbaumschädling? Norddeut. Holzwart. 4(50):6. Dec. 14, 1950. 99.82 N75

30546 BRINCK, P. The beetle fauna of Tristan da Cunha. Internatl. Cong. Ent. Proc. 8:361-364. Ref. 1950. 422 C76

30547 BUCK, J. B. Control of luminescence in *Phengodes*. (Abs.) Anat. Rec. 108:609-610. Nov. 1950. 447.8 An1

30548 BUTOVITSCH, V. Erhebungen über das vorkommen des hausbockkäfers [*Hydrotripes bajulus*] in Südschweden. (Sum.) Angew. Chem. (Ausg. A) 62:540. Nov. 21, 1950. 384 Z33

30549 CLAUSEN, R. L'action hanneton 1950 dans la région de Martigny (Valais). *Phytoma* 3(20):20-21. Nov. 1950. 464.8 P563

*Melolontha melolontha*.

30550 COLAS, G. Un *Licinus* (Col. Carabidae) nouveau d'Espagne. Soc. Ent. de France. B. 54:132-133. Nov. 1949. 420 F84B

30551 CORY, E. N., and LANGFORD, G. S. The utilization of *Bacillus popilliae*, Dutky, against *Popillia japonica* Newm. Internatl. Cong. Ent. Proc. 8:883-886. Ref. 1950. 422 C76

30552 COUTURIER, A. Observations préliminaires sur la biologie d'un nematode (Mermithidae) parasite de la larve du hanneton commun (*Melolontha melolontha* L.). Internatl. Cong. Ent. Proc. 8:637-639. 1950. 422 C76

30553 DOLLFUS, R. P., and THÉODORIDES, J. Mermithidé (Nematoda) chez un *Anthaxia quadripunctata* (L. 1758) (Coléop. Buprestidae) d'Europe centrale. *Entomologiste* 6:96-99. July/Oct. 1950. 421 En814

30554 DOSSE. Starkes schadaufreten von *Ceutorhynchus pictus* raris an rapen und rüben in Württemberg. (Abs.) Angew. Chem. 62:176. Apr. 6, 1950. 384 Z33

30555 ELTON, E. T. G. *Dendroctonus micans* Kugel., a pest of Sitka spruce in the Netherlands. Internatl. Cong. Ent. Proc. 8:759-764. Ref. 1950. 422 C76

30556 EL ZOHEIRY, M. S. The wasp beetle, (*Chlorophorus varius* Mull., (Coleoptera—Cerambycidae), a new pest of grape vines in Egypt. Internatl. Cong. Ent. Proc. 8:727-731. 1950. 422 C76

30557 EMDEN, F. I. VAN. Eggs, egg-laying habits and larvae of short-nosed weevils. Internatl. Cong. Ent. Proc. 8:365-372. 1950. 422 C76

*Curculionidae*.



- 30558 ERNOULD, L. Le traitement de la graine de betterave contre les larves de taupin. Inst. Belge pour l'Amélior. de la Betterave. P. 18:95-106. May/June 1950. 66.9 In7
- 30559 ESPAÑOL COLL, F. Contribución al estudio de los Crypticus paleárticos (Col. Tenebrionidae). Internat. Cong. Ent. Proc. 8:124-129. 1950. 422 C76
- 30560 EVERS, A. M. J. Die Sphingopalpus-arten von tropisch Afrika (Col. Malach.) (9. Beitrag zur Kenntnis der Malachidae). Rev. de Zool. et de Bot. Africaines 43:318-328. Oct. 28, 1950. 410 R326
- 30561 FABER, W. Was frisst der kartoffelkäfer [Leptinotarsa decemlineata]? Pflanzenarzt 3(12):4-5. Dec. 1, 1950. 464.9 P482
- 30562 FEYTAUD, J. Le doryphore à la conquête de l'Europe. Internat. Cong. Ent. Proc. 8:643-646. 1950. 422 C76
- 30563 FEYTAUD, J. Les ravages des Coléoptères dans la forêt de Gascogne. Internat. Cong. Ent. Proc. 8:765-766. 1950. 422 C76  
Chiefly Ips sexdentatus.
- 30564 FISHER, R. C., and HARRIS, E. C. A note on the status of the house longhorn beetle, *Hylotrupes bajulus* L., in Great Britain. Internat. Cong. Ent. Proc. 8:767-769. 1950. 422 C76
- 30565 FLEMING, W. E. Protection of turf from damage by Japanese beetle [*Popillia japonica*] grubs. U. S. D. A. L. 290, 8 p. 1950. 1 Ag84L
- 30566 FOCARILE, A. The Alessandro Focarile collection of Carabidae (Coleoptera). Psyche 57:116. Sept. 1950. 421 P95  
Designation of type specimens of *Trechus* spp. now in Museum of Comparative Zoology.
- 30567 FRANCKE-GROSMANN, H. Die gefährdung der Sitkafichte durch rotfäule (*Fomes annosus* Fr.) und riesenbaskäfer (*Dendroctonus micans* Kug.) in aufforstungsrevieren Schleswigs. Internat. Cong. Ent. Proc. 8:773-780. 1950. 422 C76
- 30568 FREUDE, H. Zur frage *Cylindronotus* (*Stenomax*) *lanipes* (L.), *aeneus* (Scop.), *incurvus* (Küst.), (Col. Tenebrionidae). Münch. Ent. Gesell. Mitt. 40:237-242. 1950. 420 M922
- 30569 FREY, G. Zwei neue *Onthophagus*-arten aus der Alten Welt. Münch. Ent. Gesell. Mitt. 40:300-303. 1950. 420 M922
- 30570 FROST, H., JR., and ABURTO, H. El picudo del algodón [*Anthonomus grandis*]. Tierra [México] 5: 618-619. Nov. 1950. 8 T445
- 30571 GARMAN, P. The plum curculio [*Conotrachelus nenuphar*]. Amer. Fruit Grower 71(2):26-27, 38. Feb. 1951. 80 G85
- 30572 GODAN, D. Die feststellung des rapserdfloh-larven-befalls bei raps- und rübsenpflanzen. Z. f. Pflanzenbau u. Pflanzenschutz 1:189-190. Oct. 1950. 464.8 P88  
*Psylliodes chrysocephala*.
- 30573 GRISON, P. Influence de la température sur l'activité du doryphore (*Leptinotarsa decemlineata* Say) au stade imaginal. Internat. Cong. Ent. Proc. 8:226-234. 1950. 422 C76
- 30574 GUÉNIN, H. A. Chromosomes et hétérochromosomes de Ténébrionidés. Genetica 25:157-182. Ref. 1950. 442.8 G282
- 30575 GUIGNOT, F. Description de deux nouveaux Dytiscides du Congo Belge. Rev. de Zool. et de Bot. Africaines 43:211-212. Oct. 28, 1950. 410 R326  
In *Guignotus* and *Cybister*.
- 30576 GUIGNOT, F. Vingt-huitième note sur les Hydrocanthares. Soc. Ent. de France. B. 54:42-47. Mar. 1949. 420 F84B  
New species and forms in *Potamonectes*, *Hydrovatus*, *Clypeodytes*, and *Cybister*.
- 30577 HAUSMAN, E. H. Beetles on the hearth. Stories in a log of wood. Horticulture 29:45, 70. Feb. 1951. 80 H787
- 30578 HESPELER, R. Erfahrungen bei der bekämpfung des hausbocks (*Hylotrupes bajulus*) in Nordwestdeutschland. Internat. Cong. Ent. Proc. 8:785-791. 1950. 422 C76
- 30579 HESSE, G., and MEIER, R. Über einen stoff, der bei der fütterung des kartoffelkäfers [*Leptinotarsa decemlineata*] eine rolle spielt. Lockstoffe bei insekten. I. Angew. Chem. 62:502-506. Nov. 7, 1950. 384 Z33
- 30580 HILGEMAN, R. H., and SHARPLES, G. C. Progress report: the effect of four insecticides upon the control of beetle [*Carpophilus*] infestation in soil and dropped dates. Date Growers Inst. Rpt. 27:12-13. 1950. 81 D26
- 30581 HORBER, E. Beitrag zur biologie und bekämpfung des speisebohnenkäfers *Acanthoscelides obtectus* Say. (Col. Bruchid.). Schweiz. Ent. Gesell. Mitt. 23:233-244. Ref. Aug. 10, 1950. 420 Sw6
- 30582 HORION, A. Diskontinuierliche ost-west-verbreitung mitteleuropäischer käfer. Internat. Cong. Ent. Proc. 8:408-417. 1950. 422 C76
- 30583 INAGAKI, K., and others. The seasonal fluctuation of the local distributions of *Epilachna sparsa* orientalis Dieke and *Epilachna niponica* Lewis. (In Japanese.) Kansai Ent. Soc. Trans. 15:59-62. May 1950. 420 K132  
English summary.
- 30584 JARRIGE, J. Les *Phlaeonomus* [i.e. *Phloeonomus*] de France. Entomologiste 6:93-95. July/Oct. 1950. 421 En814
- 30585 KELSEY, J. M. Timber preservation tests with *Anobium punctatum* de Geer. New Zeal. J. Sci. & Technol. B, Gen. Res. Sect. 30:311-318. May 1949. 514 N48B
- 30586 KENDRICK, J. Wireworm [*Limontus californicus*] protection included in Spreckels processed seed. Spreckels Sugar Beet B. 15:3. Jan./Feb. 1951. 66.8 Sp7
- 30587 KERN, F. Untersuchungen über den fettstoffwechsel bei der larve des *Curculio caryae* (Horn) (Coleopt. Curculionid.). Schweiz. Ent. Gesell. Mitt. 23: 129-134. Aug. 10, 1950. 420 Sw6
- 30588 KERN, F., and GÜNTART, E. Weitere untersuchungen über den flug des maikäfers (*Melolontha vulgaris* F.). Schweiz. Ent. Gesell. Mitt. 23:226-232. Aug. 10, 1950. 420 Sw6
- 30589 KONO, T., and UTIDA, S. Quantitative studies on the toxicity of poisonous gases. I. On the dosage-mortality curve. (In Japanese.) Botyu-Kagaku 15:123-133. Ref. Sept. 1950. 421 B65  
English summary.  
Study of effect of carbon disulfide on *Sitophilus oryza*.
- 30590 KORELL, A. Neubeschreibung einer form von *Carabus auronitens* Fabr. (Col. Carabidae). Münch. Ent. Gesell. Mitt. 40:304-305. 1950. 420 M922
- 30591 KUENEN, D. J. *Anthonomus pyri* Koll and its attack on pears in the Netherlands. Internat. Cong. Ent. Proc. 8:657-661. 1950. 422 C76
- 30592 KULZER, H. Revision der gattung *Spinarmyrmus* Pic. (Col. Amarygmni, Tenebr.). Münch. Ent. Gesell. Mitt. 40:306-314. 1950. 420 M922
- 30593 LA RIVERS, I. The staphylinoid and dascilloid aquatic Coleoptera of the Nevada area. Great Basin Nat. 10:66-70. Oct. 10, 1950. 410 G79
- 30594 LECLERCQ, J. Sur quelques facteurs qui conditionnent la variabilité de la taille chez *Tenebrio molitor* L. Internat. Cong. Ent. Proc. 8:236-239. Ref. 1950. 422 C76
- 30595 LEPESME, P. Les *Litopus* (Col. Cerambycidae). Internat. Cong. Ent. Proc. 8:147-151. 1950. 422 C76
- 30596 LOZOVÖI, D. I. Bark beetles in the coniferous forests of Georgian SSR. (In Russian.) Lesn. Khoz. 3(8): 86. Aug. 1950. 99.8 L5622
- 30597 LUDWIG, D. Chemical constituents of the blood of the Japanese beetle (*Popillia japonica* Newman) larva. (Abs.) Anat. Rec. 108:610. Nov. 1950. 447.8 An1
- 30598 LUPO, V. Biological study on *Anomala ausonia* var. *neapolitana* Reitt. (In Italian.) Lab. di Ent. Agr. B. 9:78-110. Ref. 1949. 420 P82B
- 30599 MAC GILLAVRY, D. A few stray coleopterological notes. (In Dutch.) Ent. Ber. 13:189. Dec. 1, 1950. 420 N38B  
On *Leptinotarsa decemlineata*, *Monohammus*, and *Balaninus*.
- 30600 MARSHALL, SIR G. A. K. New Curculionidae (Col.) from the Belgian Congo. Rev. de Zool. et de Bot. Africaines 43:260-266. Oct. 28, 1950. 410 R326  
New species in *Fleuropis*, *Niphades*, *Derelomus*, *Prosoestus*, and *Pycnosiphilia*.
- 30601 MARTÍNEZ, A. Nuevo subgenero [*Coprocanton*] y especies de *Glaphyrocanton* Martínez, 1948 (Col. Scarabeinae). Soc. Cient. Argentina An. 150:159-172. Oct. 1950. 516 So1  
English summary.
- 30602 MARTÍNEZ ANDREU, A. El picudo negro del plátano (*Cosmonolites sordidus* Gemar). Agrotecnia 4: 83-91. Sept./Dec. 1950. 8 Ag825
- 30603 MEEUSE, A. D. J. The Australian carpet beetle, *Anthrenocerus australis* (Hope) (Coleoptera, Dermestidae-*Anthrenini*) in the Netherlands. Ent. Ber. 13:161-162. Nov. 1, 1950. 420 N38B



- 30604 MOISEEV, A. E., MOISEEVA, V. N., and ELIZAROVA, N. A. In regard to the biology of the millet ground beetle *Pardileus calceatus* and measures for its control. (In Russian.) In Krasnokutskaja Gosudarstvennaja Selektionsnaja Stantsija. Sbornik nauchnykh rabot za 1944-1948 gg. p.309-314. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64-9 K86
- 30605 MONTE, O. In the world of insects. (In Portuguese.) Chacaras e Quintais 82:731-732. Dec.15,1950. 9.2 C34  
Cicindellidae.
- 30606 MOURAVIEFF, and MOURAVIEFF, MME. Propriétés insecticides de l'hexachlorocyclohexane et autres dérivés du même type; étude par la méthode poncérade de la rapidité de l'action insecticide de l'hexachlorocyclohexane, du D.D.T. et du 1068 sur les larves de doryphore. Internatl. Cong. Ent. Proc. 8:928-935. 1950. 422 C76
- 30607 NAGASAWA, S., and URUHA, C. On the lethal effect of the powder of "yamagata-bentonite" to the adult of the azuki bean weevil (*Callosobruchus chinensis* L.), with special reference to the relation between the lethal effect and the particle size. Studies on the lethal effect of so-called "inert" pulverized dusts to insects. III. (In Japanese.) Botyu-Kagaku 15:178-180. Sept.1950. 421 B65  
English summary.
- 30608 NAKANE, T., and NOMURA, S. New or little known Coleoptera from Japan and its adjacent regions. I. Mordellidae - Mordellinae. Kansai Ent. Soc. Trans. 15: 1-17. May 1950. 420 K132  
New species in *Glipa*, *Hoshihananomia*, and *Mordella*.
- 30609 NAKAZIMA, M., and OKUBO, T. The control of rice weevil (*Calandra oryzae* [i.e. *Sitophilus oryzae* L.] by benzene hexachloride. I. (In Japanese.) Botyu-Kagaku 15:175-178. Sept.1950. 421 B65  
English summary.
- 30610 NICHOLSON, A. J. Progress in the control of *Hypericum* [perforatum] by insects. Internatl. Cong. Ent. Proc. 8:96-99. 1950. 422 C76  
Biological control by *Chrysomela gemellata*, *C. hyperici*, and *Agrilus hyperici*.
- 30611 NYHOLM, T. Zur systematik der nord-europäischen donacien. Internatl. Cong. Ent. Proc. 8: 156-163. 1950. 422 C76  
*Donacia* spp.
- 30612 PAULIAN, R. Les Corylophidae d'Afrique (Coleoptera). Inst. Franç. d'Afrique Noire. Mém. 12, 126 p. 1950. 515 D14M  
New species in *Peltinus*, *Homogrypinus*, *Coryolophus*, *Orthoperus*, *Catoptyx*, *Lewisium*, *Aposericoderus* n.g., *Anisomeristes*, *Lepesmella* n.g., *Alloparmulus* n.g., *Sacipinos* n.g., *Aposacium* n.g., *Villiersium* n.g., *Arthrohips*, and *Sicardianus* n.g.; also new genera *Peltinodes*, and *Pseudoparmulus*; and several new subfamilies, subgenera, and tribes.
- 30613 PEETERS, F. J. The granary weevil [*Sitophilus granarius*]. (In Flemish.) Cult. en Handel 16:557-558. Sept.1950. 80 C892
- 30614 PETERSEN, B. A method for experimental studies on Batesian mimicry. Internatl. Cong. Ent. Proc. 8:457-459. 1950. 422 C76  
Tests with dyed meal-worms (*Tenebrio molitor*) and crows.
- 30615 PEYERIMHOFF, P. DE. Coléoptères nouveaux ou mal connus de Berbérie. XX. Les Apteranillus (Staphylinidae). Soc. Ent. de France. B. 54:33-37. Mar. 1949. 420 F84B
- 30616 PEYERIMHOFF, P. DE. Les Curculionidae Cossoninae (Col.) et l'influence maritime. Internatl. Cong. Ent. Proc. 8:460-474. 1950. 422 C76
- 30617 PEYERIMHOFF, P. DE. Notes sur quelques Staphylinidae (Col.) marocains. Soc. Ent. de France. B. 54:104-110. July 1949. 420 F84B
- 30618 PFEFFER, A. Les invasions des bostryches dans les forêts de la Tchécoslovaquie. Internatl. Cong. Ent. Proc. 8:799-801. 1950. 422 C76
- 30619 PIC, M. Coléoptères nouveaux du Congo de diverses familles. Rev. de Zool. et de Bot. Africaines 43:356-362. Oct.28,1950. 410 R326  
New species in *Trododerma*, *Sphingonpalpus*, *Metholcus*, *Ptilinus*, *Clada*, *Stagetus*, *Dorcatoma*, *Gonocemis*, *Entypodera*, *Rhipiphorus*, *Macrosiagon*, and *Entropelodes*.
- 30620 PIC, M. Sur quelques Hétéromères africains (Coleoptera). Inst. Franç. d'Afrique Noire. B. 12:927-929. Oct.1950. 515 D14  
Includes new species in *Macrosiagon* and *Sora*.
- 30621 RATH. Der birnenprachtkäfer. (*Agrilus sinuatus*). Gart.-Z. Illus. Flora 73:140. Dec.1950. 80 G1991
- 30622 REGNIER, R. Les recherches françaises sur le hanneton commun *Melolontha melolontha* L. Internatl. Cong. Ent. Proc. 8:672-678. 1950. 422 C76
- 30623 RENKONEN, O. Zur autökologie einiger *Stenus*-arten im lichte synökologischer beobachtungen. Internatl. Cong. Ent. Proc. 8:475-480. 1950. 422 C76
- 30624 REYMOND, A. Notes éthologiques et de capture sur quelques Buprestides sahariens. Entomologiste 6:104-109. July/Oct.1950. 421 En814
- 30625 RIAKHOVSKAIA, L. I., and PALII, V. F. Use of green baits with DDT and benzene hexachloride for the control of click beetles. (In Russian.) Sovet. Agron. 7(5): 104-107. May 1949. 20 So84
- 30626 RIOUX, J. A., VERDIER, P., and QUEZEL, P. *Sinoxylon sexdentatum* Oliv. nuisible aux câbles portés des P. T. T. Feuille des Nat. (n.s.)5:75-76. Sept./Oct. 1950. 410 F432
- 30627 RIVALIER, E. Démembrement du genre *Cicindela* Linné. (Travail préliminaire limité à la faune paléarctique). Rev. Franç. d'Ent. 17:217-244. 1950. 421 R323  
Includes new genera *Spiralia*, *Homodela*, *Apterodela*, *Platydelia*, *Tribonophora*, *Salpingophora*, and *Achemenia*; also new sub-genera *Cephalota* (*Taenidia*), *Cylindera* (*Eugrapha*), and *Myriochile* (*Monelica*).
- 30628 RIVALIER, E. A propos des taches des Cicindèles. Entomologiste 6:99-104. July/Oct.1950. 421 En814  
Elytral patterns of the *Cicindela*, *Lophyridia*, and *Lophyra* types.
- 30629 ROSELLA, E. Pour détruire les vers fils de fer sans donner de goût aux pommes de terre. Réveil Agr. 60(2594):2-3. Jan.1,1951. 14 R322
- 30630 ROSSEM, G. VAN. The infestation of young cabbage plants by *Ceutorhynchus rapae* Gyll. (Col. Curculionidae) at Dedemsvaart (Prov. Overijssel, Holland). Internatl. Cong. Ent. Proc. 8:679-686. Ref. 1950. 422 C76
- 30631 SCHEDL, K. E. 93. Beitrag zur morphologie und systematik der Scolytoidea. Rev. de Zool. et de Bot. Africaines 43:203-210. Oct.28,1950. 410 R326  
Includes new species in *Hapalogenus*, *Xylocleptes*, and *Xyleborus*.
- 30632 SCHMIDT, H. Parkettkäfer-schäden in lagern-dem und verarbeitetem holz. (Sum.) Angew. Chem. (Ausz. A) 62:540. Nov.21,1950. 384 Z33  
*Lyctus linearis*.
- 30633 SCHMIDT, H. Überseehölzer und Lyctuskäfer-gefahr. Holz-Zentbl. 76:1431. Oct.28,1950. 99.81 H742
- 30634 SCHREIER, O. Der kohlgallenrüssler [*Ceutorhynchus pleurostigma*]. Bundesanst. f. Pflanzenschutz. Flugbl. 63,2 p. 1950. 464.9 V672F
- 30635 SCHURR-MICHEL, E. Ein bostrychide, *Stephanopachys substriatus* Payk. als gerbrindenschädling. Z. f. Angew. Ent. 32:285-288. Nov.1950. 421 Z36  
Chiefly *Pinus sylvestris*.
- 30636 SCHWARTZ, E. Die prüfung chemischer bekämpfungsmittel gegen den kartoffelkäfer [*Leptinotarsa decemlineata*] im jahre 1949. Nachrbl. f. den Deut. Pflanzenschutzdienst (n.s.)4:214-217. Nov.1950. 464.9 N11
- 30637 SCHWEIGER, H. Der einfluss der eiszeit auf die verbreitung der ostpalinen Trechusarten. Internatl. Cong. Ent. Proc. 8:489-496. 1950. 422 C76
- 30638 SHENEFFELT, R. D. Control the white pine weevil [*Pissodes strobi*]. Wis. Conserv. B. 16:20-22. Jan.1951. 279.8 W752
- 30639 SIEGRIST, H. Die malkäferflugjahrsverschiebungen im raume Olten-Willisau von 1900-1949. Schweiz. Ent. Gesell. Mitt. 23:125-128. Aug.10,1950. 420 Sw6  
*Melolontha melolontha*.
- 30640 SITTIG, O. Nochmals: vom tannenpissodes [*Pissodes engelmanni*]. Allg. Forstz. 6:42-43. Jan.24, 1951. 99.8 AL52
- 30641 SMITH, S. G. Evolutionary changes in the sex chromosomes of Coleoptera. II. Flour beetles of the genus *Tribolium*. (Abs.) Genetics 35:693. Nov.1950. 442.8 G28
- 30642 STRANEO, S. L. On some African *Pterostichinae* in the Musée du Congo Belge, Tervuren (Coleoptera Carabidae). (In Italian.) Soc. Ent. de Belg. B. et Ann. 86: 127-140. June 30,1950. 420 B41  
Includes new forms in *Stereostoma* and *Abacetus*.
- 30643 SZEKESSY, V. Die Coleopteren-fauna der storchneester. Internatl. Cong. Ent. Proc. 8:497-507. Ref. 1950. 422 C76



- 30644 TANNER, V. M. Studies in the weevils of the western United States, No. VII. Description of a new genus [*Pseudoeucyllus*]. Great Basin Nat. 10:71-73. Oct. 10, 1950. 410 G79
- 30645 THEODORIDES, J. The parasitological, medical and veterinary importance of Coleoptera. Acta Trop. 7:48-60. Ref. 1950. 475 Ac8
- 30646 THEODORIDES, J. Présence de larves triongulins de *Meloe proscarabaeus* L. (Col. Meloidae) sur *Oxythyrea funesta* Poda (Col. Scarabaeidae). Feuille des Nat. (n.s.) 5:74. Sept./Oct. 1950. 410 F432
- 30647 THIEM. Erfahrungen bei der aufzucht von engeringlen. (Abs.) Angew. Chem. 62:176. Apr. 6, 1950. 384 Z33  
Melolontha.
- 30648 THOMSEN, M. Contributions to the biology of *Xyloterus domesticus* L. and *Hylecoetus dermestoides* L., two wood-boring Coleoptera. Internatl. Cong. Ent. Proc. 8:804-811. Ref. 1950. 422 C76
- 30649 TILDEN, J. W. The feeding of *Podabrus pruinosus* Leconte (Cantharidae). Coleopterists' B. 4:92. Dec. 1950. 421 C674  
Predator on aphids.
- 30650 TOKUNAGA, M., and KADOWAKI, S. Studies on the life history and bionomics of *Phyllotreta vittata* Fabricius. Feeding habits of imaginal insects. Kansai Ent. Soc. Trans. 15:63-72. (Cont.) May 1950. 420 K132
- 30651 UHMANN, E. Hispinae aus dem Britischen Museum. VI. 131. Beitrag zur kenntnis der Hispinae (Coleopt., Chrysom.). Ann. & Mag. Nat. Hist. (ser. 12) 4 (37):66-76. Jan. 1951. 410 An77  
Includes new species in *Demotispa*, *Cephaloleia*, *Botryonopa*, *Lasiochila*, and *Estigma*.
- 30652 VAPPULA, N. A. The plum borer (*Rhynchites cupreus* L.) as a pest in Finland. Internatl. Cong. Ent. Proc. 8:695-698. 1950. 422 C76  
Chiefly on apples.
- 30653 VAURIE, P. The blister beetles of north central Mexico (Coleoptera, Meloidae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1477, 68 p. Ref. Dec. 14, 1950. 500 N483N
- 30654 VELBINGER, H. H. Beitrag zur biologie und bekämpfung der "apfelfruchtstecher". (Rhynchites aequatus L. und Rhynchites bacchus L.) (Col. Curcul.). Internatl. Cong. Ent. Proc. 8:958-973. Ref. 1950. 422 C76
- 30655 VERDIER, P., QUÉZEL, P., and RIOUX, J. A. Activités entomologiques du Laboratoire d'Histoire Naturelle de la Faculté de Médecine (Montpellier). I. Entomologiste 6:132-137. July/Oct. 1950. 421 En814  
Coleoptera collected during 1948-49.
- 30656 VERDIER, P., and QUÉZEL, P. Coléoptères carabiques capturés dans la région de Cauterets. Entomologiste 6:141-142. July/Oct. 1950. 421 En814
- 30657 VIALE, E., and ROSADO E., H. Control of cornroot chrysomelids [*Diabrotica* spp.]. Turrialba 1: 91-92. Oct. 1950. 8 T86
- 30658 VILARDEBO, A. Conditions d'un bon rendement du piégeage de Cosmopolites sordides. Fruits d'Outre Mer 5:399-404. Dec. 1950. 80 F9492
- 30659 VOGT, G. B. Occurrence and records of Nitidulidae. Coleopterists' B. 4:81-91. (To be cont.) Dec. 1950. 421 C674
- 30660 WILDE, J. DE. Développement embryonnaire et postembryonnaire du doryphore (*Leptinotarsa decemlineata* Say) en fonction de la température. Internatl. Cong. Ent. Proc. 8:310-321. 1950. 422 C76
- 30661 WILLIS, E. R., and ROTH, L. M. Humidity reactions of *Tribolium castaneum* (Herbst). J. Expt. Zool. 115:561-587. Ref. Dec. 1950. 410 J825
- 30662 YOUNG, F. N. Notes on the habits and habitat of *Geotrupes chalybaeus* Leconte in Florida. Psyche 57: 88-92. Sept. 1950. 421 P95
- 30663 ZACHER, F. Oberflächenaktive pulver und kontaktinsektizide. Internatl. Cong. Ent. Proc. 8:838-841. 1950. 422 C76  
Tests with *Sitophilus granarius*.
- DIPTERA
- 30664 AGRELL, I. Hydrogen-activating enzymes during the insect metamorphosis. Internatl. Cong. Ent. Proc. 8:192-198. 1950. 422 C76  
Experiments with *Calliphora erythrocephala*.
- 30665 BARNES, H. F. The need for biological investigations in the specific determination of gall midges. Internatl. Cong. Ent. Proc. 8:106-110. 1950. 422 C76
- 30666 BEQUAERT, J. The northernmost extension of bird Hippoboscidae in the New World (Diptera). Psyche 57:113. Sept. 1950. 421 P95  
*Ornithomyia fringillina* from Alaska.
- 30667 BERTRAND, H. La nymphe de *Stygeropsis* [i.e. *Stygeropsis*] pubescens Loew (Dipt. Tipulidae). Entomologiste 6:119-123. July/Oct. 1950. 421 En814
- 30668 BRAUNS, A. Die braunfleckigkeit der laubhölzer. Norddett. Holzwirt. 4(51):6. Dec. 21, 1950. 99.82 N75  
Due to cambium mining flies (Agromyzidae).
- 30669 BRIONES M., H. Tumores y alimentación. I. Efectos de las variaciones en la dieta de levadura sobre tumores melánicos de la *Drosophila melanogaster*. Biológica 8/11:55-66. Ref. July 1948/Dec. 1949, pub. 1950. 442.8 B5222  
English summary.
- 30670 BRNCIĆ J., D. Un nuevo tumor hereditario de la *Drosophila melanogaster* tu<sup>49h</sup>. Biológica 8/11:69-83. Ref. July 1948/Dec. 1949, pub. 1950. 442.8 B5222  
English summary.
- 30671 BUCK, J. B., and KEISTER, M. L. Cuticular and spiracular respiration in *Phormia* larvae. (Abs.) Anat. Rec. 108:512-513. Nov. 1950. 447.8 An1
- 30672 BUCK, J. B., and KEISTER, M. L. Mechanism of gas transport through spiracles. (Abs.) Anat. Rec. 108:513. Nov. 1950. 447.8 An1  
*Phormia* larvae.
- 30673 BURDETTE, W. J. Comparison of mutation rate and tumor incidence in *Drosophila* treated with chemicals. (Abs.) Genetics 35:658-659. Nov. 1950. 442.8 G28
- 30674 BURTT, E. An illustration of the appearance presented by trypanosome colonies occurring on the proboscis and in the salivary glands of a tsetse-fly [*Glossina brevipalpis*]. Acta Trop. 7:61-62. 1950. 475 Ac8
- 30675 CLANCY, C. W., and CHAN, F. L. Comparative chromatographic analysis of the "red" eye pigment in the vermilion group of mutants of *D. melanogaster*. (Abs.) Genetics 35:660-661. Nov. 1950. 442.8 G28
- 30676 CLARK, F. C. Warble control campaign—1951 Butter-fat [Vancouver] 28(11):4. Feb. 1951. 44.8 B98  
Hypodermia.
- 30677 CLAUSEN, R. L. Observations sur la cécidomyie de la violette *Dasyneura affinis* Kleffer (Dipt. Cecidomyid.). Schweiz. Ent. Gesell. Mitt. 23:200-206. Aug. 10, 1950. 420 Sw6
- 30678 CROW, H. E., and SWANSON, H. Disappearance of ox warbles (*Hypoderma lineatum*) from a herd of cattle. Kans. Acad. Sci. Trans. 53:529-531. Dec. 1950. 500 K13T
- 30679 DAVIES, L. The hatching mechanism of muscid eggs (Diptera). J. Expt. Biol. 27:437-445. Dec. 1950. 442.8 B77  
Observations on *Lucilia* spp., *Protophormia terra-novae*, and *Calliphora* spp.
- 30680 DOVE, W. E. How time flies—it's fly-time! Pure Milk 24(4):6-7. April 1950. 280.28 P97  
Control.
- 30681 EL ZOHEIRY, M. S. *Leptoxyda* (*Dacus*) longistylus Wiedemann (Diptera: Trypanidae), a new pest of cucurbitaceous plants in Upper Egypt. Internatl. Cong. Ent. Proc. 8:721-726. 1950. 422 C76
- 30682 FAIN, A. Simulies d'élevage et de capture du Ruanda-Urundi. Rev. de Zool. et de Bot. Africaines 43: 228-239. Ref. Oct. 28, 1950. 410 R326
- 30683 FAIRBAIRN, H., and CULWICK, A. T. The transmission of the polymorphic trypanosomes. Acta Trop. 7:19-47. Ref. 1950. 475 Ac8  
*Trypanosoma gambiense* in *Glossina morsitans*.
- 30684 FOX, I., and KOHLER, C. E. Distribution and relative abundance of the species of biting midges or Culicoides in eastern Puerto Rico, as shown by light traps. P. R. J. Pub. Health & Trop. Med. 25:342-348. Ref. Mar. 1950. 448.8 P83  
Spanish text, p. 350-358.
- 30685 GIL COLLADO, J. Los estros de las ovejas [*Oestrus ovis*]. Ganadería [Madrid] 8:590-591. Sept. 1950. 49 G15
- 30686 GOETGHEBUER, M. Les Chironomides de la région du Bas-Escaut. Soc. Ent. de Belg. B. et Ann. 86: 141-163. June 30, 1950. 420 B41
- 30687 GOMES, J. G. Aerial spraying of oranges for control of fruit flies. (In Portuguese.) Seleç. Agr. 5(56): 17-19. Dec. 1950. 9.2 Se4  
*Anastrepha fraterculus*, etc.



- 30689 GOUIN, F. L'appareil buccal de *Tipula* sp. Internatl. Cong. Ent. Proc. 8:548-550. 1950. 442 C76
- 30689 GOUIN, F. Evolution de la région clypéocibariale chez les Diptères Brachycères. Internatl. Cong. Ent. Proc. 8:554-556. 1950. 442 C76
- 30690 GOUIN, F. La maxille et son évolution chez les Diptères Brachycères. Internatl. Cong. Ent. Proc. 8:551-553. 1950. 442 C76
- 30691 GOUIN, F. Structure morphologique de labium diptéroïde; son évolution. Internatl. Cong. Ent. Proc. 8:544-547. 1950. 422 C76
- 30692 HANNAH, A. Strapped, a digenic, sex-limited trait in *Drosophila melanogaster*. (Abs.) Genetics 35:669. Nov.1950. 442.8 G28
- 30693 HARNISCH, O. Die eigenart der oxybiotischen erholung nach anaerobiose bei Chironomidenlarven. Biol. Zentbl. 69:449-463. 1950. 442.8 B523
- 30694 HARNLY, M. H., and GOLDSMITH, E. D. Effects of thiourea, thiouracil, phenylthiourea, and propyl-thiourea on mortality, growth, and differentiation of *Drosophila melanogaster*. (Abs.) Anat. Rec. 108:564-565. Nov.1950. 447.8 An1
- 30695 HARNLY, M. H., and GOLDSMITH, E. D. Mortality and thiourea resistance, 44 generations of *Drosophila melanogaster*. (Abs.) Anat. Rec. 108:624. Nov.1950. 447.8 An1
- 30696 HARRISON, B. J., and MATHER, K. Polygenic variability in chromosomes of *Drosophila melanogaster* obtained from the wild. Heredity 4:295-312. Dec.1950. 443.8 H42
- 30697 HARTUNG, E. W. A cytological study of tumorous growths in a strain of *Drosophila melanogaster*. (Abs.) Anat. Rec. 108:530. Nov.1950. 447.8 An1
- 30698 HERSKOWITZ, I. H., and BURDETTE, W. J. Studies on a melanotic tumor in *Drosophila melanogaster*. (Abs.) Genetics 35:669-670. Nov.1950. 442.8 G28
- 30699 HINTON, T., and ELLIS, J. A nucleic acid requirement in *Drosophila* correlated with a position effect. (Abs.) Genetics 35:670-671. Nov.1950. 442.8 G28
- 30700 HORBER, E. Untersuchungen über die gelbe getreidehalmfliege *Chlorops (Oscinis) pumilionis* Bjerkander 1778 und ihr auftreten in verschiedenen höhenlagen der Schweiz. Landwirt. Jahrb. der Schweiz 9:887-1000. Ref. 1950. 17 L23
- 30701 HUNT, W. J. Fly sprays that last longer. Farm J. 75(2):40. Feb.1951. 6 F2212
- 30702 IVES, P. T. Mutator genes as a major cause of gene and chromosome changes in natural populations. (Abs.) Genetics 35:672. Nov.1950. 442.8 G28
- Drosophila melanogaster*.
- 30703 JANNONE, G. Studies and researches in agricultural entomology in Eritrea and in Ethiopia. VII. New or little known biological and morphological evidence on an important parasite of grasshoppers [*Schistocerca gregaria*, etc.]: *Stomatorrhina (Idia) lunata* Fab. (Diptera, Calliphoridae). (In Italian.) Lab. di Ent. Agr. B. 9:140-186. 1949. 420 P82B
- 30704 JAUJOU, C., CAMAIN, R., and ADAM, J. P. Apparition en Corse de mouches domestiques résistantes au DDT. Soc. de Path. Exot. B. 43:490-496. Ref. 1950. 448.9 So13
- 30705 KASSEL. Die dasselpage. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1663. Nov.30,1950. 18 L2346 Hypoderma.
- 30706 KATO, M. The ecological investigation concerning the environmental climatic condition of the rice leaf-miner, *Agromyza oryzella* Matsumura. Internatl. Cong. Ent. Proc. 8:654-656. 1950. 422 C76
- 30707 KEISER, F. Phänologische beobachtungen an alpinen Dipteren. Internatl. Cong. Ent. Proc. 8:418-422. 1950. 422 C76
- 30708 KJELLANDER, E. Northern cattle grub [*Hypoderma bovis*], an unpleasant parasite. (In Swedish.) Mjölkipropaganda 27:173. June/July 1950. 44.8 M692
- 30709 KUWAYAMA, S. The rice leaf-miner [*Agromyza oryzae*]: some observations on its ecology and experiments along the control measures. Internatl. Cong. Ent. Proc. 8:662-671. Ref. 1950. 422 C76
- 30710 LEFEVRE, G., JR. X-ray induced somatic crossing over in *Drosophila melanogaster*. (Abs.) Anat. Rec. 108:623-624. Nov.1950. 447.8 An1
- 30711 LESHNER, S. W. The nucleic acids of the larval salivary gland of *Drosophila robusta* and the possible role of the nucleolus. (Abs.) Anat. Rec. 108:534-535. Nov.1950. 447.8 An1
- 30712 LEVITAN, M. Retention of a pericentric inversion in populations of *Drosophila robusta*. (Abs.) Genetics 35:674. Nov.1950. 442.8 G28
- 30713 LOPES, H. DE S. On the genera *Boettcheria* Parker, 1914 and *Boettcherimima* n. gen. (Diptera Sarcophagidae). Inst. Oswaldo Cruz. Mem. 48:711-732. Ref., p.708-709. 1950. 448.9 In74
- Also in Portuguese, p. 687-708.
- 30714 MCDONOUGH, E. S., and ROWAN, M. A study of the effects of crystalline desoxyribonuclease on the salivary gland chromosomes of *Drosophila melanogaster*. (Abs.) Genetics 35:680. Nov.1950. 442.8 G28
- 30715 MCQUATE, J. T. Chromosome loss occasioned by ultraviolet treatment of *Drosophila* spermatozoa. (Abs.) Genetics 35:680-681. Nov.1950. 442.8 G28
- 30716 MARTIN, H. Note préliminaire sur le comportement de *Ceratitis capitata* Wied dans la région algéroise (Dipt. Trypetid.). Schweiz. Ent. Gesell. Mitt. 23:120-124. Aug.10,1950. 420 Sw6
- 30717 METZ, C. W., and REYNOLDS, J. P. Further data on "triple repeats" in *Sciera*. (Abs.) Anat. Rec. 108:530-531. Nov.1950. 447.8 An1
- 30718 MICKEY, G. H. Studies on intersexuality in *Drosophila [melanogaster]*. (Abs.) Genetics 35:681. Nov.1950. 442.8 G28
- 30719 MITTLER, S. The genetic structure of wild populations of *D. melanogaster*. (Abs.) Genetics 35:681. Nov.1950. 442.8 G28
- 30720 MOISEEV, A. E. The crested wheatgrass fly [*Dicraeus pallidiventris* Macq.]. (In Russian.) In Krasnokutskaja Gosudarstvennaja Selektionsnaja Stanfisa. Sbornik nauchnykh rabot za 1944-1948 gg, p.258-280. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 30721 MOISEEV, A. E. Crested wheatgrass gall midge. (In Russian.) In Krasnokutskaja Gosudarstvennaja Selektionsnaja Stanfisa. Sbornik nauchnykh rabot za 1944-1948 gg, p.281-299. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 30722 NEW SOUTH WALES DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. The seedling bean midge (*Chironomidae*). Agr. Gaz. N. S. Wales 61:525-526. Oct. 2, 1950. 23 N472
- 30723 NICHOLSON, A. J. Competition for food amongst *Lucilia cuprina* larvae. Internatl. Cong. Ent. Proc. 8:277-281. 1950. 422 C76
- 30724 OLIVEIRA, S. J. DE. On two new neotropical species of the genus *Telmatogaster* Schiner, 1866 (Diptera, Chironomidae). Inst. Oswaldo Cruz. Mem. 48:479-485. Ref., p.476-477. 1950. 448.9 In74
- Also in Portuguese, p. 469-475.
- 30725 PALMER, C. B. How to control fruit flies. Westralian Farmers' Co-op. Gaz. 19:332. Nov.1950. 280.28 W522
- Ceratitis capitata*.
- 30726 PERRET, J. E. Lutte contre la cératite; essais sur les propriétés physiques des pulvérisations-appâts toxiques. Terre Marocaine 24:497-499. Dec. 1950. 24 T44
- Control of *Ceratitis capitata*.
- 30727 PIMENTEL, D., SCHWARDT, H. H., and NORTON, L. B. New methods of house fly control in dairy barns. Soap & Sanit. Chem. 27:102-103, 105, 112A, 112C, 141. Jan.1951. 307.8 So12
- 30728 POISSON, R., and BARBOTIN, F. La mouche des fruits: *Ceratitis capitata* Wied dans l'Ouest de la France. Feuille des Nat. (n.s.) 5:79. Sept./Oct.1950. 410 F432
- 30729 POULSON, D. F. Physiological genetic studies on copper metabolism in the genus *Drosophila*. (Abs.) Genetics 35:684-685. Nov.1950. 442.8 G28
- 30730 SATCHELL, G. H. New species of Fijian Psychodidae (Diptera). Roy. Ent. Soc. London. Proc. Ser. B: Taxonomy 19:176-185. Dec.15,1950. 420 L84Pb
- New species in: *Telmatoscopus*, *Psychoda*, and *Brunettia*.
- 30731 SCHNEIDER, F. Die wirkung von schädigungs-bekämpfungsmitteln auf räuberische schwebfliegen (Dipt. Syrphidae). Internatl. Cong. Ent. Proc. 8:948-952. 1950. 422 C76
- 30732 SEMENZA, L. Interaction of genes affecting the wings of *D. melanogaster*. Nature [London] 167:73. Jan.13,1951. 472 N21
- 30733 SERGENT, E., and SERGENT, E. Le varron du boeuf [*Hypoderma bovis*]; notes de biologie, de thérapeutique et de prophylaxie. Soc. des Agr. d'Algérie. B. 94(552):26-29. 1950/1951. 24 So1
- 30734 SHUKLA, D. D. Inheritance of six new spontaneous mutations in *Drosophila brunetti*. Nagpur Agr. Col. Mag. 25:10-12. June/Sept.1950. 107.5 N132



- 30735 SPIETH, H. T., and HSU, T. C. The influence of light on the mating behavior of seven species of the *Drosophila melanogaster* species group. *Evolution* 4:316-325. Ref. Dec.1950. 443.8 Ev62
- 30736 TIMON-DAVID, J. Quelques stations de *Syrphides* nouvelles pour la faune française. *Soc. Ent. de France. B.* 54:38-39. Mar.1949. 420 F84B
- 30737 TISCHLER, W. Bionotische untersuchungen bei hausfliegen. *Z. f. Angew. Ent.* 32:195-207. Ref. Nov. 1950. 421 Z36
- Notes on food preferences, habits, etc., of 181 species of Diptera collected indoors.
- 30738 UGANDA. TSETSE CONTROL DEPT. Annual report for the year ended 31st December, 1948. Entebbe, 1950. 7 p. 428 Ugl
- 30739 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Composition and designation of the preparation EQ 335 screw-worm remedy. Washington, 1950. 3 p. 1.967 A2C73
- 30740 VAILLANT, F. Contribution à l'étude des *Stratiomyidae* du genre *Hermione* Meigen. *Rev. Franç. d'Ent.* 17:245-255. 1950. 421 R323
- 30741 WALLACE, B. Mutations induced by chronic radiation. (Abs.) *Genetics* 35:698. Nov.1950. 442.8 G28
- Drosophila melanogaster* treated with X-rays and gamma-rays.
- 30742 WANSON, M., and LEBIED, B. Un *Simulium* nouveau du Kwango, *Simulium renauxi* nova species. *Rev. de Zool. et de Bot. Africaines* 43:309-314. Oct.28, 1950. 410 R326
- 30743 WATERHOUSE, D. F. Connective tissue strands in blowfly [*Lucilia cuprina*] larvae. *Austral. J. Sci.* 13:25-26. Aug.1950. 475 Au72
- 30744 WHELLAN, J. A. Tsetse fly in S. Rhodesia, 1949. *Rhodesia Agr. J.* 47:416-427. Sept./Oct.1950. 24 R34
- Glossina* spp.
- 30745 WHITE, M. J. D. Cytological studies on gall midges (*Cecidomyiidae*). Austin, U., 1950. 80 p. Ref. 428 W582
- 30746 WHITTINGHILL, M. Evidences from complementary crossover classes as to the time of crossing over. (Abs.) *Genetics* 35:699-700. Nov.1950. 442.8 G28
- Drosophila melanogaster*.
- 30747 WIESMANN, R. Untersuchungen über die diapause der puppe der kirschniege *Rhagoletis cerasi* L. (Dipt. Trypetid.). Schweiz. Ent. Gesell. Mitt. 23:207-225. Ref. Aug.10, 1950. 420 Sw6
- 30748 WINTERINGHAM, F. P. W., LOVEDAY, P. M., and HARRISON, A. Resistance of houseflies to DDT. *Nature [London]* 167:106-107. Jan.20, 1951. 472 N21
- 30749 YUASA, H. Resistance in rice plant to rice stem maggot [*Chlorops oryzae*]. *Internatl. Cong. Ent. Proc.* 8:716-720. 1950. 422 C76
- 30750 ZUMPT, F. Further notes and descriptions of *Sarcophaga* species from the Ethiopian Region (Diptera: Calliphoridae). *Roy. Ent. Soc. London. Proc. Ser. B: Taxonomy* 19:162-173. Dec.15, 1950. 420 L84Pb
- Culicidae**
- 30751 BACKHOUSE, T. C., and HEYDON, G. A. M. Filariasis in Melanesia: observations at Rabaul relating to incidence and vectors. *Roy. Soc. Trop. Med. & Hyg. Trans.* 44:291-306. Ref. Dec.1950. 448.9 R813
- Experiments with mosquitoes show *Aedes kochi*, *Anopheles punctulatus* spp., and *A. annulipes* possible vectors of *Wuchereria bancrofti*.
- 30752 BELKIN, J. N. A revised nomenclature for the chaetotaxy of the mosquito larva (Diptera: Culicidae). *Amer. Midland Nat.* 44:678-698. Ref. Nov.1950. 410 M58
- 30753 BRENNAN, J. M. The occurrence of *Anopheles crucians* in Guatemala. *Amer. J. Trop. Med.* 31:138. Jan. 1951. 448.8 Am33
- 30754 CANNIBAL mosquito; giant breed is harmless to humans but preys on its own stinging kin. *Life* 30(5): 78. Jan.29, 1951. 280.8 L62
- Megarhinus* (= *Toxorhynchites*) *brevipalpis* used for control of other mosquito larvae in Hawaii.
- 30755 DANIELS, W. B. Albert Freeman Africanus King (1841-1914); his theory as to the transmission of malaria by mosquitoes. *Med. Ann. D. C.* 19:499-505, 542. Ref. Sept.1950. 448.8 M4694
- Includes discussion.
- 30756 DOWLING, M. A. C. Malaria eradication scheme, Mauritius. *Nature [London]* 167:67-68. Jan.13, 1951. 472 N21
- 30757 EICHLER, W. Indikationsstellung und terminfestsetzung zur flugzeugstäubung in der malariebekämpfung. *Internatl. Cong. Ent. Proc.* 8:850-855. 1950. 422 C76
- Mosquito control.
- 30758 EICHLER, W. Salzwasserverträglichkeit und sommerphase des *Anopheles atroparvus*. *Internatl. Cong. Ent. Proc.* 8:856-859. 1950. 422 C76
- 30759 FEDERATION OF MALAYA. MALARIA ADVISORY BOARD. Annual report for the year 1949 by R. B. MacGregor. Kuala Lumpur, 1950. 7 p. 448.9 M292A
- Includes mosquito control.
- 30760 GALINDO, P., CARPENTER, S. J., and TRAPIDO, H. Ecological observations on forest mosquitoes of an endemic yellow fever area in Panama. *Amer. J. Trop. Med.* 31:98-137. Ref. Jan.1951. 448.8 Am33
- 30761 GHELELOVITCH, S. Etude génétique de deux caractères de pigmentation chez *Culex autogenicus* Roubaud. *B. Biol. de la France et de la Belg.* 84:217-224. Ref. Third Q.1950. 473 B87
- 30762 HOOGSTRAAL, H., HUFF, C. G., and LAWLESS, D. K. A malarial parasite [*Plasmodium brodeni*] of the African elephant shrew, *Elephantulus rufescens* dundasi Dollman. *Natl. Malaria Soc. J.* 9:293-306. Ref. Dec. 1950. 448.9 N213
- Attempts to incriminate mosquitoes and ticks as vectors unsuccessful.
- 30763 HUFF, C. G., and others. Experimental infections with *Plasmodium fallax* Schwetz isolated from the Uganda tufted guinea fowl *Numida meleagris* major Hartlaub. *Natl. Malaria Soc. J.* 9:307-319. Dec.1950. 448.9 N213
- D. F. Marchbank, A. H. Saroff, P. W. Scrimshaw, and T. Shirosishi, joint authors.
- Infections in chickens and pigeons by means of *Aedes albopictus* and other mosquitoes.
- 30764 JEFFERY, G. M., EYLES, D. E., and YOUNG, M. D. The comparative susceptibility of *Anopheles quadrimaculatus* and two strains of *Anopheles albimanus* to a Panama strain of *Plasmodium falciparum*. *Natl. Malaria Soc. J.* 9:349-355. Dec.1950. 448.9 N213
- 30765 KENT, G. First total victory over malaria; a small army of 200 or 300 men armed with flit guns and DDT have changed Cyprus from a malarial pest-hole to a healthful, attractive island. *Today's Health* 29(2):14-15, 65-66. Feb.1951. 449.8 H993
- Mosquitoes eradicated in campaign directed by Mehmed Aziz.
- 30766 KUME, S. Experimental studies on the percutaneous invasion of the larvae of *Dirofilaria immitis* finished their development and growth in the body of mosquitoes. (In Japanese.) Tokyo. U. Agr. & Textile Indus. Facul. Agr. B. 1:11-20. Ref. July 1950. 107.6 T578
- English summary.
- 30767 KUPKA, E., and ANSCHAU, M. Entomologisch-ökologische untersuchungen an steirischen malarieherden. *Acta Trop.* 7:398-314. Ref. 1950. 475 Ac8
- English summary.
- Species of *Anopheles*, *Culex*, *Theobaldia* (= *Culiseta*), and *Aedes*.
- 30768 LELEUP, N., and LIPS, M. Un anophèle cavernicole nouveau du Katanga: *Anopheles rodhaini* n. sp. *Rev. de Zool. et de Bot. Africaines* 43:303-308. Oct.28, 1950. 410 R326
- 30769 LELEUP, N. Considérations sur l'éthologie et la dispersion actuelle des *Anophèles* cavernicoles du Congo Belge. *Rev. de Zool. et de Bot. Africaines* 43:353-355. Oct.28, 1950. 410 R326
- 30770 LEVI CASTILLO, R. El uso del alcohol polivinílico de viscosidad media como un medio para el montaje de las larvas, pupas y terminalia masculina de los mosquitos. *Rev. Kuba de Med. Trop. y Parasitol.* 6: 76-78. May/June 1950. 448.8 R3282
- 30771 MCCLESKEY, O. L. The bionomics of the Culicidae of the Dallas area. *Field & Lab.* 19:5-14. Ref. Jan.1951. 470 F46



30772 MALDONADO, J. F., and others. The role of hetrazan in the control of filariasis bancrofti. P. R. J. Pub. Health & Trop. Med. 25:291-299. Mar.1950. 448.8 P83

F. Hernández Morales, F. Vélez Herrera, and C. J. Thillet, joint authors.

Effect of treatment on parasite counts in humans and in mosquito vectors.

Spanish text, p. 300-309.

30773 MANN F., G. Dos nuevas sub-especies del *Anopheles pseudopunctipennis* Th. 1901. Biológica 8/11: 33-42. July 1948/Dec.1949, pub.1950. 442.8 B5222

English summary.

30774 MARTÍNEZ, A. Algunas capturas de mosquitos en la localidad y alrededores de pocitos en la Provincia de Salta (Dip. Culicidae). Buenos Aires. U. Misión de Estud. de Patol. Region. Argentina 21(77):55-63. 1950. 448.9 B862

30775 MENON, M. A. U. Preparing dry mounts of mosquito larvae and larval skins without using absolute alcohol. Stain Technol. 26:33-34. Jan.1951. 442.8 St1

30776 NAIR, C. P. DDT as a residual insecticide against *A. letifer* and *A. maculatus* in Malaya. Nature [London] 167:74-75. Ref. Jan.13,1951. 472 N21

30777 NIELSEN, E. T. Swarming habits of mosquitoes. Internatl. Cong. Ent. Proc. 8:447-449. 1950. 422 C76

30778 REID, J. A., and HODGKIN, E. P. The *Anopheles umbrosus* group (Diptera: Culicidae). I-II. Roy. Ent. Soc. London. Trans. 101:281-334. Ref. Dec.15,1950. 420 L84

I, Systematics, with descriptions of two new species, by J. A. Reid, p.281-318; II, Biology and transmission of malaria, by E. P. Hodgkin, p.319-331.

30779 SASA, M., KANO, R., and HAYASHI, S. A new species of mosquito, *Aedes koreicoides* n. sp., from Hokkaido. Jap. J. Expt. Med. 20:627-629. July 30,1950. 448.8 J272

30780 SASA, M. Redescription of *Aedes nobukonis* Yamada, 1932, with designation of its subgenus. Jap. J. Expt. Med. 20:409-411. Dec.30,1949. 448.8 J272

30781 SASA, M., KANO, R., and TAKAHASHI, H. A revision of the adult Japanese mosquitoes of the genus *Aedes*, subgenus *Aedes*, with description of two new species [*A. yamadai*, *A. asanumai*]. Jap. J. Expt. Med. 20:631-640. July 30,1950. 448.8 J272

30782 SASA, M., and others. Two years' observation on the seasonal activities and zoophilism of mosquitoes in Tokyo, by animal trap method. Jap. J. Expt. Med. 20: 509-517. Mar.30,1950. 448.8 J272

R. Kano, S. Hayashi, M. Kimura, A. Miura, K. Oyama, K. Sato, H. Hosoya, and K. Hasegawa, joint authors.

30783 SCHENK, P. J. Mosquitos; troublesome and sometimes dangerous pests. (In Flemish.) Cult. en Handel 16:553-554. Sept.1950. 80 C892

30784 SCHILDMACHER, H. Über photosensibilisierung von stechmückenlarven durch fluoreszierende farbstoffe. Biol. Zentbl. 69:468-477. 1950. 442.8 B523

30785 SCHUBERT, J. H., and KELLEY, M. H. The precipitin technique for determining species of host blood in mosquitoes—modifications and improvements. Natl. Malaria Soc. J. 9:341-348. Dec.1950. 448.9 N213

30786 TEESDALE, C. An apparent invasion of *Aedes* (*Banksinella*) *lineatopennis* and *Aedes* (*B.*) *albicosta* into Mombasa Island. Roy. Ent. Soc. London. Proc. Ser. A: Gen. Ent. 25:99-102. Dec.15,1950. 420 L84Pa

30787 THOMPSON, G. A., JR. A method for rapid identification of mosquitoes from light trap collections. CDC Bulletin 10:18-19. Jan.1951. 151.65 C12

30788 TOLEDO AREA SANITARY DISTRICT. Third annual report. Toledo,1950. 31 p. 449.9 T572

Includes mosquito control.

30789 VERMEIL, C., and DOBY, J. M. Présence d'*Anopheles d'thali* Patton dans le Sud Tunisien. Soc. de Path. Exot. B. 43:443-444. 1950. 448.9 So13

#### HEMIPTERA (HETEROPTERA AND HOMOPTERA)

30790 ALBINI, M. D. Winter spraying of fruit trees for San José scale [*Aspidiotus perniciosus*]. (In Italian.) Agenzia Romana Note e Inform. Agr. 86:8. Dec.16,1950. 281.8 Ag3

30791 ARMITAGE, H. M. State Department of Agriculture acts in leafhopper [*Circulifer tenellus*] emergency. Spreckels Sugar Beet B. 15:4-5. Jan./Feb.1951. 66.8 Sp7

California.

30792 AUCLAIR, J. L., and MALTAIS, J. B. Étude de la résistance des plantes aux aphidiens par la méthode de chromatographie. Rev. Canad. de Biol. 9:332-335. Nov.1950. 442.8 R325

English summary.

30793 AVIDOV, Z., and SVIRSKY, A. Control of the mealy bug on vines by means of organic phosphorus preparations. (In Hebrew.) Hassadeh 30:716-718. Sept. 1950. 26 H27

Pseudococcus.

30794 BAAS, J. Wie steht es um die San-José-schildlaus [*Aspidiotus perniciosus*] in Hessen? Gartenjahr 5: 22-23. Feb.1950. 80 G1932

30795 BACHMANN, F., and GEIER, P. Einige für die Schweiz neue oder wenig bekannte Cocciden aus der unterfamilie der Diaspidinae (Homopt. Diaspidoid.). Schweiz. Ent. Gesell. Mitt. 23:117-119. Aug.10,1950. 420 Sw6

30796 BALACHOWSKY, A. Les Kermes (Hom. Coccoidea) des chênes en Europe et dans le Bassin Méditerranéen. Internatl. Cong. Ent. Proc. 8:739-754. Ref. 1950. 422 C76

30797 BALACHOWSKY, A. Remarques biogéographiques sur l'aire de répartition mondiale du G. Kermes (Hom. Coccoidea). Internatl. Cong. Ent. Proc. 8:342-346. 1950. 422 C76

30798 BERRY, N. O. Progress report on the citrus blackfly [*Aleurocanthus woglumi*] surveys in Mexico. Rio Grande Val. Hort. Inst. Proc. 5:81-82. 1951. 81 L95

30799 BETREM, J. G. The control of the mosquito blight on the cacao on Java. Internatl. Cong. Ent. Proc. 8:593-596. Ref. 1950. 422 C76

*Helopeltis antonii* and *H. theivora*.

30800 BONNEMAISON, L. Remarques sur les facteurs d'apparition des ailes chez les Aphididae. Internatl. Cong. Ent. Proc. 8:199-203. Ref. 1950. 422 C76

30801 BOOCK, O. J., and CARBON, A. G. Control of *Pseudococcus maritimus* on seed potato tubercles with parathion. (In Portuguese.) Rev. de Agr. [Piracicaba] 25:397-404. Nov./Dec.1950. 9.2 R324

30802 BROADBENT, L. Factors affecting aphid flight. Internatl. Cong. Ent. Proc. 8:619-621. 1950. 422 C76

30803 CANDURA, G. S. The best and cheapest method of controlling San José scale [*Aspidiotus perniciosus*] in Italy. (In Italian.) Romagna Agr. e Zootec. 35(4):1,3-5. Mar.1950. 16 R66

Also in Agr. Bresciana 111(52):2,4. Dec.27,1950.

16 Ag89

30804 CARAYON, J. Caractères distinctifs, répartitions géographiques et habitats des espèces paléarctiques du genre *Alloeorhynchus* Fieb. (Hem. Nabidae). Soc. Ent. de France. B. 54:136-142. Nov.1949. 420 F84B

30805 CARAYON, J. Les fossettes tégmentaires abdominales des Nabidae (Hemipt. Heter.). Internatl. Cong. Ent. Proc. 8:207-213. 1950. 422 C76

30806 CARAYON, J. Une localité des environs d'Albi (Tarn) riche en hémiptères rares ou peu communs. Feuille des Nat. (n.s.):561-65. Sept./Oct.1950. 410 F432

30807 CHINA, W. E., USINGER, R. L., and VILLIERS, A. On the identity of *Heterocleptes* Villiers 1948 and *Hydrobatodes* China and Usinger 1949 (Hemiptera-Heteroptera; familles Reduviidae and Hydrometridae). Rev. de Zool. et de Bot. Africaines 43:336-344. Oct.28, 1950. 410 R326

30808 COOPER, J. F. Citrus blackfly [*Aleurocanthus woglumi*] in Mexico worries Florida. Fla. Grower 59(2):11,36. Feb.1951. 80 F6622

30809 COSTANTINO, G. List of scale insects observed in Sicily (Hemiptera - Homoptera, fam. Coccidae). (In Italian.) B. di Zool. 17:1-24. Ref. Jan./June 1950. 410 B63

30810 DAHMS, R. G., and FENTON, F. A. Recognition and control of greenbugs [*Toxoptera graminum*] and other early-appearing pests of wheat. Okla. Agr. Expt. Sta. Mimeog. C. M-209,3 p. Jan.1951. 100 Ok4M

30811 DAS GUPTA, J. Melosia in three genera of Indian Heteroptera. Cur. Sci. 19:323-324. Oct.1950. 475 Sci23

*Riptortus*, *Spherodema*, and *Chrysocoris*.



- 30812 DICKSON, R. C., FLOCK, R. A., and JOHNSON, M. M. An insect vector [*Aphis gossypii*] of the citrus quick decline disease. Calif. Citrog. 36:135,169-170. Feb.1951. 80 C125
- 30813 DINTHER, J. B. M. VAN. Morphologie en biologie van de schildluis *Chionaspis salicis* L. [Morphology and biology of the scale insect *Chionaspis salicis* L.]. Wageningen, 1950. 252 p. Ref. 431.6 D61 Thesis - Landbouwhogeschool, Wageningen.
- 30814 DISPONS, P. Révision des Oncocephalus de l'Afrique du Nord (Hem. Reduviidae). Rev. Franç. d'Ent. 17:256-262. 1950. 421 R323
- 30815 DRAKE, C. J., and HOTTES, F. C. Saldidae of the Americas (Hemiptera). Great Basin Nat. 10:51-61. Oct.10,1950. 410 G79 Includes new species in *Saldula*.
- 30816 DUPUIS, C. Allochromie liée aux modifications du métabolisme chez les Hémiptères des genres *Dolycoris* et *Carpocoris*. Paris. Acad. des Sci. Compt. Rend. 232:262-264. Jan.15,1951. 505 P21
- 30817 FISCHETTI, D. L. El pulgon verde de los cereales [*Toxoptera graminum*]. Chacra 21(242):10-11. Jan.1951. 9 C34
- 30818 GEIER, P., and BAGGIOLINI, M. Quelques observations sur la biologie de *Pericorya* [i.e. *Icerya*] purchasi Mask. au Tessin (Homopt. Margaroid.). Schweiz. Ent. Gesell. Mitt. 23:104-116. Aug.10,1950. 420 Sw6
- 30819 HESLOP-HARRISON, G. Subfamily separation in the homopterous Psyllidae. Ann. & Mag. Nat. Hist. (ser.12)4(37):1-35. Jan.1951. 410 An77
- 30820 HILLE RIS LAMBERS, D. An apparently unrecorded mode of reproduction in Aphididae. Internatl. Cong. Ent. Proc. 8:235. 1950. 422 C76 Eggs hatching immediately after being laid by spring migrants of *Eriosoma ulmi*, *Tetraneura gallarum*, *Colopha compressa*, and *Pemphigus protospirae*.
- 30821 HILLE RIS LAMBERS, D. Hostplants and aphid classification. Internatl. Cong. Ent. Proc. 8:141-144. 1950. 422 C76
- 30822 KATO, M. Nihon no semi [Japanese cicadas]. Tokyo, Nanjo Shoten, 1950. 105 p. 431 K152
- 30823 KENNEDY, J. S. Host-finding and host-alteration in aphides. Internatl. Cong. Ent. Proc. 8:423-426. 1950. 422 C76
- 30824 LIMA, A. DA C., and LEITE, I. DA C. On the species of Spiniger of the femoralis group. Inst. Oswaldo Cruz. Mem. 48:147-150. 1950. 448.9 In74 Also in Portuguese, p. 143-146.
- 30825 MALLO, R. G. Las chinches de los arrozales y forma de combatirlos. Charla Rur. 145:34-35. (To be cont.) Nov.1950. 9 C37 Solubea poecilia and other pentatomids in Argentina; also Leptocoris filiformis.
- 30826 MELIS, A. Measures for artificial control of San José scale (*Aspidiotus perniciosus* Comst.). (In Italian.) Agr. Tosc. 5:441-442. Dec.1950. 16 Ag827
- 30827 METCALF, Z. P. Phylogeny of the Homoptera Auchenorrhyncha. Internatl. Cong. Ent. Proc. 8:561-565. 1950. 422 C76
- 30828 MICHALK, O. Über die färbungswandlungen, generations- und fortpflanzungsverhältnisse der mitteleuropäischen Eurydema-arten (II. beitr.). Internatl. Cong. Ent. Proc. 8:240-254. Ref. 1950. 422 C76
- 30829 MOERICKE, V. Über das farbsehen der pfirsichblattlaus (Myzodes [i.e. Myzus] persicae Sulz.). Z. f. Tierpsychol. 7:265-274. Ref. July 1950. 410 Z35
- 30830 MOISEEV, A. E. Parasites and predators of alfalfa plant bug [*Adelphocoris lineolatus*]. (In Russian.) In Krasnokutskaja Gosudarstvennaja Seleksionnaja Stanitsa. Sbornik nauchnykh rabot za 1944-1948 gg. p.305-308. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 64.9 K86
- 30831 MOORE, G. A. Catalogue des Hémiptères de la Province de Québec. Nat. Canad. 77:233-271. Sept./Oct.1950. 410 N216
- 30832 NAJERA, L. E. Observaciones relativas al mecanismo de acción del "hexaclorobenceno" o "666" sobre los Triatomídeos. Rev. Kuba de Med. Trop. y Parasitol. 6:80-82. May/June 1950. 448.8 R3282 Tests with *Triatoma infestans*.
- 30833 NEWMAN, L. H. Bugs and beetles in the water. Nat. Lover 7:445-446, 449-450. Dec.1950. 410 N218 Notes on *Nepa cineris*, *Ranatra linearis*, *Dytiscus marginalis*, etc.
- 30834 NOE, J., and SILVA C., R. Una nueva variedad de *Triatoma infestans* (Klug, 1834). Biológica 8/11:5-10. July 1948/Dec.1949, pub.1950. 442.8 B5222 English summary.
- 30835 OMER-COOPER, J., and WHITEHEAD, G. B. Studies on the biological control of red scale [*Aonidiella aurantii*] in the eastern Cape Province. 6. Citrus Grower 202:3-4. Nov.1950. 80 C495
- 30836 PELLEGRINO, J. Experimental parasitism of the eggs of various species of *Triatoma* by the micro-hymenopteran *Telenomus fariai* Lima, 1927. (In Portuguese.) Inst. Oswaldo Cruz. Mem. 48:675-686. 1950. 448.9 In74 English summary.
- 30837 PELLEGRINO, J. New data on the distribution of triatomids and their infection by *Schizotrypanum* (i.e. *Trypanosoma*) cruzi in the State of Minas Geras (Brazil). (In Portuguese.) Inst. Oswaldo Cruz. Mem. 48:639-667. Ref. 1950. 448.9 In74 English summary.
- 30838 PELLEGRINO, J. Note on the parasitism of the eggs of *Triatoma infestans* and *Panstrongylus megistus* by the micro-hymenopteran *Telenomus fariai* Lima, 1927. (In Portuguese.) Inst. Oswaldo Cruz. Mem. 48:669-673. 1950. 448.9 In74
- 30839 PESSON, P. Sur un phénomène de phorésie des spermatozoïdes par des cellules oviductaires, chez *Aspidiotus ostreaeformis* Curt. (Hemiptera-Homoptera-Coccoidea). Internatl. Cong. Ent. Proc. 8:566-570. 1950. 422 C76
- 30840 PETTEY, F. W., and MARAIS, S. J. S. The cochineal (*Dactylopius opuntiae*), and the problem of its control in spineless cactus plantations. I-II. Union So. Africa. Dept. Agr. B. 296, 34 p. 1950. 24 So84P I, Its history, distribution, biology, and what it has accomplished in the control of prickly pear in South Africa, by F. W. Pettey, p.1-12; II, The control of cochineal in spineless cactus plantations, by F. W. Pettey and S. J. S. Marais, p.13-34. Biological control by *Exochomus flavipes*, *Cryptolaemus montrouzieri*, and *Empusa lecanii*.
- 30841 POISSON, R. Trois nouvelles espèces africaines d'Hydrocoris du Massif du Nimba (Haute Guinée) (note préliminaire). Soc. Ent. de France. B. 54:133-135. Nov.1949. 420 F84B New species in *Tenagionus*, *Anisops*, and *Sigara*.
- 30842 REMANE, R. *Rhopalotomus (Capsus) wagneri* nova spec. und *Rh. pilifer* nov. spec., zwei neue deutsche wanzentarten (Hem. Het. Miridae). Natwiss. Ver. f. Schleswig-Holstein. Schr. 24(2):66-71. 1950. 509 K54
- 30843 RUI, D. At Florence it is said-. (In Italian.) Terra e Sole 100:403-404. Dec.1950. 16 T273 Control of *Aspidiotus perniciosus* and *Carpocapsa pomonella*.
- 30844 SAKAI, S. On the life history of the soy bean aphid, *Aphis glycines*. (In Japanese.) Kansai Ent. Soc. Trans. 15:48-58. Ref. May 1950. 420 K132 English summary.
- 30845 SÉGUY, A. Les cigales. Entomologiste 6:117-119. July/Oct.1950. 421 En814
- 30846 SLATER, J. A. An investigation of the female genitalia as taxonomic characters in the Miridae (Hemiptera). Iowa State Col. J. Sci. 25:1-81. Ref. Oct.1950. 470 lo9
- 30847 SODHI, G. S., and BATRA, A. L. Use of power-driven sprayer in the control of mango hopper [*Idiocerus* sp.] in the Punjab. Indian Farming 11:158-161. Apr. 1950. 22 In283
- 30848 STEARNS, C. R., JR., and THOMPSON, W. L. The effect of incompatible parathion-wettable sulfur spray combinations on insecticide deposit and on scale mortality. Citrus Indus. 32(2):3-4, 16-17. Feb.1951, 80 C49
- 30849 STROYAN, H. L. G. The identity of *Aphis tanacetii* L. 1758. Internatl. Cong. Ent. Proc. 8:999-1001. 1950. 422 C76 Synonym of *Dactynotus tanaceticola* (Kalt. 1843); *Metopeurum fuscoviride* is a new name for *A. tanacetii* L. 1758 of various authors, not Linnaeus.
- 30850 SUTER, P. Zur biologie von *Lecanium corni* Bch. (Homopt. Coccid.). Schweiz. Ent. Gesell. Mitt. 23:95-102. Aug.10,1950. 420 Sw6
- 30851 TROPIN, I. V. Pest of the forest-pine needle scale insect [*Leucaspis signoreti*]. (In Russian.) Lesn. Khoz. 3(8):84-85. Aug.1950. 99.8 L5622



30852 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Potato leafhopper (*Empoasca fabae* (Harr.)). U. S. D. A. Picture Sheet 8, rev., 2 p. Nov. 1950. 1 En86P

30853 USINGER, R. L. The origin and distribution of apterous *Aradidae*. Internatl. Cong. Ent. Proc. 8:174-179. Ref. 1950. 422 C76

30854 VIALE, E., and ROSADO E., H. Chinche de la raíz del maíz (*Cyrtomenus* sp.). Turrialba 1:93-94. Oct. 1950. 8 T86

30855 VILLIERS, A. Hémiptères récoltés au Liberia par P.-L. Dekeyser et B. Holas. Inst. Franç. d'Afrique Noire. B. 12:930-939. Oct. 1950. 515 D14

30856 WENE, G. P. Use of cyanamid defoliant as a control for California red scale [*Aonidiella aurantii*]. Rio Grande Val. Hort. Inst. Proc. 5:84. 1951. 81 L95

30857 WOOD, S. F. Allergic sensitivity to the saliva of the western cone-nosed bug [*Triatoma protracta*]. South. Calif. Acad. Sci. B. 49:71-74. Ref. May/Aug. 1950. 500 So8

30858 WOOD, S. F. The distribution of California insect vectors harboring *Trypanosoma cruzi* Chagas. South. Calif. Acad. Sci. B. 49:98-100. Sept./Dec. 1950. 500 So8

*Triatoma protracta*.

## HYMENOPTERA

30859 AVIDOV, Z., and SVIRSKY, A. The appearance and control of the prune saw [fly] in 1950. (In Hebrew.) Hassadeh 31:97-99. (To be cont.) Nov./Dec. 1950. 26 H27

*Hoplocampa minuta* (?).

30860 BENOIT, P. L. G. Evénements éthiopiens du Muséum National d'Histoire Naturelle. Rev. Franç. d'Ent. 17:267-271. 1950. 421 R323

Includes new species in *Evania* and *Parevania*.

30861 BENOIT, P. L. G. Nouveaux Dryinidae du Congo Belge (Hym.). Rev. de Zool. et de Bot. Africaines 43:222-227. Oct. 28, 1950. 410 R326

New species in *Chelonus*, *Congodryinus* n.g., *Lestodryinus*, and *Noedryinus*.

30862 BENOIT, P. L. G. Un sapygide (Hym.) nouveau du Congo Belge. Rev. de Zool. et de Bot. Africaines 43:267-268. Oct. 28, 1950. 410 R326

In *Sapyga* (*Sapygella*) n. sgen.

30863 BENOIT, P. L. G. Stéphanides éthiopiens du Muséum National d'Histoire Naturelle, (Hym.-Terebr.). Rev. Franç. d'Ent. 17:263-267. 1950. 421 R323

Includes new species and forms in *Diastephanus*, *Foenatopus*, and *Neostephanus*.

30864 BENOIT, P. L. G. Les Trigonaloidae du Congo Belge (Hym.-Terebr.). Rev. de Zool. et de Bot. Africaines 43:216-221. Oct. 28, 1950. 410 R326

Includes new species in *Lycogastroides* and *Tapinogonolus*.

30865 BETREM, J. G. Analysis of some elements of the scoliid-fauna of the Malayan Region. Internatl. Cong. Ent. Proc. 8:347-350. 1950. 422 C76

30866 BIRD, F. T. The dissemination and propagation of a virus disease affecting the European pine sawfly, *Neodiprion sertifer* (Geoff.). Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bl-mon. Prog. Rpt. 6(5):2-3. Sept./Oct. 1950. 423.92 C16F

30867 BORGMEIER, T. Studies on *Atta* (Hym. Formicidae). (In Portuguese.) Inst. Oswaldo Cruz. Mem. 48: 239-263. Ref., p. 289-292. 1950. 448.9 In74

German text, p. 265-289.

30868 BRADLEY, J. C. The Ethiopian Scoliidæ. Internatl. Cong. Ent. Proc. 8:358-360. 1950. 422 C76

30869 BRUES, C. T. Vespid wasps (*Eumenes curvata*) attracted to smoke. Psyche 57:114-115. Sept. 1950. 421 P95

30870 CALLAN, E. Observations on tropical wasps in Trinidad. Internatl. Cong. Ent. Proc. 8:204-206. 1950. 422 C76

30871 CLARK, A. M., and MITCHELL, C. J. Gene dosage relations in *Habrobracon* [i.e. *Microbracon*]. (Abs.) Genetics 35:861. Nov. 1950. 442.8 G28

30872 COSTE, A. C. DELLE. La amenaza de las hormigas podadoras. Campo [Guadalajara] 18(11):6-7. Nov. 1950. 8 G76

*Atta* and *Acromyrmex*.

30873 CREIGHTON, W. S. *Polyhomoa Azuma*, a synonym of *Kydris Brown* (Hymenoptera: Formicidae). Psyche 57:93-94. Sept. 1950. 421 P95

30874 CRÉVECOEUR, A. Observations biologiques sur *Eurytoma dentata* Mayr., chalcidoïde nouveau pour la faune belge. Soc. Ent. de Belg. B. et Ann. 86:126. June 30, 1950. 420 B41

30875 DELEURANCE, E. P. Sur la nature et le déterminisme du couvain abortif chez les *Polistes* (Hyménoptères Vespides). Acad. des Sci. Compt. Rend. 231: 1565-1567. Dec. 18, 1950. 505 P21

30876 GHESQUIÈRE, J. Le genre *Anthemus* Howard nouveau pour la faune éthiopienne (Hym. Chalcidoidea Encyrtidae). Internatl. Cong. Ent. Proc. 8:130-136. 1950. 422 C76

30877 GONZÁLEZ MENDOZA, R. Clordano insecticida eficaz para el control de la hormiga arriera. Cent. Nac. de Invest. de Cafe. Bibliot. B. Inform. 12:24-27. Oct. 1950. 68.29 C332

Principally *Atta*.

30878 GROSH, D. S. The analogies between nuclear organization in ciliated protozoa and nuclear dimorphism in tissues of the parasitic wasp *Habrobracon* [i.e. *Microbracon*]. (Abs.) Genetics 35:668. Nov. 1950. 442.8 G28

30879 GUIGLIA, D. Notes on *Chalinus congoensis* Guiglia (Hymen. Phytophaga). (In Italian.) Rev. de Zool. et de Bot. Africaines 43:315-317. Oct. 28, 1950. 410 R326

30880 HARANT, H., and HUTTEL, W. Un insecte vulnérant peu connu. Soc. de Path. Exot. B. 43:449-450. 1950. 448.9 So13

*Scleroderma domestica*.

30881 HÖLDOBLER, K. Neue Beobachtungen über die Koloniengründung der Ameisen und Stellungnahme zum Eldmannschen Schema. Z. f. Angew. Ent. 32:279-284. Ref. Nov. 1950. 421 Z36

Neues zur Koloniengründung von *Formica gagates* und *ruffarbis*. Über das Eldmannsche Schema des zeitlichen Ablaufs der autonomen Koloniengründung.

30882 IWATA, K. Biology of ichneumon parasites on bag-worms in Japan. I. Kansai Ent. Soc. Trans. 15:35-47. May 1950. 420 K132

*Cryptus suzukii*, *Pimpla luctunosa*, and *Exeristes albicincta* parasitic on *Cryptothoea formosicola*, *C. minuscula*, and *Canephora asiatica*.

30883 JANY, E. Der "einbruch" von erdhummeln (*Bombus terrestris* L.) in die Blüten der Feuerbohne (*Phaseolus multiflorus* Willd.). Z. f. Angew. Ent. 32:172-183. Ref. Nov. 1950. 421 Z36

30884 KLEINE-BESTEN. Ergebnisse von vergleichsspritzungen gegen pflamensägewespe [*Hoplocampa minuta*]. Gartenjahr 5:170. Nov. 1950. 80 G1932

30885 KROMBEIN, K. V., and WILLINK, A. The North American species of *Bembecinus* (Hymenoptera, Sphecidae, Stizini). Amer. Midland Nat. 44:699-713. Nov. 1950. 410 M58

30886 KRUSEMAN, G. Is *Bombus agrorum* romanoides Krüg. a relict from Doggerland? Internatl. Cong. Ent. Proc. 8:427-428. 1950. 422 C76

30887 KUTTER, H. Über eine neue, extrem parasitische ameise. 1. Schweiz. Ent. Gesell. Mitt. 23:81-94. Aug. 10, 1950. 420 Sw6

*Teleutomyrmex schneideri* n.g., n.sp. in *Teleutomyrmex* n. subtribe.

30888 MARTIN, A., JR., and SEALE, J. K. A morphological study of seven abnormalities in *Habrobracon juglandis* [i.e. *Microbracon hebetor*] Ashmead. Pa. Acad. Sci. Proc. 24:48-59. 1950. 500 P383

30889 MARTIN, A., JR. The significance of the action of radioactive phosphorus on *Habrobracon juglandis* [i.e. *Microbracon hebetor*] Ashmead. Pa. Acad. Sci. Proc. 24:60-64. Ref. 1950. 500 P383

30890 MÖCZAR, L. Notes on the pompilids species in the Carpathian Basin (Hym.). Internatl. Cong. Ent. Proc. 8:438-446. Ref. 1950. 422 C76

30891 MORLEY, D. W. Artificially induced egg-laying in virgin ants. Internatl. Cong. Ent. Proc. 8:589-592. 1950. 422 C76

30892 MORLEY, D. W. The division of labour in the ants. Internatl. Cong. Ent. Proc. 8:523-529. 1950. 422 C76

30893 MORLEY, D. W. The investigation of the learning ability of ants. Internatl. Cong. Ent. Proc. 8: 329-333. 1950. 422 C76

30894 NICOLINI, J. C. La avispa costurera y la tuberculosis del olivo. IDIA; Inform. de Invest. Agr. 3(35/36):20. Nov./Dec. 1950. 9 Id3

Transmission of *Pseudomonas savastanoi* by *Oraesema aenea*.



- 30895 NIKOL'SKAIA, M. N. On representatives of the family Signiphoridae (Hymenoptera, Chalcidoidea) in the fauna of U.S.S.R. (In Russian.) Akad. Nauk SSSR. Dok. 75:319-321. Nov.11,1950. 511 P444A
- 30896 OHSAWA, W., and NAGASAWA, S. The statistico-physiological analysis of the vital resistibilities to water, kerosene, and pyrethrin of the workers of *Cremastogaster brunnea* matsumurai Forel. Internatl. Cong. Ent. Proc. 8:255-276. Ref. 1950. 422 C76
- 30897 O'ROURKE, F. J. Ants as beneficial insects. Internatl. Cong. Ent. Proc. 8:941-945. Ref. 1950. 422 C76
- 30899 PALM, N. B. Parasite [*Sphaerularia bombi*] action on *Bombus* queens. Internatl. Cong. Ent. Proc. 8:289-292. 1950. 422 C76
- 30899 PASTEELS, J. Sur des Tenthredinoidea africains du Muséum National d'Histoire Naturelle. Rev. Franç. d'Ent. 17:271-280. 1950. 421 R323  
Includes new species in *Anataxates*, *Xenapates*, *Neacidiophora*, and *Phanodules*.
- 30900 PAVAN, M. Iridomyrmecin, and antibiotic substance extracted from the Argentine ant (*Iridomyrmex pruinosus humilis* Mayr). Internatl. Cong. Ent. Proc. 8:863-865. 1950. 422 C76
- 30901 RIGGS, L. Cutting a bee tree; an informal account of how to successfully capture a swarm of wild bees. Farm & Ranch South. Agr. 80(10):13,43. Oct.1950. 6 T31
- 30902 ROBERTI, D. Hoplocampas of the plum. II. Hoplocampa rutilicornis Klug. (In Italian.) Lab. di Ent. Agr. B. 9:8-26. 1949. 420 P82B
- 30903 SAKHAROV, M. K., and RUSSKOV, E. I. Measures for the control of hornets, wasps and ants in apiaries. I-II. (In Russian.) Pchelovodstvo 7:430-431. Aug.1950. 424.8 P295  
I, by M. K. Sakharov; II, by E. I. Russkov.
- 30904 SCHNEIDER, F. Die entwicklung des Syrphidenparasiten *Diplazon fissorius* Grav. (Hym., Ichneum.) in uni-, oligo- und polyvoltinen wirten und sein verhalten bei parasitärer aktivierung der diapauselarven durch *Diplazon pectoratorius* Grav. Schweiz. Ent. Gesell. Mitt. 23:155-194. Ref. Aug.10,1850. 420 Sw6
- 30905 STÖCKLEIN, F. Über das vorkommen von *Chrysis* (*Hexachrysis*) *fasciata* v. *zetterstedti* Dahlb. namentlich in Deutschland. (Hym. Chrysid.). Münch. Ent. Gesell. Mitt. 40:315-318. Ref. 1950. 420 M922
- 30906 STOHL, G. Die variabilität der *Andrena*-arten des Karpatenbeckens (Hym., Apidae). Internatl. Cong. Ent. Proc. 8:165-173. Ref. 1950. 422 C76
- 30907 VECHT, J. VAN DER. Bees and wasps of the Malay Archipelago, and some notes on taxonomic entomology in general. Internatl. Cong. Ent. Proc. 8:180-184. Ref. 1950. 422 C76
- 30908 VOGEL, W. Untersuchungen über parasitische Hymenopteren der kirschenfliege. Schweiz. Ent. Gesell. Mitt. 23:195-199. Aug.10,1950. 420 Sw6  
Phygadeuon wiesmanni and Gelis bremeri on *Rhagoletis cerasi*.
- 30909 WHEELER, G. C. Ant larvae of the subfamily Cerapachyinae. Psyche 57:102-113. Sept.1950. 421 P95
- 30910 WHITING, P. W. Linkage in *Mormoniella*. (Abs.) Genetics 35:699. Nov.1950. 442.8 G28
- 30916 BEURET, H. A propos des *Plebejus argus* L. (Lép. Lycaenidae) de la région de Nîmes (Gard). Rev. Franç. de Lépidoptérologie 12:225-232. Mar./Apr.1950. 421 P192
- 30917 BLUNCK, H. Zur kenntnis des massenwechsels von *Pieris brassicae* L. mit besonderer berücksichtigung des dürrejahres 1947. Z. f. Angew. Ent. 32:141-171. Nov.1950. 421 Z36
- 30918 BOURGOGNE, J. Remarques sur le genre *Amicta* (sensu lato) et détermination de la position systématique d'*Amicta ecksteini* Led. (Lep. Psychidae). Soc. Ent. de France. B. 54:98-103. July 1949. 420 F84B
- 30919 BOVEY, P. Le carpocapse des pommes *Enarmonia* [i.e. *Carpocapsa*] *pomonella* (L.), ravageur important des abricots en Valais (Suisse). Internatl. Cong. Ent. Proc. 8:601-608. 1950. 422 C76
- 30920 BOX, H. E. The geographical and ecological distribution of some Neotropical species of *Diatraea* Guild. (Lep., Pyral.) and certain of their parasites. Internatl. Cong. Ent. Proc. 8:351-357. Ref. 1950. 422 C76
- 30921 BOX, H. E. Sugar cane moth borer [*Diatraea saccharalis*] control. Sugar 46:29-31. Jan.1951. 65.8 F11
- 30922 BRETHERTON, R. F. A fortnight's butterfly collecting in France. (Fontainebleau and Lac d'Annecy.). Ent. Rec. & J. Variation 62:101-106. Dec.1950. 421 En89
- 30923 BROWN, F. M. The American *Papilio*s. Lepidopterists' News 4:39-41. (To be cont.) 1950. 421 L554
- 30924 BROWN, F. M. Measurements and Lepidoptera. Lepidopterists' News 4:51-52. 1950. 421 L554
- 30925 BROWN, F. M. Some notes on *Danaus plexippus* in 1949. Lepidopterists' News 4:45-46. 1950. 421 L554
- 30926 BRYK, F. Über die plethopterygie bei den schmetterlingen. Internatl. Cong. Ent. Proc. 8:541-543. 1950. 422 C76
- 30927 BURMANN, K. Wo hat *Isturgia carbonaria* Cl. ihre nord- und ostgrenze der alpinen verbreitung? (Macrolepidoptera, Geometridae). Münch. Ent. Gesell. Mitt. 40:175-180. Ref. 1950. 420 M922
- 30928 CARTER, W. A. C. The 1950 season. Entomologist 83:276-277. Dec.1950. 421 En8  
Lepidoptera collecting in England.
- 30929 CHIAROMONTE, A. *Achaea catella* Guen. in Italian Somaliland. (In Italian.) Internatl. Cong. Ent. Proc. 8:626-631. Ref. 1950. 422 C76  
English summary.  
Pest of *Ricinus communis*.
- 30930 CLARKE, J. F. G. A new genus [*Corticivora*] and species of North American *Olethreutidae* (Lepidoptera: Laspeyresinae). Wash. Acad. Sci. J. 41:46. Jan. 1951. 500 W276J
- 30931 COUTURIER, A. La teigne de la betterave en France (Phthorimea [i.e. *Gnorimoschema*] *ocellatella* Boyd. Lépid. Gelechiidae). Internatl. Cong. Ent. Proc. 8:632-636. Ref. 1950. 422 C76
- 30932 DANIEL, F. Beobachtung über die lebensweise hochalpiner vertreter der gattung *Hepialus*. (Lep.-Hepialidae). Münch. Ent. Gesell. Mitt. 40:203-208. 1950. 420 M922
- 30933 DARLOW, H. M. Additions to the list of the Lepidoptera of Malta. Entomologist 83:269-271. Dec. 1950. 421 En8
- 30934 DAVIAULT, L. La chenille à tente d'automne [*Hyphantria cunea*]. Forêt et Conserv. 2:991-994. Dec. 1950. 99.8 F792
- 30935 DOETS, C. Notes on Lepidoptera, 1949. Ent. Ber. 13:163-167. Nov.1,1950. 420 N38B  
Includes several species new to the Dutch fauna.
- 30936 DRAUDT, M. Beiträge zur kenntnis der Agrotiden-fauna Chinas. Aus den ausbeuten Dr. H. Höne's (Beitrag zur fauna sinica.). Münch. Ent. Gesell. Mitt. 40:1-174. 1950. 420 M922  
Includes new species and forms in *Diphthera*, *Cranio-phora*, *Acronycta*, *Trisuloides*, *Bryophila*, *Chytobrya* n.g., *Oederemia*, *Trichestra*, *Discestra*, *Odontestra*, *Anarta*, *Lasiestra*, *Lasionycta*, *Polla*, *Harmodia*, *Hadula*, *Tiracola*, *Lasiridia* n.g., *Hyssia*, *Eriopyga*, *Morrisonia*, *Perigrapha*, *Physetica*, *Panolis*, *Cerapteryx*, *Cirphis*, *Leucania*, *Lophoterges*, *Callierges*, *Dasyerges* n.g., *Charierges* n.g., *Bombycia*, *Bombyciella* n.g., *Dichonia*, *Nycticia*, *Meganephria*, *Eumichtis*, *Valeria*, *Antitype*, *Sydiva*, *Athau-masta*, *Bryotype*, *Blepharidia*, *Trichoridia*, *Hypsophila*, *Trichosternum* n.g., *Eupsilia*, *Conistra*, *Cosmia*, *Amphi-*

## LEPIDOPTERA

- 30911 AGENJO, R. Posibilidad de determinar Lepidópteros en estado de pupa, mediante estudio de los aparatos genitales. Internatl. Cong. Ent. Proc. 8:530-534. 1950. 422 C76
- 30912 ASH, J. Records of Lepidoptera from an area in Berkshire in 1949. Ent. Rec. & J. Variation 62:93-96. (Concl.) Nov.1950. 421 En89
- 30913 BAJPAI, R. N. Wax moth *Galleria mellonella* L. and its control. Nagpur Agr. Col. Mag. 25:7-9. June/Sept.1950. 107.5 N132
- 30914 BALEVSKI, A. Nouvelles possibilités dans la lutte chimique contre la pyrale (*Sparganothis pillarifana*, Schiff.). (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis. 18:69-88. 1950. 106.3 R32  
French summary.
- 30915 BEEBE, W. Migration of Pieridae (butterflies) through Portachuelo Pass, Rancho Grande, north-central Venezuela. Zoologica 35:189-196. Nov.27,1950. 410 Z722



- pyra, *Gracilpalpus*, *Parastichtis*, *Trachea*, *Euplexia*, *Perigea*, *Oligia*, *Taenerema* n.g., *Agroperina*, *Lasiplexia*, *Trigonophora*, *Chutapha*, *Eriopus*, *Poecilogramma*, *Telesilla*, *Fagitana*, *Chytonix*, *Aucha*, *Rhabinogana* n.g., *Amphidrina*, *Hadjina*, *Miracopa* n.g., *Platysenta*, *Lophotyna*, *Prionoxanthia*, *Pyrria*, *Cytocanis*, *Ipiristis* n.g., *Calymnia*, *Enargia*, *Nonargia*, *Punctivena*, *Calamistis*, *Oria*, *Calliocloa* n.g., *Eublemma*, *Stenoloba*, *Phyllophila*, *Ozarba*, *Lithacodia*, *Melaleucantha*, *Chamyrissilla* n.g., *Eustrotia*, *Eutelia*, *Marathyssa*, *Risoba*, *Tyana*, *Hylophilodes*, *Hylophila*, *Gelastocera*, *Tympanistes*, *Westermannia*, *Negeta*, *Eccrita*, *Palaeosafia* n.g., *Plusidia*, *Phytometra*, *Raphia*, *Sypna*, *Polydesma*, *Toxocampa*, *Athyria*, *Baniana*, *Bocula*, *Calpe*, *Brevipecten*, *Zethes*, and *Thyrostipa*.
- 30937 DUNBAR, G. Grubs. *Bird World* 7:393. Sept. 1950. 413.8 B533
- Raising caterpillars as bird food.
- 30938 EL ZOHEIRY, M. S. Arsenical lime sulphur Z-ALS, an effective insecticide for the control of the cotton-leaf worm, *Prodenia litura* F., and other chewing insect pests and preventing build-up of the cotton aphid [*Aphis gossypii*]. *Internatl. Cong. Ent. Proc.* 8:979-981. 1950. 422 C76
- Mixture of calcium arsenate, hydrated lime and sulfur.
- 30939 EL ZOHEIRY, M. S. *Heliothis nubigera* H.-S. (Lepidoptera-Noctuidae), a new pest of water-melons in Egypt. *Internatl. Cong. Ent. Proc.* 8:732-736. 1950. 422 C76
- 30940 EL ZOHEIRY, M. S. Ratoon cotton as a trap crop for the pink bollworm, *Platyedra* [i.e. *Pectinophora*] *gossypiella* Saund. *Internatl. Cong. Ent. Proc.* 8:737-738. 1950. 422 C76
- 30941 FIELD, W. D., CLARKE, J. F. G., and FRANCLEMONT, J. G. On a recent proposal to correct an error committed by the International Commission on Zoological Nomenclature at the Paris 1948 meeting. *Science* 113:68-70. Jan. 19, 1951. 470 Sc12
- Proposal of Francis Hemming with regard to name for monarch butterfly, *Danaus plexippus*.
- 30942 FLEMING, H. The *Euchromiidae* (moths) of Kartabo, British Guiana, and Caripito, Venezuela. *Zoologica* 35:209-216. Nov. 27, 1950. 410 Z722
- Includes new species in *Autochloris*.
- 30943 FLETCHER, D. S. New African species of *Geometridae*. *Rev. de Zool. et de Bot. Africaines* 43:345-348. Oct. 28, 1950. 410 R326
- New species and forms in *Loxofidonia* and *Eupithecia*.
- 30944 FREEMAN, H. A. Distributional notes on *Papilio palamedes* Drury and its subspecies *leontia* R. & J. (Lepidoptera, Rhopalocera, Papilionidae). *Field & Lab.* 19:32. Jan. 1951. 470 F46
- 30945 FREEMAN, H. A. Distributional notes on the *Theclinae* of Arkansas. *Field & Lab.* 19:36-39. Jan. 1951. 470 F46
- 30946 FREEMAN, H. A. New skipper records for Mexico (Lepidoptera, Rhopalocera, Hesperidae). *Field & Lab.* 19:46-48. Jan. 1951. 470 F46
- 30947 FREEMAN, H. A. Notes on the Agave feeders of the genus *Megathymus* (Lepidoptera, Rhopalocera, Megathymidae). *Field & Lab.* 19:26-32. Jan. 1951. 470 F46
- 30948 FREEMAN, H. A. Notes on the genus *Yvretta* Hemming with a new record for the United States (Lepidoptera, Rhopalocera, Hesperidae). *Field & Lab.* 19:45-46. Jan. 1951. 470 F46
- 30949 FUKAYA, M. On the factor inducing the dormancy of the rice borer, *Chilo simplex* Butler. *Internatl. Cong. Ent. Proc.* 8:223-225. 1950. 442 C76
- Effects of temperature and light.
- 30950 GARTH, J. S. Butterflies of Grand Canyon National Park. *Grand Canyon Nat. Hist. Assoc. Nat. Hist. B.* 11:52 p. Sept. 1950. 410.9 G76
- 30951 GOFFART, H. Über das auftreten der rübenmotte [*Gnorimoschema ocellatella*] in Deutschland und im ausland. *Zucker* 3:506-507. Dec. 1, 1950. 65.8 Z82
- 30952 GRAHAM, M. W. R. DE V. Postural habits and colour-pattern evolution in Lepidoptera. *Soc. Brit. Ent. Trans.* 10:219-232. Nov. 30, 1950. 420 So15
- 30953 GRAVES, P. P. Repeated mating of Irish *Pieris napi*. *Entomologist* 83:274-275. Dec. 1950. 421 En8
- 30954 GRISON, P., and VIEL, G. Action physiologique de l'hexachlorocyclohexane sur les larves de certains Lépidoptères. *Internatl. Cong. Ent. Proc.* 8:910-911. 1950. 422 C76
- 30955 GRÖNVALL, J. S. Beiträge zur kenntnis der verbreitung und biologie von *Cossus terebra*. *Internatl. Cong. Ent. Proc.* 8:781-784. 1950. 422 C76
- 30956 GROSCHKE. *Boarmia bistortata* Goeze, der heidelbeerspanner, ein neuer grossschädling. (Abs.) *Angew. Chem.* 62:176. Apr. 8, 1950. 384 Z33
- 30957 HARRIS, L., JR. Notes and range extensions of butterflies in Georgia. *Lepidopterists' News* 4:43-44. 1950. 421 L554
- 30958 HAYES, M. L. Spraying spells success. *Amer. Fruit Grower* 71(2):16, 42-43. Feb. 1951. 80 G85
- For control of *Carpocapsa pomonella* on apples.
- 30959 HIGGINS, L. G. A descriptive catalogue of the palaearctic *Euphydryas* (Lepidoptera: Rhopalocera). *Roy. Ent. Soc. London. Trans.* 101:435-489. Dec. 30, 1950. 420 L84
- Appendix, a note on *Melitaea avionovi* Sheljuzhko, p. 483-487.
- 30960 HUGGINS, H. C. *Celastrina argiolus* in south-west Ireland. *Entomologist* 83:265-266. Dec. 1950. 421 En8
- 30961 INMAN, W. Corn borer [*Pyrausta nubilalis*] is tricky. *Wallaces' Farmer & Iowa Homestead* 76(2):10. Jan. 20, 1951. 6 W15
- 30962 ISHIHARA, T. Some notes on the eggs of three *Parnassius*-butterflies (Papilionidae). *Kansai Ent. Soc. Trans.* 15:23-26. May 1950. 420 K132
- 30963 IWASE, T. Some records of butterfly migration in Japan and Korea. *Lepidopterists' News* 4:43. 1950. 421 L554
- 30964 KAPUR, A. P. The identity of some *Crambinae* associated with sugar-cane in India and of certain species related to them (Lepidoptera: Pyralidae). *Roy. Ent. Soc. London. Trans.* 101:389-434. Ref. Dec. 30, 1950. 420 L84
- Includes new species in *Chilo*, *Chilotraea* n.g., *Proceras*, *Coniesta*, and *Girdharia* n.g.; also *Drasa* n.g. and *Bissetia* n.g.
- 30965 KING, H. Freyer's pug, *Eupithecia arceuthata*, in a London garden. *Entomologist* 83:267-268. Dec. 1950. 421 En8
- 30966 KOLUBAJIV, S. The importance of egg-parasites for the biological control of pine caterpillar *Dendrolimus pini* L. (In Czech.) *Lesn. Práce* 29:182-187. Sept. 1950. 99.8 L56
- English summary.
- 30967 KURENTSOV, A. I. *Eolimentis* (gen. n.) *eximia* (Molt.) Kurenz. (Nymphalidae, Lepidoptera) in the fauna of Ussuri Territory. (In Russian.) *Moskov. Obshch. Isp. Prirody. Otd. Biol. B. (n.s.)* 75(3):37-45. Ref. 1950. 511 M85
- 30968 LAMONT, N., and CALLAN, E. M. Moths new to Trinidad, B.W.I. *Zoologica* 35:197-207. Nov. 27, 1950. 410 Z722
- Includes new species in *Megatomis*.
- 30969 LANKTREE, P. A. D. Courtship of *Lysandra coridon* and *L. bellargus*. *Entomologist* 83:279. Dec. 1950. 421 En8
- 30970 LE MARCHAND, S. Une belle capture. *Rev. Franç. de Lépidoptérologie* 12:232-233. Mar./Apr. 1950. 421 P192
- Atremaea lonchoptera*.
- 30971 LE MARCHAND, S. Corrigenda au catalogue des Microlépidoptères de France et de Belgique. *Rev. Franç. de Lépidoptérologie* 12:233-235. Mar./Apr. 1950. 421 P192
- 30972 LEPIDOPTERISTS' SOCIETY. List of members, 1950. *New Haven, Lepidopterists' News*, 1950. 14 p. 420 L55
- 30973 LOOS, E. Lokales massenaufreten von *Zeuzera pyrina* (= *aesculi*) L. in den Donauauen. *Osterr. Forst- u. Holzwirt.* 5:237. Aug. 7, 1950. 99.81 Os7
- 30974 LORITZ, J. Sur la répartition géographique d'*Erebia epiphron atherius* Esper dans les Alpes-Maritimes. *Rev. Franç. de Lépidoptérologie* 12:246-250. Mar./Apr. 1950. 421 P192
- 30975 LOTMAR, R. Untersuchungen über die wirkung des mitlin auf die raupen der kleidermotte (*Tineola biselliella*). *Melliand Textilber.* 32:68-70. Jan. 1951. 304.8 T312
- English summary.
- 30976 LUCAS, D. Contribution à la faune des Lépidoptères de l'Afrique du Nord. *Soc. Ent. de France. B.* 54:143-144. Nov. 1949. 420 F84B
- New species and forms in *Stenia*, *Teleia*, *Anarsia*, and *Scythris*.



- 30977 MARCHANT, S. Notes on a migration of the butterfly *Libythea labdacca*. Nigerian Field 15:88-90. Apr.1950. 410 N58
- 30978 MARION, H. Contribution à l'étude des *Crambus palaeartiques*. II. *Crambus craterellus* Sc. et *cassentiniellus* Z. Rev. Franç. de Lépidoptérologie 12: 236-240. Mar./Apr.1950. 421 P192
- 30979 MATHUR, R. N. Biological notes on *Metanasatra hyrtaca* Cram. (Lepidoptera: Lasiocampidae). Indian Forester 76:539. Dec.1950. 99.8 In2
- 30980 MOECK, A. H. A simple spreading device. Lepidopterists' News 4:47. 1950. 421 L554  
For preparing butterfly specimens.
- 30981 MUNROE, E. The occurrence of a butterfly in the Pribilof Islands. Lepidopterists' News 4:44. 1950. 421 L554  
Specimen of *Pieris napi*.
- 30982 MUNROE, E. G. A previously unrecognized species of *Nymphula* (Lepidoptera: Pyralidae). Canad. Ent. 83:20-23. Jan.1951. 421 C16  
Differentiation between *N. badiusalis* and *N. curviferalis*.
- 30983 NEWMAN, L. H. Autumn *Colias crocea*. Entomologist 83:277-278. Dec.1950. 421 En8
- 30984 NIELSEN, E. T., and NIELSEN, A. T. Contributions towards the knowledge of the migration of butterflies. Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1471, 29 p. Oct.27,1950. 500 N483N  
Observations on *Ascia monuste*.
- 30985 NOVOPOL'SKAIA, E. V. Rose leaf roller in Crimea. (In Russian.) Sad i Ogorod 1950(4):34-35. Apr. 1950. 87 Sa1  
Pest of fruit; of pear chiefly.
- 30986 OBRAZTSOV, N. Naneres über *Pseudeucosma tibetana* (Car.) (Lepidoptera, Tortricidae). Münch. Ent. Gesell. Mitt. 40:243-244. 1950. 420 M922
- 30987 OGATA, M. Studies on the male genitalia of Japanese Hesperidae (Lepidoptera). I. (In Japanese.) Kansai Ent. Soc. Trans. 15:27-34. May 1950. 420 K132
- 30988 OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. European corn borer [*Pyrausta nubilalis*] and southwestern corn borer [*Diatraea grandiosella*] in Oklahoma. Okla. Agr. Expt. Sta. Mimeog. C. M-207, 1 p. Jan. 1951. 100 Ok4M
- 30989 PARSONS, R. E. *Catocala fraxini* paired. Entomologist 83:279-280. Dec.1950. 421 En8
- 30990 PASSONNEAU, J. V., and WILLIAMS, C. M. The moulting-fluid of the cecropia silkworm [*Hyalophora cecropia*]. (Abs.) Anat. Rec. 108:558. Nov.1950. 447.8 An1
- 30991 PETER, K. Die variabilität von *Pieris bronyiae* O. innerhalb einer population (Lep.). Münch. Ent. Gesell. Mitt. 40:181-202. 1950. 420 M922
- 30992 PICARD, J. Nouvelles notes sur *Pyrgus* (*Pyrgus*) *malvae* Lin. Rev. Franç. de Lépidoptérologie 12: 241-245. Mar./Apr.1950. 421 P192
- 30993 RAUSCHER. Durchgasung von kleinsmühlen. (Abs.) Angew. Chem. 62:176. Apr.6,1960. 384 Z33  
Control of *Pyralis farinalis* (?).
- 30994 REMPEL, J. G. A study of the embryology of *Mamestra configurata* (Walker) (Lepidoptera, Phalaenidae). Canad. Ent. 83:1-19. Ref. Jan.1951. 421 C16
- 30995 RICHARDS, A. W. Lepidoptera in N. E. Hants, 1950. Entomologist 83:278-279. Dec.1950. 421 En8
- 30996 RINDGE, F. H. A revision of the geometrid genus *Sericosema* (Lepidoptera). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1468, 30 p. Oct.18,1950. 500 N483N
- 30997 RINDGE, F. H. A revision of the North American species of the genus *Syrphodia* (Lepidoptera, Geometridae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1469, 26 p. Oct.20,1950. 500 N483N
- 30998 ROUSSY, L. La grande mite de la cire [*Galleria mellonella*] et ses ennemis. Gaz. Apic. 51:247-248. Nov.1950. 424.8 G25
- 30999 RUSSWURM, A. D. A. Butterflies of 1950. No. 12. Nat. Lover 7:456,461. Dec.1950. 410 N218  
Collecting in England.
- 31000 RUSSWURM, A. D. A. Life histories of our butterflies; 11. Nat. Lover 7:407-408,413-414. Oct./Nov. 1950. 410 N218  
*Lycaena phlaeas*, *L. dispar*, *Aricia agestis*, *Cupido minimus*, *Maculinea arion*, and *Plebejus argus* in Great Britain.
- 31001 SANBORN, R. C., and WILLIAMS, C. M. Oxidative enzymes in relation to pupal diapause and adult development in the cecropia silkworm [*Hyalophora cecropia*]. (Abs.) Anat. Rec. 108:558. Nov.1950. 447.8 An1
- 31002 SARMA, P. S. Accumulation of cholesterol in inositol-deficient larvae of *Coryca cephalonica* St. Cur. Sci. 19:315-316. Oct.1950. 475 Sci23
- 31003 SCHNEIDERMAN, H. A., FEDER, N., and WILLIAMS, C. M. The respiration of the cecropia silkworm [*Hyalophora cecropia*] in the presence of high pressures of carbon monoxide. (Abs.) Anat. Rec. 108: 557. Nov.1950. 447.8 An1
- 31004 SCHONE, W. J., and SIBOLD, N. V. A virus disease of the red-banded leaf roller [*Argyrotaenia velutinana*]. Va. Fruit 39:21-22. Jan.1951. 81 V81B  
Granulosis.
- 31005 SMITH, G. A. Carrot worm into stylish swallowtail. Outdoors Illus. 2:163-164. Nov./Dec.1950. 410 C162  
Photographs showing metamorphosis of *Papilio ajax*.
- 31006 SOLAROLI, V. Control of *Carpocapsa pomonella*. (In Italian.) Agr. Ferrarese 54:102. Apr.30, 1950. 16 Ag87
- 31007 SURÁNYI, P. Ein neuer schädling in Europa (*Hyphantria cunea* Drury). Internat. Cong. Ent. Proc. 8: 687-692. 1950. 422 C76
- 31008 TELFER, W. H., and WILLIAMS, C. M. An immunological study of the larval-pupal transformation of the cecropia silkworm [*Hyalophora cecropia*]. (Abs.) Anat. Rec. 108:559. Nov.1950. 447.8 An1
- 31009 TOXOPEUS, L. J. The geological principles of species evolution in New Guinea. Internat. Cong. Ent. Proc. 8:508-522. Ref. 1950. 422 C76  
Lepidoptera.
- 31010 TURNER, H. J. Breeding from *Lysandra bellargus* aberrations. Entomologist 83:266. Dec.1950. 421 En8
- 31011 TURNER, H. J. The British Noctuae [i. e. Phalaenidae] and their varieties. IV. Ent. Rec. & J. Variation 62(11,sup.):85-88. Nov.1950. 421 En89
- 31012 UNDERHILL, G. W., and SIBOLD, N. V. Insecticide tests for red-banded leaf roller [*Argyrotaenia velutinana*]. Va. Fruit 39:19-21. Jan.1951. 81 V81B
- 31013 VAN DER KLOOT, W., and WILLIAMS, C. M. An experimental analysis of the spinning behavior of the cecropia silkworm [*Hyalophora cecropia*]. (Abs.) Anat. Rec. 108:511-512. Nov.1950. 447.8 An1
- 31014 VARI, L. Netherlands Lepidoptera (5th faunistic report). (In Dutch.) Ent. Ber. 13:180-184. (To be cont.) Dec.1,1950. 420 N38B  
Species of *Stigmella*, *Dechthria*, *Leucoptera*, and *Eupista*. new to the Netherlands.
- 31015 VECHT, J. VAN DER. Population studies on the coconut leaf moth *Artana catoxantha* Hamp. (Lep., Zyg.). Internat. Cong. Ent. Proc. 8:702-715. 1950. 422 C76  
Malaya and Indonesia.
- 31016 VIETTE, P. Nouvelle capture d'*Acentropus niveus* (Ol) (Lépid. Pyral). Entomologiste 6:131-132. July/Oct.1950. 421 En814
- 31017 VIETTE, P. Une petite collection de Lépidoptères Hétérocères des Îles Mariannes et Fidji. Soc. Ent. de France, B. 54:135-136. Nov.1949. 420 F84B
- 31018 VIETTE, P. Les travaux de P. Chrétien. Rev. Franç. de Lépidoptérologie 12:250-256. Ref. (To be cont.) Mar./Apr.1950. 421 P192
- 31019 WAY, M. J., and HOPKINS, B. A. The influence of photoperiod and temperature on the induction of diapause in *Diatraea oleracea* L. (Lepidoptera). J. Expt. Biol. 27:365-376. Ref. Dec.1950. 442.8 B77
- 31020 WHITING, A. R. Failure of pupation of *Ephestia* [kühniella] larvae following exposure to X-rays. (Abs.) Anat. Rec. 108:609. Nov.1950. 447.8 An1
- 31021 WILSON, C. E. Butterflies of the northern and central Sudan. Sudan. Min. Agr. Res. Div. Mem. 12:222-244. 1950. 24 Su25
- 31022 WOLFSBERGER, J. Neue und interessante Macrolepidopterenfunde aus Südbayern und den angrenzenden nördlichen Kalkalpen (zweiter beitrage zur fauna Südbayerns). Münch. Ent. Gesell. Mitt. 40:207-236. 1950. 420 M922
- 31023 ZEBRA, E. Control of moths. (In Italian.) Apic. d'Italia 17:185-186. Sept.1950. 424.8 Ap372  
Formaldehyde for *Galleria mellonella* (?); with discussion by G. Muzzati.



## ORTHOPTERA

- 31024 BEIER, M. Das genus *Panoploscelis* Scudder (Orthopt.-Pseudophyllinae). Internatl. Cong. Ent. Proc. 8:111-115. 1950. 422 C76
- 31025 CHOPARD, L. Orthoptéroïdes cavernicoles du Congo Belge. Rev. de Zool. et de Bot. Africaines 43:244-250. Oct.28,1950. 410 R326  
Includes new species in *Tivia* and *Homoeogryllus*.
- 31026 CHOPARD, L. Sur l'anatomie et le développement d'une blatte vivipare [*Gromphadorhina laevigata*]. Internatl. Cong. Ent. Proc. 8:218-222. 1950. 422 C76
- 31027 DELMAS, R., and RAMBIER, A. Notes orthoptérologiques. Soc. Ent. de France. B. 55:35-40. Mar.1950. 420 F84B
- 31028 FEYTAUD, J. Le criquet migrateur (*Locusta migratoria* L.) dans le sud-ouest de la France. Internatl. Cong. Ent. Proc. 8:640-642. 1950. 422 C76
- 31029 GAULDEN, M. E., and NIX, M. Effects of oxygen tension on X-ray induced mitotic inhibition. (Abs.) Genetics 35:665-666. Nov.1950. 442.8 G28  
*Chortophaga viridifasciata* embryos.
- 31030 GT. BRIT. CENTRAL OFF. OF INFORMATION REFERENCE DIV. International co-operation against the locust. London, 1950. 9 p. (Its R. 1960) 429 G793
- 31031 GUISCAFRÉ-ARRILLAGA, J. Nueva plaga en El Salvador; el grillo haitiano del café (*Chremon repentinus*). Cent. Nac. de Agron. C. Agr. 22,4 p. Sept.1950. 8 Sa54C
- 31032 HALLIDAY, M. Defensive behavior in the mantis [*Mantis religiosa*]. Canad. Field-Nat. 64:133-135. July/Aug.1950. 410.9 O8
- 31033 JACOBS, W. Vergleichende verhaltensstudien an feldheuschrecken. Z. f. Tierpsychol. 7:169-216. Ref. July 1950. 410 Z35  
Sonification in Tetrigidae and Acrididae.
- 31034 JANNONE, G. Cases of some singular morphological anomalies in Orthoptera and Mantodea (Insecta). (In Italian.) Lab. di Ent. Agr. B. 9:187-242. Ref. 1949. 420 P82B
- 31035 JOLIVET, P. Fluctuations dans une population de blattes et de grillons. Entomologiste 6:139. July/Oct. 1950. 421 En814
- 31036 KARABAG, T. Some new Decticinae (Orthoptera, Tettigonidae) from Turkey. Roy. Ent. Soc. London. Proc. Ser. B: Taxonomy 19:157-161. Dec.15,1950. 420 L84Pb  
New species in *Anterastes*, *Pholidoptera*, and *Montana*.
- 31037 KEY, K. H. L. A critique on the phase theory of locusts. Q. Rev. Biol. 25:363-407. Ref. Dec.1950. 442.8 Q2
- 31038 LAL, K. B. The flight against locusts [India]. Agr. & Anim. Husb. 1(3):65-68. Apr./Aug.1950. 22 Ag86
- 31039 LEIBOVITZ, A. The cockroach, *Periplaneta americana*, as a vector of pathogenic organisms. I. The acid-fast organisms; a preliminary report. Ofic. Sanit. Panamer. B. 30:30-41. Ref. Jan.1951. 449.9 P192B
- 31040 LUNAU, C. Zur heuschreckenfauna Schleswig-Holsteins. Natwiss. Ver. f. Schleswig-Holstein. Schr. 24(2):51-56. 1950. 509 K54
- 31041 MÁRQUEZ DELGADO, A. Resultados del ensayo con diversos insecticidas sobre chapulines. I. Chapingo 4:522-525. June 1950. 102 C36  
*Melanoplus mexicanus mexicanus* and *Sphenarium purpurascens*.
- 31042 REHN, J. W. H. Classification of the Blattaria as indicated by their wings (Orthoptera). Amer. Ent. Soc. Mem. 14,134 p. Ref. 1951. 420 P53M
- 31043 RICCI, I., and VERNIA, R. L. First results of locust control in the Province. (In Italian.) Romagna Agr. e Zootec. 35(14):2. Oct.1950. 16 R86
- 31044 ROTHFELS, K. H. Spontaneous and induced chromosome aberrations in the grasshopper *Chloeleitid conspersa*. (Abs.) Genetics 35:687-688. Nov.1950. 442.8 G28
- 31045 TAHMISIAN, T. N., and ADAMSON, D. M. The effect of anoxia on X-ray-induced injury in *Melanoplus differentialis* embryos. (Abs.) Anat. Rec. 108:516. Nov. 1950. 447.8 An1
- 31046 TAHMISIAN, T. N., and ADAMSON, D. M. Oxidase increase in *Melanoplus differentialis* eggs caused by X-irradiation. (Abs.) Anat. Rec. 108:516. Nov.1950. 447.8 An1
- 31047 TAHMISIAN, T. N., and ADAMSON, D. M. A phase contrast microscopy study of X-ray-induced pycnosis in the living cell. (Abs.) Anat. Rec. 108:572-573. Nov.1950. 447.8 An1  
*Melanoplus differentialis* embryos.
- 31048 UVAROV, B. P. Recent progress in locust and grasshopper research. Internatl. Cong. Ent. Proc. 8:693-694. 1950. 422 C76
- 31049 UVAROV, B. P. A second New Zealand stick-insect [*Acanthoxyla prasina*] (Phasmatodea) established in the British Isles. Roy. Ent. Soc. London. Proc. Ser. B: Taxonomy 19:174-175. Dec.15,1950. 420 L84Pb
- 31050 VALLE, R. DEL. Red locust [*Nomadacris septemfasciata*]. (In Portuguese.) Gaz. do Agr. 2:243, 245. Oct.1950. 24 G25
- 31051 VASIL'EV, K. A. Phases in Italian locust (*Calliptamus italicus* L.). (In Russian.) Akad. Nauk SSSR. Dok. 74:639-642. Sept.21,1950. 511 P444A  
Habits and behavior.
- 31052 WALOFF, N. The egg pods of British short-horned grasshoppers (Acrididae). Roy. Ent. Soc. London. Proc. Ser. A: Gen. Ent. 25:115-126. Dec.15,1950. 420 L84Pa
- 31053 WEIS-FOGH, T. An aerodynamic sense organ in locusts. Internatl. Cong. Ent. Proc. 8:584-588. 1950. 422 C76  
Experiments with stationary flight in *Schistocerca gregaria* and *Locusta migratoria*.

## SERICULTURE AND THE SILKWORM

- 31054 ALLEGRET, P. Influence de la rétention expérimentale de la soie sur la métamorphose de *Bombyx mori* (L.). Paris. Acad. des Sci. Compt. Rend. 232:268-270. Jan.15,1951. 505 P21
- 31055 DRILHON, A., and BUSNEL, R. G. Les acides aminés libres et les substances fluorescentes du sang et du tube de malpighi de la chenille de *Bombyx mori* L. Acad. des Sci. Compt. Rend. 232:182-184. Jan.8,1951. 505 P21
- 31056 HOLEC, E. Vom seidenkokon zum seidenfaden. Osterr. Kleintierzüchter 1950:855-856. (Concl.) Nov. 1950. 49 Os7
- 31057 MALUCELLI, P. Action du gesarol sur les élevages du ver à soie. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):497. 1950. 388 C765
- 31058 NUNOME, Z., and YANAGIDA, C. Morphological studies on the silk gland of the silkworm (*Bombyx mori* L.). I. (In Japanese.) Utsunomiya U. Col. Agr. B. 1:1-13. Feb.1950. 107.6 Ut7B  
English summary.
- 31059 OHSHIMA, K. Studies on the rational simplification of mother moth inspection method for the exclusion of pébrine disease from the silkworm. I. The theoretical basis of sampling method for the inspection effected on December 1945, by the Ordinance No. 31 of the Ministry of Agriculture and Forestry. (In Japanese.) Japan. Sericult. Expt. Sta. B. 13(1),61 p. Dec.1949. 425.9 J273B  
English summary.
- 31060 OMURA, S. Researches on the behavior and ecological characteristics of the wild silkworm *Bombyx mandarina*. (In Japanese.) Japan. Sericult. Expt. Sta. B. 13:79-130. Ref. Aug.1950. 425.9 J273B  
English summary.
- 31061 SERCHI, G., and MAZZONI, G. Complete and industrial utilization of chrysalis olli. (In Italian.) Chimi-ca 5:290-295. Ref. Nov.1950. 385 C445  
By-product of silk industry.

## SMALLER ORDERS

- 31062 AMSEL, H. G. Stammesgeschichte des menschen und läuse-systematik. Kosmos 46:507-509. Nov. 1950. 474 K842  
*Pediculus humanus humanus*, *P. humanus corporis* and *Phthirus pubis* on man and anthropoids.
- 31063 ASAHINA, S. On the life-history of *Epiophlebia superstes* (Odonata, Anisozygoptera). Internatl. Cong. Ent. Proc. 8:337-341. 1950. 422 C76
- 31064 BALLARD, W. W. Varietal differences in susceptibility to Thrips injury in upland cotton. Agron. J. 43:37-44. Jan.1951. 4 Am34P
- 31065 BARLET, J. Sur la constitution des boucliers notaux des Machilides. Internatl. Cong. Ent. Proc. 8: 535-540. Ref. 1950. 422 C76



- 31066 BERTRAM, D. S. and ROBERTS, E. W. The control of Mallophaga on cattle by contact insecticides. Internatl. Cong. Ent. Proc. 8:848-849. 1950. 422 C76  
DDT preparations for *Bovicola bovis* control.
- 31067 BLUNCK, R. Reiseeindrücke in der Türkei, speziell über Thrips tabaci im Orient als tabakschädling. (Abs.) Angew. Chem. 62:175-176. Apr. 6, 1950. 384 Z33
- 31068 BROADHEAD, E. A revision of the genus *Liposcelis* Motschulsky with notes on the position of this genus in the order Corrodentia and on the variability of ten *Liposcelis* species. Roy. Ent. Soc. London. Trans. 101:335-388. Ref. Dec. 30, 1950. 420 L84
- 31069 CONDÉ, B. Note sur le genre *Oreocampa* (Diptoures Campodéidés). Rev. Franç. d'Ent. 17:283-284. 1950. 421 R323
- 31070 COOREMAN, J. Contribution à l'étude des Suctoria du Congo Belge. Rev. de Zool. et de Bot. Africaines 43:329-335. Oct. 28, 1950. 410 R326
- 31071 DESPAX, R. Une némore nouvelle pour la faune espagnole (Plecoptera). Soc. Ent. de France. B. 54: 47-48. Mar. 1949. 420 F84B  
*Nemoura pyrenaica*.
- 31072 FEYTAUD, J. A propos des Reticulitermes de France. Internatl. Cong. Ent. Proc. 8:380-381. 1950. 422 C76
- 31073 GROSS, B., and BONNET, D. D. Plague in the Territory of Hawaii. I. Present status of plague infection, Island of Hawaii. Pub. Health Rpt. 66:209-214. Feb. 16, 1951. 151.65 P96  
Rodent and flea survey data.
- 31074 GUPTA, B. D. Some recommendations on the control of termites in sugarcane. Cur. Sci. 19:344-345. Nov. 1950. 475 Sci23
- 31075 HARKER, J. E. The effect of temperature on the final instar nymphs of three species of Australian Ephemeroptera. Roy. Ent. Soc. London. Proc. Ser. A: Gen. Ent. 25:111-114. Ref. Dec. 15, 1950. 420 L84Pa  
*Atalophlebia albiterminata*; *Caenis scotti*; *Leptophlebia crassa*.
- 31076 HICKIN, N. E. Larvae of the British Trichoptera. 30-31. Roy. Ent. Soc. London. Proc. Ser. A: Gen. Ent. 25:103-110. Dec. 15, 1950. 420 L84Pa  
30, *Tinodes pallidula* McLachlan (Psychomyiidae); 31, *Stenophylax vibex* Curtis (Limnophilidae).
- 31077 HORMANN, H. Beitrag zur epidemiologie der pest. Z. f. Hyg. Zool. u. Schädlingsbekämpf. 38:266-271. Ref. Sept. 1950. 449.8 Z36  
Role of rodents and fleas.
- 31078 JORDAN, H. E. K. On characteristics common to all known species of Suctoria and some trends of evolution in this order of insects. Internatl. Cong. Ent. Proc. 8:87-95. 1950. 422 C76
- 31079 KANERVO, V. *Frankliniella tenuicornis* Uzel (Thysanoptera) als intrafloraler schädling an gerste. Internatl. Cong. Ent. Proc. 8:647-653. 1950. 422 C76
- 31080 KIMMINS, D. E. Two new South American Aeshnidae (Odonata). Ent. News [Philadelphia] 62:43-48. Jan. 1951. 421 En88  
In *Neuraeschna*.
- 31081 KUITERT, L. C. Precautions against termites. Fla. Grower 59(2):16, 40. Feb. 1951. 80 F6622
- 31082 LHOSTE, J. Sur la présence de ganglions épipharyngiens chez *Forficula auricularia* L. Paris. Acad. des Sci. Compt. Rend. 232:264-266. Jan. 15, 1951. 505 P21
- 31083 LÜSCHER, M. Significance of 'fungus gardens' in termite nests. Nature [London] 167(4236):34-35. Jan. 6, 1951. 472 N21
- 31084 NAVARRO, J. Los crisantemos. Charla Rur. 145:22. (Concl.) Nov. 1950. 9 C37  
Control of thrips and plant lice.
- 31085 NEEDHAM, J. G. A new species of *Ophiogomphus* (Odonata). Ent. News [Philadelphia] 62:41-43. Jan. 1951. 421 En88
- 31086 PASTEELS, J. Sur des Strepsiptères du Congo Belge. Rev. de Zool. et de Bot. Africaines 43:281-291. Oct. 28, 1950. 410 R326  
Includes new species in *Xenos* and *Pseudoxenos*.
- 31087 SILVESTRI, F. Description of two new cavernicolous species of Campodeidae (Insecta Diplura) from the region of the Taurus Mountains. (In Italian.) Lab. di Ent. Agr. B. 9:27-31. 1949. 420 P82B  
New species in *Campodea* and *Phisocampa*.
- 31088 SILVESTRI, F. *Japygidarum* et *Projapygidarum* catalogus. Fam. Japygidae. Lab. di Ent. Agr. B. 9:40-75. 1949. 420 P82B
- 31089 SILVESTRI, F. New species of termitophilous and myrmecophilous Lepismatidae (Insecta Thysanura). (In Italian.) Lab. di Ent. Agr. B. 9:32-39. 1949. 420 P82B  
New species in *Metriotelura* and *Atopatelura*.
- 31090 SMIT, F. G. A. M. A new Echinophaga from Africa (Siphonaptera). Entomologist 83:272-274. Dec. 1950. 421 En8
- 31091 STROUD, C. P. A factorial study in the systematics of *Kaloterms*. (Abs.) Anat. Rec. 108:572. Nov. 1950. 447.8 An1
- 31092 TIPTON, V. J. New distributional records for Utah Siphonaptera. Great Basin Nat. 10:62-65. Oct. 10, 1950. 410 G79
- 31093 TUXEN, S. L. Über ein neues, sehr abweichendes stadium in der postembryonalen entwicklung der Proturen. Internatl. Cong. Ent. Proc. 8:577-583. 1950. 422 C76
- 31094 WEBB, J. E. Orthogenesis in the Anoplura. Internatl. Cong. Ent. Proc. 8:185-191. 1950. 442 C76
- 31095 WRAY, D. L. Some new Nearctic Collembola. Psyche 57:95-100. Sept. 1950. 421 P95  
Includes new species in *Folsomia*, *Tullbergia*, and *Onychiurus*.

## AGRICULTURAL ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

## GENERAL AND MISCELLANEOUS

- 31096 AMES, N. Farm and rural fire fighting. Firemen 18:12-13. Jan. 1951. 296.68 V88
- 31097 EARP, U. F., and BAKER, V. H. A plotting machine for the multiple-point potentiometer chart. Agr. Engin. 32:101. Feb. 1951. 58.8 Ag83
- 31098 ISGUR, B. Computing excavation and capacity of dugout ponds. Agr. Engin. 32:32-33. Jan. 1951. 58.8 Ag83
- 31099 LEREN, G. The measuring rod and "twelve fathoms." (In Norwegian.) Landbrukstidende 56:907-908, 913. Nov. 15, 1950. 11 L236  
Equipment for land measurement in use in Norway in the eighteenth century.
- 31100 LESTER, J. Is your farm safe? Mont. Farmer-Stockman 38(8):7. Dec. 15, 1950. 6 M764
- 31101 REED, I. F., and GORDON, E. D. Determining the relative wear resistance of metals. Agr. Engin. 32: 98-100. Ref. Feb. 1951. 58.8 Ag83
- 31102 SCHILLING, Der neue berufsstand. Landtechnik 6:1-2. Jan. 15, 1951. 58.8 L235
- 31103 TINDALL, C. Here are the facts about Missouri's rural roads. Mo. Rur. 92(3):8-9, 42-43. Feb. 10, 1951. 6 R8891
- 31104 U. S. EXTENSION SERV. Agricultural engineering extension work. Washington? 1951. 12 p. 1.913 E5Ag8
- 31105 ZHUKOV, A. S. Allocation of administrative centres on Karakul sheep raising state farms. (In Russian.) Karakulevodstvo i Zverovodstvo 3(4):32-37. July/Aug. 1950. 49 K14  
Layouts of state farms.

## FARM MACHINES AND EQUIPMENT

- 31106 ANHYOHOUS, R. Journées de démonstration de moto-viticulture, Montpellier, les 17 et 18 octobre 1950. Agriculture [Paris] 14:349-350. Dec. 1950. 14 Ag823
- 31107 APPLING, H. Lifting tons with one finger. Pacific Grange Farmer 1951:7-9. Jan. 1951. 6 P115  
Hydraulics.
- 31108 BARRENBRÜGGE. Vorführungen der technischen wanderlehreinrichtung im Sauerland. Landwirt. Wechnbl. f. Westfalen u. Lippe 107 A:1625-1626. Nov. 23, 1950. 18 L2346  
Equipment teaching.



- 31109 BOARDMAN, A. H.** Small man's sole salvation. *Farmer & Stock-Breeder* 65:343. Jan.30,1951. 10 F228 Mechanization.
- 31110 BOOKHOUT, B.** Mechanization and money. *Mich. Farmer* 215:28-29. Jan.6,1951. 6 M58
- 31111 BOULMIER, A.** L'outillage des champs dans le Département de Saône-et-Loire. *Études Rhodaniennes* 26:1-32. Ref. 1951. 473 Et8
- 31112 BURNOUF, J.** Exposition Internationale de la Motoculture à Senlis. *Rev. Agr. de l'Afrique du Nord* 48: 828-830. Nov.10,1950. 80 R326
- 31113 CAPISTRANO, S.** Farm mechanization. *Philippine Agr. Engin. J.* 1:106-111. Third Q.1950. 58.8 Ag88
- 31114 CASHMORE, W. H.** Survey of power on the land. *Farmers' Club. J.* 1950:96-107. 10 L84 Includes discussion Mechanization in Great Britain.
- 31115 CRUZ, S. R.** Partial mechanization for the lowland rice farmers. *Philippine Agr. Engin. J.* 1:90-94. Third Q.1950. 58.8 Ag88
- 31116 DECOUX, L.** Quelques aspects actuels de la mécanisation de la culture de la betterave. (Sum.) *Cong. Internat. des Indus. Agr. Rap.* 8(1):500-501. 1950. 388 C765
- 31117 DELASNERIE, J.** À propos de la XXVIII<sup>e</sup> Exposition Internationale de Motoculture. *Motorisation Agr.* 5:523-525,527,529. Oct.1950. 58.8 M85
- 31118 DOHNAL, T.** The mechanization of work in the vineyards. (In Czech.) *Českoslov. Akad. Zeměděl. Vest.* 24:546-550. Dec.1950. 19.5 C332
- 31119 DONAHOO, A.** Techniques of instruction in mechanized farming. *Visitor* 38(2):3-4. Jan.1951. 275.8 V822
- 31120 DONOHOO, A. W., and KUGLER, H. L.** Teachers keep up on farm mechanization. *Agr. Educ. Mag.* 23: 175-176. Feb.1951. 275.8 Ag8
- 31121 DUDLEY, R.** Bolts and breakdowns; the causes of machinery failures and the legal position arising therefrom. *Power Farmer* 6(2):39. Feb.1951. 58.8 P872
- 31122 ENGELHARD, J.** Les constructeurs et importateurs à Senlis; la motorisation d'une nouvelle tranche d'exploitations est une nécessité pour notre civilisation. *Motorisation Agr.* 5:559-560. Oct.1950. 58.8 M85
- 31123 FRENCH, O. C.** What farmers' problems are still unsolved? *Edison Elect. Inst. B.* 18:443-445. Dec. 1950. 335.8 Ed4 Farming improvements due to mechanization.
- 31124 GAIDE, A.** La mécanisation de la culture du coton aux Etats-Unis. *Marchés Colon.* 6:3131,3133-3134. Dec.30,1950. 286.8 M33
- 31125 JAKOB, R.** Bauern! Helft mit, die landmaschinpreise senken! *Tech. f. Bauern u. Gärt. Ausg. A* 2:469-470. Aug.25,1950. 58.8 T223
- 31126 KERMANN, K.** Körbe im kartoffelbau. *Kartoffelbau* 1:64-66. Aug.1950. 75.8 K145
- 31127 KRANICK, F. N. G.** Equipment for grassland farming. *Agr. Engin.* 32:35-36,43. Jan.1951. 58.8 Ag83
- 31128 KRIEBEL, M.** Maschineneinsatz im bäuerlichen familienbetrieb. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107A:1771-1773. Dec.21,1950. 18 L2346
- 31129 KUGLER, H. L.** Kansas reports on a revised program of training in farm mechanics. *Agr. Educ. Mag.* 23:178-179. Feb.1951. 275.8 Ag8
- 31130 LAGOS U., J. A.** La agricultura nueva. *Agr. Costarricense* 8:479-480. Dec.1950. 8 Ag895 Mechanization.
- 31131 LEBRUN, H.** La mecanisation agricole au service de l'agriculture. (Sum.) *Cong. Internat. des Indus. Agr. Rap.* 8(1):499-500. 1950. 388 C765
- 31132 LUK'JANOV, A. D.** Mechanization of work in the vineyards. (In Russian.) *Sad i Ogorod* 1950(10):46-48. Oct.1950. 80 Sa13
- 31133 MACDONALD, B. A.** Belgium buys farm machinery and implements from Canada. *Foreign Trade* 9:86-89. Jan.20,1951. 286.8 C162
- 31134 MANOR, J.** More machines better managed; the future of power on the land in relation to the rising costs of labour. *Power Farmer* 6(2):28-31. Feb.1951. 58.8 P872
- 31135 MARTIN, P.** La mécanisation de l'agriculture au Katanga. *Cour. Agr.* 15(26):1,3. Dec.20,1950. 24 C83
- 31136 MASEFIELD, G. B.** The improvement of hand tools for tropical agriculture. *World Crops* 3:69-71. Feb.1951. 281.8 W892
- 31137 MEDICI.** For a speedier mechanization of our agriculture. (In Italian.) *Not. Agr. [Mantova]* 6(38): 1-2. Sept.29,1950. 16 N845 Italy.
- 31138 MEINDL, G.** Maschinen-neuheiten auf der Wiener Herbstmesse. *Landwirtschaft* 1950:331-333,363-365. (To be cont.) Nov.-Dec.1950. 19 L235
- 31139 NATIONAL INSTITUTE OF AGRICULTURAL ENGINEERING.** Report RT 28-34. Wrest Park,Silsoe, 1949-1950. 58.9 N214R Reports on tests of various agricultural equipment made in cooperation with the Scottish Machinery Testing Station.
- 31140 POTTER, L. A.** Reduce your chore time and add income with farm power. *Natl. Live Stock Prod.* 29(5):12,16. Feb.1951. 280.38 N21
- 31141 RAAB, J.** Die technisierung in der landwirtschaft. *Bayern in Zahlen* 4:592-595. Dec.1950. 265 B34 Equipment on farms according to size class.
- 31142 RANEY, R. R.** The training of a farm implement designer. *Agr. Engin.* 32:17-20,26. Jan.1951. 58.8 Ag83
- 31143 RUBLEVSKIJ, I., and SERGEEV, P.** Mechanization of agriculture in the [European] countries of people's democracy. (In Russian.) *Sotsialist. Sel'sk. Khoz.* 21(8):51-53. Aug.1950. 281.8 So73
- 31144 SCHNELLBACH, O.** German agricultural machines. *Übersee-Post* 50:21-24. Dec.1950. 286.8 Ub3
- 31145 SCOTT, J. R.** Where the manufacturer stops. *Farmer's Mag.* 48:24,30,46. Jan.1951. 7 C165 Farm equipment.
- 31146 SILVERNAIL, H. E.** Custom work with F.F.A. farm machinery. *Agr. Educ. Mag.* 23:187,190. Feb.1951. 275.8 Ag8 Teaching the use of equipment.
- 31147 SMITH, P. B.** Great Western areas make rapid gains in mechanization. *Sugar Press* 35:6-8. Winter Q.1951. 66.8 Su322
- 31148 TOSELLO, A.** Notes on the possibilities for mechanization in coffee culture. (In Portuguese.) (Sum.) *São Paulo. Supt. dos Serv. do Café B.* 25:868-873. Nov. 1950. 68.29 Sa63
- 31149 WALZER, L.** Die landmaschine als schlüssel der urproduktion. *Landwirtschaft* 1950:333-336. Nov. 1950. 19 L235 Austria.
- 31150 WANDER, J. F.** Mechanisierte stallmist-ausbringung. *Deut. Landwirt. Presse* 73(23):1-2. Nov.4, 1950. 18 D482
- 31151 WIEGERS, G. W., JR.** Helping teachers meet needs in teaching farm mechanics. *Agr. Educ. Mag.* 23: 183,185. Feb.1951. 275.8 Ag8
- 31152 WILKINSON, R. A.** Completely mechanized beet plot shows fair yield at reduced cost. *Sugar Beet* 9(8):18-20. Dec.1950. 66.8 Su34B
- 31153 WIRTHGEN, H.** Die kartoffelbearbeitung mit dem vielfachgerät. *Tech. f. Bauern u. Gärt. Ausg. A* 2: 474-476. Aug.25,1950. 58.8 T223
- 31154 WRIGHT, S. J.** Mechanise the right jobs. *Farmers Wk. [London]* 34(5):47,49. Feb.2,1951. 10 F2226

#### Animal Husbandry Equipment

- 31155 BAXTER, E. S., and others.** Factors affecting the rate of machine milking. *J. Dairy Res.* 17:117-127. Ref. June 1950. 44.8 J823 P. M. Clarke, F. H. Dodd, and A. S. Foot, joint authors.
- 31156 CABRAS, F.** A proper travail. (In Italian.) *Agr. Tosc.* 5:454-456. Dec.1950. 16 Ag827 Cattle breeding equipment.
- 31157 CAROLIS, D. DE.** La consigna: implementos nuevos. Cómo los ganaderos pueden aprovechar la mecanización. *Rev. Ganad. [Buenos Aires]* 30(710):9. June 1950. 49 R32
- 31158 CHAMBLISS, C. G.** Brooding poultry with electricity. *South. Planter* 112:18-19. Jan.1951. 6 So89
- 31159 FOSTER, C.** This equipment overhaul is now overdue. *Poultry [London]* 108:31. Jan.9,1951. 47.8 P869 Brooders.
- 31160 FREUDENBERGER.** Vorbildlicher melkmaschineneinsatz in Holland. *Württemb. Wchnbl. f. Landwirt.* 118:11-13. Jan.6,1951. 18 W96



- 31161 GIESE, B., and MUHM, D. Dairying without carrying. *Successful Farming* 49(2):41,78,80-81. Feb. 1951. 6 Su12  
Piping arrangement to carry the milk.
- 31162 GORDON COLLIER, S. Progresos de la técnica lechera. *Indus. Lech.* 32:592,594. Nov.1950. 44.8 In26  
Mechanization on dairy farms.
- 31163 HALE, M. Reminders for the new hatching season. *Poultry World* 87:398. Dec.21,1950. 47.8 P8882  
Sanitation in incubator room.
- 31164 HALL, R. A. Hydraulic weighing scale. *Res. Engin.* 1950:7-8,23-24. Nov.1950. 470 R312  
For livestock in the field.
- 31165 HEIDENREICH, and FRIESEN, G. D. V. Langstroh, häcksel, zerrissenes stroh und torf als einstreue. 2. *Landtechnik* 5:815-821. Dec.31,1950. 58.8 L235
- 31166 KLEIN, G. T. Central heated brooding gains New England favor. *Turkey World* 26(2):14-15,94-95. Feb.1951. 47.36 T84
- 31167 KRENN, J. Die melkmaschine in der landwirtschaft. (Extr.) *Pflug* 3:265. Dec.1950. 10 P48
- 31168 LARUE, P. Mécanisation des opérations de laiterie; les machines à traire. *Monit. de la Mécan. Rur.* 43:363-364. Nov.1950. 58.8 M74
- 31169 LEGHIS, L. M. L'exploitation laitière: les vacheries modèles. *Paysan Franç.* 26(396):8-9. Dec. 1950. 14 P29  
Equipment.
- 31170 LINEHAM, G. E. K. Apparatus for studies on disinfection of milking machine teat cups. *J. Dairy Res.* 17:50-53. Feb.1950. 44.8 J823
- 31171 MAW, W. A. The machines take over. *MacDonald Col. J.* 11(4):6,8. Dec.1950. 101 M144  
On the poultry farm.
- 31172 NEW ZEALAND. DEPT. OF AGRICULTURE. Poultry keeping. 3. The theory and practice of incubation. *New Zeal. Dept. Agr. B.* 197,18 p. 1950. 50 N48Bu
- 31173 ONTARIO AGRICULTURAL COLLEGE. DEPT. OF BACTERIOLOGY AND POULTRY HUSBANDRY. Fumigation of incubators. *Canad. Poultry Rev.* 75(2):24-25. Feb.1951. 47.8 C16
- 31174 RICE, S. A. Try your brooder out before those chicks arrive. *Poultry [London]* 108:93. Jan.30,1951. 47.8 P869
- 31175 ROBERTS, W. J. Infra-red brooding cuts labour costs. *Poultry Farmer [London]* 124(3205):11. Jan.5,1951. 47.8 F312
- 31176 SHRADER, H. L. Brooding temperatures no longer a mystery. *Broiler Growing* 2(2):6,16-18. Feb. 1951. 47.8 B782
- 31177 THOMPSON, M. British livestock farming has a revival; agriculture is world's most mechanized. *Breeder-Stockman* 12(9):63-64. Feb.1951. 49 V81
- 31178 TURNER, C. W. Machine milking efficiency as influenced by the normal formation of the cow's udder. 2. *Surge News* 1950:1-4. Fall 1950. 44.8 Su7
- 31179 WHEELER, R. S. The mechanized poultry farm. *Soeast. Poultryman* 4:37,116-117. Jan.1951. 47.8 So872  
Equipment.  
Also in *Va. Poultryman* 5:37,116-117. Jan.1951. 47.8 V812
- 31180 WINNER, E. B. Save yourself some labor. *Poultry Tribune* 57(2):62. Feb.1951. 47.8 P8642  
Watering equipment.

#### Cultivation and Tillage Equipment

- 31181 BAUHAUS, A. Wie hackt der landwirt richtig? *Tech. f. Bauern u. Gärt. Ausg. A* 2:473-474. Aug.25,1950. 58.8 T223  
Equipment.
- 31182 BRICKWOOD, H. Preparing for spring cultivations. *Power Farmer* 6(2):45-47. Feb.1951. 58.8 P872  
Maintenance and repair of harrows and cultivators.
- 31183 CORSINI, T. Mechanical plowing on the share farm. (In Italian.) *Terra [Firenze]* 62:1-2. Jan.7,1951. 16 R274
- 31184 GONÇALVES, P. A. John Deere machines in rice culture in Beaumont, Texas. (In Portuguese.) *Lav. Arroz.* 4(46):39-41. Oct.1950. 59.8 L39
- 31185 GORDON, A. A simple rotary harrow for tractors. *Philippine Agr. Engin. J.* 1:95-96. Third Q. 1950. 58.8 Ag88
- 31186 HISSERICH. Schlepperspurlockerer eine Illusion. *Landmasch.-Rundschau* 2:200. Oct.1950. 58.8 L237
- 31187 KÖHLER, R. Die biotechnische tiefkultur. II. *Tech. f. Bauern u. Gärt. Ausg. A* 2:453-456. Aug.25, 1950. 58.8 T223
- 31188 MÉZY, J. L'utilisation des semences de betteraves façonnées et son incidence sur le démarrage mécanique. *Motorisation Agr.* 5:531,533,535. Oct.1950. 58.8 M85
- 31189 MOISEEV, N. F. Mechanization of vegetable culture on irrigated land. (In Russian.) *Sad i Ogorod* 1950(10):60-61. Oct.1950. 80 Sa13
- 31190 RAYNAUD, R. Le sous-solage. *Rev. Agr. de l'Afrique du Nord* 48:907-910. Dec.8,1950. 80 R326  
Equipment.

#### Fertilizer and Seed Distributors

- 31191 BAREISS, G. Erleichterung beim düngerstreuen. *Württemb. Wchnbl. f. Landwirt.* 117:1048-1049. Nov.18,1950. 18 W96  
Equipment.
- 31192 BEELER, M. N. Plant corn under cover; new tool tills and seeds in one operation. Leaves mulch on surface to check erosion. *Capper's Farmer* 62(2):20,37. Feb.1951. 6 M693
- 31193 CUMINGS, G. A. A fertilizer hopper for accurately applying either radioactive or ordinary fertilizers on experimental plots. *Agron. J.* 43:46-47. Jan. 1951. 4 Am34P
- 31194 FAHRINGER, F. Vom vielfachgerät zur bäuerlichen hackfruchtsmaschine. *Pflug* 3:255-257. Dec. 1950. 10 P48
- 31195 FISCHER, F. Neuerungen bei drillmaschinen und düngerstreuern. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1593-1694. Nov.16,1950. 18 L2346
- 31196 JONSSON, B. I. German method of seeding which saves grain. (In Swedish.) *Lantmannen* 34:989. Dec.23,1950. 11 L234  
Equipment.
- 31197 KNIGHT, L. J. Aerial crop dressing in New Zealand. *Power Farmer* 6:33-34. Jan.1951. 58.8 P872
- 31198 MIGNOTTE, F. Chargeurs et épandeurs de fumier. *Monit. Agr.* 3(140):2. Dec.17,1950. 14 M744
- 31199 OREKHOV, A. D. Mechanized sowing of grain cover crops. (In Russian.) *Les i Step'* 2(9):37-42. Sept. 1950. 99.8 L565  
In shelterbelts.
- 31200 STATER, V. L. Mechanical methods of fertilizer application. *Philippine Agr. Engin. J.* 1:105. Third Q.1950. 58.8 Ag88

#### Harvesting Equipment

- 31201 BERGE, O. I. Design and performance characteristics of the flywheel-type forage-harvester cutterhead. *Agr. Engin.* 32:85-91. Feb.1951. 58.8 Ag83
- 31202 CASHMORE, W. H. Potato harvesting by machine. (In Italian.) *Gior. di Agr.* 60:356. Nov.12,1950. 16 It1G
- 31203 GORSLER, A. Rationelle kartoffelernte; ein überblick über die auf der diesjährigen DLG-schau ausgestellten kartoffelrodemaschinen. *Kartoffelbau* 1:56-62. Aug.1950. 75.8 K145
- 31204 HIGGINS, F. H. New pickers demonstrated in California. *Farm Impl. News* 72:68-69. Jan.10,1951. 58.8 F22  
Cotton.
- 31205 JOYCE, J. Mechanical beet harvesting progresses. *Beet Grower* 4:202-209. Jan.1951. 66.8 B392
- 31206 JUNG, K. F. Zuckerrüben-erntemaschinen-kritisch betrachtet. *Deut. Landwirt. Presse* 73(24):4-5. Nov.18,1950. 18 D482
- 31207 KALBFLEISCH, W. Harvesting and storing grass and legume silage. *Agr. Inst. Rev.* 6:32-33. Jan. 1951. 7 Ag8  
Harvesting equipment and storage methods.
- 31208 KRIEBEL, M. Kombinierte maschinen zur kartoffel- und zuckerrübenerte. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1523. Nov.2,1950. 18 L2346
- 31209 KRIEBEL, M. Spezialmaschinen für die zuckerrübenerte. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1552. Nov.9,1950. 18 L2346



31210 KRIEBEL, M. Wie ernten wir unsere zucker-rüben? Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A: 1453-1454. Oct.19,1950. 18 L2346 Equipment.

31211 KRIEBEL, M. Zuckerrübenerte bei Bauer Upmeyer. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A: 1592. Nov.16,1950. 18 L2346 Equipment.

31212 MCNEAL, X. Effect of combine adjustment on harvest losses of rice. Ark. Agr. Expt. Sta. B. 500,21 p. Dec.1950. 100 Ar42

31213 MARING, K. Do not abuse the harvesting-threshing machine. (In Dutch.) Friesch Landtbl. 47:485. Aug.11,1950. 12 F91

31214 MILLIMAN, L. H. Raspberry picking machines developed. Better Fruit 45(8):15,36. Feb.1951. 80 B46

31215 MORRISH, B. K. Labour-saving device reduces dirt tare. Brit. Sugar Beet Rev. 19:71-72. Dec. 1950. 66.8 B77 Harvesting.

31216 PAULSON, W. E. Views of ginners regarding some effects of mechanical harvesting of cotton on the ginning business. Tex. Agr. Expt. Sta. Prog. Rpt. 1308, 5 p. Dec.26,1950. 100 T31P

31217 PETERS, R. W. Mechanical harvesting of cotton in Queensland. Queensland Agr. J. 71:197-205. Oct.1,1950. 23 Q33

31218 RAI, N. Progress in agricultural mechanization; new potato harvesting machines. (In Italian.) Agenzia Romana Note e Inform. Agr. 75:9. Nov.8,1950. 281.8 Ag3

31219 ROWSELL, J. Harvest under any conditions; instead of exposing the limits of the combine, the wet harvest has shown its true worth. Farmer & Stock-Breeder 3193:39. Jan.2,1951. 10 F228

31220 VERBEKE. Potato harvesting machines. (In Flemish.) Cult. en Handel 16:545-546. Sept.1950. 80 C892

31221 VOSTROKUTOV, S. P. Samokhodnaya senokosilka KS-10 [KS-10 automotive hay mowing machine]. Moskva,Gos. Izd-vo Selkhoz Lit-ry,1950. 79 p. 58 V93S

31222 WESETH, G. Combine threshing and sturdy stemmed grains. (In Norwegian.) Norsk Landbr. 16:477-478. Dec.15,1950. 11 N8122

#### Land Clearing Equipment

31223 BRADFORD, D. Removal of tree stumps on a fen farm. Brit. Sugar Beet Rev. 19:69-70. Dec.1950. 66.8 B77

31224 VOEVODA, D. K. A heavy attachable grubber. (In Russian.) Lesn. Khoz. 3(8):63-64. Aug.1950. 99.8 L5622

#### Processing Equipment Used on the Farm

31225 BRICKWOOD, H. Maintenance of the binder. 2. Power Farmer 6:50-51,53. Jan.1951. 58.8 P872

31226 CARTER, C. T. What is mow-drying? Worcestershire Agr. Chron. 19:51,53,55,57,59. Nov.1950/Jan.1951. 10 W892 Hay.

31227 DAVIS, R. B., JR., and BAKER, V. H. Fundamentals of drying baled hay. Agr. Engin. 32:21-25. Jan.1951. 58.8 Ag83

31228 DAVIS, R. B., JR., and BAKER, V. H. The resistance of long and chopped hay to air flow. Agr. Engin. 32:92-94,100. Feb.1951. 58.8 Ag83

31229 FOSTER, G. H. A drying bin for shelled corn and small grain. Ind. Agr. Expt. Sta. C. 365,8 p. Sept. 1950. 100 In2P

31230 GORSLER, A. Kartoffel-sortiermaschinen auf der diesjährigen DLG-ausstellung. Kartoffelbau 1:81-85. Sept.1950. 75.8 K145

31231 HOYER, O. G. The dairy show in Atlantic City. (In Danish.) Nord. Mejeri-Tidsskr. 16:144-146. 1950. 44.8 N752 Equipment.

31232 KRAMER, H. A. Engineering aspects of rice drying. Agr. Engin. 32:44-45,50. Jan.1951. 58.8 Ag83

31233 MCCREA, W., JR. Sample sheller developed for rice. Mktg. Activ. 13(12):13-14. Dec.1950. 1.942 A8M34

31234 SHALL, G. M. Mechanical sieve of A. F. Ulanov. (In Russian.) Selek. i Semen. 17(9):56-59. Sept.1950. 61.9 Se5

For cleaning seeds.

31235 THOME, K. E. Steam sterilizing cabinet—a means to better milk quality. (In Swedish.) Mjölpropaganda 27:294,296. Nov.1950. 44.8 M692

31236 WILSON, E. Threshing day means more corn for poultry. Poultry [London] 107:419. Nov.21,1950. 47.8 P869

31237 WOODFORDE, J., and WILLIAMSON, W. F. Crop drier engineering development. Silsoe, Bedfordshire, Eng., 1950. 13 p. 58 W852

#### Repair, Maintenance, and Construction Equipment

31238 BATTISTELLI, E. Brush and currycomb even for machines. (In Italian.) Agenzia Romana Note e Inform. Agr. 86:7. Dec.16,1950. 281.8 Ag3

Care of farm equipment.

31239 FORTH, M. W. A barn cleaner for you. Hoard's Dairyman 96:10-11. Jan.10,1951. 44.8 H65

31240 HAYNES, H. J. Welding and the farm shop program. Agr. Educ. Mag. 23:173. Feb.1951. 275.8 Ag8

31241 JOHNSON, G. A. A practical discussion of some of the basic imperatives involved in machinery maintenance. Wood Prod. 56:14-16. Jan.1951. 99.82 W856

31242 OWERS, R. H. Lumbering finds its place in the farm mechanics program. Agr. Educ. Mag. 23:174. Feb.1951. 275.8 Ag8

31243 REHRL, K. Die pflege landwirtschaftlicher maschinen. Landwirtschaft 1950:350-352. Dec.1950. 19 L235

31244 ROBERTSON, G. Winter care of farm machinery. Sugar Beet 9(8):25. Dec.1950. 66.8 Su34B

31245 SCHROCK, W. W. Conducting a welding work shop. Agr. Educ. Mag. 23:172,182. Feb.1951. 275.8 Ag8

#### Spraying and Dusting Equipment

31246 DIETZ, M. Die pflege der pflanzenschutz-geräte. Gartenjahr 5:5. Jan.1950. 80 G1932

31247 ELRINGTON, J. D., and IVERS, S. W. Erection of power sprays in relation to the dairy premises. Queensland Agr. J. 71:221-227. Oct.1,1950. 23 Q33

31248 GUILLOU, R. Adjustment of soil-fumigant injectors with engine-driven pumps. Agr. Engin. 32:26. Jan.1951. 58.8 Ag83

31249 MASSEY, L. M. Keeping roses healthy! Ame. Rose Mag. 9(4):32-35. Jan./Feb.1951. 80 Am327A Spraying equipment.

31250 MILLER, H. F., and GAINES, J. C. Size of spray nozzle in relation to cotton insect control. Tex. Agr. Expt. Sta. Prog. Rpt. 1312,1 p. Jan.18,1951. 100 T31P

31251 POUTIERS, R. Orientation de la technique des appareils de traitement antiparasitaire en France. Internat. Cong. Ent. Proc. 8:938-940. 1950. 422 C76 Spraying and dusting equipment.

#### Vehicles

31252 ALLUE MORER, A. Necesito comprar un tractor. Ceres [Valladolid] 15(173):11-12. Nov.1,1950. 15 C33

31253 BATEMAN, H. P. Double hitches—a real work-saver. Farm J. 75(3):32-33. Mar.1951. 6 F2212 Hooking on an extra implement behind the tractor.

31254 COCHRANE, R. H. It will pay you to keep your tractor fuel system working at 100 per cent. efficiency. New Zeal. Dairy Exporter 26(5):43,45. Nov.1,1950. 44.8 N484

31255 DAVIDOVICH, S. M. Traktory i avtomobili [Tractors and automobiles]. Moskva,Gos. Izd-vo Selkhoz Lit-ry,1950. 816 p. (Uchebniki i Uchebnye Posobia Dlya Tekhnikumov Mekhanizatsii Sel'skogo Khoziaistva) 291 D28

31256 ENGELHARD, J. Les tracteurs changent la face de l'agriculture française. Rustica 23:956. Nov.12, 1950. 14 R92

31257 FANNING, J. W. Mule farming doesn't fit tractors. Prog. Farmer, Ga.-Ala.-Fla. Ed. 66:26-27. Jan.1951. 6 P945G Costs and returns.

31258 FARMER, S. Planning fuel supplies; simple installations which save time and temper. Power Farmer 6(2):32-33. Feb.1951. 58.8 P872



- 31259 FISCHER-SCHLEMM, W. E., and KREPELA, W. Die bremsen der ackerschlepper und ihre anhänger. *Landtechnik* 5:821-824. Dec.31,1950. 58.8 L235
- 31260 HADDERS, A. Constructions de tracteurs modernes. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):499. 1950. 388 C765
- 31261 HAIN, K. Zum federausgleich der schlepper-anbaugeräte. *Landtechnik* 6:6-9. Jan.15,1951. 58.8 L235
- 31262 HOARE, E. R. Small tractors for the market gardener. *Power Farmer* 6:30-32. Jan.1951. 58.8 P872
- 31263 JACOBS. L'appareillage hydraulique des tracteurs agricoles. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):500. 1950. 388 C765
- 31264 JONES, W. D. Tractor costs on farms in Wales (1947-1948). *Aberystwyth*, 1950. 9 p. 58 J723
- 31265 LENGSELD, J. Zeitgemässe ackerwagen erleichtern die kartoffelernte. *Kartoffelbau* 1:79-81. Sept.1950. 75.8 K145
- 31266 LUKANOV, M. A. Remont bazisnykh detaley traktora STZ-NATI [Repair of basic parts of the STZ-NATI tractor]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 69 p. 58 L963R
- 31267 PARMENTIER, P. Contribution à l'étude du problème de l'alcool-carburant. *Génie Rur.* 43:404-411. Dec.1950. 58.8 A8
- 31268 PESARO, A. Characteristics of certain models of garden tractors. (In Italian.) *Agr. Ferrarese* 54:70-72. Mar.31,1950. 16 Ag87
- 31269 PESARO, A. More on garden tractors. (In Italian.) *Agr. Ferrarese* 54:93-94. Apr.30,1950. 16 Ag87
- 31270 RICHARDS, J. N. P. In defence of the track-layer. *Power Farmer* 6:49. Jan.1951. 58.8 P872
- 31271 SANTOVITO, D. Maintenance of tractors. (In Italian.) *Terra e Sole* 101:20-21. Jan.1951. 16 T273
- 31272 SEMENOV, V. M. Traktory i avtomobili [Tractors and automobiles]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 295 p. (Uchebniki i Uchebnye Posobiya Dlya Sel'skokhoziaistvennykh Tekhnikumov) 58 Se52
- 31273 SOROKIN, E. Kirovets DP-35 caterpillar universal tractor. (In Russian.) *Tekhsovety MTS* 11 (41/42):1-16. 1950. 58.8 G233
- 31274 TUMERMAN, A. What type of timepieces shall we supply for our tractors. (In Russian.) *Mashinno-Traktornaya Sta.* 10(8):41-43. Aug.1950. 58.8 M11
- 31275 VAINER, M. Methods for economizing on fuel at machine-tractor stations. (In Russian.) *Tekhsovety MTS* 11(37/38):1-7. 1950. 58.8 T233
- 31276 VAINER, M. Technical description of tractors of native manufacture. (In Russian.) *Tekhsovety MTS* 11 (37/38):8-16. 1950. 58.8 T233
- 31277 WELECZKA. Einachsschlepper und hackfräsen im gemüse-, obst- und gartenbau. *Landwirt. Wehnl. f. Westfalen u. Lippe* 108A:44-45. Jan.11,1951. 18 L2346
- 31278 WIRTH. Die schlepperverwendung in der württemberg-badischen land- und forstwirtschaft. *Statist. Monatsh. Württemberg-Baden* 4:362-366. Nov.1950. 265 St24
- Statistics.
- 31279 WRIGHT, R. A. The Nebraska and Australian tractor tests. *Power Farming Austral. & New Zeal.* 59 (11):6-7,9,11,13. Nov.1950. 58.8 P87
- 31280 ZONDLER, C. Vorbereitungen für ein schlepper-geschicklichkeitsfahren. *Württemberg. Wehnl. f. Landwirt.* 118:47-48. Jan.20,1951. 18 W96
- ### FARM STRUCTURES AND RURAL HOUSING
- 31281 BOUMA, G. J. A. Cheap farm construction. (In Dutch.) *Plattelands-Post* 6(50):12-13. Dec.23,1950. 12 P69
- 31282 CARTER, D. G., CURTIS, J. O., and HINCHCLIFF, K. H. Plans for farm buildings and livestock equipment. Ill. *Agr. Col. Ext. C. 666*, 20 p. Aug.1950. 275.29 IL62C
- 31283 KRUSE, B. B. Cooperative or central farm. (In Danish.) *Dansk Landbr.* 69:646-647. Dec.21,1950. 280.28 V91
- Joint ownership and operation of service buildings.
- 31284 KYLE, L. R. What do farmers think about building remodeling? *Purdue U. Work Simplification News Let.* 21:16-17. Nov.1950. 281.9 P97
- 31285 SOUTAR, D. S. Farm buildings improvement. (Excerpts.) *Scot. Farmer* 49:337. Jan.13,1951. 10 Sco8
- 31286 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Plans of farm buildings for Northeastern States. U. S. D. A. Misc. P. 278, rev., 126 p. 1950. 1 Ag84M
- 31287 YAMADA, B. Experimental study on the fundamental problems about the sand pressure. (In Japanese.) *Utsunomiya U.-Col. Agr. B.* 1:143-159. Feb.1950. 107.6 Ut7B
- English summary.
- Determination of pressure by the soil in designing a wall or other structure.
- ### Animal Shelters and Animal Service Buildings
- 31288 AFANAS'EV, V. A. To fulfill the plan of [building] construction work on fur-bearing animal state farms. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3 (4):38-41. July/Aug.1950. 49 K14
- 31289 ANGELL, G. N. Dream barn handiness for \$2500. *Wash. Farmer* 76:67. Feb.1,1951. 6 R121
- A remodeled dairy and milking barn.
- 31290 BATES, D. W., and BOYD, L. L. You can build this dairy barn; designed for our readers, this barn features simple, strong construction, and modern labor-saving ideas. *Hoard's Dairyman* 96:112-113. Feb.10, 1951. 44.8 H65
- 31291 BROWN, J. C. Push button broilers. *Amer. Poultry J.* 82:28,32. Jan.1951. 47.8 Am32
- Use of automatic installations in poultry housing.
- 31292 CLARK, M. Ventilating a basement barn. *Kraftsman* 8(6):8. Nov./Dec.1950. 44.8 K85
- 31293 CROSBY, J. A whale of a cage plant. *Calif. Farmer, North. Ed.* 194:62-63. Jan.27,1951. 6 C126
- Poultry cage houses and labor-saving devices.
- 31294 DOWNES, L. J. Rotate your layers round the garden. *Poultry Farmer [London]* 124(3205):12-13. Jan.5,1951. 47.8 F312
- Poultry enclosures and houses.
- 31295 FINCKH, W. Gesunde ställe-gesundes vieh! *Württemberg. Wehnl. f. Landwirt.* 118:28-29. Jan.13,1951. 18 W96
- 31296 GORSLINE, E. P. What's best for housing poultry in desert regions. *Calif. Farmer, North. Ed.* 194:66. Jan.27,1951. 6 C126
- 31297 HAMILTON, L. H. What about loafing barns? *MacDonald Col. J.* 11(4):2,4. Dec.1950. 101 M144
- 31298 HERGUETA NAVAS, L. Proyecto de gallinero abierto para veinte gallinas. *Balearic Isl. Diputación Prov. B. de Agr.* 74:12-13. Nov.1950. 15 B19
- 31299 HODGE, C. H. Upright milking. *Farmer's Mag.* 48:26-27,30. Jan.1951. 7 C165
- Raised milking stalls.
- 31300 JOHNSEN, H. O. Chinchilla housing. *Fur Trade J. Canada* 28(4):21-23. Dec.1950. 410 F965
- 31301 JONES, R. E. How to estimate poultry house building costs. *Poultry Tribune* 57(2):15,57-61. Feb. 1951. 47.8 P8642
- 31302 KLEIN, G. T. Turkey sunporches are efficient. *Amer. Poultry J.* 82:6,51-52. Jan.1951. 47.8 Am32
- 31303 LEGENDRE, G. L'aménagement du poulailler. *J. de la France Agr.* 6:1283;7:1296. (Cont.) Dec.22/28-Dec.29,1950/Jan.4,1950. 14 J829
- Title varies.
- 31304 LINDBLOM, N. Barns for milk cows not confined to stalls. (In Swedish.) *Mjölpropaganda* 27:267-268. Oct.1950. 44.8 M692
- 31305 MCHENRY, S. Central heating systems take less fuel and labor. *Broiler Growing* 2(2):8-9,38,40-42. Feb.1951. 47.8 B782
- 31306 MATOS, G. Lo que se hace en avicultura y lo que debería hacerse. *Mensajero Agr.* 49:43,50;50:27-28; 51/52:23-25. May-July/Aug.1950. 9.8 M52
- Construction of poultry houses.
- 31307 MOORE, A. C. Too much housing has useless fittings. *Poultry [London]* 107:416. Nov.21,1950. 47.8 P869
- 31308 NORTH CAROLINA. UNIVERSITY. STATE COLLEGE OF AGRICULTURE AND ENGINEERING. EXTENSION SERV. Plans for 40' x 40' laying house. *Soeast. Poultryman* 4:43. Jan.1951. 47.8 So872
- Also in *Va. Poultryman* 5:43. Jan.1951. 47.8 V812
- 31309 PASFIELD, D. It's insulation that counts in a house. *Poultry Farmer [London]* 124(3207):10. Jan.19, 1951. 47.8 F312



31310 PÖHLER, Saubere kühe im praktischen stall. Unser Milchvieh. Ausg. B/C 2(11):6. Nov.1950. 43.8 Un72

31311 PRICE, C. W., JR. Louisiana's 300-unit laying house. Prog. Farmer, Miss.-Ark.-La. Ed. 66(2):130,140. Feb.1951. 6 So81

31312 RABBETTS, J. F. Erecting new breeding pens. 1-3. Poultry Farmer [London] 124(3208):11;(3209):10;(3210):11. Jan.26-Feb.9,1951. 47.8 F312

31313 RASMUSSEN, W. H. Co-operatively-owned cow barns, a new project of Swedish dairy farmers. But-ter-fat [Vancouver] 28(11):6-7. Feb.1951. 44.8 B98

31314 ROBERTS, P. W. B. Small efficient milking parlour for large herd. Farmer's Wk. [Bloemfontein] 80:45,47. Nov.22,1950. 24 F225

31315 RONSON, R. How I planned my poultry plant. Family Herald & Wk. Star 82(3):10. Jan.18,1951. 7 F21 Labor-saving features of poultry houses and runs.

31316 SAMAT, M. La toiture et les parois du poulailler. Réveil Agr. 59:377. Dec.15,1950. 14 R322

31317 SCHNEIDER, V. Wagon-wheel system saves steps. Successful Farming 49(2):52-53,62-63. Feb.1951. 6 Su12

Wagon-wheel arrangement of the farrowing pens.

31318 SCHWANZ, H. L. Record weights at weaning time; dual-purpose creeps are a "best bet" for saving little pigs and producing gains up to a pound a day. Country Gent. 121(2):34,81. Feb.1951. 6 C833

31319 SEVINK, E. T. And now—brooders for pigs! Poultry Field 3(17):21. Jan.4,1951. 47.8 P8655

31320 SOMMERKAMP, G. Auch das milchvieh wird in England in tieflaufställen gehalten. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1484. Oct.26,1950. 18 L2346

31321 STERE, J. B. Give your cows plenty of fresh air with draft free ventilation. Kraftsman 8(6):6-7. Nov./Dec.1950. 44.8 K85

Dairy barn ventilation.

31322 STUCKEY, W. E. How safe is your barn? Successful Farming 49(2):55,94. Feb.1951. 6 Su12

31323 TENNESSEE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Summer range shelter. Soeast. Poultryman 4:45. Jan. 1951. 47.8 So872

Also in Va. Poultryman 5:45. Jan.1951. 47.8 V812

31324 THÉVENON, MME. Une poussinière rationnelle. Vie à la Campagne 40(483):22. Jan.1951. 80 V67

31325 TRITSCHER. Für die melkerschaft: über die notwendigkeit regelmässiger stallreinigung. Mitt. f. die Arb. u. Angestellten in der Land- u. Forstwirtschaft. 13:3. In Oberösterreich. Landwirtsch. 23(4). Jan.24,1951. 19 Ob23

31326 TURNER, C. N. Poultry house fan ventilation. World's Poultry Sci. J. 6:279-280. Oct./Dec.1950. 47.8 W89

31327 WAINES, H. A picture of loose cow housing as seen by a public health sanitarian. Butter, Cheese & Milk Prod. J. 42(2):26-27. Feb.1951. 286.85 B98Bu

31328 WARD, W. B. How pen stabling has stood the test. Successful Farming 49(1):46-47,94,96-97,107. Jan.1951. 6 Su12

Cattle.

#### Farmhouses and Farmsteads

31329 ENGELHARD, J. C'est à tort qu'on néglige l'organisation intérieure des fermes. Monit. de la Mécan. Rur. 43:357,359-360. Nov.1950. 58.8 M74

31330 GRAYSON, P. E. Farm housing in the United States and recent farm housing legislation. J. Farm Econ. 32:590-603. Ref. Nov.1950. 280.8 J822

31331 SCHAFFHAUSEN, J. F. A house to keep pace with your life. Country Gent. 121(2):23,82,84. Feb.1951. 6 C833

#### Greenhouses and Plant Service Buildings

31332 ELTER, L. Chauffage des serres. Cour. Hort. 12:673-675. Dec.1950. 80 C834

31333 KING, T. Greenhouse heating. South. Florist & Nurseryman 63(47):9-10,87-89. Feb.16,1951. 80 So86

31334 MARKHAM, V. Joseph Paxton and his build-ings. Roy. Soc. Arts. J. 99:67-84. Dec.15,1950. 501 L847J

Greenhouses.

31335 NEARY, J. Inexpensive and practical, a porch becomes a greenhouse. Horticulture 29:44-45. Feb. 1951. 80 H787

31336 SIRONVAL, C. Le phytotron de l'Institut Botanique de l'Université de Liège et ses possibilités. B. Hort. (n.s.):5:348-351. Dec.1,1950. 80 B873

A greenhouse equipped for research.

#### Materials and Methods

31337 BOSAZZA, V. L. How to avoid broken dam walls; practical advice on construction of cheaper and better types; soil-cement mixtures the answer. Farmer's Wk. [Bloemfontein] 80:13,15. Dec.27,1950. 24 F225

31338 READ, B. W., READ, W. G., and ZINSZER, H. A. Proper mixtures of Ellis County soils for adobe construction, and their physical properties. II. Kans. Acad. Sci. Trans. 53:557-577. Dec.1950. 500 K13T

31339 ROBINSON, M. How we made a soil-cement barnyard. Amer. Agr. 148:100,104. Feb.17,1951. 6 Am3

#### Storage Structures

31340 AIKKINEN, I. A new way of building AIV silos. (In Swedish.) Mjölpropagandan 27:196. Aug.1950. 44.8 M692

Finland.

31341 BRENDSTRUP, S. What kind of silos shall we build? (In Danish.) Dansk Landbr. 69:639-640. Dec.21, 1950. 280.28 V91

31342 FUSSELL, G. E. The garner for your wheate. Farmers Wk. [London] 33(26):45,47. Dec.29,1950. 10 F2226

Designs of barns from the days of the Norman Conquest.

31343 GRIERSON-JACKSON, W. Distribution of air in refrigerated apple storages. Agr. Engin. 32:41-43. Jan.1951. 58.8 Ag83

31344 GROVES, D. E. Forced air drying saves corn and labor. Ohio Farmer 207:16-17. Jan.6,1951. 6 Oh3

Corn cribs and equipment.

31345 HORN, G. Praktische grundsätze zum kartoffelsilobau. Landwirtbl. Weser-Ems 97:1057. Dec.14, 1950. 18 L2345

31346 SCOSSIROLI, R. Corn cribs for storing corn on the cob. (In Italian.) Sci. e Lav. 5:676-681. Nov.1950. 475 Sci27

31347 SOREMBE, J. Herstellung von dungstätten. Tech. f. Bauern u. Gärt. Ausg. A 2:466. Aug.25,1950. 58.8 T223

31348 THEIMER, O. F. Ventilation of grain storages. Agr. Engin. 32:106,108,110. Feb.1951. 58.8 Ag83

#### Walls and Fences

31349 BRIGHTEN, C. W. Cattle grids. Gt. Brit. Min. Agr. Agriculture 57:468-469. Jan.1951. 10 G79J

31350 BUJAN, J. Reparación de cargadores aereos y electrificación de cercos y alambrados. Charla Rur. 145:12-13. (Cont.) Nov.1950. 9 C37

31351 DONOVAN, J. M., JR. Fences; something old and something new. Blood-Horse 61:258-259,274,276,278. Feb.3,1951. 42.8 T392

31352 DUNCAN, J. E. Gates for sheepyard and farm. Westralian Farmers' Co-op. Gaz. 19:299,301,303-304. Nov.1950. 280.28 W522

31353 KUNKEL, E. Die isolation im elektroweide-zaun. Landwirtbl. Weser-Ems 97:1013-1014. Nov.30, 1950. 18 L2345

31354 NEETZEL, J. R. Cost of setting fence posts in Minnesota. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 350,1 p. Jan.1951. 1.9 F7625T

#### FARM UTILITIES

31355 CHRISTENSEN, E. J. Planning the Nebraska farmstead. IX. Utilities. Nebr. Elect. Farmer 5:6. Jan.1951. 335.8 N27

#### Electricity and Electrification

31356 FREITAS, H. DE. The problem of rural elec-trification. (In Portuguese.) Cooperativismo [Rio de Janeiro] 5(54):11,14-15. (To be cont.) Dec.1950. 280.28 C7856

31357 HENSEN, A. L., and WROCKLAGE, G. H. Rural industry needs three phase power. Co-op Power 8:6-7. Jan.1951. 335.8 C78

31358 HIROYAMA, N. Nosen ni okeru kosuiryoku hatsuden [Small hydroelectric generation in rural dis-tricts]. Tokyo, Nogyo Denka Kyokai,1950. 65 p. 335 H61



- 31359 KNIGHT, W. H., and FITZGERALD, O. A. Silver anniversary in Idaho farm electrification. Idaho. Agr. Col. Ext. Farm Electrification. L. 11, 4 p. July 1950. 275.29 Id13Fa
- 31360 LOWERY, O. H. Progress report on the Purdue Electric Farm. Ind. Agr. Expt. Sta. C. 362, 15 p. Sept. 1950. 100 In2P
- 31361 LUGOVSKOI, M. V. Eksploatafisiä gidro-tekhnicheskikh sooruzheniy sel'skikh gidroelektrostantsiy [Utilization of hydrotechnical constructions of rural hydroelectric stations]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 167 p. 290 L962
- 31362 MCCURDY, J. A., and OLVER, E. F. Adequate farm wiring. Pa. State Col. Agr. Ext. C. 373, 25 p. Nov. 1950. 275.29 P38C
- 31363 MAREC, E. Conseils pour l'exécution des installations électriques intérieures des fermes. Génie Rur. 43:398-399. Dec. 1950. 58.8 Au8
- 31364 MARSHALL, W. Load shedding and power cuts. Mod. Poultry Keeping 63:392. Oct. 25, 1950. 47.8 Eg3
- Changes and interruptions in electric power supply.
- 31365 MARTINES, V. The greatest Italian example of agricultural electrification. (In Italian.) Terra e Sole 100:407-409. Dec. 1950. 16 T273
- 31366 MULLEN, H. H. The big hired hand in Peace River Valley; how to bring electricity to the farm and put it to work is shown by Peace River Valley farmers. Fla. Grower 59:9, 14-15. Jan. 1951. 80 F6622
- 31367 SCHERUGA, F. Die Elektrizität auf dem Bauernhofe. Landwirtschaft 1950:365-367. Dec. 1950. 19 L235
- 31368 STIPPLER, H. H., and PETERSON, A. W. Electricity on farms in northwestern Washington. U. S. Bur. Agr. Econ. FM 77, 105 p. June 1950. 1.941 L6F22
- Washington Agricultural Experiment Station cooperating.
- 31369 U. S. S. R. GLAVSEL'ELEKTRO. Pravila tekhnicheskoy eksploatatsii sel'skikh elektrostano-vo-k [Regulations for technical operation of rural electric power plants]. Ed. 2. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 151 p. 335 Un393
- 31370 U. S. RURAL ELECTRIFICATION ADMIN. Report of the administrator, 1949/50. Washington, 1950. 42 p. 173.2 R88A
- 31371 U. S. RURAL ELECTRIFICATION ADMIN. Transmission line manual; physical design considerations. Washington, 1950. 25 p. 1.933 T684
- 31372 WALTNER, J. Förderung der Elektrifizierung in der Landwirtschaft. Landwirtschaft 1950:316-317. Nov. 1950. 19 L235
- Austria.
- 31373 WICKARD, C. R. Electricity in agriculture. Washington, U. S. Rur. Electrification Admin., 1951. 13 p. 1.91 A2W63
- Paper presented to the Sectional Meeting of the World Power Conference, New Delhi, India, Jan. 10-15, 1951.
- 31374 WICKARD, C. R. Meeting today's challenge. Washington, U. S. Rur. Electrification Admin., 1951. 10 p. 1.91 A2W63
- Address at annual convention of the NRECA, Cleveland, Jan. 29, 1951.
- Rural Electrification Administration program.

#### Heating, Lighting, and Radiation

- 31375 BERGARA, R. Método eléctrico del suelo caliente en los cultivos. Chacra 21(242):65. Jan. 1951. 9 C34
- 31376 BROOKS, B. New heating systems for the farm. Successful Farming 49(2):124, 126-128. Feb. 1951. 6 Su12
- 31377 STIFEL, W. Kraftmittel durch "dorfgas"! Aus mist und anderen abfallstoffen wird heizgas und treibstoff erzeugt. Bauern Ztg. 4(3):5-6. Jan. 19, 1951. 18 B324
- 31378 TUGMAN, J. L. Brooding's easy with infrared lamps. Successful Farming 49(2):50, 118. Feb. 1951. 6 Su12
- Radiant heat in the broiler house.
- 31379 U. S. RURAL ELECTRIFICATION ADMIN. Electric radiant house heating. Rev. Washington, 1950. 10 p. 1.933 E953
- 31380 WHITHED, M. O. Brooding with soil heating cable; southern New Jersey poultrymen try underfloor electric brooder. Poultry Tribune 57(2):66-69. Feb. 1951. 47.8 P8642

#### Power Plants, Motors and Engines on the Farm

- 31381 COCHRANE, R. H. Power from your tractor. Canterbury Chamber Com. Agr. B. 255, 4 p. Oct. 1950. 23 C162
- 31382 JAKOB, R. Welchen elektromotor wähle ich? Landmasch.-Rundschau 2:198-199. Oct. 1950. 58.8 L237
- 31383 LIETO, C. Agricultural fuels and their present characteristics. (In Italian.) Terra e Sole 101:7-10. Jan. 1951. 16 T273
- Motor fuels.
- 31384 VICTOR, B., and HOECHSTETTER, H. Die dämpfkolonne 20 jahre alt—sie kommt wieder. Land-technik 5:828-831. Dec. 31, 1950. 58.8 L235

#### Sewage and Waste Disposal

- 31385 LEECH, R. S. Septic tank and absorption field sewage disposal systems; for rural dwellers and business operators sewage disposal and water supplies are an important planning consideration. Ind. State Bd. Health. Mon. B. 53:234-235. Oct. 1950. 449.7 In2M

#### Telephones

- 31386 DELL, R. A. The rural telephone program. Fortnightly Telephone Engin. 12(2):18-20, 38. Feb. 1951. 335.8 F77
- 31387 MARTIN, R. RTA [Rural Telephone Administration] loan expands rural phone service for Oklahomans. Farmer-Stockman 54(2):10, 26. Feb. 1951. 6 Ok45
- 31388 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Better phone service for rural America, by G. W. Haggard, R. A. Dell and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11
- 31389 U. S. RURAL ELECTRIFICATION ADMIN. Acquisition of telephone systems. Washington, 1950. 3 p. 1.933 Ac7

#### Water Supply

- 31390 BLONDEL, F. L'eau courante à la ferme. Cerca 24(209):5-6. Nov./Dec. 1950. 105.3 An4C
- 31391 LAMONT, P. Rural water supplies. Roy. Soc. Arts J. 98:919-938. Sept. 22, 1950. 501 L487J
- Includes discussion.
- 31392 MADDEX, R. L. Water systems for the dairy farm. Hoard's Dairymen 96:64-65. Jan. 25, 1951. 44.8 H65
- 31393 MEYER, F. Hauswasserversorgung auf dem lande. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:8-9. Jan. 4, 1951. 18 L2346
- 31394 PEARSON, S. V. Developments in rural planning. Health & Soil 1950:5-10. Winter 1950. 56.8 H34
- Water supply in England.
- 31395 TORII, S. On the reservoirs for warming water. (In Japanese.) Tottori Soc. Agr. Sci. Trans. 9:2-3. Dec. 1949. 513 T64

#### AGRICULTURAL PRODUCTS: PROCESSING, DISTRIBUTION, AND STATISTICS

##### GENERAL

- 31396 ADASH, I. Kaitai nihon shokumotsu shi [History of Japanese food], v. 1. Tokyo, Otani Shoten, 1950. 479 p. 389 Ad13
- 31397 BARCELÓ, J. L. Panorama económico de los Territorios Españoles del Golfo de Guinea. Valencia Avfc. 7(6):32-33. July 1950. 47.8 V23
- Includes agricultural products.
- 31398 BRANNAN, C. F. Our national food supply. What's New Home Econ. 15(6):54-55. Feb. 1951. 321.8 W55
- 31399 BROCK, A. A. How U.S. stacks up in the world food supply. Fruit & Veg. Rev. 12(10):15, 25. Jan. 1951. 80 C1224
- 31400 CLARK-LOWES, D. N. We must produce more food or starve. Health & Soil 1950:13-15. Winter 1950. 56.8 H34
- Great Britain.
- 31401 COMPTON, K. T. Some factors in food research. In National Dairy Products Corporation. The role of research in the conservation of our nutritional resources, p. 19-30. New York, 1950. 389 N2196



- 31402 FORD, E. FAO discusses the world's food problem. *Health & Soil* 1950:35-36. Winter 1950. 56.8 H34
- 31403 GENEVIÈRE, J. Les Kountas et leurs activités commerciales. *Inst. Franç. d'Afrique Noire*. B. 12: 1111-1127. Oct.1950. 515 D14  
Touches upon agricultural products.
- 31404 GERY, R. Remous sur les marchés mondiaux. *Coopération* 20:12-16. Dec.1950. 280.28 C7845  
Raw materials.
- 31405 HANDELSKAMMER BREMEN. Bericht, 1950. Bremen, 1950. 187 p. 287 B753  
Includes the situation for various agricultural products.
- 31406 INDIA. DEPT. OF INFORMATION AND BROADCASTING. PUBLICATIONS DIV. Help grow more food. Delhi, 1950. 17 p. 389 In25
- 31407 JOSET, C. Production et consommation. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):575-576. 1950. 388 C765  
Belgium.
- 31408 KELLOGG, C. S. Can we feed the people of the world? *Queensland Co-op.* 5(12):21-22. Nov.30, 1950. 280.28 Q3
- 31409 KEUNE, O. Auslandsabhängige gesamternährung. *Kartoffelwirtschaft* 3:443-444. Nov.10, 1950. 286.83 K14  
German import requirements.
- 31410 KIHSS, P. Les Nations Unies s'attaquent au problème de l'alimentation. Paris, Dunod, 1950. 35 p. (Les Hommes et leur Nourriture) 389 K55N
- 31411 LECOMTE. Les industries agricoles et le milieu indigène au Congo Belge. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):578. 1950. 388 C765
- 31412 MANUFACTURERS' ASSOCIATION OF ISRAEL. Israel Industry, 1950; official directory. Tel Aviv, 1950. various paging. 225 M313  
Includes the food industry.
- 31413 MARZI, G. DE. Lines of Government policy in regard to food. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 7:1-3. Jan.27, 1951. 281.8 Ag3
- 31414 MIDDLESWART, W. H. Problems of subsistence that may confront the Quartermaster Corps in the future. *Food Technol.* 5:3-7. Jan.1951. 389.8 F7398
- 31415 MILLER, R. W. The world food situation. *Town & Country Church* 68:5-6. Feb.1951. 281.28 T66
- 31416 PILLSBURY, P. W. Hungers, war and peace. *Mod. Miller & Bakers News* 78(2):24-26. Jan.20, 1951. 298.8 M72  
Food in history.
- 31417 RECKE. *Gewerbefreiheit und ernährung.* *Deut. Milchhandels Ztg.* 72:706-707. Nov.17, 1950. 44.8 D48
- 31418 SAROUN, J. What is important in the production of food. (In Czech.) *Českoslov. Akad. Zeměděl. Vest.* 24:469-470. Nov.1950. 19.5 C332
- 31419 TEXAS ENGINEERING EXPERIMENT STATION. Research activities for the sessions 1948-49 and 1949-50. *Tex. Engin. Expt. Sta. B.* 122,74 p. Oct.1, 1950. 290.9 T31  
School of Engineering, Agricultural and Mechanical College of Texas, cooperating.  
Includes research in chemurgy, cottonseed processing, and soil mechanics.
- 31420 U. S. MUNITIONS BOARD. TEXTILE, FOREST AND AGRICULTURAL PRODUCTS BR. Central American tour, May 1950, by A. G. Peterson. Washington, 1950. 15 p. 159.51 C33  
Agricultural products.
- 31421 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. World food situation, 1951. U. S. Off Foreign Agr. Relat. WFP-1-51,68 p. Feb.8, 1951. 1.943 F7625
- 31422 WALCOTT, B. B. Carver's interest in food and nutrition. *Ala. Tuskegee Inst. Serv.* 15(7):7-8, 20. Feb.1951. 280.8 Se62
- 31423 WATSON, SIR J. S., and others. Grim food outlook spurs farming task. *Farmers Wk.* [London] 34(2):34-37, 39, 41. Jan.12, 1951. 10 F2226  
J. O. Cherrington, D. Seligman, R. Paterson, G. Saunders, G. W. Jones, H. P. Crapp, R. R. Bennett, W. J. West, and R. W. Ward, joint authors.  
Questions debated at the Oxford Farming Conference.
- 31425 BENESCH, R. Sur la méthode de détermination de la valeur boulangère de la levure. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):529. 1950. 388 C765
- 31426 BERGLUND, D. T. Methods for characterization of pectins. *Socker* 6:219-223. Ref. Dec.1950. 65.8 Sol
- 31427 BUCK, A. DE. Le dosage de l'eau dans certaines denrées alimentaires par la méthode Fischer. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):542. 1950. 388 C765
- 31428 CASTILLE, A. Le problème des dosages physico-chimiques des vitamines. *Cong. Internatl. des Indus. Agr. Rap.* 8(1):85-97. 1950. 388 C765
- 31429 CCRNFIELD, A. H., and POLLARD, A. G. Use of Titan yellow for the determination of magnesium in plant material. *J. Sci. Food & Agr.* 1:357-358. Dec. 1950. 382 Sol2
- 31430 DRUCE, E., and WILLCOX, J. S. The hydrolytic examination of plant cellulose isolated by the method of Druce and Willcox. *J. Agr. Sci. [London]* 40:157-159. Jan./Apr.1950. 10 J822
- 31431 HADORN, H., and JUNGKUNZ, R. Bleiessig, ein mangelhaftes klärungsmittel bei gravimetrischen zuckerbestimmungen. *Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hyg.* 41:430-435. Ref. 1950. 389.9 Sw6  
French summary.
- 31432 HARRIS, J. O. The relationship between stage of growth and pigment production by *Pseudomonas aeruginosa*. *Kans. Acad. Sci. Trans.* 53:494-499. Dec.1950. 500 K13T  
In food.
- 31433 HELLMAN, N. N. Determination of moisture in starch by drying. *Cereal Chem.* 28:79. Jan.1951. 59.8 C33
- 31434 KRAMER, A., BURKHARDT, G. J., and ROGERS, H. P. The shear-press: a device for measuring food quality. *Canner* 112(5):34-36, 40. Feb.3, 1951. 286.83 C16
- 31435 LAMPITT, L. H., and others. Starches and starch fractions. IV. *J. Sci. Food & Agr.* 1:371-372. Dec.1950. 382 Sol2  
C. H. F. Fuller, N. Goldenberg, and M. Vine, joint authors.  
Chemistry.
- 31436 LINDEMANN, E. Über die bestimmung der körnchengröße von stärke. *Stärke* 2:228-233. Sept. 1950. 309 St22
- 31437 LINDEN, A. C. VAN DER. Microbiological assay of vitamins and amino-acids. *Cong. Internatl. des Indus. Agr. Rap.* 8(1):75-83. Ref. 1950. 388 C765
- 31438 MAKOWER, B. Determination of water in some dehydrated foods. *Agr. Engin.* 32:105. Feb.1951. 58.8 Ag83
- 31439 MANLEY, C. H. Trends in the composition of present-day foods. *Nutr. Dietet. Catering* 4:127-132. Winter 1950. 389.8 N959
- 31440 MATCHETT, J. R. Food. *Analyt. Chem.* 23: 221-227. Ref. Feb.16, 1951. 381 J825A  
Analysis.
- 31441 MEEUSE, B. J. D. The reversible formation of starch in connection with a few biological problems. (In Dutch.) *Chem. Weekbl.* 47:17-23. Ref. Jan.13, 1951. 385 C42  
English summary.  
Starch formation in the plant.
- 31442 NYS, J. Emploi de la chromatographie en analyse industrielle. *Cong. Internatl. des Indus. Agr. Rap.* 8(1):167-179. Ref. 1950. 388 C765  
Includes analysis of food.
- 31443 RADLEY, J. A. Ultra-violet radiation in the food industry. I. *Food [London]* 20(232):11-15. Jan.1951. 389.8 F738  
Fluorescence analysis.
- 31444 RENARD, M. Le dosage des acides aminés par la méthode microbiologique. *Cong. Internatl. des Indus. Agr. Rap.* 8(1):63-73. 1950. 388 C765
- 31445 RISACK-VERHOEVEN, L. Composition et structure de l'amidon; absorption de l'iode. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):544. 1950. 388 C765
- 31446 SCHWIMMER, S. On the "dextrinase" activity of crystalline amylase preparations. *Cereal Chem.* 28: 77-78. Jan.1951. 59.8 C33

## ANALYSIS AND COMPOSITION

- 31424 BALLS, K. Enzymes in foods. *Nutr. Observ.* 11:43-45. July 1950. 389.8 N955



31447 THOMPSON, J. B. A browning reaction involving copper-proteins. In Symposium on Copper Metabolism, Johns Hopkins University, 1950. Copper Metabolism, p.141-153. Ref. Baltimore, Johns Hopkins Press, 1950. 386.2 Sy62  
Includes discussion.

31448 WEISER, H. H. Survival of certain micro-organisms in selected frozen foods. Quick Frozen Foods 13(7):50-51. Feb.1951. 389.8 Q4

#### CONSUMPTION AND UTILIZATION

31449 BRIERLEY, R. G. Chemurgy is success factor at A-D-M [Archer-Daniels-Midland Company]. Chemurg. Digest 10(2):4-7. Feb.1951. 381 N213Na

31450 BUTLER, K. D. It's what America eats that makes the market for our U. S. farmers. Better Farms 10(7):6,12. Jan.1951. 6 B462

31451 CREEK, C. R. Problems in conducting consumer-demand research and interpreting results. West. Farm Econ. Assoc. Proc. 23:17-21. 1950. 280.9 W527P

31452 MEHTA, T. R. Chemurgy and new resources from agriculture. Agr. & Anim. Husb. 1(3):31-36. Apr./Aug.1950. 22 Ag86

31453 MILLER, E. A. Food industry must cater to consumers' needs, wants. Sunsweet Standard 34(8):4-5. (To be cont.) Jan.1951. 286.83 Su7

31454 ROBERT, S. A. Chemurgy along the G., M. & O. [Gulf, Mobile and Ohio] Railroad. Chemurg. Digest 10(2):8-10. Feb.1951. 381 N213Na

31455 SUNLEY, J. H. Consumer surveys can help your product. Canad. Food Indus. 22(2):30-31. Feb.1951. 286.83 C166

Canned food.

31456 TEUTON, F. L. New uses for farm products. Washington, U. S. Bur. Agr. & Indus. Chem., 1951. 9 p. 1.98 T29

#### DISTRIBUTION, MARKETING, AND TRANSPORTATION

31457 BUHLE. Was die verbraucher überlegen sollten! Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1448. Oct.19,1950. 18 L2346  
Marketing.

31458 BUSCH, E. Emergency call for QM requirements; Quartermaster's plea. Canning Trade 73(32):13-14,20. Feb.26,1951. 286.83 T67

31459 CANADA. MARKETING SERV. ECONOMICS DIV. The market for farm products in north-central British Columbia, by J. C. Maxwell, and E. P. Reid. Ottawa, 1950. 53 p. 280.32 C16Ma

31460 COCKMAN, B. Kitchener [Ontario] likes its farmers' market. Family Herald & Wk. Star 82(2):5,15. Jan.11,1951. 7 F21

31461 CONYERS, L. N., and BYRNE, R. J. Horses to horsepower as co-ops streamline. News Farmer Coop. 17(10):14-15. Jan.1951. 166.2 N47

31462 COSWAY, B. Use trucks to advantage. Canad. Food Indus. 22(2):29. Feb.1951. 286.83 C166

31463 CROW, W. C. Boston market plans take shape. Blue Anchor 28:29. Feb.1951. 286.83 B62

31464 CROW, W. C. Motortruck transportation and agricultural prosperity of the South. Washington, U. S. Prod. & Mktg. Admin., 1951. 16 p. 1.956 M34C88  
Address at annual meeting of the Association of Southern Agricultural Workers, Memphis, Feb. 6, 1951.

31465 ERDMAN, H. E. Trends in cooperative expansion. J. Farm Econ. 32:1019-1030. Ref. Nov.1950. 280.8 J822

Farmers marketing and purchasing associations.

Discussion by E. A. Perregaux, p. 1060-1062.

31466 FARRINGTON, C. C. Impact of CCC operations upon marketing agencies. J. Farm Econ. 32:943-954. Nov.1950. 280.8 J822

31467 FOSTER, L. G. Wanted: local market information. Mktg. Activ. 14:7-11. Jan.1951. 1.942 A8M34

31468 GAUMNITZ, E. W. The influence of the Federal Food and Drug Administration in marketing. J. Farm Econ. 32:969-974. Nov.1950. 280.8 J822  
Discussion by H. M. Southworth, p. 988.

31469 GRAVES, E. K. Label redesign: don't ignore the labeler. Food Indus. 23:78,188. Jan.1951. 389.8 F737

31470 HARWELL, E. M., and SHAFFER, P. F. The check-out operation in self-service retail food stores. U. S. D. Agr. Inform. B. 31,72 p. Jan.1951. 1 Ag84Ab

31471 JACOBSEN, A. P. American surplus. (In Danish.) Dansk Landbr. 69:653. Dec.28,1950. 280.28 V91

31472 JAMES, H. C. Merchandising to success. Quick Frozen Foods 13(7):38-39. Feb.1951. 389.8 Q4

31473 KELLEY, J. N. Progress reported in the development and construction of new reefers. United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:150-152. 1951. 280.3939 Un3

31474 KORZAN, G. E. Problems encountered in conducting research on methods of improving quality. West. Farm Econ. Assoc. Proc. 23:22-26. 1950. 280.9 W527P  
Improved marketing methods for agricultural products.

31475 LE BEAU, O. R. Brands' known quality helps sell products. News Farmer Coop. 17(11):17-18. Feb. 1951. 166.2 N47

31476 LEIFERT, D. Am handel beteiligt! Deut. Landwirt. Presse 73(22):13. Oct.21,1950. 18 D482  
Marketing.

31477 MCCALLISTER, K. J. The role of market news in marketing and some problems. J. Farm Econ. 32:958-968. Nov.1950. 280.8 J822  
Discussion by A. G. Mathis, p. 988-989.

31478 NEW JERSEY. DEPT. OF AGRICULTURE. Dealers licensed under the Milk Dealers' Licensing and Bonding Act, Produce Dealers' Licensing and Bonding Act and Cattle Dealers' Licensing Act. N. J. Dept. Agr. C. 380,29 p. Sept.1950. 2 N46C

31479 NIGERIA. DEPT. OF MARKETING AND EXPORTS. Annual report for the year 1948-49. London, 1950. 24 p. 286.9 N56

31480 OTHMER, D. F. La réfrigération de wagons de chemin de fer pour le transport de produits alimentaires congelés. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):556-557. 1950. 388 C765

31481 PHILLIPS, C. D., and TURNER, G. E. Wholesale market for fresh fruits, vegetables, poultry, and eggs in Louisville, Kentucky. Ky. Agr. Expt. Sta. C. 69, 80 p. Oct.1950. 100 K41

31482 PIRMEZ, M. E. Pour une distribution plus rationnelle des produits alimentaires. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):574. 1950. 388 C765  
Belgium.

31483 RAYMAEKERS, R. La distribution des produits agricoles et alimentaires. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):573-574. 1950. 388 C765  
Belgium.

31484 ROGERS, W. A. "Rex" reefers are versatile. United Fresh Fruit & Veg. Assoc. Annu. Conv. 46:207. 1950. 280.3939 Un3

31485 SAVILLE, G. Transport charges. Food [London] 20(232):29-30. Jan.1951. 389.8 F738  
Great Britain.

31486 SAVILLE, G. Transport for food concerns. 8. Food [London] 19:430-431. Nov.1950. 389.8 F738

31487 SOMMERKAMP, G. Landwirtschaftlicher markt und bäuerliche betriebsführung. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1447-1448. Oct.19,1950. 18 L2346

31488 STINE, O. C. The impact of Commodity Credit Corporation operations on farm market prices and market channels. J. Farm Econ. 32:931-942. Nov.1950. 280.8 J822

31489 STOOPS, D. Disposal of surplus commodities. Washington, U. S. Prod. & Mktg. Admin., 1950. 5 p. 1.956 A21St7

Speech before the Department of Agriculture participants of the Midcentury White House Conference on children and Youth, Nov. 30, 1950.

31490 STROHBÜCKER, K. Lastenbewegung und betriebserfolg. Deut. Landwirt. Presse 73(22):3. Oct.21, 1950. 18 D482

31491 TEAGLE, W. Refrigerated motor carriers face major difficulties. Amer. Egg & Poultry Rev. 12: 24,26. Jan.1951. 47.8 Am33

31492 TURNER, SIR J. The battle for better living. Farmers' J. (n.s.)2(3):20-21. Jan.1951. 10 F2234  
On producer controlled marketing schemes in Great Britain.

31493 TURNER, SIR J. The marketing of farm products. Farmers' Club. J. 1950:108-123. 10 L84  
Includes discussion.  
British marketing policy.



31494 U. S. COMMODITY EXCHANGE AUTHORITY. Report of the administrator, 1949/50. Washington, 1950. 32 p. 1 C73Rea

31495 U. S. PRODUCTION AND MARKETING ADMIN. Report of the administrator, 1949/50. Washington, 1950. 83 p. 1.956 A2R29

#### GRADING, INSPECTION, STANDARDIZATION AND QUALITY

31496 BAIER, W. E., and WILSON, C. W. Proposed basis for tolerances of insecticide residues in food products. Food Technol. 5:38-40. Jan. 1951. 389.8 F7398

31497 BONNICEL, R. Dans l'étude des marchés: Influence de la qualité. Agriculture [Paris] 14:335-336. Dec. 1950. 14 Ag823

31498 CURRY, T. C. Twenty years of PACA [Perishable Agricultural Commodities Act]. United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:127-128. 1951. 280.3939 Un3

31499 GARROS. Le contrôle de la normalisation et du conditionnement des produits agricoles tropicaux dans les Territoires d'Outre-Mer. (Sum.) Agron. Trop. 5: 648. Nov./Dec. 1950. 26 Ag86

31500 MOSSEL, D. A. A., and TOLLENAAR, F. D. Food and nutrition. VIII. (In Dutch.) Voeding 11:440-450. Ref. Nov. 15, 1950. 389.8 V85  
English summary.

Food spoilage and its prevention.

31501 POPP, L., and WESTPHAL, W. Eine massen-erkrankung durch B. Ent. Breslau [i.e. Salmonella typhimurium] var. Binns. Z. f. Hyg. u. Infekkrank. 131: 626-630. 1950. 449.8 Z3

31502 STEFONI, G. Outbreak of food poisoning at Bari due to Salmonella enteritidis. (In Italian.) Prog. Vet. 5:658-659. Dec. 1, 1950. 41.8 P942

#### PACKING AND PACKAGING

31503 GARRETT, P. Packaging makes perfect; it is high time British housewives had a wider choice of food-stuffs in hygienic, and preferably transparent wrapping. Farmer & Stock-Breeder 65:448. Feb. 6, 1951. 10 F228

31504 HALLS, E. E. Applications of moistureproof wrappings. Food [London] 20(232):27-28. Jan. 1951. 389.8 F738

Last in a series of articles.

31505 LEFEBVRE, P. H. Une nouvelle methode rapide de detection et de localisation des fuites microscopiques des boîtes a conserves. Rev. des Ferment. et des Indus. Aliment. 5:183-188. Dec. 1950. 390.08 R32

31506 LEOPOLD, O. Neue durchsichtige verpackung. Niederösterr. Imker 1:246. Sept. 1950. 424.8 N55

31507 WILKINS, J. R. A study of the growth of molds on food wrapping paper. Urbana, 1950. 7 p. 448.2 W65

#### PRICES, PRICE CONTROL, AND RATIONING

31508 ADAIR, W. Measuring the rise in Scottish output; how values and quantities diverge. Farming News & No. Brit. Agr. 102(52):8. Dec. 29, 1950. 10 N82  
Prices and income.

31509 ADAMS, P. DE O. Fixing of minimum prices for farm products in 1951. (In Portuguese.) Soc. Rur. Bras. Rev. 30(360):50-52, 54-61. Nov. 1950. 9.2 B733

31510 AUDIDIER, L. Prix et indices d'augmentation des prix. Nord Agr. 7(8):16. Dec. 22, 1950. 14 N75  
France.

31511 BLACK, G. The role of the economist in agricultural price policy formation. West. Farm Econ. Assoc. Proc. 23:54-62. 1950. 280.9 W527P

31512 BLACKLEY, S. R. Agriculture under price control [Great Britain]. Farmer & Stock-Breeder 65: 262. Jan. 23, 1951. 10 F228

31513 CARPENTER, A. W. Looking ahead to price controls. East. Feed Merchant 2(2):44-45. Feb. 1951. 389.78 Ea7

31514 COOK, H. L. Central market quotations and country buying. J. Farm Econ. 32:975-987. Ref. Nov. 1950. 280.8 J822

Discussion by A. G. Mathis, p. 989-991.

31515 DELOYE, M. Le Plan Brannan et la politique de support des prix agricoles aux États-Unis. Soc. des Agr. d'Algérie. B. 93:281-303. Aug. 1950. 24 S01

31516 DELUCQ. Rapport prix-salaires. Terre d'Oc 33:34. Jan. 1951. 14 Ar5

31517 EKE, P. A. The crux of the farm price policy. West. Farm Econ. Assoc. Proc. 23:67-68. 1950. 280.9 W527P

31518 ELKINTON, C. M. An appraisal of agricultural support prices. West. Farm Econ. Assoc. Proc. 23:63-66. 1950. 280.9 W527P

31519 FEVRIER, J. G. Los precios agrícolas en Francia. Trab. Nac. 1575:851-852. Nov. 1950. 280.8 T672

31520 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Agricultural statistics, England and Wales. II. Prices of agricultural produce. London, 1950. 95 p. 256.01 Ag82Ag

31521 JURÉEN, L. Le coût de régimes alimentaires d'un niveau équivalent aux points de vue physiologique et nutritif. (In Swedish.) Sweden. Socialstyr. Sociala Meddel. 11:831-837. 1950. 257.3 S015  
French summary, p. 892.

31522 KÜBEL, F. Stabile preise? Deut. Landwirt. Presse 73(22):1-2. Oct. 21, 1950. 18 D482

31523 LANDSBERG, H. H. Change of course in agricultural policy. (In Italian.) Agenzia Romana Note e Inform. Agr. 72:8. Oct. 25, 1950. 281.8 Ag3  
Price supports in the United States.

31524 MUNDE, H. Preis und preisbildung. Landwirt. Wehnbl. f. Westfalen u. Lippe 107A:1687-1688. Dec. 7, 1950. 18 L2346

31525 MUNDE, H. Wirkung der preise in der landwirtschaft. Landwirt. Wehnbl. f. Westfalen u. Lippe 108A:5-7. Jan. 4, 1951. 18 L2346

31526 OSER, J. The politics of "basic" crops in farm legislation. J. Farm Econ. 32:666-672. Nov. 1950. 280.8 J822  
Price control.

31527 PEDERSEN, C., and others. Prissättningen på jordbruksprodukter i de nordiska länderna [Fixing prices agricultural products in Scandinavia]. Stockholm, LT:s Förlag, 1950. 158 p. 284.3 P342  
K. U. Pihkala, A. Solbraa, and K. O. Wahlfisk, joint authors.

31528 STAUBER, B. R. Current frontiers in farm price data. J. Farm Econ. 32:865-880. Nov. 1950. 280.8 J822

Includes discussions by H. M. Taylor and D. Paarlberg.

31529 STAUBER, B. R. The outlook for prices of commodities used for family living. Washington, U. S. Bur. Agr. Econ., 1950. 5 p. 1.941 A2St22  
Address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.

31530 STODART, J. A. When February-reviews were fairyland. Farming News & No. Brit. Agr. 102(52):3. Dec. 29, 1950. 10 N82

Looking back at farm prices in Great Britain.

31531 STRAUB, W. F. Price control without another OPA. Canner 112(3):10-11, 22. Jan. 20, 1951. 286.83 C16

31532 U. S. PRODUCTION AND MARKETING ADMIN. Compilation of statistical material concerning the proposed marketing agreement and order for the western Michigan Marketing area. Washington, 1950. 16 p. 1.956 D14C739

Chiefly prices of dairy and other farm products.

31533 U. S. PRODUCTION AND MARKETING ADMIN. DAIRY BR. Compilation of statistical material concerning Order No. 67 and the South Bend-La Porte, Ind., Marketing area. Washington, 1950. 20 p. 1.956 D14C737  
Chiefly prices of dairy and other farm products.

#### PROCESSING AND STORAGE

31534 APP, F. Public, consumer & grower relations of the food processing industry. Canning Trade 73(29): 42, 44, 46. Feb. 5, 1951. 286.83 T67

31535 ARBELLOT, M. Les problèmes de résistance à la corrosion dans les industries alimentaires et les alliages de nickel. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):550-551. 1950. 388 C765

31536 ARMSTRONG, F. K. Operating efficiency of refrigeration plants. Vt. U. & State Agr. Col. Dept. Anim. & Dairy Husb. Papers Presented Conf. Dairy Plant Oper. & Milk Distrib. 29:6-9. 1950. 44.9 V593

31537 BAETSLE, R., and HEMPTINNE, Y. DE. A propos du rendement en levurerie. Cong. Internatl. des Indus. Agr. Rap. 8(1):297-310. 1950. 388 C765



- 31533 BARR, R. H. Cost accounting for canners. *Canner* 112(6):16,18,20. Feb.10,1951. 286.83 C16
- 31539 BENESCH, R. Rendement maximum théorique et pratique de la levure. *Cong. Internatl. des Indus. Agr. Rap.* 8(1):289-295. 1950. 388 C765
- 31540 BERNFUS, E. Lagertechnik. *Boenkultur* 4:317-328. 1950. 19 B635
- 31541 BEZDEK, J. The biotechnical essence of the refrigerating and cooling technics. (In Czech.) *Ceskoslov. Akad. Zeměděl. Vest.* 24:492-497. Nov.1950. 19.5 C332
- 31542 BICKOFF, E. M. Phenolic antioxidants for carotene. *Amer. Oil Chem. Soc. J.* 28:65-68. Ref. Feb.1951. 307.8 J82
- 31543 BOURDET, A. Les améliorations que l'on pourrait souhaiter voir apporter aux levures de boulangerie. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):528. 1950. 388 C765
- 31544 BRENTON, P. How proper methods of operation converted failure into success. *Quick Frozen Foods* 13(7):112-113,117. Feb.1951. 389.8 Q4  
Locker plants.
- 31545 BROWN, A. H., and others. Flash heat; now fluids can be sterilized and cooled in a split second. *Food Packer* 32:20-21,38,40,42,44. Jan.1951. 286.83 C165  
M. E. Lazar, T. Wasserman, and W. D. Ramage, joint authors.
- 31546 CAPRA, C. Drying by freezing and sublimation (lyophilization). (In Italian.) *Fitoterapia* 21:117-123. Ref. July/Sept.1950. 450 F55
- 31547 COPPOCK, J. B. M. Some effects of a virile chemical industry on food processing. *J. Sci. Food & Agr.* 1:349-354. Ref. Dec.1950. 382 S012
- 31548 CORNING, V. Unique Washington locker plant combines canning and freezing. *West. Locker* 11(10,i.e.2):5-7. Jan.1951. 389.8 P112
- 31549 CRUESS, W. V. A note on sodium benzoate and chloramine T. *Canner* 112(5):29. Feb.3,1951. 286.83 C16  
As food preservative and sanitizing agent.
- 31550 CUMMING, H. T. A canner's year--nature willing. *Canner* 112(5):24,26. Feb.3,1951. 286.83 C16
- 31551 DAUPHIN, J. Les cultures sous contrat. *France. Min. de l'Agr. B. Tech. d'Inform.* 54:687-691. Nov.1950. 14 F844B  
Contracts between growers and processors.
- 31552 DESBRUXELLES, J. Les produits à ammonium quaternaire dans l'industrie alimentaire. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):556. 1950. 388 C765
- 31553 DOJMI DI DELUPIS, S. Une nouvelle methode pour l'amélioration des produits agricoles. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):484. 1950. 388 C765
- 31554 HEINZ, L. Aus der praxis der presshefeherzeugung. *Versanst. f. das Gärungsgewerbe. Mitt.* 1950:120-121. Sept./Oct.1950. 390.08 V67
- 31555 HILBERT, G. E. L'alcool d'origine agricole comme carburant virtuel pour les moteurs. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):526. 1950. 388 C765
- 31556 HILBERT, G. E. Trois principes nouveaux de conservation des produits alimentaires. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):557-558. 1950. 388 C765
- 31557 HÖNSCH, W. Die fabrikmäßige herstellung von puddingstärkemehl. *Stärke* 2:233-235. Sept.1950. 309 St22
- 31558 HUDTLOFF, M. J. What's in cold storage? *Mktg. Activ.* 14:12-14. Jan.1951. 1.942 A8M34
- 31559 JOHNSON, S. E. Contingency reserves for national security. *Farm Policy Forum* 4:13-17. Jan.1951. 281.8 F2274  
Agricultural products.
- 31560 KAUPPI, T. A. Silicons speed, sanitize processes. *Food Indus.* 23:44-46,194. Jan.1951. 389.8 F737
- 31561 KIEFER, R. M. The retailer suggests and recommends. (Excerpts.) *Canning Trade* 73(29):38,40. Feb.5,1951. 286.83 T67  
Canning.
- 31562 KOELENMID, W. A. A. B. Control of food spoilage. (In Dutch.) *Voeding* 11:465-486. Dec.15,1950. 389.8 V85
- 31563 KROULIK, A. A brief outline of the adjustment and working up of the agricultural primary products. (In Czech.) *Ceskoslov. Akad. Zeměděl. Vest.* 24:480-483. Nov.1950. 19.5 C332
- 31564 KROULIK, A. The microbes and environment in agrotechnology. (In Czech.) *Ceskoslov. Akad. Zemedel. Vest.* 24:470-477. Nov.1950. 19.5 C332
- 31565 LINDSEY, C. E. NCA [National Canners Association] will lead as in the past. *Canner* 112(5):19-20. Feb.3,1951. 286.83 C16
- 31566 MCKAY, D. D. You need a laboratory. *Canad. Food Indus.* 22(2):25,28. Feb.1951. 286.83 C166  
For control and research in the food industry.
- 31567 MALCORPS, G. Le conditionnement des produits vivriers en zone equatoriale forestiere du Congo Belge. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):504. 1950. 388 C765
- 31568 MARCILLA ARRAZOLA, J., HIDALGO FERNANDEZ-CANO, L., and GARRIDO MARQUEZ, J. Contribution à l'étude des substances solubles contenues dans les extraits aqueux des grains de céréales et agissant comme facteur de croissance ou comme metabolites essentiels pour les levures industrielles. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):528-529. 1950. 388 C765
- 31569 MARCILLA ARRAZOLA, J., and FERNÁNDEZ-CANO, L. H. Posibilidad de fabricar levaduras prensadas sobre prehidrolizados de residuos agrícolas. *Microbiol. Españ.* 3:125-130. 1950. 448.3 M583  
English summary.
- 31570 MARKSTEIN, D. Ten ways to pack a wallop into small advertisements. *Quick Frozen Foods* 13(7):114,116. Feb.1951. 389.8 Q4  
Locker plants.
- 31571 MONVOISIN, A. La conservation par le froid des denrées périssables. Ed. 4. Paris, Dunod, 1950. 618 p. 295 M763C  
Includes freezing.
- 31572 MOORE, W. A. Southern refrigerated warehouses forging ahead. *Amer. Egg & Poultry Rev.* 12:32, 34. Jan.1951. 47.8 Am33
- 31573 MORSE, R. E. Chemicals in processed foods. *Canner* 112(6):12-14. Feb.10,1951. 286.83 C16
- 31574 MULLER-MANGOLD, D. Die schweflige säure in der lebensmittelherstellung unter besonderer berücksichtigung der stärke- und stärkelederfabrikation. *Stärke* 2:215-228. Ref. Sept.1950. 309 St22
- 31575 NAKAZAWA, R. Hako oyobi seibutsukagaku bunken shu. Bibliography of fermentation and biological chemistry. Tokyo, Hirokawa, 1950. 363 p. 241.64 N14
- 31576 OTHMER, D. F., ARIES, R. S., and COPULSKY, W. Procédés industriels de fabrication de furfurol. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):570. 1950. 388 C765
- 31577 PAUL, A. B. Some economic changes in food manufacturing. *J. Farm Econ.* 32:584-589. Nov.1950. 280.8 J822
- 31578 PAULUS, R. C. Lessons we learned. *Canner* 112(5):18-19. Feb.3,1951. 286.83 C16  
Canning industry.
- 31579 RAMONDT, D. Les échangeurs d'ions dans l'industrie du glucose. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):544. 1950. 388 C765
- 31580 RAO, T. N. R., and KRISHNAMACHAR, V. S. Studies in the fermentation of carbohydrates by yeasts. III. *J. Sci. & Indus. Res.* 9B:278-280. Nov.1950. 475 J82
- 31581 ROBINSON, R. A. Quick-frozen foods. *Brit. Food J.* 53(626):1-2. Jan.1951. 389.8 B77
- 31582 ROGERS, H. B., JR. Several practical quality control measures. *Food Technol.* 5:31-33. Jan.1951. 389.8 F7398  
In food processing.
- 31583 SANTA MARIA LEDOCHOWSKI, J. Utilisation du clientel (Cynodonactylon P.) comme matière première dans les industries de fermentation. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):526. 1950. 388 C765
- 31584 SANTACRUZ, T. Treinta millones de pesetas representa la industria de jarabes. *Rev. Sind. de Estadís.* 5(19):26-28. July/Sept.1950. 263 Es8B  
Spain.
- 31585 SCHWOB, R. 5ème Foire de la Conserve à Parme. *Fruits d'Outre Mer* 5:417-422. Dec.1950. 80 F9492
- 31586 STARE, F. A. Opportunity hasn't abdicated. *Canner* 112(5):20,22. Feb.3,1951. 286.83 C16  
The canning industry.
- 31587 STEVENS, V. C. Refrigerated warehouses geared to serve Southwestern industries. *Amer. Egg & Poultry Rev.* 12:37. Jan.1951. 47.8 Am33



31588 VERGNAUD, P., and BOIGE, J. Dosage des alcools aliphatiques en mélange dans les produits de fermentation. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):525. 1950. 388 C765

31589 VICTOR PRODUCTS CORPORATION. The way to better living; your home instructions on processing food for freezing. Hagerstown? Md., 1950. 47 p. (Its Manual 72) 389.3 V66

31590 WARREN, S., JOHNSON, M., and RISSINGER, M. Freezing foods at home. Pa. State Col. Agr. Ext. C. 369,27 p. Oct. 1950. 275.29 P38C

31591 ZIEMBA, J. V. You can double output by modernizing. Food Indus. 23:47-49, 192, 194. Jan. 1951. 389.8 F737

Equipment and methods.

## STATISTICS

31592 BAVARIA. STATISTISCHES LANDESAMT. Statistisches taschenbuch für Bayern, 1951. München, 1950. 128 p. 265 St25

Includes agricultural statistics.

31593 CHRISTOPHERSEN, R. Recopilación de la estadística agropecuaria del Uruguay. Uruguay. Dir. de Agron. P. 102, 168 p. 1950. 9.9 Ur84

31594 DRACOS, E. Agricultural census. Countryman [Nicotia] 4(12):6. Dec. 1950. 25 C83

Cyprus.

31595 DUFRASNE, M. Aperçu de l'état actuel en Belgique de la documentation statistique en matière agricole; examen particulier de la manière dont le recensement mondial de l'agriculture est exécuté en Belgique. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):572-573. 1950. 388 C765

31596 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Agricultural statistics 1946-7; United Kingdom. I. London, 1950. 49 p. 256.01 Ag82Ag

Department of Agriculture for Scotland and Ministry of Agriculture, Northern Ireland, cooperating.

31597 INDIANA. AGRICULTURAL EXPERIMENT STATION. Indiana crops and livestock. Ind. Agr. Expt. Sta. Ind. Crops & Livestock 302, 4 p. Nov. 1, 1950. 252.25 Ag8

31598 JENSEN, H. L. Plant production 1950. (In Danish.) Dansk Landbr. 70:4-5, 6-8. Jan. 4, 1951. 280.28 V91

Field crops.

31599 MORTARA, G. Basic information on Brazil; agricultural production of Brazil in the year 1949. (In Portuguese.) Brazil. Cons. Nac. de Geog. B. Geog. 8(85):84-93. Apr. 1950. 331.9 B73

Statistics.

31600 SOUTHERN RHODESIA. CENTRAL AFRICAN STATISTICAL OFF. Report on the agricultural and pastoral production of European farmers, 1948/49. Salisbury, 1950. 80 p. 270 R348R

Statistics.

31601 UNITED NATIONS. DEPT. OF ECONOMIC AFFAIRS. STATISTICAL OFF. Report on the International Training Centre on Censuses and Statistics for Southeast Asia and Oceania held at New Delhi and Calcutta, India from November 1949 to February 1950. New York, 1950. 39 p. 251 Un356St

In cooperation with the Government of India, the Food and Agriculture Organization of the United Nations, and the Economic Commission for Asia and the Far East of the United Nations.

Census taking for agriculture and population.

31602 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. World summaries of crop and livestock statistics; schedule of contents and release dates for 1951. Washington, 1951. 6 p. 1.943 W896

31603 U. S. PRODUCTION AND MARKETING ADMIN. Cropland utilization by commodities, 1940-50, with averages. Washington, 1950. 3 p. 1.956 G76C88

31604 VENEZUELA. DIRECCIÓN GENERAL DE ESTADÍSTICA. Anuario estadístico de Venezuela, 1948. Caracas, 1950. 559 p. 255.9 Es8A

Includes statistics of agricultural production, prices, and trade.

31605 WIRTH. Die endgültigen ergebnisse der bodenbenutzungserhebung 1950 in Württemberg-Baden. Statist. Monatsh. Württemberg-Baden 4:324-328. Oct. 1950. 265 St24

## BEVERAGES AND CONDIMENTS

31606 ANTONIANI, G., and FEDERICO, L. De la nature des processus d'hyperoxydation de l'Acetobacter aceti. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):537. 1950. 388 C765

In vinegar manufacture.

31607 ARMANDO, M. More on Tuscan Vin Santo. (In Italian.) Agr. Tosc. 5:451-453. Dec. 1950. 16 Ag827

31608 BARBA, L. DELLA. Wine and spring. (In Italian.) Agr. Ferrarese 54:103. Apr. 30, 1950. 16 Ag87

Addition of metabisulphite.

31609 BERISTAIN, B. La generosidad de los vinos comunes. Semana Vitivinif. 5(27):3. Nov. 4, 1950. 95.8 Se5

31610 BIEDERMANN, W. Über die verwendung von ionenaustauschern in der getränkeindustrie. Schweiz. Z. f. Obst- u. Weinbau 60:26-29. (To be cont.) Jan. 27, 1951. 80 Sch9

31611 BRANAS, J. Quand le vin est fait il faut le faire boire à autrui. Prog. Agr. et Vitic. 1950:397-402. Dec. 31, 1950. 14 P94

31612 BREMOND, E. Les soins à donner aux vins nouveaux. Rev. Agr. de l'Afrique du Nord 48:840-844, 863-867. Nov. 17, 24, 1950. 80 R326

31613 BROADLEY, SIR H. World coffee potentials—supply and demand. Coffee & Tea Indus. 74:23, 46. Jan. 1951. 389.8 Sp4

31614 BROWN, E. M. Méthodes de production des vins de Californie. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):530. 1950. 388 C765

31615 BULL, I. Produce more coffee. Indian Coffee Bd. Mon. B. 14:3-4. Jan. 1950. 68.29 In23M

31616 BUNKER, H. J. pH in brewing. Food [London] 19:418-422, 431. Ref. Nov. 1950. 389.8 F738

31617 CARRION, P. Nuevo procedimiento de vinificación continua. Agricultura [Madrid] 19:526-529. Nov. 1950. 15 Ag84

31618 CASTELLI, T. Les agents de la fermentation vinicole dans les régions chaudes d'Italie. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):531. 1950. 388 C765

31619 CERUTTI, G. La teneur en alcool méthylique des vins italiens. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):532. 1950. 388 C765

31620 CLERCK, J. DE, and ROEY, G. VAN. Dosage diastasique des dextrines dans les moûts et les bières à l'aide de "mylase P." Louvain. U. Assoc. des Anciens Etud. en Brasserie. B. 46:109-115. Oct. 1950. 390.9 L93

31621 COOMBER, H. E., and COOMES, T. J. Ginger from Sierra Leone. Colon. Plant & Anim. Prod. 1:140-143. Apr./June 1950. 472 C71

31622 EGGENBERGER, W. Aufgaben und tätigkeit der abteilung weinfach an der Schweiz. Obst- und Wein-fachschule Wädenswil. Schweiz. Z. f. Obst- u. Weinbau 60:23-26. Jan. 27, 1951. 80 Sch9

31623 ENGEL, F. Beitrag zur topographie der mikroorganismen im weingarten und im keller unter besonderer berücksichtigung der infektionen im keller. Versanst. f. das Gärungsgewerbe. Mitt. 1950:117-118. (Cont.) Sept./Oct. 1950. 390.08 V67

31624 FABRE, P. H. La crise viticole; la technique de sulfitation-désulfitation C.I.D.; les dérivés du raisin. Raisins et Fruits de France 8(24):2-9. Oct./Dec. 1950. 80 R132

31625 FEDERICO, L. Sur l'origine de l'acide succinique dans la fermentation alcoolique. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):527. 1950. 388 C765

In wine manufacture.

31626 FLYGARE. Die verwertung verdorbener moste zu trinkbranntwein. Bad. Landwirt. Wchnbl. 117:846. Dec. 9, 1950. 18 B142

31627 FONTANILLE, H. Le marché du vin: les conditions de l'échelonnement des sorties sont modifiées. Algerie Agr. et Vitic. 28(1146):1. Dec. 16, 1950. 24 AL37

31628 FUSTER JAUME, F. Apuntes de enología. Balearic Isl. Diputación Prov. B. de Agr. 74:4. Nov. 1950. 15 B19

31629 GAMBARELLI, G. Outlook for American Vermouth. Wines & Vines 32:8. Jan. 1951. 95.8 C122



- 31630 GARINO-CANINA, E. Doit-on admettre l'emploi en œnologie du ferrocyanure de potassium? (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):529-530. 1950. 388 C765
- 31631 GARINO-CANINA, E. La pratique œnologique du "governo" dans le cadre des transformations chimico-biologiques de la refermentation. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):532. 1950. 388 C765
- 31632 GENTILINI, L. La desulfitation des mouts muets. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):532. 1950. 388 C765
- 31633 GIFFORD, C. Monsooning of Robusta coffee. Indian Coffee Bd. Mon. B. 14:11-12. Jan.1950. 68.29 In23M
- 31634 GILLIEAUX, P. La technologie du café au Congo Belge. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):562. 1950. 388 C765
- 31635 GRAFF, Y. Le potentiel d'oxydo-réduction; application des notions d'oxydo-réduction à la brasserie et à l'œnologie. Ann. de la Nutr. et de l'Aliment. 4:253-294. Ref. 1950. 389.8 An73
- 31636 GRANT, W. S. How important is tea to profits. Natl. Food Distrib. J. 22(10):12. Jan.1951. 286.28 N212
- 31637 GUILLAUME, J. Quelques considerations sur le rhum. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):581. 1950. 388 C765
- 31638 HELM, E. Stability of pasteurised beer. Cong. Internatl. des Indus. Agr. Rap. 8(1):327-337. Ref. 1950. 388 C765
- 31639 HÜCKSTADT, J. Mikroskopische untersuchung des kakaopulvers für kakaogetränke. Süddeut. Molk.-Ztg. 71:1427. Oct.6,1960. 44.8 Su2
- 31640 INTER-AMERICAN INSTITUTE OF AGRICULTURAL SCIENCES. Informe sobre el desarrollo del programa cafetero del Instituto Interamericano de Ciencias Agrícolas. Washington, Unión Panamericana, 1950. 34 p. 150.91 In89
- 31641 ISLIP, H. T., and MATTHEWS, W. S. A. Cinnamon bark from Seychelles. Colon. Plant & Anim. Prod. 1:119-122. Apr./June 1950. 472 C71
- 31642 KLING, G. Sorgenkind hastrunk. Landwirtschaft 1950:302-303. Oct.1950. 19 L235  
Wine manufacture.
- 31643 KOCH, J. Towards winnowing efficiency. Confectionery Prod. 17:29,31,33,38. Jan.1951. 389.8 C762  
Processing equipment for cocoa beans.
- 31644 LACKMANN, H. Wie bereite ich einen schmackhaften wein aus schlehen bzw. hagebutten? Landwrt. Wchnbl. f. Westfalen u. Lippe 108A:18. Jan.4,1951. 18 L2346
- 31645 LAMPE, H. J. Moderne pH-messung. II. Brauwissenschaft 1950:235-237. Dec.1950. 390.8 B733
- 31646 LA ROSA, W. V. New color test for control of SO<sub>2</sub>. Wines & Vines 32:16. Jan.1951. 95.8 C122  
In wine manufacture.
- 31647 MARCILLA ARRAZOLA, J., and FEDUCHY MARINO, E. Contribution à l'étude de la fermentation acetique dans l'elaboration des vinaigres de vin avec des Acetobacter selectionnés. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):537. 1950. 388 C765
- 31648 MATAGRIN, A. Methodes agricoles et vinicoles au-delà du "rideau de fer." Terre d'Oc 32:547-548. Dec.1950. 14 Ar5  
Wine industry.
- 31649 MATIESEN, D. The must season 1950. (In Swedish.) Sveriges Pomol. För. Fruktodlaren 21:222-223. 1950. 86 Sv2F
- 31650 MEISSONNIER, F. L'usine à vin moderne. Potasse 24:188-190. Dec.1950. 57.8 P84  
Includes wine manufacture.
- 31651 MESTRE ARTIGAS, C. Nouvelle methode pour l'obtention de vins ordinaires au moyen de fermentations continues. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):531. 1950. 388 C765
- 31652 MIR, R. M. Las marras o fallas de las viñas. Cult. Mod. 33:404-405. Nov.1950. 15 C89
- 31653 MONTANARI, V. Fine wines of Venetia in light and shadow. (In Italian.) Agr. delle Venezie 4:307-353. Oct./Dec.1950. 16 Ag826  
The industry.
- 31654 MOORES, R. G., and GRENINGER, D. M. Determination of trigonelline in coffee. Analyt. Chem. 23:327-331. Ref. Feb.16,1951. 381 J825A
- 31655 NEGRE, E. Etude de quelques appareils vinicoles du point de vue œnologique. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):530. 1950. 388 C765
- 31656 NEUNER, J. Mögliche fehlerquellen bei der blauschönung. Landwirtschaft 1950:355-356. Dec.1950. 19 L235  
In wine.
- 31657 O'NEAL, R., and CRUESS, W. V. Comparative effects of casein, gelatin and bentonite fining. Wines & Vines 32:17-18. Jan.1951. 95.8 C122  
Wine manufacture.
- 31658 OSGOOD, G., and HEIDE, R. VON DER. La stabilité des vins blancs en rapport avec le traitement au ferrocyanure de potassium et filtration. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):530. 1950. 388 C765
- 31659 PELLEGRIN, V. Clairette de Die (muscat mousseux). France. Min. de l'Agr. B. Tech. d'Inform. 54:677-684. Nov.1950. 14 F844B  
Wine type.
- 31660 PROCOPIO, M. Interpretation à double fin de la densité des vins doux. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):533. 1950. 388 C765
- 31661 RECTOR, M. The story of spices. Canad. Chem. & Process Indus. 35:114-117,123. Feb.1951. 381 C16  
History and uses.
- 31662 RICASOLI, L. The laws for fine wines. (In Italian.) Terra [Firenze] 61(50):2. Dec.10,1950. 16 T274  
Italy.
- 31663 ROEY, G. VAN. La stabilité colloïdale des bières. Cong. Internatl. des Indus. Agr. Rap. 8(1):315-325. 1950. 388 C765
- 31664 SALVADOR, A. N. Alcohol and the rectification of wine. (In Portuguese.) Frutas da Madeira 10:76. Dec.1950. 286.83 F9422
- 31665 SCHMID, A. Weinfiltration mit kieselgur. Schweiz. Z. f. Obst- u. Weinbau 60:9-11. Jan.13,1951. 80 Sch9
- 31666 SERVIERE, H. Contingement individuel. Prog. Agr. et Vitic. 1951:6-7,38-40. Jan.7/14-21/28,1951. 14 P94  
Wine in France.
- 31667 SIMONDS, P. W. One-fifth gallon of whisky; ATU expert points out that same results are not obtained when whisky is stored in reused cooperage. Wooden Barrel 19(5):8,14,16. Jan.1951. 99.82 W854
- 31668 SRINIVASAN, K. H. Coffee: retrospect and prospect. Indian Coffee Bd. Mon. B. 14:4-10. (To be cont.) Jan.1950. 68.29 In23M  
History.
- 31669 THE story of tea. Ala. Tuskegee Inst. Serv. 15(7):25-27,32-33. (To be cont.) Feb.1951. 280.8 Se62
- 31670 TARANTOLA, C. Methodes propres a deceler l'adulteration des vins par l'addition de jus de pommes, de figues et de caroubes. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):532-533. 1950. 388 C765
- 31671 TESTA, J. Coffee in 1950. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 25:774,776-778. Oct.1950. 68.29 Sa63  
Statistics.
- 31672 TRIEST, F. J. Flavoring materials from domestic crops. Coffee & Tea Indus. 74:63. (To be cont.) Jan.1951. 389.8 Sp4  
Includes condiments.
- 31673 VANDENPUT, R. La préparation du cacao au Mayumbe peut-elle être améliorée? (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):564-565. 1950. 388 C765
- 31674 VEDANI, A. La teneur en alcools supérieurs des vins italiens. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):531. 1950. 388 C765
- 31675 VERHEYDEN, F. Stabilisation, sterilisation et vieillissement des vins. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):533. 1950. 388 C765
- 31676 VIADA, L. E. En la Argentina se produce el café. Chacra 21(242):70-71. Jan.1951. 9 C34  
The industry.
- 31677 VIÑALS, J. M. Rendimientos de la vendimia en mosto y vino. I. Câm. Ofic. Sind. Agr. de Barcelona. B. 5:309-310. Dec.1950. 15 C14
- 31678 WANNER, E. Tankverwendung und kellerbau. Weinbau 5:576. Dec.3,1950. 390.8 W432
- 31679 WARWICK, G. W. B. Brewery in the barley fields. Amer. Brewer 84:34-35,59-60. Jan.1951. 390.8 Am3  
England.



31680 WIAME, J. M., and LAMBION, R. Contribution à l'étude des acetobacters de vinaigrerie du type "rapide." Rev. des Ferment. et des Indus. Aliment. 5: 209-210. Dec.1950. 390.08 R32

31681 WILHARM, G. Über die autolyse der hefe und die damit verbundene geschmacksverschlechterung des bieres. Brauwelt 1951:57-59. Ref. Jan.25,1951. 390.8 B732

31682 ZELOMEK, A. W. Coffee in a "warm war" world. Coffee & Tea Indus. 74:18,46,58,64. Jan.1951. 389.8 Sp4

31683 ZEZZOS, R. Wine in everday Rome. (In Italian.) Roma Econ. 3:627-629. Sept.1950. 280.8 R66

## DAIRY PRODUCTS

31684 AGENDA de l'industrie laitière, 1951, quarante-quatrième année. Lyon, 1950. 160 p. 44.8 Ag3

31685 BEAU, M. Le lait et l'industrie laitière. Paris, Presses Universitaires de France, 1949. 126 p. ("Que Sais-je?") Le Point des Connaissances Actuelles, No.377) 44 B38La

31686 BNK, H. Buttermilch im bauernbrauchtum, reim, in sage und geschichte. MolK.-Ztg. 4:1362. Nov.16,1950. 44.8 M735

31687 BINNEY, T. H. Thirty-sixth annual report of the Creamery License Division. Ind. Agr. Expt. Sta. C. 364,15 p. Oct.1950. 100 In2P

31688 BIRD, J. Does butter have a future? Country Gent. 121(2):21,64-67. Feb.1951. 6 C833

31689 BRADFIELD, A. What is new at the dairy show? Vt. U. & State Agr. Col. Dept. Anim. & Dairy Husb. Papers Presented Conf. Dairy Plant Oper. & Milk Distrib. 29:31-35. 1950. 44.9 V593

31690 BRAIDOT, S. Glance at the dairy and cheese situation in Udine. (In Italian.) Latte 24:427-428. Dec. 1950. 44.8 L35

31691 BRUNINI, J. While other industries get rich-- (In Portuguese.) Seleç. Agr. 5(56):37-38. Dec.1950. 9.2 Se4

Brazilian dairy industry.

31692 DISTRICT OF COLUMBIA. COURT OF APPEALS. United States Court of Appeals for the District of Columbia. No. 10365. Charles F. Brannan, Secretary of Agriculture, appellant, v. Delbert O. Stark, A. F. Stratton, A. R. Denton, G. Stebbins, F. Walsh, appellees. No. 10366. Dairymen's League Cooperative Association, Inc., appellant, v. Delbert O. Stark, A. F. Stratton, A. R. Denton, G. Stebbins, F. Walsh, appellees. Appeals from the United States District Court for the District of Columbia. Argued March 28, 1950; decided November 9, 1950. Washington, 1950. 18 p. 280.344 D632

31693 DOSSA, G., COSMO, A., and BERNERI, O. G. Production of butter in Venezia. (In Italian.) Latte 24: 415-418. Dec.1950. 44.8 L35

31694 ECK, A. Les laiteries allemandes. Vie Lait. 6(122):1-2. Dec.25,1950. 44.8 V67

31695 EICHLÖFF, K. Milchliqueur, eigelbmilch, schwefelsäurerahm u. a. MolK.-Ztg. 4:1283,1286. Oct. 26,1950. 44.8 M735

Germany.

31696 FREDERIKSEN, L. P. The dairy industry in 1950. (In Danish.) Andelsbladet 52:14-16. Jan.4,1951. 280.28 An2

Denmark.

31697 GENOOTSCHAP TER BEVORDERING VAN MELKKUNDE. Conference held in Utrecht, April 29, 1950. (In Dutch.) Nederlands Melk- en Zuivelijdschr. 4:296-327. Ref. Oct./Dec.1950. 44.8 N283

31698 GRINDAKER, A. On investment in the creamery industry. (In Norwegian.) Meieriposten 39:865-870. (To be cont.) Dec.9,1950. 44.8 M47

31699 HAYWARD, A. Dairying conditions overseas. New Zeal. Dairy Exporter 26(5):6-7,68-69. Nov.1,1950. 44.8 N484

Europe.

31700 HEIDEBRECHT, W. Was weiss der verbraucher von milch und milcherzeugnissen? Süddeut. MolK.-Ztg. 71:1778-1779. Dec.22,1950. 44.8 Su2

31701 HENDERSON, H. B. High quality milk requires rigid standards for production, processing, and distribution. Cong. Internat. des Indus. Agr. Rap. 8(1):387-390. 1950. 388 C765

31702 HERZ, H. Kurzer blick in das milchversorgungsproblem Indiens. Schweiz. Zentbl. f. Milchwirt. 39: 300-301. (To be cont.) Dec.22,1950. 44.8 Sch93

31703 HOLMAN, C. W. Activities of the National Milk Producers Federation; being a review of the 1950. dairy problems and current developments-a report. Natl. Milk Prod. Fed. Educ. Ser. 40,38 p. 1950. 281.3449 N21

31704 HOOD, H. P. Excerpts from testimony before Committee on Agriculture, Massachusetts General Court, Boston, Massachusetts, April 26, 1950. n.p.,1950. 47 p. 284.344 H76

Dairy industry.

31705 INDIA. IMPERIAL DAIRY DEPT. Annual report for the year ending June 1944. Delhi,1950. 28 p. 44.9 Im7

31706 INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS. Directory of associate members, 1950-1951. n.p.,1950. 58 p. 225 In893

31707 INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS. 50 years of progress. Washington,1950. 24 p. 389 In83F

31708 KELLER, H. Milchwirtschaftliches rechnen. MolK.-Ztg. 4:1306-1307,1356-1357,1444-1445,1500-1501. (Cont.) Nov.2-16,Dec.21,1950. 44.8 M735

31709 KLUGER, J. Let's talk accounting. Amer. Milk Rev. 13(2):36,38. Feb.1951. 44.8 Am38

31710 LACOURCIERE, H. L'Ecole de Laiterie de St-Hyacinthe. Québec Lait. 9(12):26,31-32. Dec.1950. 44.8 Q3

31711 LEHMANN, F. Ein querschnitt durch die niedersächsische milchwirtschaft. Süddeut. MolK.-Ztg. 71:1647-1649. Nov.24,1950. 44.8 Su2

31712 LEROY, A. Production laitière en Italie. Agriculture [Paris] 14:337-341. Dec.1950. 14 Ag823

31713 MCCALLUM, H. A. What is the future for dairying? Switch from butter to milk products. Land [Sydney] (Farm & Sta. Annu.)2043:72,74,83. Oct.11,1950. 23 L22

In Australia.

31714 MAYER-DIETFURT, H. Gedanken zur jahreswende. Süddeut. MolK.-Ztg. 71:1772-1773. Dec.22, 1950. 44.8 Su2

31715 MERISH, F. For sound business management in a wartime economy, watch your fixed expense. Milk Plant Mon. 40:34-36. Jan.1951. 44.8 C864

31716 MERKT. Das ende der SMT [Süddeutsche Markenbutter-Tonnen-Gesellschaft]. Süddeut. MolK.-Ztg. 71:1491-1492. Oct.20,1950. 44.8 Su2

31717 MUSSER, K. B. A breeze is coming. Guernsey Breeders' J. [Peterborough] 81:312. Feb.7,1951. 43.8 G93

Outlook for dairy industry.

31718 NATIONAL MILK PRODUCERS FEDERATION. A dairy policy, 1951; being the resolutions passed by the Thirty-fourth Annual Convention in Minneapolis, Minn., November 13, 14, 15, 16, 1950. Natl. Milk Prod. Fed. Educ. Ser. 41,23 p. 1950. 281.3449 N21

31719 NORSK meierikalender [Norwegian dairy calendar], 12, 1951. Oslo,Norske Meierifolks Landsforening,1950? 211 p. 44.9 N814

31720 PLATENBURG, T. J. Milk and milk utilization. (In Dutch.) Voeding 11:486-489. Dec.15,1950. 389.8 V85

Netherlands.

31721 REMON, M. Le fonctionnement de la laitérie du Katanga. (Sum.) Cong. Internat. des Indus. Agr. Rap. 8(1):574-575. 1950. 388 C765

31722 RICHARDS, P. Dairying and the defense effort. (Excerpts.) Certif. Milk 26:12-14. Jan.1951. 44.8 C33

31723 RYMAR', D. Departmental [construction] projects of dairy enterprises. (In Russian.) Moloch. Promysh. 11(8):7-11. Aug.1950. 44.8 M734

31724 SECONDI, P. Production of milk in Italy and the market for cheese and dairy products. (In Italian.) Latte 24:425-426. Dec.1950. 44.8 L35

31725 SERVICE PROVISORE DE L'ECONOMIE LAITIÈRE. Rapport sur l'exercice 1950. SPEL; B. Int. d'Inform. et de Doc. Spec. No., p.5-37. Dec.1950. 44.8 Sp1

France.

31726 SILBERMANN, H. Der milchberater im dienst der land- und molkerewirtschaft. Süddeut. MolK.-Ztg. 71:1583-1584. Nov.10,1950. 44.8 Su2

31727 SOLLBERGER, W. Theorie und praxis im produktionsprogramm der milchwirtschaft. Schweiz. Zentbl. f. Milchwirt. 39:279-280. Dec.1,1950. 44.8 Sch93



- 31729 STARK, L. Frankenfahrt ins land des Franken; eindrücke von einer besichtigungsreise in die Schweiz. Süddeut. Molk.-Ztg. 71:1649-1651. Nov.24,1950. 44.8 Su2
- 31729 STARK, L. Fränkische milchwirtschaft und Milchwirtschaftlicher Verein Franken e. V. Süddeut. Molk.-Ztg. 71:1376-1377. Sept.29,1950. 44.8 Su2
- 31730 THOMSEN, H. Acidophilus-milch (reform-joghurt). Molk.-Ztg. 4:1323-1324. Nov.9,1950. 44.8 M735
- 31731 THOMSEN, H. Joghurt. Molk.-Ztg. 4:1278-1279. (Cont.) Oct.26,1950. 44.8 M735
- 31732 THOMSEN, H. Kefir, das moussierende sauer-milchgetränk. Molk.-Ztg. 4:1379-1381. Ref. Nov.23, 1950. 44.8 M735
- 31733 TÜRINKOV, S. Competition for high quality of production. (In Russian.) Moloch. Promysh. 11(8):5-6. Aug.1950. 44.8 M734  
Kostroma milk plant.
- 31734 TURNBULL, J. S. Canada needs a dairy policy. 2. Canad. Dairy & Ice Cream J. 30:40,42,44,74. Jan. 1951. 44.8 C162
- 31735 VEALE, M. Eire's traveling creameries. Hoard's Dairyman 96:71. Jan.25,1951. 44.8 H65
- 31736 VERMEULEN, W. Grosszügige zusammenarbeit; molkereien und milchhandel werden gemeinsam. Deut. Milchhandels-Ztg. 73:2-3. Jan.5,1951. 44.8 D48
- 31737 VERMONT UNIVERSITY AND STATE AGRICULTURAL COLLEGE. Papers presented at the twentieth conference for dairy plant operators and milk distributors, Burlington, Vermont, October 25 and 26, 1950. Burlington,1950. 77 p. 44.9 V593
- 31739 WEGEMANN, W. Die behandlung der rohstoffkosten in der selbstkostenrechnung einer molkerei. Süddeut. Molk.-Ztg. 71:inside front cover. Dec.8,1950. 44.8 Su2
- 31739 WEGENER, K. A. Milchwirtschaft heute und morgen. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A: 1762-1763. Dec.21,1950. 18 L2346
- 31740 WILSON, A. M. The truth about yogurt. Today's Health 29:31,61-63. Jan.1951. 44.9 H992
- 31741 YSTGAARD, O. M. The American dairy industry. (In Norwegian.) Meieriposten 39:903-916,925-941. Dec.23-30,1950. 44.8 M47
- Analysis and Composition**
- 31742 ANDERSON, G., and WECKEL, K. G. The effect of heat treatment and homogenization on the curd tension of low fat milk. Milk Plant Mon. 40:37-38. Jan.1951. 44.8 C864
- 31743 BEAU, M. Etudes rhéologiques sur le beurre. Lait 30:593-608. Nov./Dec.1950. 44.8 L143
- 31744 BEJAMBES, M., VEISSEYRE, M. R., and LE GRAND, M. Les crus de beurre français. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):546. 1950. 388 C765  
Differences in butter according to producing regions.
- 31745 BLOCK, R. J. Some amino acids, peptides and amines in milk, concentrated milks and cheese. J. Dairy Sci. 34:1-10. Ref. Jan.1951. 44.8 J822
- 31746 CAMUS, A., BURDIN, J., and LE GUEN, A. Le dosage de la matière grasse des crèmes par la détermination du taux d'humidité. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):549-550. 1950. 388 C765
- 31747 CHAND, R., and AHMAD, H. Effect of heat on some constants of ghee (butter-fat). Indian J. Med. Res. 38:235-239. July 1950. 44.8 In22
- 31748 CHELQUIST, G. Butterfat testing. Dairymen's Price Rptr. 33:3-5. Jan.1951. 280.28 D14
- 31749 D'ACHENKO, P., KORNILOVA, O., and VLODAVETS, I. Refractometric method of determining the fat content in dairy products. (In Russian.) Moloch. Promysh. 11(8):24-26. Aug.1950. 44.8 M734
- 31750 DICKS, M. W., EATON, H. D., and CARPENTER, C. A. The effect of interruption of milking on the protein fractions of milk. J. Dairy Sci. 34:52-57. Ref. Jan.1951. 44.8 J822
- 31751 FEDERICO, L., MONZINI, A., and ARTOM, A. Influence des fermentations destructrices et des fermentations oxydantes sur la stabilité de la vitamine B<sub>2</sub>. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):484. 1950. 388 C765  
In cheese.
- 31752 GABEL, W. Kritische betrachtungen zur 1. spelseits-leistungsprüfung der DLG. Süddeut. Molk.-Ztg. 71(40):inside front cover. Oct.6,1950. 44.8 Su2  
Tests.
- 31753 GENDEREN, H. VAN. Pyrogenic substances in milk and milk powder. (In Dutch.) Nederlands Melken Zuiveltijdschr. 4:299-308. Ref. Oct./Dec.1950. 44.8 N283  
Includes discussion.
- 31754 GRELIN, J. Jeder landwirt kann einwandfreie milch abliefern. Unser Milchvieh. Ausg. A 2(11):1-2. In Molk.-Ztg. 4(44). Nov.2,1950. 44.8 M735  
Sediment test.
- 31755 GOBIS, L., and PISEK, A. La teneur en glycol-butylénique (Gb), acetyl-methylcarbinol (Amc) et diacétyle (Di) du lait et de ses dérivés. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):550. 1950. 388 C765
- 31756 GRANVILLE, and DESMET, F. Détermination de la teneur en matières grasses des fromages au moyen du butyromètre Gerber. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):549. 1950. 388 C765
- 31757 HANEBUTH. Fettgehaltsunterschiede-milch-geldunterschiede; im einzugsgebiet einer molkerei schwanken die milchpreise zwischen 18,5 und 26 pf. Unser Milchvieh. Ausg. A 2(11):2-3. In Molk.-Ztg. 4(44). Nov.2,1950. 44.8 M735  
Germany.
- 31758 HANKE, E. Milchwirtschaftlicher laboratoriumsdiens. Molk.-Ztg. 4:1356-1357. (Cont.) Nov.16, 1950. 44.8 M735  
Germany.
- 31759 HANNAY, C. L., and NEWLAND, L. G. Haemolytic streptococci in cheese. J. Dairy Res. 17:206-208. June 1950. 44.8 J823
- 31760 HERDER, P. C. DEN. Systeme de recherches pour deceler la falsification du beurre par la margarine. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):546. 1950. 388 C765
- 31761 HISCOX, E. R. Two samples of 7-year-old Cheddar cheese. J. Dairy Res. 17:336-337. Oct.1950. 44.8 J823
- 31762 HORST, M. G. TER. The ultracentrifugation of calcium caseinate sols. Nederlands Melk- en Zuiveltijdschr. 4:246-260. Oct./Dec.1950. 44.8 N283  
In milk.
- 31763 KORN, G. Kontroll-laboratorium sichert die betriebshygiene. Molk.-Ztg. 4:1382-1383. Nov.23,1950. 44.8 M735  
Germany.
- 31764 LARSEN, P. B., and GOULD, I. A. A comparative study of three methods of determining the heat destruction of lactose in milk with special reference to the picric acid colorimetric procedure. J. Dairy Sci. 34:16-20. Ref. Jan.1951. 44.8 J822
- 31765 LIND, C. Examen bactériologique du fromage pour servir de guide dans les essais de fromage et expliquer l'origine des alterations du fromage. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):546. 1950. 388 C765
- 31766 LONCIN, M., and JACQUAIN, D. Contribution à l'étude de la lipase du lait. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):545. 1950. 388 C765
- 31767 LONCIN, M., and GEAIRAIN, J. Virulence du Mycobacterium tuberculosis dans le fromage blanc. Lait 30:608-612. Ref. Nov./Dec.1950. 44.8 L143
- 31768 MACK, M. Zur frage der fettgehaltsschwankungen in der milch. Württemb. Wchnbl. f. Landwirt. 117: 1109-1110. Dec.9,1950. 18 W96
- 31769 M'KENZIE, D. A. Bacteriological testing of designated milk. Scot. Agr. 30:130-134. Ref. Winter 1950/51. 10 Sco825o
- 31770 MENGEBIER, H. Untersuchung und beurteilung von quark. Molk.-Ztg. 4:1391-1392. (To be cont.) Nov.23,1950. 44.8 M735
- 31771 MINUT, J. La acidez de la leche y el pH del queso. Indus. Lech. 32:507,509-510. Oct.1950. 44.8 In26
- 31772 MOIR, G. M., and THOMSON, G. I. Device for preparing roll-tube cultures. J. Dairy Res. 17:192-193. June:1950. 44.8 J823  
For taking bacterial counts of milk.
- 31773 MORRIS, C. S., and EDWARDS, M. A. Further investigations on the presence in raw milk of a bactericidal substance specific for certain strains of coliform organisms. J. Dairy Res. 17:253-260. Oct.1950. 44.8 J823
- 31774 MULLEN, J. E. C. The acid phosphatase of cows' milk. J. Dairy Res. 17:288-305. Ref. Oct.1950. 44.8 J823



- 31775 MÜLLER, L. Die milch als kostbare, aber nicht kostspielige eiweißquelle. Süddeut. Mol.-Ztg. 71(50):inside front cover. Dec.15,1950. 44.8 Su2
- 31776 OTANI, Y. On the chemical constituents of cultured buttermilk powder. (In Japanese.) Tottori Soc. Agr. Sci. Trans. 9:5-6. Dec.1949. 513 T64
- 31777 PETERSEN. Penicillin, bakteriofagen und rahmsäuerungs-schwierigkeiten. Mol.-Ztg. 4:1431-1432. Dec.7,1950. 44.8 M735
- 31778 PYNE, G. T., and RYAN, J. J. The colloidal phosphate of milk. I. Composition and titrimetric estimation. J. Dairy Res. 17:200-205. Ref. June 1950. 44.8 J823
- 31779 ROEDER, G. Studien über die saure- und salzverhältnisse in milch und molke. Milchwissenschaft 5:426-428. (Cont.) Dec.1950. 44.8 M5933
- 31780 ROWLANDS, A., and others. Keeping quality and raw-milk grading. I. Dye tests as measures of the keeping quality of milk. J. Dairy Res. 17:159-191. June 1950. 44.8 J823
- H. Barkworth, Z. Hosking, and O. Kempthorne, joint authors.
- 31781 SCHOPPMAYER. Entstehung von stockflecken auf der butter oder margarine. Süddeut. Mol.-Ztg. 71:1776-1777. Dec.22,1950. 44.8 Su2
- 31782 SCHWARZ, G., and THOMASOW, J. Über aromastoffe des Tilsiter käses. II. Milchwissenschaft 5:412-416. Ref. Dec.1950. 44.8 M5933
- English summary.
- 31783 SHIELDS, M. Those mysterious minerals. Certif. Milk 26:8-10. Jan.1951. 44.8 C33
- In dairy products.
- 31784 SHIPE, W. F., JR. A study of the relative specificity of lipases produced by *Penicillium roqueforti* and *Aspergillus niger*. Arch. Biochem. 30:165-179. Ref. Jan.1951. 381 Ar2
- 31785 SIDDIQI, R. H., and QURASHI, A. A. Goat and its ghee. Co-op. & Mktg. Rev. 4:301-306. Ref. Oct. 1950. 280.28 C78243
- Chiefly on the composition of ghee.
- 31786 SPOTTS, E. K., and DOWDLE, R. L. The determination of extraneous matter in non-fat dry milk solids. Cereal Chem 28:79-80. Jan.1951. 59.8 C33
- 31787 STERNBERG, J., COLAS, J., and KAHN, T. Halbmikrobestimmung einiger milchbestandteile durch chromatographische trennung. (Sum.) Angew. Chem. (Ausg. A) 62:580. Dec.21,1950. 384 Z33
- 31788 TALCE, D., and FOLDA, W. Entstehung von stockflecken auf der butter oder margarine. Süddeut. Mol.-Ztg. 71:1611-1613. Nov.17,1950. 44.8 Su2
- 31789 THOMPSON, B. Y., and KON, S. K. Quelques applications de la chromatographie dans les travaux de l'Institut National de Recherches Laitieres. (Sum.) Cong. Internatl. des Indus. Agr. 8(1):483. 1950. 388 C765
- 31790 THOMSON, G. I. Coliform bacteria in New Zealand butter. J. Dairy Res. 17:72-78. Ref. Feb.1950. 44.8 J823
- 31791 THOMSON, G. I. *Pseudomonas putrefaciens* in New Zealand butter. J. Dairy Res. 17:66-71. Ref. Feb.1950. 44.8 J823
- 31792 TRAMER, J., and WIGHT, J. The phosphatase test of Aschaffenburg and Mullen. J. Dairy Res. 17:194-199. June 1950. 44.8 J823
- Milk.
- 31793 TRENDTEL. Hygienisch einwandfreie molkereimilch. Mol.-Ztg. 4:1353-1354. Nov.16,1950. 44.8 M735
- 31794 WAESER, B. Chemische verfahren der molkenverwertung. Mol.-Ztg. 4:1427-1428. Ref. Dec.7, 1950. 44.8 M735
- 31795 WILSON, C. D., and SLAVIN, G. A direct culture method for the examination of milk samples. J. Compar. Path. & Ther. 60:230-234. July 1950. 41.8 J82
- 31796 WILSENS, A., and VLEESCHAUWER, A. DE. Recherches relatives aux bactéries coliformes dans le lait pasteurisé. (Sum.) Cong. Internatl. des Indus. Agr. 8(1):545. 1950. 388 C765
- 31799 GUNDLACH, G. P., and ESMOND, C. W. We do control two of the three horses. Milk Dealer 40(4):95-97. Jan.1951. 44.8 M595
- Milk consumption and marketing.
- 31799 HULPHERS, G. Use of skim milk powder in specialty meats. (In Swedish.) Mjölpropagandan 27:289 290. Nov.1950. 44.8 M692
- 31800 MORGAN, J. N. Consumer substitutions between butter and margarine. Econometrica 19:18-39. Ref. Jan.1951. 280.8 Ec78
- Consumer reaction to shifts in prices.
- 31801 PHIPARD, E. F. Consumer practices in the use of milk. Amer. J. Pub. Health 41:45-48. Jan.1951. 449.9 Am3J
- Distribution, Marketing, and Transportation**
- 31802 ALMEIDA, O. DE. The dairy cooperative problem. (In Portuguese.) Divulg. Coop. 13:7-8,10-11. Nov.1950. 280.28 R47
- Brazil.
- 31803 AMERICAN DRY MILK INSTITUTE. Census of dry milk distribution, 1949. Chicago,1950. 23 p. 44.9 Am35C
- 31804 ASZLING, R. A. The public is an elephant. Vt. U. & State Agr. Col. Dept. Anim. & Dairy Husb. Papers Presented Conf. Dairy Plant Oper. & Milk Distrib. 29:36-38. 1950. 44.9 V593
- Public relations in the dairy industry.
- 31805 BRYANT, C. B. A. Florida producers are using tank trucks. Amer. Milk Rev. 13(2):62-65. Feb. 1951. 44.8 Am38
- 31806 CHERRY, G. Selling milk. Milk Indus. 31(7):81-84. Jan.1951. 44.8 M593
- 31807 CONKLIN, E. A. Short radio spots prove value in milk advertising. Amer. Milk Rev. 13(2):46. Feb.1951. 44.8 Am38
- 31808 DAIRYMEN'S CO-OPERATIVE CREAMERY OF BOISE VALLEY. Marking our 25th anniversary, 19: 1950. Caldwell, Idaho, 1950. 11 p. 280.2449 D142M
- 31809 DOLINGA, E. Die trinkmilch-versorgung in Rheinland-Pfalz. Süddeut. Mol.-Ztg. 71:1364-1366. Sept.29,1950. 44.8 Su2
- 31810 FREEMYER, G. W. History and an economic analysis of milk supply problems in the St. Louis marketing area, 1910-1949. Urbana, 1950. 11 p. 44 F875
- 31811 FRENCH, C. E., and WOOD, G. B. Some pla could cut milk receiving labor crew in half. Purdue U. Work Simplification News Let. 21:6. Nov.1950. 281.9 P97
- 31812 HENSLER, K. Der ab-hof-verkauf; eine ernste gefahr für den milcherzeugerpreis. Mol.-Ztg. 1301-1302. Nov.2,1950. 44.8 M735
- Germany.
- 31813 HICKS, J. W., and WOOD, G. B. Retail milk delivery men spend half their time driving and walking. Purdue U. Work Simplification News Let. 21:5-6. Nov. 1950. 281.9 P97
- 31814 HIRSCH, D. E. Dairy co-ops meet the challenge. DPMA News 11(4):3,5. Jan.1951. 280.8 D144
- 31815 HOFBAUER, J. Werbung für die "werbung. Süddeut. Mol.-Ztg. 71:1366-1367. Sept.29,1950. 44.8 Su2
- 31816 INGLIS, J. G. Milk transport in England and Wales. Milk Indus. 31(7):47-54. Jan.1951. 44.8 M593
- 31817 JOHNSON, A. H. Marketing signals in 1951 Calif. Dairyman 31:14-24. Feb.10,1951. 44.8 C12
- 31819 KNUDSEN, A. F. Market conditions in U.S. at the turn of the year. (In Danish.) Dansk Landbr. 7(4. Jan.4,1951. 280.28 V91
- Chiefly on dairy products.
- 31819 KOHR, L. A. About milk and milk dealers. Milk Dealer 40(4):98-100. Jan.1951. 44.8 M595
- 31820 KRIESEL, H. C. Butter and cheese surplus are disappearing. Agr. Situation 35:8. Jan.1951. 1 Ec7Ag
- 31821 MAZZOLENI, G. The trend of the retail market in dairy products. (In Italian.) Mondo del Latte 1 605-606,609-610. Nov.1950. 44.8 M74
- English summary.
- Italy.
- 31822 MROZEK. Der wert der trinkmilch. Deut. Milchhandels Ztg. 72:688-689,705-706,719,734-735. Nov.10-Dec.1,1950. 44.8 D48
- Methods of increasing consumption.
- Consumption and Utilization**
- 31797 ANDERSON, E. O. Should New England excess milk be converted into foreign type cheese. Vt. U. & State Agr. Col. Dept. Anim. & Dairy Husb. Papers Presented Conf. Dairy Plant Oper. & Milk Distrib. 29: 55-64. 1950. 44.9 V593



- 31823 PRITCHARD, N. T. The Indianapolis milk market. Ind. Agr. Expt. Sta. B. 554, 44 p. Aug. 1950. 100 Ln2P
- 31824 PRITCHARD, N. T. Milk hauling costs can be reduced. Hoard's Dairyman 96:135, 149. Feb. 10, 1951. 44.8 H65
- 31825 "SANCOR" FABRICAS DE MANTECA. Memoria y balance del 10º ejercicio, cerrado el 30 de junio de 1950, aprobados en la Asamblea General Ordinaria del 30 de septiembre de 1950. Rev. SanCor 9(97): 14-48. Nov. 1950. 280.28 R322
- 31826 SCHRÄPLER. Milchwerbung durch hauszustellung! Süddeut. Mol.-Ztg. 71:1790-1791. Dec. 22, 1950. 44.8 Su2
- 31827 SIEGHOLD, F. Gibt es noch andere möglichkeiten der molkereiproduktenwerbung? Mol.-Ztg. 4: 1326. Nov. 9, 1950. 44.8 M735  
Germany.
- 31828 SPENCER, L. Impact of marketing agreements and orders on the marketing of milk. J. Farm Econ. 32:992-1005. Nov. 1950. 280.8 J822  
Discussion by J. B. Roberts, p. 1015-1016.
- 31829 STREIF, K. Verkaufskunst—auch im molkerei-laden. Süddeut. Mol.-Ztg. 71(42):inside front cover. Oct. 20, 1950. 44.8 Su2
- 31830 THOMPSON, J. I. What a Federal order would mean here. N. J. Farm & Gard. 22:33, 35. Jan. 1951. 6 G162  
Milk marketing order for New Jersey.
- 31831 TYRER, T. G. The Far North again gives a lead; tanker-truck collection for skim-milk at farm gate is latest addition to Kaitala company's supplier-service. New Zeal. Dairy Exporter 26(5):8-9, 11, 13, 15, 59. Nov. 1, 1950. 44.8 N484
- 31832 WEISS, F. Das Milch- und Fettgesetz. Württemb. Wchnbl. f. Landwirt. 118:42-44. Jan. 20, 1951. 18 W96  
Marketing legislation.
- Grading, Inspection, Standardization, and Quality
- 31833 ALLAN, J. E. The oxidation of ascorbic acid in dairy products. J. Dairy Res. 17:54-65. Ref. Feb. 1950. 44.8 J823
- 31834 ASHTON, T. R. Some bacteriological aspects of the deterioration of pasteurized milk. J. Dairy Res. 17:261-287. Ref. Oct. 1950. 44.8 J823
- 31835 BARNICOAT, C. R. Cheese discoloration: oxidation of bixin in annatto-coloured cheeses promoted by sulphhydryl compounds. J. Dairy Res. 17:209-213. June 1950. 44.8 J823
- 31836 BECK, G. Die fränkische milchwirtschaft im wettstreit um gute milch. Süddeut. Mol.-Ztg. 71: 1377-1378. Sept. 29, 1950. 44.8 Su2
- 31837 BERTHOLD, A. Das vormelkkontrollgefäß gehört zum melker. Blatt für den Melker, p. 3. In Unser Milchvieh. Ausg. B/C 2(11). Nov. 1950. 43.8 Un72
- 31838 CARBONE, E. Influence de l'alimentation à base de fourrages ensilés sur le fromage "Fontina." (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):547. 1950. 388 C765
- 31839 CLAYDON, T. J., and FOLTZ, V. D. A yeast-like defect caused by an Aerobacter species in cream. J. Dairy Sci. 34:11-15. Jan. 1951. 44.8 J822
- 31840 DANNHOFER, O. Rund um den schlagrahm. Süddeut. Mol.-Ztg. 71:1423-1424. Oct. 6, 1950. 44.8 Su2  
Regulation.
- 31841 GALESLOOT, T. E. An early gas defect in cheese caused by Betacoccus (Leuconostoc) species. Nederlands Melk- en Zuiveltijdschr. 4:274-287. Ref. Oct./Dec. 1950. 44.8 N283
- 31842 HARPER, R., and BARON, M. Studies of the nature of subjective judgements in cheese-grading. J. Dairy Res. 17:329-335. Oct. 1950. 44.8 J823
- 31843 LACKNER, C. E. New Ontario regulations under the Dairy Products Act. Canad. Dairy & Ice Cream J. 30:33-35, 52. Jan. 1951. 44.8 C162
- 31844 LAUPRECHT, E. Beitrag zur frage der bei der 28tägigen milchkontrolle auftretenden schwankungen der jahresabschlüsse. Z. f. Tierzücht. u. Züchtbiol. 58:511-520. July 1950. 44.8 Z35  
Germany.
- 31845 LOTZ. Untersuchungen über die milchqualität im bauernhof. Mol.-Ztg. 4:1455-1456. Dec. 14, 1950. 44.8 M735  
Germany.
- 31846 MAYER-DIETFURT, H. Wo stehen wir heute in der güteförderung? Süddeut. Mol.-Ztg. 71(41):inside front cover. Oct. 13, 1950. 44.8 Su2  
Quality in dairy products.
- 31847 NEWLANDER, J. A., WHITE, J. C., and DODGE, W. A. Milk flavors: panel discussion. Vt. U. & State Agr. Col. Dept. Anim. & Dairy Husb. Papers Presented Conf. Dairy Plant Oper. & Milk Distrib. 29:70-77. 1950. 44.9 V593
- 31848 NEWLANDER, J. A. What causes off-flavors in milk? Hoard's Dairyman 96:114. Feb. 10, 1951. 44.8 H65
- 31849 ROEDER, G. Klarheit der begriffsbestimmungen! Süddeut. Mol.-Ztg. 71:1488-1491. Ref. Oct. 20, 1950. 44.8 Su2  
Defining of types of milk.
- 31850 SCHOMP, C. D. How State [New Jersey] milk control has worked so far. N. J. Farm & Gard. 22:32, 34. Jan. 1951. 6 G162
- 31851 SCHULZ, G. Wiederbeginn der bezirksprüfungen für butter und käse in Niedersachsen. Süddeut. Mol.-Ztg. 71:1713. Dec. 8, 1950. 44.8 Su2
- 31852 SEELEMANN, M. Milchqualität, milchkonsum und milchwerbung. Unser Milchvieh. Ausg. A 2(12):3-4. In Mol.-Ztg. 4(48). Nov. 30, 1950. 44.8 M735
- 31853 SMITH, J. Reviews of the progress of dairy science. Section F. Milk-borne diseases. J. Dairy Res. 17:91-105. Ref. Feb. 1950. 44.8 J823
- 31854 SPEINLE, X. Qualität, preis und lohn. Allgauer Bauernbl. 18:751-752. Dec. 21, 1950. 18 AL53  
Milk.
- 31855 U. S. PRODUCTION AND MARKETING ADMIN. Scorching particle standards for dried milks developed, by D. R. Strobel and C. J. Babcock. Washington, 1950. 6 p. 1.956 D14Sco7
- 31856 WELZ, O. Dollars für milch und milcherzeugnisse. Süddeut. Mol.-Ztg. 71:1614-1615. Nov. 17, 1950. 44.8 Su2  
Includes standards of quality.
- Packing and Packaging
- 31857 CHAPPLE, L. 38mm. bottle standard container in Britain. (Extr.) Canad. Dairy & Ice Cream J. 30:62, 64. Jan. 1951. 44.8 C162  
For milk.
- 31858 ISON, J. 56mm. square motivated by need to save space. (Excerpts.) Canad. Dairy & Ice Cream J. 30:68. Jan. 1951. 44.8 C162  
Milk bottles.
- 31859 LAPIN, V., and PRIKLONSKI, V. Method of tightening the cap of [milk] bottles. (In Russian.) Moloch. Promysh. 11(8):21. Aug. 1950. 44.8 M734
- 31860 STEELE, A. 45 per cent of wholesale fluid volume in U. S. is in paper containers. (Excerpts.) Canad. Dairy & Ice Cream J. 30:70, 72. Jan. 1951. 44.8 C162
- 31861 STOFFELS, C. What's the latest in packaged cheese? Food Retailing 143(9):8-9. Jan. 1951. 286.85 B974
- 31862 UMBRECHT, J. Zur frage der papiermilchflasche. Süddeut. Mol.-Ztg. 71:1739-1740. Dec. 15, 1950. 44.8 Su2
- 31863 WEBER, A. R. 48mm. square bottle found satisfactory in Windsor, Ont. Canad. Dairy & Ice Cream J. 30:66, 68. Jan. 1951. 44.8 C162
- Prices, Price Control, and Rationing
- 31864 CONLEY, A. R., and MCBRIDE, C. G. How price plans affect seasonality of milk deliveries from farms. Ohio. Agr. Expt. Sta. Res. B. 700, 35 p. Jan. 1951. 100 Oh3S
- 31865 HANEUTH. Fettgehaltsunterschiede—milch-geldunterschiede. Unser Milchvieh. Ausg. B/C 2(11):2-3. Nov. 1950. 43.8 Un72
- 31866 HEIDL, E. Preisverstöße des allgauer käse-grosshandels? Süddeut. Mol.-Ztg. 71:1579-1581. Nov. 10, 1950. 44.8 Su2
- 31867 HENSLE, K. Der butterpfennig. Mol.-Ztg. 4:1273-1274. Oct. 26, 1950. 44.8 M735  
Germany.
- 31868 JANSE, L. C. Methods of payment for milk. Nederlands Melk- en Zuiveltijdschr. 4:239-245. Oct./Dec. 1950. 44.8 N283



31869 KEUNE. Wie steht es um die qualitätsbezahlung der milch? *Molk.-Ztg.* 4:1453-1454. Dec.14,1950. 44.8 M735

Germany.  
31870 KÖRBER, and HOFER. Starrer oder gleitender milchpreis? *Kärntner Bauer* 100:412-415. Nov.15,1950. 19 K14

31871 MARZI, DE, SALERNO, and BONTEMPO. The alimentary milk supply in each Province of the Republic. (In Italian.) *Mondo del Latte* 1950:585-589. Nov.1950. 44.8 M74

English summary.  
Prices and consumption in Italy.

31872 MÜNZBERG, H. Die leistungsprüfungen der DLG, 1951. *Molk.-Ztg.* 4:1349-1350. Nov.16,1950. 44.8 M735

Dairy products prices.

31873 MÜNZBERG, H. Planungen für den nächsten preisbewerb der DLG. *Süddeut. Molk.-Ztg.* 71(46):inside front cover. Nov.17,1950. 44.8 Su2

Dairy products.

31874 STUURMAN, S. Pricing of milk according to sanitary quality. (In Dutch.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):391-400. 1950. 388 C765

Summary in French.  
31875 THOMA, F. Der milchpreis. *Österr. Bauernbündler* 7(2):1. Jan.13,1951. 19 O57

#### Processing and Storage

31876 ANATOVSKIY, A. Method for carbonated milk production. (In Russian.) *Moloch. Promysh.* 11(8):37-38. Aug.1950. 44.8 M734

Fermented with *Bacterium acidophilum*.

31877 ARCHAMBAULT, J. Le contrôle chimique et bactériologique du lait. *Québec Lait.* 9(12):18-21. Dec. 1950. 44.8 Q3

31878 BAL, A. L'eau employée en laiterie. *Cour. Agr.* 15(25):1,3;(26):3. Dec.6,20,1950. 24 C83

31879 BARNUM, G. F. Dairy industry requirements demand precision control. *Canad. Food Indus.* 22(2):21, 23-24. Feb.1951. 286.83 C166

31880 BARROWS, G. E. Treating water for washing dairy equipment. *Vt. U. & State Agr. Col. Dept. Anim. & Dairy Husb. Papers Presented Conf. Dairy Plant Oper. & Milk Distrib.* 29:24-30. 1950. 44.9 V593

31881 BEHLMER, H. L. Proper maintenance is sound business. *Amer. Milk Rev.* 13(2):14,16,56,58. Feb.1951. 44.8 Am38

Homogenizers.  
31882 BONNET, J. Le traitement des crèmes. *Cong. Internatl. des Indus. Agr. Rap.* 8(1):381-385. 1950. 388 C765

31883 BOURBONNAIS, G. La pasteurisation du lait. *Québec Lait.* 9(12):22-23. Dec.1950. 44.8 Q3

31884 BRANDÃO, A. A. Sanitation of milk for public consumption in our Capital (São Paulo) and in the interior of the State. (In Portuguese.) *Rev. dos Criadores* 21(10):15-16. Oct.1950. 43.8 R32

31885 BREMER, H. E. The 3-A sanitary standards for dairy equipment. *Vt. U. & State Agr. Col. Dept. Anim. & Dairy Husb. Papers Presented Conf. Dairy Plant Oper. & Milk Distrib.* 29:17-22. 1950. 44.9 V593

31886 CARPENTER, J. Modern wholesale ice cream manufacture. *Biscuit Maker & Plant Baker* 1:352-356. Dec.1950. 389.8 B54

31887 CONNELLY, R. G. What are the experiment stations telling dairymen? *Va. Dairymen* 14(11):1-3. Dec.1950/Jan.1951. 44.8 V81

31888 DIBBERN, H. Kontrolle von konsummilch und frischkäse. *Molk.-Ztg.* 4:1481-1483. Dec.21,1950. 44.8 M735

High temperature treatment.

31889 DOUBEK, B. Making use of the notions of the modern agrobiolgy in dairy work. (In Czech.) *Ceskoslov. Akad. Zeměděl. Věst.* 24:478-479. Nov.1950. 19.5 C332

31890 FAHMI, A. H., and SHARARA, H. A. Studies on Egyptian Domlatti cheese. *J. Dairy Res.* 17:312-328. Ref. Oct.1950. 44.8 J823

31891 FISCHBECK, K. Speiseeis vom gesichtspunkt des verbrauchers aus gesehen. *Süddeut. Molk.-Ztg.* 71:1582-1583. Ref. Nov.10,1950. 44.8 Su2

Manufacture.  
31892 FISCHER, L. Die viel gelästerte milch. *Süddeut. Molk.-Ztg.* 71:1370-1371. Sept.29,1950. 44.8 Su2

Pasteurization and fortification.

31893 FRIEDEL, G. Die infektionsfrage im käseerbetrieb. *Süddeut. Molk.-Ztg.* 71:1644-1646. Nov.24,1950. 44.8 Su2

31894 GADDA, G. Cómo mejorar bacteriológicamente la leche del tambo. *Res* 18:25537-25538. Dec.5, 1950. 286.85 R31

31895 GARATTONI, E. Sanitation in milk production. (In Italian.) *Spezia Agr.* 5(11):2. Nov.1,1950. 16 Sp3

31896 GEMMILL, A. V. Dairy research gets big boost. *Food Indus.* 23:61-64. Jan.1951. 389.8 F737

31897 GILLESPIE, D. Homo operating tips. *Amer. Milk Rev.* 13(2):20,22,26,69-70. Feb.1951. 44.8 Am38

31898 GMELIN. Jeder landwirt kann einwandfreie milch abliefern. *Unser Milchvieh. Ausg. B/C* 2(11):1-2. Nov.1950. 43.8 Un72

31899 GOETCHIUS, G. R. Dairy detergent sanitizers. *Vt. U. & State Agr. Col. Dept. Anim. & Dairy Husb. Papers Presented Conf. Dairy Plant Oper. & Milk Distrib.* 29:39-45. 1950. 44.9 V593

31900 GUÍGO, E., and GULIAEVA, A. Sublimation drying of casein. (In Russian.) *Moloch. Promysh.* 11(8):33-36. Aug.1950. 44.8 M734

31901 HENDRICKX, H., and VLEESCHAUWER, A. DE. Recherches sur la fabrication du fromage fondu. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):548. 1950. 388 C765

31902 HEYDT, G. Ferstäubungstrocknung ist die beste milchkonservierung? *Molk.-Ztg.* 4:1325. Nov.9, 1950. 44.8 M735

31903 HOLZHEU, H. Steinbuscher käse: herstellung, kellerbehandlung und qualitätsmerkmale im ausgereiften zustand. *Molk.-Ztg.* 4:1327-1328. Nov.9,1950. 44.8 M735

31904 HOOD, E. G. Research improves butter quality. *Canad. Dairy & Ice Cream J.* 30:54,56,58,60,74. Jan.1951. 44.8 C162

31905 HÜCKSTÄDT, J. Die verwendung von stärke-zuckerarten für speiseeis. *Süddeut. Molk.-Ztg.* 71:1787. Dec.22,1950. 44.8 Su2

31906 HULPHERS, G. Milk sanitation in the past. (In Swedish.) *Mjölpropagandan* 27:198-199. Aug.1950. 44.8 M692

31907 HUNTER, G. J. E. The growth requirements of lactobacilli in relation to cheese flavour development. *J. Dairy Res.* 17:79-90. Ref. Feb.1950. 44.8 J823

31908 JACKSON, J. R. Sanitation control in ice cream manufacture. (Excerpts.) *Canad. Dairy & Ice Cream J.* 30:36,38,72. Jan.1951. 44.8 C162

31909 KIEFERLE, F. Die färbung der butter über die milchküh. *Süddeut. Molk.-Ztg.* 71:1678-1679. Dec.1, 1950. 44.8 Su2

Artificial coloring of butter and color obtained through feeding the cattle.

31910 KOSIKOWSKY, F. V. How to convert an ice cream freezer into a small process cheese cooker. *Butter, Cheese & Milk Prod. J.* 42(2):30-31. Feb.1951. 286.85 B98Bu

31911 KRUK, H. Praktische käseerei: holländer käse. *Molk.-Ztg.* 4:1329-1330. (Cont.) Nov.9,1950. 44.8 M735

31912 KUNDRAT, W. Prüfung von schimmelverhütenden wandanstrichen für mauerwerk. *Milchwissenschaft* 5:410-412. Dec.1950. 44.8 M5933

31913 LAURIDSEN, C. P. La fermentación butírica en el queso. *Indus. Lech.* 32:563-566. Nov.1950. 44.8 In26

31914 LERAILLEZ, L. Le beurre continu aux U.S.A. *Vie Lait.* 6(122):1,3. Dec.25,1950. 44.8 V67

31915 LE ROI, D. Air conditioning for dairies. *Milk Indus.* 31(7):68-72. Jan.1951. 44.8 M593

As a sanitary precaution.

31916 LIST, G. Erfahrungen mit der Fritz-butternungsanlage. *Süddeut. Molk.-Ztg.* 71:1746-1747. Dec.15, 1950. 44.8 Su2

31917 MALUSHKO, V. A screw press for pressing the cheese layer. (In Russian.) *Moloch. Promysh.* 11(8):39-40. Aug.1950. 44.8 M734

31918 MATA LLANA VENTURA, S. Fuerza y cálculo del cuajo. *Badajoz. Diputación Prov. B. de Inform. Agr. y Ganad.* 8(81):19-23. Oct.1950. 15 B14

In cheese manufacture.

31919 MEISER, J. A., JR. Calculating the solids content of ice cream mixes. *Milk Plant Mon.* 40:26,28-29. Jan.1951. 44.8 C864

31920 MOHR, W., and KAUFMANN, W. Die aufräumung der milch. *Süddeut. Molk.-Ztg.* 71:1361-1363. Sept.29,1950. 44.8 Su2



- 31921 MÜLLER. Die Herstellung von Edelpilz- und Gorgonzolakäse in der Molkereigenossenschaft Grudensberg. *Molk.-Ztg.* 4:1486-1488. Dec.21,1950. 44.8 M735
- 31922 MULLER, H. C. Testing of modern pasteurization equipment. (In Dutch.) *Nederlands Melk- en Zuiveltijdschr.* 4:308-327. Ref. Oct./Dec.1950. 44.8 N283
- 31923 MÜLLER, O. Die Frage der Milchpasteurisierung in der Schweiz. *Süddeut. Molk.-Ztg.* 71:1369. Sept.29,1950. 44.8 Su2
- 31924 MYRICK, N. How homogenizers are made. *Amer. Milk Rev.* 13(2):68,10,68-69. Feb.1951. 44.8 Am38
- 31925 PETERSEN, N. Säurewecker-aroma und butterqualität. *Molk.-Ztg.* 4:1351-1352. Nov.16,1950. 44.8 M735
- 31926 PETTE, J. W., and LOKKEMA, H. Yoghurt. III. Acid production and aroma formation in yoghurt. (In Dutch.) *Nederlands Melk- en Zuiveltijdschr.* 4:261-273. Ref. Oct./Dec.1950. 44.8 N283  
English summary.
- 31927 PLOCK, K. Die Hygiene der Milchversorgung und ihr Einfluss auf die bauliche und technische Ausgestaltung von Milchversorgungsbetrieben. *Lebensmittel-Inspektor* 1:161-165. (To be cont.) Nov.1950. 41.8 L49
- 31928 POKROVSKII, N. Rational utilization of refrigeration equipment. (In Russian.) *Moloch. Promysh.* 11(8):27-32. Aug.1950. 44.8 M734  
In dairy industry.
- 31929 POSTHUMUS, G. The use of detergents in the dairy factory. III. (In Dutch.) *Alg. Nederland. Zuivelbond. Off. Orgaan* 42:622-623. Dec.27,1950. 44.9 AL3
- 31930 REED, O. E. New developments in dairy research. *Vt. U. & State Agr. Col. Dept. Anim. & Dairy Husb. Papers Presented Conf. Dairy Plant Oper. & Milk Distrib.* 29:48-54. 1950. 44.9 V593
- 31931 REES, L. Theory of homogenization. *Amer. Milk Rev.* 13(2):12-13,67-68. Feb.1951. 44.8 Am38
- 31932 RIO PÉREZ, A. DEL. La fromagerie ovine espagnole. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):547. 1950. 388 C765
- 31933 ROEDER, H. Eiweißabbauprodukte, säure- und gasbildung bei der milchreifung. *Süddeut. Molk.-Ztg.* 71:1675-1677,1708-1710. Dec.1,8,1950. 44.8 Su2
- 31934 RUTLEDGE, C., JR. Glass pipe for dairy plants. *Vt. U. & State Agr. Col. Dept. Anim. & Dairy Husb. Papers Presented Conf. Dairy Plant Oper. & Milk Distrib.* 29:23. 1950. 44.9 V593
- 31935 SÄITNER, M. Verbesserung der butterqualität in den Emmentalerkäsereien. *Süddeut. Molk.-Ztg.* 71(48): inside front cover. Dec.1,1950. 44.8 Su2
- 31936 SCHADE, H. Gezuckerte kondensmilch mit maltosezusatz. *Molk.-Ztg.* 4:1385-1386. Nov.23,1950. 44.8 M735
- 31937 SCHMITZ, F. J. Die verteilung der milch im tellerraum der separatoren. *Milchwissenschaft* 5:418-425. Ref. Dec.1950. 44.8 M5933  
English summary.
- 31938 SCHWARZ, G., and MUMM, H. Käseversuche mit nach dem elact-verfahren entsäuerter milch. *Süddeut. Molk.-Ztg.* 71:1774-1775. Dec.22,1950. 44.8 Su2
- 31939 SHEURING, J. J. A study of some physical-chemical factors affecting shrinkage of ice cream. *Urbana*, 1950. 12 p. 389.2 Sh5
- 31940 SHORTAGE of supply in '51 seen by dairy industry leaders. *Canad. Dairy & Ice Cream J.* 30:27-28. Jan.1951. 44.8 C162  
Equipment and supplies for the dairy industry.
- 31941 SOTIER, A. L. The control of microorganism populations. III. *Milk Dealer* 40(4):45-46,74-76,78. Jan.1951. 44.8 M595  
Use of quaternary ammonium compounds in the dairy industry.
- 31942 STIGLOHER, M. Fritz-butterung wird erhöht. *Süddeut. Molk.-Ztg.* 71:1744-1746. Dec.15,1950. 44.8 Su2
- 31943 STULL, J. W., HERREID, E. O., and TRACY, P. H. A study of the use of nordihydrogualaric acid in dairy products. IV. Its antioxygenic properties in spray-dried whole milk and ice cream mix with and without added synergists. *J. Dairy Sci.* 34:80-87. Ref. Jan.1951. 44.8 J822
- 31944 SWITZERLAND. SCHWEIZERISCHE MILCH-KOMMISSION. PROPAGANDA ZENTRALE. Pasteurisation du lait dans le ménage. *Berne*, 1950. 2 p. 44 Sw63
- 31945 TROUT, G. M. Make that homogenizer pay off. *Amer. Milk Rev.* 13(2):28,30. Feb.1951. 44.8 Am38
- 31946 TUCKEY, S. L. Problems in the production of cottage cheese. *Milk Plant Mon.* 40:18-20,22-24. Jan.1951. 44.8 C864
- 31947 VOROB'EV, V. A drier for casein. (In Russian.) *Moloch. Promysh.* 11(8):18-21. Aug.1950. 44.8 M734
- 31948 WEBER, C. W. High-temperature short-time pasteurization, its growth and accompanying problems. *Vt. U. & State Agr. Col. Dept. Anim. & Dairy Husb. Papers Presented Conf. Dairy Plant Oper. & Milk Distrib.* 29:10-16. 1950. 44.9 V593
- 31949 WIECHERS, S. G., and GOEDE, B. DE. Continuous butter making. *Amsterdam, North-Holland Pub.*, 1950. 103 p. 44 W635
- 31950 ZANZUCCHI, A. The activity of the Cheese Manufacturing School in protecting the cheese industry. (In Italian.) *Avvenire Agr.* 58:285-288. Dec.1950. 16 Av9
- 31951 ZENENKO, N. On types of mechanization and production volumes in butter factories. (In Russian.) *Moloch. Promysh.* 11(8):13-17. Aug.1950. 44.8 M734
- 31952 ZIEGLER, K. A. Was ereignet sich im vakuum-eindampfer? *Süddeut. Molk.-Ztg.* 71:1424-1425. (Cont.) Oct.6,1960. 44.8 Su2
- 31953 ZOBOLI, L. A. Technical problems about the utilisation and transformation of milk. (In Italian.) *Mondo del Latte* 1950:590,593-594,597,599,601,603-604. Nov.1950. 44.8 M74  
English summary

## Statistics

- 31954 CONNECTICUT. OFF. OF THE MILK ADMINISTRATOR. Compilation of statistical series pertaining to the dairy industry in Connecticut, January 1951; prepared for presentation at the public hearing January 19, 1951. n.p., 1951. 48 p. 252.13 M59
- 31955 FISCHBACH, A. Die milchwirtschaft Württemberg-Hohenzollern in zahlen. *Süddeut. Molk.-Ztg.* 71: 1613-1614. Nov.17,1950. 44.8 Su2
- 31956 HONL, Die entwicklung der milchwirtschaft in Württemberg-Baden. *Statist. Monatsh. Württemberg-Baden* 4:328-332. Oct.1950. 265 St24  
Statistics.
- 31957 U. S. BUR. OF AGRICULTURAL ECONOMICS. 1950 summary of American cheese warehouse statistics. *Chicago*, 1951. 8 p. 1.941 H8C41

## FEED AND FORAGE CROPS

- 31958 ABSHIER, G. S., and EULER, R. Suggestions for commercial feed grinding and mixing. *Purdue U. Work Simplification News Let.* 21:20-22. Nov.1950. 281.9 P97  
Labor costs.
- 31959 ANDERSON, C. B. The feed picture for 1951. *Flour & Feed* 51(8):30. Jan.1951. 298.8 F66
- 31960 BARNETT, A. J. G., and MILLER, T. B. The determination of soluble carbohydrate in dried samples of grass silage by the anthrone method. *J. Sci. Food & Agr.* 1:336-339. Ref. Nov.1950. 382 So12
- 31961 BARNSTEDT. Immer noch zu hohe futtermittelpreise. *Landwirtsbl. Weser-Ems* 97:923-924. Nov.2,1950. 18 L2345
- 31962 BERGER, W. C. Feed outlook. *Hatchery & Feed* 25:12,140. Jan.1951. 47.8 H28
- 31963 BERGER, W. C. Looking to 1951. *Flour & Feed* 51(8):7-8. Jan.1951. 298.8 F66  
Feed.
- 31964 BEVIN, F. G. The most important article we have published to date. *Poultry Field* 3(18):4-5. Jan.18, 1951. 47.8 P8655  
On rationing and control of feedingstuffs in Great Britain.
- 31965 BICKOFF, E. M., LIVINGSTON, A. L., and SNELL, N. S. The occurrence of vitamin B<sub>12</sub> and other growth factors in alfalfa. *Arch. Biochem.* 28:242-252. Ref. Sept.1950. 381 Ar2
- 31966 BOSCH, S., and DEJIS, W. B. The influence of wilting, artificial drying and storage on the chemical composition of the dried product. *Cong. Internatl. des Indus. Agr. Rap.* 8(1):433-438. 1950. 388 C765  
Grasses.
- 31967 BREIREM, K. The evaluation of feeds. *Cong. Internatl. des Indus. Agr. Rap.* 8(1):155-166. Ref. 1950. 388 C765



- 31969 BROUWER, E. Le calcul de la valeur nutritive dans l'alimentation du bétail. Cong. Internatl. des Indus. Agr. Rap. 8(1):141-148. 1950. 388 C765
- 31969 BURRELL, J. What egg-feed ratios mean to the feed dealer. Feedstuffs 23(4):50-51. Jan. 27, 1951. 286.81 F322
- 31970 FRANÇOIS, A. Le séchage artificiel des fourrages: son influence sur leur composition et leur digestibilité. Cong. Internatl. des Indus. Agr. Rap. 8(1):455-466. Ref. 1950. 388 C765
- 31971 GASNIER, A. L'amélioration et la standardisation des méthodes d'analyse des aliments du bétail. Cong. Internatl. des Indus. Agr. Rap. 8(1):125-131. 1950. 388 C765
- 31972 GIBSON, J. S. The farm tour is a novel type of feeder promotion. Feedstuffs 23(2):32, 34-35. Jan. 13, 1951. 286.81 F322
- 31973 GRATON, A. What about your feed bag label? Milling & Feed 32:18, 74. Jan. 1951. 298.8 C162
- 31974 GRIFFIN, E. D. Outlook is favorable. Flour & Feed 51(8):22. Jan. 1951. 298.8 F66
- 31975 GRIFFIN, E. D. Relationship between the feed salesman and the feed law enforcement official. Feedstuffs 23:54-57. Jan. 6, 1951. 286.81 F322
- 31976 HART, M. L. 'T. Considerations on the technique of production. Cong. Internatl. des Indus. Agr. Rap. 8(1):423-425. 1950. 388 C765
- Grass drying.
- 31977 HURST, W. M. Feed production methods vary; expensive bottlenecks exist in many mills. Feed Bag 27: 23, 88, 96. Jan. 1951. 389.78 F32
- 31978 KENTUCKY. AGRICULTURAL EXPERIMENT STATION. FEED AND FERTILIZER DEPT. Quarterly report on official feed samples analyzed. Ky. Agr. Expt. Sta. Regulat. B. 86, 32 p. Nov. 1950. 100 K41
- 31979 KNOPFF. Mischfuttermittel oder Kraftfuttermittel? Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A: 1518-1519. Nov. 2, 1950. 18 L2346
- Price relationships.
- 31980 LARSON, L. Alfalfa dehydrating industry. Flour & Feed 51(8):26. Jan. 1951. 298.8 F66
- 31981 LEROY, A. M. Necessité d'unifier les méthodes de calcul de la valeur alimentaire des aliments destinés aux animaux domestiques. Cong. Internatl. des Indus. Agr. Rap. 8(1):133-140. 1950. 388 C765
- 31982 MCGINNIS, J. P. Missouri and its feed law. Flour & Feed 51(8):22. Jan. 1951. 298.8 F66
- 31983 MAHLKUCH, E. Anlagen für Mischfutter und Getreidemischungen in Mühlen. 2-3. Mülerei 3:720, 738-739. Nov. 4, 11, 1950. 298.8 M91
- 31984 MAN, T. J. DE. Chemical analysis and feeding value. Cong. Internatl. des Indus. Agr. Rap. 8(1):119-124. 1950. 388 C765
- Of feeds.
- 31985 MARTIN, J. Le séchage artificiel des fourrages, son influence sur leur composition et leur digestibilité. Cong. Internatl. des Indus. Agr. Rap. 8(1):451-453. 1950. 388 C765
- 31986 MEIJERS, P. G. The drying room and alfalfa. (In Dutch.) Overijsselsch Landtbl. 32(1583):6. Dec. 16, 1950. 12 Ov2
- 31987 MESECK, G. Fischmehl bleibt knapp. Deut. Landwirt. Presse 73(24):13; (25):14. (Cont.) Nov. 18-Dec. 2, 1950. 18 D482
- 31988 NATIONAL RESEARCH COUNCIL. COMMITTEE ON FEED COMPOSITION. Feed composition table. Hatchery & Feed 25:76. Jan. 1951. 47.8 H28
- 31989 NELSON, A. P. Use the farm grapevine as a good-will builder. Feedstuffs 23(2):60-61. Jan. 13, 1951. 286.81 F322
- Public relations in the feed industry.
- 31990 NEVZOROV, G. A. Organization of feed production on Kaganovich Collective Farm [in Balashovskii District, Saratov Region]. (In Russian.) Sotsialist. Zhivotnovod. 12(8):27-31. Aug. 1950. 49 So71
- 31991 OLESEN, J. E. Corn and feedstuffs. (In Danish.) Andelsbladet 52:19-20. Jan. 4, 1951. 280.28 An2
- Chiefly prices.
- 31992 POUNDSTONE, B. Control and the feed industry. Flour & Feed 51(8):10-11. Jan. 1951. 298.8 F66
- 31993 PREBLUDA, H. J. The feed outlook for 1951. Flour & Feed 51(8):20. Jan. 1951. 298.8 F66
- Also in East. Feed Merchant 2(2):36. Feb. 1951. 389.78 Ea7
- 31994 ROBERTS, A. Check your pricing formula. Feedstuffs 22(52):14, 42-43. Dec. 30, 1950. 286.81 F322
- 31995 ROHR, H. VON. Futtermittelpolitik. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1688-1689. Dec. 7, 1950. 18 L2346
- 31996 SOMMERKAMP, G. Vergleichsrechnung bei wechselnden Marktpreisen für Futtermittel in der Schweinehaltung. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1621. Nov. 23, 1950. 18 L2346
- 31997 SPRENGER, J. J. I. The economic aspects of artificial grass drying. Cong. Internatl. des Indus. Agr. Rap. 8(1):443-446. 1950. 388 C765
- 31998 SPRENGER, J. J. I. The technical arrangement of green crop drying plants. Cong. Internatl. des Indus. Agr. Rap. 8(1):427-432. 1950. 388 C765
- 31999 U. S. BUR. OF AGRICULTURAL ECONOMICS. Feed statistics, including wheat, rye, rice. U. S. D. A. Statist. B. 95, 53 p. Dec. 1950. 1 Ag84St
- 32000 U. S. BUR. OF AGRICULTURAL ECONOMICS. Rations fed to milk cows, 1950, by J. L. Wilson, O. E. Grenier, and B. H. Bennett. Washington, 1951. 35 p. 1.941 H8F32
- Feed statistics.
- 32001 VERDEYEN, J. Le problème de la dessiccation artificielle des fourrages. Cong. Internatl. des Indus. Agr. Rap. 8(1):467-478. 1950. 388 C765
- 32002 WILK. The fodder programme at Nir-David. (In Hebrew.) Hassadeh 31:67-68. Nov./Dec. 1950. 26 H27

## FIBERS AND TEXTILES

- 32003 ACKERMAN, F. E. Wool markets in our expanding economy. Natl. Wool Grower 41:28-29. Jan. 1951. 45.8 N21N
- 32004 ADAM, J. Low-angle X-ray scattering from ramie and jute. Nature [London] 167:78. Jan. 13, 1951. 472 N21
- 32005 ANDERSON, J. A. The quality of western Canadian flax 1950 crop. Canada. Grain Res. Lab. Crop B. 40, 16 p. Dec. 1950. 73.9 C162
- 32006 ANDERSON, S. L., and COX, D. R. The relation between strength and diameter of wool fibres. Textile Inst. J. 41:T481-T491. Dec. 1950. 73.9 T31
- 32007 ASOCIACIÓN DE AGRICULTORES DE LA REGIÓN LAGUNERA DEL ESTADO DE DURANGO. La historia de siempre: algodón barato, telas caras. Agr. Lagunero 4(45):5-8. Dec. 25, 1950. 8 Ag824
- Pequeña Propiedad Agrícola de la Comarca Lagunera, A. C., cooperating.
- 32008 BASU, S. N., BHATTACHARYYA, A. P., and BOSE, R. G. A multiple culture technique for testing rot-resistance, particularly suited to jute materials. Textile Inst. J. 41:T466-T480. Ref. Dec. 1950. 73.9 T31
- 32009 BECKERS, P. Die erzeugung der bindfaden, erntebinde- und seilgarne. Melland Textilber. 32:10-18. Jan. 1951. 304.8 T312
- English summary.
- Discusses raw materials in the cordage industry and the spinning of hard fibers.
- 32010 BETTINI, T. M. Moisture adsorption in Angora rabbit wool. (In Italian.) Ann. della Sper. Agr. (n.s.) 4:1115-1120. 1950. 16 An76
- 32011 BOYD, R. S. Wool sale closing dates. Westralian Farmers' Co-op. Gaz. 19:335-336. Nov. 1950. 280.28 W522
- 32012 BRAZIER, A. F. The impact of post war cotton prices on tyre textiles. Egypt. Cotton Gaz. 11:5-13. Sept. 1950. 72.8 Eg9
- 32013 BROWN, C. H. High quality cotton. Egypt. Cotton Gaz. 11:1-4. Sept. 1950. 72.8 Eg9
- 32014 BURKETT, A. L., and others. Prueba de una desfibradora de espadilla para extracción de fibras de kenaf. Turrialba 1:32-36. July 1950. 8 T86
- P. P. Pujols H., I. Warner, H. Hopp, and V. C. Pettit, joint authors.
- English summary.
- 32015 CALLAGHAN, A. R. The Australian wool industry. So. Austral. Dept. Agr. J. 54:55-61. Sept. 1950. 23 So84
- 32016 CAMARGO, F. The domestic jute situation. (In Portuguese.) Assoc. Com. do Amazonas. B. 9(107): 13-16. June 1950. 286.9 As7B



- 32017 CARTER, E. G. Quelques nouveaux progrès scientifiques de l'industrie lainière. *Monit. Textile* 13: 33,35,39,41-42,45,47,49-50. Jan.1951. 304.8 M74
- 32018 CHAKRABARTI, B. K. The breaking-twist and diameter of bundles of jute fibre and their relations to spinning quality. *Indian Textile J.* 61:105-115. Nov.1950. 304.8 In2
- 32019 CHITTENDEN, A. E., and COCMBER, H. E. Tingo fibre from Nyasaland. *Colon. Plant & Anim. Prod.* 1:138-140. Apr./June 1950. 472 C71  
Obtained from *Pouzolzia hypoleuca*.
- 32020 CLEGG, O. Quality control and the new fibres. I. The dangers of indiscriminate substitution. *Textile Mercury & Argus* 124:141,143-144. Jan.26,1951. 304.8 T318
- 32021 COX, D. R., and INGHAM, J. Some causes of irregularity in worsted drawing and spinning. *Textile Mfr.* 76:317-318. July.1950. 304.8 T3126
- 32022 CUMMINS, C. B. The English system of condenser spinning. *Textile Mfr.* 76:207-212. (To be cont.) May 1950. 304.8 T3126
- 32023 DABBOUS, R. The statistical position of Egyptian cotton at 31st August 1950. *Egypt. Cotton Gaz.* 11:73-84. Sept.1950. 72.8 Eg9
- 32024 DALY, J. A. Big year for textiles: Industry meets a national emergency, rising costs and a growing demand. *Cotton Digest* 23(17):14-15,34-35. Jan.13,1951. 286.82 C822
- 32025 DEVLIN, S. A study of American Woolen Co. *Mag. Wall St.* 87:507-509,526-527. Feb.10,1951. 286.8 M27
- 32026 DOCKRAY, G. H., MEADOWS, B., and SMITH, L. Cotton waste. *Washington?* 1950. 35 p. 304 D653
- 32027 DOUGLAS, G. T. Recent progress in the processing of rayon and synthetic fibres. *Textile Rec.* 68(814):93-94. Jan.1951. 304.8 T311
- 32028 DOUGLAS, T. W. The rayon yarn industry in Virginia. *Charlottesville, Bur. Population & Econ. Res., U. Virginia*, 1950. 44 p. Ref. 304 D742
- 32029 DUBMAN, M. C. "High" wool prices reflect general rise; demand increasing as world stockpile falls. *Woolfacts Educ.* 1950:5. Nov./Dec.1950. 304.8 W885
- 32030 THE DUTCH list of varieties of linen-flax 1947, translated by E. Selman-Towt. n.d. 5 p. Translation 6419.  
Translated from Lin 6:123-126. 1947.
- 32031 EKBERG, L. Retting or green-processing of flax for spinning, translated by E. Selman-Towt. n.d. 4 p. Translation 6416.  
Translated from Lin 5:103-105. June 1947.
- 32032 FORSYTH-SMITH, C. M. New Zealand adopts plan to counteract inflationary effect of wool prices. *Foreign Trade* 8:1131. Dec.30,1950. 286.8 C162
- 32033 FREDERIKSEN, P. S. Comparison between green-scutching and warm-water retting according to various treatments of the straw in the field, translated by Selman-Towt E. n.d. 15 p. Translation 6411.  
Translated from Lin 3:61-70. Apr.1948.
- 32034 GALINI, I. The domestic textile industry and Italian fashion. (In Italian.) *Roma Econ.* 3:696. Oct.1950. 280.8 R66
- 32035 GENIN, G. Le mécanisme de l'action de la formaldéhyde sur les fibres synthétiques à base de protéines. *Lait* 30:680-687. Nov./Dec.1950. 44.8 L143
- 32036 GHIJSEN, J. J. Description of experiments with an accelerated flax retting process on laboratory, semi-technical and technical scale. n.d. 18 p. Translation 6399.  
Translated from *VezelInstituut, T.N.O.*, No.64. 1942.
- 32037 GILL, L. Wool growers see new market in Pacific Coast mills. *Mont. Farmer-Stockman* 38(8):9. Dec.15,1950. 6 M764
- 32038 GILLIEAUX, P. L'industrie de la soie au Congo Belge. (Sum.) *Cong. Internat. des Indus. Agr. Rap.* 8(1):562. 1950. 388 C765
- 32039 GILLIEAUX, P. L'industrie du coton au Congo Belge. (Sum.) *Cong. Internat. des Indus. Agr. Rap.* 8(1):562. 1950. 388 C765
- 32040 GOLDBERG, J. B. Textile research achievements, 1950. *Textile B.* 77:51-52,54,56,58. Jan.1951. 304.8 So82  
Also in *Canad. Textile J.* 68(3):56,60,62;(4):66,68. Feb. 2-16,1951. 304.8 C16
- 32041 GOLDTHWAIT, C. F. Reaction of formaldehyde with cotton. *Textile Res. J.* 21:55-62. Ref. Jan. 1951. 304.8 T293
- 32042 GOODINGS, A. C. Observations on the properties of wool with particular reference to scouring. *Amer. Dyestuff Rptr.* 40:P55-P60. Jan.22,1951. 306.8 Am3
- 32043 GOOT, H., and BELIN, R. E. A photo-electric instrument for measuring tippiness in wool staples. *Textile Inst. J.* 41:T455-T465. Ref. Dec.1950. 73.9 T31
- 32044 GRANHALL, I. The marketing possibilities for Swedish spinning-fibres and the problem of quality, translated by E. Selman-Towt. n.d. 16 p. Translation 3405.  
Translated from Lin 10:223-233. Dec.1947.
- 32045 GUTHRIE, J. G. Wool market at all time high. *Natl. Wool Grower* 41:48-49. Jan.1951. 45.8 N21N  
Australia.
- 32046 HAARER, A. E. A fibre crop for Britain; New Zealand hemp, already acclimatized, can be an attractive proposition. *Farmer & Stock-Breeder* 3193:27. Jan.2, 1951. 10 F228
- 32047 HAARER, A. E. Jute and jute substitute fibres: the facts. *Cordage World & Indus. Textiles* 374:19. Dec. 1950. 73.8 C813
- 32048 HAARER, A. E. World research into Bimlipa-tam jute; investigations in Cuba and Africa. *Cordage World & Indus. Textiles* 32(375):15. Jan.1951. 73.8 C813
- 32049 HARRIS, M. Synthetic fibers "discovered." *Chem. & Engin. News* 29:35-36. Jan.1,1951. 381 J825N
- 32050 HASELMANN, H. Über den histologischen aufbau der schuppenschicht von tierischen haaren. *Mel-land Textilber.* 32:1-6. Ref. Jan.1951. 304.8 T312  
English summary.
- 32051 HEARN, J. B. The peril of forty-cent cotton. *Staple Cotton Rev.* 29:1-2. Jan.1951. 72.8 St22
- 32052 HIMMELFARB, D. Cordage testing methods. IV. Proof testing of rope. *Fibres, Fabrics & Cordage* 17: 398-400. Dec.1950. 304.8 Ir42
- 32053 HOPE, H. W. The British Raw Cotton Commission cover scheme. *Egypt. Cotton Gaz.* 11:23-28. Sept. 1950. 72.8 Eg9
- 32054 HOPKINS, G. E. Use of cheaper wools in fine apparel held possible as result of fiber research. *Wool-facts Educ.* 1950:4. Nov./Dec.1950. 304.8 W885
- 32055 HOPKINS, S. V., and ZENTLER, A. P. The market for wool goods. I. France. *World Wool Digest* 1(25):6-8. Jan.3,1951. 304.8 W89
- 32056 HORNE, M. K., JR. Cotton price policy in relation to the domestic market. *J. Farm Econ.* 32:738-751. Nov.1950. 280.8 J822
- 32057 HURST, F. J. Cotton rises again. *Prog. Farmer, Miss.-Ark.-La. Ed.* 66(2):15,117. Feb.1951. 6 So81  
Cotton situation.
- 32058 INSTITUT DE RECHERCHES DU COTON ET DES TEXTILES EXOTIQUES. La production des plantes à fibres dans l'Union Française et les travaux de l'Institut de Recherches du Coton et des Textiles Exotiques. *Marseille. Inst. Colon. Cahiers Colon. (n.s.)* 1950:311-322. (Cont.) Oct.1950. 286.8 M35
- 32059 IUUL, N. New method for the treatment of retting water, translated by E. Selman-Towt. n.d. 2 p. Translation 6401.  
Translated from Lin 9:210. Nov.1947.
- 32060 JACKENDOFF, R. The economic position of prices of apparel wool and its products in the United States. *World Wool Digest* 1(13):4-6. July 19,1950. 304.8 W89
- 32061 JACHENDOFF, R. World wants more wool than ever before. *Com. B.* 93(4902):12-13. Feb.3,1951. 286.8 C736
- 32062 JACOBSEN, H. Determination of the fibre-content of flax straw, translated by E. Selman-Towt. n.d. 7 p. Translation 6406.  
Translated from Lin 2:19. Mar.1947.
- 32063 JACOBSEN, H. A few observations concerning the technology and economy of the processing of flax, translated by E. Selman-Towt. n.d. 23 p. Translation 6409.  
Translated from Lin 4:73-90. May 1949.
- 32064 KLAEBOE, R. Fiber and its preparation. (In Norwegian.) *Norsk Tekstil Tid.* 31:400-403. (To be cont.) Dec.1950. 304.8 N81
- 32065 KLERK, J. C. DE. Why synthetics cannot replace wool. *Wolboer* 39:22-23. Oct.1950. 45.8 W83
- 32066 LIND, J. Linum—a combined flax scutching and spinning mill, translated by E. Selman-Towt. n.d. 15 p. Translation 6410.  
Translated from Lin 3:1-15. Jan.-Feb.1949.



- 32067 LINDSLEY, C. H. Measurement of fiber orientation. *Textile Res. J.* 21:39-46. Jan.1951. 304.8 T293
- 32068 LUNA R., F. Las ventas del algodón. *Agr. Lagunero* 4(45):19-20. Dec.25,1950. 8 Ag824
- 32069 LUND, R. G. World wool research and promotion. *Natl. Wool Grower* 41:16-17. Jan.1951. 45.8 N21N
- 32070 LUNG, C. The wool industry moves West. *Natl. Wool Grower* 41:24. Jan.1951. 45.8 N21N
- 32071 MCCALL, E. R., and JURGENS, J. F. Chemical composition of cotton. *Textile Res. J.* 21:19-21. Ref. Jan.1951. 304.8 T293
- 32072 MCWILLIAMS, C. New land of cotton. *Nation* 172:129-130. Feb.10,1951. 280.8 N215
- Increased cotton acreage in California as a result of lifting of marketing quotas and acreage allotments.
- 32073 MAKINSON, K. R. The frictional properties of wool fibres. *Textile Inst. J.* 41:T494. Dec.1950. 73.9 T31
- 32074 MAURITIUS HEMP PRODUCERS' SYNDICATE. Rapport du président sur l'exercice 1949. *Rev. Agr. de l'Ile Maurice* 29:226-235. Sept./Oct.1950. 24 M744
- 32075 MEEUSE, A. D. J. Comparative research of methods for determining the maturity of cotton. (In Dutch.) *Textielwezen* 6(11):27-30. Nov.1950. 304.8 T3147
- Includes discussion.
- 32076 MEULEMEESTER, D. DE. Examen comparatif des méthodes d'appréciation du degré de maturité du coton. *Textielwezen* 6(11):21-23,25. Nov.1950. 304.8 T3147
- 32077 MILLER, R. C. The country needs wool. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 66(2):24,119. Feb.1951. 6 P945K
- 32078 MONCRIEFF, R. W. Quality of retted flax. *Textile Mfr.* 76:243,245. May 1950. 304.8 T3126
- 32079 MONCRIEFF, R. W. Research into retting of textile fibres. *Skinner's Silk & Rayon Rec.* 25:118,121. (To be cont.) Jan.1951. 304.8 S132
- 32080 MOORE, P. E. The New York Cotton Exchange plays a vital part in the national economy. *Cotton Digest* 23(17):11,38. Jan.13,1951. 286.82 C822
- 32081 MORLIER, O. W., ORR, R. S., and GRANT, J. N. The relation of length to other physical properties of cotton fibers. *Textile Res. J.* 21:6-13. Ref. Jan.1951. 304.8 T293
- 32082 MURCHISON, C. T. Economist surveys prospects of the textile industry in a world crisis. (Excerpts.) *Cotton Digest* 23(17):12-13,36-37. Jan.13,1951. 286.82 C822
- 32083 NICKERSON, D. New automatic cotton colorimeter for use in cotton quality specification. *Textile Res. J.* 21:33-38. Jan.1951. 304.8 T293
- 32084 OLIVER, J. G. World rayon production and consumption. *Skinner's Silk & Rayon Rec.* 25:29,31-32, 34. Jan.1951. 304.8 S132
- Statistics.
- 32085 PERCY, J. S. Cotton's role in war. *Cotton Gin & Oil Mill Press* 52(3):34-35. Feb.3,1951. 304.8 C822
- 32086 PRINGLE, A. V. The theory and practice of flax spinning. *Fibres, Fabrics & Cordage* 17:411-415. (Cont.) Dec.1950. 304.8 Ir42
- 32087 PRITCHETT, W. M. Recent developments indicate bright future for the mohair industry in the Southwest. *Sheep & Goat Raiser* 31(4):22-25,44-47. Jan. 1951. 45.8 Sh3
- 32088 RAES, G. Description des méthodes microscopiques et études de corrélation. *Textielwezen* 6(11):31-35,37-44. Nov.1950. 304.8 T3147
- Tests for cotton maturity.
- 32089 RAGAZZI, G. The retting of hemp. (In Italian.) *Agr. Ferrarese* 54:91-92. Apr.30,1950. 16 Ag87
- 32090 REEVES, R. E., and JUNG, J. R., JR. Stabilization of neutral hypochlorite-oxidized cotton fiber. *Textile Res. J.* 21:22-25. Jan.1951. 304.8 T293
- 32091 RICHARDS, R. E. The cooperative becomes of age; twenty-one years' successful operations. *Wool News* 16(6):4-7. Jan.1951. 280.28 W882
- Wisconsin Cooperative Wool Growers' Association.
- 32092 ROHLF, J. A. Needed: 60% more cotton. *Farm J.* 75(3):24,26. Mar.1951. 6 F2212
- 32093 ROSE, P. D. Good classing always pays. *Woolboer* 39:32. Oct.1950. 45.8 W83
- 32094 ROY, S. C., and SEN, M. K. The assessment of oil content in the process of jute manufacture. *Textile Mfr.* 76:219-221. May 1950. 304.8 T3126
- 32095 RÜDIGER, W. Entstehung und verlauf der bastfasern im leinstengel—ein Überblick über den gegenwärtigen stand unserer Kenntnisse. *Melland Textilber.* 32:7-9. Ref. Jan.1951. 304.8 T312
- English summary.
- 32096 SARKAR, P. B. The chlorine-sulphite test for lignin. *Cur. Sci.* 19:381. Dec.1950. 475 Sci23
- Jute.
- 32097 SCHAUENSTEIN, E., and TREIBER, E. UV-untersuchungen an viskose-spektrophotometrische bestimmung von xanthogenatschwefel und trithiokarbonat. *Melland Textilber.* 32:43-47. Ref. Jan.1951. 304.8 T312
- English summary.
- 32098 SCHMID, E. L'industrie du lin en Suisse. *Fleur Bleue* 13:73-76. Dec.1950. 304.8 F63
- 32099 SCHWARTZ, M. J. World wool-stock and mill-waste situation. *Foreign Com. Wk.* 42(2):3-4,26-28. Jan.8,1951. 157.54 F763
- 32100 SEN, K. R. Physical tests to predict yarn quality. *Jute & Gunny Rev.* 2:593-599. Oct.1950. 73.38 J983
- 32101 SEQUEIRA, M. DE O. M. Technology of flax (Considerations on retting). (In Portuguese.) *Agros [Lisboa]* 33:199-246. Ref. Sept./Oct.1950. 15.5 Ag82
- 32102 SIMS, I. H. The Angora outlook for 1951. *Angora Rabbit Mag.* 6(3):1. Dec.1950/Jan.1951. 40.28 An42
- 32103 SKAU, E. L. Simple expressions for the circularity and fullness of fibers. *Textile Res. J.* 21:14-17. Ref. Jan.1951. 304.8 T293
- 32104 SLAGLE, A. B. Looking ahead with cotton. *Sowest. Crop & Stock* 5:10,14-15. Jan.1951. 6 S08942
- 32105 TESTORE, F. A. Measurement of "scaliness" of wool fiber. (In Italian.) *Cron. Econ.* 93:21-23. Nov. 15,1950. 280.8 C882
- 32106 THEVES, M. Rapport sur l'utilisation du bananier fructifère en tant que plante textile. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):562-563. 1950. 388 C765
- 32107 THORNDIKE, G. H. Some causes of woollen yarn irregularities. *Textile Mfr.* 76:318-320. July 1950. 304.8 T3126
- Includes carding.
- 32108 TOBLER, F. Flax fibre in retting, translation by M. Slade. n.d. 7 p. Translation 6422.
- Translated from *Textil-Rundschau* 4:186-190. May 1949.
- 32109 U. S. BUR. OF AGRICULTURAL ECONOMICS. Fiber consumption in textiles used for passenger automobile interiors. Preliminary summary report. Washington,1950. 5 p. 1.941 H22F44
- 32110 U. S. PRODUCTION AND MARKETING ADMIN. An evaluation of the use of the portable platform dial scale for weighing operations in cotton warehouses, by A. W. Steinberg and C. D. Boit. Washington,1950. 7 p. 1.956 M343Ev1
- 32111 U. S. PRODUCTION AND MARKETING ADMIN. Revised micronaire fiber-fineness scale for use in testing American upland cottons. Washington,1950. 2 p. 1.956 C82R32
- 32112 U. S. PRODUCTION AND MARKETING ADMIN. The sampling of cotton bales as related to marketing, by R. C. Soxman, and G. E. Gaus. Washington,1950. 26 p. 1.956 C82Sa42
- 32113 U. S. PRODUCTION AND MARKETING ADMIN. Universal Cotton Standards Conference of 1950. Washington,1950. 20 p. 1.9 Ec7Inc
- 32114 WAKEHAM, H., and HONOLD, E. Mechanical hysteresis properties of single fibers and cords. *Textile Res. J.* 21:1-5. Ref. Jan.1951. 304.8 T293
- 32115 WERTH, F. M. Whys and wherefores of cooperative wool marketing. *Breeder-Stockman* 12(9):71. Feb.1951. 49 V81
- 32116 WHITE, E. D. World prospects in cotton. *J. Farm Econ.* 32:759-770. Nov.1950. 280.8 J822
- 32117 WILLIAMS, S. Cotton, wool face-lifted; never before have there been such improvements in textiles as right now. *Utah Farmer* 71:151,153. Feb.15,1951. 6 D45
- 32118 WILLIAMS, S. Textiles. *Utah Farmer* 71:41. Jan.18,1951. 6 D45
- 32119 WILLIAMS, T. L. Use of synthetics for industrial purposes. *Canad. Textile J.* 68(3):48,50,52,55. Feb.2,1951. 304.8 C16



- 32120 WINDEL, D. The raw cotton and cotton textile situation in the United Kingdom. Egypt. Cotton Gaz. 11: 17-21. Sept.1950. 72.8 Eg9
- 32121 WOOD, W. J. Wool grading in mill management. Textile Mercury & Argus 124:151,153,155. Jan.26, 1951. 304.8 T318
- 32122 YVE, COMTE D'. L'emballage des fibres d'Urena et de Punga au Congo en vue de leur exportation. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):564. 1950. 388 C765
- 32123 YVE, COMTE D'. Le rouissage des fibres d'Urena lobata et de Cephalonema polyantrum (Punga) au Congo Belge. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):563. 1950. 388 C765

## FRUITS, VEGETABLES, AND NUTS

- 32124 ADRIANCE, G. W. Observations on the citrus industry of Italy. Rio Grande Val. Hort. Inst. Proc. 5:85-97. 1951. 81 L95
- 32125 ANJOU, K. The national exhibition Swedish fruit in Osterman's marble halls. (In Swedish.) Sveriges Pomol. För. Fruktodlaren 21:206-210. 1950. 86 Sv2F
- 32126 Ball, M. Potatoes; surprisingly, they have played an important part in the world's history, both social and economic. Farmer & Stock-Breeder 65:449. Feb.6,1951. 10 F228
- 32127 BENNETT, H., and COOMBER, H. E. Aloes from the Leeward Islands. Colon. Plant & Anim. Prod. 1:137-138. Apr./June 1950. 472 C71
- 32128 BORGSTROM, G. Data on the fruit must industry in Canada. (In Swedish.) Sveriges Pomol. För. Fruktodlaren 21:220-222. 1950. 86 Sv2F
- 32129 BOSTEL, F. Kalifornischer apfel erobert den weltmarkt. Obstbau 70:12-13. Jan.1,1951. 80 Ob73
- 32130 BRYANT, H. E. Mid-century crossroads. United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:14-16. 1951. 280.3939 Un3
- Fruit and vegetable industry.
- 32131 CHATELAIN, A. Les migrants temporaires viticulteurs de Belmont (Bas-Valromey). Etudes Rhodaniennes 26:43-44. 1951. 473 E18
- 32132 COOMBER, H. E., COOMES, T. J., and ISLIP, H. T. Tonka beans from Nigeria. Colon. Plant & Anim. Prod. 1:134-136. Apr./June 1950. 472 C71
- Coumarin content for use in tobacco industry and as perfume.
- 32133 DAVIES, A. J. Seed potato production in Wales. Wales. Gt. Brit. Min. Agr. Agriculture 57:420-426. Dec. 1950. 10 G79J
- 32134 DICKMAN, P. B. Florida's vegetable industry is diversified. United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:96-99. 1951. 280.3939 Un3
- 32135 DUCAP, R. Le raisin, beau fruit de table. Ble et le Vin 27(1158):3. Dec.1/15,1950. 14 B61
- 32136 EVANS, J. Apple growing and selling in British Columbia. Fruit, Flower & Veg. Trades' J. 98 (27):19. Dec.30,1950. 80 F946
- 32137 HENRIKSON, K. Report on the harvest control 1949. (In Swedish.) Sveriges Pomol. För. Fruktodlaren 1950:182-185. 86 Sv2F
- Fruit yields.
- 32138 HOLLEMAN, L. W. J. Java tapioca, its manufacture, grading and use. Organ. Sci. Res. Indonesia. O.S.R.P. 22,14 p. Ref. Sept.12,1950. 330.9 Or3P
- 32139 JANY, W. Warum förderung der kartoffel-wirtschaft? Kartoffelbau 1:45-47,74-75. Aug.-Sept.1950. 75.8 K145
- Germany.
- 32140 JONES, C. H. Prospects for strawberry growing. Fruit-Grower 2875:195-196. Feb.1,1951. 80 F941
- Great Britain.
- 32141 KITCHEN, C. W. New factors appear in sharp focus. United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:24-25. 1951. 280.3939 Un3
- On the United Fresh Fruit and Vegetable Association.
- 32142 MATKIN, T. D. A year of readjustment. Fruit, Flower & Veg. Trades' J. 98(27):21,24. Dec.30, 1950. 80 F946
- British fruit industry.
- 32143 MATUSEVICH, G. I. To secure the southern regions [U.S.S.R.] with healthy seed potatoes. (In Russian.) Sad i Ogorod 1950(10):75-78. Oct.1950. 80 Sa13
- 32144 NEW ZEALAND FRUITGROWERS' FEDERATION. 34th annual conference, 1950. n.p.,1950. 28 p. 87 N484
- 32145 NEWTON, D. Florida's great citrus industry. United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:108-109. 1951. 280.3939 Un3
- 32146 NICOLAISEN, N. Um den deutschen gemüsebau. Deut. Landwirt. Presse 73(25):2-3. Dec.2,1950. 18 D482
- 32147 O'DONNELL, A. C. On the fifty-yard line; a glance into the future by your president. United Fresh Fruit & Veg. Assoc. Annu. Conv. 46:14-16. 1950. 280.3939 Un3
- 32148 RAINS, A. T. Your association, dedicated to the industry's advancement. United Fresh Fruit & Veg. Assoc. Annu. Conv. 46:26-28. 1950. 280.3939 Un3
- 32149 ROARK, J. Where is the wholesaler's volume going. Appleland News 15,i.e.16:6,8-9,12. Jan.1951. 80 Ap53
- California fruit and vegetable industry.
- 32150 ROSA, M. DE. Hazelnuts in Avellino. (In Italian.) Italia Agr. 87:700-706. Nov.1950. 16 It1
- The industry.
- 32151 ROSA, M. DE. The perfumed black truffle. (In Italian.) Gior. di Agr. 61:3. Jan.7,1951. 16 It1G
- The industry in Italy.
- 32152 SCHARDEY, A. Kartoffelanbau und -verwertung im wirtschaftsjahr 1950/51. Kartoffelbau 1:47-48. Aug.1950. 75.8 K145
- 32153 SEELIG, R. Do you know the answers? A quiz on some basic facts of the produce industry. United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:192-194. 1951. 280.3939 Un3
- 32154 SOUSA, J. S. I. DE. Evolution and state of São Paulo viticulture. (In Portuguese.) Rev. de Agr. [Piracicaba] 25:381-396. Nov./Dec.1950. 9.2 R324
- 32155 TACKE, Die kartoffel in aller welt: ein rundblick. Kartoffelbau 1:67-69. Aug.1950. 75.8 K145
- 32156 UNITED FRESH FRUIT AND VEGETABLE ASSOCIATION. Forty-seventh annual convention, Miami Beach, Florida, January 13-18, 1951. Chicago?1951. 226 p. 280.3939 Un3
- 32157 UNITED FRESH FRUIT AND VEGETABLE ASSOCIATION. 46th annual convention, New York, January 30-February 2, 1950. New York,1950. 224 p. 280.3939 Un3
- 32158 VIEIRA, C. The lack of collective organization among fruit growers. (In Portuguese.) Gaz. do Agr. 2: 241-243. Oct.1950. 24 G25
- Mozambique.
- 32159 VISWANATHAN, R. Preparation & properties of  $\beta$ -dextrin from arrowroot starch. J. Sci. & Indus. Res. 9B:285-289. Ref. Dec.1950. 475 J82
- 32160 VOGT, W., and others. Pflanzkartoffel-erzeugervereinigungen ein querschnitt durch das Bundesgebiet. Kartoffelbau 1:49-56. Aug.1950. 75.8 K145
- K. Borgmann, Schröder, J. Vogler, A. Matthes, Schindler, and Grassl, joint authors.

## Analysis and Composition

- 32161 AMERINE, M. A. The acids of California grapes and wines. II. Malic acid. Food Technol. 5:13-16. Ref. Jan.1951. 389.8 F7398
- 32162 ANTONIANI, C., FEDERICO, L., and VALLE, T. Caracteristiques de l'oxydase-ascorbique de la carotte (Daucus carota). (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):484. 1950. 388 C765
- 32163 CILLIE, G. G., and JOUBERT, F. J. Occurrence of an amylopectin in the fruit of the granadilla (Passiflora edulis). J. Sci. Food & Agr. 1:355-357. Ref. Dec.1950. 382 So12
- 32164 DESCHREIDER, A. R., and FOUASSIN, A. La détermination de la teneur en fruits des confitures et marmelades. Cong. Internatl. des Indus. Agr. Rap. 8(1): 109-118. 1950. 388 C765
- 32165 EHLERS, V. B., and HILL, G. A. Chemical investigation of the New England horse chestnut, Aesculus hippocastanum. Amer. Oil Chem. Soc. J. 28:45-46. Feb.1951. 307.8 J82
- 32166 FAVILLE, L. W., HILL, E. C., and PARISH, E. C. Survival of microorganisms in concentrated orange juice. Food Technol. 5:33-36. Jan.1951. 389.8 F7398



**32167 GENTILINI, L., and CARLI, E.** Correspondence between Babo grades and real sugar content in the most common grape musts of the Veneto region. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4:1049-1067. 1950. 16 An76  
English summary.

**32168 GERSONS, L.** Observations on the determination of fruit content in jams. (In Dutch.) *Cong. Internat. des Indus. Agr. Rap.* 8(1):99-108. 1950. 388 C765  
Summary in French.

**32169 KRISHNA MURTI, C. R.** Physico-chemical studies on papaya and Indian gooseberry pectins. *Indian Acad. Sci. Proc. Sect. A* 32:59-66. Ref. Aug.1950. 513 In25B

**32170 MACDONNELL, L. R., and others.** The specificity of pectinesterases from several sources with some notes on purification of orange pectinesterase. *Arch. Biochem.* 28:260-273. Ref. Sept.1950. 381 Ar2  
R. Jang, E. F. Jansen, and H. Lineweaver, joint authors.

**32171 MARCUSE, R.** Jämförelse mellan refraktometer- och torkmetoden vid analys av tomatkoncentrat [Comparison between the refractometer method and the drying method in analysis of tomato concentrate]. *Svenska Inst. f. Konservforsk. P.* 17,14 p. Ref. 1950. 389.9 Sv2

**32172 OGREN, R. M.** Microscopic analysis of tomato products; illustrated by the author. *Palo Alto? Calif.*, 1950. Ref. 64 p. 389.4 Og7

**32173 OLLIVER, M.** Laboratory assessment of pectin quality with special reference to jelly grading. *J. Sci. Food & Agr.* 1:329-336. Ref. Nov.1950. 382 So12

**32174 PACHECO, J. A. DE C.** Preliminary observations on the influence of cassava variety on the viscosity of the starch. (In Portuguese.) *Rev. de Agr. [Pracibaca]* 25:337-366. *Nov./Dec.* 1950. 9.2 R324

**32175 PATRON, A.** Sur le dosage de l'eau dans la pâte de banane séchée. *Fruits d'Outre Mer* 5:375-378. Nov.1950. 80 F9492

**32176 POSTERNAK, T.** On the phosphorus of potato starch. *J. Biol. Chem.* 188:317-325. Ref. Jan.1951. 381 J824

**32177 POTTER, E. F.** New moisture test gives faster results; in hours instead of days, water contents of purees and concentrated fruit products are accurately gaged; drying agent does the trick. *Food Indus.* 23:85, 190. Jan.1951. 389.8 F737

**32178 RIGOT, N.** La sélection de la pomme de terre industrielle. (Sum.) *Cong. Internat. des Indus. Agr. Rap.* 8(1):543. 1950. 388 C765  
Composition.

**32179 SADASIVAN, V.** The phosphatases in coconut (*Cocos nucifera*). *Arch. Biochem.* 30:159-164. Ref. Jan.1951. 381 Ar2

**32180 STAUB, M., and WIDMER, R.** Die prüfung authentischer traubensäfte auf sorbit. *Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hyg.* 41:448-453. 1950. 389.9 Sw6

French summary.

**32181 WHITTENBERGER, R. T.** Measuring the firmness of cooked apple tissues. *Food Technol.* 5:17-20. Jan.1951. 389.8 F7398

#### Consumption and Utilization

**32182 FUGETT, K. A.** Consumer preferences for fresh and processed citrus. *Rio Grande Val. Hort. Inst. Proc.* 5:103-108. 1951. 81 L95

**32183 MATHOT, H. J., and DOESBURG, J. J.** The use and composition of rhubarb stems. (In Dutch.) *Voeding* 11:423-439. Ref. Nov.15,1950. 389.8 V85

**32184 NOVASIO, D.** Considerations on the German market; the problem of increased fruit consumption. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 7:7. Jan.27,1951. 281.8 Ag3

**32185 SIEBENEICK, D.** Die ansprüche der verbraucher sind massgebend für die sortenwahl. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1587-1588. Nov.16,1950. 18 L2346  
Potatoes.

**32186 VRIES, H. DE, and LEE, J. VAN DER.** Legumes as raw material for pastries. II. Sweet lupins. (In Dutch.) *Voeding* 11:419-422. Nov.15,1950. 389.8 V85  
English summary.

**32187 WILSON, J.** Extra market for potatoes. *Capper's Farmer* 62(2):19,40-41. Feb.1951. 6 M693  
Feed for livestock.

#### Distribution, Marketing, and Transportation

**32188 BARDT, R.** Gedanken zur herbstverladung von pflanzkartoffeln. *Kartoffelbau* 1:76. Sept.1950. 75.8 K145

**32189 BARR, G. W.** Cutting costs of marketing citrus. *Prog. Agr. Ariz.* 2(4):4,11. Jan./Mar.1951. 6 P9452

**32190 BEMIS, K. P.** Potato Division stresses merchandising. *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 46:167. 1950. 280.3939 Un3

**32191 BEMIS, K. P.** The problem of that fourth bushel. *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 47:66-67. 1951. 280.3939 Un3  
Disposal of surplus potatoes.

**32192 BOULDIN, R.** Five years of deep plowing and a big "money crop." *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 47:58-59. 1951. 280.3939 Un3  
Fruit and vegetable marketing.

**32193 BRYANT, H. E.** The United Potato Division at work. *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 46:163. 1950. 280.3939 Un3

**32194 BUHLE, W.** Was geschieht auf dem kartoffelmarkt? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1515-1516. Nov.2,1950. 18 L2346

**32195 BURROWS, L. F.** What Canadians think of UMI [United Merchandising Institute]. *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 47:175-176. 1951. 280.3939 Un3

**32196 CALIFORNIA FRUIT GROWERS EXCHANGE.** Annual report for the year ended October 31, 1950. n.p., 1950. 31 p. 81 C127R

**32197 CARLSEN, E. W.** Marketing research hikes growers' profits. *West. Fruit Grower* 4(12):17-18. (To be cont.) Dec.1950. 95.8 G762

Work of the Research Department of the Washington State Apple Commission.

**32198 COPPLE, H. E.** The "slamese twins of industry" merchandising and advertising. *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 47:120. 1951. 280.3939 Un3  
Washington apple industry.

**32199 CROW, W. C.** Improving terminal markets. *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 47:206-207. 1951. 280.3939 Un3  
For fresh fruit and vegetables.

**32200 CURRY, T. C.** Points to remember about the Perishable Agricultural Commodities Act. *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 46:156-157. 1950. 280.3939 Un3

**32201 ELLER, R. Z.** Are you doing right by Mary? *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 46:48-49. 1950. 280.3939 Un3

Public relations in the fruit and vegetable industry.

**32202 ELLER, R. Z.** Did he do all that with posters; Bill gets an earful about a powerful advertising program. *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 47:172-173. 1951. 280.3939 Un3  
Fruit and vegetables.

**32203 FADLER, L. F.** Blasting snags from the channels of distribution. *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 46:110-111. 1950. 280.3939 Un3

**32204 FADLER, L. F.** The seeds of merchandising five years ago—and today. *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 47:44-45. 1951. 280.3939 Un3  
Fruit and vegetables.

**32205 FUHR, A. H.** Negroes build market for new products. *News Farmer Coop.* 17(11):9-10. Feb.1951. 166.2 N47

Cooperative Vegetable Production and Marketing Association, Chester, S. C.

**32206 GAD, S.** The marketing of vegetables. (In Hebrew.) *Hassadeh* 30:686-687. Sept.1950. 26 H27

**32207 HEALER, M. D.** Now look here, Mrs. Jones! How we talk to the ladies. *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 46:38-40. 1950. 280.3939 Un3

Public relations in the fresh fruit and vegetable industry.

**32208 HEDLUND, F. F.** The impact of marketing agreements upon the marketing of fruits and vegetables. *J. Farm Econ.* 32:1006-1015. Nov.1950. 280.8 J822  
Discussion by H. G. Hamilton, p. 1016-1018.

**32209 HERRMANN, O. W.** Progress in marketing research. *United Fresh Fruit & Veg. Assoc. Annu. Conv.* 46:150-151. 1950. 280.3939 Un3



- 32210 HÖPPNER, R. Spät kommt ihr—doch ihr kommt! Kartoffelwirtschaft 3:451-452. Nov.17,1950. 286.83 K14  
Potato marketing regulation in Germany.
- 32211 IMMING, B. J. Introducing your UMI [United Merchandising Institute] staff. United Fresh Fruit & Veg. Assoc. Annu. Conv. 46:116-119. 1950. 280.3939 Un3
- 32212 IMMING, B. J. UMI [United Merchandising Institute] & the ampersand. United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:166-167. 1951. 280.3939 Un3  
Fruit and vegetable marketing.
- 32213 KELLEY, J. N. What the modern refrigerator car means to your industry. United Fresh Fruit & Veg. Assoc. Annu. Conv. 46:72-75. 1950. 280.3939 Un3
- 32214 KUNZ, H. Das rückgriffsrecht auf den erzeuger in den neuen kartoffel-geschäftsbedingungen. Kartoffelwirtschaft 3:452-453. Nov.17,1950. 286.83 K14  
Germany.
- 32215 LACOSTE, R. Uncle Sam, big vegetable buyer; vegetables, big business for Uncle Sam. Mkt. Growers J. 80:10-12. Jan.1951. 6 M34  
Supplying the Armed Forces with vegetables.
- 32216 LOOSE, H. Bedeutung und organisation der südtiroler obsterzeugergesellschaften. Obstbau 70:5-6. Jan.1,1951. 80 Ob73
- 32217 LUMBRA, T. G. Better trucks for better trade. United Fresh Fruit & Veg. Assoc. Annu. Conv. 46:131-132. 1950. 280.3939 Un3
- 32218 LUTZ, J. M. Cut transit potato losses from [Red River] Valley. Val. Farmer 1(11):8-9,12. Feb. 1950. 6 V244
- 32219 MORRISON, W. W. Preparing strawberries for market. U. S. D. A. Farmers' B. 1560, rev., 16 p. July 1950. 1 Ag84F
- 32220 NORBURY, C. P. The Apple Marketing Scheme. Fruitation 1950:5,7. Dec.1950. 286.83 F949  
Great Britain.
- 32221 PALMER, C. N. Enough paper to cover fifteen city blocks. United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:160-161. 1951. 280.3939 Un3  
Fruit and vegetable advertising.
- 32222 RAINS, A. T. Highlights of a high undertaking. United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:34-36. 1951. 280.3939 Un3  
Public relations in the United Fresh Fruit and Vegetable Association.
- 32223 REBOUR, H. Flanerie sur les marchés. Fruits et Primeurs de l'Afrique du Nord. Éd. Marocaine 20:396. Dec.1950. 80 F9482
- 32224 RENK, O. Zur schiedsgerichtsordnung der kartoffelwirtschaft. Kartoffelwirtschaft 3:459-460. Nov.24,1950. 286.83 K14  
Germany.
- 32225 RIES, A. T. Broker's sales service provides economy and efficiency. United Fresh Fruit & Veg. Assoc. Annu. Conv. 46:172-174. 1950. 280.3939 Un3
- 32226 RIES, A. T. Caution! Men at work! United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:198-199. 1951. 280.3939 Un3  
Work of the produce broker.
- 32227 RYALL, A. L., and others. A comparison of transit protective services for Bartlett pears during the early part of the shipping season. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 232, 8 p. Oct.15, 1950. 1.9 P772Ht  
J. R. Clements, W. A. Radspinner, F. W. Allen, and R. W. Harris, joint authors.
- 32228 SANTA PAULA CITRUS FRUIT ASSOCIATION. Forty-fourth annual report, October 31, 1950. Santa Paula, 1950. 11 p. 280.2939 Sa5
- 32229 SAURMAN, A. V. Florida Citrus Mutual, organizations and objectives. 1. Citrus Mag. 13(6):20-21. Feb.1951. 80 C498
- 32230 SAVILLE, G. Transport developments; road haulage and the fruit trade. Fruit, Flower & Veg. Trades' J. 98(27):14. Dec.30,1950. 80 F946  
Great Britain.
- 32231 SEALS, D. Transportation, a national problem. United Fresh Fruit & Veg. Assoc. Annu. Conv. 46:186-191. 1950. 280.3939 Un3
- 32232 SEALS, D. Transportation: the national picture. United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:216-223. 1951. 280.3939 Un3  
Fruit and vegetables.
- 32233 SEELIG, R. Somebody's listening. United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:92-94. 1951. 280.3939 Un3  
Public relations program of the United Fresh Fruit and Vegetable Association.
- 32234 SEELIG, R. United's voice carries far; a summary of the year's publicity work. United Fresh Fruit & Veg. Assoc. Annu. Conv. 46:58-60. 1950. 280.3939 Un3
- 32235 SMITH, S. R. Get them on the table. United Fresh Fruit & Veg. Assoc. Annu. Conv. 46:145-146. 1950. 280.3939 Un3
- 32236 TEST, R. J. Truck transportation. Fruit & Veg. Rev. 12(10):14. Jan.1951. 80 C1224
- 32237 THOMSON, A. G. Wastage of vegetables during distribution. World Crops 3:75-76. Feb.1951. 281.8 W892
- 32238 U. S. PRODUCTION AND MARKETING ADMIN. Problems and practices in marketing Norfolk spinach, kale, and collards. Washington, 1950. 35 p. 1.956 F94P942
- 32239 WESTERMANN, W. Ein ende dem kartoffelkrieg! Kartoffelwirtschaft 3:467-468. Dec.1,1950. 286.83 K14  
Marketing in Germany.
- 32240 WILCOX, R. W. Problems encountered in conducting research on methods of improving quality of product. West. Farm Econ. Assoc. Proc. 23:27-30. 1950. 280.9 W527P  
Based on experience in potato marketing research.
- 32241 ZWEEDE, A. K. Les possibilités de vente de "jus de pommes" selon les circonstances néerlandaises. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):536. 1950. 388 C765

#### Grading, Inspection, Standardization, and Quality

- 32242 BAHR, A. Neufassung der kartoffel-geschäftsbedingungen. Kartoffelbau 1:70-71. Aug.1950. 75.8 K145
- 32243 BEDOUKIAN, P. Z. Aromatic constituents of fruit flavours. Perfumery & Essential Oil Rec. 41:445-448. Ref. Dec.1950. 308.8 P41
- 32244 CLARKE, B. W. A discussion of PMA grades for tomato products. Canning Trade 73(28):9. Jan.29, 1951. 286.83 T67
- 32245 COUDEN, H. N. American Fruit Growers appraises its quality procurement program. Quick Frozen Foods/13(7):43-44,51-52. Feb.1951. 389.8 Q4  
Frozen products.
- 32246 JOUGAN, E. Le role des traitements et des fumures dans la conservation des fruits. Monit. Agr. 3(141/142):22. Dec.24/31,1950. 14 M744
- 32247 KESTERSON, J. W., STEARNS, C. R., JR., and HENDRICKSON, R. Studies on citrus by-products prepared from fruit sprayed with parathion. Citrus Mag. 13(6):36-37. Feb.1951. 80 C498
- 32248 NAVELLIER, E. La maturité des ananas et le réfractomètre à main. Fruits d'Outre Mer 5:412-416. Dec.1950. 80 F9492
- 32249 SCHMIDT, H. Mehr und besser sortieren! Gartenjahr 5:118-119. Aug.1950. 80 G1932  
Fruit.
- 32250 SCHÖBER, K. Sortieren und verladen von saatkartoffeln. Landwirtschaft 1950:294-295. Oct.1950. 19 L235
- 32251 STRASBURGER, L. V. Revised lima bean grades. Canning Trade 73(30):6. Feb.12,1951. 286.83 T67
- 32252 U. S. PRODUCTION AND MARKETING ADMIN. The inspection of unshelled pecans under the pecan marketing order. Washington, 1950. 18 p. 1.956 F94In742
- 32253 ZIMMER, S. J. Apple grading and packing; do we need a new approach? Fruit-Grower 2872:60-61. Jan.11,1951. 80 F941

#### Packing and Packaging

- 32254 BARNES, R. W. The development of shipping containers is a continuous research problem. United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:138-139. 1951. 280.3939 Un3  
For fruit and vegetables.
- 32255 CARLSEN, E. W., and STOKES, D. R. Pre-packaging apples at point of production. U. S. D. A. Agr. Inform. B. 29,52 p. Jan.1951. 1 Ag84Ab



32256 JANDT, C. H. Recent developments in wire-bound containers for fresh fruits and vegetables. *Forest Prod. Res. Soc. Proc.* 4:71-76. 1950. 99.9 F7662P

32257 MYERS, E. C. Tests of strapped and light-weight lettuce crates. *Forest Prod. Res. Soc. Proc.* 4: 83-90. 1950. 99.9 F7662P  
Includes discussion.

32258 PACKARD, C. L. More about pre-packaging. *Appleland News* 15, i.e. 16:30-31. Jan. 1951. 80 Ap53

32259 PIPER, A. Full use of standard returnable lettuce and cauliflower crates. *Gt. Brit. Min. Agr. Agriculture* 57:481-483. Jan. 1951. 10 G79J

32260 STOKES, D. R. Reviewing the year's packaging. *Fruit & Veg. Rev.* 12(10):16-17. Jan. 1951. 80 C1224

32261 WAGNER, F. Soft fruit packing, small grower's problem. *Fruit-Grower* 2875:185-186. Feb. 1, 1951. 80 F941

32262 WEBB, R. Well, what are we going to do? *Fruit-Grower* 2872:58-59. Jan. 11, 1951. 80 F941  
Need for wood for non-returnable containers.

### Prices, Price Control, and Rationing

32263 ANGIER, H. The grower and price controls; "we must maintain a free economy." *West. Fruit Grower* 4(12):21-22. Dec. 1950. 95.8 G762

32264 U. S. BUR. OF AGRICULTURAL ECONOMICS. Grove-to-retail margins for Florida Valencia oranges marketed in fresh form in selected cities, 1940-48, by W. C. Lilieholm. Washington, 1950. 22 p. 1.941 F3G91

### Processing and Storage

32265 ALMEIDA, J. R. DE., and VALSECCHI, O. Fermentation of the jambolan [Syzygium cumini]. XII. (In Portuguese.) *Brasil Açucareiro* 36:103-105. July 1950. 65.8 B73

32266 ALMEIDA, J. R. DE., and VALSECCHI, O. Fermentation of the Marmaladebox genip. (In Portuguese.) *Bras. Açucareiro* 36:232-234. Aug. 1950. 65.8 B73

32267 ANJOU, K. The problem of home storage. (In Swedish.) *Sveriges Pomol. För. Fruktodlaren* 1950:190-191. 86 Sv2F

32268 BARON, C. La conservation des fruits. *Fruit Belge* 18:185-187. Dec. 1950. 80 F9493

32269 BENZ, R. G. Frozen apple juice concentrate problems and possibilities. *Appleland News* 14(11):8-12, 14. Nov. 1950. 80 Ap53

32270 BINS, F. Meine erfahrungen und erfolge mit lagerobst. *Gartenjahr* 5:184. Dec. 1950. 80 G1932

32271 BRUIN, A. DE. Storage of seed potatoes and disinfection against Rhizoctonia. (In Dutch.) *Zeeuwisch Landtbl.* 39(2049):10. Dec. 16, 1950. 12 Z2

32272 CASTBERG, C. The storage contest of the Swedish Pomological Society 1949-1950. (In Swedish.) *Sveriges Pomol. För. Fruktodlaren* 1950:176-180. 86 Sv2F

32273 CHAMBARD, P., and ABADIE, F. Essais d'adoucissement du chataignier. B. de l'Assoc. Franç. des Chim. des Indus. du Cuir et Doc. Sci. et Tech. des Indus. du Cuir 12:211-220. Nov./Dec. 1950. 303.8 B87

32274 COETZEE, W. H. K., HUGO, J. F. DU T., and PRATT, F. F. The Mexican hawthorn [Crateagus pubescens]: an investigation of its possibilities for the processing industry. *Farming So. Africa* 25:361-362. Nov. 1950. 24 So842

32275 COSENTINO, S. First step toward the creation of Fruit and Vegetable Centrals. (In Italian.) *Cam. di Com. Indus. e Agr. Bari. B. (n.s.)* 34(10):6-7. Oct. 1950. 287 B232

Centers for processing fruit for export.

32276 COUDERC, V. Industrialisation de la pomme de terre. *Terre d'Oc* 32:559-560. Dec. 1950. 14 Ar5

Processing.

32277 CRUESS, W. V., GIBSON, A., and BREKKE, J. Avocado products experiments. 2. *Canner* 112(3):14, 16, 20. Ref. Jan. 20, 1951. 286.83 C16

Processing.

32278 DEVAUX, L. Le froid au secours de fruit: développement des chambres frigorifiques dans la Vallée du Rhône. *B. des Engrais* 325:171-174. Nov. 1950. 57.8 B87

32279 DINGERDISSEN. Die Überwinterung der pflanzkartoffeln. *Landwirtsbl. Weser-Ems* 97:902. Oct. 26, 1950. 18 L2345

32280 DYR, J. The significance of the high-class raw-materials for the fruit refineries. (In Czech.) *Ceskoslov. Akad. Zeměděl. Věst.* 24:497-498. Nov. 1950. 19.5 C332

32281 ETCHELLS, J. L., and JONES, I. D. The importance of care in the pasteurization of pickle products. *Canner* 112(5):28-29. Feb. 3, 1951. 286.83 C16

32282 FIDLER, J. C. La maturation des fruits et leur conservation en fruitier. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):554-555. 1950. 388 C765

32283 GERLACH, M. Be- und verarbeitung von kartoffeln - gestern, heute und morgen. *Kartoffelbau* 1: 87-88. (To be cont.) Sept. 1950. 75.8 K145

32284 GRONERT, A. Gesicherte kartoffelaufbewahrung in lagerräumen. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1596. Nov. 16, 1950. 18 L2346

32285 HOLMBERG, C. B. Solution of the storage problem—a matter of life and death to Swedish fruit growing. (In Swedish.) *Mjölpropagandan* 27:178-180. June/July 1950. 44.8 M692

32286 HOPKINS, F. R., and WALKER, C. K. Newest citrus juice plant features special layout, advanced processing technics. *Food Indus.* 23:67-74. Jan. 1951. 389.8 F737

32287 IBRAHIM SHAH, S. Tips to house-wives for the preparation and preservation of citrus juices and squashes. *Co-op. & Mktg. Rev.* 4:317-320. Oct. 1950. 280.28 C78243

32288 JANSSEN. Ueber temperaturverhältnisse in kartoffelmleten. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A:1628. Nov. 23, 1950. 18 L2346

32289 KAC, V. The preservation of fruit and vegetables as a component of agrotechnology. (In Czech.) *Ceskoslov. Akad. Zeměděl. Věst.* 24:483-488. Nov. 1950. 19.5 C332

32290 KAUFMAN, V. F., NIMMO, C. C., and WALKER, L. H. Frozen apple juice concentrate. *Canad. Food Indus.* 22(2):16-18. Feb. 1951. 286.83 C166

32291 KESSLER, H. Obstsortenproblem und lagerungstechnik. *Schweiz. Z. f. Obst- u. Weinbau* 60:7-9, 29-35. Jan. 13-27, 1951. 80 Sch9

32292 KJELLANDER, E. Potato storage experiments. (In Swedish.) *Mjölpropagandan* 27:228-231. Sept. 1950. 44.8 M692

32293 KUTTER, F. Sur la fabrication et l'utilisation des concentrés de jus de fruits. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):535. 1950. 388 C765

32294 LECRENIER, A., and DERMINE, E. La maturation des fruits et leur conservation en fruitier. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):554. 1950. 388 C765

32295 LOMBARDO, U. The preservation of fruit by refrigeration and freezing. (In Italian.) *Italia Agr.* 87: 726-734. Dec. 1950. 16 It1

32296 MANGAN, J. L. A method for the analysis of mixtures of inorganic sulphur compounds. *New Zeal. J. Sci. & Technol. B, Gen. Res. Sect.* 30:323-333. May 1949. 514 N48B

Used in the storage of dehydrated vegetables.

32297 MILLER, I. C. They improved their processing 8 ways. *Food Indus.* 23:86-88, 188, 190. Jan. 1951. 389.8 F737

Vegetables.

32298 MONOT, G. Essais de dégermages. *Pomme de Terre Franç.* 14(136):17-18. Jan. 1951. 75.8 P77

32299 MOORE, E. L., HUGGART, R. L., and HILL, E. C. Storage changes in frozen concentrated citrus juices. Preliminary report. *Citrus Indus.* 32(2):9-13. Feb. 1951. 80 C49

32300 NICHOLAS, J. E., and PERRY, J. S. Basic behavior at freezing and thawing of six foods. *Agr. Engin.* 32:102-105. Feb. 1951. 58.8 Ag83

Fresh fruits and vegetables.

32301 PAYNE, M. G., and others. The effect of storage on color and sprouting of Red McClure potatoes after 2,4-D treatment. *Amer. Potato J.* 28:455-464. Ref. Jan. 1951. 75.8 P842

J. L. Fuels, R. Hay, N. Landblom, and L. A. Schaal, joint authors.

32302 PENNISI, L. Improvements in the manufacture of citric acid with particular reference to the use of ion-exchangers. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 4: 1085-1097. 1950. 16 An76

English summary.

32303 PIROVANO, A. Les jus concentrés de raisin pour boisson. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):537. 1950. 388 C765

Processing.



- 32304 RAGSDALE, S. Reducing costs the SWD way; a summary of warehousing research work. United Fresh Fruit & Veg. Assoc. Annu. Conv. 46:138-140. 1950. 280.3939 Un3
- 32305 RAGSDALE, S. What's wrong with warehousing? And what is United [Merchandising Institute] doing about it? United Fresh Fruit & Veg. Assoc. Annu. Conv. 47:182-185. 1951. 280.3939 Un3
- 32306 RAUCH, G. H. Jam manufacture. London, Hill, 1950. 201 p. 389.3 R19
- 32307 REGER, M. Garden for your freezer. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:105-107. Jan. 1951. 275.28 I094
- Vegetable varieties adapted to freezing.
- 32308 ROSA, M. DE. Care and sterilization of chestnuts according to the methods used in the Province of Avellino. (In Italian.) Gior. di Agr. 60:355. Nov. 12, 1950. 16 K1G
- 32309 SCANDURA, C., and PENNISI, L. Direct crystallization of citric acid from lemon juice. (In Italian.) Ann. della Sper. Agr. (n.s.) 4:1079-1083. 1950. 16 An76
- English summary.
- 32310 SCHMIDT, H. Obsteinlagerung in erdmieten. Gartenjahr 5:166. Nov. 1950. 80 G1932
- Germany.
- 32311 SCHÖBER, K. Verhütung von lagerverlusten bei kartoffeln. Landwirtschaft 1950:291-292. Oct. 1950. 19 L235
- 32312 SEMBACH, E. Mehr obst auch im bauernhaushalt! Kärntner Bauer 100:440. Dec. 1, 1950. 19 K14
- Storage and nutritive value of apples.
- 32313 SHARP, P. F. The university's role in co-operating with the canning industry. Calif. Fruit News 123(3266):5,9-10. Feb. 10, 1951. 80 C12
- 32314 SINGLETON, G. Bean varieties for freezing. Quick Frozen Foods 13(6):51-53. Jan. 1951. 389.8 Q4
- 32315 STEVENS, H. B., and FENTON, F. Dielectric vs. stewpan cookery; comparison of palatability and vitamin retention in frozen peas. Amer. Dietet. Assoc. J. 32-35. Jan. 1951. 389.8 Am34
- 32316 TAVERNIER, J. Fabrication familiale du jus de pommes. Reconstruire 233:3. Dec. 29, 1950. 14 R24
- 32317 TAVERNIER, J. Le pommier à cidre et la cidrerie en Grande-Bretagne. France. Min. de l'Agr. B. Tech. d'Inform. 54:699-706. Nov. 1950. 14 F844B
- 32318 ULRICH, R. Les accidents de l'entreposage frigorifique des fruits enregistrés à la station du froid de Bellevue. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):557. 1950. 388 C765
- 32319 ULRICH, R. Le dégagement d'éthylène par les fruits. Fruits d'Outre Mer 5:359-364. Ref. Nov. 1950. 80 F9492
- 32320 U. S. PRODUCTION AND MARKETING ADMIN. Dry edible beans: acreage, yield, and production, United States. Washington, 1950. 2 p. 1.956 G76D843
- 32321 VIGNOLI, L., and CRISTAU, B. Le garl, produit alimentaire préparé à partir du manioc; analogies et différences avec le tapioca. Marseille. Inst. Colon. Cahiers Colon. (n.s.) 1950:303-308. Oct. 1950. 286.8 M35
- 32322 WANGERIN, A. Verwertung nicht lagerfähiger kartoffeln. Kartoffelbau 1:85-86. Sept. 1950. 75.8 K145
- 32323 WILLIAMS, E. W. Florida concentrators anticipate 25 per cent increase in 1951. Quick Frozen Foods 13(6):35-38, 71. Jan. 1951. 389.8 Q4
- Orange juice concentrates.

## Statistics

- 32324 CONNECTICUT. DEPT. OF FARMS AND MARKETS. DIV. OF MARKETS. Connecticut vegetable acreages 1948-1949-1950. Conn. Dept. Farms & Mkt. B. 117, 14 p. Dec. 1950. 2 C76B
- 32325 HARTARD EBERT, M. Nuestras siembras y cosechas de arvejas. Campesino [Santiago] 82(11):103. Nov. 1950. 9.3 S012
- Statistics for Chile.
- 32326 HARTARD EBERT, M. Siembras y cosechas de garbanzos. Campesino [Santiago] 82(12):29. Dec. 1950. 9.3 S012
- Statistics for Chile.
- 32327 U. S. BUR. OF AGRICULTURAL ECONOMICS. Apples: usual time of bloom and harvest by States, commercial areas, and varieties, by C. D. Palmer and E. O. Schlotzhauer. Washington, 1950. 11 p. 1.941 H2Ap52
- 32328 U. S. BUR. OF AGRICULTURAL ECONOMICS. January 1, 1951 merchantable potato stocks largest of record. Washington, 1951. 4 p. 1.941 S8P85
- 32329 U. S. BUR. OF AGRICULTURAL ECONOMICS. Merchantable potato stocks report, Jan. 1, 1951. Fargo, 1951. 2 p. 1.941 H8P84
- 32330 U. S. BUR. OF AGRICULTURAL ECONOMICS. Production, farm disposition and value principal fruits and tree nuts, 1949 and 1950 seasons. Washington, 1951. 22 p. 1.941 H8F942
- 32331 VOGT, W. Die kartoffelanerkennungsflächen 1950 in Hannover. Kartoffelwirtschaft 3:470. Dec. 1, 1950. 286.83 K14
- Varieties.
- 32332 WIRTH. Die hack- und ölfrucnernte in Württemberg-Baden. Statist. Monatsh. Württemberg-Baden 4:334-336. Oct. 1950. 265 St24
- Statistics.
- 32333 WIRTH. Die obstversorgung in Württemberg-Baden. Statist. Monatsh. Württemberg-Baden 4:332-334. Oct. 1950. 265 St24
- Statistics.
- 32334 WIRTH. Der produktionswert der württemberg-badischen obsternte 1950. Statist. Monatsh. Württemberg-Baden 4:371-372. Nov. 1950. 265 St24
- Statistics.
- 32335 ZWICKY, P. Die obligatorische weinerntedeklaration 1950. Schweiz. Z. f. Obst- u. Weinbau 60:12-14. Jan. 13, 1951. 80 Sch9
- Switzerland.

## GRAIN AND GRAIN PRODUCTS

- 32336 ALBERTA WHEAT POOL. Annual report, 1949-1950. Calgary, 1950. 83 p. 280.39 AL12
- 32337 ALTROGGE, L. Des expériences et des tendances concernant le développement du conditionnement des cereales. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):540-541. 1950. 388 C765
- 32338 AMOS, A. J. The milling industry: progress in 1950. Food Mfr. 26:19-22. Jan. 1, 1951. 389.8 F736
- Great Britain.
- 32339 ARONOVSKY, S. I. La fabrication de cellulose de paille de blé. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):569. 1950. 388 C765
- For pulp and paper manufacture.
- 32340 ASSOCIATION NATIONALE DE LA MEUNERIE FRANÇAISE. Caractéristiques d'un blé "sain, loyal et marchand." Meun. Franç. 52:32-35. Nov. 1950. 298.8 M57
- 32341 BAETSLE, R. Etude des méthodes de détermination rapide de l'humidité des cereales et des farines. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):541-542. 1950. 388 C765
- 32342 BALDWIN, A. R., and SNIEGOWSKI, M. S. Fatty acid compositions of lipids from corn and grain sorghum kernels. Amer. Oil Chem. Soc. J. 28:24-27. Ref. Jan. 1951. 307.8 J82
- 32343 BAUMGARTNER, W. Der auflöser in der kleinemühle. Müllererei 3:847-848. Dec. 16, 1950. 298.8 M91
- 32344 BAUMGARTNER, W. Für den mühlenbauer. Müllererei 3:793. Nov. 25, 1950. 298.8 M91
- Equipment.
- 32345 BAVLI, H. A lesson from the results of cereal growing in 1949/50. (In Hebrew.) Hassadeh 30:671-672. Sept. 1950. 26 H27
- 32346 BECHTEL, W. G. Examination of starch dispersions with the phase microscope. Cereal Chem. 28:29-39. Ref. Jan. 1951. 59.8 C33
- Corn starch.
- 32347 BENNION, E. Malt products in the bakery. Bakers' Natl. Assoc. Rev. 68:153-154. Feb. 2, 1951. 389.8 N214
- 32348 BERLINER, E. Kleberreich—aber viel wanzenweizen! Ein überblick über die beschaffenheit der westdeutschen weizenerte 1950. Müllererei 3:726-728. Nov. 4, 1950. 298.8 M91
- 32349 BIRD, L. H. A note on the adsorption of quinoline from fluorimetric standard solutions. New Zeal. J. Sci. & Technol. B, Gen. Res. Sect. 30:334-335. May 1949. 514 N48B
- Fluorimetric solution used in testing wheat.
- 32350 BISERTE, G., and SCRIBAN, R. Les protides de l'orge et du malt. Petit J. du Brasseur 59(2326):6-9. Ref. Jan. 5, 1951. 390.8 P44



- 32351 BÖSENBERG, K. Aspirationsanlagen in kleinformmühlen. *Müllerei* 3:871-873. Dec.23,1950. 298.8 M91
- 32352 BOURDET, A., and GUILLEMET, R. Préparation d'un complexe peroxyde du calcium et son action sur le gluten de la farine de blé. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):539. 1950. 388 C765
- 32353 BRÜCKNER, G. Notions nouvelles pour l'examen des farines relativement à leur degré de mouture. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):541. 1950. 388 C765
- 32354 CAMPO, S. DEL. Los precios del trigo excedente no suben—ni bajan. *Aliment. Nac.* 10(179):2. Nov.10,1950. 389.8 AL42
- Spain.
- 32355 CANADA. BOARD OF GRAIN COMMISSIONERS. STATISTICS BR. Grain trade of Canada 1948-49. Ottawa, 1950. 145 p. 59.9 C164
- Agriculture Division of the Bureau of Statistics collaborating.
- 32356 CANADA. GRAIN RESEARCH LABORATORY. The quality of western Canadian barley 1950 crop. Canada. Grain Res. Lab. Crop B. 39,24 p. Nov.1950. 59.9 C161Qu
- 32357 CASA PACHECO, MARQUES DE. España es un país cerealista? *Cult. Mod.* 33:369-370. Oct.1950. 15 C89
- 32358 CAVELLINI, O. Collective action; organization and results of the voluntary grain pool. (In Italian.) *Avvenire Agr.* 58:308-310. Dec.1950. 16 Av9
- Italy.
- 32359 COJUANGCO, J. The past and future of the Philippine rice industry. *Sugar News* 26:596-598. Oct.1950. 65.8 Su36
- 32360 COULBORN, A. E. Henry Simon—ein gebürtiger deutscher. *Müllerei* 3:764,766. (To be cont.) Nov.18, 1950. 298.8 M91
- German milling industry.
- 32361 COURNIER, M. J. Organisation en France d'une enquête sur l'activité de l'industrie meunière et présentation de quelques tableaux statistiques tirés de cette enquête. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):572. 1950. 388 C765
- 32362 CREWE, J., and JONES, C. R. The thickness of wheat bran. *Cereal Chem.* 28:40-49. Jan.1951. 59.8 C33
- 32363 DAS, R. Improving the marketing of cereals in India. *Agr. & Anim. Husb.* 1(3):74-77. Apr./Aug.1950. 22 Ag86
- 32364 DELEAU, J. Il est possible d'organiser un marché européen des céréales. *Reconstruire* 233:1-2. Dec.29,1950. 14 R24
- 32365 DESCHREIDER, A. R. Teneur en phosphore du blé et étude sur des suspensions de farine. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):542. 1950. 388 C765
- 32366 DIETZ, R. Gehört dem papiersack die Zukunft? *Müllerei* 3:848-849. Dec.16,1950. 298.8 M91
- For flour.
- 32367 DINZL, J. Die österreichischen braugersten der ernte 1950. *Pflug* 3:230-234. Nov.1950. 19 P48
- Analysis and composition.
- 32368 ECKARDT, C. Weg und ziel der Deutschen Müllerschule Dippoldswalde seit 1945. *Müllerei* 3:776-778. Nov.18,1950. 298.8 M91
- 32369 EICHINGER, J. Die getreideernte 1950. Bayern in Zahlen 4:591-592. Dec.1950. 265 B34
- 32370 FREUDEWALD, W. Ein bemerkenswerter mühlenantrieb. *Müllerei* 3:876-877. Dec.23,1950. 298.8 M91
- 32371 FRITSCH, E. Der getreidekeimling in seiner eigenschaft als aktivator bei der müllerschen vorbereitung. *Müllerei* 3:733-734. Nov.11,1950. 298.8 M91
- 32372 GAUSS, W. Existenzgrundlagen der württembergischen handelsmühlen. II. *Müllerei* 3:746-747. Nov.11,1950. 298.8 M91
- 32373 GEHLE, H. Pioniere des mühlenbaues. *Müllerei* 3:756-758,761-762. Nov.18,1950. 298.8 M91
- 32374 GOODMAN, J. J. Lipolytic activity of certain fungi important in grain deterioration. (Abs.) *Phytopathology* 41:14. Jan.1951. 464.8 P56
- 32375 GÖPP, Aufgaben des deutschen braugerstenbaues. *Ernährungsdienst* 5(140):4. Dec.7,1950. 389.8 Er62
- 32376 GRAY, W. D. Milling's golden era. *Nowest. Miller* 245(2):3a-6a;(7):6a-9a,11a. Jan.9, Feb.13, 1951. 298.8 N81
- Equipment.
- 32377 GREER, E. M. Une observation concernant le séchage du grain récolte par moissonneuse-batteuse combinée. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):538. 1950. 388 C765
- 32378 GREER, E. N., and others. The occurrence of endosperm cells in wheat flour. *Cereal Chem.* 28:58-67. Jan.1951. 59.8 C33
- J. J. C. Hinton, C. R. Jones, and N. L. Kent, joint authors.
- 32379 GUILBOT, A. Conditions auxquelles doit répondre toute méthode de référence de dosage de l'eau; étude critique des techniques actuellement utilisées pour les céréales. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):540. 1950. 388 C765
- 32380 GUILBOT, A. Hygiène des fabrications alimentaires à base de céréales aux Etats-Unis; méthodes de contrôle utilisées; point de vue européen sur cette question. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):539. 1950. 388 C765
- 32381 HAFNER, R. Fortschrittliche flachriementriebe in der müllerei. *Müllerei* 3:736-737. (To be cont.) Nov.11,1950. 298.8 M91
- 32382 HALTMEIER, O. Jacques Baumann—ein pionier des deutschen mühlenbaues. *Müllerei* 3:762, 764. Nov.18,1950. 298.8 M91
- 32383 HALTMEIER, O. Neueste erkenntnisse der wissenschaftlichen müllerei. *Müllerei* 3:890-891. Dec.30,1950. 298.8 M91
- 32384 HITES, B. D., SANDSTEDT, R. M., and SCHAUMBURG, L. Study of proteolytic activity in wheat flour doughs and suspensions. II. A papain inhibitor in flour. *Cereal Chem.* 28:1-18. Ref. Jan.1951. 59.8 C33
- 32385 HOLLENBECK, C. M., and REEDER, W. Autolysis of flour as an index to alpha-amylase activity. *Cereal Chem.* 28:67-71. Jan.1951. 59.8 C33
- 32386 HOPF, L. Gründe der längsspaltung beim I. reizenschrot. *Müllerei* 3:735-736. Nov.11,1950. 98.8 M91
- 32387 HOPF, L. Die halbfeuchte schälung. *Müllerei* 3:861-863. Dec.23,1950. 298.8 M91
- 32388 HOPF, L. Neuerungen am trieur. *Müllerei* 3:809. Dec.2,1950. 298.8 M91
- 32389 HOPF, L. Ein neues niederdrucksystem der mühlenpneumatik. *Müllerei* 3:717-718. Nov.4,1950. 298.8 M91
- 32390 HOPF, L. Die pneumatische reinigungsanlage. *Müllerei* 3:892-894. Dec.30,1950. 298.8 M91
- 32391 HOPF, L. Verschiedene konstruktionen von putzkästen. *Müllerei* 3:827-828. Dec.9,1950. 298.8 M91
- 32392 HOPF, L. Von der ersten zur zweiten jahrhunderthalfte. *Müllerei* 3:889-890. Dec.30,1950. 298.8 M91
- 32393 HOPF, L. Der vorteil der automatischen mehllwaage für den halbautomatischen betrieb. *Müllerei* 3:813-814. Dec.2,1950. 298.8 M91
- 32394 HOPF, L. Der walzenstuhl für die vollautomatische kleinemühle. *Müllerei* 3:767-769. Nov.18,1950. 298.8 M91
- 32395 IVES, N. C. Graneros para la América Tropical. *Asoc. Gen. de Agr. B.* 284:5-6. Dec.15,1950. 8 As52
- 32396 JURGENS, J. F., and HOFFPAUIR, C. L. Lipide content of rice bran. *Amer. Oil Chem. Soc. J.* 28:23-24. Jan.1951. 307.8 J82
- 32397 KAPP, M. Specification des farines pour biscuiterie. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):540. 1950. 388 C765
- 32398 KLEBER, W., and LEHMANN, E. Malze aus gersten des jahrgangs 1950. *Brauwelt* 1951.63: Jan.25, 1951. 390.8 B732
- Composition.
- 32399 KLIMMEK, H. Der 50-kilogramm-papiersack in der praxis. *Müllerei* 3:828-829. Dec.9,1950. 298.8 M91
- For flour.
- 32400 KOLBACH, M. G. Die kontingentierung in der Schweiz. *Müllerei* 3:854. Dec.16,1950. 298.8 M91
- Flour milling quotas.
- 32401 KÖLBACH, W. G. Die brotgetreideversorgung der Schweiz. *Müllerei* 3:838. Dec.9,1950. 298.8 M91



- 32402 KOOPMAN, C. The growing of corn in comparison with other grains. II. (In Dutch.) Overijsselsch Landtbl. 33(1587):5. Jan.13,1951. 12 Ov2  
Yields and costs.
- 32403 KRETOVICH, V. L., and TOKAREVA, R. R. On hydroxymethylfuraldehyde content in bread and in malt. (In Russian.) Akad. Nauk SSSR. Dok. 74:533-535. Sept.21,1950. 511 P444A
- 32404 LANG, F. Neukonstruktionen im mühlenbau seit einföhrung der pneumatik. Müllerei 3:783-784. Nov.18,1950. 298.8 M91
- 32405 LUTZ, R. Die wiederaufgebaute getreideanlage Bremen. Müllerei 3:812. Dec.2,1950. 298.8 M91
- 32406 MCCULLOUGH, W. B. Argentina expects large yield from current wheat sowings. Foreign Trade 9:12-14. Jan.6,1951. 286.8 C162
- 32407 MALMKE, G. Untersuchungen zur festsetzung des lagerschwundes bei kleinpäckungsmehl. Müllerei 3:825-827. Dec.9,1950. 298.8 M91
- 32408 MAYER. Les facteurs de la qualité du blé. Défense Agr. de la Beauce et du Perche 47:459-461. (To be cont.) Dec.16,1950. 14 D36
- 32409 MAYER. La qualité des blés. Défense Agr. de la Beauce et du Perche 47:473-474. Dec.23,1950. 14 D36
- 32410 MILNER, M. Biological factors in damp-grain deterioration. Food Technol. 5:25-30. Ref. Jan.1951. 389.8 F7398
- 32411 NAGEL, R. Kraftbedarf der mühlenpneumatik. Müllerei 3:789-791. Nov.25,1950. 298.8 M91
- 32412 NEENAN, J. L. The degerminated corn mill and its products. Nowest. Miller 245(7):3a-6a. Feb.13, 1951. 298.8 N81
- 32413 NOELTING, G. Dosage et purification de la -amylase du malt. Genève,1950. 44 p. 390 N68
- 32414 NURET. La qualité des blés. Défense Agr. de la Beauce et du Perche 47:458-459. (Cont.) Dec.16,1950. 14 D36  
Milling and baking quality.
- 32415 PAN, S. C., ANDREASEN, A. A., and KOLACHOV, P. The role of yeast in the secondary conversion of corn mashers converted by-submerged cultures of *Aspergillus niger*. Arch. Biochem. 30:6-13. Jan.1951. 381 Ar2
- 32416 PELSHENKE, P. F. Recherches sur l'influence de la récolte par la moissonneuse-batteuse sur la qualité du blé. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):538. 1950. 388 C765
- 32417 PFRANG. Braugerstenschau Heidelberg 1950. Bad. Landwirt. Wchnbl. 117:827-829. Dec.2,1950. 18 B142  
Quality.
- 32418 PINTO SALVATIERRA, J. Conservación y fumigación de granos. Agr. Venezol. 15(146):14. Sept. 1950. 9.95 Ag8
- 32419 PLEVOETS, C. L'extrait dans l'orge. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):534-535. 1950. 388 C765
- 32420 RAGAZZI, G. Rice culture in Ferrara. (In Italian.) Agr. Ferrarese 54:66-69. Mar.31,1950. 16 Ag87  
The industry.
- 32421 RICCI, A. Considerations on the grain season, 1949-50. (In Italian.) Romagna Agr. e Zootec. 35(13):1-2. Sept.1950. 16 R66
- 32422 RICE MILLERS' ASSOCIATION. Rice production in the United States 1950. New Orleans,1950. 4 p. 59.9 R382R  
Statistics.
- 32423 ROSBACO, U. F. Conservación del maíz con chala. IDIA; Inform. de Invest. Agr. 3(35/36):32. Nov./Dec.1950. 9 Id3
- 32424 RUPPERT, A. Noch einmal gersten der ernte 1950. Brauwelt 1951:63-64. Jan.25,1951. 390.8 B732  
Composition in Germany.
- 32425 SCHAIBLE. Ist für den mühlenbauer eine fachschulausbildung zweckmässig? Müllerei 3:773-774. Nov.18,1950. 298.8 M91  
Germany.
- 32426 SCHMORL, K. Botanische und physikal.-chemische untersuchungen der gerstenschale im vergleich zu weizen und rogen. Müllerei 3:683-684. Oct.21,1950. 298.8 M91
- 32427 SEEMANN, P. Ein weg zur kenntlichmachung der backmehle. Müllerei 3:849-850. Dec.16,1950. 298.8 M91
- 32428 SMITH, C. S. Mr. Jones the mill. Farmers Wk. [London] 33(25):34-37. Dec.22,1950. 10 F2226  
Operations of a watermill in Wales.
- 32429 SOUTH DAKOTA. STATE COLLEGE OF AGRICULTURE. EXTENSION SERV. Handling, storing and feeding soft corn. S. Dak. State Col. Agr. Ext. L. 132,2 p. Oct.1950. 275.29 So85E
- 32430 SOUZA, A. O. DE. Domestic rice in the face of world scarcity. (In Portuguese.) Lav. Arroz. 4(46):3-7. Oct.1950. 59.8 L39  
Brazil.
- 32431 STEPHAN, H. Prüfung der mehlqualität im rogenbackversuch. Allg. Bäcker-Ztg. 6:3. Jan.5,1951. 389.8 AL5
- 32432 STÖCKMANN, K. Die ausbildung von diplomingenleuren des mühlenwesens an der Technischen Hochschule Braunschweig. Müllerei 3:774,776. Nov.18, 1950. 298.8 M91
- 32433 TCHETVÉROUKHINE, B. École Française de Meunerie et minoteries de France. Rev. des Ferment. et des Indus. Aliment. 5:199-205. Dec.1950. 390.08 R32
- 32434 TEUNISSEN, P. H. La fabrication de cellulose de paille de blé. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):569-570. 1950. 388 C765
- 32435 ULLRICH, H. Stellungnahme zu den vorschlägen zur kennzeichnung der backmehle. Müllerei 3:894-895. (To be cont.) Dec.30,1950. 298.8 M91
- 32436 U. S. EXTENSION SERV. Grading soft red winter wheat at country points. U. S. D. A. L. 298,8 p.-folder. Dec.1950. 1 Ag84L  
Formerly AIS-33.
- 32437 U. S. PRODUCTION AND MARKETING ADMIN. Barley: acreage, yield, and production, United States. Washington,1950. 2 p. 1.956 G76B243
- 32438 U. S. PRODUCTION AND MARKETING ADMIN. Corn: 1950 commercial area, yield per planted acre (bushels): 1940 through 1949. Washington,1950? 1 p. 1.956 G76C814
- 32439 U. S. PRODUCTION AND MARKETING ADMIN. Methods and costs of producing alcohol from grain by the fungal amylase process on a commercial scale. U. S. D. A. Tech. B. 1024,38 p. Ref. Aug.1950. 1 Ag84Te  
U. S. Bureau of Agricultural and Industrial Chemistry cooperating.
- 32440 U. S. PRODUCTION AND MARKETING ADMIN. Oats: acreage, yield, and production, United States. Washington,1950. 2 p. 1.956 G76Oa82
- 32441 U. S. PRODUCTION AND MARKETING ADMIN. Rye: acreage, yield, and production, United States. Washington,1950. 2 p. 1.956 G76R982
- 32442 VALLE, R. G. DEL. Wheat and its preservation. (In Portuguese.) Gaz. do Agr. 2:214-216. Sept. 1950. 24 G25  
Storage.
- 32443 VOGEL, S. L. Thresh barley for malting carefully to get market premiums. Milwaukee, Wis., Midwest Barley Improvement Assoc.,1950. 4 p. 59.21 V86
- 32444 VOGT, R. Die müllerei zwischen liberalisierung und lenkung. Müllerei 3:891. Dec.30,1950. 298.8 M91  
Germany.
- 32445 WAKAKI, R. An economic study on American rice culture. I. The consumption of rice of European and American. (In Japanese.) Tottori Soc. Agr. Sci. Trans. 9:14-16. Dec.1949. 513 T64
- 32446 WALLIS, R. G. Les protéines d'orge solubles dans l'alcool (The alcohol-soluble proteins of barley). (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):535. 1950. 388 C765
- 32447 WEISS, F. Regelung des verkehrs mit getreide und futtermitteln. Württemb. Wchnbl. f. Landwirt. 117: 941-943. Oct.14,1950. 18 W96
- 32448 WIEGAND, K. H. Nachwuchsfragen im mühlenbau. Müllerei 3:772-773. Nov.18,1950. 298.8 M91  
Germany.
- 32449 WILLIAMS, J. Flour milling—an art or a science. Milling 115:704-707. Dec.23,1950. 298.8 M622
- 32450 WIRTH. Die strohernte in Württemberg-Baden 1950. Statis. Monatsh. Württemberg-Baden 4:372-373. Nov.1950. 265 St24  
Statistics.
- 32451 WOLF, L. Die praktische ausbildung des mühlenbauers. Müllerei 3:779-780. Nov.18,1950. 298.8 M91  
Germany.



32452 ZÁK, J. The mill-trade in the light of agrobiology. (In Czech.) Českoslov. Akad. Zeměděl. Věst. 24:489-491. Nov.1950. 19.5 C332

### HONEY AND BEESWAX

32453 ARMSTRONG, F. Price rise impossible under present set-up. Australas. Beekeeper 52:167-169. Nov.15,1950. 424.8 Au72  
Honey prices.

32454 FOSSATI, L. The sale of honey. (In Italian.) Apic. d'Italia 17:133. June 1950. 424.8 Ap372

32455 FULLER, M. T-V campaign boosts honey sales. Amer. Bee J. 91:66-68. Feb.1951. 424.8 Am3

32456 GAVRILENKO, A. Method of making honey containers. (In Russian.) Pchelovodstvo 7:400-401. Aug. 1950. 424.8 P295

32457 GOUGET, C. W. Know your market. Gleanings Bee Cult. 79:88-89,124-125. Feb.1951. 424.8 G47

32458 HAMMANT, G. The preparation of honey and beeswax for exhibition purposes. Australas. Beekeeper 52:161-162. Nov.15,1950. 424.8 Au72

32459 LEHMANN, A. Die Honigkontrolle des VDSB [Verein Deutsch-Schweizerischer Bienenfreunde] im Jahre 1950. Schweiz. Bienen-Ztg. 73:538-543. Dec.1950. 424.8 Sch9

32460 MICKWITZ, R. A handy wax press. (In Swedish.) Nord. Bitidskr. 2:103-106. 1950. 424.8 N752

32461 MUNIZ, M. Producción higiénica de miel. Uruguay. Inst. Nac. de Colon. B. 1(8,sup.):6-8. Sept.1950. 282.29 Ur8

32462 MUZZATI, G. Price support for honey in the U.S.A. (In Italian.) Apic. d'Italia 17:205-207. Oct.1950. 424.8 Ap372

32463 MUZZATI, G. Vigilance on honey. (In Italian.) Apic. d'Italia 17:167-170. July/Aug.1950. 424.8 Ap372  
Legal aspects.

32464 NEWALD, E. Noch etwas zur pflege des Honigs. Niederöstr. Imker 1:216-218. Aug.1950. 424.8 N55

32465 PALMER-JONES, T., and WHITE, E. P. A recent outbreak of honey poisoning. VII. Observations on the toxicity and toxin of the tutu (Coriaria arborea Lindsay). New Zeal. J. Sci. & Technol. A, Agr. Res. Sect. 31(2):46-56. Ref. Aug.1949. 514 N48A

32466 U. S. BUR. OF AGRICULTURAL ECONOMICS. Honey and beeswax production, 1950. Washington, 1951. 8 p. 1.941 H8H75  
Statistics.

### LIVESTOCK AND LIVESTOCK PRODUCTS

32467 ANCESCHI, L. Swine raising. (In Italian.) Avvenire Agr. 58:289-290. Dec.1950. 16 Av9  
The industry in Italy.

32468 BLACKLEY, S. R. Sheep get the best response from hill breeding areas. Farmer & Stock-Breeder 65:178-179. Jan.16,1951. 10 F228  
State of the sheep industry in Great Britain.

32469 BREIMYER, H. F. More spring pigs planned; 1950 crop tops 100 million. Agr. Situation 35:2-3. Jan. 1951. 1 Ec7Ag

32470 CLEÓFAS, J. Present aspects of the livestock depression and its relation to agriculture. (In Portuguese.) Cong. Açucareiro Nac. An. 1:229-238. 1950. 65.9 C765  
Includes discussion.

Brazil.

32471 CONWAY, H. M. Live stock policies need extra attention under war economy. Natl. Live Stock Prod. 29(4):13. Jan.1951. 280.38 N21

32472 DEGRYSE, G. Exploitation rationnelle et industrielle du porc. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):557. 1950. 388 C765  
Belgium.

32473 ECUADOR. MINISTERIO DE ECONOMÍA. Su-gestiones para un programa ganadero en el litoral del Ecuador. Manabí, Ecuador. Consorcio de Cent. Agr. B. 12(63):20-36. July/Sept.1950. 9.5 M31

32474 FORNS, J. J. Evolución de la cabaña europea. Ganadería [Madrid] 8:575-578. Sept.1950. 49 G15  
European livestock industry.

32475 GARFIELD, C. Industry building. Fur J. 17:6, 8. Nov./Dec.1950. 412.628 F969

32476 HONL. Entwicklung der fleischversorgung in Württemberg-Baden. Statist. Monatsh. Württemberg-Baden 4:368-370. Nov.1950. 265 St24  
Statistics.

32477 JARVIS, P. M. Destination—better living. Natl. Wool Grower 41:20-21,68. Jan.1951. 45.8 N21N  
Lamb meat production.

32478 JAUMES, L. La situation porcine. Bouches du Rhône Agr. 23(1040):1-2. Dec.1,1950. 14 B662

32479 KELLOGG, C. E. How the Federal Government serves the rabbit industry. Small Stock Mag. 35(2):3,10-11. Feb.1951. 48.8 P442

32480 LOS ANGELES COUNTY, CALIFORNIA. LIVE-STOCK DEPT. Twenty-sixth annual report, fiscal year ending June 30, 1950. Los Angeles, 1950. 58 p. 49.9 L89

32481 MCCUTCHEON, J. W. Tallow and its uses. Butchers' Advocate 129(4):8-10. Jan.24,1951. 286.85 B97

32482 MALAVASI, I. Livestock activities 1950. (In Italian.) Agr. Ferrarese 54:76-78. Mar.31,1950. 16 Ag87

32483 MARCOS, J. Todos los países de Europa conocen problema ganadero; España no es una excepción en este cuadro. Aliment. Nac. 10(179):4-5,14. Nov.10,1950. 389.8 AL42

32484 POLLOCK, R. C. Livestock-meat industry in retrospect. Cattleman 37(9):34,36,38,40. Feb.1951. 49 C29

32485 PUGH, E. S. The price incentive in meat production. Farmer's Wk. [Bloemfontein] 80:47. Dec.13, 1951. 24 F225

Cattle and sheep situation in South Africa.

32486 ROSS, I. Where meat is king. New Statesman & Nation 40:687-688. Dec.30,1950. 280.8 N2132  
Argentina.

32487 ROSS, M., VAN DER MERWE, J. A., and ROSS, D. Beef for the urban household; intensified production possible through improved breeding and feeding fostered by long-term price policy; calf costs under specialised ranching conditions. Farmer's Wk. [Bloemfontein] 80:10-11,13. Dec.6,1950. 24 F225  
In South Africa.

32488 ROUY, H. La production de viande aux Etats-Unis. J. de la France Agr. 6:1281. Dec.22/28,1950. 14 J829  
The industry.

32489 ROUY, H. A propos des mesures gouvernementales sur la viande. Agr. Charentais 6(2):4. Jan.31, 1951. 14 Ag825  
France.

32490 SALCINES, J. L. La piel, importante factor de la producción pecuaria. Ganadería [Madrid] 8:587-589. Sept.1950. 49 G15

32491 SHAKHSHIN, M. Livestock raisers of Kazakhstan are fulfilling their obligations. (In Russian.) Sovskizlist. Zhivotnovod. 12(8):10-13. Aug.1950. 49 So71  
Three-Year Plan for livestock development.

32492 TESTON, A. Aspects of cattle progress in Polesine. (In Italian.) Agr. del Polesine 2:177-178. Dec.1950. 16 Ag8222

32493 TOLLEY, G. Short run demand and supply in the hog market. J. Farm Econ. 32:624-643. Nov.1950. 280.8 J822

32494 TSYNKOV, M. IŮ. Development of livestock production on the consolidated collective farms. (In Russian.) Sovskizlist. Zhivotnovod. 12(8):6-9. Aug.1950. 49 So71

32495 TSYNKOV, M. IŮ. Enlargement of collective farms—the most important possibility for the advancement of public livestock production. (In Russian.) Sovet. Zootekh. 5(9):3-7. Sept.1950. 49 So822

32496 U. S. S. R. SOVET MINISTROV. O khode vypolneniia postanovleniia Soveta Ministrov SSSR i TSK VKP (b) ot 18 Aprilia 1949 goda "Trekhletni plan razvitiia obshchestvennogo kolhozno i sovkhnoznogo produktivnogo zhivotnovodstva (1949-1951 gg.)" [On progress in fulfilling the decree of the Council of Ministers of U. S. S. R. and of the Central Committee of the Communist Party of April 18, 1949 "The Three-year Plan for the development of public, collective and State farm productive livestock (1949-1951)"]. Moskva, Gos. Izd-vo Polit. Lit-ry, 1950. 28 p. 281.179 Un352Kv

32497 WATSON, W. P. A review of beef cattle prospects and policies. Shorthorn News 11(4):21-22. Dec.1950. 43.8 Sh85  
Canada.



- 32498 WIRTH, Die entwicklung der nutztierhaltung in Württemberg-Baden. Württemb. Wchnbl. f. Landwirt. 118:3. Jan.6,1951. 18 W96
- 32499 YAMADA, K. Menyo; homu span, yohi kako [Sheep; home-spun, fur manufacture]. Tokyo, Meibundo, 1950. 212 p. 45 Y1

#### Analysis and Composition

- 32500 CALLOW, E. H. Comparative studies of meat. IV. Rates of fattening in relation to the deposition of fat and protein in the fatty and muscular tissues of meat carcasses. J. Agr. Sci. [London] 40:1-8. Jan./Apr.1950. 10 J822
- 32501 JACOBSON, K. H., and LOLLAR, R. M. Wet tension testing studies as influenced by chemical modifications of collagen. Amer. Leather Chem. Assoc. J. 46: 7-19. Ref. Jan.1951. 303.9 Am32
- 32502 KREMEN, S. S., and LOLLAR, R. M. A study of the moisture relationships and thermal properties of skin and leather. Amer. Leather Chem. Assoc. J. 46:34-55. Ref. Jan.1951. 303.9 Am32
- 32503 LEDERER, E. Graisse de cheveux et graisse de laine. Indus. de la Parfumerie 5:552-554. Ref. Dec. 1950. 308.8 In2
- 32504 MANDEL, J., and MANN, C. W. A statistical solution of a problem arising in the sampling of leather. U. S. Natl. Bur. Standards. J. Res. 46:99-105. Feb.1951. 157.8 J82
- 32505 ROSSOUW, S. D. Studies on wool grease and suint. I. The refractive index of wool grease. Onderstepoort J. Vet. Sci. & Anim. Indus. 24:355-362. Apr. 1950. 41.8 On1
- 32506 STRANDINE, E. J., DEBEUKELAER, F. L., and WERNER, G. A. Stratigraphic distribution of sodium chloride and water in fresh and brined steer hide. Amer. Leather Chem. Assoc. J. 46:19-34. Jan.1951. 303.9 Am32
- Includes discussion.
- 32507 SULZBACHER, W. L., and MCLEAN, R. A. The bacterial flora of fresh pork sausage. Food Technol. 5:7-8. Jan.1951. 389.8 F7398
- 32508 ZAHN, H. Sammelreferat über histologie, feinstruktur, chemie und technologie der keratine. I-II. Leder 1:222-228,265-267. Ref. Sept.15,Nov.15,1950. 303.8 L492

#### Consumption and Utilization

- 32509 DICKINSON, T. A. Reclaiming leather dust; this tannery waste material can now be profitably converted. Leather & Shoes 121(4):14-15,46. Jan.27,1951. 303.8 H53
- 32510 NEWELL, P. F. The kind of beef people want. Shorthorn World 35(20):7-8. Jan.25,1951. 43.8 Sh8

#### Distribution, Marketing, and Transportation

- 32511 ABEL, H. Techniques and methods used in the Western Regional Livestock Marketing Project (WM-4). West. Farm Econ. Assoc. Proc. 23:89-100. 1950. 280.9 W527P
- 32512 BARCELO, D. Compraventa de animales con vicios ocultos. Balearic Isl. Diputación Prov. B. de Agr. 73:1-2. Oct.1950. 15 B19
- 32513 BRETAUD, M. La situation du marché du porc et l'activité de l'U.N.E.P. exposé à l'Assemblée générale du 12 octobre 1950. Porc 21(8):25-27. Oct.1950. 46.8 P822
- France.
- 32514 EASLY, N. L. What price Angora [rabbit wool] marketing co-operatives? Fur Trade J. Canada 28(4):66, 68,74. Dec.1950. 410 F965
- 32515 GARVEY, F. A. A successful approach to marketing. Natl. Chinchilla Breeder 6(11):11. Jan.1951. 412.628 N21
- 32516 HARRIS, J. T., and PENNY, N. M. Some economic factors relative to livestock marketing in Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 31,51 p. Oct.1950. 100 G29M
- 32517 NORTH CENTRAL LIVESTOCK MARKETING RESEARCH COMMITTEE. Frozen food lockers & home freezers in meat distribution. Wis. Agr. Expt. Sta. B. 490,63 p. Sept.1950. 100 W75
- 32518 OWENS, W. Printed advertising gets results fast! A discussion of an integral part of the livestock business. Breeder-Stockman 12(9):73-74. Feb.1951. 49 V81

- 32519 PHILLIPS, R. The sale of veal calves and veal production in West Wales (1943-6). J. Dairy Res. 17:1-21. Feb.1950. 44.8 J823
- 32520 SHAW, S. T. How the retailer serves the cattleman. Calif. Cattleman 1951:18-20. Feb.1951. 43.8 C12
- 32521 SWAFFAR, C. D. The consignment sale. Shorthorn News 11(4):26. Dec.1950. 43.8 Sh85
- Canada.
- 32522 THOMPSON, S. H. Seasonal trends in cattle marketing. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5: 87-90. Dec.1950. 275.28 Io94
- 32523 WICHITA UNION STOCK YARDS. 58th annual live stock report for year ending December 31st, 1950. Wichita,1951. folder. 49.9 W63

#### Grading, Inspection, Standardization, and Quality

- 32524 BEARD, F. J. Look for the change in beef grades. Mktg. Activ. 13(12):3-8. Dec.1950. 1.942 A8M34
- 32525 CLINE, J. A. Those new beef grades and how to prepare some of the lower grades. Amer. Restaurant Mag. 35(2):44-45. Feb.1951. 389.2538 Am3
- 32526 FURLONG, J. R. Grain-cracks in hides. Colon. Plant & Anim. Prod. 1:143-147. Apr./June 1950. 472 C71
- 32527 GRINNELLS, C. D. Livestock protected by quarantine. Carolina Farmer 6:7. Jan.1951. 6 C223
- 32528 KELLER, H., and LÄMMLER, G. Über das explosive platzen der leberserosa nach dem abtrennen bei der bakteriologischen fleischuntersuchung. Lebensmitteltierarzt 1:170-172. Nov.1950. 41.8 L49
- 32529 LIPS, H. J. Effects of heat treatment on the stability of lard. Amer. Oil Chem. Soc. J. 28:58-61. Ref. Feb.1951. 307.8 J82
- 32530 LUBRANO, U. Les peaux animales dans l'agriculture et dans l'industrie. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):550. 1950. 388 C765
- Quality.
- 32531 MCCOLLOCH, C. L. Cattle grades are changed to fit new carcass grades. Agr. Situation 35:10-11. Jan.1951. 1 Ec7Ag
- 32532 MACLENNAN, I. S. Meat inspection for British troops in Egypt. Roy. Army Vet. Corps. J. 21: 154-157. Dec.1950. 41.8 G79
- 32533 PAUL, R. A. Bacon Carcase Competition, 1949. West. Austral. Dept. Agr. J. (ser.2):27:264-268. Sept.1950. 23 W52J
- 32534 PINE, C. The convention commercial class. Small Stock Mag. 35(2):5. Feb.1951. 48.8 P442
- Rabbit meat.
- 32535 STEIN, E. Die aufnahme der ausgebreiteten tuberkulose als beanstandungsgrund in den §47 AB. A als notwendigkeit in der fleischbeschauenden beurteilung. Lebensmitteltierarzt 1:172-173. Nov.1950. 41.8 L49
- 32536 SVENSKA MEJERIERNAS RIKSFÖRENING. Penicillin treatment of cows must be reported to the dairy. (In Swedish.) Lantmannen 34:990. Dec.23,1950. 11 L234
- In relation to effects on milk and cheese.

#### Packing and Packaging

- 32537 GARNATZ, G. Technical aspects of prepackaged meat. Chicago,Amer. Meat Inst.,1950. 9 p. 50 G18

#### Prices, Price Control, and Rationing

- 32538 BULLER, L. Nebraska leads Nation in \$1,000 Hereford bulls. Nebr. Farmer 93(2):42,47. Jan.20,1951. 6 N27
- 32539 CLARKE, J. D. W. Chinchilla pelt prices. Fur Trade J. Canada 28(5):20-22. Jan.1951. 410 F965
- 32540 CONWAY, H. M. Conditions essential to achieve maximum meat production. Natl. Live Stock Prod. 29(5):4. Feb.1951. 280.38 N21
- Includes discussion of price control.
- 32541 FRENCH, H. W. Impending controls fail to dampen livestock price advances. Amer. Cattle Prod. 32 (9):16,18. Feb.1951. 49 P94
- 32542 LACEY, J. J. Why the drop in price? Hoard's Dairyman 96:140. Feb.10,1951. 44.8 H65
- Swine and pork.
- 32543 PAVIN, F. W. No dark spots in outlook for beef cattle prices in 1951. Fla. Cattleman 15(4):16. Jan. 1951. 43.8 F66



32544 PICKELL, M. W. What's ahead for hog prices? Better Farming Better Living 1950:6,13. Winter 1950. 6 B464

32545 SANDIFER, T. N. Meat controls pose problem for producers. Natl. Live Stock Prod. 29(5):11. Feb. 1951. 280.38 N21  
Price controls.

32546 TURNER, D. Cattle prices steady under light receipts. Wk. Mkt. News 29(5):5. Feb.1,1951. 286.61 G762A

Includes hogs and sheep.

#### Processing and Storage

32547 BAKER, M., PENROD, E. B., and PEDIGO, G. P. Discoloration of meat while in storage. Ky. Engin. Expt. Sta. B. 17,24 p. 1950. 389.3 K41

32548 CHYC, E. Ratschläge zum eindosen von fleisch. Pflüg 3:234-235. Nov.1950. 19 P48

32549 FURLONG, J. R. The drying of goat skins. Colon. Plant & Anim. Prod. 1:147-148. Apr./June 1950. 472 C71

32550 GRASSMANN, W. Verfahren zur aufhellung von vegetabilisch gegerbten ledern. (Sum.) Angew. Chem. (Ausg. A) 62:539. Nov.21,1950. 384 Z33

32551 JONKE, H. Über anwendung der infrarotstrahlung bei der trocknung von ledern. (Sum.) Angew. Chem. (Ausg. A) 62:538. Nov.21,1950. 384 Z33

32552 KÜNTZEL, A. Reiseeindrücke aus USA. (Sum.) Angew. Chem. (Ausg. A) 62:538. Nov.21,1950. 384 Z33

Leather manufacture.

32553 LEONARD, L. G. A. Developments in bacon-smoking equipment. Food [London] 20(232):23-26. Jan. 1951. 389.8 F738

32554 MEYER, J. 'Couples raise efficiency, slash costs; new method of measuring internal temperature of meats reduce smoking time by 15 percent, improves products, and saves considerable fuel and labor. Food Indus. 23:75-76. Jan.1951. 389.8 F737

32555 SCHWANK, M. Gerbung mit wasserlöslichen künsthäuten. Leder 1:177-180. Aug.15,1950. 303.8 L492

#### Statistics

32556 DOMINICAN REPUBLIC. DIRECCIÓN GENERAL DE ESTADÍSTICA. Sacrificio de ganado 1949, vol. XIII. Ciudad Trujillo, 1950. 52 p. 254.8 D7192S  
Statistics.

32557 INDIANA. AGRICULTURAL EXPERIMENT STATION. December 1,1950, pig survey. Lafayette, 1950. 2 p. 252.25 Ag8P

32558 KEUNE, O. Enormer aufschwung der deutschen milchviehhaltung. Molk.-Ztg. 4:1274-1275. Oct.26,1950. 44.8 M735

32559 LARSEN, J. The livestock industry in 1950. (In Danish.) Dansk Landbr. 70:10-12. Jan.4,1951. 280.28 V91  
Statistics.

32560 PRIESTMAN, H. L. E. Cattle population of Ireland now at highest figure ever recorded. Foreign Trade 9:97-99. Jan.20,1951. 286.8 C162

32561 RAAB, J. Betriebsgrösse und viehhaltung. Bayern in Zahlen 4:539-541. Nov.1950. 265 B34

32562 RAEURN, J. R. Notes on supplies and prices. Pig Breeders' Gaz. 64:23,25,27,29,31. Jan.1951. 46.8 N21

Pig and pork statistics, Great Britain.

32563 U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle on feed, January 1, 1951. Washington, 1951. 2 p. 1.9 Ec742Caf

32564 WIRTH, Die endgültigen ergebnisse der schweinezählung vom 2. september 1950. Statist. Monatsh. Württemberg-Baden 4:336-337. Oct.1950. 265 St24

#### OILS AND OILSEEDS

32565 ARTHUR, J. C., JR. More products from peanuts. Oil Mill Gaz. 55(7):13-15. Jan.1951. 307.8 O153  
Industrial utilization.

32566 BARBER, L. A., and HALL, M. D. Citronella oil. Econ. Bot. 4:322-336. Ref. Oct./Dec.1950. 450 Ec7

32567 BEAL, R. E., and LANCASTER, E. B. Protective films for pilot-plant deodorizers. Amer. Oil Chem. Soc. J. 28:12-16. Jan.1951. 307.8 J82

32568 BHASIN, M. M., and AGGARWAL, J. S. Effect of heat on vegetable oils. J. Sci. & Indus. Res. 9B:298-300. Dec.1950. 475 J82

32569 BLACKMAN, G. E. The sunflower. World Crops 3:51-53,56. Feb.1951. 281.8 W892  
The Industry.

32570 BOLDINGH, J., and DROST, J. R. Determination of vitamin A in margarine. Nederland. Akad. van Wetensch. Proc. 53:1426-1427. Nov.1950. 503 Am8P

32571 BREKKE, J. E., and CRUESS, W. V. Recovery and properties of avocado oil. Canner 112(4):14,16,18. Jan.27,1951. 286.83 C16

32572 BROWN, E., and others. Geranium oil. Colon. Plant & Anim. Prod. 1:109-113. Apr./June 1950. 472 C71

H. T. Islip, F. Major, and W. S. A. Matthews, joint authors.

32573 BROWN, E., and ISLIP, H. T. Oil of Helichrysum kilimanjari. Colon. Plant & Anim. Prod. 1:117-118. Apr./June 1950. 472 C71

32574 BROWN, E., COOMES, T. J., and ISLIP, H. T. Rosemary oil. Colon. Plant & Anim. Prod. 1:114-116. Apr./June 1950. 472 C71

32575 BUDOWSKI, P., O'CONNOR, R. T., and FIELD, E. T. Sesame oil. VI-VII. Amer. Oil Chem. Soc. J. 28: 51-55. Ref. Feb.1951. 307.8 J82

VI, Determination of sesamin; VII, Optical rotation and the minor components of sesame oil, by P. Budowski.

32576 BUTT, J. L., and KUMMER, F. A. Artificial curing of peanuts. Agr. Engin. 32:27-30,32. Jan.1951. 58.8 Ag83

32577 CANO PIZARRO, C. El aceite de orujo; la industria extractora se resiente de la falta de azufre. Rev. Sind. de Estadis. 5(19):22-25. July/Sept.1950. 263 Es8B

32578 CARTWRIGHT, R. The stabilisation of oils, fats and soaps. Soap, Perfumery & Cosmetics 24:47-51. Jan.1951. 307.8 S03

32579 CHURCH, R. J. H. Orange oil from French Guinea. Perfumery & Essential Oil Rec. 41:443-444. Dec.1950. 308.8 P41

32580 COLLINS, J. L. Productivité et oléagineux métropolitains. Oléagineux 6:15-19. Jan.1951. 77.8 OL2  
France.

32581 CONINCK, P. J. DE. Pression et diffusion en huilerie. Cong. Internat. des Indus. Agr. Rap. 8(1):405-415. 1950. 388 C765  
Includes equipment.

32582 COOMBER, H. E., and COOMES, T. J. Marama (Bauhinia esculenta) oil from Bechuanaland. Colon. Plant & Anim. Prod. 1:122-125. Apr./June 1950. 472 C71

32583 CRAWFORD, R. V., and HILDITCH, T. P. The component fatty acids and glycerides of groundnut oils. J. Sci. Food & Agr. 1:372-379. Ref. Dec.1950. 382 S02

32584 CRUELLAS, J. Auto coqueficación de semillas de lino. Argentina. U. Nac. de Litoral. Facul. de Quím. Indus. y Agr. Rev. 19(32):97-101. 1950. 385 Sa5

32585 DAVE, N. N. Cotton seed oil refinery. Oils & Oilseeds J. 3(6):15. Dec.1950. 307.8 O154

32586 DUNFORD, R. A. Chemical determination of vitamin E. Canad. Chem. & Process Indus. 35:47-49,57. Ref. Jan.1951. 381 C16  
In vegetable oils.

32587 EVANS, C. D., and others. The flavor problem of soybean oil. VII. Effect of trace metals. Amer. Oil Chem. Soc. J. 28:68-73. Feb.1951. 307.8 J82  
A. W. Schwab, H. A. Moser, J. E. Hawley, and E. H. Melvin, joint authors.

32588 FESNEAU, M. Contribution à l'étude du Cistus ladaniferus d'Espagne. Indus. de la Parfumerie 5:551. Dec.1950. 308.8 In2  
Chemical analysis.

32589 FESTER, G. A., and MARTINUZZI, E. A. Algunas esencias volátiles de San Luis y Córdoba. 3. Argentina. U. Nac. del Litoral. Facul. de Quím. Indus. y Agr. Rev. 19(32):54-74. Ref. 1950. 385 Sa5  
Chemistry.

32590 FLETCHER, A. L. Know your ingredients: bakery fats. Brit. Baker 122:21-24. Jan.5,1951. 389.8 B772

32591 GATTA, L. DELLA. L'industrie oleicole en "Pouille." (Sum.) Cong. Internat. des Indus. Agr. Rap. 8(1):553. 1950. 388 C765



- 32592 GRIBBINS, G. H. The reduction of free gossypol in cottonseed by pressure cooking. *Amer. Oil Chem. Soc. J.* 28:41-45. Feb. 1951. 307.8 J82
- 32593 GROS, A. T., and FEUGE, R. O. Modification of vegetable oils. *X. Amer. Oil Chem. Soc. J.* 28:1-4. Jan. 1951. 307.8 J82
- 32594 GUENTHER, E. The essential oils, v. 4. Toronto, Van Nostrand, 1950. 752 p. 308 G93E
- 32595 GUENTHER, E., and LANGENAU, E. E. Essential oils and related products. *Anal. Chem.* 23:217-220. Ref. Feb. 16, 1951. 381 J825A Analysis.
- 32596 GUPTA, S. C., PHADNIS, J. S., and AGGARWAL, J. S. Substitution of coconut oil in soap. *J. Sci. & Indus. Res.* 9B:275-278. Nov. 1950. 475 J82
- 32597 HADORN, H., and JUNGKUNZ, R. Weitere untersuchungen über die squalenzahl. 4. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hyg. 41:435-443. 1950. 389.9 Sw6  
French summary.  
Olive oil.
- 32598 HUNT, W. H., and others. A simple iodine-number refractometer for testing flaxseed and soybeans. *Amer. Oil Chem. Soc. J.* 28:5-8. Ref. Jan. 1951. 307.8 J82  
M. H. Neustadt, A. A. Shurkus, and L. Zeleny, joint authors.
- 32599 JENSEN, E. A., LAMBOU, M. G., and ALT-SCHUL, A. M. Cottonseed storage research reveals new aspects of major mill problems. *Cotton Digest* 23 (20):8-9, 18-19. Feb. 3, 1951. 286.82 C822
- 32600 KAMATH, N. R., and KULKARNI, R. K. Utilization of castor seed cake. *J. Sci. & Indus. Res.* 9B:289-295. Dec. 1950. 475 J82
- 32601 KANE, J. G. Cottonseed. Oils & Oilseeds J. 3(6):7. Dec. 1950. 307.8 O154  
The industry.
- 32602 KELLER, J. C. Crude peanut oil market stronger. *Peanut J. & Nut World* 30(4):25. Feb. 1951. 77.8 P313
- 32603 KHAN, N. A., DEATHERAGE, F. E., and BROWN, J. B. The preparation of stearolic acid and methyl dideutero-oleate, and certain of their derivatives. *Amer. Oil Chem. Soc. J.* 28:27-31. Ref. Jan. 1951. 307.8 J82
- 32604 LUNGO, A. DEL. How olive oil is judged on the market. (In Italian.) *Terra e Sole* 101:17-19. Jan. 1951. 16 T273
- 32605 MARINUCCI, M. The olive, symbol of civilization. (In Italian.) *Glor. di Agr.* 60:354. Nov. 12, 1950. 16 It1G  
Discussion of the international olive congresses.
- 32606 MARK, H. F., and MESROBIAN, R. B. Studies on the autoxidation of hydrocarbons including fats, oils and polymers, and The effect of light on the autoxidation of natural rubber. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):15-16. 1950. 388 C765
- 32607 MAYR, R. Neuere gewinnungsmethoden für speiseöle. *Umschau* 50:755-757. Dec. 15, 1950. 474 Um7
- 32608 MELLIER, M. T. Les stérols de l'huile de palme. *Oléagineux* 6:20-24. Ref. Jan. 1951. 77.8 OL2
- 32609 MILLER, R. C. Experimental work on filbert butter. *Nowest. Nut Bowl* 2(7):1, 4. Jan. 1951. 94.68 N81
- 32610 MOLINA, J. S. Cruz del Eje: zona productora de aceitunas "tipo español." *Chacra* 21(242):54-55. Jan. 1951. 9 C34
- 32611 MORENO LUQUE, J., and ORTEGA NIETO, M. Quelques idées sur l'élaboration de l'huile d'olive. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):552-553. 1950. 388 C765
- 32612 MOSER, H. A., and others. Conducting a taste panel to evaluate edible oils. *Soybean Digest* 11(3):16-19. Jan. 1951. 60.38 So9  
H. J. Dutton, C. D. Evans, and J. C. Cowan, joint authors.
- 32613 MOT, P. DE. Description de quelques réalisations pratiques pour la stérilisation des fruits de palme. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):565. 1950. 388 C765  
For oil manufacture.
- 32614 NAVES, Y. R. Essential oil of Xanthoxylum rhetsa, D.C. (mullilam oil). *Perfumery & Essential Oil Rec.* 41:441-442. Dec. 1950. 308.8 I41
- 32615 NEUBERGER, R. L., and IRELAND, A. P. Should colored oleo be sold in Oregon? *Sunday Oregonian, Farm, Home, Gard.* 1951:8-9. Jan. 28, 1951. 6 Su7
- 32616 PONS, W. A., JR., HOFFPAUIR, C. L., and O'CONNOR, R. T. Determination of total gossypol pigments in cottonseed oils. *Amer. Oil Chem. Soc. J.* 28:8-12. Ref. Jan. 1951. 307.8 J82
- 32617 PRICHARD, G. L. The flaxseed picture. *Mktg. Activ.* 13(12):9-12. Dec. 1950. 1.942 A8M34
- 32618 RASK, S. A. Soybean mill blooms on prairie. *News Farmer Coop.* 17(11):5, 19. Feb. 1951. 166.2 N47  
New processing plant of the Farmers Cooperative Elevator Association, Blooming Prairie, Minn.
- 32619 RILEY, J. P. The determination of acetyl values for use in component fatty acid analyses of castor oils. *Analyst* 76(898):40-44. Ref. Jan. 1951. 382 An1
- 32620 ROBINSON, H. M. A study of the stabilization of fats incorporated in candy. *Food Technol.* 5:20-24. Ref. Jan. 1951. 389.8 F7398
- 32621 ROCHE, J., and BAUDOUIN, N. Sur la composition en acides aminés des protéines du tourteau de coprah et sur les variations de leur teneur en méthionine. *Oléagineux* 6:11-14. Jan. 1951. 77.8 OL2
- 32622 ROSE, W. G. Plant lipases in emulsions of water in oil. *Amer. Oil Chem. Soc. J.* 28:47-51. Ref. Feb. 1951. 307.8 J82  
Vegetable oils.
- 32623 SALA ROCA, E. La modalidad de la campaña olivarera 1950-51. *Cult. Mod.* 33:410. Nov. 1950. 15 C89 Spain.
- 32624 SALVA CERDA, J. Baleares no produce el aceite que consume; 14,000 hectáreas de olivar con dos millones de olivo tiene la provincia. *Rev. Sind. de Estadis.* 5(19):10-13. July/Sept. 1950. 263 Es8B
- 32625 SAMISCH, Z. Olive industry in Greece and Turkey. (In Hebrew.) *Hassadeh* 31:99-102. Nov./Dec. 1950. 26 H27
- 32626 SEALS, W. F. Does "Peanut Week" sell peanuts—what is your opinion? *Peanut J. & Nut World* 30(4):19-20. Feb. 1951. 77.8 P313
- 32627 SEGURA ARROYO, A. L'obtention de l'huile d'olive—presse continue. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):552. 1950. 388 C765
- 32628 SHRIVASTAVA, R. C., KRISHNAMURTHY, R. S., and ATHAWALE, C. R. Oil from the seed of gokhru (*Xanthium strumarium*). *J. Sci. & Indus. Res.* 9B:282. Nov. 1950. 475 J82
- 32629 SIMON, N. Quelques brevets récents sur les dérivés des corps gras et leurs applications industrielles. *Oléagineux* 6:25-30. Jan. 1951. 77.8 OL2
- 32630 SPISNI, D. Chemical composition and biological value of the peanut (critical summary with experimental research). (In Italian.) *Clin. Vet.* 73:339-347. Nov. 1950. 41.8 C61
- 32631 STURZENEGGER, A., and STURM, H. Hydrolysis of fats at high temperatures. *Indus. & Engin. Chem.* 43:510-515. Ref. Feb. 1951. 381 J825
- 32632 SYDNEY. MUSEUM OF TECHNOLOGY AND APPLIED SCIENCE. Researches on essential oils of the Australian flora. II. Sydney, 1950. 15 p. 308.9 Sy2
- 32633 U. S. PRODUCTION AND MARKETING ADMIN. Flaxseed: acreage, yield, and production, United States. Washington, 1950. 2 p. 1.956 G76F61
- 32634 VAECK, S. V. Quelques considerations sur l'analyse thermique du beurre de cacao. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):551. 1950. 388 C765
- 32635 VALLE, R. H. Historia del olivo en México. *Agr. Lagunero* 4(44):10-12. Sept./Oct. 1950. 8 Ag824
- 32636 VANNECK, C. L'acidité de l'huile de palme brute avant et après son extraction. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):565. 1950. 388 C765
- 32637 WILEY, R. H. Economic status of lespezeza seed oil. *Ky. Acad. Sci. Trans.* 13:80-81. Oct. 1950. 500 K41
- 32638 ZITO, F. Spanish and Italian olive production. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 1951(2):1-5. Jan. 10, 1951. 281.8 Ag3

## POULTRY AND POULTRY PRODUCTS

- 32639 AGENJO CECILIA, C. Reus y su avicultura. *Cult. Mod.* 33:380-383. Oct. 1950. 15 C89
- 32640 ALP, H. H. What chicks to buy. *Hoard's Dairymen* 96:39. Jan. 10, 1951. 44.8 H65
- 32641 BAKER, R. L. Egg marketing trails production. *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 5:110, 112. Jan. 1951. 275.28 Io94



- 32642 BAKER, R. L. Predicting annual egg production in the United States. *J. Farm Econ.* 32:658-662. Nov.1950. 280.8 J822
- 32643 BARLEY, H. D. Should breeders increase prices? Hatching eggs, day-old chicks and pullet replacements are subject to increased production costs. *Poultry World* 88:11. Jan.4,1951. 47.8 P8682
- 32644 BARNES, E. Oklahoma's problems; fewer processing plants operating as farm flock numbers are continually decreased. *Amer. Egg & Poultry Rev.* 12:38. Jan.1951. 47.8 Am33
- 32645 BERRY, L. H. A good chicken is its own best salesman. *U. S. Egg & Poultry Mag.* 57(2):15,59-60. Feb.1951. 286.85 Eg3
- 32646 BROWN, J. C. Look forward to 1951. *Amer. Poultry J.* 81(12):4. Dec.1950. 47.8 Am32
- 32647 CABLE, C. C., JR. Marketing practices of northwest Arkansas broiler producers. *Ark. Agr. Expt. Sta. B.* 503,37 p. Nov.1950. 100 Ar42
- 32648 CARIZZA, R. A. Obtención, clasificación y aprovechamiento industrial de las plumas de las aves domésticas. *Charla Rur.* 145:30-31. Nov.1950. 9 C37
- 32649 CARPENTER, C. D. The Institute [of American Poultry Industries] merchandises service. *U. S. Egg & Poultry Mag.* 57(2):46-47,64. Feb.1951. 286.85 Eg3
- 32650 CLARKE, J. M. The poultry industry in the mountains of North Carolina. *Amer. Egg & Poultry Rev.* 12:40,42,44. Jan.1951. 47.8 Am33
- 32651 COLES, R. The future of the poultry industry. *Accredited Poultry Breeders' Fed. Eng. & Wales. News Serv.* 22:15-17. Winter 1950. 47.8 Ac2
- 32652 CORBETT, R. More chickens for meat. *Poultry Indus. [Boston]* 55:13. Jan.1951. 47.8 N44
- 32653 COSSETTE, M. Frampton vend 200,000 livres de dindes. *B. des Agr.* 47:16-19. Jan.1951. 7 B872
- 32654 DARRAH, L. B., and KEARL, C. D. Changes in time of starting chicks. *J. Farm Econ.* 32:652-657. Nov.1950. 280.8 J822
- Effects on prices and costs and returns of eggs.
- 32655 DARROW, M. I. Market only finished turkeys. *Swift's Dairy & Poultry News* 5(4):6,9. Fall 1950. 49.9 Sw5
- 32656 DEETJEN, G. Winterarbeit in der kennzeichnungsstelle. Eier-, Wild-, Geflügel- u. Honig-Markt 2(51/52):18,20. Dec.21,1950. 280.38 E13
- Egg grading in Germany.
- 32657 DIETRICH, K. Das kommende neue handelsklassengesetz und seine auswirkung auf die elerwirtschaft. Eier-, Wild-, Geflügel- u. Honig-Markt 2(51/52):1-3. Dec.21,1950. 280.38 E13
- 32658 DOSSIN, C. O. Guard winter egg quality. *N. J. Farm & Gard.* 22:42,45. Jan.1951. 6 G162
- 32659 ELLIS, F. E. Broilers are big business; mass production of chickens is now a year-round industry in heavily populated areas of Canada. *Family Herald & Wk. Star* 82(4):3,17. Jan.25,1951. 7 F21
- 32660 ELLIS, G. Chicks need luxury travel. *Broiler Growing* 2(2):7,24-25. Feb.1951. 47.8 B782
- Use of trucks.
- 32661 ELLIS, G. How to sell chicks. *Hatchery & Feed* 25(2):36,38. Feb.1951. 47.8 H28
- 32662 EVANS, R. J., and DAVIDSON, J. A. The choline content of fresh and stored shell eggs. *Poultry Sci.* 30:29-33. Ref. Jan.1951. 47.9 Am33P
- 32663 EVANS, R. J., BUTTS, H. A., and DAVIDSON, J. A. The niacin content of fresh and stored shell eggs. *Poultry Sci.* 30:132-135. Ref. Jan.1951. 47.8 Am33P
- 32664 FISCHER, C. M. Techniques and methods used in Western Regional Poultry Project WM-7: marketing chickens from producer to first handler in Oregon, Washington, and Utah. *West. Farm Econ. Assoc. Proc.* 23:82-88. 1950. 280.9 W527P
- 32665 FRAUSANNA, F. Regulation of poultry production. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 85:1-3. Dec.13,1950. 281.8 Ag3
- 32666 GILMAN, W. Pinfeathers peel off! Duck pinfeathers can be removed easily with ordinary paraffin wax. *Poultry Tribune* 57(2):94-95. Feb.1951. 47.8 P8642
- 32667 GOFF, O. E., and ESSARY, E. O. Better poultry marketing through better processing. *Soeast. Poultryman* 4:28-29,98. Jan.1951. 47.8 So872
- Also in *Va. Poultryman* 5:28-29,98. Jan.1951. 47.8 V812
- 32668 GOFF, O. E., and ESSARY, E. O. New chicken products coming. *Broiler Growing* 2(2):13,45-47. Feb.1951. 47.8 B782
- 32669 GORESLINE, H. E. Heat treatment keeps eggs fresh. *Poultry Indus. [Boston]* 55:12,46. Jan.1951. 47.8 N44
- 32670 GORESLINE, H. E., and others. Sanitation adds to [poultry] product value. *Washington, U. S. Prod. & Mktg. Admin.* 1951. 6 p. 1.914 R2R11
- M. A. Howe, E. R. Baush, and M. F. Gunderson, joint authors.
- Paper presented before the Fact Finding Conference of the Institute of American Poultry Industries, Kansas City, Mo., Feb. 12, 1951.
- 32671 HAGEMANN, P. Suppenhühner-reklame. *Geflügelhof* 13:812-813. Dec.8,1950. 47.8 G276
- 32672 HALE, M. Spoiled eggs are spoiled eggs. *Poultry World* 88:52. Jan.18,1951. 47.8 P8682
- 32673 HANSON, H. L., KLINE, L., and LINEWEAVER, H. Application of balanced incomplete block design to scoring of ten dried egg samples. *Food Technol.* 5:9-13. Jan.1951. 389.8 F7398
- 32674 HIRSCH, A. Industry members expect 1951 to be satisfactory season. *Poultry Supply Dealer* 28:12-13, 42-43. Jan.1951. 47.8 B11
- 32675 HOOVER, D. A. Profits with both barrels; our business has two barrels, chicks and feed. *Hatchery & Feed* 25(2):13,66. Feb.1951. 47.8 H28
- 32676 HORTON, R. Good products sell quicker. *U. S. Egg & Poultry Mag.* 57(2):45,76. Feb.1951. 286.85 Eg3
- Eggs and poultry.
- 32677 JOHNDREW, O. F., JR. Progress in shell egg packaging. *Mktg. Activ.* 14:15-19. Jan.1951. 1.942 A8M34
- 32678 JOHNS, C. K., and DESMARAIS, J. G. The Buffalant method in the bacteriological control of frozen eggs. *Food Technol.* 5:36-37. Jan.1951. 389.8 F7398
- 32679 JOHNSON, E. A. Los Angeles County continues as import egg market. *Co-op. Poultryman* 16(2):6-7. Feb.1951. 47.8 C782
- 32680 JONES, M. California chicken sales shoot up when retailers handle caponettes. *U. S. Egg & Poultry Mag.* 57(2):50,76. Feb.1951. 286.85 Eg3
- 32681 JONES, R. E. You can make money from market egg production. *Amer. Poultry J.* 82:4,69-70. Jan.1951. 47.8 Am32
- 32682 KARPOFF, E. Broiler placement coverage is extended. *Broiler Growing* 2(2):44. Feb.1951. 47.8 B782
- 32683 KOCH, M. Wie steht die brütereie zu ihren bruterleieferbetrieben? *Deut. Wirtgeflügelzucht.* 3:114. Dec.9,1950. 47.8 D483
- 32684 KOHLS, R. L. A technique for anticipating change in the volume of egg storage. *J. Farm Econ.* 32:663-666. Nov.1950. 280.8 J822
- 32685 MATHESON, N. A. The Island wins with capons; farm-produced well-finished chickens are an old story on P.E.I. *Family Herald & Wk. Star* 82(4):7,16. Jan.25,1951. 7 F21
- 32686 MOOBERRY, A. V. The future of the broiler industry in Northwest Arkansas. *Amer. Egg & Poultry Rev.* 12:60,62. Jan.1951. 47.8 Am33
- 32687 MOORE, R. F. Weekly chick placement reports in major broiler areas. *Soeast. Poultryman* 4:23,122-123. Jan.1951. 47.8 So872
- Also in *Va. Poultryman* 5:23,122-123. Jan.1951. 47.8 V812
- 32688 MORTENSEN, H. Eggs 1950. (In Danish.) *Andelsbladet* 52:17-18. Jan.4,1951. 280.28 An2
- 32689 MORTENSON, W. P. The poultry outlook for 1951. *Hoards Dairyman* 96:145. Feb.10,1951. 44.8 H65
- 32690 MORTENSON, W. P. Sell eggs on a quality basis. *Poultry Tribune* 57(2):74-76. Feb.1951. 47.8 P8642
- 32691 NADEN, K. D., and JACKSON, G. A., JR. Techniques and methods used in Western Regional Poultry Project WM-7: retailing of chicken in the Los Angeles area. *West. Farm Econ. Assoc. Proc.* 23:69-81. 1950. 280.9 W527P
- 32692 1951 directory southeastern poultry industry. *Soeast. Poultryman* 4:133-149. Jan.1951. 47.8 So872
- Also in *Va. Poultryman* 5:133-149. Jan.1951. 47.8 V812



- 32693 NUGENT, G. R. H. We must have more eggs in the winter. Price variations and feed changes are suggested to encourage production. *Mod. Poultry Keeping* 64:31. Jan.10,1951. 47.8 Eg3
- 32694 OKLAHOMA. AGRICULTURAL AND MECHANICAL COLLEGE. EXTENSION DIV. Graded eggs, an extension program. *Okla. Agr. Col. Ext. C.* 549,4 p. n.d. 275.29 Ok41C
- 32695 PETERSON, G. A. It pays you to pack eggs large end up. (Excerpts.) *Eggsaminer* 28:6-7,14. Jan. 1951. 286.85 Eg32
- 32696 PIERCE, H. C. The consumer has the final say. *U. S. Egg & Poultry Mag.* 57(2):48-49. Feb.1951. 286.85 Eg3  
Eggs and poultry.
- 32697 POLLOCK, C. Does advertising really pay? *U. S. Egg & Poultry Mag.* 57(2):38-39. Feb.1951. 286.85 Eg3  
Poultry.
- 32698 PUNNETT, R. C. Oiled eggs. *Poultry Indus. [Milford]* 16:81. Jan.25,1951. 47.8 P8644
- 32699 RATCLIFFE, H. E. Cooperative marketing of eggs and poultry in Ohio. *U. S. Farm Credit Admin. B.* 59,69 p. May 1950. 166.2 B87
- 32700 RINEAR, E. H. Training sparks poultry sales. *Mktg. Activ.* 14:3-6. Jan.1951. 1.942 A8M34
- 32701 ROGERS, M. T. Packaging—a potent merchandising tool. *U. S. Egg & Poultry Mag.* 57(2):26-27,68,71. Feb.1951. 286.85 Eg3  
Poultry.
- 32702 ROGERS, R. Farm fresh right to the customer's door step. *U. S. Egg & Poultry Mag.* 57(2):23,75. Feb.1951. 286.85 Eg3  
Care and handling of eggs.
- 32703 ROTHBAUER, T. C., and WOOD, G. B. How effective are different methods of assembling Indiana eggs? *Purdue U. Work Simplification News Let.* 21:7-8. Nov. 1950. 281.9 P97
- 32704 ROY, J. B. Mieux vaut stabiliser et régulariser notre production que de l'augmenter. *Avicult. Québecois* 6(12):5-6. Dec.1950. 47.8 Av55
- 32705 SALA, E. Qualitätskontrolle durch den Konsumenten. *Deut. Wirtgeflügelzucht.* 3:41-42. Oct.28,1950. 47.8 D483  
Eggs.
- 32706 SAN DIEGO CO-OPERATIVE POULTRY ASSOCIATION. New poultry plant policies. *San Diego Poultry J.* 27(545):6-7,16. Jan.1951. 47.8 Sa52
- 32707 SASAKI, R. Yokel seisanbutsu no riyo oyobi kakoho [Utilization and manufacturing of products from chicken raising]. Tokyo, Chikyu Shuppan, 1950. 231 p. 47 Sa73
- 32708 SAVAGE, W. N. Premium markets demand that "extra measure of quality." *Amer. Poultry J.* 81(12):14,44. Dec.1950. 47.8 Am32  
Eggs.
- 32709 SHORT, G. M. How we doubled our poultry sales. *U. S. Egg & Poultry Mag.* 57(2):27,65. Feb.1951. 286.85 Eg3
- 32710 SMITH, C. F. Georgia broiler expansion. *Amer. Egg & Poultry Rev.* 12:14-15,100. Jan.1951. 47.8 Am33
- 32711 SPINNEY, G. G. The road ahead for poultry. *Mod. Poultry Keeping* 64:13-14. Jan.3,1951. 47.8 Eg3  
Great Britain.
- 32712 SULLIVAN, L. R. Let's shout from the rooftops that turkey is cheap. *U. S. Egg & Poultry Mag.* 57(2):35,66. Feb.1951. 286.85 Eg3
- 32713 TERMOHLEN, W. D. Mobilization—how will it affect poultry industry? *Poultry Supply Dealer* 28:14,39. Jan.1951. 47.8 B11
- 32714 TREMBLAY, R. H. Poultry on Vermont farms. *Vt. Agr. Expt. Sta. B.* 560,24 p. Nov.1950. 100 V59
- 32715 U. S. BUR. OF AGRICULTURAL ECONOMICS. Chicks placed weekly in seven principal commercial broiler producing areas in 1950. Washington, 1951. 2 p. 1.941 H8C4322
- 32716 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Utilization of farm crops: eggs (poultry). Hearing, 81st Cong., 2d sess. pursuant to S. Res. 36, Jan. 23, 1950. Washington, 1951. 27 p.  
Includes discussion of price supports.
- 32717 USDA poultry meat inspection. *Vet. Med.* 46:87-88. Mar.1951. 41.8 M69  
Report of the Committee on Poultry Inspection and Sanitation, by O. Sussman, M. D. Baum, E. R. Price, K. Young, L. Davenport, J. Lieberman, and S. V. Dugan.
- 32718 UPSHAW, W. E. Eggs are perishable; better quality eggs command better prices in any market. *Eggsaminer* 28:4,21. Jan.1951. 286.85 Eg32
- 32719 VINCENT, G. Evisceration. *Avicult. Québecois* 6:21-22. Jan.1951. 47.8 Av55
- 32720 VINE, V. Why do midwestern eggs bring less money? *Eggsaminer* 28:10,18-19. Jan.1951. 286.85 Eg32  
Quality.
- 32721 WARREN, C. C. The outlook for 1951. *Turkey World* 26:13,36-38. Jan.1951. 47.38 T84
- 32722 WEAVER, L. E. Producing hatching eggs for the broiler industry. *Amer. Agr.* 148:48-49. Jan.20,1951. 6 Am3  
Includes cost of production.
- 32723 WEGGE, W. Panel survey gets facts on sideline income. Sidelines are getting almost as important as chick sales. *Hatchery & Feed* 25:14,141. Jan.1951. 47.8 H28  
Feed, etc.
- 32724 WHEELER, R. S. Long range outlook bright for poultry industry in Southeast. *Poultry Supply Dealer* 28:20-21. Jan.1951. 47.8 B11
- 32725 WHITE, M., and PAARLBERG, D. The price and production of broilers. *Ind. Agr. Expt. Sta. B.* 553, 20 p. July 1950. 100 In2P
- 32726 WISE, H. The poultry situation in the Southeast. *Amer. Egg & Poultry Rev.* 12:52,54,56. Jan.1951. 47.8 Am33
- 32727 WOOD, G. B. '51 hatchery prospects. *Hatchery & Feed* 25:10,52,54,56. Jan.1951. 47.8 H28
- 32728 WORLD'S POULTRY CONGRESS. 9th, PARIS, 1951. Preliminary announcement. Paris, 1950. 32 p. 47.9 W897Pa
- 32729 YOUNGBLOOD, O. There's a broiler boom in East Texas. *Amer. Egg & Poultry Rev.* 12:16,18. Jan. 1951. 47.8 Am33
- 32730 ZUROSK, C. H. \$3000 to \$6000 payroll saving possible for egg coop. *Purdue U. Work Simplification News Let.* 21:6-7. Nov.1950. 281.9 P97  
Handling methods.

## RUBBER AND RUBBER SUBSTITUTES

- 32731 BEKKEDAHL, N. Natural and synthetic rubbers. *Analyt. Chem.* 23:243-253. Ref. Feb.16,1951. 381 J825A  
Analytical methods.
- 32732 BOCQUET, M. Exposé sur la spécification du caoutchouc naturel. *Rev. Gén. du Caoutchouc* 28:10-11. Jan.1951. 305.8 R32
- 32733 BOONSTRA, B. B. S. T. Some properties of vulcanized rubber under strain. *Indus. & Engin. Chem.* 43:362-365. Ref. Feb.1951. 381 J825
- 32734 CAMPBELL, H. N., and ALLEN, M. D. Crystallization in unstretched rubber. *Indus. & Engin. Chem.* 43:413-415. Ref. Feb.1951. 381 J825
- 32735 CASSAGNE, P. La thermosensibilité du latex d'hévéa. I. *Rev. Gén. du Caoutchouc* 28:39-42. Jan.1951. 305.8 R32
- 32736 COOPER, D. H. Primary creep and stiffness of vulcanized rubbers. *Indus. & Engin. Chem.* 43:365-373. Feb.1951. 381 J825
- 32737 CORRADO, B. W. Rubber output and distillers; a careful analysis shows rubber situation today to be improved over World War II. *Spirits* 18:15-16,40,42. Jan.1951. 390.8 Am34
- 32738 CRAIG, D., DAVIDSON, W. L., and JUVE, A. E. Tetramethylthiuram disulfide vulcanization of extracted rubber. *V. J. Polymer Sci.* 6:177-187. Feb.1951. 381 J829
- 32739 FAZAKERLEY, T. W. The British rubber industry. *India-Rubber J.* 120:28,30. Jan.6,1951. 305.8 In21
- 32740 GEE, G., STERN, J., and TRELOAR, L. R. G. Volume changes in the stretching of vulcanized natural rubber. *Faraday Soc. Trans.* 46:1101-1106. Ref. Dec. 1950. 382 F22
- 32741 GEORGE, A. V. Indian rubber plantation industry. (Sum.) *Rubber India* 2(10):6-7. Nov.1950. 305.8 R829



32742 GOLDSPIEL, S., and BERNSTEIN, F. Application of X-ray diffraction methods to the identification of natural and synthetic rubbers. Amer. Soc. Testing Mater. ASTM B. 171:71-80. Ref. Jan.1951. 290.9 Am34B

32743 HAAN-HOMANS, L. N. S. D. Esterase in latex of *Hevea brasiliensis*. Indus. & Engin. Chem. 43: 403-406. Feb.1951. 381 J825

32744 HADER, R. N., and LE BEAU, D. S. Rubber reclaiming; a staff-industry collaborative report. Indus. & Engin. Chem. 43:250-263. Ref. Feb.1951. 381 J825

32745 KUZ'MINSKIĬ, A. S., and others. In regard to the effect of sulfur on the oxidation of sodium-butadiene rubber. (In Russian.) Akad. Nauk SSSR. Dok. 75:223-226. Nov.11,1950. 511 P444A

T. G. Degteva, K. A. Lapteva, and N. N. Lezhnev, joint authors.

32746 LE BRAS, J., and DELALANDE, A. Les dérivés chimiques du caoutchouc naturel. Paris, Dunod, 1950. 485 p. (Matériaux de synthèse) 305 L49

32747 MCKEAND, D. J. Influence of soaps on gelling characteristics of hevea latices. Indus. & Engin. Chem. 43:415-420. Feb.1951. 381 J825

32748 MINY, P. Technique de la préparation du caoutchouc d'hevea au Congo Belge. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):560-561. 1950. 388 C765

32749 MUNSTER, W. N., and HANDER, O. B. Synthetic rubber back in spotlight. Chem. & Engin. News 29:20-21. Jan.1,1951. 381 J825N

32750 NEWTON, R. G., and others. Variability of Malayan rubber. Indus. & Engin. Chem. 43:329-334. Feb.1951. 381 J825

M. W. Philpott, H. Fairfield-Smith, and W. G. Wren, joint authors.

32751 PERRE, M. VAN DEN. L'industrie du latex, nouvel horizon dans le monde du caoutchouc. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):561-562. 1950. 388 C765

32752 RAMOS, M. B. New prices for rubber. (In Portuguese.) Assoc. Com. do Amazonas. B. 9(107):3-6. June 1950. 286.9 As7B

32753 ROSSO, G. Geografia della gomma [Geography of rubber]. Genova, Lupa, 1950. 73 p. 78 R73

32754 RUBINFELD, J. Dutch rubber industry: developments in Indonesia. India-Rubber J. 120:103-104. Jan.20,1951. 305.8 In21

32755 SALOMON, G., and others. Plastics from natural rubber. Indus. & Engin. Chem. 43:315-319. Ref. Feb.1951. 381 J825

G. J. van Amerongen, G. J. van Veersen, G. Schuur, and H. C. J. de Decker, joint authors.

32756 SCHMIDT, E., and KELSEY, R. H. Creaming latex with ammonium alginate. Indus. & Engin. Chem. 43: 406-412. Ref. Feb.1951. 381 J825

32757 VERHAAR, G. Whitewashing of rubber. (In Dutch.) Bergcultures 19:445,447. Dec.1,1950. 22.5 B45

## SEEDS

32758 ASSOCIATION OF OFFICIAL SEED ANALYSTS. Proceedings of the fortieth annual meeting, Washington, D. C., May 4-8, 1950. Wash., D.C., 1950. 122 p. 61.9 As7

32759 BEARD, D. F., MYERS, W., and FORTENBERRY, B. W. Certification requirements vary. Seed World 68(3):22,24. Feb.2,1951. 61.8 Se52

32760 BOWES, P. C., and others. Spontaneous heating and ignition in stored palm kernels. I. A survey of occurrences of heating and fire. J. Sci. Food & Agr. 1: 360-366. Dec.1950. 382 So12

J. H. Burgoyne, T. P. Hilditch, and A. Thomas, joint authors.

32761 BRANTLEY, C. O. Catalog revision is essential for profits. Seed World 68(2):18-19. Jan.19, 1951. 61.8 Se52

32762 DAHNFELDT, L., A/S. 100 years, Daehnfeldt, 1850-1950. Odense, 1950. 32 p. 61.9 D13

Seed firm.

32763 EDLER, G. C. Grass, legume seed supplies largest on record. Agr. Situation 35:6-7. Jan.1951. 1 Ec7Ag

32764 FINNELL, H. E., and others. Is the variety eligible? Seed World 68(2):11-12. Jan.19,1951. 61.8 Se52

C. Porter, J. Oakley, K. E. Beesen, and D. F. Beard, joint authors.

Seed certification.

32765 FORTENBERRY, B. W. Your Kentucky Seed Improvement Association. Ky. Farmer 87:12-13. Jan. 1951. 6 F2237

Program of the association.

32766 GRØNTVED, P. Use and misuse of research results. (In Danish.) Andelsbladet 52:41-42. Jan.11, 1951. 280.28 An2

In seed marketing.

32767 HAFENRICHTER, A. L. Certified seed is free. Utah Farmer 71:77,90. Feb.1,1951. 6 D45

32768 HASTINGS, L. Necesidad de laboratorios de prueba de semillas en los Trópicos Americanos. Turrialba 1:45-46. July 1950. 8 T86

32769 HAWKEN, T. Seed distribution. Alberta. U. Dept. Plant Sci. Seasonal Notes 36:10. Jan.6,1951. 64.9 AL12

32770 JUSTICE, O. L. Second annual progress report on research conducted under Research and Marketing Act Project 355. Assoc. Off. Seed Anal. Proc. 40:44-47. 1950. 61.9 As7

32771 LAMPHIER, M. A message from the Canadian Commercial Seed Analysts Association. Assoc. Off. Seed Anal. Proc. 40:42-43. 1950. 61.9 As7

32772 LEGGATT, C. W. A proportioning seed mixer and sampler. Assoc. Off. Seed Anal. Proc. 40:47-49. 1950. 61.9 As7

32773 LUNTZ, H. Seed, fertilizer, the 1951 supply story. Hoard's Dairyman 96:63,69. Jan.25,1951. 44.8 H65

32774 MARSHALL, W. H. Objectives of the new certification plan. Minn. Seed Grower 23(6):1-2. Dec. 1950. 61.8 M66

32775 MAULDIN, M. P. Grass seed testing is tricky! South. Seedsman 14:42-43,66-67. Jan.1951. 61.8 So8

32776 MULLER, C. J. Better seeds for the horticultural industry. Gt. Brit. Min. Agr. Agriculture 57: 426-429. Dec.1950. 10 G79J

32777 SAWYER, R. H. A seedsman's viewpoint of the contributions of seed analysts and seed testing to the seed industry. Assoc. Off. Seed Anal. Proc. 40:39-42. 1950. 61.9 As7

32778 SINCOCK, R. L. Nation's cabbage seed kingdom shrinks. Wash. Farmer 76:4,14-15. Jan.4,1951. 6 R151

32779 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Seed for better forage crops, by W. M. Myers, C. S. Garrison and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11

Supply situation.

## SUGAR AND SIRUPS

32780 AHLFELD, H. Germany's possibilities of sugar supply in the campaign year 1950/51. F. O. Licht's Sugar Inform. Serv. Sup. Rpt. 82(14),14 p. Oct.31, 1950. 66.8 L61S

32781 AHLFELD, H. The sugar economic situation at the end of 1950. F. O. Licht's Sugar Inform. Serv. 82 (12):1-7. Dec.30,1950. 66.8 L61

32782 ALMANDOZ, P. Fabricación de hielo seco con el CO<sub>2</sub> de la fermentación de las mieles; esquema termodinámico para un proceso de obtención de hielo seco; (cálculos fundamentales). Agrotecnia 4:57-60. (To be cont.) Sept./Dec.1950. 8 Ag825

32783 ANJOS, V. T. R. DOS. Fermentation with unrefined sugar. (In Portuguese.) Bras. Açucareiro 36:220-226. Aug.1950. 65.8 B73

32784 ARIES, R. S., OTHMER, D. F., and COPULSKY, W. Glutamate monosodas. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):508. 1950. 388 C765

From sugar beets.

32785 ARIES, R. S., and COPULSKY, W. L'utilisation des mélasse aux Etats-Unis. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):509. 1950. 388 C765

32786 BALMACEDA, C. Price control. (Excerpts.) Sugar News 26:599-601. Oct.1950. 65.8 Su36

Philippine Republic.

32787 BECKER, D. Die vorteile des saftreinigungsvorgangs nach Wiklund. Zucker 3:513-516. Dec.1,1950. 65.8 Z82

Sugar beets.

32788 BENIDT, B. H. Spreckels growers profit by buying the sugar they produce. Spreckels Sugar Beet B. 15:2. Jan./Feb.1951. 66.8 Sp7



- 32789 BERG, R. E. Powder clarifier recovers more sugar. Food Indus. 23:58-60. Jan.1951. 389.8 F737
- 32790 BERNARD, A. Réalisation industrielle du turbinage à grande vitesse. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):517. 1950. 388 C765  
In sugar manufacture.
- 32791 BEZUGSQUELLEN - Verzeichnis für die Zuckerindustrie. Berlin?1950. 9 p. 225 B462
- 32792 BLAKE, A. F. "Ray-table" unit curbs bacteria on sugar. Food Indus. 23:77. Jan.1951. 389.8 F737  
Ultraviolet treatment for killing of thermophilic bacteria.
- 32793 BORGHI, M. Le traitement des jus bruts par les échangeurs d'ions. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):506-507. 1950. 388 C765  
Sugar manufacture.
- 32794 BÖTTGER, S., and MENSCHER, H. Zweckmässige saftreinigung und kontinuierliche filtration von saturaionssäften. Zucker 3:508-513. Dec.1,1950. 65.8 Z82  
Sugar beets.
- 32795 BRIEGHEL-MULLER, A., and BOLLERUP, J. Some colour problems relating to juice purification. Cong. Internatl. des Indus. Agr. Rap. 8(1):219-226. 1950. 388 C765  
Beet sugar manufacture.
- 32796 BUTTIAUX, R., DEVILLERS, P., and CALDEMAISOUS. Emploi des sels d'ammonium quaternaires comme antiseptiques en sucrerie. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):511-512. 1950. 388 C765
- 32797 CLERIOT, J. Les sels de chaux dans le noir animal. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):524. 1950. 388 C765  
In the sugar industry.
- 32798 COLONIAL SUGAR REFINING CO. The Australian sugar industry. Commerce [Sydney] 39:401-402, 415. Dec.1950. 287 Sy2J
- 32799 CONGRESSO AÇUCAREIRO NACIONAL, 1, RIO DE JANEIRO, 1949. Anais [Annals], v.I. Rio de Janeiro, Instituto do Açúcar e do Alcool, 1950. 243 p. 65.9 C765
- 32800 DANNEMANN, R. Wirtschaftliche oder politische zuckerfabrik? Landwirtsbl. Weser-Ems 97:1007. Nov.30,1950. 18 L2345
- 32801 DEDEK, J. L'action d'un échangeur d'ions vis à vis de l'acide glutamique. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):508. 1950. 388 C765  
Beet sugar manufacture.
- 32802 DEDEK, J. La décoloration des jus sucrés par les échangeurs d'ions. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):508. 1950. 388 C765
- 32803 DEGREG, R., and BURTON, J. Organisation technique d'un service d'entretien. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):522. 1950. 388 C765  
In sugar refineries.
- 32804 DIÉGUES JÚNIOR, M. Sugar in the Presidential reports from Pernambuco. III. (In Portuguese.) Brasil Açucareiro 36:106-108. July 1950. 65.8 B73
- 32805 DUBOURG, J., and DEVILLERS, P. Les infections microbiennes en sucrerie. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):512-513. 1950. 388 C765
- 32806 DUBOURG, J., SAUNIER, R., and LEMAITRE, A. Les modifications de la betterave au cours du stockage et leurs repercussions sur la diffusibilité de certains de ses constituants. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):513. 1950. 388 C765
- 32807 FAUSEL, W. Wird eine neue zuckerfabrik errichtet? Bad. Landwirt. Wchnbl. 117:866. Dec.16, 1950. 18 B142
- 32808 FONSECA, M. M. Sugar refining by the direct vacuum-contact ion exchange process in the Union and Industry Factory in Pernambuco. (In Portuguese.) Brasil Açucareiro 36:216-220. Aug.1950. 65.8 B73
- 32809 GILLET, E. C. Étude du problème du "grainage" lors de la cristallisation du sucre. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):523. 1950. 388 C765
- 32810 GOBIS, L. De l'origine de l'acide citrique dans la fermentation alcoolique. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):527. 1950. 388 C765  
Alcohol fermentation of sugar.
- 32811 GRANDCHAMP-CHAUDIN, A. DE. Le fructose, des fructosanes et des glucosfructosanes. Sucre. Franç. 92:9. Jan.1951. 65.8 J82  
Sugar
- 32812 GUERIN, J. Variations des propriétés du noir animal au cours de la filtration, du dégraissage et de la regeneration. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):524-525. 1950. 388 C765  
In the sugar industry.
- 32813 GUILLAUME, J. Comment produire du sucre raffiné en sucrerie de cannes. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):524. 1950. 388 C765
- 32814 HADDON, E. Purity of final molasses and its percentage reduced to 85° Brix. Rev. Agr. de l'île Maurice 29:224-225. Sept./Oct.1950. 24 M744
- 32815 HOUSIAU, A. Observations concernant la production de glycérine en fermentation alcoolique de mélasse. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):528. 1950. 388 C765
- 32816 KERR, J. Know your ingredients: sugar. Brit. Baker 121:677-681. (Concl.) Dec.29,1950. 389.8 B772
- 32817 KHANNA, K. L., and CHACRAVARTI, A. S. Studies in the clarification of sugarcane juice in sugar manufacture. Indian J. Agr. Sci. 19:137-161. Mar.1949. 22 Ag831
- 32818 KIESSLING, C. Les nouvelles centrifuges à haut rendement de l'industrie sucrière suédoise. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):516-517. 1950. 388 C765
- 32819 KRISHNA, P. G. Investigations on the alkalinity and saltiness in gur made from Coimbatore sugarcane varieties. Indian J. Agr. Sci. 19:163-179. Ref. Mar.1949. 22 Ag831
- 32820 LACROIX, J. Les problèmes du sucre. Coopération 20:7-11. (To be cont.) Dec.1950. 280.28 C7845
- 32821 LAMBORN, O. H. Fundamentals of refined sugar distribution. n.p., 1950. 24 p. 286.365 L172Fu
- 32822 LAMBORN & CO. U.S. beet and cane crop prospects. Sugar News 26:560. Oct.1950. 65.8 Su36
- 32823 LANGE, S. Sur la conductivité électrique des résines échangeuses de cations. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):507. 1950. 388 C765  
Sugar manufacture.
- 32824 LEDDET, P. Conservación de las melazas - daños causados a las mismas en ocasión de su almacenamiento. Indus. Azucarera 56:502,504,506-508. Oct. 1950. 65.8 In22
- 32825 LIMA, H. State intervention in the economy. (In Portuguese.) Cong. Açucareiro Nac. An. 1:216-227. 1950. 65.9 C765  
Includes discussion of control in Brazilian sugar and alcohol industry.
- 32826 MACLAREN, G. A., JR. Sur la nature chimique de quelques-uns des composés colorés dans la mélasse du résidu final de raffinage. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):505. 1950. 388 C765
- 32827 MADE, D. VAN DER. Filtrations difficiles en général, et spécialement dans l'industrie sucrière. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):509. 1950. 388 C765
- 32828 MANDRU, J. E. Economics of ion exchange operation. Sugar 46:28-29. Jan.1951. 65.8 F11
- 32829 MARIANI, E. Possibility of recovery of amino acids from molasses solutions by means of resin ion exchangers. (In Italian.) Cong. Internatl. des Indus. Agr. Rap. 8(1):275-283. 1950. 388 C765  
Summary in French.
- 32830 MERZ, V. New process for the extraction of cane wax. Internatl. Sugar J. 53(625):11,10. Jan.1951. 65.8 In8
- 32831 MONEY, R. W., and CHRISTIAN, W. A. The "air current" method of moisture determination; with particular reference to moisture in white sugars. Analyst 76(898):19-24. Jan.1951. 382 An1  
Includes discussion.
- 32832 NATIONAL CONFECTIONERS' ASSOCIATION OF THE UNITED STATES. Statement of the National Confectioners' Association with respect to sugar allocations, 1951. Chicago, 1950. 10 p. 65 N213
- 32833 NEEDLE, H. C., and ARIES, R. S. La production d'acide lactique et de lactates à partir des mélasses. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):527. 1950. 388 C765
- 32834 NIKLAS, W. Sicherheit für zuckerrüben! Deut. Landwirt. Presse 73(24):1-2. Nov.18,1950. 18 D482  
Policy.
- 32835 OLIVEROS, S. B. On the Queensland sugar industry. Sugar News 26:535-559. Oct.1950. 65.8 Su36



- 32836 OWERS, A. C. A record crop makes us look ahead. Brit. Sugar Beet Rev. 19:65-67. Dec.1950. 66.8 B77
- 32837 PAYNE, G. W. La construction des fours pour la regeneration du noir animal. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):525. 1950. 388 C765  
In the sugar industry.
- 32838 PÉREZ, L. J. El azúcar en Santo Domingo. Dominican Repub. Sec. de Estado de Econ. Nac. Rev. 12: 2-4. Sept./Oct.1950. 280.9 D712  
The industry.
- 32839 POTTER, A. La production du sucre de canne raffiné pour l'industrie des conserves. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):523. 1950. 388 C765
- 32840 POWERS, H. E. C. L'influence de l'humidité relative de l'atmosphère sur le sucre (The effect of relative humidity of the atmosphere upon sugar). (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):509. 1950. 388 C765
- 32841 RENS, G. La détermination de la capacité ionique d'un échangeur d'ions. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):507. 1950. 388 C765  
In the sugar industry.
- 32842 RENS, G. Quelques aspects de l'échange ionique s'opérant dans les couches de résines. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):507-508. 1950. 388 C765  
In the sugar industry.
- 32843 RITGEN, G. Eine zuckerfabrik für drei millionen DMI Eine betrachtung zur entwicklung des zucker-rübenbaues in Westfalen-Lippe. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:5. Jan.4,1951. 18 L2346
- 32844 RODRIGUES, J. H. Documents on sugar in the archives of colonial history. (In Portuguese.) Bras. Açucareiro 36:235-242. Aug.1950. 65.8 B73
- 32845 ROXAS, M. L., and others. A rational basis for the determination of domestic centrifugal sugar allocation. Sugar News [Manila] 26:612-616. Nov.1950. 65.8 Su36
- P. C. Enrile, R. L. Pagula, and J. O. Sumagui, joint authors.
- 32846 SALES, A. Economic and social aspects of the sugar industry. (In Portuguese.) Cong. Açucareiro Nac. An. 1:197-215. 1950. 65.9 C765  
Includes discussion.  
Brazil.
- 32847 SIMONART, A. Leçons de quelques examens microbiologiques au cours de la campagne 1949. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):515. 1950. 388 C765  
In sugar manufacture.
- 32848 SMET, A. Les appareils modernes de diffusion. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1): 514. 1950. 388 C765  
Sugar manufacture.
- 32849 SMIT, P. Les échangeurs de cations comme moyen de catalyse dans l'industrie sucrière. Sucre. Franç. 92:6-8. Jan.1951. 65.8 J82
- 32850 SMIT, P. Les progrès dans l'application des échangeurs d'ions en sucrerie. Sucre. Franç. 92:1-6. Jan.1951. 65.8 J82
- 32851 SORGATO, I. Chemical factors determining the color of intermediate products in sugar manufacture. (In Italian.) Cong. Internatl. des Indus. Agr. Rap. 8(1): 241-251. Ref. 1950. 388 C765  
French summary.
- 32852 STEVENS, G. E. Avantages des turbines à grande vitesse dans l'industrie sucrière. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):518-520. 1950. 388 C765
- 32853 STORMS, J. La pratique de la cristallisation des bas-produits en cuite et en cristalliseur. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):522. 1950. 388 C765  
Sugar manufacture.
- 32854 TEATINI, D. Contribution à l'étude de la cuisson et des appareils à cuire. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):510. 1950. 388 C765  
Sugar manufacture.
- 32855 TETTAMANZI, A. The title contract and the quality of the pulp. (In Italian.) Italia Agr. 87:694-699. Nov.1950. 16 It1  
Contracts between beet growers and sugar producers.
- 32856 TULLIN, V. Colour formation in various stages of the manufacture of beet sugar. Cong. Internatl. des Indus. Agr. Rap. 8(1):227-240. 1950. 388 C765
- 32857 ULFHEDEN, T. Progres en technique thermique dans l'industrie sucrière suédoise. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):515-516. 1950. 388 C765
- 32858 U. S. PRODUCTION AND MARKETING ADMIN. The marketing of sugarcane in Puerto Rico, by M. E. Miller. Washington, 1950. 44 p. 1.956 Su3M343
- 32859 VALDEZ, E. The sugar industry in Ecuador: "Central Valdez." Sugar J. 13(8):8-10. Jan.1951. 65.8 Su391
- 32860 VALERI, G. M. Crystallization of sugar according to Kucharenko's formula. (In Italian.) Indus. Sac. Ital. 43:261-276. Sept./Oct.1950. 65.8 In23
- 32861 VANDEWYER, R. Le flocculat à l'alcool acétique des jus de diffusion. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):514. 1950. 388 C765
- 32862 VANDEWYER, R., and RENS, G. La mise en route d'une sucraterie vue du laboratoire. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):515. 1950. 388 C765
- 32863 VIGNON, A. Contribution à l'étude du bilan calorifique en sucrerie de betteraves. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):513-514. 1950. 388 C765
- 32864 VLIES, G. S. V. D. Quelques recherches sur l'épuration par échanges d'ions, du jus de betteraves. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):505. 1950. 388 C765
- 32865 VLIES, G. S. V. D. Traitement par échangeurs d'ions, de jus pre-épures. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):505-506. 1950. 388 C765  
In sugar manufacture.
- 32866 WESTERN STATES MACHINE CO. Le serpentin Stevens; le rechauffage des masses-cuites ce que c'est. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1): 520-522. 1950. 388 C765
- 32867 WESTLY, E. T. Philippine and Australian mill performances. Sugar News [Manila] 26:631-633. Nov. 1950. 65.8 Su36
- 32868 WILLAIME, G. D'une nouvelle méthode de suppression de vapeur applicable aux appareils à multiple effet. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):510. 1950. 388 C765  
Sugar manufacture.
- 32869 WILLIAMS, T. Sugar factory electrification. Rev. Agr. de l'Ile Maurice 29:219-223. Sept./Oct.1950. 24 M744
- 32870 ZERBAN, F. W., SATTler, L., and MARTIN, J. Spectrophotometric studies on refined sugars in solution. Analyt. Chem. 23:308-313. Ref. Feb.16,1951. 381 J825A

## TOBACCO

- 32871 ALCARAZ MIRA, E. La valorisation du tabac par les cultivateurs au moyen de la fermentation. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):568. 1950. 388 C765
- 32872 ALLEMEERSCH, J. F. VAN. Incidence de la fiscalité sur la structure économique de l'industrie du tabac. (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1): 580-581. 1950. 388 C765  
Belgium.
- 32873 AUSTIN, R. C. Government programs in tobacco. J. Farm Econ. 32:894-906. Nov.1950. 280.8 J822
- 32874 BENNETT, H., and COOMBER, H. E. Tobacco from Mauritius. Colon. Plant & Anim. Prod. 1:125-132. Apr./June 1950. 472 C71
- 32875 DORY, J. Importance du séchage et de la fermentation dans la production du tabac de cape de cigare, type "Sumatra." (Sum.) Cong. Internatl. des Indus. Agr. Rap. 8(1):568-569. 1950. 388 C765  
Belgian Congo.
- 32876 FRYD, C. F. M., and KIFF, P. R. The determination of moisture in tobacco. Analyst 76(898):25-32. Jan.1951. 382 An1
- 32877 GIOVANNONZZI, M. Italian contributions in the field of the study and technology of tobacco fermentation. (In Italian.) Tabacco 54:343-353. Nov./Dec.1950. 69.8 T115
- 32878 HEDRICK, W. P. What is the 1951 outlook for fluecured and burley tobacco? Prog. Farmer, Carolinas-Va. Ed. 66:18,85. Jan.1951. 6 P945
- 32879 JACKSON, E. L. Trends in the consumption of tobacco products, United States, 1900-1950. J. Farm Econ. 32:881-893. Nov.1950. 280.8 J822



- 32880 MARTIN, L. R. Some aspects of research in the marketing of tobacco leaf. *J. Farm Econ.* 32:907-930. Ref. Nov.1950. 280.8 J822  
Includes discussions by A. G. Conover and C. E. Gage.
- 32881 MATHEWS, G. R., and KITE, G. D. Flue-cured tobacco growers can improve curing methods. *South. Planter* 112:20-21,36. Jan.1951. 6 So89
- 32882 MATTHEWS, E. M., and BAKER, V. H. Forced ventilation in barns cuts curing costs. *Rhodesian Tobacco J.* 2(12):60-63. Dec.1950. 69.8 R34
- 32883 MEISNER, F. Immer noch schwierigkeiten beim absatz inländischer schneideguttobake. *Bad. Landwirt. Wchnbl.* 117:770-771. Nov.11,1950. 18 B142
- 32884 MEISNER, F. Ungenügende tabakpreise gegenüber der allgemeinen teurerung. *Bad. Landwirt. Wchnbl.* 117:826-827. Dec.2,1950. 18 B142
- 32885 ROLLIN, L. La valorisation du tabac par les planteurs au moyen de la fermentation. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):567. 1950. 388 C765
- 32886 SANTOVENIA, E. S. El tabaco de Cuba hace dos siglos. *Habano* 16(12):17-18. Dec.1950. 69.8 H11
- 32887 SMITH, M. O. Advantages of oil-fired curing of tobacco. *Rhodesian Tobacco J.* 2(11,12):55-57,59-62. Nov.1950. 69.8 R34
- 32888 U. S. BUR. OF AGRICULTURAL ECONOMICS. Analysis of methods of collecting data for tobacco market news. *Washington*, 1950. 11 p. 1.941 A22An1
- 32889 U. S. PRODUCTION AND MARKETING ADMIN. Proposed revision of the Tentative crop grades for unsorted Havana seed tobacco of type 52. *Washington*, 1950. 14 p. 1.956 T55P943
- 32890 U. S. PRODUCTION AND MARKETING ADMIN. Tobacco: acreage, yield, price per pound, farm value, production, stocks, supply, and disappearance, 1940-50. *Washington*, 1950. 1 p. 1.956 T55T5523
- 32891 VEN, R. VAN DER. Tobacco and chemistry. II. Carbohydrates in tobacco. (In Dutch.) *Tabaksplant* 78(3792):5-8. Jan.9,1951. 286.89 T114
- 32892 VORSTERMANS, H. G. P. A fool-proof system of tobacco grading. *Rhodesian Tobacco J.* 2(12):114-116. Dec.1950. 69.8 R34

## MISCELLANEOUS PRODUCTS

- 32893 BLOKMANIS, E. F. My method of curing salaka sprat. (In Russian.) *Rybnoe Khoz.* 26(11):50. Nov.1950. 414.8 R962
- 32894 BORGSTRÖM, G. Herring-delicatessen and marinated products (semi-sterile herring preserves). *Svenska Inst. i Konservförs. P.* 18,17 p. 1950. 389.9 Sv2
- 32895 ENDERS, C., KUCHINKE, E., and ZOCHER, A. Zur frage des bitteren geschmacks der hopfenbittersäuren. *Brauwissenschaft* 1950:225-226. Dec.1950. 390.8 B733
- 32896 FISCHER, C. W., JR., and KELLER, J. R. Flower shipments: rot in transit prevented by brominated activated charcoal. *Florists' Rev.* 107(2775):35-36. Feb.1,1951. 80 W41  
Also in *South. Florist & Nurseryman* 63(45):11-12. Feb.2,1951. 80 So86
- 32897 HAVIGHORST, C. R. How they process quick-frozen trout. *Food Indus.* 23:79-81,196,198. Jan.1951. 389.8 F737
- 32898 KRAMNIK, R. L., and TENIAKOV, A. I. New methods for curing the semifinished sprat product. (In Russian.) *Rybnoe Khoz.* 26(11):13-14. Nov.1950. 414.8 R962
- 32899 MARKELL, E. L. Those troublesome diversions. *Hopper* 1951:4-7. Jan.1951. 70.8 H77  
Hop marketing agreements.
- 32900 MARKELL, E. L. We are at war. *Hopper* 1951:7-8. Jan.1951. 70.8 H77  
Problems of the hops industry.
- 32901 MÜLLER, O. A., and STALDER, F. Beiträge zur gerbstoffbestimmung in vegetabilischen und synthetischen gerbextrakten. 4. *Leder* 1:210-213. Sept.15,1950. 303.8 L492
- 32902 PETELINA, A. L. Method of heat curing of salaka and kilka sprats. (In Russian.) *Rybnoe Khoz.* 26(11):14-16. Nov.1950. 414.8 R962
- 32903 RAGULIN, A. E. Salting fish in boxes. (In Russian.) *Rybnoe Khoz.* 26(10):44-46. Oct.1950. 414.8 R962

- 32904 REAY, G. A., and HOUSE, C. T. The freezing and cold storage of lobsters. *Food Mfr.* 26:23-27. Jan.1, 1951. 389.8 F736
- 32905 RECASENS, L. DE. Industrialización de la garrofa. *Cult. Mod.* 33:368. Oct.1950. 15 C89
- 32906 SCHLESINGER, W., and LEEPER, H. M. Chicle cis- and trans-polyisoprenes from a single plant species. *Indus. & Engin. Chem.* 43:398-403. Ref. Feb. 1951. 381 J825
- 32907 SHERER, S. J., and MILLER, L. J. Shipping flowers by air. 6. *Florists' Rev.* 107(2778):23-26. Feb. 22,1951. 80 W41
- 32908 THOMAS, P. H. Tasmanian hop industry. *Hopper* 1950:7-11. (To be cont.) Dec.1950. 70.8 H77
- 32909 VON OPPENFELD, H. A study of the retail florist business. *N. Y. Agr. Col. A. E.* 764,38 p. Jan. 1951. 281.9 C81

## AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

References on farm structures and rural housing are classified with Agricultural Engineering.

## GENERAL

- 32910 AULL, G. H. Economic prospects of the South. *J. Farm Econ.* 32:709-720. Nov.1950. Ref. 280.8 J822  
Discussion by R. W. Bierman, p. 735-736.
- 32911 BANDINI, M. Agriculture and industry. (In Italian.) *Agr. Ital.* 1:629-630. Dec.15,1950. 16 Ag822  
Relationships.
- 32912 BENNETT, H. G. Point Four and peace. *Foreign Agr.* 15:27. Feb.1951. 1.9 Ec7For  
Point Four program of the Economic Cooperation Administration.
- 32913 GARCIA VALVERDE, M. La investigación económica en Costa Rica. IV. Bibliografía estadística y demográfica de Costa Rica. *Costa Rica. Ofic. de Coordinación Econ. Solidadismo y Racionalización* 3(19):11-18. Sept./Oct.1950. 280.9 C82
- 32914 HJELM, L. The economic development during the year 1950. (In Swedish.) *Lantmannen* 34:1007-1009. Dec.30,1950. 11 L234  
Sweden.
- 32915 KELSO, M. M. Significant problems (other than in marketing) for agricultural economics research in the West. *West. Farm Econ. Assoc. Proc.* 23:11-16. 1950. 280.9 W527P
- 32916 KONDO, Y. *Nogyo keizai ron* [On the agricultural economy]. Tokyo, Jichosha, 1950. 225 p. 281 K832
- 32917 MEIER, O. W. Liberia's expanding economy. *Foreign Agr.* 15:29-31. Feb.1951. 1.9 Ec7For
- 32918 MURDOCK, O. Far West wonders and hopes. *Farm Impl. News* 72:65,112. Jan.10,1951. 58.8 F22  
Economic outlook for agriculture.
- 32919 PEDERSEN, O. B. The international situation and its effect on American agriculture. (In Danish.) *Denmark. Landbræadet. Meddel.* 52:1276-1280. Dec.29, 1950. 11 D415L
- 32920 ROGER, C. L'integration des économies européennes et des industries agricoles. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):579-580. 1950. 388 C765
- 32921 THE NATIONAL Institute of Agricultural Economy (I. N. E. A. [Istituto Nazionale di Economia Agraria]). *Rev. Econ. Cond. Italy* 5:40-48. Jan.1951. 280.8 R3236
- 32922 WESTERN FARM ECONOMICS ASSOCIATION. Proceedings, twenty-third annual meeting, June 28, 29, 30, 1950, Pullman, Washington and Moscow, Idaho. Berkeley, Calif., 1950. 168 p. 280.9 W527P

## AGRICULTURAL FINANCE

- 32923 CAVINA, R. Establish your reserve fund. (In Portuguese.) *Seleç. Agr.* 5(56):41-42. Dec.1950. 9.2 Se4  
In farm management.
- 32924 JAPAN. DEPT. OF AGRICULTURE AND FORESTRY. SECRETARIAL INVESTIGATION SECT. Characteristics of agricultural, forestry and fishery finance, their present conditions and related materials. (In Japanese.) n.p., 1950. 93 p. 284 J272



Credit

- 32925 BANCO AGRICOLA Y PECUARIO. Informe anual 1949. Caracas, 1950. 127 p. 284.29 B224I
- 32926 BARGER, J. W. Twelve rules for borrowing money. Prog. Farmer, Tex. Ed. 66:44-45. Jan. 1951. 6 T311
- 32927 BERNARD, P. Il en faut de l'argent pour reprendre une ferme! Monit. Agr. 4(143):1-2. Jan. 7, 1951. 14 M744
- Credit and costs and returns in France.
- 32928 BURZLAFF, H. Das pfandrecht an landwirtschaftlichen fruchten. Kartoffelwirtschaft 3:445. Nov. 10, 1950. 286.83 K14
- Germany.
- 32929 CAMPBELL, W. W. The farmer, the banker and defense. Ark. Banker 34(10):14, 16-17. Jan. 1951. 284.8 Ar4
- Credit policy.
- 32930 FASSETTA, L. Financing of reclamation projects in Venetia. (In Italian.) Agr. delle Venezie 4:359-362. Oct./Dec. 1950. 16 Ag862
- 32931 FELTON, R. A. St. Mary's Church Credit Union "sells service to members." Ohio Farmer 207(2):12-13. Jan. 20, 1951. 6 Oh3
- 32932 LAPLANTE, R. Le crédit agricole du Quebec. Terre de Chez Nous 22(48):2, 12. Jan. 24, 1951. 7 T27
- 32933 MÜLLER, L. Die ausgestaltung unserer Raiffeisenkassen-ein dringendes gebot! Landwirtschaft 1950:346-347. Dec. 1950. 19 L235
- 32934 NORTH CENTRAL LAND TENURE RESEARCH COMMITTEE. FARM LAND PRICES SUBCOMMITTEE. Improving land credit arrangements in the Midwest. Ind. Agr. Expt. Sta. B. 551, 52 p. June 1950. 100 In2P
- 32935 REICH, B. The Farmers Home Administration. Calif. Farm Rptr. 11(12)/12(1):3. Dec. 1950/Jan. 1951. 281.8 C12
- 32936 SIVARAMAN, V. Indigenous bankers and co-operative banks. Agr. Econ. 2:5-10. Sept. 1950. 281.8 Ag832
- India.
- 32937 SOCIEDAD DE AGRICULTORES DE COLOMBIA. COMITÉ DE CRÉDITO RURAL. Informe sobre los problemas crediticios de Colombia. Rev. Nac. de Agr. 44(548):9-14. Dec. 1950. 9.4 R32
- 32938 TINDALL, C. Use credit as a tool for farming. Mo. Rur. 92:6-7, 18. Jan. 13, 1951. 6 R8891
- 32939 UNITED NATIONS. ECONOMIC AND SOCIAL COUNCIL. ECONOMIC COMMISSION FOR LATIN AMERICA. Agricultural credit in Central America [Report of the ECLA/FAO Cooperative Unit]. New York, 1950. 6 p. (United Nations. [Doc.] E/CN. 12/167) 284.2 Un394A
- 32940 UNITED NATIONS. ECONOMIC AND SOCIAL COUNCIL. ECONOMIC COMMISSION FOR LATIN AMERICA. Agricultural credit in Nicaragua. New York, 1950. 29 p. (United Nations [Doc.] E/CN.12/167/Add.5) 284.2 Un394An
- 32941 U. S. COMMODITY CREDIT CORPORATION. Report of the president, 1949/50. Washington, 1950. 22 p. 1 C731

Income

- 32942 COLLISON, C. F. Farm wealth up in spite of Korea, rise due to increased prices. Com. West 101(5):8. Feb. 3, 1951. 286.8 C733
- 32943 JACOB, A. W., and ENIX, J. R. Outlook indicates higher income and expenses for Oklahoma farmers in 1951. Farmer-Stockman 5:48. Jan. 1951. 6 Ok45
- 32944 PICKETT, J. Farm gross hits \$2 1/4 billion for 1950. Calif. Farmer, North. Ed. 194:87. Jan. 27, 1951. 6 C126
- 32945 SALA, E. Hat es Amerika wirklich besser? Deut. Wirtgeflügelzucht. 3:91-92. Nov. 25, 1950. 47.8 D483
- Chiefly on farm income.
- 32946 U. S. BUR. OF AGRICULTURAL ECONOMICS. The size distribution of farm cooperators' income in 1946, by N. M. Koffsky and J. E. Lear. Washington, 1950. 32 p. 1.941 F2S19

Inflation

- 32947 CLODIUS, R. L. Controlling inflation. Wis. Agr. Col. Ext. Econ. Inform. Wis. Farmers. Spec. C. 21(10/11), 4 p. Oct./Nov. 1950. 275.29 W75Ec

Insurance

- 32948 ALTEMEYER, A. J. Regular farm workers now eligible for social security. Oreg. Grange B. 50(15):1-2. Jan. 5, 1951. 6 Or3
- 32949 BARRAU, J. Au sujet des secours aux victimes des calamités agricoles. Rev. Agr. de la Nouvelle-Calédonie (n.s.) 1(9/10):2-3. Sept./Oct. 1951. 25 R322
- Insurance.
- 32950 CERNOWSKY, W. Schiedsgericht für sozialversicherung. Landwirtschaft 1950:289. Oct. 1950. 19 L235
- Austria.
- 32951 CHAPRON, C. L'état ferait-il mieux que la mutualité agricole? Unité Paysanne 5(266):1, 5. Dec. 30, 1950. 14 Un3
- France.
- 32952 CHAPRON, C. Les problèmes de la mutualité agricole. Unité Paysanne 6(267):1, 6. Jan. 6, 1951. 14 Un3
- France.
- 32953 CHAPUIS, B. A. Financement et construction de la sécurité sociale agricole. II. Monit. Agr. 4(143):6. Jan. 7, 1951. 14 M744
- France.
- 32954 COGOTTI, A. Determination of unified agricultural contributions. II. (In Italian.) Sardegna Agr. 28 (37/38):3. Nov. 30, 1950. 16 Sa7
- 32955 HART, S. H., and EMBREE, W. D., JR. Social security as it applies to the rancher and farmer. Amer. Hereford J. 41(18):50, 64-66. Jan. 15, 1951. 43.8 Am32
- 32956 U. S. FEDERAL CROP INSURANCE CORPORATION. All risk crop insurance, by J. L. Buckler. Washington, 1950. 65 p. 1.952 AL5
- 32957 U. S. FEDERAL CROP INSURANCE CORPORATION. Estimated losses by annual yields, standard deviation-25 o/o. Washington, 1950. 3 p. 1.952 Es8

Taxation

- 32958 ALLYN, M. S. Your income tax; here is the way to report Washington Co-op special payments. Washcoegg 28(8):14-15. Jan. 1951. 47.8 W27
- 32959 AMANN, F. Lastenausgleich und agrarpolitik. Bad. Landwirt. Wchnbl. 117:833. Dec. 2, 1950. 18 B142
- 32960 CANINA, A. G. Historical notes on wine taxation and present problems of the grape and wine industry (In Italian.) Cron. Econ. 93:8-12. Nov. 15, 1950. 280.8 C882
- 32961 CO-OPS and income taxes. Coop. Digest 11 (6a):19-20. Dec. 1950. 280.28 C7896
- 32962 CROCE, R. The [communal] administrations against the peasants. (In Italian.) Mezzogiorno Agr. 6 (48):1-2. Dec. 9/16, 1950. 16 M57
- Taxation.
- 32963 DOANE, D. H. How to give your farm to your heirs, not to estate taxes. Successful Farming 49(2):39, 66-68. Feb. 1951. 6 Su12
- 32964 GOUGH, B. L. What losses can you claim? Income tax time poses questions poultrymen will want answered. Amer. Poultry J. 82:7, 20. Jan. 1951. 47.8 Am32
- 32965 HALL, I. F. Questions and answers on farm income tax. Hoard's Dairyman 96:134. Feb. 10, 1951. 44.8 H65
- 32966 HALL, I. F. Questions and answers on your 1950 income tax. Hoard's Dairyman 96:18. (Concl.) Jan. 10, 1951. 44.8 H65
- 32967 HART, S. H., and EMBREE, W. D., JR. Capital gains tax decision significant; cattlemen have reason for encouragement that their stand will prevail as another United States Court of Appeals returns decision in favor of taxpayers. Amer. Hereford J. 41(19):39, 118 B. Feb. 1, 1951. 43.8 Am32
- 32968 HART, S. H., and EMBREE, W. D., JR. U. S. Circuit Court in Texas favors stockmen in capital gains decision. Calif. Cattleman 1951:12-13. Feb. 1951. 43.8 C12
- 32969 KAMMERMAN, R. Don't over-pay your income tax. Hatchery & Feed 25(2):22-24. Feb. 1951. 47.8 H28
- 32970 LEIBFRIED, E. Wann kommt der endgültige lastenausgleich? Bad. Landwirt. Wchnbl. 117:745-746. Nov. 4, 1950. 18 B142
- 32971 MILLER, J. R. Producers can save on their income tax. Natl. Live Stock Prod. 29(4):12, 19. Jan. 1951. 280.38 N21



- 32972 MINNICH, R. Committee on Washington income taxes for the rabbit breeder. *Amer. Small Stock Farmer* 35(4):14. Jan.1951. 48.8 J82
- 32973 NORMANN. Der lastenausgleich als krisen- und gefahrenherd. *Landwirtsbl. Weser-Ems* 97:1051-1052. Dec.14,1950. 18 L2345
- 32974 ROSELL, D. Z. Land classification, valuation, and assessment for land taxation in the Philippines. *Soil Sci. Soc. Philippines. J.* 2:238-248. Fourth Q.1950. 56.9 So35
- 32975 SIJTSMA, P. Tax revision 1950 and agriculture. XV. (In Dutch.) *Boer en Tuinder* 4(206):6;(207):6. Dec.30,1950-Jan.6,1951. 12 B632 Netherlands.  
Also in *Friesch Landbbl.* 47:786. Dec.15,1950. 12 F91
- 32976 STELLING, H. Die Körperschaftssteuer der molkerelgenossenschaften. *Molk.-Ztg.* 4:1335-1336. Nov.9,1950. 44.8 M735 Germany.
- 32977 STRUNZ. Besatzungskostenbeitrag 1950 für Kleinbauern erleichtert. *Landwirtschaft* 1950:368. Dec.1950. 19 L235 Austria.
- 32978 STRUNZ, H. Besteuerung von Erbverzicht. *Landwirtschaft* 1950:318-319. Nov.1950. 19 L235 Austria.
- 32979 TURNER, W. L., and others. Farmer's 1950 income tax. *Okla. Agr. Col. Ext. C.* 421-A,24 p. Nov. 1950. 275.29 Ok41C  
E. D. Chastain, Jr., L. M. Schruben and E. P. Callahan, joint authors.
- 32980 U. S. S. R. SOVET MINISTROV. O provedenii uborki urozhaia i zagotovok sel'skokhoziaistvennykh produktov, 1950 [On carrying out the harvesting of the crop and the procurements of agricultural products in 1950]. *Moskva*, 1950. 35 p. 281.9 Un332  
Vsesoiuznaya Kommunisticheskaya Partiya (bol'shevikov) Tsentral'nyi Komitet cooperating.
- 32981 URBANO FERNÁNDEZ, R. Consideraciones generales sobre tasaciones. *Res* 18:25529-25530. Dec.5,1950. 286.85 R31 Argentina.
- AGRICULTURAL LABOR AND WAGES**
- 32982 BAVARIA. STATISTISCHES LANDESAMT. Die vertriebenen in Bayern: ihre berufliche und soziale eingliederung bis anfang 1950. *Bayer. Statist. Landesamt. Beitr. z. Statist. Bayerns* 151,71 p. 1950. 265 B325  
Includes statistics of agricultural laborers.
- 32983 BOTTINI, R. N. Wages in lieu of proper notice. *Land Worker* 32(380):3-4. (Cont.) Jan.1951. 283.8 L22 Great Britain.
- 32984 CLAMPITT, W. Planning makes chores easier. *Wallaces' Farmer & Iowa Homestead* 76(2):20-21. Jan.20,1951. 6 W15  
Labor-saving methods.
- 32985 CLEAVER, T. Observe dairies before and after changes. *Purdue U. Work Simplification News Let.* 21:14-15. Nov.1950. 281.9 p97  
Work management.
- 32986 DAVIS, J. F. Some notes on manure handling. *Purdue U. Work Simplification News Let.* 21:17-18. Nov. 1950. 281.9 p97  
Time and motion studies.
- 32987 DÖSSING, P. The farm population and farm labor. (In Danish.) *Tidsskr. f. Landøkon.* 1950:593-604. Dec.1950. 11 T43
- 32988 HECHT, R. W., and BARTON, G. T. Gains in productivity of farm labor. *U. S. D. A. Tech. B.* 1020, 121 p. Ref. Dec.1950. 1 Ag84Te
- 32989 INTERNATIONAL LABOR CONFERENCE. 33d. GENEVA, 1950. Labour problems in agriculture; general report. *Geneva, International Labour Off., 1950.* 72 p. (Its Report 6) 283 In233L
- 32990 ISSLER, A. R. New hope for the migrant? *Survey Midmon.* 87:79-80. Feb.1951. 280.8 C37 California.
- 32991 JENKINS, I. They served the land; a tribute to the work of the Women's Land Army, 1939-50. *Gt. Brit. Min. Agr. Agriculture* 57:403-407. Dec.1950. 10 G79J
- 32992 LAMB, R. It is hard to find work in Italy. *Farmer & Stock-Breeder* 64:3356. Dec.26,1950. 10 F228  
Comparison between the farm wages and conditions of Italy and England.
- 32993 LARUE, W. C. York County demonstrates a miracle of teamwork. *Prog. Farmer, Carolinas-Va. Ed.* 66:16,77. Jan.1951. 6 P945  
Features of the York County (S. C.) United Agricultural Workers.
- 32994 MANZINI, P. The labor contract and the requirements of labor. (In Italian.) *Not. Agr. [Mantova]* 6(38):1. Sept.29,1950. 16 N845 Italy.
- 32995 MARSHALL, B. The art of cowmanship. *Home Farmer* 17(12):8-9,16. Dec.1950. 280.344 H75
- 32996 MERCIER, J. Travail et prestations de la main-d'oeuvre en agriculture et en horticulture. *Cour. Hort.* 12:676-677. Dec.1950. 80 C834
- 32997 PANNUN, M. S. Origin and history of agricultural labour. *Agr. Econ.* 2:11-13. Sept.1950. 281.8 Ag832 India.
- 32998 PIEL-DESRISSAUX, J., and BRETON, J. F. L'organisation du travail dans les cooperatives laitières. (Sum.) *Cong. Internat. des Indus. Agr. Rap.* 8(1):578. 1950. 388 C765 France.
- 32999 PRAX, A. Les congés payés en agriculture. *Prog. Agr. et Vitic.* 1951:42-45. Jan.21/28,1951. 14 P94
- 33000 SCHOBEL, A. Der landarbeitler einst und jetzt. *Pflug* 3:244. Nov.1950. 19 P48 Austria.
- 33001 SECHRIST, E. L. Why I got tired. *Gleanings Bee Cult.* 79:91-92. Feb.1951. 424.8 G47  
Time and motion studies in the apiary.
- 33002 SHAY, F. M. Farm labor shortage again impends; early action at State level likely. *Sunsweet Standard* 34(8):8. Jan.1951. 286.83 Su7
- 33003 STACY, C. How labour costs can be reduced. *Poultry [London]* 108:30. Jan.9,1951. 47.8 P869
- 33004 STODART, J. A. End the wages muddle! *Farmer's Wk. [London]* 34(2):45. Jan.12,1951. 10 F2226  
Situation in Great Britain with particular reference to Scotland.
- 33005 TIVOLI, M. Culture paysanne et comptabilité. *Cerca* 24(209):14-15. (To be cont.) Nov./Dec.1950. 105.3 An4C  
Work records.
- 33006 U.S.S.R. VERKHOVNYĖ SOVET. PREZIDIUM. Ukaz Prezidiuma Verkhovnogo Soveta SSSR o prisvoenii zvania Geroia Sotsialisticheskogo Truda i nagrazhdenii ordenami i medaliami SSSR kolkhoznikov, rabotnikov MTS i sovkhozov za poluchenie vysokikh urozhaev khlopka v Ukrainской SSR, Moldavской SSR i fuzhnykh raionskh RSFSR v 1950 - 1951 godakh [Decree of the Presidium of the Supreme Council of U.S.S.R. on awarding honors of Heroes of Socialist Labor and rewarding with orders and medals of U.S.S.R. collective farmers, workers of machine-tractor stations and state farms for obtaining high yields of cotton in Ukrainian and Moldavian SSR's and in southern districts of RSFSR in 1950-1951]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 113 p. 283 Un39992
- 33007 U. S. FARM PLACEMENT SERV. Handbook for Farm Placement Service. *Washington*, 1950. 77 p. 158.31 H19
- 33008 WELCH, F. J., and MILEY, D. G. Cotton labor requirements. *J. Farm Econ.* 32:752-758. Nov. 1950. 280.8 J822  
Discussion by B. T. Lanham, Jr., p. 770-772.
- AGRICULTURE -SITUATION, POLICIES AND PROGRAMS**
- 33009 THE Arkansas story. *Mfr. Rec.* 120(2):65-104. Feb.1951. 297.8 M31  
Includes agriculture.
- 33010 ARTAUD. Les plects sur les chenets. *Terre d'Occ* 33:6-8. Jan.1951. 14 Ar5  
Agricultural problems.
- 33011 BÄGGLI, W. Koordinationspunkte von landwirtschaft und exportindustrie. *Agrarpolit. Rev.* 7:145-151. Dec.1950. 281.8 Ag824
- 33012 BAKER, H. R. Farm outlook bright for '51. *Prog. Agr. Ariz.* 2(4):3,12. Jan./Mar.1951. 6 P9452
- 33013 BALLENTINE, L. Y. The agricultural outlook for 1951. *Tarheel Banker* 29(8):13-14. Feb.1951. 284.8 T17 North Carolina.



- 33014 BAQUÉ, Z. L'Armagnac. Terre d'Oc 33:2-5. (To be cont.) Jan.1951. 14 Ar5  
Agriculture.
- 33015 BARCKSDALE, W. E. Our United States—Mississippi. Ariz. Cattlelog 6(4):54-58. Dec.1950. 43.8 Ar42  
Includes agriculture.
- 33016 BARR, G. W. Arizona agriculture, 1951. Ariz. Agr. Expt. Sta. B. 232, 17 p. Jan.1951. 100 Ar4
- 33017 BARROS JARPA, E. El productor debe ser alentado por el aire sano de la libertad. Campesino [Santiago] 82(11):15-16. Nov.1950. 9.3 So12  
Chile.
- 33018 BAUMAN, R. H. Irish agriculture in the 20th century. Beet Grower 4:257-260. Jan.1951. 66.8 B392
- 33019 BENFORD, H. Our farm plans for 1951. Prog. Farmer, Ga.-Ala.-Fla. Ed. 66(2):122-123. Feb.1951. 6 P945G
- 33020 BERTHAULT, P. La crise agricole. Rev. Agr. de l'Afrique du Nord 48:815-819. Nov.10,1950. 80 R326
- 33021 BERTHAULT, P. La situation agricole en Afrique du Nord. Algérie Agr. et Vitic. 29(1149):1. Jan. 6,1951. 24 AL37
- 33022 BISHOP, J., JR., and RATCHFORD, C. B. North Carolina's better farms plan. Banking 43(8):56-57. Feb.1951. 284.8 Am3  
Agricultural program.
- 33023 BLANCO, G. Agriculture in Mexico. Wash., Div. Agr. Conserv., Pan Amer. Union, 1950. 52 p. (Amer. Agr. Ser.) 150.91 B59
- 33024 BLEWETT, W. V. Agricultural development in Tropical Africa. Roy. Soc. Arts. J. 98:791-813. Aug.11, 1950. 501 L847J  
Includes discussion.
- 33025 BONOMI, P. To the Italian farmers at the threshold of 1951. (In Italian.) Agenzia Romana Note e Inform. Agr. 1951:1-2. Jan.4,1951. 281.8 Ag3
- 33026 BOTTUM, J. C. Adjustment problems in Midwest agriculture. J. Farm Econ. 32:788-800. Nov.1950. 280.8 J822  
Includes discussion by J. E. Wills.
- 33027 BREKKE, A. Development of agricultural policy. J. Farm Econ. 32:839-856. Ref. Nov.1950. 280.8 J822
- 33028 BURGOS L., J. A. Informe del viaje a los Ríos Tambo, Alto Ucayali y Urubamba. Mensajero Agr. 50:34-36; 51:52:31,46. (Cont.) June-July/Aug.1950. 9.8 M52  
Agriculture.
- 33029 CALKINS, R. D. Strategic approaches to southern progress. J. Farm Econ. 32:697-708. Nov. 1950. 280.8 J822  
Includes agricultural programs.
- 33030 CARRIGAN, J. E. The agricultural situation in Ireland. Vt. U. & State Agr. Col. Dept. Anim. & Dairy Husb. Papers Presented Conf. Dairy Plant Oper. & Milk Distrib. 29:65-69. 1950. 44.9 V593
- 33031 CAZAUX, J. V. Organisation de la production agricole à Madagascar. Cour. Agr. 15(26):4. Dec.20, 1950. 24 C83
- 33032 CESARD, L'agriculture suisse. France. Min. de l'Agr. Rev. Études & Monog. 1950:225-243. Ref. Nov.1950. 281.8 F84
- 33033 CHAPMAN, P. W. North Carolina's amazing farm progress 1900-1950: how come? Prog. Farmer, Tex. Ed. 66:17,80-81. Jan.1951. 6 T311
- 33034 CHAPMAN, P. W. Prosperous Texas. Prog. Farmer, Tex. Ed. 66(2):44-46. Feb.1951. 6 T311  
Includes developments in agriculture.
- 33035 CIPRIANO, T. El ejercicio agrario productor 1 económico de 1950. I. Acción Agr. [Guayaquil] 15(31): 5. Jan.1951. 281.8 Ac2  
Ecuador.
- 33036 CIZIK, V. Hebrew agricultural terminology. (In Hebrew.) Hassadeh 30:726. Sept.1950. 26 H27
- 33037 COHIC, F. Aperçu agricole sur les îles Wallis et Futuna. Rev. Agr. de la Nouvelle-Calédonie (n.s.)1(9/10):3-7. Sept./Oct.1950. 25 R322
- 33038 CONDICIONES predominantes en la agricultura durante el año 1949-50. Banco Agr. y Pecuário. Rev. 16/17:66-74. Jan.1950. 284.29 B224R  
Venezuela.
- 33039 CONFÉRENCE INTERNATIONALE AFRICAINE SUR L'ÉCONOMIE INDIGÈNE RURALE, 1949. Rapport final. Agron. Trop. 5:622-633. Nov./Dec.1950. 26 Ag86
- 33040 CONGRÈS DES INGÉNIEURS COLONIAUX, PARIS, 1949. Résumé des mémoires. Agron. Trop. 5: 647-648. (Cont.) Nov./Dec.1950. 26 Ag86
- 33041 CONGRÈS INTERNATIONAL DES INDUSTRIES AGRICOLES, 8, BRUSSELS, 1950. Rapports, v. 1. Bruxelles, Commission Nationale Permanente des Industries Agricoles, 1950. 596 p. 388 C765
- 33042 CONVENTION reaffirms stand for full farm parity, low-cost credit. Farmers Union Herald 24(22):3. Nov.20,1950. 280.28 F224  
Minnesota Farmers Union.
- 33043 COPE, C. The sweep of change; personal observations of the Southeast. Land 9:535-537. Winter 1950/51. 279.8 L22  
Agriculture.
- 33044 CUENOT, G. La situation de l'agriculture en Argentine. Terre Marocaine 24:503-510. Dec.1950. 24 T44
- 33045 DILLON, E. L'agriculture britannique et la politique agricole travailliste. Agence France-Presse. Inform. et Doc. 320:21-23. Dec.2,1950. 280.9 Ag3
- 33046 DOLL, R. J., and CASTLE, E. Suggested adjustments for southwestern Kansas agriculture. Kans. Agr. Expt. Sta. C. 267, 34 p. Nov.1950. 100 K13S
- 33047 DONALD, ROSS & CO. Industrial survey of the resources of the Province of Newfoundland. Montreal, 1950. 2 v. 280.134 D71  
Agriculture, v. 2, p.71-83.
- 33048 DORION, P. A. L'agriculture dans le comté de St-Maurice. Terre de Chez Nous 22(49):6-7. Jan.31, 1951. 7 T27  
Canada.
- 33049 DORST, J. D. "Kill or cure"; great activity in the field of agriculture in Zealand. (In Dutch.) Zeeuwsch Landbbl. 39(2051):2. Dec.30,1950. 12 Z2
- 33050 EASTERBROOK, L. F. British agriculture. Ed. 4, rev. London, Longmans, 1950. 56 p. (British Life and Thought [No. 16]) 281.171 Ea7B
- 33051 EVANS, SIR G. The future prospects for agricultural development in the colonies. Nottingham, U. Nottingham, 1950. 10 p. (Cust Foundation Lecture, 23) 281.171 Ev1
- 33052 FANNING, J. W. Good farming will pay in 1951. Prog. Farmer, Ga.-Ala.-Fla. Ed. 66(2):18,130. Feb.1951. 6 P945G
- 33053 FEIN, Z. A survey of the Harod Valley. (In Hebrew.) Hassadeh 30:695-697. Sept.1950. 26 H27
- 33054 FONDARD, L. Le Plan Monnet en agriculture et ses moyens de réalisation. Réveil Agr. 60(2594):2. Jan.1,1951. 14 R322
- 33055 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. 1949 annual report from Norway to the Food and Agriculture Organization of the United Nations. Oslo, 1949. 59 p. 389.9 F7353No
- 33056 FOSTER, T. Joe Carrigan in Eire. Land 9: 509-514. Winter 1950/51. 279.8 L22  
Agricultural rehabilitation under the Marshall Plan.
- 33057 FURUYA, K. Nogyo no kisochishiki [Basic knowledge of agriculture]. Tokyo, Buntoku Sha, 1950. 112 p. 30 F98
- 33058 GAZTAMBIDE ARRILLAGA, C. Según esté la agricultura del país así estará Puerto Rico. Rev. del Café 6(5):11-12. Oct.1950. 8 R3295
- 33059 GOSS, A. S. Let the farmer produce. Land 9: 553-555. Winter 1950/51. 279.8 L22
- 33060 GOSS, A. S. Master's address, for delivery before the 84th annual session of the National Grange at Minneapolis, Minnesota, November 15, 1950. n.p., 1950. 52 p. 4 P272Ad  
Agricultural policy.
- 33061 GOVIN, L. Images et impressions d'Amérique. Génie Rur. 43:400-403. Dec.1950. 58.8 Au8  
Agriculture.
- 33062 GRANDPERRIN, E., GUYOT, L., and QUILLIET, G. Sciences appliquées et travaux pratiques. New ed. Paris, Colin, 1950. 333 p. 30.2 G76  
Agricultural.
- 33063 GT. BRIT. ECONOMIC INFORMATION UNIT. New horizons in the East; the Colombo plan for co-operative economic development in South and South-East Asia. London, Stationery Off., 1950. 40 p. 280.18 G79  
Includes agricultural planning.



- 33064 GREAT BRITAIN. OVERSEAS FOOD CORPORATION. Annual report and statement of accounts for the year ended 31st March, 1950. London, 1950. 121 p. 389.9 G797  
Agricultural policy in East Africa.
- 33065 GUARDIOLA, L. La agricultura y la floricultura de la Maresma. C  m. Ofic. Sind. Agr. de Barcelona. B. 5:281-284. (Concl.) Nov. 1950. 15 C14
- 33066 GUSLER, G. Looking into '51. Mich. Farmer 215:5,29. Jan. 6, 1951. 6 M58  
Also in Farmer [St. Paul], Gen. Ed. 69:6,10. Jan. 6, 1951. 6 F2211; Ohio Farmer 207:3,28. Jan. 6, 1951. 6 Oh3
- 33067 HAZLEWOOD, A. Problems of Israel's economy. Oxford. U. Inst. Statist. B. 12:361-374. Dec. 1950. 280.9 Ox2B  
Includes agriculture.
- 33068 HOBSON, K. Farm outlook—big Northwest wheat crop, better dairy prices, strong livestock market ahead. Newwest. Farm News 34(3):5. Jan. 18, 1951. 275.293 N81
- 33069 HOFSTEE, E. W. Social aspects of agricultural policy. (In Dutch.) Overijsselsch Landbbl. 32(1584): 14. Dec. 23, 1950. 12 Ov2  
Also in Drents Landbbl. 31(50):14. Dec. 23, 1950. 12 D812
- 33070 HOMAN, J. L. Agriculture in the Western Europe area of cooperation. (In Dutch.) Plattelands-Post 7(2):3. Jan. 13, 1951. 12 P69
- 33071 HUFFMAN, G. H. Contribution of the United States toward implementing the cultural agricultural program in Italy. (In Italian.) Agr. Ital. 1:631-632. Dec. 15, 1950. 16 Ag822  
European Recovery Program.
- 33072 INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT. Bases de un programa de fomento para Colombia. Rev. Nac. de Agr. 44(547):7-11, 13-16. Nov. 1950. 9.4 R32  
Report of a mission directed by Lauchlin Currie, in collaboration with the Government of Colombia.  
Includes agriculture.
- 33073 JAGGI, E. Die schweizerische landwirtschaft im rahmen einer landwirtschaftlichen zusammenarbeit in Europa. Agrarpolit. Rev. 7:154-161. Dec. 1950. 281.8 Ag824
- 33074 JOHNSON, D. G. Coming developments in agricultural policy. n.p., 1950. 15 p. 281.12 J63  
Also in J. Farm Econ. 32:827-838. Nov. 1950. 280.8 J822
- 33075 KINNERSLEY, D. J. Agricultural development in France. Gt. Brit. Min. Agr. Agriculture 57:383-387. Nov. 1950. 10 G79J
- 33076 KNAVS, K. Prosperity through agriculture. Agr. Econ. 2:18-21. Sept. 1950. 281.8 Ag832  
Pakistan.
- 33077 KONDO, Y. Nogyo seisaku [Agriculture policy]. Tokyo, Yuhikaku, 1950. 324 p. 34.3 K83
- 33078 KRAUSE, H. Measuring the volume of agricultural production. J. Farm Econ. 32:604-623. Nov. 1950. 280.8 J822
- 33079 LAFORET, H. Le Congr  s de Strasbourg de la Conf  d  ration Europ  enne de l'Agriculture. Rev. Agr. de l'Afrique du Nord 48:825-827, 849-851. Nov. 10-17, 1950. 80 R326
- 33080 LANGENEGGER, R. Schweizer agronomen im ausland: reiseeindr  cke und erfahrungen eines jungen lng. agr. in Kanada und USA. Schweiz. Landwirt. Monatsh. 28:426-430. Dec. 20, 1950. 17 Sch93
- 33081 LANGSFORD, E. L. Over-all adjustment in Southern agriculture. J. Farm Econ. 32:773-787. Nov. 1950. 280.8 J822  
Includes discussion.
- 33082 LESPERANCE, R. Les conditions de l'agriculture dans le New-Hampshire. 2. Terre de Chez Nous 22(48):9,21. Jan. 24, 1951. 7 T27
- 33083 MCCOY, H. B. The defense production program gets underway. Amer. Egg & Poultry Rev. 12:10, 12, 101. Jan. 1951. 47.8 Am33  
Work of National Production Authority. Includes agriculture.
- 33084 MCLEOD, D. Food, farmers and the future. Lincoln Col. Rur. Educ. B. 5:122-126. Sept. 1950. 109 C162  
Productive capacity of New Zealand agriculture.
- 33085 MANSHOLT, S. L. Agricultural policy within and beyond our borders. (In Dutch.) Zeeuwisch Landbbl. 39(2050):3-4. Dec. 23, 1950. 12 Z2
- 33086 MARIANO, J. A. Agricultural possibilities of Bukidnon Province. Soil Sci. Soc. Philippines J. 2:261-267. Fourth Q. 1950. 56.9 So35
- 33087 MARSILY, E. DE. L'agriculture industrielle—et la guerre! Terre d'Oc 33:8-14. Jan. 1951. 14 Ar5
- 33088 MARTIN, P. Fin d'ann  e. Bas-Rhin Agr. 5: 629-630. Dec. 30, 1950. 14 B29  
Agriculture.
- 33089 METIVIER, S. R  flexions sur l'  volution de notre agriculture. D  fense Agr. de la Beauce et du Perche 47:476-477. Dec. 23, 1950. 14 D36
- 33090 MUTHESIUS, K. Probleme der westdeutschen landwirtschaft. Z. f. Raumforsch. 1950:249-253. 282.8 Z3
- 33091 MYERS, W. I. American agriculture at mid-century. (Condensed.) Calif. Citrog. 36:134,150,152. Feb. 1951. 80 C125
- 33092 MYERS, W. I. Farm cooperative agricultural outlook for 1951. (Sum.) Coop. Digest 11(7a):16,23. Jan. 15, 1951. 280.28 C7896
- 33093 NAUTA, L. With a cattle transport to Israel. (In Dutch.) Friesch Landbbl. 47:802-803. Dec. 22, 1950. 12 F91  
Agriculture in Israel.
- 33094 NERIO, K. Shin noka brinran [New handbook for the farmer]. Tokyo, Fumin-Sha, 1950. 250 p. 34.3 N35
- 33095 NIKLAS, Zwischen den jahren. Bad. Landwirt. Wchnbl. 117:901-902. Dec. 31, 1950. 18 B142  
Agricultural.  
Also in W  rttemb. Wchnbl. f. Landwirt. 117:1169-1170. Dec. 30, 1950. 18 W96
- 33096 PAGANI, A. Protection to agriculture. (In Italian.) B. dell' Agr. 84(25):1-2. Dec. 29, 1950. 16 B87  
Italian agricultural policy.
- 33097 PARVIN, F. W. State farm outlook—"big prices, high costs." Fla. Grower 59:10,18. Jan. 1951. 80 F6622
- 33098 PFLIMLIN, La s  curit   dans l'abondance. B. des Engrais 326:187-189. Dec. 1950. 57.8 B87  
French agricultural policy.
- 33099 PICKETT, J. Big breathtaking San Bernardino County. Calif. Farmer, South. Ed. 194:26-27. Jan. 13, 1951. 6 C126A  
Includes the agriculture of the county.
- 33100 POMAR, L. M. Mis impresiones sobre Italia. Balearic Isl. Diputaci  n Prov. B. de Agr. 74:5. Nov. 1950. 15 B19  
Agriculture.
- 33101 POTOMAC GRANGE NO. 1, PATRONS OF HUSBANDRY, WASHINGTON, D. C. Maintaining economic stability in agriculture, report of a special committee. Washington, 1950. 6 p. 281.12 P84
- 33102 POZZO ARDIT, L. Los agricultores escandinavos. Agrotecnia 4:61-64. Sept./Dec. 1950. 8 Ag825
- 33103 PUGLIESE, V. Unfortunate aspects of the agricultural situation. (In Italian.) Gior. di Agr. 61:1. Jan. 7, 1951. 16 It1G  
Italy.
- 33104 RAWSON, O. C. Plan to counter threat of dangerous food situation; European immigration; modern agricultural practices; farm co-operation; fixed prices. Rhodesian Tobacco J. 2(12):47-50. Dec. 1950. 69.8 R34  
Agricultural policy for Rhodesia.
- 33105 RICHTER, J. H. The European Recovery Program; programs, developments and prospects in agriculture. J. Farm Econ. 32:541-552. Nov. 1950. 280.8 J822
- 33106 R  MCKE-MOE, G. Production development in agriculture. (In Norwegian.) Landbrukstidende 56:887-889, 894, 909-912. Nov. 8-15, 1950. 11 L234
- 33107 ROZZONI, L. A. Unity in agriculture. Natl. Wool Grower 41:12-14. Jan. 1951. 45.8 N21N
- 33108 SAMPLE, G. W. AFBF puts America 1st, farmers 2nd. Hoosier Farmer 36:14-15. Jan. 1951. 280.82 H76
- 33109 SANDIFER, T. N. Asks bigger defense role for U. S. farms. Natl. Live Stock Prod. 29(4):9. Jan. 1951. 280.38 N21
- 33110 SAYRE, C. R. Dynamics of farm adjustments in the South. J. Farm Econ. 32:721-734. Ref. Nov. 1950. 280.8 J822  
Discussion by R. E. Proctor, p. 736-737.



33111 SCHENCK, H. E. Farm Bureau's platform—of farmers, by farmers, for the people. Hoosier Farmer 36:9-10. Jan.1951. 280.82 H76

33112 SCHIELLEIN, F. Zum jahreswechsel. Bas-Rhin Agr. 5:629-630. Dec.30,1950. 14 B29 Agriculture.

33113 SCHOFF, L. H. A national agricultural policy for all the people of the United States. New York, Harper, 1950. 153 p. 281.12 Sch6N

33114 SCHWEIZERISCHER BAUERNVERBAND PREISBERICHTSTELLE. Die schweizerische landwirtschaft im jahre 1950. Schweiz. Bauer 105:1. (Cont.) Jan.3,1951. 17 Sch95

33115 SCOPES, L. A. Colombia; economic and commercial conditions in Colombia. London, Bd. Trade, 1950. 42 p. (Overseas Econ. Surveys.) 255.5 G79 Includes agriculture.

33116 SKOVGAARD, K. Agriculture in 1950. (In Danish.) Tidsskr. f. Landøkon. 1951:1-52. Jan.1951. 11 T43 Denmark.

33117 SOUZA, P. C. DE. Agricultural reorganization. (In Portuguese.) Cooperativismo [Rio de Janeiro] 5(54):19-20,22. Dec.1950. 280.28 C7856 Brazil.

33118 STAF, C. Agriculture in national and international aspects. (In Dutch.) Landbode 5(2):1. Jan.13, 1951. 12 L234

33119 STOOSS, H. Die agrarpolitik im jahre 1950. Bad. Landwirt. Wchnbl. 117:902-903. Dec.31,1950. 18 B142

Also in Württemb. Wchnbl. f. Landwirt. 117:1170. Dec. 10,1950. 18 W96

33120 STREICHER, E. Volk an den pflug. Württemb. Wchnbl. f. Landwirt. 118:1-2. Jan.6,1951. 18 W96 Agricultural situation.

33121 TASCH. Die mitarbeit der Landwirtschaftskammer an der lösung einiger aktueller probleme unserer zeit. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1763-1764. Dec.21,1950. 18 L2346

33122 TOLLEY, H. R. World trade and American agriculture. J. Farm Econ. 32:801-813. Ref. Nov.1950. 280.8 J822

33123 TORRES FILHO, A. Our agriculture. (In Portuguese.) Seleç. Agr. 5(56):7-11. Dec.1950. 9.2 Se4 Brazil.

33124 UNION DE BANQUES SUISSES. L'année 1950. Zurich, 1951. 83 p. 284.9 Sch92W Library has also German edition, 86 p. 284.9 Sch92W Includes agriculture and the industries derived from agricultural products.

33125 U. S. DEPT. OF STATE. DIV. OF LIBRARY AND REFERENCE SERV. Point four; Latin America and European dependencies in the Western Hemisphere; a selected bibliography of studies on economically underdeveloped countries. Washington, 1950. 110 p. (Its Bibliography no. 55) 150.1 P752 Includes agriculture.

33126 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Published information on agriculture in foreign countries, January 1937 - December 1950. Washington, 1951. 56 p. 1.943 In3

33127 U. S. PRODUCTION AND MARKETING ADMIN. Directory of State departments of agriculture, 1951. Washington, 1951. 49 p. 1.956 A2D624

33128 U. S. PRODUCTION AND MARKETING ADMIN. Report of conservation materials and services furnished to farmers under contract and purchase order plans for the 1950 program during the period July through September, and cumulative totals for the 1950 program through September 30, 1950. Washington, 1951. 49 p. 1.956 F45R29

33129 VOROBYOV, N. Upsurge of USSR agriculture. Agr. Econ. 2:17-18. Sept.1950. 281.8 Ag832

33130 WAGNER, M. W. Europäische wirtschafts- und agrarpläne. Agrarpolit. Rev. 7:151-154. Dec.1950. 281.8 Ag824

33131 WESTBROOK, W. W. Conservation and defense plans are surveyed; agriculture and defense effort. Seed Trade News 56(4):1,4;(5):3. Jan.24-31,1951. 61.8 Se3

33132 WITT, L. W. Agriculture and the conditions of postwar trading. J. Farm Econ. 32:814-826. Nov.1950. 280.8 J822

33133 WOLF, J. P. M. VAN DER. Agriculture in 1950. (In Dutch.) Boer en Tuinder 4(206):13. Dec.30, 1950. 12 B632 Netherlands.

33134 ZUCCHINI, M. Spring crops. (In Italian.) Agr. Ferrarese 54:57-59. Mar.31,1950. 16 Ag87 Situation.

33135 ZÜRICH, H. F. Eine warnung für Europa. Deut. Landwirt. Presse 73(25):1-2. Dec.2,1950. 18 D482

Agricultural policy.

#### Subsidies

33136 HAGENMÜLLER, W. Die verwendung von ausgleichsgeldern der milchwirtschaft in Nordwürttemberg. Württemb. Wchnbl. f. Landwirt. 117:1091. Dec.2,1950. 18 W96

33137 MASTRORILLI, E. New stimulus to land investments needed; subsidies for land improvements. (In Italian.) Spezia Agr. 5(12):1. Dec.1,1950. 16 Sp3 Italian reclamation projects.

33138 SONNEMANN, T. Die deutsche subventionspolitik am englischen beispiel. Agrarpolit. Presse-Korresp. 3:348-349. Jan.30,1951. 281.8 Ag892

#### COST AND STANDARD OF LIVING

33139 DAVIES, V., and WOOD, A. L. Construction of a farm family level of living scale for the 11 Western States. J. Home Econ. 43:109-112. Feb.1951. 321.8 J82

33140 KENYON, B. W. Don't blame the farmer for the high cost of living; the facts prove that the farmer is not responsible for the high cost of living. Carolina Co-op. 29:14-15,33. Jan.1951. 72.8 N81

#### FARM MANAGEMENT AND LAND ECONOMICS

33141 AGENDA de la ménagère agricole, 1951, trente-deuxième année. Lyon, 1950. 160 p. 14 Ag32 Includes farming operations carried out by women.

33142 AGENDA des agriculteurs et des viticulteurs, 1951, cinquante-septième année. Lyon, 1950. 192 p. 14 Ag3

33143 ALLEN, D. Trading "know-how." Mich. Farmer 215:60-61. Jan.20,1951. 6 M58 Farming in Germany.

33144 BACHMAN, K. L. Relation of economic theory to the analysis of empirical data in farm management research. J. Farm Econ. 32:1159-1168. Ref. Nov.1950. 280.8 J822

33145 BALLARD, M., JR. Lamb and wool production on tung orchards proves profitable. Amer. Tung News 2:3-5. Jan.1951. 307.8 Am33

33146 BERENDES, P. Die organisation des anbauplanes unter landbaulichen gesichtspunkten. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1689-1690. Dec.7, 1950. 18 L2346

33147 BILLINGTON, T. 900 cows without concentrates. Farmer & Stock-Breeder 3193:30-31. Jan.2,1951. 10 F228

Management of a farm in Great Britain producing milk on grazing and silage.

33149 BROWN, F. Beef production at Beeville Station. Tex. Livestock J. 9(12):7,37,40,46,48. Dec.1950. 49 T29 Management.

33149 BURCH, J. W. Missouri does it the balanced farming way. Better Farming Methods 23(2):10,12-13. Feb.1951. 58.8 B46

33150 BURKETT, W. K. Complementary tools of farm planning. J. Farm Econ. 32:647-652. Nov.1950. 280.8 J822

33151 BUTLER, E. Lubbock Station points the way; South Plains farmers watch the Lubbock Station for new farm practices. Prog. Farmer, Tex. Ed. 66(2):16,118, 120. Feb.1951. 6 T311

33152 CLEMENTS, H. F. La administración de los cañaverales. I. Asoc. Gen. de Agr. B. 284:7. Dec.15, 1950. 8 As52

33153 COOPER, J. F. Live Oak Station will aid 8614 farms; eleven counties in Suwannee Valley benefit from University's newest branch station. Fla. Grower 59:5, 26. Jan.1951. 80 F6622

33154 COX, R. What keeps the farmer from practicing conservation? West. Farm Econ. Assoc. Proc. 23: 159-160. 1950. 280.9 W527P Conservation farming.

33155 DENNIS, J. V. Farming for pleasure. Org. Farmer 2,i.e.3:32-35. Jan.1951. 57.8 Or3



- 33156 DUMONT, R. Comment travaillent nos collègues belges, hollandais, anglais? I-III. *Libération Paysanne* 7(287):5; (289):5; (290):5; (291):5; (292):5. Nov. 9, 23-Dec. 14, 1950. 14 L61  
I, Un village de Flandre orientale et ses fermes "satellites"; II, L'exploitation intensive aux Pays-Bas; III, Autour d'une colline anglaise; fermage ou faire-valoir direct?
- 33157 EDNEY, L. E. A mixed farm in South Essex. *Gt. Brit. Min. Agr. Agriculture* 57:457-462. Jan. 1951. 10 G79J
- 33159 EWING, J. T. These 12 veterans farm co-operatively; they pooled their resources and started to break raw prairie. *Saskatchewan Farmer* 42(2):12-13. Jan. 18, 1951. 7 S274
- 33159 FARMER, S. Farming eight thousand acres; Smith's Potato Estates in Lincolnshire, where factory organization is applied to the land. *Power Farmer* 6:21-23. Jan. 1951. 58.8 P872
- 33160 FEDTKE. Betriebswirtschaftliche probleme eines sauerländischen bauernhofes. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107A:1769-1770. Dec. 21, 1950. 18 L2346
- 33161 FELLOWS, I. F. The application of static economic theory to farm management problems. *J. Farm Econ.* 32:1100-1112. Nov. 1950. 280.8 J822
- 33162 FRIEDMAN, M. A visit to poultry farms. (In Hebrew.) *Hassadeh* 31:111-112. Nov./Dec. 1950. 26 H27
- 33163 FUSSELL, G. E. "High farming" in the East Midlands and East Anglia, 1840-1880. *Econ. Geog.* 27:72-89. Ref. Jan. 1951. 278.8 Ec7
- 33164 GONÇALVES, P. A. A farm in Arkansas. (In Portuguese.) *Lav. Arroz.* 4(46):15. Oct. 1950. 59.8 L39
- 33165 GREAT BRITAIN. AGRICULTURAL LAND COMMISSION. Third report for the year ended 31st March 1950. London, 1950. 32 p. 282.9 C793  
Farming and farm management.
- 33166 GRIFFITH, F. More sheep and cattle on a Caernarvonshire farm. *Gt. Brit. Min. Agr. Agriculture* 57:417-420. Dec. 1950. 10 G79J  
Management of a farm in North Wales.
- 33167 GUERAULT, A. M. San Francisco aller et retour; une laiterie type dans le Wisconsin. *Vie Lait.* 6(122):1-2. Dec. 25, 1950. 44.8 V67
- 33168 HAMILTON, W. M., and MITCHELL, K. J. Walpa management survey sorts out the factors influencing efficiency of production. *New Zeal. Dairy Exporter* 26(5):62-67. Nov. 1, 1950. 44.8 N484  
Dairy farms.
- 33169 HAMMONDS, C., and TABB, W. R. Your farming program. Lexington, Ky., Hurst Print., 1951. 166 p. 275.1 H185
- 33170 HEADY, E. O. Application of recent economic theory in agricultural production economics. *J. Farm Econ.* 32:1125-1139. Nov. 1950. 280.8 J822
- 33171 HODGSON, B. Farm planning for 1951. *Farm-er* (St. Paul), Gen. Ed. 69(2):7, 19. Jan. 20, 1951. 6 F2211
- 33172 JAMES, H. B. Limitations of static economic theory in farm management analysis. *J. Farm Econ.* 32:1113-1119. Ref. Nov. 1950. 280.8 J822
- 33173 JOHNSON, G. L. Needed developments in economic theory as applied to farm management. *J. Farm Econ.* 32:1140-1156. Ref. Nov. 1950. 280.8 J822  
Discussion by C. B. Haver, p. 1156-1158.
- 33174 JOHNSON, P. C. Who should own the land? *Prairie Farmer* 124, i.e. 123(2):1, 40-41. Jan. 20, 1951. 6 P883
- 33175 KAHSNITZ. Die ursachen der leistungsunterschiede landwirtschaftlicher betriebe. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107A:1657-1658. Nov. 30, 1950. 18 L2346
- 33176 KAL'M, P. Problems in prospective planning on an enlarged collective farm. (In Russian.) *Sotsialist. Sel'sk. Khoz.* 21(8):29-36. Aug. 1950. 281.8 So73
- 33177 KANSAS. STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE. EXTENSION SERV. Happier families. *Kans. State Col. Agr. Ext. C.* 222, 22p. Aug. 1950. 275-29 K13Ex  
Balanced farming and family living program.
- 33179 KENNEDY, V. D. Examples of educational work in farm organization problems, with special reference to information used and types of information needed. *West. Farm Econ. Assoc. Proc.* 23:47-53. 1950. 280.9 W527P  
Balanced farming.
- 33179 KING, G. H. The Southeastern farmer makes the change. *Better Crops Plant Food* 34(10):22-24, 43-44. Dec. 1950. 6 B46
- 33180 MAUMENÉ, A. 1800-2000 oeufs avec 12 poulettes peuplant votre poulailler familial. *Vie à la Campagne* 40(483):30-31. Jan. 1951. 80 V87
- 33181 MENIS, J. Organization and mechanization in potato growing. (In Hebrew.) *Hassadeh* 30:684-686. Sept. 1950. 26 H27
- 33182 METCALF, V. A suggestion for basic public land management. *Natl. Wool Grower* 41:25, 55-57. (To be cont.) Jan. 1951. 45.8 N21N
- 33183 MEYER, G. Wenn man ins sinnen kommt. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:53. Jan. 11, 1951. 18 L2346  
Poultry farming.
- 33184 MOORHOUSE, S. Marsh farming in the Fylde; a Lancashire holding where the tides must be watched. *Farmer & Stock-Breeder* 65:255. Jan. 23, 1951. 10 F228
- 33185 MORITZ, F. L. Good living on a farm that's family-size, self-sufficient. *Mo. Farmer* 43:3, 21. Jan. 1951. 6 M696
- 33186 MURRAY, W. G. How to buy and finance a dairy farm. *Hoard's Dairyman* 96:111, 141. Feb. 10, 1951. 44.8 H65
- 33187 NESIUS, E. J. Some problems of joint use of theory and empirical data in farm management research. *J. Farm Econ.* 32:1169-1181. Ref. Nov. 1950. 280.8 J822
- 33189 NUTT, J. D. Balanced farming: the problem of increasing the output from East of Scotland farms. *Scot. Agr.* 30:168-172. Winter 1950/51. 10 Sco82So
- 33189 O'KANE, W. C. Sun in the sky. Norman, U. Okla. Press, 1950. 261 p. (Civilization of the American Indian [Ser. No. 30]) 138 Ok1  
Touches upon the agriculture of the Hopi Indians.
- 33190 ORTIZ VILLANUEVA, B. La profesión agro-nómica en México. 2. Chapingo 4:500-502. June 1950. 102 C36
- 33191 ORWIN, C. S., and others. Fifty farming years [in Great Britain]. *Farmers Wk.* [London] 34:34-39, 41, 43, 45, 47, 49. Jan. 5, 1951. 10 F2226  
Sir W. Gavin, Sir R. G. Stapledon, E. J. Roberts, and E. McEwen, joint authors.
- 33192 OVESON, M. M. The place of pilot farms in the economics of farm conservation. *West. Farm Econ. Assoc. Proc.* 23:148-152. 1950. 280.9 W527P
- 33193 PARIS, W. Farming in Alaska. *Family Herald & Wk. Star* 82(2):3, 12. Jan. 11, 1951. 7 F21
- 33194 PATERSON, R. Problems of management. 9-10. *Farmers Wk.* [London] 34(4):55; (5):53. Jan. 26-Feb. 2, 1951. 10 F2226  
9, How much work does it [tractor] do?; 10, A matter of [combines] timing.
- 33195 PAWSON, W. W. An economic-research approach to the problems of conservation farming in the wheat areas of the Pacific Northwest. *West. Farm Econ. Assoc. Proc.* 23:152-156. 1950. 280.9 W527P
- 33196 PORTSMOUTH, G. V. WALLOP, EARL OF. Farming from scratch. *Land* 9:563-567. Winter 1950/51. 279.8 L22  
Farming in Kenya.
- 33197 PUZON, B., and TUGADE, P. Agricultural survey of Hacienda Caguray in San José, Mindoro. *Philippine Agr. Engin. J.* 1:112-116. Third Q. 1950. 58.8 Ag88
- 33198 PYRKE, B. A. The John Samuel Murdock Farm. *Dairyman's League News* 35(3):5, 17. Feb. 6, 1951. 44.8 D1432  
New York.
- 33199 QUEENSLAND. LAND ADMINISTRATION BOARD. Annual report for the year 1949-50. Brisbane, 1950. 104 p. 271.3 P96
- 33200 REED, F. D. Don't depend on labor; improvement in methods, housing, and equipment will help produce greater income with less labor. *Poultry Tribune* 57(2):18, 42, 44. Feb. 1951. 47.8 P8642
- 33201 REID, B. The world's biggest pecan grove. *N. Mex.* 29(2):13-15, 41, 43, 45, 47. Feb. 1951. 288.8 N46
- 33202 RESLER, R. D. Together we prosper. *Amer. Farm Youth* 16(8):25. Jan. 1951. 6 Am393  
Father-son partnership.
- 33203 RIETSEMA, C. Agrarische bedrijfstvormen in Hollands noorderkwartier [Farming types in Holland's Northern Quarter]. Assen, Van Gorcum, 1950. 105 p. (Practische Onderzoekingen op Sociaal-Economisch en Planologisch Gebied. D 1) 282.172 R44A



33204 RITCHIE, J. M. Some observations on problems of hill and marginal land. *Econ. J.* 60:740-752. Dec.1950. 280.8 Ec72

Great Britain.

33205 SALOM CALAFELL, J. El huerto familiar del obrero industrial. *Cult. Mod.* 33:411-412. Nov.1950. 15 C89

Spain.

33206 SCHILLER, O. The farming cooperative. (In Italian.) *Agr. Ital.* 1:648-652. Dec.15,1950. 16 Ag822

33207 SCHWEIZER, P. Als elev in einem schwedischen gross-zuchtbetrieb. *Geflügelhof* 13:808-810. Dec.8,1950. 47.8 G276

Poultry farming in Sweden.

33208 SCRUGGS, C. G. Texas prison system invests in humanity. *Prog. Farmer, Tex. Ed.* 66(2):18,114-115. Feb.1951. 6 T311

The prison system's farming operations.

33209 SHERRILL, D. W. We've just begun to farm. *Sowest. Crop & Stock* 5:17,24. Jan.1951. 6 So8942

Farm practices.

33210 SHULTIS, A. Helping farmers adjust to crop allotment programs. *West. Farm Econ. Assoc. Proc.* 23:41-44. 1950. 280.9 W527P

33211 SMITH, C. S. This is what it takes. *Farmers Wk. [London]* 34(4):51,53. Jan.26,1951. 10 F2226

Requirements of a young man setting out to farm.

33212 STEWART, C. E. Successful irrigated-farm development—a problem in control and use of resources. *West. Farm Econ. Assoc. Proc.* 23:108-117. 1950. 280.9 W527P

33213 STRACHAN, J. High production on second-rate land. *Gt. Brit. Min. Agr. Agriculture* 57:368-371. Nov. 1950. 10 G79J

Management of a farm in England.

33214 TABLANTE, N. B. Are you going to farm? *Agr. & Indus. Life* 12(12):2-3,40-41. Dec.1950. 25 Ag8

Philippine Republic.

33215 THIELAN, VAN. Ranching in the Congo. *Ariz. Cattlelog* 6(4):26-31. Dec.1950. 43.8 Ar42

33216 THOMAS, R. The full corn. *Land* 9:551-553. Winter 1950/51. 279.8 L22

Farming as an occupation.

33217 U. S. S. R. SOVET MINISTROV. O khode podgotovki kolkhozov, MTS i sovkhovov k vesennemu sevu [On progress in preparations of collective farms, machine-tractor stations and state farms for the spring sowing]. *Moskva, Gos. Izd-vo Polit. Lit-ry*, 1950. 28 p. 281.179 Un352Kp

33218 VOCHELLE, J. *Agriculture intensive*. Ed. 2. Amiens, 1950. 180 p. 33.17 V85A

33219 WARE, R. R. Estate management. (Sum.) *Gt. Brit. Min. Agr. Agriculture* 57:408-413. Dec.1950. 10 G79J

Estate management in Britain.

33220 WIECKING, E. H. Land economics research in retrospect and prospect. *J. Farm Econ.* 32:1064-1075. Nov.1950. 280.8 J822

33221 WILSON, J. M. The changing scene; fifty years of Scottish farming. *Scot. Agr.* 30:138-143. Winter 1950/51. 10 So82So

33222 YOHE, R. S. Egypt—yesterday, today, tomorrow. *Foreign Agr.* 15:32-33. Feb.1951. 1.9 Ec7For

Egyptian farm life.

33223 YOHE, R. S. Farmers on too few acres. *West. Farm Life* 53(3):19. Feb.1,1951. 6 R153

Farming in Italy.

33224 YOHE, R. S. *Fr anch farmer*. *Prairie Farmer* 124,i.e.123(2):22-23. Jan.20,1951. 6 P883

Farming in France.

#### Bookkeeping and Records

33225 BROWN, L. H. Don't guess—keep records. *Hoards Dairyman* 96:66. Jan.25,1951. 44.8 H65

Farm bookkeeping.

33226 SIMS, A. J. Don't farm blindly—keep books. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 66:18. Jan.1951. 6 P945K

#### Costs and Returns

33227 ARANGO, R. Costo de producción, un problema político económico y social. *Agrotecnia* 4:17-20. Sept./Dec.1950. 8 Ag825

33228 AXELSSON, J. Current feeding problems. (In Swedish.) *Mjolkpropagandan* 27:128,166-167. May-June/July 1950. 44.8 M692

Costs and returns of dairy cattle in Sweden.

33229 BLUM, W. R. Verkaufserlös und betriebsausgaben. *Deut. Landwirt. Presse* 73(25):1. Dec.2,1950. 18 D482

33230 BOEKHOLT, K. Rentabilität und kreuzungslein. *Deut. Landwirt. Presse* 73(26):6. (To be cont.) Dec.16, 1950. 18 D482

33231 BRAHE-PEDERSEN, O. What is done to improve the returns in the poultry industry in America. II-III. (In Danish.) *Dansk Landbr.* 69:644-646,655-657. Dec.21-28,1950. 280.28 V91

33232 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1949 poultry management study, San Bernardino County, by B. B. Burlingame and J. Hertel. *Berkeley?* 1950? 9 p. 275.29 C12En

Includes costs and income.

33233 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Solano County Bartlett pear management study, crop year 1950, compiled by B. B. Burlingame. *Berkeley?* 1950? 11 p. 275.29 C12En

Chiefly costs and returns.

33234 CROSSMAN, B. D. Production costs; the area of grower choice. *Cranberries* 15(9):7-8. Jan.1951. 80 C852

33235 DENIS, E. C., and BAUMAN, R. H. Livestock costs and returns in southeastern Indiana. *Ind. Agr. Expt. Sta. B.* 550,23 p. May 1950. 100 In2P

33236 EREMEEV, K. Cost of tractor work at machine-tractor stations in Moscow Region. (In Russian.) *Sotsialist. Sel'sk. Khoz.* 21(8):37-43. Aug.1950. 281.8 So73

33237 FIGUEIRA, A. The cost of agricultural production. (In Portuguese.) *Gaz. do Agr.* 2:236-240. Oct. 1950. 24 G25

Mozambique.

33238 GMELIN. Kostenberechnungen—richtig ausgewertet. *Deut. Landwirt. Presse* 73(23):5-6. Nov.4, 1950. 18 D482

Milk.

33239 GRUGET, E. A. El cáñamo. *Bolsa de Cereales, Buenos Aires. Rev.* 37(1976):25-28. (Cont.) Dec.14, 1950. 287 B866

Detailed figures of production costs.

33240 GÜNTHART, A. Der milchpreis, verglichen mit dem normalen stundenlohn. *Grüne* 78:1285. Nov.24, 1950. 17 Sch9

Switzerland.

33241 GUSLER, G. There's money in the hen house. *Mich. Farmer* 215:85,114-115. Feb.3,1951. 6 M58

Egg costs and returns.

33242 HOWALD, O. Methoden zur bestimmung der lage der landwirtschaft: produktionskosten, rentabilität, kaufkraft. *Agrarpolit. Rev.* 7:161-178. Dec.1950. 281.8 Ag824

33243 KEARL, C. D. Seasonal costs and returns in producing eggs New York, 1946-47. *N. Y. (Cornell) Agr. Expt. Sta. B.* 865,22 p. Nov.1950. 100 N48C

33244 KEUNE. Schwerpunkte der milchviehhaltung. *Deut. Landwirt. Presse* 73(24):1-2. Nov.18,1950. 18 D482

Costs and returns.

33245 PEDERSEN, E. Can estimates of costs and returns be adjusted to agricultural work? (In Danish.) *Dansk Landbr.* 69:580. Nov.16,1950. 280.28 V91

33246 PHILLIPS, J. R. E. General report on the costs of milk production for 87 herds during 1947-48. *U. Col. Wales. Dept. Agr. Econ. Econ. Studies Welsh Dairy Farming* 1,30 p. July 1950. 281.3449 Un32

33247 REES, A. M. M. Seed potato growing in an upland area of Wales; costs and returns on 36 farms in Brecon and Radnor for the cropping year, 1949. *Aberystwyth, U. Col. Wales, Dept. Agr. Econ., 1950.* 33 p. 281.375 R25

33248 SAVAGE, Z. Citrus production costs decreased, 1946-1950. *Citrus Mag.* 13(6):34-35. Feb.1951. 80 C498

33249 SHEWELL-COOPER, W. E. Economics of fruit growing; some reassuring figures about the crucial first year or two. *Field* 196:1101. Dec.23,1950. 10 F45



33250 STEWART, D. M. Cattle on the hills. Scot. Agr. 30:121-123. Winter 1950/51. 10 Sco82So  
Chiefly beef cattle costs and returns.

33251 THOMAS, I. J. Some costs of growing feed crops in Wales for the harvest years 1947 and 1948. Aberystwyth, U. Col. Wales, 1950. 27 p. 281.360 T36

33252 UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH. AGRICULTURAL ECONOMICS DEPT. Recent trends and costs in beef production, by B. H. Roberts. Aberystwyth, 1950. 25 p. 43 Un33R

33253 WITT. Die verbilligung der milcherzeugungskosten. Landwirtbl. Weser-Ems 97:989-991. Nov. 23, 1950. 18 L2345  
Austria.

33254 WRAGG, S. R. Production must go up 20 % a bird to maintain profits. Poultry Farmer [London] 123 (3203):13. Dec. 22, 1950. 47.8 F312  
Costs and returns on British eggs.

#### Land Settlement and Colonization

33255 CALAN, J. DE. L'inquiétude de la colonisation. Rev. Agr. de l'Afrique du Nord 48:781-782. Oct. 27, 1950. 80 R326

33256 ERICSSON, S. Nuestro Oriente como campo de inmigración. Mensajero Agr. 51/52:27-28. (To be cont.) July/Aug. 1950. 9.8 M52  
Agricultural settlement for Peru.

33257 FOSCHI, M. Labor will conquer the lake bed of S. Egidio. (In Italian.) Agr. Ital. 1:639-641. Dec. 15, 1950. 16 Ag822  
Settlement.

33258 MCNULTY, G. Next-year country. Oreg. Farmer 74:69, 81. Feb. 1, 1951. 6 Or32  
Development and settlement of the central Washington reclamation project.

33259 NOEL-BUXTON, LORD. A gift of grass for Christmas. Farmers Wk. [London] 33(26):39. Dec. 29, 1950. 10 F2226  
The story of the early days of New Zealand.

33260 RAWSON, R. R. Emigration to British East and Central Africa. Econ. Geog. 27:65-71. Jan. 1951. 278.8 Ec7  
Land settlement.

33261 ROMERO, I. A. Jomalig Island; a site for agricultural development. Soil Sci. Soc. Philippines J. 2: 249-254. Fourth Q. 1950. 56.9 So35

33262 SCHOR. Durchführung der ländlichen siedlung. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:48. Jan. 11, 1951. 18 L2346

33263 SIMONEN, S. Development of Finnish colonisation. (In Swedish.) Mjölpropagandan 27:238-239. Sept. 1950. 44.8 M692

#### Land Tenure

33264 BRANNAN, C. F. Help them own their land. (Condensed.) Farm Policy Forum 4:21-24. Jan. 1951. 281.8 F2274

Policy for Asia under the Point IV Program.

33265 BREKKE, A. Theoretical analysis of the problem of public tenure of grazing lands as a basis for empirical research. West. Farm Econ. Assoc. Proc. 23: 118-125. 1950. 280.9 W527P

33266 CROCE, L. Agrarian reform, sheep, and transhumance in the South. (In Italian.) Gior. di Agr. 60: 354. Nov. 12, 1950. 16 It1G

33267 DARBY, B. T. Thirty-nine farmers fight for their fields; Dorset village sees the first boundary revision scheme in the country. Farmer & Stock-Breeder 65:253-254. Jan. 23, 1951. 10 F228

33268 FANTINI, O. Fragmentation and consolidation of lands. (In Italian.) Agenzia Romana Note e Inform. Agr. 72:1-2. Oct. 25, 1950. 281.8 Ag3

33269 FELICE, P. DE. L'étendue du droit de préemption. Monit. Agr. 4(144):5. Jan. 14, 1951. 14 M744  
France.

33270 FELICE, P. DE. Préemption et indivision. Monit. Agr. 4(143):5. Jan. 7, 1951. 14 M744  
France.

33271 FELICE, P. DE. Quand y a-t-il droit de préemption? Monit. Agr. 3(140):5. Dec. 17, 1950. 14 M744  
France.

33272 FRICK DAVIE, C. Animales en pastoreo y arrendamiento para ganadería. Asoc. Rur. del Uruguay. Rev. 77(12):14-17. Dec. 1950. 9.9 As5  
Pasture rental.

33273 GARCÍA ISIDRO, M. Aclarando dudas. Agricultura [Madrid] 19:530-534. Nov. 1950. 15 Ag84  
Rural leases in Spain.

33274 GRISHIN, N. S. Urgent problems in orchard cultivation in connection with the consolidation of collective farms. (In Russian.) Sad i Ogorod 1950(10):7-11. Oct. 1950. 80 Sa13

33275 HENDRIX, R. L. The landlord-tenant relationship program in North Carolina: procedure for one year of work. J. Farm Econ. 32:1085-1087. Nov. 1950. 280.8 J822

33276 JOHNSON, A. The age-old problem of the land. Amer. J. Econ. & Sociol. 10:174. Jan. 1951. 280.8 Am393

Agrarian unrest and communism.

33277 KUVSHINOV, I. Consolidation of small collective farms—the road to a new vigorous advancement of socialist agriculture. (In Russian.) Sotsialist. Sel'sk. Khoz. 21(8):24-28. Aug. 1950. 281.8 So73

33278 THE LAND REFORM IN ITALY. Rev. Econ. Cond. Italy 5:32-39. Jan. 1951. 280.8 R3236

33279 LARUE, W. C. Partnership and diversified farming. Prog. Farmer, Carolinas-Va. Ed. 66(2):18, 115. Feb. 1951. 6 P945

33280 LEGUEU, F. F. La terre qu'on tue. Blé et le Vin 27(1159):3. Dec. 24/31, 1950. 14 B61  
Land tenure in France.

33281 LEWIS, N. W. The landlord-tenant relationship program in North Carolina: extension methods used to accomplish the job. J. Farm Econ. 32:1087-1090. Nov. 1950. 280.8 J822

33282 MARIS, P. V. The land is mine; from tenancy to family farm ownership. U. S. D. A. Agr. Monog. 8, 387 p. Nov. 1950. 1 Ag84Am

33283 MIRO ESPLUGAS, M. Fincas rústicas que no lo son. Cám. Ofic. Sind. Agr. de Barcelona. B. 5:307-308. Dec. 1950. 15 C14

Legal aspects of rented farms in the suburbs of Barcelona.

33284 MONTAGNE, R. Le droit de reprise du bailleur en cas de demande de conversion de bail de métayage en bail à ferme. Prog. Agr. et Vitic. 1950:408-409. Dec. 31, 1950. 14 P94  
France.

33285 MONTAGNE, R. Le droit de reprise en faveur d'un enfant majeur. Prog. Agr. et Vitic. 1951:15-16. Jan. 7/14, 1951. 14 P94

Leases in France.

33286 NEUMAYR, L. Ein österreichisches anerkennen und höherrecht? Landwirtschaft 1950:348-349. Dec. 1950. 19 L235

33287 PARLAGRECO, A. Legislation on the leasing of farms. (In Italian.) Italia Agr. 87:663-669. Ref. Nov. 1950. 16 It1

33288 POWELL, J. C. The landlord-tenant relationship program in North Carolina: background of program. J. Farm Econ. 32:1076-1080. Nov. 1950. 280.8 J822

33289 RATCHFORD, C. B. The landlord-tenant relationship program in North Carolina: appraisal of the program. J. Farm Econ. 32:1093-1098. Nov. 1950. 280.8 J822

33290 REINECKE. Wichtige entscheidungen des obersten gerichtshofes zur höfeordnung. Landwirt. Wchnbl. f. Westfalen u. Lippe 107 A:1665. Nov. 30, 1950. 18 L2346

Inheritance.

33291 SAVATIER, R. Manuel juridique des baux ruraux (1947); addendum 1950. Paris, 1950. 48 p. 282.174 Sa9

33292 SINIBALDI, A. Reorganization of land tenure in Italy. (In Italian.) Agr. Ital. 1:633-634. Dec. 15, 1950. 16 Ag822

33293 SMITH, E. J. No veto at Yetminster. Farmers Wk. [London] 34(3):47. Jan. 19, 1951. 10 F2226  
Re-adjustment of farm boundaries in Great Britain because of fragmentation of holdings.

33294 TIMMONS, J. F., and WALLACE, J. J. How to find the right farm or tenant. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:85-86. Dec. 1950. 275.28 Io94



33295 TURNER, W. L. The landlord-tenant relationship program in North Carolina: progress made by croppers participating in the program. *J. Farm Econ.* 32: 1090-1093. Nov. 1950. 280.8 J822

33296 VANLANDINGHAM, E. P. The landlord-tenant relationship program in North Carolina: how it was started; objectives, situations, and difficulties encountered. *J. Farm Econ.* 32:1080-1085. Nov. 1950. 280.8 J822

#### Land Utilization

33297 BOWEN, H. Public lands—reopening to cattle urged by California cattleman. *West. Livestock J.* 29(7): 114,116. Jan. 15, 1951. 6 F2278

33298 DE LA FARGUE, D. G. H. Looking ahead in Scotland; plans are now afoot to bring new life to 400 square miles. *Farmer & Stock-Breeder* 3193:38. Jan. 2, 1951. 10 F228

An experimental scheme to retrieve valuable land and bring it back to usefulness.

33299 EDELMAN, C. H. Increasing productivity on our land. (In Dutch.) *Friesch Landbbl.* 47:803. Dec. 22, 1950. 12 F91

Land utilization.

33300 EICHINGER, J. Die Nutzung des ackerlandes in Bayern. *Bayern in Zahlen* 4:589-591. Dec. 1950. 285 B34

33301 FUCHS, Mehr ackerland—eine betriebswirtschaftliche Notwendigkeit. *Württemb. Wchnbl. f. Landwirt.* 117:1067. Nov. 25, 1950. 18 W96

33302 HESTER, E. Land use shows up in the [Mississippi] Delta. *Prog. Farmer, Miss.-Ark.-La. Ed.* 66: 18. Jan. 1951. 6 So81

33303 ISAACSON, M. R. U. S. faces growing land crisis. *Sowest. Crop & Stock* 5:11,52-53. Jan. 1951. 6 So8942

Land classification and utilization.

33304 JOSS, A. The lender looks at conservation. *West. Farm Econ. Assoc. Proc.* 23:156-158. 1950. 280.9 W527P

Land use practices.

33305 KANNENBERG, H. Müssen wir koppeln auf Hochmoor zuweilen doch umbrechen? *Landwirtbl. Weser-Ems* 97:904-905. Oct. 26, 1950. 18 L2345

33306 MCMARTIN, W. The economics of land classification for irrigation. *J. Farm Econ.* 32:553-570. Ref. Nov. 1950. 280.8 J822

33307 MISRA, M. D. Riverbed cultivation of crops and vegetables. *Agr. & Anim. Husb.* 1(4):14-18, 23. Sept. 1950. 22 Ag86

33308 STEDEN, A. Die landwirtschaftlichen Betriebsformen in Niederösterreich. *Bodenkultur* 4:257-277. 1950. 19 B635

Land utilization.

33309 WIRTH, Die Betriebsstruktur der württemberg-badischen Forstwirtschaft. *Statist. Monatsh. Württemberg-Baden* 4:366-368. Nov. 1950. 265 St24

Land utilization by size of farm.

#### Land Values and Valuation

33310 BERNARD, P. Il y avait une fois un village à vendre. *Monit. Agr.* 4(144):1-2. Jan. 14, 1951. 14 M744

Land values in France.

33311 DEMAND for farms boosts farm land prices. *Banking* 43(8):58,118. Feb. 1951. 284.8 Am3

33312 DUGGAN, I. W. Can we avoid a dangerous land boom? *Farm Policy Forum* 4:17-20. Jan. 1951. 281.8 F2274

33313 DUGGAN, I. W. Farm land inflation—a threat to the family farm. *Blue Anchor* 28:30. Feb. 1951. 286.83 B62

33314 HARRIS, J. The cost of starting to farm; average purchase price is now £85 an acre. *Farmer & Stock-Breeder* 65:177. Jan. 16, 1951. 10 F228

In Great Britain.

33315 JACOBS, F. Zum beschwerdeverfahren gegen die bodenschätzungsergebnisse. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:10. Jan. 4, 1951. 18 L2346

33316 LANZA, M. The definitive valuation of real estate for application of the progressive inheritance tax. (In Italian.) *Roma Econ.* 3:681-683. Oct. 1950. 280.8 R66

33317 MAASS, Was ist bei der Offenlegung der bodenschätzungsergebnisse zu beachten? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107A:1732. Dec. 14, 1950. 18 L2346

#### POPULATION

33318 CARRIE, J. La nationalité des agriculteurs étrangers en France et leur implantation géographique. *France. Mm. de l'Agr. Rev. Etudes & Monog.* 1950:245-249,251-256. Nov. 1950. 281.8 F84

33319 CASTILLO ROYO, J. DEL. La prosperidad rural. *Cult. Mod.* 33:378-379. Oct. 1950. 15 C89

The rural exodus in Spain.

33320 GUGGISBERG, A. Die Landflucht in der Schweiz von 1870-1941. *Agrarpolit. Rev.* 7:179-183. Dec. 1950. 281.8 Ag824

#### RURAL SOCIAL ORGANIZATION

33321 ANDERSON, W. A. A study of the values in rural living. V. The opinions of university students. N. Y. (Cornell) *Agr. Expt. Sta. Mem.* 302,73 p. Nov. 1950. 100 N48C

33322 BERRY, R. Stoneposts in the sunset. *Watkins Glen, N.Y., Century House*, 1950. 96 p. 30.4 B45S

33323 HUDSON, A. G. Towards a better life on the Australian farm. *Land [Sydney] (Farm & Sta. Annu.)* 2043: 3,86. Oct. 11, 1950. 23 L22

33324 MARK, A. Verödet das Land? *Württemberg. Wchnbl. f. Landwirt.* 117:1105-1106. Dec. 9, 1950. 18 W96

Improvement of rural life.

33325 ROS MARINE, M. La cuestión social en el campo. *Cám. Ofic. Sind. Agr. de Barcelona. B.* 5:279-280. Nov. 1950. 15 C14

33326 STADELMANN, J. Beiträge über Bauernkultur. *Grüne* 78:1391-1395. Dec. 22, 1950. 17 Sch9

33327 STUDER, O. Grundlagen bauerlicher Kultur. *Geflügelhof* 13:753-754. Nov. 17, 1950. 47.8 G276

Switzerland.

33329 VIDART, D. Esquema de una sociología rural uruguaya. *XXIII-XXV. Uruguay. Mm. de Ganad. y Agr. B. Inform.* 346:6;348:10;349:16. Nov. 9, 23-30, 1950. 9.9 G15B

33329 WAHLEN, H. Bestand und Förderung bäuerlicher Kultur und Bildung in der Schweiz. *Grüne* 78:1307-1326. Dec. 1, 1950. 17 Sch9

#### Human Ecology

33330 ACKERMAN, J. Rural community ideals. *Christian Rur. Fellowship B.* 159:1-8. Jan. 1951. 281.29 C46

33331 ALMACK, R. B., and HEPPLER, L. M. Rural social organization in Dent County, Missouri. *Mo. Agr. Expt. Sta. Res. B.* 458,59 p. Aug. 1950. 100 M693

33332 BERNATZKY, A. Aufgaben der Landschaftsforschung und -pflege innerhalb der Raumforschung und Raumordnung. *Z. f. Raumforsch.* 1950:242-245. 282.8 Z3

33333 BRAND, D. D., and CORONA NÚÑEZ, J. Quiroga, a Mexican municipio. *Smithson. Inst. Inst. Social Anthropol.* P. 11,242 p. Ref. 1951. 446.9 Sm6

Includes land tenure and agriculture.

33334 BÜLOW, F. Raumforschung als wissenschaftliche Aufgabe. *Z. f. Raumforsch.* 1950:231-235. 282.8 Z3

33335 DANIELS, W. M. Should we have more TVA's? *New York, Wilson*, 1950. 225 p. Ref. (Reference Shelf, v. 22, No. 2) 280.12 D22

33336 GREENE, S. E. Faith and fear in the Columbia Valley. *Town & Country Church* 67:1-2. Jan. 1951. 281.28 T66

Regional planning.

33337 KRÜGER, K. Die Raumplanungsgrundlagen in Birma. *Z. f. Raumforsch.* 1950:298-304. 282.8 Z3

33338 LARUE, W. C. Virginia communities set example for others. *Prog. Farmer, Carolinas-Va. Ed.* 66(2):15,117-120. Feb. 1951. 6 P945

In Carroll and Grayson Counties.

33339 MARTIN, R. Progress contest coupons pay off in happy rural neighborhoods. *Farmer-Stockman* 54:10. Jan. 1951. 6 Ok45

Rural Neighborhood Progress Contest, Oklahoma.

33340 MAULL, O. Die Bedeutung der Grenzgrütelmethode für die Raumforschung. *Z. f. Raumforsch.* 1950: 236-242. 282.8 Z3



33341 REIFEL, B. The problem of relocating families on the Fort Berthold Indian Reservation. *J. Farm Econ.* 32:644-646. Nov.1950. 280.8 J822  
Community relocation.

#### Institutions

33342 AUGER, A. Quebec's farm contests. *MacDonald Col. J.* 11(4):19-22. Dec.1950. 101 M144

33343 BARCELO, J. L. Importancia de la enseñanza agrícola en los Estados Unidos. *Ceres [Valladolid]* 15(173):13,15. Nov.1,1950. 15 C33

33344 BENDER, R. Veteran county agent looks at his job. *Natl. Co. Agent & Vo-Ag Teacher* 7(2):15,21. Feb.1951. 275.28 N213

33345 BERNARDI, V. M. School for farmerettes. (In Italian.) *Terra e Sole* 101:11-12. Jan.1951. 16 T273

Agricultural instruction for women in Italy.

33346 BHAGAT, P. G. The rural church and its message to Free India. *Christian Rur. Fellowship B.* 160:1-4. Feb.1951. 281.29 C46

33347 BORGHOF, F. W. Bäuerliches gerichtswesen im fürstbistum Paderborn. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107A:1705-1706. Dec.7,1950. 18 L2346  
History.

33348 BÜHRLE, H. Zum besuch der landwirtschaftsschulen. *Württemb. Wchnbl. f. Landwirt.* 118:6. Jan.6, 1951. 18 W96

33349 CASALINI, M. The family and professional agricultural instruction in France. (In Italian.) *Agr. Ital.* 1:635-636. Dec.15,1950. 16 Ag822  
English summary.

33350 CHANG, C. W. Report on agricultural extension in Pakistan. Bangkok, Thailand, 1950. 96 p. Ref. 275.24 C36R

33351 COWLING, E. County church survey. *Town & Country Church* 67:9. Jan.1951. 281.28 T66  
Onondaga County, New York.

33352 CRAM, J. S. What's happening to the farmer? *MacDonald Col. J.* 11(4):10-12. Dec.1950. 101 M144

33353 DOMORÁZEK, P. The annual report of the C.A.A. [Czechoslovak Academy of Agriculture]. (In Czech.) *Ceskoslov. Akad. Zeměděl. Věst.* 24:498-503. Nov.1950. 19.5 C332

33354 ELFWING, Y. Vocational education in agriculture. (In Swedish.) *Mjölpropaganda* 27:192-194. Aug.1950. 44.8 M692

33355 FRANCIS, M. Pass valuable advice on to farmers. *Feedstuffs* 23(2):40-41. Jan.13,1951. 286.81 F322

33356 FRAUENDORFER, S. Internationale FAO-tagung über bergbauernfragen (Innsbruck, 16. bis 18. april 1950). *Bodenkultur* 4:355-365. Ref. 1950. 19 B635

33357 GEIGER, Zum besuch der landwirtschaftsschule. *Württemb. Wchnbl. f. Landwirt.* 118:49-50. Jan.20,1951. 18 W96

33358 GRUNSEIS, F. Das bergbauernproblem. *Bodenkultur* 4:249-256. 1950. 19 B635  
Austria.

33359 GULLOUX, R. Le Centre d'Instruction et d'Education Rural Africain (C.I.D.E.R.A.). *Rev. Agr. de l'Afrique du Nord* 48:803-806. Nov.3,1950. 80 R326

33360 GUSTIN, L. La sécurité des familles rurales. *Fiches Rur.* 64:8-11. Dec.1950. 281.8 F44  
France.

33361 HAFDAHL, A. A superintendent evaluates agricultural education. *Visitor* 38(2):1-2. Jan.1951. 275.8 V822

33362 HAMBURGER, H. Lehrwerkstatt an der landwirtschaftsschule Adelsheim. *Bad. Landwirt. Wchnbl.* 117:750. Nov.4,1950. 18 B142

33363 HARDIN, C. M. The politics of agriculture in the United States. *J. Farm Econ.* 32:571-583. Nov. 1950. 280.8 J822

33364 HOLMES, H. C. Agriculture extension service; philosophy, principles & technique. *Agr. & Anim. Husb.* 1(3):11-18. Apr./Aug.1950. 22 Ag86  
India.

33365 JOHNSON, P. C. Your county fair publicity. *Fairs & Expositions* 3(23):10-13. Jan.1951. 310.8 F16

33366 KRÜGER, G. Schülerelbstverwaltung in den weiblichen berufs- und fachschulen als erziehungsfaktor. *Nachr. f. Beratung u. Ausbild. in der Landwirt.* 3:129-130. Nov.1950. 18 N11  
Germany.

33367 KRZYWON, W. Ein jahr landarbeitslehre. *Landtechnik* 6:2-3. Jan.15,1951. 58.8 L235  
Germany.

33368 KÜHNER, Verteilung und grösse der landwirtschaftsschulen. *Nachr. f. Beratung u. Ausbild. in der Landwirt.* 3:121-124. Nov.1950. 18 N11  
Germany.

33369 LAMEGO, A. Black pages of slavery in the country. I-II. (In Portuguese.) *Bras. Açucareiro* 36:109-111,243-244. July-Aug.1950. 65.8 B73

33370 LEROUXEL, A. L'écolier américain est-il mieux préparé à la vie que l'écolier français? *Fiches Rur.* 64:33-35. Dec.1950. 281.8 F44

33371 LEROY, A. R. Centre Agricole de Kafin-Soli (Nigeria): rapport de mission. *Agron. Trop.* 5:633-635. Nov./Dec.1950. 26 Ag86  
Education and research.

33372 LIGGETT, K. J. Problem solving procedures in teaching agriculture. *Agr. Educ. Mag.* 23:185,187. Feb.1951. 275.8 Ag8

33373 LÜNNICK, FREIHERR VON. Von der grösse und hoheit des deutschen bauernstandes. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107A:1759-1760. Dec.21,1950. 18 L2346

33374 MCINTYRE, E. R. On-the-farm training to 633,000 veterans. *Capper's Farmer* 62(2):16,26. Feb. 1951. 6 M693

33375 MAIER-BODE, F. W. Meisterprüfung auch in der landwirtschaft? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:39-41. Jan.11,1951. 18 L2346

33376 MANN, D. Stop, thief! Stealing livestock, grain, machinery is on the increase; here is what you can do to combat it. *Kans. Farmer* 88(2):5,14. Jan.20,1951. 6 K13

33377 MARTE. Soll ich in die landwirtschaftsschule? *Württemb. Wchnbl. f. Landwirt.* 117:948-949. Oct.14,1950. 18 W96

33378 MARTIN, R. More education at less cost is consolidation's answer to critics. *Farmer-Stockman* 54: 13,43. Jan.1951. 6 Ok45

33379 MAUCH, A. Public policy education in extension. Washington, U. S. Ext. Serv., 1950. 6 p. 1.913 E2P96

Presented at Extension Conference, University of Nebraska, Nov. 2, 1950.

33380 MEILHAN, A. Une année de vulgarisation avec la D. S. A. [Directions des Services Agricoles] du Gers. *Terre d'Occ* 32:532-542. Dec.1950. 14 Ar5

33381 MEINDL, G. Die landwirtschaftsschau auf der Wiener Herbstmesse vom 10. bis 17. september 1950. *Landwirtschaft* 1950:285-286. Oct.1950. 19 L235

33382 MILLER, H. Community auctions build a hospital. *Country Gent.* 121(2):120-121. Feb.1951. 6 C833  
Hardin County (Ohio) Memorial Hospital.

33383 MORALES, J. C., and others. Estudios sobre higiene y salud en la zona rural de Turrialba, Costa Rica. *Turrialba* 1:44. July 1950. 8 T86  
M. Coll-Camalez, A. T. B. de Sariola, and A. Arce, joint authors.

33384 NAUGHER, R. E. Educational programs for young farmers. *Agr. Educ. Mag.* 23:189. Feb.1951. 275.8 Ag8

33385 NIEDERFRANK, E. J., and MUSSELMAN, V. Planning recreation for rural home and community. U. S. D. A. *Agr. Inform. B.* 20,60 p. Nov.1950. 1 Ag84Ab

33386 OBENHAUS, V. Protestant contribution to democracy through local group action. *Town & Country Church* 68:3-4. Feb.1951. 281.28 T66

33387 OSLO. LANDBRUKSAKADEMIET. VINTER-LANDBRUKSSKOLEN. Vinterlandbruksskolen, Landbruksskolen, Oslo, 61de og 62de virkeår 1/10 1946-30/9 1948. I. Laereanstalten. II. Produksjonsregnskapene [The Winter Agricultural School—the Agricultural Academy, Oslo, 61st and 62nd working year, 1/10 1946-30/9 1948. I. The school. II. Production report]. Oslo, 1950. 83 p. Ref. 104 Os5

33388 PIELSTICK, D. F. How can we make a rural church and community study? *Town & Country Church* 68:10-11. Feb.1951. 281.28 T66

33389 POURRAT, H. L'homme à la bêche, histoire du paysan. Paris, Flammarion, 1950. 258 p. 281 P86

33390 PRATT, A. Veterans training program. *Agr. Educ. Mag.* 23:181. Feb.1951. 275.8 Ag8



- 33391 PUKHOVITSKIY, N. M. Constant improvement of preparation of cadres of mass qualification. (In Russian.) *Sad i Ogorod* 1950(10):36-39. Oct. 1950. 80 S213  
Vocational agriculture.
- 33392 RADIO in agricultural broadcasting; work-study group. *Inst. Educ. Radio. Ybk.* 20:325-333. 1950. 275.9 In72  
D. D. Reynolds, presiding.
- 33393 RASMUSSEN, A. O., and HARTVIG LARSEN, P. Education in vocational agriculture in U. S. A. (In Danish.) *Tidsskr. f. Landøkon.* 1950:573-592. (To be cont.) Dec. 1950. 11 T43
- 33394 REAL, G. A. DEL. Enseñanza e investigación agrícolas en Francia. *An. de Edafología y Fisiol. Veg.* 9: 214-225. Mar./Apr. 1950. 506 Sp12
- 33395 REINHART, J. Das buch im bauernhaus. (Excerpts.) *Geflügelhof* 13:757-758. Nov. 17, 1950. 47.8 G276
- 33396 RHEINWALD, H. Beeinträchtigt die beratung den besuch der landwirtschaftsschulen? *Württemb. Wchnbl. f. Landwirt.* 118:22. Jan. 13, 1951. 18 W96
- 33397 RITTER. Mitarbeiterkurse im winter 1950/51. *Landwirtschaft* 1950:340. Nov. 1950. 19 L235  
Austria.
- 33398 ROEMER, M. I. Rural programs of medical care. *Amer. Acad. Polit. & Social Sci. Ann.* 273:160-168. Jan. 1951. 280.9 Am34
- 33399 SCHLUP, L. A. The district supervisors' stake in county Extension public relations. Washington, U. S. Ext. Serv., 1950. 8 p. 1.913 I2D632  
Presented at Extension intra-regional conferences of district supervisors in the South.
- 33400 SCHROEDER, W. P. Using special teachers makes a community program for adults a reality. *Agr. Educ. Mag.* 23:180-181. Feb. 1951. 275.8 Ag8
- 33401 SEEGLER, K. L. County governments and their relation to the Cooperative Extension Service. Washington, U. S. Ext. Serv., 1950. 5 p. 1.913 A2C83  
Address before joint meeting of the Extension Sections of the Agriculture and Home Economics Divisions of the Land-Grant College Association meeting, Washington, D. C., Nov. 13, 1950.
- 33402 SHUTTLEWORTH, D. In one hand a book, in the other a hoe; a school that qualifies boys from all parts of Southern Africa for university or farm. *Farmer's Wk. [Bloemfontein]* 80:37,39. Dec. 27, 1950. 24 F225
- 33403 SMITH, C. S. "Three R's" and farming too. *Farmers Wk. [London]* 34(3):51,53. Jan. 19, 1951. 10 F2226  
Instructions in agriculture at the North County Modern Boys School, England.
- 33404 SNYDER, C. J. The town and country church and this convocation. *Town & Country Church* 68:13. Feb. 1951. 281.28 T66
- 33405 SOUTHERN, W. Muresk Agricultural College. *West. Austral. Dept. Agr. J. (ser. 2)* 27:301-311. Sept. 1950. 23 W52J
- 33406 SPRAGGS, P. F. Give them the facts—a plea for making information available to the people. *Agr. Educ. Mag.* 23:186. Feb. 1951. 275.8 Ag8  
Vocational agriculture program.
- 33407 STEVENS, H. Do you know how to organize a arm tour? *Natl. Co. Agent & Vo-Ag Teacher* 7(2):11-12. Feb. 1951. 275.28 N213  
Methods in extension work.
- 33408 TAGLIAFERRI, L. A. No existe granja sin granjera. *Mensajero Agr.* 50:29-30. June 1950. 9.8 M52
- 33409 TAYLOR, C. C. Some rural situations and the responsibilities of rural churches. *Town & Country Church* 68:7,16. Feb. 1951. 281.28 T66
- 33410 TELEVISION in agricultural broadcasting; work-study group. *Inst. Educ. Radio. Ybk.* 20:149-165. 1950. 275.9 In72  
K. M. Gopen, presiding.
- 33411 TENHUMBERG. Die verantwortung der lehr-familie für den landwirtschaftlichen lehrling. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107A:1761. Dec. 21, 1950. 18 L2346
- 33412 THOMAS, R. E. AMA vs. country doctors. *New Repub.* 124(7):13. Feb. 12, 1951. 280.8 N42
- 33413 THORNTON, H. At last, B. C.'s [British Columbia] high schools provide vocational agriculture 4-year course. *Country Life [Vernon]* 30:3,15. Jan. 1951. 7 C832
- 33414 TIPTON, B. Sears Roebuck and Co. has been a good steward. *Acco Press* 29(2):1-9,16. Feb. 1951. 6 Ac2  
Public relations program of the Sears-Roebuck Foundation and Sears, Roebuck and Co.
- 33415 U. S. DEPT. OF AGRICULTURE. GRADUATE SCHOOL. Graduate School; spring semester schedule of classes, 1950-51. Washington, 1951. 8 p.-folder. 1 Ag854E
- 33416 U. S. EXTENSION SERV. Report of cooperative extension work in agriculture and home economics, 1949/50. Washington, 1950. 75 p. 1 Ex892R
- 33417 WEST, R. K. The inside story on Clemson's Agricultural Education Graduate Program. *Agrarian* 9(2):14. Jan. 1950. 276.8 Ag8
- 33418 WIELEN, M. G. W. VAN DER. Agricultural and horticultural education at the beginning of the 8th school year. (In Dutch.) *Drents Landtbl.* 31(47):5. Dec. 2, 1950. 12 D812
- 33419 WÖSTE, G. Wirtschaftsberatung in der breite. *Deut. Landwirt. Presse* 73(26):2. Dec. 16, 1950. 18 D482
- 33420 ZIEGLER, E. K. Worship methods in the rural church. *Town & Country Church* 68:1-2. Feb. 1951. 281.28 T66

### Leadership

- 33421 HECKMAN, J. H. Who'll take the place of the grand old men? *News Farmer Coop.* 17(11):7,20. Feb. 1951. 166.2 N47  
Developing leaders for cooperative organizations.

### Rural Organizations and Movements

- 33422 AHMAD, C. S. Recent trends of co-operative movement in the Punjab. *Co-op. & Mktg. Rev.* 4:321-325. Oct. 1950. 280.28 C78243
- 33423 ALI, C. A. Co-operative activities in East Bengal. *Co-op. & Mktg. Rev.* 4:307-310. Oct. 1950. 280.28 C78243
- 33424 ALMEIDA, O. DE. Rural cooperatives. (In Portuguese.) *In Centro Nacional de Estudos Cooperativos. Temas cooperativos*, p.85-91. Rio de Janeiro, 1950. 280.2 C334
- 33425 BARRADAS, L. The need for association among the farmers of Mozambique. (In Portuguese.) *Gaz. do Agr.* 2:234-235. Oct. 1950. 24 G25
- 33426 BARROS BEAUCHEFF, J. Constituímos un conjunto digno de ser atendido en nuestras justas peticiones. *Campesino [Santiago]* 82(11):19,21. Nov. 1950. 9.3 So12  
Chile.
- 33427 BERTICHE, A. La juventud agraria y el cooperativismo. *Rev. SanCor* 9(97):7. Nov. 1950. 280.28 R322
- 33428 BETTER relations between farm and city people. *Coop. Digest* 11(6a):29-30. Dec. 1950. 280.28 C7896  
Work of farmer cooperatives.
- 33429 THE BUILDERS of farm cooperatives. *Coop. Digest* 11(6a):37,39-42. Dec. 1950. 280.28 C7896
- 33430 CENTRO NACIONAL DE ESTUDOS COOPERATIVOS. *Temas cooperativos [Cooperative themes]*. Rio de Janeiro, 1950. 124 p. 280.2 C334
- 33431 COLBY, R. The story of a 4-H club shows how oaks from acorns grow. *Natl. 4-H News* 29(2):15,40. Feb. 1951. 275.28 N212
- 33432 COOPERATIVE Information Lifelines. *Coop. Digest* 11(6a):34-35. Dec. 1950. 280.28 C7896
- 33433 CO-OPS and their organizations. *Coop. Digest* 11(6a):31-33. Dec. 1950. 280.28 C7896
- 33434 COUNTRY LANDOWNERS' ASSOCIATION. Forty-third annual report, October, 1950. Dorchester, 1950. 40 p. 282.9 C33A
- 33435 COURCY, A. L'histoire d'une coopérative. *Terre de Chez Nous* 22(50):18. Feb. 7, 1951. 7 T27  
Canada.
- 33436 DAVIS, R. A. They're talking about cooperatives. *Blue Anchor* 28:24,37. Feb. 1951. 286.83 B62
- 33437 DUGGAN, I. W. Director's responsibilities are many and important. *News Farmer Coop.* 17(11):3,20-21. Feb. 1951. 166.2 N47  
Board of directors of cooperative organizations.
- 33438 FACCINI, G. C. Rural cooperation in Alto Adige. (In Italian.) *Agr. delle Venezie* 4:363-367. Oct./Dec. 1950. 16 Ag862



- 33439 FARMER cooperatives at the mid-century. *Coop. Digest* 11(6a):9-11. Dec.1950. 280.28 C7896
- 33440 FARMER co-ops pioneered the way. *Coop. Digest* 11(6a):13-15. Dec.1950. 280.28 C7896
- 33441 FUNK, C. Eye opener for businessmen. *News Farmer Coop.* 17(11):11. Feb.1951. 166.2 N47  
Open house for industry held by the Pennsylvania Farm Bureau Cooperative Association.
- 33442 GARDNER, K. B. Farmers up their stake in co-ops. *News Farmer Coop.* 17(11):4. Feb.1951. 166.2 N47
- 33443 A GIBRALTAR against trends toward socialism. *Coop. Digest* 11(6a):27-28. Dec.1950. 280.28 C7896
- 33444 HOFER, M. Das landwirtschaftliche genossenschaftswesen auf neuen wegen. *Kärntner Bauer* 100:435-437. Dec.1,1950. 19 K14
- 33445 HUTCHINSON, C. R. The educational processes of cooperatives in relation to rural life. *Town & Country Church* 68:11. Feb.1951. 281.28 T66
- 33446 JOHNSON, E. A. Facts about your association. *Co-op. Poultryman* 16:12-13. Jan.1951. 47.8 C782  
Poultrymens Cooperative Association of Southern California.
- 33447 KNAPP, J. G. Cooperative expansion through horizontal integration. *J. Farm Econ.* 32:1031-1047. Ref. Nov.1950. 280.8 J822  
Discussions by W. Z. Hirsch, p. 1058-1060, and F. Robertka, p. 1062-1063.
- 33448 KNAPP, J. G. Truths and untruths about farmer cooperatives. *Coop. Digest* 11(6a):21-26. Dec. 1950. 280.28 C7896
- 33449 KOLLER, E. F. Vertical integration of agricultural cooperatives. *J. Farm Econ.* 32:1048-1058. Nov.1950. 280.8 J822
- 33450 KOPETZ, H. Landwirtschaftsförderung durch die landjugend. *Kärntner Bauer* 100:411-412. Nov.15, 1950. 19 K14  
4-H Clubs.
- 33451 KRAUS, J. Ein historisches datum für unsere genossenschaften. *Landwirt. Genossenschl. f. Niederbster.* 47(12):1-2. Dec.1,1950. 280.28 L23
- 33452 LEBEAU, O. R. Educational practices of farmer cooperatives. U. S. Farm Credit Admin. *Coop. Res. & Serv. Div. Misc. Rpt.* 140,53 p. Jan.1951. 166.3 M68
- 33453 MASSACHUSETTS STATE GRANGE. Official directory, 1951. n.p.,1951. unpagd. 4 M385D
- 33454 MILESTONES along the road of cooperation. *Coop. Digest* 11(6a):17-18. Dec.1950. 280.28 C7896
- 33455 MINNESOTA STATE GRANGE. Journal of 1950 proceedings seventy-eighth annual session, Pine River, Minnesota, October 17-18-19. *Pine River*, 1950. 110 p. 4 M662
- 33456 MORA DAVILA, N. El hecho en si mismo. *Rev. Nac. de Agr.* 44(548):36-37. Dec.1950. 9.4 R32  
On the Sociedad de Agricultores de Colombia.
- 33457 NOMINÉ, H. Die genossenschaft als quelle des vertrauens der dorfgemeinschaft. *Bas-Rhin Agr.* 5: 603. Dec.16,1950. 14 B29
- 33458 ORDOUX, L. Nos coopératives agricoles, source d'union ou de désaccord? *Bas-Rhin Agr.* 5:607, 630,635. Dec.16,30,1950. 14 B29
- 33459 OSSA, R. He podido palpar la unanimidad de los espíritus y la decisión de las voluntades. *Campefino [Santiago]* 82(11):17. Nov.1950. 9.3 So12  
Chile.
- 33460 PÓRTO, J. DA C. Cooperation and the agrarian problem. (In Portuguese.) In *Centro Nacional de Estudos Cooperativos. Temas cooperativos*, p.99-108. Rio de Janeiro,1950. 280.2 C334  
Brazil.
- 33461 REID, E. B. Waked up sleepy Michigan village. *News Farmer Coop.* 17(11):12-14,18. Feb.1951. 166.2 N47  
Activities and development of the Hamilton Farm Bureau Cooperative, Inc.
- 33462 RESERVE BANK OF INDIA. AGRICULTURAL CREDIT DEPT. Statistical statements relating to the co-operative movement in India for the year 1948-49. *Bombay*,1950. 20 p. 280.29 S12  
Agricultural societies and land mortgage banks included.
- 33463 ROBINSON, J. L. Kentucky 4-H'ers buy co-operatively. *News Farmer Coop.* 17(11):6. Feb.1951. 166.2 N47
- 33464 SANDERS, F. Young Farmer programs. *Agr. Educ. Mag.* 23:188. Feb.1951. 275.8 Ag8
- 33465 SCHULZE-HENNE, K. Genossenschaften als mittler zwischen stadt und land. *Landwirtbl. Weser-Ems* 97:969-970. Nov.16,1950. 18 L2345  
Austria.
- 33466 SMITH, H. A follow-up study of West Virginia State and American Future Farmers. *Agr. Educ. Mag.* 23:182. Feb.1951. 275.8 Ag8  
Occupations.
- 33467 SMITH, L. P. F. The farmers' co-operatives of Sweden. *Agr. Ireland* 8:19-21. Jan.1951. 10.5 Ag8
- 33468 STANTON, B. E. Women at work produce results. *News Farmer Coop.* 17(11):15-16,18. Feb.1951. 166.2 N47  
Women's program of Southern States Cooperative, Inc., Richmond, Va.
- 33469 STROMMER, J. Generalversammlung des Verbandes der Europäischen Landwirtschaft. *Landwirtschaft* 1950:313-316. Nov.1950. 19 L235
- 33470 SYLVESTRE, I. Regards sur les coopératives de l'Abitibi. *Ensemble!* 11(10):15-21. Dec.1950. 280.28 En7
- 33471 UHLEN, R. La coopération dans le Bas-Rhin. *Bas-Rhin Agr.* 5:604,610. Dec.16,1950. 14 B29
- 33472 U. S. EXTENSION SERV. National 4-H Club Week, March 3-11, 1951. *Washington*,1951. 4 p. 1.913 F3N217
- 33473 VALDES FONTECILLA, M. A partir de hoy, la unidad de los elementos agrarios sera cada vez mas inquebrantable. *Campefino [Santiago]* 82(11):11,13-14. Nov.1950. 9.3 So12  
Chile.
- 33474 WAAS, G. J. Keeping cooperative records. *News Farmer Coop.* 17(11):8. Feb.1951. 166.2 N47

## RURAL SOCIAL PSYCHOLOGY

- 33475 COLBY, E. M. Wives are asked how does politics affect farm home? *Hoosier Farmer* 36:10-11. Jan.1951. 280.82 H76

## TRADE, FOREIGN AND INTERNATIONAL

- 33476 BAQUIAST, R. Définition et contrôle de la qualité des produits agricoles exportés; application aux fleurs et feuillages. *France. Min. de l'Agr. Rev. Inform. Econ. et Statist.* 1950:263-264. Nov.1950. 281.8 F84
- 33477 BAXA, J. Zuckerstatistik und weltpolitik. *Zucker* 3:539-540. Dec.15,1950. 65.8 Z82
- 33478 BELL, E. J. Market for western farm products in the Far East. *West. Farm Econ. Assoc. Proc.* 23:4-10. 1950. 280.9 W527P
- 33479 BISET, L. Il est nécessaire d'organiser un marché européen des produits laitiers. *Défense Agr. de la Beauce et du Perche* 47:476. Dec.23,1950. 14 D36
- 33480 BRAZIL. SERV. DE ESTATISTICA ECONOMICA E FINANCEIRA. Comércio exterior do Brasil por portos, segundo as mercadorias, vol. V, 1945-1946 [Foreign trade of Brazil by ports, according to commodities, v. V, 1945-1946]. Rio de Janeiro,1950. 259 p. 255.3 F292
- 33481 BROCHIER, H. La Belgique, pays importateur de vins. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8 (1):534. 1950. 388 C765
- 33482 CALEFFA, G., and ZUCCHI, N. Italian foreign trade in food products. (In Italian.) *Congiuntura Econ.* 5:237-243. Sept.30,1950. 280.8 C7635
- 33483 CLERICI, E. Excellent prospects for the imposition of a duty on honey of 80 percent ad valorem. (In Italian.) *Apic. d'Italia* 17:75. Apr.1950. 424.8 Ap372
- 33484 CORDESSE, A. Le commerce du coprah et la nécessité des marchés à terme. *Marchés Colon.* 6:3089-3091. Dec.30,1950. 286.8 M33  
France and colonies.
- 33485 DAVIDSON, H. R. N. Ireland's bid for bacon exports. *Farmer & Stock-Breeder* 3194:104. Jan.9,1951. 10 F228
- 33486 EDWARDS, W. E. The importation of stud pigs into the United Kingdom from Australia. *Pig Breeders' Gaz.* 64:43-44. Jan.1951. 46.8 N21
- 33487 EMMENTAL. EXPORTGESELLSCHAFT FÜR SCHWEIZER KÄSE. Bericht über das geschäftsjahr 1949/1950. *Schweiz. Zentbl. f. Milchwirt.* 39:297-300. Dec.22,1950. 44.8 Sch93



33488 FILENI, E. The European Economic Union and the tariff agreements in their effects on agriculture. (In Italian.) *Terra e Sole* 101:1-3. Jan.1951. 16 T273 In Italy.

33489 GT. BRIT. CUSTOMS AND EXCISE DEPT. Forty-first report for the year ended 31st March, 1950. London, 1951. 183 p. (Cmd. 8120) 256.03 C96

33490 GT. BRIT. CUSTOMS AND EXCISE DEPT. STATISTICAL OFF. Annual statement of the trade of the United Kingdom with British countries and foreign countries 1948 compared with the years 1946-1947. London, 1950. v.1,4, and sup.to 4. 256.03 C96S

33491 HEUSER, O. E. Muss die westdeutsche Landwirtschaft die Liberalisierung fürchten? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:3-4. Jan.4, 1951. 18 L2346

Trade policy.

33492 HOUTTE, A. VAN. Les accords sur produits. (Sum.) *Cong. Internat. des Indus. Agr. Rap.* 8(1):578-579. 1950. 388 C765

International agreements.

33493 JENSEN, T. S. Export of cattle and meat in 1950. (In Danish.) *Andelsbladet* 52:16-17. Jan.4, 1951. 280.28 An2

Denmark.

33494 LEE, G. F. Southern Rhodesian tobacco for Britain. *New Commonwealth* 21:179. Dec.1950. 280.8 C88

33495 MASUTTI, A. About the exportation of dairy products. (In Italian.) *Mondo del Latte* 1950:611-613, 615-616, 619. Nov.1950. 44.8 M74

English summary.

Italy.

33496 MÜNSTERMANN, W. Gründung der Spitzenorganisation des deutschen Eler-Importhandels. *Eler-, Wild-, Geflügel- u. Honig-Markt* 2(50):1. Dec.14, 1950. 280.38 E13

33497 NICARAGUA. RECAUDADOR GENERAL DE ADUANAS. Memoria, 1949. Managua, 1950. 163 p. 254 N512

Includes trade statistics.

33498 NIELSEN, L. A few words on our export of breeding animals. (In Danish.) *Dansk Landbr.* 70:12-13. Jan.4, 1951. 280.28 V91

Dairy cattle.

33499 PERDOMO, J. E. Comercio internacional del tabaco. *Habano* 16(12):14, 16. Dec.1950. 69.8 H11

33500 PHILIPPINE REPUBLIC. BUR. OF CENSUS AND STATISTICS. Foreign trade statistics of the Philippines, 1945/46-Jan./June 1949. Manila, 1950. 3 v. 273 C332F

33501 PRIESTMAN, H. L. E. Irish egg and poultry exports increased substantially in the past three years. *Foreign Trade* 9:127. Jan.27, 1951. 286.8 C162

33502 RIVEROS, J. E. Preparación de la uva para la exportación. *Chacra* 21(242):32-33. Jan.1951. 9 C34

Argentina.

33503 SARAWGEE, C. Dealers and shippers commission in gunny exports. *Jute & Canvas Rev.* 22(268):5. Jan.1951. 73.38 J982

33504 SEBELIN, C. Abfertigungsbedingungen der Pflanzenbeschau für kartoffelexporte. *Kartoffelwirtschaft* 3:475-476, 484-485. (Cont.) Dec.8-15, 1950. 286.83 K14

Germany.

33505 SHEAR, S. W. Summary of the pear export situation; European markets needed. *West. Fruit Grower* 4(12):13-15. Dec.1950. 95.8 G762

33506 TAEVERNIER, A. Egyptian cotton in Belgium. *Egypt. Cotton Gaz.* 11:35-39. Sept.1950. 72.8 Eg9

33507 TESTA, J. France, recently the second world importer. (In Portuguese.) *São Paulo: Supt. dos Serv. do Café. B.* 25:885-890. Nov.1950. 68.29 Sa63

33508 UNITED NATIONS. ECONOMIC AND SOCIAL COUNCIL. ECONOMIC COMMISSION FOR LATIN AMERICA. Trade trends and policies of Latin American countries. *Lake Success?* 1950. 133 p. (United Nations. [Document] E/CN.12/165) 286 Un3954

33509 U. S. ECONOMIC COOPERATION ADMINISTRATION. DIV. OF STATISTICS AND REPORTS. Far East data book. Washington, 1950. 91 p. 173.2 Ec72Far

Contains statistics of trade in agricultural products.

33510 U. S. TARIFF COMMISSION. Interim report on tree nuts. Washington, 1950. 6 p. 173 T17Inu

33511 VERBELEN, L. Le commerce extérieur des textiles en 1950. *Monit. Textile* 13:27, 29. (To be cont.) Jan.1951. 304.8 M74

Belgium.

## FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

### GENERAL

33512 ALLSOPP, A. H. Vegetarianism and Christianity. *Veg. Messenger & Health Rev.* 48:5-6. Jan.1951. 389.8 V522

33513 BHATNAGER, S. S. Central Food Technological Research Institute. *J. Sci. & Indus. Res.* 9A:431-433. Dec.1950. 475 J82

33514 CAMPBELL, R. Food needs for healthy teeth. *Food & Nutr. News* 22(5):3. Feb.1951. 389.8 F7332

33515 COOPER, L. F., and others. Nutrition in health and disease. Ed. 11, rev. and reset. Philadelphia, Lippincott, 1950. 744 p. Ref. 389.1 C78

E. M. Barber, H. S. Mitchell, and H. J. Rynbergen, joint authors.

33516 CURTIS, B. W. The expanding role of the school lunch program. *Cherry-Burrell Circle* 1951:25. Jan./Feb.1951. 44.8 C42

33517 DREIZEN, S., and others. The effect of milk supplements on the growth of children with nutritive failure. II. Height and weight changes. *Growth* 14:189-211. Ref. Sept.1950. 442.8 G91

C. Currie, E. J. Gilley, and T. D. Spies, joint authors.

33518 ELGENMARK, O. Milk as food. (In Swedish.) *Mjölpropagandan* 27:158-159. June/July 1950. 44.8 M692

33519 EPPRIGHT, E. S. Vitalizing nutrition teaching. *J. Home Econ.* 43:89-92. Feb.1951. 321.8 J82

33520 FLANDERS, C. The school lunch program. *Prog. Farmer, Tex. Ed.* 66(2):104-105. Feb.1951. 6 T311

33521 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Report of the Second Latin American Conference on Nutrition. (In Portuguese.) *Arq. Bras. de Nutr.* 7:149-174. May/June 1950. 389.8 Ar6

33522 FOX, F. W. The amino acid requirements of man. *Cape Town*, 1950. 6 p. 386.3 F83A

33523 GELLER, L. Die künstliche ernährung des sauglings. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 107 A: 1599. Nov.16, 1950. 18 L2346

33524 GEYER, R. P. Emulsions of fat for intravenous use. *J. Home Econ.* 43:113-114. Feb.1951. 321.8 J82

33525 GT. BRIT. MINISTRY OF FOOD. Cakes, puddings, biscuits and scones. London, Stationery Off., 1950. 15 p. 389.25 G792C

33526 HAMLIN, J. P. Learning community needs for nutrition services. *Amer. Dietet. Assoc. J.* 27:41-42, 44. Jan.1951. 389.8 Am34

33527 HARRINGTON, M. M. Meat in the therapeutic diet. *Food & Nutr. News* 22(5):1, 4. Feb.1951. 389.8 F7332

33528 KING, C. G. Factors in the development of new and superior foods. In *National Dairy Products Corporation. The role of research in the conservation of our nutritional resources*, p.43-50. New York, 1950. 389 N2196

Nutrition research.

33529 KING, C. G. Tremendous nutrition task ahead. *Chem. & Engin. News* 29:24-27. Jan.1, 1951. 381 J825N

33530 KUNG, L. C., and HSU, P. C. Nutritional findings in Chinese school children. *Amer. Dietet. Assoc. J.* 27:36-38. Ref. Jan.1951. 389.8 Am34

33531 LASSABLIÈRE, P. *Encyclopédie de l'alimentation; scientifique, médicale, hygiénique, gastronomique.* Paris, Maloine, 1950. 2 v. 389 L33

33532 LIFQUIST, R. C., and TATE, E. B. Planning food for institutions. *U. S. D. A. Agr. Handbk.* 16, 95 p. Ref. Jan.1951. 1 Ag84Ah

33533 LUYKEN, R. The subjective element in clinical research of nutritional status. (In Dutch.) *Voeding* 12:1-2. Jan.15, 1951. 389.8 V85

33534 MOSSEL, D. A. A., and TOLLENAAR, F. D. Food and nutrition. IX. (In Dutch.) *Voeding* 12:7-17. Jan.15, 1951. 389.8 V85

English summary.

33535 PENNSYLVANIA. STATE COLLEGE. AGRICULTURAL EXTENSION SERV. How well do you eat? *Pa. State Col. Agr. Ext. L.* 136, 6 p.-folder. Oct.1950. 275.29 P38L



33536 PETT, L. B. Limitations in the use of dietary standards; differences in American, British, and Canadian standards. *Amer. Dietet. Assoc. J.* 27:28-31. Ref. Jan. 1951. 389.8 Am34

33537 RICE, T. B. The salt free diet; points and pitfalls. *Today's Health* 29(2):22-23, 49-50. Feb. 1951. 449.8 H993

33538 ROBINSON, W. D. Dietary consultation—a service for small institutions. VI. *Amer. Dietet. Assoc. J.* 27:16-23. Ref. Jan. 1951. 389.8 Am34

33539 SIQUEIRA, R. DE. Program of the nutrition institutes. (In Portuguese.) (Sum.) *Arq. Bras. de Nutr.* 7:193-198. May/June 1950. 389.8 Ar6

33540 TERRELL, E. L. What school lunches are doing for Louisiana children. *La. Dept. Educ. B.* 700, 31 p. 1950. 389 L93

33541 TRÉMOLIÈRES, J., and others. Remarques sur les méthodes employées pour apprécier un état de nutrition. *Ann. de la Nutr. et de l'Aliment.* 4:321-357. Ref. 1950. 389.8 An73

G. Péquignot, S. Bonfils, and R. Derache, joint authors.

33542 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Food budgets. Washington, 1950. 3 p. 1.982 A2F7324

33543 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Report of the chief, 1949/50. Washington, 1950. 15 p. 1 H75

33544 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Whole wheat and cracked wheat, economical additions to the diet. Washington, 1950. 6 p. 1.982 A2W62

33545 VASCONCELOS, J. F. DE. Feeding of the infant. (In Portuguese.) (Sum.) *Arq. Bras. de Nutr.* 7:199-200. May/June 1950. 389.8 Ar6

33546 WOODS, R. Nutrition highlights—1950. *Borden's Rev. Nutr. Res.* 12:1-10. Jan. 1951. 389.8 B64

33547 WOODS, R. Progress in pediatric nutrition. II. The mineral and vitamin requirements in premature infants. *Borden's Rev. Nutr. Res.* 11:103-116. Ref. Dec. 1950. 389.8 B64

#### FOOD HABITS

33548 INSTITUT NATIONAL D'HYGIÈNE. SECT. DE NUTRITION. Enquête sur la consommation alimentaire des familles d'un canton rural du Département de la Loire (quatrième trimestre 1949 et premier trimestre 1950). *Inst. Natl. d'Hyg. B.* 5:694-700. Oct./Dec. 1950. 449.9 P21

33549 IRELAND. DEPT. OF LOCAL GOVERNMENT AND PUBLIC HEALTH. Dietary survey of farm workers' families. Ireland. Dept. Local Govt. and Pub. Health. Natl. Nutr. Survey 5, 27 p. 1950. 386.3 Ir2

33550 SIQUEIRA, R. DE. Teaching of better food habits to the people. (In Portuguese.) (Sum.) *Arq. Bras. de Nutr.* 7:196-199. May/June 1950. 389.8 Ar6

#### NUTRITIVE AND VITAMIN CONTENT

33551 AMES, S. R., and others. Molecularly distilled monoglycerides. III. Nutritional studies on monoglycerides derived from cottonseed oil. *Amer. Oil Chem. Soc. J.* 28:31-33. Jan. 1951. 307.8 J82

M. P. O'Grady, N. D. Embree, and P. L. Harris, joint authors.

33552 BAUMANN, J. Gesundheit durch richtige obst-verwertung. *Gartenjahr* 5:21-22. Feb. 1950. 80 G1932

33553 CAMIRAND, R. Le fromage comme aliment national. *Québec Lait.* 9(12):24-25. Dec. 1950. 44.8 Q3

33554 CREMER, H. D. Über den biologischen wert des hefeeiweisses für den menschen. (Abs.) *Angew. Chem.* 62:171. Apr. 6, 1950. 384 Z33

33555 HALDEN, W. Das tägliche obst und gemüse. *Landwirtschaft* 1950:308-310. Oct. 1950. 19 L235

Nutritive value.

33556 HALLIDAY, D. Fruit for health. *Amer. Fruit Grower* 71:34, 51. Jan. 1951. 80 G85

33557 HOCKETT, R. C. Sugar in public health. St. Louis, Mo., Amer. Pub. Health Assoc., 1950. 31 p. Ref. 65 H65Su

33558 LAL, G. B. No substitute for milk. *Certif. Milk* 26:7. Jan. 1951. 44.8 C33

33559 LEASE, E. J. More food value from enriched corn meal and grits. *Agrarian* 9(2):7. Jan. 1950. 276.8 Ag8

Fortification for human consumption.

33560 LEE, F. A. Nutritional value of frozen foods. *Nutr. Rev.* 9:1-4. Jan. 1951. 389.8 N953

33561 LEME JUNIOR, J. La vitamine C. dans quelques plantes brésiliennes et exotiques. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):503-504. 1950. 388 C765

Fruit.

33562 LONCIN, M. Importance des matières grasses au point de vue alimentaire. *Rev. des Ferment. et des Indus. Aliment.* 5:206-208. Ref. Dec. 1950. 390.08 R32

33563 MILLARD, R. El azúcar podrá resolver la escasez mundial de alimentos. *Selec. Rur.* 6:29-31. Oct./Dec. 1950. 9.9 Se4

Nutritive value.

33564 MONZINI, A., and ARTON, A. La teneur en vitamines B2 des fromages. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):546. 1950. 388 C765

33565 NATIONAL CANNERS ASSOCIATION. Canned foods in human nutrition. Washington, 1950. 264 p. Ref. 389.1 N2142C

33566 NISSEN-DREJER, R. Salat [Salad]. Oslo, Studielsselskapet for Kosthold og Helse, 1950. 10 p. 389.1 N63S

Nutritive value.

33567 OGILVIE, J. P. Vitamin B in cane molasses. *Sugar News [Manila]* 26:629-630, 634. Nov. 1950. 65.8 Su36

33568 PLATANIA, L. C. La salud depende de las hortalizas. *Chacra* 21(242):21. Jan. 1951. 9 C34

33569 REIS, J. M. DOS. The daily menu and vitamins. (In Portuguese.) *Selec. Agr.* 5(56):65-66. Dec. 1950. 9.2 Se4

33570 ROOT, H. H. Honey in a reducing diet. *Gleanings Bee Cult.* 79:92-93. Feb. 1951. 424.8 G47

33571 SCOTT, C. Crude black molasses, the natural "wonder food." *Sugar News [Manila]* 26:617-629. Nov. 1950. 65.8 Su36

33572 SOKOLOFF, B., and EDDY, W. H. Citrus vitamin P as protection against atomic radiation. *Citrus Indus.* 32(2):5-8, 16. Feb. 1951. 80 C49

33573 SZASZ, R. La vitamínation de la margarine. (Sum.) *Cong. Internatl. des Indus. Agr. Rap.* 8(1):551-552. 1950. 388 C765

33574 WESTERLUND, A. Mother's milk or bottle milk. (In Swedish.) *Mjölkpropagandan*, 27:195, 223-224, 256, 258. Aug.-Oct. 1950. 44.8 M692

#### MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

#### GENERAL

33575 AGENDA des agriculteurs et des industries agricoles, 1951, cinquante-septième. Lyon, 1950. 160 p. 14 Ag33

33576 ALMANAQUE agrícola de El Salvador para el año de 1951. San Salvador, 1951. 54 p. 30.3 AL 64  
Issued by Asociación Cafetalera de El Salvador, Compañía Salvadoreña del Café, S. A., and Banco Hipotecario de El Salvador.

33577 BALLATORE, G. P. The "new genetics" of Russia. (In Italian.) *Italia Agr.* 87:715-718. Dec. 1950. 16 R1

33578 CAMBRIDGE, ENGLAND. UNIVERSITY. SCHOOL OF AGRICULTURE. Agricultural periodicals of the British Isles, 1681-1900, and their location, by F. A. Buttress. Cambridge, 1950. 15 p. 241.9 C14

33579 COMAR, C. L. The use of radioisotopes of copper and molybdenum in nutritional studies. In *Symposium on Copper Metabolism*, Johns Hopkins University, 1950. Copper metabolism, p. 191-215. Ref. Baltimore, Johns Hopkins Press, 1950. 386.2 Sy62  
Includes discussion.

33580 DELAWARE. STATE BOARD OF AGRICULTURE. Annual report, 1949-1950. Del. State Bd. Agr. Annu. Rpt. 40(3), 46 p. 1950. 2 D37B



33581 FONT, R. Les raticides à la ferme et dans les champs. Colon Franç. de Tunisie (ser.7)60(2177):5-6. Dec.23,1950. 24 C712

33582 GOOSSEN. Rattenbekämpfung! Eine Antwort auf viele fragen. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1525-1526. Nov.2,1950. 18 L2346

33583 HARRISON, H. H. Every farm needs bluebirds. Farm J. 75(3):84-85. Mar.1951. 6 F2212

33584 HEADY, E. O. Some fundamentals of conservation economics and policy. J. Farm Econ. 32:1182-1195. Nov.1950. 280.8 J822

33585 HOLMES, E. L. Preventive sanitation. 31. "Warfarin"—new development in rodent control. Bakers Wk. 149(4):33-36. Jan.22,1951. 389.8 B172

33586 IDAHO. DEPT. OF AGRICULTURE. Sixteenth biennial report, July 1, 1948 to June 30, 1950. Boise,1950. 53 p. 2 Id1

33587 KESTERTON, W. Cyanide—coyote killer extraordinary. Forest & Outdoors 47(2):17. Feb.1951. 99.8 C16

33588 LOUISIANA. DEPT. OF AGRICULTURE AND IMMIGRATION. Biennial report, 34. Baton Rouge,1950. 94 p. 2 L93R

33589 MATHUR, P. N. Effective number of genes. Cur. Sci. 19:384. Dec.1950. 475 Sci23

33590 MAYFIELD, G. R. The truth about hawks. Farm & Ranch South. Agr. 80(10):12,64-65. Oct.1950. 6 T31

33591 NAFTHALI, J. The field-mouse infestation of our country in 1949-1950. (In Hebrew.) Hassadeh 31:118-121. (To be cont.) Nov./Dec.1950. 26 H27

33592 OYAGUE Y MARIATEGUI, A. Derivados del petróleo al servicio de la agricultura. Cong. Peruano de Quím. Actas y Trab. 1949(2):666-667. 385 C763  
As insecticides, herbicides, and fertilizers (anhydrous ammonia).

33593 PACLT, J. Les profits que la nomenclature zoologique pourrait tirer du schème international de translittération appliqué aux noms cyrilliques. Internatl. Cong. Ent. Proc. 8:995-998. 1950. 422 C76

33594 PENNSYLVANIA ACADEMY OF SCIENCE. Proceedings, 1950. Myerstown,1950. 237 p. 500 P383

33595 QUEENSLAND. DEPT. OF AGRICULTURE AND STOCK. Annual report for the year 1949-50. Brisbane, 1950. 99 p. 23 Q3

33596 ROHWER, S. A. "Pesticide." Agr. Chem. 6:31-33,93,95. Jan.1951. 381 Ag8  
Definition of the term.

33597 ROSTAND, J. La génétique de l'U.R.S.S. contre la génétique classique. Rev. Gén. des Sci. Pures et Appl. 57:183-185. 1950. 473 R324

33598 SAEZ, F. A. Genética y evolución. Cien. e Invest. 6:531-539. Ref. Dec.1950. 475 C482

33599 SCHNICKER, J. L. Control of chemicals in the fiscal year 1949-50. (In Danish.) Tidsskr. f. Planteavl 54:115-131. 1950. 11 T439

Economic poisons.

33600 STUTZ, L. Über die beziehungen zwischen rattenbefall und katzenhaltung in Mannheim. Z. f. Hyg. Zool. u. Schädlingsbekämpf. 38:274-276. Sept.1950. 449.8 Z36

33601 SYMPOSIUM ON COPPER METABOLISM, JOHNS HOPKINS UNIVERSITY, 1950. Copper metabolism: a symposium on animal, plant and soil relationships, sponsored by the McCollum-Pratt Institute of the Johns Hopkins University. Baltimore, Johns Hopkins Press,1950. 443 p. (Johns Hopkins U. McCollum-Pratt Inst. Contrib. 5) 386.2 Sy62

33602 THOMPSON, F. Warfarin progress report. Soap & Sanit. Chem. 27:111. Jan.1951. 307.8 S012  
Rodenticide for farm use.

33603 U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. Report of the chief, 1949/50. Washington,1950. 111 p. 1 C42

33604 U. S. DEPT. OF AGRICULTURE. OFF. OF BUDGET AND FINANCE. Report of the director of finance, 1949/50. Washington,1950. 43 p. 1 B85R

33605 ZANZIBAR PROTECTORATE. DEPT. OF AGRICULTURE. Annual report 1949. Zanzibar,1950. 64 p. 24 Z1

33606 ZIRKLE, C. Death of a science in Russia; the fate of genetics as described in Pravda and elsewhere. Philadelphia, U. Pa. Press,1949. 319 p. 443 Z6

Includes reports of speeches made at the 1948 session of the V. I. Lenin All-Union Academy of Agricultural Sciences.

## HISTORY AND BIOGRAPHY

33607 AMERICAN ASSOCIATION OF CEREAL CHEMISTS. Presentation of the Thomas Burr Osborne medal to W. F. Geddes, May 18, 1950. Cereal Chem. 27(6,sup.),34 p. Nov.1950. 59.8 C33  
Includes list of his publications.

33608 APPLEBAUM, S. How the Romans tilled our land. Farmers Wk. [London] 33(25):43. Dec.22,1950. 10 F2226

33609 BIRCHFIELD, J. The ringing voice of William Cobbett. Land 9:529-534. Winter 1950/51. 279.8 L22

33610 BOSCHMA, H. Alida Margaretha Buitendijk, 1 April 1903 - 12 September 1950. (In Dutch.) Ent. Ber. 13:177-178. Dec.1,1950. 420 N38B

33611 BRINK, W. Big Hugh, the father of soil conservation. New York, Macmillan,1951. 167 p. 120 B43

33612 CATTORINI, P. E. Pietro Rossi, physician and botanist. (In Italian.) Fitoterapia 21:125-127. July/Sept.1950. 450 F55

33613 EWAN, J. Rocky Mountain naturalists. Denver, U. Denver Press,1950. 358 p. 119 Ew1  
Includes chapters on E. James, J. C. Fremont, C. C. Parry, E. L. Greene, T. C. Porter, H. N. Patterson, M. E. Jones, E. Penard, and T. D. A. Cockerell.

33614 FAYOL, A. Olivier de Serres, père de l'agriculture (1539-1619). Nature [Paris] 3187:348-350. Nov. 1950. 473 N21

33615 FLEISCHER, K. Dr. Johannes Dzierzon. Bienenwarte 3:274-275. (Concl.) Nov.10,1950. 424.8 B4722

33616 FRANCE. INSTITUT FRANÇAIS DU CAOUT-CHOUC, PARIS. Hommage de la ville de Paris à François Fresneau, le père du caoutchouc, le dimanche, 9 octobre, 1949. Marennes, Barbault,1950. 26 p. 120 F892

33617 GACHOT, H. Le Professeur Hermann Muller-Thurgau (1850-1927), un grand oenologue suisse, le père du jus de raisin européen. Raisins et Fruits de France 8(24):10-11. Oct./Dec.1950. 80 R132

33618 GARCIA-BADELL, J. G. 1858: Pasteur y la agricultura. Tolva 8:379-387. Oct.1950. 59.8 T58T

33619 HECKEL, F. Men or organiculture: Ehrenfried Pfeiffer. Org. Gard. 18:27-29. Jan.1951. 56.8 Or3

33620 JESNESS, O. B., and others. Andrew Boss, agricultural pioneer and builder, 1867-1947. Saint Paul, Itasca Press,1950. 113 p. Ref. 120 B652J

W. P. Kirkwood, H. K. Hayes, W. H. Tomhave, F. W. Peck, W. C. Coffey, and A. H. Gilmore, joint authors.

33621 KOJIMA, T. Nihon nogyo gijitsushu [History of agricultural technique in Japan]. Tokyo, Jichosha,1950. 2 v. 34.3 K82

33622 KULJABKO, E. S. Lomonosov as a botanist. (In Russian.) Akad. Nauk SSSR. Vest. 20(9):78-82. Sept. 1950. 511 Ak14V

33623 KUSHEV, V. A worthy scientist of RSFSR, M. N. Rimskiy-Korsakov. (In Russian.) Lesn. Khoz. 3(8):92-93. Aug.1950. 99.8 L5622

33624 LEON, J. Henri F. Pittier. Turrialba 1:6. July 1950. 8 T86

33625 LUPO, V. Giuseppe Bellio. (In Italian.) Lab. di Ent. Agr. B. 9:111-114. Ref. 1949. 420 P82B

33626 MACKAY, A. I. Farming and gardening in the Bible. Emmaus, Pa., Rodale,1950. 280 p. 30.9 M19

33627 MEADOWS, P. Achille Loria: agrarian determinist. Amer. J. Econ. & Sociol. 10:175-184. Jan.1951. 280.8 Am393

33628 MERKT. Alpwirtschaft in alter zeit. Auf der Alpe 1950:93. (Concl.) Dec.1950. 18 Au3

33629 MÜGGE. Bilder aus der geschichte der deutschen landwirtschaft. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1791-1792. (Cont.) Dec.21,1950. 18 L2346

33630 MÜLLER, F. Adolf Wetzels-Huber, Bazenheid. Schweiz. Bienen-Ztg. 73:571. Dec.1950. 424.8 Sch9

33631 NEEDHAM, J. G. To Doctor Philip Powell Calvert, Editor Emeritus of Entomological News, octogenarian odonatologist, generous colleague counselor and friend. Ent. News [Philadelphia] 62:2-40. Jan.1951. 421 En88

Bibliography of Philip P. Calvert, compiled by R. G. Schmieder and M. E. Phillips, p. 3-40.

33632 PRASADA, R. Dr. U. B. Singh, 1904-1949. Indian Phytopath. 2:107. 1949. 464.8 In2



33633 PUCHOIS, P. La vie et l'oeuvre scientifique du Professeur Henri Vallée (1874-1947). Arras, L'Artois, 1950. 60 p. 120 V24

33634 ROBERTI, D. Dr. Anselmo La Ferla (obituary) (In Italian.) Lab. di Ent. Agr. B. 9:76-77. 1949. 420 P82B

33635 RUSSO, G. Filippo Silvestri: necrological note; curriculum vitae; list of publications. (In Italian.) Lab. di Ent. Agr. B. 9:i-xlix. 1949. 420 P82B

33636 SALVADOR Y ASCASO, J. M. El campo de la historia en la historia del campo. Saragossa. Cám. Ofic. Sind. Agr. B. Mens. 30:9. (Cont.) Nov. 1950. 15 Sa7

33637 SIEBERT, L. Karl der Grosse als agrarier. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1706. Dec. 7, 1950. 18 L2346

33638 STRASSER, F. Fritz Maag, Bachenbühlach Zch. 1883-1950. Schweiz. Bienen-Ztg. 73:569. Dec. 1950. 424.8 Sch9

33639 TAYLOR, P. R. Prophet of sod; the second of two articles on Arthur J. Mason, engineer and husbandman. Land 9:515-521. Winter 1950/51. 279.8 L22

33640 VILLEGAS G., C. Esbozos biográficos: Benjamin Muñoz Glnarte. Agrotecnia 4:25-27. Sept./Dec. 1950. 8 Ag825

33641 WIRTHLIN, H. Frau Lina Bauer-Dübendorfer, Mühlin. Schweiz. Bienen-Ztg. 73:570. Dec. 1950. 424.8 Sch9

### HOME MANAGEMENT

33642 ARMSTRONG, O., and WALKER, M. Better buying, for 4-H Club members. Okla. Agr. Col. Ext. C. 547,8 p. n.d. 275.29 Ok41C

33643 BEVERIDGE, E. Tools for food preparation and dishwashing. U. S. D. A. Home & Gard. B. 3,31 p. Jan. 1951. 1 Ag84Hg

33644 BLACK, S. Refinish your furniture. Pa. State Col. Agr. Ext. C. 372,17 p. Nov. 1950. 275.29 P38C

33645 CHURCH, H. L. Making your first dress; 2nd year 4-H clothing. Ariz. Agr. Col. Ext. C. 166,27 p. Oct. 1950. 275.29 Ar42

33646 DAVIS, E. C. The home economist and television. Washington, U. S. Bur. Human Nutr. & Home Econ., 1950. 8 p. 1.982 A2D29

Talk before the North Carolina Dietetic Association meeting, Nov. 9, 1950.

33647 FUNK, E. Refinishing furniture. Okla. Agr. Col. Ext. C. 265,16 p. n.d. 275.29 Ok41C

33648 STEWART, J. M. Homemakers' club handbook. Ariz. Agr. Col. Ext. C. 164,15 p. Sept. 1950. 275.29 Ar42 Home demonstration work.

### INTERNATIONAL RELATIONS

33649 BRANNAN, C. F. Hemispheric strength through a mutually prosperous agriculture. Washington, U. S. D. A., Off. Sec., 1950. 9 p. 1.91 A2B73

Address, Fourth Inter-American Conference on Agriculture and Second Latin American Regional Meeting of the U. S. Food and Agriculture Organization, Montevideo, Uruguay, Dec. 4, 1950.

33650 CÁMARA, A. Agricultural exchange of the Iberian Peninsula with the Ibero-American countries. (In Portuguese.) Agros [Lisboa] 33:187-198. Sept./Oct. 1950. 15.5 Ag82

33651 ENSMINGER, D. Exchanging "know how." Foreign Agr. 15:37-38. Feb. 1951. 1.9 Ec7For

International exchange of information and of agricultural students and leaders.

33652 HANNAH, J. A. Land-grant institutions in Point Four; the 'people's colleges' are making an increasingly important contribution to the foreign policy of the United States. Foreign Agr. 15:41-43. Feb. 1951. 1.9 Ec7For

33653 U. S. EXTENSION SERV. Guiding plan of operation for the exchanges from other countries, International Farm Youth Exchange Project. Washington, 1950. 8 p. 1.913 O2G942

33654 U. S. EXTENSION SERV. Guiding plan of operation for the selection and placement of U. S. delegates to other countries, 1951 International Farm Youth Exchange Project. Washington, 1950. 8 p. 1.913 O2G943

### METEOROLOGY

33655 BEAUMONT, R. T. Cloud milking still uncertain business. Wash. Farmer 76:5,7. Jan. 4, 1951. 6 R151 Condensed by G. N. Angell.

33656 FRIGGENS, P. Can the rain makers regulate the weather? Farm J. 75(3):34-35, 100, 102-104. Mar. 1951. 6 F2212

33657 FROSTENSON, P. D. Is it possible to make rain? (In Swedish.) Lantmannen 34:993-994. Dec. 23, 1950. 11 L234

33658 KIRK, D. W. Moisture regions in the East Kootenay lowlands of British Columbia. Sci. Agr. 31:15-24. Jan. 1951. 7 Sci2

33659 KRICK, I. P. 1951 spring weather, cold or warm? Amer. Fruit Grower 71(2):18-19. Feb. 1951. 80 G85

33660 MANNING, H. L. Confidence limits of expected monthly rainfall. J. Agr. Sci. [London] 40:169-176. Ref. Jan./Apr. 1950. 10 J822

33661 OSBORNE, H. B. White fury. West. Farm Life 53(2):5,12;(3):9,20. Jan. 15-Feb. 1, 1951. 6 R153 Blizzards of the Western States.

33662 SANSON, J. Bilan pluviométrique des cinq dernières années agricoles. France. Min. de l'Agr. B. Tech. d'Inform. 54:675-676. Nov. 1950. 14 F844B

33663 SIDGEWICK, J. B. Man makes rain. Westralian Farmers' Co-op. Gaz. 19:321,323,325-326. Nov. 1950. 280.28 W522

33664 SMITH, H. V. Arizona weather and agriculture. Prog. Agr. Ariz. 2(4):8. Jan./Mar. 1951. 6 P9452

33665 STAPLETON, H. N. Meteorological observations for September 1950. Mass. Agr. Expt. Sta. Met. Ser. B. 741,4p. Sept. 1950. 100 M38H

### PERSONNEL

33666 U. S. DEPT. OF AGRICULTURE. OFF. OF PERSONNEL. Employment opportunities in the Department of Agriculture for college students graduating on or before June 30, 1951. Washington, 1950. 17 p. 1.917 A2Em76

### RESEARCH

33667 APAL'KOV, I. E., and LITVINENKO, A. N. Creative collaboration of scientific workers of agricultural institutes with production. (In Russian.) Sovet. Agron. 8(9):72-78. Sept. 1950. 20 So84

33668 ARAGÃO, H. DE B. Historical note on the foundation of the Instituto Oswaldo Cruz. (Instituto de Manguinhos). (In Portuguese.) Inst. Oswaldo Cruz. Mem. 48:1-50. 1950. 448.9 In74

33669 ARKANSAS. AGRICULTURAL EXPERIMENT STATION. Applying science to farm problems; fifty-ninth report, 1948/50. Ark. Agr. Expt. Sta. B. 505,31 p. Dec. 1950. 100 Ar42

33670 BALKS, R. 80 Jahre Landwirtschaftliche Untersuchungs- und Forschungsanstalt Münster. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:45-46. Jan. 11, 1951. 18 L2346

33671 BUTLER, E. Amarillo-Texas Panhandle's experiment station. Prog. Farmer, Tex. Ed. 66:18,76-89. 86. Jan. 1951. 6 T311

Work of the Conservation Experiment Station.

33672 GEILER, H. F. Die erforschung der landwirtschaftlichen arbeits- und betriebsverhältnisse; zur verlagerung des Imbshäuser Instituts nach Bad Kreuznach. Tech. f. Bauern u. Gärt. Ausg. A 2:456-458. Aug. 25, 1950. 58.8 T223

33673 MCCAIN, J. A. Progress in American agriculture; it's been made possible by hard-working scientists. (Sum.) Feed Bag 27:72. Jan. 1951. 389.78 F32

33674 MERRIAM, A. L. Beltsville of the West; the story of the Agricultural Experiment Station at Davis, Calif. Pacific Grange Farmer 1951:1-2, 10-11. Jan. 1951. 6 P115

33675 NATIONAL INSTITUTE OF SCIENCES OF INDIA. Annual report, 1949. Natl. Inst. Sci. India. Proc. 16:315-375. Sept./Oct. 1950. 513 N212 Includes agricultural research.

33676 NEVADA. AGRICULTURAL EXPERIMENT STATION. Annual report of the board of control, 1948/49. Reno, 1950? 73 p. 100 N41S



- 33677 POE, W. D. How an experiment station does its research. Prog. Farmer, Carolinas-Va. Ed. 66(2): 17,121-122. Feb.1951. 6 P945
- 33678 RINTELEN. Die versuchsgüter der Landwirtschaftskammer Westfalen-Lippe. Landwirt. Wchnbl. f. Westfalen u. Lippe 107A:1765-1766. Dec.21,1950. 18 L2346
- 33679 SINGH, S. D. Agricultural research in India. Indian Farming 11:99-108. Mar.1950. 22 In283
- 33680 SWANSON, C. L. W. Seventy-five years young; the oldest agricultural experiment station in America. World Crops 3:63-64. Feb.1951. 281.8 W892 Connecticut Agricultural Experiment Station.
- 33681 U. S. OFF. OF EXPERIMENT STATIONS. The Federal Experiment Station in Puerto Rico, Mayaguez, Puerto Rico; its purpose, organization, and achievements. Washington?1950. 14 p. 1.912 F312
- 33682 UTAH. AGRICULTURAL EXPERIMENT STATION. Biennial report 1948-50. Utah. Agr. Expt. Sta. B. 343,62 p. Dec.1950. 100 Utl

- 33683 WISCONSIN. AGRICULTURAL EXPERIMENT STATION. What's new in farm science; sixty-sixth annual report, 1948/49. I. Wis. Agr. Expt. Sta. B. 491,88 p. Sept.1950. 100 W75

# STATISTICS

- 33684 ALCARAZ LUNA, M. El método en la confección de estadísticas agrícolas. Rev. Sind. de Estadís. 5(19):51-53. July/Sept.1950. 263 Es3B
- 33685 IYENGAR, R. L. N., and AHMAD, N. Determination of the maturity coefficient for Indian cottons. Indian J. Agr. Sci. 19:181-206. Ref. June 1949. 22 Ag831
- 33686 SILVA, J. F. DA. Statistical methods. (In Portuguese.) Agros [Lisboa] 33:148-163. (Cont.) July/Aug.1950. 15.5 Ag82
- 33687 U. S. BUR. OF AGRICULTURAL ECONOMICS. The statistical analysis of cycles or oscillations in time series, by R. J. Foote. Washington,1950. 19 p. 1.941 A22St23
- 33688 WELLS, O. V. Agricultural statistics as an aid to research, service, and administration. J. Farm Econ. 32:858-864. Nov.1950. 280.8 J822



U. S. D. A. PUBLICATIONS

Includes publications of the United States Department of Agriculture received in the Library during the preceding month, except restricted publications and materials issued for internal administrative use rather than for public distribution.

Periodicals issued by the Department are listed in the November issue only; articles in them are indexed currently.

Domestic requests for publications in the various Department series will be filled free upon application to the Office of Information, United States Department of Agriculture, Washington 25, D. C., as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington 25, D. C.

Bureau publications may ordinarily be obtained free of charge from the issuing bureau as long as the supply lasts.

Foreign institutions, organizations and agencies which issue publications may obtain United States Department of Agriculture publications in exchange by writing to the United States Department of Agriculture Library, Washington 25, D. C.

Agricultural Handbooks

LIFQUIST, R. C., and TATE, E. B. Planning food for institutions. U. S. D. A. Agr. Handbk. 16,95 p. Ref. Jan.1951. 1 Ag84Ah

SIMMONS, F. C. Northeastern loggers' handbook. U. S. D. A. Agr. Handbk. 6,160 p. Jan.1951. 1 Ag84Ah

Agricultural Information Bulletins

CARLSEN, E. W., and STOKES, D. R. Pre-packaging apples at point of production. U. S. D. A. Agr. Inform. B. 29,52 p. Jan.1951. 1 Ag84Ab

HARWELL, E. M., and SHAFFER, P. F. The check-out operation in self-service retail food stores. U. S. D. A. Agr. Inform. B. 31,72 p. Jan.1951. 1 Ag84At

NIEDERFRANK, E. J., and MUSSELMAN, V. Planning recreation for rural home and community. U. S. D. A. Agr. Inform. B. 20,60 p. Nov.1950. 1 Ag84Ab

Agricultural Monographs

DIEHL, W. W. Balansia and the Balansiae in America. U. S. D. A. Agr. Monog. 4,82 p. Ref. Dec. 1950. 1 Ag84Am

MARIS, P. V. The land is mine; from tenancy to family farm ownership. U. S. D. A. Agr. Monog. 8, 367 p. Nov.1950. 1 Ag84Am

PEARSON, G. A. Management of ponderosa pine in the Southwest, as developed by research and experimental practice. U. S. D. A. Agr. Monog. 6,218 p. Ref. 1950. 1 Ag84Am

Circulars

NEWCOMER, E. J. Orchard insects of the Pacific Northwest and their control. U. S. D. A. C. 270, rev.,63 p. Oct.1950. 1 Ag84C

RHOADS, A. S. Clitocybe root rot of woody plants in the southeastern United States. U. S. D. A. C. 853,25 p. Ref. Dec.1950. 1 Ag84C  
Caused by the fungus *Clitocybe tabescens*.

Farmers' Bulletins

MCCOMAS, E. W. Beef production on the farm. U. S. D. A. Farmers' B. 1592, slightly rev.,14 p. Sept.1950. 1 Ag84F

MORRISON, W. W. Preparing strawberries for market. U. S. D. A. Farmers' B. 1560,rev.,16 p. July 1950. 1 Ag84F

Home and Garden Bulletins

BEVERIDGE, E. Tools for food preparation and dishwashing. U. S. D. A. Home & Gard. B. 3,31 p. Jan.1951. 1 Ag84Hg

Leaflets

FLEMING, W. E. Protection of turf from damage by Japanese beetle [*Popillia japonica*] grubs. U. S. D. A. L. 290,8 p. 1950. 1 Ag84L

U. S. EXTENSION SERV. Grading soft red winter wheat at country points. U. S. D. A. L. 298,8 p.-folder. Dec.1950. 1 Ag84L  
Formerly AIS-33.

Miscellaneous Publications

HITCHCOCK, A. S. Manual of the grasses of the United States. Ed. 2, rev. by A. Chase. U. S. D. A. Misc. P. 200,1051 p. Feb.1951. 1 Ag84M

RANDALL, C. E., and HEISLEY, M. F. Our forests: what they are and what they mean to us. U. S. D. A. Misc. P. 162,rev.,38 p. Oct.1950. 1 Ag84M

U. S. BUR. OF ANIMAL INDUSTRY. The National Poultry Improvement Plan. U. S. D. A. Misc. P. 300,rev.,36 p. June 1950. 1 Ag84M

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Plans of farm buildings for Northeastern States. U. S. D. A. Misc. P. 278, rev.,126 p. 1950. 1 Ag84M

Statistical Bulletins

U. S. BUR. OF AGRICULTURAL ECONOMICS. Feed statistics, including wheat, rye, rice. U. S. D. A. Statis. B. 95,53 p. Dec.1950. 1 Ag84St

Technical Bulletins

COTTON DISEASE COUNCIL. COMMITTEE ON COTTON SEEDLING DISEASES. Cottonseed treatment: its effect on seedling emergence, seedling survival, plant stands, and yields. U. S. D. A. Tech. B. 1025,134 p. Ref. Dec.1950. 1 Ag84Te

DOUGLAS, W. A., and TULLIS, E. C. Insects and fungi as causes of pecky rice. U. S. D. A. Tech. B. 1015,20 p. Dec.1950. 1 Ag84Te

HECHT, R. W., and BARTON, G. T. Gains in productivity of farm labor. U. S. D. A. Tech. B. 1020, 121 p. Ref. Dec.1950. 1 Ag84Te

U. S. PRODUCTION AND MARKETING ADMIN. Methods and costs of producing alcohol from grain by the fungal amylase process on a commercial scale. U. S. D. A. Tech. B. 1024,38 p. Ref. Aug.1950. 1 Ag84Te

U. S. Bureau of Agricultural and Industrial Chemistry cooperating.

AGRICULTURAL AND INDUSTRIAL CHEMISTRY, BUREAU OF

TEUTON, F. L. New uses for farm products. Washington, U. S. Bur. Agr. & Indus. Chem.,1951. 9 p. 1.98 T29

U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. Report of the chief, 1949/50. Washington,1950. 111 p. 1 C42

AGRICULTURAL ECONOMICS, BUREAU OF

STAUBER, B. R. The outlook for prices of commodities used for family living. Washington, U. S. Bur. Agr. Econ.,1950. 5 p. 1.941 A2St22

Address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 31, 1950.

STIPPLER, H. H., and PETERSON, A. W. Electricity on farms in northwestern Washington. U. S. Bur. Agr. Econ. FM 77,105 p. June 1950. 1.941 L6F22  
Washington Agricultural Experiment Station cooperating.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Analysis of methods of collecting data for tobacco market news. Washington,1950. 11 p. 1.941 A22An1

U. S. BUR. OF AGRICULTURAL ECONOMICS. Apples: usual time of bloom and harvest by States, commercial areas, and varieties, by C. D. Palmer and E. O. Schlotzhauer. Washington,1950. 11 p. 1.941 H2Ap52

U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle on feed, January 1,1951. Washington,1951. 2 p. 1.9 Ec742Caf



U. S. BUR. OF AGRICULTURAL ECONOMICS. Chicks placed weekly in seven principal commercial broiler producing areas in 1950. Washington, 1951. 2 p. 1.941 H8C4322

U. S. BUR. OF AGRICULTURAL ECONOMICS. Fiber consumption in textiles used for passenger automobile interiors. Preliminary summary report. Washington, 1950. 5 p. 1.941 H22F44

U. S. BUR. OF AGRICULTURAL ECONOMICS. Grove-to-retail margins for Florida Valencia oranges marketed in fresh form in selected cities, 1940-48, by W. C. Lilleholm. Washington, 1950. 22 p. 1.941 F3G91

U. S. BUR. OF AGRICULTURAL ECONOMICS. Honey and beeswax production, 1950. Washington, 1951. 8 p. 1.941 H8H75

U. S. BUR. OF AGRICULTURAL ECONOMICS. January 1, 1951 merchantable potato stocks largest of record. Washington, 1951. 4 p. 1.941 S8P85

U. S. BUR. OF AGRICULTURAL ECONOMICS. Merchantable potato stocks report, Jan. 1, 1951. Fargo, 1951. 2 p. 1.941 H8P84

U. S. BUR. OF AGRICULTURAL ECONOMICS. 1950 summary of American cheese warehouse statistics. Chicago, 1951. 8 p. 1.941 H8C41

U. S. BUR. OF AGRICULTURAL ECONOMICS. Production, farm disposition and value principal fruits and tree nuts, 1949 and 1950 seasons. Washington, 1951. 22 p. 1.941 H8F942

U. S. BUR. OF AGRICULTURAL ECONOMICS. Rations fed to milk cows, 1950, by J. L. Wilson, O. E. Grenier, and B. H. Bennett. Washington, 1951. 35 p. 1.941 H8F32

U. S. BUR. OF AGRICULTURAL ECONOMICS. The size distribution of farm cooperators' income in 1946, by N. M. Koffsky and J. E. Lear. Washington, 1950. 32 p. 1.941 F2S19

U. S. BUR. OF AGRICULTURAL ECONOMICS. The statistical analysis of cycles or oscillations in time series, by R. J. Foote. Washington, 1950. 19 p. 1.941 A22St23

#### ANIMAL INDUSTRY, BUREAU OF

U. S. BUR. OF ANIMAL INDUSTRY. Program for employment of veterinary trainees. Washington, 1950. 5 p. 1.972 A2P945

U. S. BUR. OF ANIMAL INDUSTRY. Report of the chief, 1949/50. Washington, 1950. 105 p. 1 An5A

#### BUDGET AND FINANCE, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF BUDGET AND FINANCE. Report of the director of finance, 1949/50. Washington, 1950. 43 p. 1 Ag84

#### COMMODITY CREDIT CORPORATION

U. S. COMMODITY CREDIT CORPORATION. Report of the president, 1949/50. Washington, 1950. 22 p. 1 C731

#### COMMODITY EXCHANGE AUTHORITY

U. S. COMMODITY EXCHANGE AUTHORITY. Report of the administrator, 1949/50. Washington, 1950. 32 p. 1 C73Rea

#### ENTOMOLOGY AND PLANT QUARANTINE, BUREAU OF

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. The black widow spider. Washington, 1950. 2 p. 1.967 A2B56

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Composition and designation of the preparation EQ 335 screw-worm remedy. Washington, 1950. 3 p. 1.967 A2C73

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. List of entomological (E-series) publications 782 to 811. U. S. Bur. Ent. & Plant Quar. E-812, 4 p. Jan. 1951. 1.9 En83

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. List of entomological technique (ET-series) publications 271 to 291. U. S. Bur. Ent. & Plant Quar. ET-292, 2 p. Jan. 1951. 1.9 En83Et

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. List of publications of the Division of Insecticide Investigations for the period July 1, 1950 to December 31, 1950, by R. C. Roark. Washington, 1950. 3 p. 1.9 En866P

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Potato leafhopper (*Empoasca fabae* (Harr.)). U. S. D. A. Picture Sheet 8, rev., 2 p. Nov. 1950. 1 En86P

WRIGHT, L. K. Barberry eradication status and needs. Washington, U. S. Bur. Ent. & Plant Quar., 1950. 8 p. 1.967 P3W93

Talk at Stem Rust Conference, University Farm, St. Paul, Nov. 17, 1950.

#### EXPERIMENT STATIONS, OFFICE OF

JONES, M. A., and ARRILLAGA, N. G. The production of lemon-grass oil. P. R. Fed. Expt. Sta. B. 50, 41 p. Ref. Nov. 1950. 1 Ex65  
Lemongrass culture and processing.

U. S. OFF. OF EXPERIMENT STATIONS. The Federal Experiment Station in Puerto Rico. Mayaguez, Puerto Rico; its purpose, organization, and achievements. Washington? 1950. 14 p. 1.912 F312

#### EXTENSION SERVICE

BOATMAN, J. L. Extension education in soil and water conservation. Washington, U. S. Ext. Serv., 1950. 8 p. 1.913 A2B63

Talk at Extension Soil Conservationists' Conference, Spring Mill State Park, Ind., Oct. 9, 1950.

BOATMAN, J. L. Soil conservation district administration. Washington, U. S. Ext. Serv., 1950. 7 p. 1.913 A2B63

Talk given at a recognition meeting of soil conservation district government bodies, St. Cloud, Minn., Sept. 18, 1950.

MAUCH, A. Public policy education in extension. Washington, U. S. Ext. Serv., 1950. 6 p. 1.913 E2P96

Presented at Extension Conference, University of Nebraska, Nov. 2, 1950.

SCHLUP, L. A. The district supervisors' stake in county Extension public relations. Washington, U. S. Ext. Serv., 1950. 8 p. 1.913 I2D632

Presented at Extension intra-regional conferences of district supervisors in the South.

SEEGMILLER, K. L. County governments and their relation to the Cooperative Extension Service. Washington, U. S. Ext. Serv., 1950. 5 p. 1.913 A2C83

Address before joint meeting of the Extension Sections of the Agriculture and Home Economics Divisions of the Land-Grant College Association meeting, Washington, D. C., Nov. 13, 1950.

U. S. EXTENSION SERV. Agricultural engineering extension work. Washington? 1951. 12 p. 1.913 E5Ag8

U. S. EXTENSION SERV. Guiding plan of operation for the exchanges from other countries, International Farm Youth Exchange Project. Washington, 1950. 8 p. 1.913 O2G942

U. S. EXTENSION SERV. Guiding plan of operation for the selection and placement of U. S. delegates to other countries, 1951 International Farm Youth Exchange Project. Washington, 1950. 8 p. 1.913 O2G943

U. S. EXTENSION SERV. National 4-H Club Week, March 3-11, 1951. Washington, 1951. 4 p. 1.913 F3N217

U. S. EXTENSION SERV. Report of cooperative extension work in agriculture and home economics, 1949/50. Washington, 1950. 75 p. 1 Ex892R

#### FARM CREDIT ADMINISTRATION

LEBEAU, O. R. Educational practices of farmer cooperatives. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. Misc. Rpt. 140, 53 p. Jan. 1951. 166.3 M68



RATCLIFFE, H. E. Cooperative marketing of eggs and poultry in Ohio. U. S. Farm Credit Admin. B. 59,69 p. May 1950. 166.2 B87

#### FOREIGN AGRICULTURAL RELATIONS, OFFICE OF

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Published information on agriculture in foreign countries, January 1937 - December 1950. Washington, 1951. 56 p. 1.943 In3

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. World food situation, 1951. U. S. Off. Foreign Agr. Relat. WFP-1-51,68 p. Feb.8,1951. 1.943 F7625

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. World summaries of crop and livestock statistics; schedule of contents and release dates for 1951. Washington, 1951. 6 p. 1.943 W896

#### FOREST SERVICE

BOLLER, K. H. Effect of moisture absorption on flexural properties of a glass-fabric-polyester laminate. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1819, 4 p. Oct.1950. 1.9 F761R

BROWNE, F. L. The two-coat system of house painting. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1259, rev., 21 p. Ref. Nov.1950. 1.9 F761R

DICKERMAN, M. B. The meaning of conservation. Missoula? U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta., 1950. 8 p. 1.962 F4D55  
Talk at annual meeting of the Western Farm Economics Association, Pullman, June 28, 1950.

ENGLE, L. G. Releasing white pine from oak and aspen. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 346, 2 p. Jan.1951. 1.9 F7625T

GEVORKIANTZ, S. R. Distribution of volume in Lake States trees. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 347, 1 p. Jan.1951. 1.9 F7625T

HULL, A. C., JR., and DORAN, C. W. Preliminary guide to reseeding pinyon-juniper lands of western Colorado. U. S. Forest Serv. Rocky Mountain Forest & Range Expt. Sta. Paper 4, 16 p. Dec.1950. 1.9622 R2St2

MCGOVERN, J. N., and MACKIN, G. E. Farm woodlot aspen for creped tissue paper. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1783, 6 p. Nov.1950. 1.9 F761R

MCMLLEN, J. M. How can maple and birch sapwood be dried without sticker stain? U. S. Forest Serv. Forest Prod. Lab. News & Views This Kiln Drying Business. Rpt. D1769-6, 1 p. Sept.1950. 1.9 F761R

MATSON, E. E., and RAPRAEGER, H. A. Fall Creek second-growth Douglas-fir thinning study. U. S. Forest Serv. Pacific Northwest Forest & Range Expt. Sta. Res. Note 90, 13 p. Nov.1950. 1.9 F7629Fr

NEETZEL, J. R. Cost of setting fence posts in Minnesota. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 350, 1 p. Jan.1951. 1.9 F7625T

PECK, E. C. Air drying of lumber. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1657, rev., 18 p. Nov.1950. 1.9 F761R

RASMUSSEN, E. F., and MCMLLEN, J. M. Seasoning of white oak for tight cooperage. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1784, 15 p. Nov.1950. 1.9 F761R

RIETZ, R. C. Importance of dry lumber. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1779, 7 p. 1950. 1.9 F761R

RIETZ, R. C. What are the advantages and disadvantages of the package-loaded, trackless dry kiln? U. S. Forest Serv. Forest Prod. Lab. News & Views This Kiln Drying Business. Rpt. D1769-7, 1 p. Nov.1950. 1.9 F761R

RIETZ, R. C. What are the principal advantages in seasoning lumber? U. S. Forest Serv. Forest Prod. Lab. News & Views This Kiln Drying Business. Rpt. D1769-5, 1 p. Aug.1950. 1.9 F761R

RUDOLF, P. O. Lake States forest trees produce good seed crop in 1950. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 349, 2 p. Jan.1951. 1.9 F7625St

STAMM, A. J., and SEBORG, R. M. Forest Products Laboratory resin-treated wood (impreg). U. S. Forest Serv. Forest Prod. Lab. Rpt. 1380, rev., 8 p. Nov. 1950. 1.9 F761R

STOECKELER, J. H. Proper watering in the nursery produces drought-hardy jack pine. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 348, 1 p. Jan.1951. 1.9 F7625St

STOECKELER, J. H., and LIMSTROM, G. A. Reforestation research findings in northern Wisconsin and upper Michigan. U. S. Forest Serv. Lake States Forest Expt. Sta. Paper 23, 34 p. Dec.1950. 1.9622 L2St2

TARKOW, H., STAMM, A. J., and ERICKSON, E. C. O. Acetylated wood. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1593, rev., 15 p. Ref. Aug.1950. 1.9 F761R

TURNER, H. D., and KERN, J. D. Relation of several formation variables to properties of phenolic-resin-bonded wood-waste hardboards. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1786, 6 p. Nov.1950. 1.9 F761R

U. S. FOREST SERV. Cooperation in forestry; report of the chief, 1949/50. Washington, 1950. 69 p. 1 F76

U. S. FOREST SERV. Starting a community forest. Washington, 1950. 4 p. 1.962 S2St2

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on pulp and paper. U. S. Forest Serv. Forest Prod. Lab. Rpt. R444, 40 p. Nov.1950. 1.9 F761R

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on the seasoning of wood. U. S. Forest Serv. Forest Prod. Lab. Rpt. R446, 17 p. Oct.1950. 1.9 F761R

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on wood preservation. U. S. Forest Serv. Forest Prod. Lab. Rpt. R704, 29 p. Nov.1950. 1.9 F761R

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications relating to fungus defects in forest products and to decay in trees. U. S. Forest Serv. Forest Prod. Lab. Rpt. R508, 26 p. Dec. 1950. 1.9 F761R

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Making log cabins endure. U. S. Forest Serv. Forest Prod. Lab. Rpt. R982, rev., 14 p. Ref. Nov. 1950. 1.9 F761R

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Partial list of publications for furniture manufacturers, woodworkers and teachers of wood shop practice. U. S. Forest Serv. Forest Prod. Lab. Rpt. R1775, 14 p. Dec.1950. 1.9 F761R

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Veneer cutting and drying properties; cottonwood. U. S. Forest Serv. Forest Prod. Lab. Rpt. D1766-3, 4 p. Dec.1950. 1.9 F761R

UTAH. BIG GAME, LIVESTOCK, AND RANGE RELATIONSHIP PROJECT. RESEARCH COMMITTEE. A review of Utah's big game, livestock, and range relationship problems. U. S. Forest Serv. Intermountain Forest & Range Expt. Sta. Res. Paper 24, 53 p. Ref. Sept.1950. 1.9622 I2R31

VOSS, A. W., NORRIS, C. B., and PALMA, J., JR. Supplement to buckling of flat plywood plates in compression, shear, or combined compression and shear; buckling of flat plywood plates in uniform shear with face grain at angles of 0°, 45°, and 90°. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1316-H, rev., 16 p. July 1950. 1.9 F761R

WERREN, F., and FREAS, A. D. Strength of scarf and lap joints in glass-fabric-base plastic laminates. U. S. Forest Serv. Forest Prod. Lab. Rpt. 1818, 6 p. Oct.1950. 1.9 F761R

WORTHINGTON, N. P., and TWERDAL, M. P. Contents of a cord of eight-foot pulpwood. U. S. Forest Serv. Pacific Northwest Forest & Range Expt. Sta. Res. Note 69, 6 p. Sept.1950. 1.9 F7629Fr

#### GRADUATE SCHOOL

U. S. DEPT. OF AGRICULTURE. GRADUATE SCHOOL. Graduate School; spring semester schedule of classes, 1950-51. Washington, 1951. 8 p.-folder. 1 Ag854E



## HUMAN NUTRITION AND HOME ECONOMICS, BUREAU OF

DAVIS, E. C. The home economist and television. Washington, U. S. Bur. Human Nutr. & Home Econ., 1950. 8 p. 1.982 A2D29

Talk before the North Carolina Dietetic Association meeting, Nov. 9, 1950.

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Food budgets. Washington, 1950. 3 p. 1.982 A2F7324

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Report of the chief, 1949/50. Washington, 1950. 15 p. 1 H75

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Whole wheat and cracked wheat, economical additions to the diet. Washington, 1950. 6 p. 1.982 A2W62

## INFORMATION, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Better phone service for rural America, by G. W. Haggard, R. A. Dell and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Seed for better forage crops, by W. M. Myers, C. S. Garrison and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11

## PERSONNEL, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF PERSONNEL. Employment opportunities in the Department of Agriculture for college students graduating on or before June 30, 1951. Washington, 1950. 17 p. 1.917 A2Em76

## PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING, BUREAU OF

DILLER, J. D. The planting and care of blight-resistant chestnuts for forest trees. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Forest Path. Spec. Release 15, rev., 7 p. Dec. 1950. 1.965 F3F76

RYALL, A. L., and others. A comparison of transit protective services for Bartlett pears during the early part of the shipping season. U. S. Bur. Plant Indus. Soils, & Agr. Engin. H. T. & S. Off. Rpt. 232, 8 p. Oct. 15, 1950. 1.9 P772Ht

J. R. Clements, W. A. Radspinner, F. W. Allen, and R. W. Harris, joint author.

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Growing sunflowers, by L. M. Pultz. Beltsville? 1950. 7 p. 1.965 T2G912

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Report of the chief, 1949/50. Washington, 1950. 135 p. 1 P69

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. DIV. OF FOREST PATHOLOGY. List of available publications. Rev. Beltsville, Md., 1950. 23 p. 1.965 F3L69

## PRODUCTION AND MARKETING ADMINISTRATION

CROW, W. C. Motortruck transportation and agricultural prosperity of the South. Washington, U. S. Prod. & Mktg. Admin., 1951. 16 p. 1.956 M34C88

Address at annual meeting of the Association of Southern Agricultural Workers, Memphis, Feb. 6, 1951.

GOESLINE, H. E., and others. Sanitation adds to [poultry] product value. Washington, U. S. Prod. & Mktg. Admin., 1951. 6 p. 1.914 R2R11

M. A. Howe, E. R. Baush, and M. F. Gunderson, joint authors.

Paper presented before the Fact Finding Conference of the Institute of American Poultry Industries, Kansas City, Mo., Feb. 12, 1951.

STOOPS, D. Disposal of surplus commodities. Washington, U. S. Prod. & Mktg. Admin., 1950. 5 p. 1.956 A21St7

Speech before the Department of Agriculture participants of the Midcentury White House Conference on children and Youth, Nov. 30, 1950.

U. S. PRODUCTION AND MARKETING ADMIN. An evaluation of the use of the portable platform dial scale for weighing operations in cotton warehouses, by A. W. Steinberg and C. D. Bolt. Washington, 1950. 7 p. 1.956 M343Ev1

U. S. PRODUCTION AND MARKETING ADMIN. Barley: acreage, yield, and production, United States. Washington, 1950. 2 p. 1.956 G76B243

U. S. PRODUCTION AND MARKETING ADMIN. Compilation of statistical material concerning the proposed marketing agreement and order for the western Michigan Marketing area. Washington, 1950. 16 p. 1.956 D14C739

U. S. PRODUCTION AND MARKETING ADMIN. Corn: 1950 commercial area, yield per planted acre (bushels): 1940 through 1949. Washington, 1950? 1 p. 1.956 G76C814

U. S. PRODUCTION AND MARKETING ADMIN. Cropland utilization by commodities, 1940-50, with averages. Washington, 1950. 3 p. 1.956 G76C88

U. S. PRODUCTION AND MARKETING ADMIN. Directory of State departments of agriculture, 1951. Washington, 1951. 49 p. 1.956 A2D624

U. S. PRODUCTION AND MARKETING ADMIN. Dry edible beans: acreage, yield, and production, United States. Washington, 1950. 2 p. 1.956 G76D843

U. S. PRODUCTION AND MARKETING ADMIN. Flaxseed: acreage, yield, and production, United States. Washington, 1950. 2 p. 1.956 G76F61

U. S. PRODUCTION AND MARKETING ADMIN. The inspection of unshelled pecans under the pecan marketing order. Washington, 1950. 18 p. 1.956 F94In742

U. S. PRODUCTION AND MARKETING ADMIN. The marketing of sugarcane in Puerto Rico, by M. E. Miller. Washington, 1950. 44 p. 1.956 Su3M343

U. S. PRODUCTION AND MARKETING ADMIN. Oats: acreage, yield, and production, United States. Washington, 1950. 2 p. 1.956 G76Qa82

U. S. PRODUCTION AND MARKETING ADMIN. Problems and practices in marketing Norfolk spinach, kale, and collards. Washington, 1950. 35 p. 1.956 F94P942

U. S. PRODUCTION AND MARKETING ADMIN. Proposed revision of the Tentative crop grades for unsorted Havana seed tobacco of type 52. Washington, 1950 14 p. 1.956 T55P943

U. S. PRODUCTION AND MARKETING ADMIN. Report of conservation materials and services furnished to farmers under contract and purchase order plans for the 1950 program during the period July through September, and cumulative totals for the 1950 program through September 30, 1950. Washington, 1951. 49 p. 1.956 F45R29

U. S. PRODUCTION AND MARKETING ADMIN. Report of the administrator, 1949/50. Washington, 1950. 83 p. 1.956 A2R29

U. S. PRODUCTION AND MARKETING ADMIN. Revised micronaire fiber-fineness scale for use in testing American upland cottons. Washington, 1950. 2 p. 1.956 C82R32

U. S. PRODUCTION AND MARKETING ADMIN. Rye: acreage, yield, and production, United States. Washington, 1950. 2 p. 1.956 G76R982

U. S. PRODUCTION AND MARKETING ADMIN. The sampling of cotton bales as related to marketing, by R. C. Soxman and G. E. Gaus. Washington, 1950. 26 p. 1.956 C82Sa42

U. S. PRODUCTION AND MARKETING ADMIN. Scorched particle standards for dried milks developed, by D. R. Strobel and C. J. Babcock. Washington, 1950. 6 p. 1.956 D14Sco7

U. S. PRODUCTION AND MARKETING ADMIN. Tobacco: acreage, yield, price per pound, farm value, production, stocks, supply, and disappearance, 1940-50. Washington, 1950. 1 p. 1.956 T55T5523

U. S. PRODUCTION AND MARKETING ADMIN. Universal Cotton Standards Conference of 1950. Washington, 1950. 20 p. 1.9 Ec7Inc

U. S. PRODUCTION AND MARKETING ADMIN. DAIRY BR. Compilation of statistical material concerning Order No. 67 and the South Bend-La Porte, Ind., Marketing area. Washington, 1950. 20 p. 1.956 D14C737



## RURAL ELECTRIFICATION ADMINISTRATION

U. S. RURAL ELECTRIFICATION ADMIN.  
Acquisition of telephone systems. Washington, 1950. 3 p.  
1.933 Ac7

U. S. RURAL ELECTRIFICATION ADMIN.  
Electric radiant house heating. Rev. Washington, 1950.  
10 p. 1.933 Eq53

U. S. RURAL ELECTRIFICATION ADMIN.  
Report of the administrator, 1949/50. Washington, 1950.  
42 p. 173.2 R88A

U. S. RURAL ELECTRIFICATION ADMIN.  
Transmission line manual; physical design considerations. Washington, 1950. 25 p. 1.933 T684

WICKARD, C. R. Electricity in agriculture.  
Washington, U. S. Rur. Electrification Admin., 1951. 13 p.  
1.91 A2W63

Paper presented to the Sectional Meeting of the World  
Power Conference, New Delhi, India, Jan. 10-15, 1951.

WICKARD, C. R. Meeting today's challenge.  
Washington, U. S. Rur. Electrification Admin., 1951. 10 p.  
1.91 A2W63

Address at annual convention of the NRECA, Cleveland,  
Jan. 29, 1951.

## SECRETARY, OFFICE OF

BRANNAN, C. F. Hemispheric strength  
through a mutually prosperous agriculture. Washington,  
U. S. D. A., Off. Sec., 1950. 9 p. 1.91 A2B73

Address, Fourth Inter-American Conference on Agri-  
culture and Second Latin American Regional Meeting of  
the U. S. Food and Agriculture Organization, Montevideo,  
Uruguay, Dec. 4, 1950.

## SOIL CONSERVATION SERVICE

HOCKENSMITH, R. D. A land-capability in-  
ventory basic to soil conservation. Washington, 1950. 8 p.  
1.96 L22Lan

Paper before the Caribbean Soils Conference, Puerto  
Rico, Mar. 30-Apr. 8, 1950.

NORTON, E. A. Watershed protection and in-  
creased production through soil and water conservation.  
Washington, U. S. Soil Conserv. Serv., 1951. 9 p.  
1.96 Su7N

Presented at annual meeting of the Mississippi Valley  
Association, Feb. 13, 1951, St. Louis.

U. S. SOIL CONSERVATION SERV. Basic con-  
siderations in a program of conservation of the land and  
water resources of the nation. Washington, 1950. 9 p.  
1.96 Ad6Bc

U. S. SOIL CONSERVATION SERV. Report of  
the chief, 1949/50. Washington, 1950. 78 p. 1.6 So3R



STATE AGRICULTURAL EXPERIMENT STATIONPUBLICATIONS

April 1951

Includes State Agricultural Experiment Station publications received in the library during the preceding month.

Publications issued by the State Agricultural Experiment Stations are not available from the U. S. Department of Agriculture but are often available from the publishing experiment station.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Arizona Agricultural Experiment Station, Tucson

BARR, G. W. Arizona agriculture, 1951. Ariz. Agr. Expt. Sta. B. 232,17 p. Jan.1951. 100 Ar4

FULLER, W. H., CASTER, A. B., and MCGEORGE, W. T. Behavior of nitrogenous fertilizers in alkaline calcareous soils: I. Nitrifying characteristics of some organic compounds under controlled conditions. Ariz. Agr. Expt. Sta. Tech. B. 120:451-467. Ref. Oct. 1950. 100 Ar4

FULLER, W. H., MARTIN, W. P., and MCGEORGE, W. T. Behavior of nitrogenous fertilizers in alkaline calcareous soils. II. Field experiments with inorganic nitrogenous compounds. Ariz. Agr. Expt. Sta. Tech. B. 121:471-500. Dec.1950. 100 Ar4

Arkansas Agricultural Experiment Station, Fayetteville

MCNEAL, X. Effect of combine adjustment on harvest losses of rice. Ark. Agr. Expt. Sta. B. 500,21 p. Dec.1950. 100 Ar42

CABLE, C. C., JR. Marketing practices of northwest Arkansas broiler producers. Ark. Agr. Expt. Sta. B. 503,37 p. Nov.1950. 100 Ar42

ARKANSAS. AGRICULTURAL EXPERIMENT STATION. Applying science to farm problems; fifty-ninth report, 1948/50. Ark. Agr. Expt. Sta. B. 505,31 p. Dec.1950. 100 Ar42

Colorado Agricultural Experiment Station, Fort Collins

OLSEN, S. R., and others. Utilization of phosphorus by various crops as affected by source of material and placement. Colo. Agr. Expt. Sta. Tech. B. 42,43 p. Ref. Dec.1950. 100 C71S

W. R. Schmehl, F. S. Watanabe, C. O. Scott, W. H. Fuller, J. V. Jordan and R. Kunkel, joint authors.

Georgia Agricultural Experiment Station, Experiment

HARRIS, J. T., and PENNY, N. M. Some economic factors relative to livestock marketing in Georgia. Ga. Agr. Expt. Sta. Mimeog. Ser. 31,51 p. Oct.1950. 100 G29M

Illinois Agricultural Experiment Station, Urbana

WALTERS, C. S., KULP, D. A., and FOX, H. W. Stumps too wet to burn. Ill. Agr. Expt. Sta. Dept. Forestry. Forestry Note 19,2 p. Dec.1,1950. 99.9 IL62

Indiana Agricultural Experiment Station, Lafayette

DENIS, E. C., and BAUMAN, R. H. Livestock costs and returns in southeastern Indiana. Ind. Agr. Expt. Sta. B. 550,23 p. May 1950. 100 In2P

NORTH CENTRAL LAND TENURE RESEARCH COMMITTEE. FARM LAND PRICES SUBCOMMITTEE. Improving land credit arrangements in the Midwest. Ind. Agr. Expt. Sta. B. 551,52 p. June 1950. 100 In2P

WARWICK, E. J., and WILEY, J. R. Progress in inbred lines of swine and their uses in crosses. Ind. Agr. Expt. Sta. B. 552,31 p. Ref. June 1950. 100 In2P

WHITE, M., and PAARLBERG, D. The price and production of broilers. Ind. Agr. Expt. Sta. B. 553, 20 p. July 1950. 100 In2P

PRITCHARD, N. T. The Indianapolis milk market. Ind. Agr. Expt. Sta. B. 554,44 p. Aug.1950. 100 In2P

MILES, S. R., and NEWMAN, J. E. Performance of open-pedigree corn hybrids in Indiana. Ind. Agr. Expt. Sta. C. 340,8 p. July 1950. 100 In2P

LOWERY, O. H. Progress report on the Purdue Electric Farm. Ind. Agr. Expt. Sta. C. 362,15 p. Sept. 1950. 100 In2P

KRAEMER, J. H. Hardi-floor, a vertical wood block flooring. Ind. Agr. Expt. Sta. C. 363,15 p. June 1950. 100 In2P

BINNEY, T. H. Thirty-sixth annual report of the Creamery License Division. Ind. Agr. Expt. Sta. C. 364,15 p. Oct.1950. 100 In2P

FOSTER, G. H. A drying bin for shelled corn and small grain. Ind. Agr. Expt. Sta. C. 365,8 p. Sept. 1950. 100 In2P

INDIANA. AGRICULTURAL EXPERIMENT STATION. Indiana crops and livestock. Ind. Agr. Expt. Sta. Ind. Crops & Livestock 302,4 p. Nov.1,1950. 252.25 Ag8

INDIANA. AGRICULTURAL EXPERIMENT STATION. December 1,1950, pig survey. Lafayette, 1950. 2 p. 252.25 Ag8P

Iowa Agricultural Experiment Station, Ames

MCDONALD, C. W. Lamb production. Iowa. Agr. Expt. Sta. B. P107:611-640. June 1950. 100 Io9

Kansas Agricultural Experiment Station, Manhattan

CLAPP, A. L., and TATUM, L. A. Kansas corn tests, 1949. Kans. Agr. Expt. Sta. B. 342,48 p. Feb. 1950. 100 K13S

Includes a supplement on the European corn borer, by R. H. Painter and D. A. Wilbur.

DOLL, R. J., and CASTLE, E. Suggested adjustments for southwestern Kansas agriculture. Kans. Agr. Expt. Sta. C. 267,34 p. Nov.1950. 100 K13S

Kentucky Agricultural Experiment Station, Lexington

PHILLIPS, C. D., and TURNER, G. E. Wholesale market for fresh fruits, vegetables, poultry, and eggs in Louisville, Kentucky. Ky. Agr. Expt. Sta. C. 69, 80 p. Oct.1950. 100 K41

KENTUCKY. AGRICULTURAL EXPERIMENT STATION. FEED AND FERTILIZER DEPT. Quarterly report on official feed samples analyzed. Ky. Agr. Expt. Sta. Regulat. B. 86,32 p. Nov.1950. 100 K41

KENTUCKY fruit notes 4(3),11 p. Fall 1950. 100 K41K

Louisiana Agricultural Experiment Station, University Station, Baton Rouge

SINGLETARY, C. B., MCCRAINE, S. E., and BERWICK, L. Dehydrated sweet potato meal for fattening steers. La. Agr. Expt. Sta. B. 446,7 p. Sept.1950. 100 L93

Maine Agricultural Experiment Station, Orono

HILBORN, M. T. Blueberry disease research by the Maine Agricultural Experiment Station. Maine. Agr. Expt. Sta. Mimeog. Rpt. 12, 6 p. Dec.1950. 100 M28M

Massachusetts Agricultural Experiment Station, Amherst

STAPLETON, H. N. Meteorological observations for September 1950. Mass. Agr. Expt. Sta. Met. Ser. B. 741,4 p. Sept.1950. 100 M38H



Mississippi Agricultural Experiment Station, State College

BAIN, D. C. Control of seedling diseases of tomato. Miss. Agr. Expt. Sta. Inform. Sheet 456, 1 p. Nov.1950. 100 M69In

BENNETT, H. W., HAMMONS, R. O., and WEISSINGER, W. R. Identification of certain Mississippi grasses by vegetative morphology. Miss. Agr. Expt. Sta. Tech. B. 31,108 p. Ref. July 1950. 100 M69

Missouri Agricultural Experiment Station, Columbia

ALMACK, R. B., and HEPPLER, L. M. Rural social organization in Dent County, Missouri. Mo. Agr. Expt. Sta. Res. B. 458,59 p. Aug.1950. 100 M693

Nebraska Agricultural Experiment Station, Lincoln

DREIER, A. F., and others. Nebraska corn performance tests, 1950. Nebr. Agr. Expt. Sta. Outstate Testing C. 12,15 p. Dec.1950. 100 N270  
J. H. Lonnquist, D. P. McGill, and P. L. Ehlers, joint authors.

LOWREY, G. W., OLSON, R. A., and DREIER, A. F. Commercial fertilizers for oats in Nebraska. Nebr. Agr. Expt. Sta. Outstate Testing C. 13,17 p. Dec. 1950. 100 N270

Nevada Agricultural Experiment Station, Reno

NEVADA. AGRICULTURAL EXPERIMENT STATION. Annual report of the board of control, 1948/49. Reno,1950? 73 p. 100 N41S

New Jersey Agricultural Experiment Station, New Brunswick

AHLGREN, G. H., and DOTZENKO, A. Broomgrass strain performance trials. N. J. Agr. Expt. Sta. B. 753,4 p. Dec.1950. 100 N46S

New York (Cornell) Agricultural Experiment Station, Ithaca

KEARL, C. D. Commercial poultry-farm management in New York State, 1946-47. N. Y. (Cornell) Agr. Expt. Sta. B. 864,22 p. Oct.1950. 100 N48C

KEARL, C. D. Seasonal costs and returns in producing eggs New York, 1946-47. N. Y. (Cornell) Agr. Expt. Sta. B. 865,22 p. Nov.1950. 100 N48C

BUMP, G. Wildlife habitat changes in the Connecticut Hill Game Management area; their effect on certain species of wildlife over a twenty-year period. N. Y. (Cornell) Agr. Expt. Sta. Mem. 289,75 p. Ref. Nov.1950. 100 N48C

SMOCK, R. M., and GROSS, C. R. Studies on respiration of apples. N. Y. (Cornell) Agr. Expt. Sta. Mem. 297,47 p. Ref. Mar.1950. 100 N48C

ANDERSON, W. A. A study of the values in rural living. V. The opinions of university students. N. Y. (Cornell) Agr. Expt. Sta. Mem. 302,73 p. Nov.1950. 100 N48C

North Carolina Agricultural Experiment Station, State College Station, Raleigh

COOKE, H. L., PEEDIN, C. D., and MOORE, R. P. Measured crop performance—corn hybrids, cotton, wheat, oats, barley. N. C. Agr. Expt. Sta. B. 373,43 p. Jan.1951. 100 N81

Ohio Agricultural Experiment Station, Wooster

CONLEY, A. R., and MCBRIDE, C. G. How price plans affect seasonality of milk deliveries from farms. Ohio. Agr. Expt. Sta. Res. B. 700,35 p. Jan.1951. 100 Oh3S

CONWAY, E. A. Timber survey of the Hocking State Forest. Ohio. Agr. Expt. Sta. Res. C. 3,29 p. Dec.1950. 100 Oh3R

Oklahoma Agricultural Experiment Station, Stillwater

OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. European corn borer [*Pyrausta nubilalis*] and southwestern corn borer [*Diatraea grandiosella*] in Oklahoma. Okla. Agr. Expt. Sta. Mimeog. C. M-207,1 p. Jan. 1951. 100 Ok4M

DAHMS, R. G., and FENTON, F. A. Recognition and control of greenbugs [*Toxoptera graminum*] and other early-appearing pests of wheat. Okla. Agr. Expt. Sta. Mimeog. C. M-209,3 p. Jan.1951. 100 Ok4M

BROOKS, J. S., and PASS, H. Performance tests of corn varieties and hybrids, 1950. Okla. Agr. Expt. Sta. Misc. P. MP-18,40 p. Dec.1950. 100 Ok4

OKLAHOMA current farm economics 23:165-191. Dec.1950. 100 Ok4

Oregon Agricultural Experiment Station, Corvallis

POWERS, W. L., and KING, A. S. Drainage practices for Oregon. Ore. Agr. Expt. Sta. B. 492,35 p. Nov.1950. 100 Or3

OLIVER, A. W. Irrigated Ladino pasture for hogs. Ore. Agr. Expt. Sta. C. Inform. 490,5 p. Jan. 1951. 100 Or3C

Texas Agricultural Experiment Station, College Station

ROGERS, J. S. Fertility relationships in maize-teosinte hybrids. Tex. Agr. Expt. Sta. B. 730,18 p. Ref. Nov.1950. 100 T31S

HAMILTON, R. D., WHITFIELD, C. J., and REA, H. E. Soil treatments for field bindweed [*Convolvulus arvensis*] eradication in Northwest Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1304,4 p. Dec.18,1950. 100 T31P

PAULSON, W. E. Views of ginners regarding some effects of mechanical harvesting of cotton on the ginning business. Tex. Agr. Expt. Sta. Prog. Rpt. 1308, 5 p. Dec.26,1950. 100 T31P

RIEWE, M. E., and TURNER, W. F. Performance of legumes at the Angleton Station, 1949-50. Tex. Agr. Expt. Sta. Prog. Rpt. 1309,2 p. Jan.12,1951. 100 T31P

HOLT, E. C., and others. Cool season grasses at College Station, Denton and Iowa Park, 1948-50. Tex. Agr. Expt. Sta. Prog. Rpt. 1310,5 p. Jan.12,1951. 100 T31P

D. I. Dudley, L. E. Brooks and R. C. Potts, joint authors.

MCARTHUR, W. C., BONNEN, C. A., and MAGEE, A. C. Production practices for sugar beets on the High Plains of Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1311,6 p. Jan.12,1951. 100 T31P

MILLER, H. F., and GAINES, J. C. Size of spray nozzle in relation to cotton insect control. Tex. Agr. Expt. Sta. Prog. Rpt. 1312,1 p. Jan.18,1951. 100 T31P

Utah Agricultural Experiment Station, Logan

COOK, C. W., and HARRIS, L. E. The nutritive content of the grazing sheep's diet on summer and winter ranges of Utah. Utah. Agr. Expt. Sta. B. 342,66 p. Ref. Nov.1950. 100 Ut1

UTAH. AGRICULTURAL EXPERIMENT STATION. Biennial report, 1948-50. Utah. Agr. Expt. Sta. B. 343,62 p. Dec.1950. 100 Ut1

COOK, C. W., and HARRIS, L. E. The nutritive value of range forage as affected by vegetation type, site, and stage of maturity. Utah. Agr. Expt. Sta. B. 344, 45 p. Ref. Dec.1950. 100 Ut1

TINGEY, D. C., and TIMMONS, F. L. Weeds; methods for their control and eradication. Utah. Agr. Expt. Sta. C. 127,47 p. 1950? 100 Ut1

Vermont Agricultural Experiment Station, Burlington

TREMBLAY, R. H. Poultry on Vermont farms. Vt. Agr. Expt. Sta. B. 560,24 p. Nov.1950. 100 V59



NEWLANDER, J. A. , JONES, C. H., and  
FOOTE, M. W. Barn-cured and field-cured hays as  
sources of vitamin D and carotene (vitamin A) for dairy  
cattle from birth to first freshening. Vt. Agr. Expt. Sta.  
B. 561,30 p. Ref. Dec.1950. 100 V59

West Virginia Agricultural Experiment Station, Morgan-  
town

VEATCH, C. Forage crop trials in West Vir-  
ginia. W. Va. Agr. Expt. Sta. B. 343,19 p. Nov.1950,  
100 W52

Wisconsin Agricultural Experiment Station, Madison

NORTH CENTRAL LIVESTOCK MARKETING  
RESEARCH COMMITTEE. Frozen food lockers & home  
freezers in meat distribution. Wis. Agr. Expt. Sta. B.  
490,63 p. Sept.1950. 100 W75

WISCONSIN. AGRICULTURAL EXPERIMENT  
STATION. What's new in farm science; sixty-sixth annu-  
al report, 1948/49. I. Wis. Agr. Expt. Sta. B. 491,88 p.  
Sept.1950. 100 W75



### STATE AGRICULTURAL EXTENSION SERVICE PUBLICATIONS

Includes State Agricultural Extension Service publications received in the library during the preceding month.

Publications issued by the State Agricultural Extension Services are not available from the U. S. Department of Agriculture but are often available from the publishing extension service.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

#### Arizona University, College of Agriculture, Agricultural Extension Service, Tucson

- STEWART, J. M. Homemakers' club handbook. Ariz. Agr. Col. Ext. C. 164,15 p. Sept.1950. 275.29 Ar42
- CHURCH, H. L. Making your first dress; 2nd year 4-H clothing. Ariz. Agr. Col. Ext. C. 166,27 p. Oct.1950. 275.29 Ar42
- PISTOR, W. J. Milk fever. Ariz. Agr. Col. Ext. C. 167,2 p. Nov.1950. 275.29 Ar42
- PISTOR, W. J. Johnson-grass [Sorghum halepense] poisoning. Ariz. Agr. Col. Ext. C. 168,2 p. Nov.1950. 275.29 Ar42
- PISTOR, W. J. Cowpox. Ariz. Agr. Col. Ext. C. 169,2 p. Nov.1950. 275.29 Ar42
- PISTOR, W. J. Impaction of the rumen. Ariz. Agr. Col. Ext. C. 170,2 p. Nov.1950. 275.29 Ar42
- PISTOR, W. J. Retained placentae. Ariz. Agr. Col. Ext. C. 171,1 p. Nov.1950. 275.29 Ar42
- PISTOR, W. J. Warts on cattle. Ariz. Agr. Col. Ext. C. 172,2 p. Nov.1950. 275.29 Ar42
- PISTOR, W. J. Ringworm on livestock. Ariz. Agr. Col. Ext. C. 173,2 p. Nov.1950. 275.29 Ar42
- PISTOR, W. J. Calf losses. Ariz. Agr. Col. Ext. C. 174,2 p. Nov.1950. 275.29 Ar42
- PISTOR, W. J. Foot rot in cattle. Ariz. Agr. Col. Ext. C. 175,1 p. Nov.1950. 275.29 Ar42
- PISTOR, W. J. Mastitis (Garget). Ariz. Agr. Col. Ext. C. 176,6 p. Nov.1950. 275.29 Ar42
- PISTOR, W. J. Lump jaw in cattle (Actinomy-cosis). Ariz. Agr. Col. Ext. C. 177,6 p. Nov.1950. 275.29 Ar42

#### California University, College of Agriculture, Agricultural Extension Service, Berkeley

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. The cost of applying sprays and dusts to pear orchards in Lake and Mendocino Counties, by A. Shultis, N. W. Stice, and F. H. Taylor. Berkeley, 1950. 5 p. 275.2 C12Css

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1949 poultry management study, San Bernardino County, by B. B. Burlingame and J. Hertel. Berkeley? 1950? 9 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Solano County Bartlett pear management study, crop year 1950, compiled by B. B. Burlingame. Berkeley? 1950? 11 p. 275.29 C12En

#### Idaho University, College of Agriculture, Extension Service, Moscow

KNIGHT, W. H., and FITZGERALD, O. A. Silver anniversary in Idaho farm electrification. Idaho. Agr. Col. Ext. Farm Electrification. L. 11,4 p. July 1950. 275.29 Id13Fa

#### Illinois University, College of Agriculture, Extension Service, Urbana

CARTER, D. G. CURTIS, J. O., and HINCH-CLIFF, K. H. Plans for farm buildings and livestock equipment. Ill. Agr. Col. Ext. C. 666,20 p. Aug.1950. 275.29 IL62C

VAN DOREN, C. A., and GARD, L. E. Protecting your soil. Ill. Agr. Col. Ext. C. 667,23 p. Sept. 1950. 275.29 IL62C

#### Indiana - Purdue University, Agricultural Extension Service, Lafayette

BURKHOLDER, C. L., SHARVELLE, E. G., and LEHKER, G. E. Indiana spray and dust schedules for commercial fruit plantings. Purdue U. Agr. Ext. B. 310, rev., 47 p. 1951. 275.29 In2E

#### Kansas State College of Agriculture and Applied Science, Extension Service, Manhattan

KANSAS. STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE. EXTENSION SERV. Happier families. Kans. State Col. Agr. Ext. C. 222,22 p. Aug.1950. 275.29 K13Ex

#### Oklahoma Agricultural and Mechanical College, Extension Division, Stillwater

OKLAHOMA. AGRICULTURAL AND MECHANICAL COLLEGE. EXTENSION DIV. Irrigation in Oklahoma. Okla. Agr. Col. Ext. C. 249,16 p. Ref. n.d. 275.29 Ok41C

FUNK, E. Refinishing furniture. Okla. Agr. Col. Ext. C. 265,16 p. n.d. 275.29 Ok41C

TURNER, W. L., and others. Farmer's 1950 income tax. Okla. Agr. Col. Ext. C. 421-A,24 p. Nov. 1950. 275.29 Ok41C

E. D. Chastain, Jr., L. M. Schruben and E. P. Callahan, joint authors.

WOODWARD, R. O. Taking soil samples. Okla. Agr. Col. Ext. C. 513,4 p. n.d. 275.29 Ok41C

WHITEHEAD, E. L. 4-H pecan project. Okla. Agr. Col. Ext. C. 543,10 p. n.d. 275.29 Ok41C

GARRETT, J. C. Planting and care of lawns. Okla. Agr. Col. Ext. C. 545,8 p. n.d. 275.29 Ok41C

ARMSTRONG, O., and WALKER, M. Better buying, for 4-H club members. Okla. Agr. Col. Ext. C. 547,8 p. n.d. 275.29 Ok41C

OKLAHOMA. AGRICULTURAL AND MECHANICAL COLLEGE. EXTENSION DIV. Graded eggs, an extension program. Okla. Agr. Col. Ext. C. 549,4 p. n.d. 275.29 Ok41C

#### Pennsylvania State College, Agricultural Extension Service, State College

WARREN, S., JOHNSON, M., and RISSINGER, M. Freezing foods at home. Pa. State Col. Agr. Ext. C. 369,27 p. Oct.1950. 275.29 P38C

BLACK, S. Refinish your furniture. Pa. State Col. Agr. Ext. C. 372,17 p. Nov.1950. 275.29 P38C

MCCURDY, J. A., and OLVER, E. F. Adequate farm wiring. Pa. State Col. Agr. Ext. C. 373,25 p. Nov. 1950. 275.29 P38C

PENNSYLVANIA. STATE COLLEGE. AGRICULTURAL EXTENSION SERV. How well do you eat? Pa. State Col. Agr. Ext. L. 136,6 p.-folder. Oct.1950. 275.29 P38L

#### South Dakota State College of Agriculture, Extension Service, Brookings

CAVE, R. A., and BARTLE, E. Alfalfa silage. S. Dak. State Col. Agr. Ext. L. 130,6 p.-folder. June 1950. 275.29 So85E



CAVE, R. A. Artificial breeding. S. Dak. State Col. Agr. Ext. L. 131,6 p.-folder. June 1950. 275.29 So85E

SOUTH DAKOTA. STATE COLLEGE OF AGRICULTURE. EXTENSION SERV. Handling, storing and feeding soft corn. S. Dak. State Col. Agr. Ext. L. 132,2 p. Oct.1950. 275.29 So85E

Texas Agricultural and Mechanical College, Agricultural Extension Service, College Station

MOORE, W. J., and WILLIAMS, J. C. Capons. Tex. Agr. Col. Ext. C. 285,7 p. Aug.1950. 275.29 T312C

Washington State College, Extension Service, Pullman

SNYDER, J. C., and BARTRAM, R. D. Grafting fruit trees. Wash. State Col. Ext. B. 442,34 p. Dec. 1950. 275.29 W27P

Wisconsin University, College of Agriculture, Agricultural Extension Service, Madison

CLODIUS, R. L. Controlling inflation. Wis. Agr. Col. Ext. Econ. Inform. Wis. Farmers. Spec. C. 21(10/11),4 p. Oct./Nov.1950. 275.29 W75Ec

#### FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Includes publications received in the library during the preceding month.

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. 1949 annual report from Norway to the Food and Agriculture Organization of the United Nations. Oslo,1949. 59 p. 389.9 F7353No

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Timber statistics, including markets reports for January-December 1948 and 1949; quarterly bulletin, 2(4),102 p. Apr.1950. 99.9 F73T







Item	Item	Item	Item	Item
Abadie F 28793	Alberta Horti- 27222	Amaral S F do 3052	Andrews A I 26146	Aronoff S 2690
Abadie F 32273	cultural Ad- 27222	Amblor G B 29624	Andrews F N 28888	Aronovsky S I 32339
Abbott E V 26289	visory Com- 27222	Amelinckx F 27391	Andrihet P 27076	Arrillaga N G 27779
Abdullaev S G 26290	mittee 27222	American Asso- 33607	Anerud K 30203	Arroteia S 29102
Abel H 32511	Alberta Wheat 32336	ciation of 27392	Angel C R 26816	Arruda B 27621
Aberg B 26710	Pool 27148	Cereal 27392	Angell G N 30204	Arruti F 29073
Abetz K 28370	Albertson F W 30790	Chemists 27392	Angell G N 31289	Artaud 33010
Abhyankar S G 26493	Albini M D 29070	American Del- 27392	Angell G N 33655	Arthur I W 28160
Abjornsson B 29364	Albrecht R 27935	phinlum So- 27392	Angelo R 27346	Arthur J C Jr 28722
Abramov M D 29528	Albrecht W A 29787	clety 27392	Angely J 26000	Arthur J C Jr 32565
Abrego L 26214	Alcalde J 33681	American Dry 31803	Angler H 32263	Arthur P 27394
Abshier G S 31958	Alcaraz 32871	Milk Institute 27223	Anhyohous R 31106	Artom A 31751
Abul'khanov 29987	Luna M 27345	American 27223	Anikeeva A I 26652	Arton A 33564
F Kh 30570	Alcaraz Mira E 27936	Garden Guild 29041	Anjos V T 32783	Asahina S 31063
Aburto H 30104	Aldebert P 27937	Guernsey Cattle 32537	R dos 32125	Asakura K 27622
Ackerknecht E 32003	Aldrovandi A 27937	Club 30485	Anjou K 32267	Asana R D 26719
Ackerman F E 33330	Aleksandrov N P 26501	American Meat 30485	Anjou K 29476	Asdell S A 29280
Ackerman J 31508	Aleksandrova 26058	Institute 30485	Annunziata M 30767	Asghar A G 27825
Adair W 27203	V D 28305	American Mu- 30485	Anscha M 28956	Ash J 30912
Adam J 32004	Aleshin A 26073	seum of 27223	Anselmi G 29740	Ashberry A 27395
Adam J P 30704	Alexander E J 26501	Natural 30653	Antalovská Z 29740	Ashton L S 27623
Adami G 30328	Alexander L J 27938	History 30653	Antalovský A 30470	Ashton T R 31834
Adams A F R 26711	T M W 29549	American Mu- 30984	Anton E W 30526	Askelöf E 30206
Adams P de O 31509	Alfons H 29787	seum of 30984	Antoine M 30526	Aslanfan M M 29988
Adamson D M 31045	Algaba R 27245	Natural 30984	Antonaccio P A 28371	Asociación 33575
Adamson D M 31046	Algeria In- 27245	History 30984	Antonelli P 30334	Asociación de 29746
Adamson D M 31047	spection 27245	American Mu- 30996	Antoniani C 32162	Cafetalaria de 29747
Adash I 31396	Générale et 27360	seum of 30996	Antoniani G 28159	Asociación de 32007
Addison H 29170	Direction de 27360	History 30996	Antropov T F 33667	Agricultores 29988
Adler H E 29219	l'Agriculture 27360	American Mu- 30997	Apal'kov I E 29221	de la Región 30206
Adler H E 29737	et Direction de 27360	seum of 30997	Apice M d' 28957	Lagunera del 29988
Adler H E 30105	l'Agriculture 27360	History 30997	Apice V B d' 31531	Estado de 33575
Adriance G W 32124	Algeus S 26712	American Mu- 30997	App F 33603	Durango 32340
Afanas'ev V A 31288	Algeus S 26713	seum of 30997	Applebaum S 31107	Association Na- 32340
Agarwal D C 27188	Ali C A 33423	History 30997	Appling H 33668	tionale de la 32340
Agarwal R R 27815	Alikaev V A 29410	Amerline M A 32161	Aragão H de B 33668	Meunerie 32340
Agarwal R R 27933	Allan J E 31833	Amerongen G J 32755	Aragón Leiva P 29980	Française 32340
Agarwala S C 26781	Allberry E C 27823	Ames N 31096	Arakelán M A 29956	Association of 32753
Agati G 27619	Allcroft R 28954	Ames S R 33551	Arañez J B 29490	Official Seed 32753
Agento Cecilia C 29738	Allegret P 31054	Ames R W 26502	Arango R 33227	Analysts 27910
Agenjo Cecilia 32639	Allemeersch 32872	Ames R W 28212	Arbellot M 31535	Associazione 27910
C 30911	J F van 33143	Amich Gail J 29739	Arce A 33383	Nazionale delle 27910
Agenjo R 30911	Allen D 26904	Amos A J 32338	Archambault J 31877	Boniche delle 27910
Aggarwal J S 32568	Allen E K 26904	Amschler J W 29052	Arches M d' 29834	Irrigazioni e 27910
Aggarwal J S 32596	Allen F W 32227	Amschler J W 29171	Archibald J 29442	del Migliora- 27910
Agliani J 27388	Allen L C 28158	Amsel R G 31062	Arenas I 28895	menti Fondiari 27910
Agnew E M 27389	Allen M D 32734	Anatovskij A 31876	Arends G 27395	Astorga C M 26297
Agrell I 30664	Allen O N 26904	Anceschi L 32467	Arenz B 26717	Aszling R A 31804
Agulla G R 27620	Allen R C 27390	Andaman Is- 28306	Areses Vidal R 26001	Athawale C R 28161
Agullar J d' 30524	Allen R M 26291	land Forest 28306	Argentina 26962	Athawale C R 32628
Aguirre R 27934	Allen R R 29172	Dept 28306	Argentina 26962	Atkins F C 27624
Aharonovitch J 29365	Allen S W 28277	Anders- 29686	Dirección 26962	Atkins J G Jr 26203
Ahlfeld H 32780	Allen T W 29612	Schwendimann 29686	General de 26962	Atkins J G Jr 26374
Ahlfeld H 32781	Allison F E 26905	W 29686	Fomento Agri- 26962	Atkins P 27396
Ahlgren G H 27073	Allison F E 27868	Andersen A L 26340	cola 26962	Atkinson C C 28591
Ahlgren G H 27092	Allouard P 28341	Andersen A M 26716	Aries R S 28808	Atkinson R L 29687
Ahmad C S 33422	Allred B W 27074	Andersen J C 26940	Aries R S 28850	Atwood S S 26653
Ahmad H 31747	Allsopp A H 33512	Anderson A B 28807	Aries R S 28851	Aubert P 27246
Ahmad N 33685	Allue Morer A 31252	Anderson C B 31959	Aries R S 31576	Aubry-Dusoulier 29501
Ahuja M L 29618	Allyn M S 32958	Anderson C N 30331	Aries R S 32781	J 29501
Aikkinen I 31340	Almack R B 33331	Anderson E A 26604	Aries R S 32785	Auclair J L 30792
Airapetian A A 28920	Almandoz P 32782	Anderson E G 26705	Aries R S 32833	Audidier L 27940
Aiyer A K Y N 26939	Almeida J R de 28217	Anderson E J 26292	Arima S 30205	Audidier L 31510
Akers J 26072	Almeida J R de 32265	Anderson E J 30332	Ark P A 26202	Auerbach S I 30471
Akiba K 29292	Almeida J R de 31802	Anderson E O 31797	Ark P A 26294	Auger A 33342
Akins V 28853	Almeida O de 33424	Anderson G 31742	Ark P A 26295	Augustin R 28460
Akira H 29286	Almeida O de 33424	Anderson J A 32005	Ark P A 26296	Aull G H 28910
Akianov 30433	Almestrand A 26715	Anderson L D 26527	Ark P A 26480	Ault C N 30472
Alabama State 28953	Alonso Molina R 30330	Anderson R 29053	Ark P A 26481	Austin R C 32973
Veterinarian 28953	Alp H H 32640	Anderson R H 27939	Arle H F 27699	Australian and 29423
Alba J de 29184	Altemeyer A J 32948	Anderson S L 32006	Armando M 31607	New Zealand 29423
Albaugh R 29069	Altnes P D 29211	Anderson W A 33321	Armistead W W 29443	Greyhound 29423
Albenbauer J 30329	Altrogge L 32337	Andrade E de C 28278	Armitage H M 30791	Association 29423
Al'benskiy A V 28434	Altschul A M 32599	Andrade H 28955	Armstrong D G 26906	Avidov Z 30793
	Alvarez Mozo 28065	Andreas B 29054	Armstrong F 32453	Avidov Z 30859
	F 32959	Andreassen A A 32415	Armstrong F K 31536	Axelsson J 33228
		Andreev G T 27075	Armstrong O 33642	Axling H L 28162
		Andres J 29220	Arnold D I 26718	Aycock R 26503
			Arnotto L D 29055	Äyräpää T 26908
			Arnould C 29072	



Item	Item	Item	Item	Item	Item
Baader G 28435	Ballatore G P 33577	Barton G T 32988	Becker D 32787	Benolt J 29746	
Baas J 30794	Ballentine L Y 33013	Barton R A 29990	Becker G 30208	Benolt J 29747	
Babb G F 27397	Balls K 31424	Barton S H 27911	Beckers P 32009	Benolt P L G 30860	
Babbar I J 26909	Balmaceda C 32786	Bartram E B 26147	Beckler W Jr 28755	Benolt P L G 30861	
Babcock C J 31855	Bal'mont V A 29989	Bartram R D 27285	Beckman C H 26302	Benolt P L G 30862	
Babcock E R 26605	Baltazard M 30473	Bartrum D 27401	Beckman H J 30135	Benolt P L G 30863	
Babcock M C 29741	Baltzer B 26785	Barzen R M 26077	Beckwith G H 28897	Benolt P L G 30864	
Babcock W E 29765	Banco Agrícola y Pecuario 33576	Basilewsky P 30527	Bede J A 28742	Bensaude M 26206	
Baccialone J 27398	Banco Hipotecario de El Salvador 33576	Basilewsky P 30528	Bedoukian P Z 32243	Benson A A 26842	
Bachman K L 33144	Bandini M 32911	Basilewsky P 30529	Beebe W 30915	Benz R G 32269	
Bachmann F 30795	Bandlow G 26655	Basilewsky P 30530	Beecher R L 26744	Bequaert J 30666	
Bachmann M 27297	Banerjee B N 26931	Baskin A D 26299	Beeler M N 31142	Beran F 30209	
Bachrach H L 28958	Banerji I 26607	Bassham J A 26342	Beer 26004	Bercks R 26504	
Backeberg C 26074	Banerji K C 27189	Basteleus R 27347	Beer A 29836	Berendes P 33146	
Backhouse T C 30751	Bang F B 29742	Basu S N 32008	Beer F 28307	Berg 26207	
Badenhorst D F 30004	Bannister B 26002	Batchelor L D 27298	Beers W F J van 27749	Berg E 29577	
Badenoch A G 26720	Baque Z 27349	Bateman A J 30207	Beers Z H 27944	Berg L R 29690	
Baetsle R 31537	Baque Z 33014	Bates D W 31253	Beeson K E 32764	Berg R E 32789	
Baetsle R 32341	Baquilast R 33476	Bateson R G 31290	Beeson D M 26555	Bergara R 31375	
Baeyens J 27941	Baras A 30335	Batjer L P 27247	Beeson K C 27893	Berge O I 31201	
Bagge H 2717	Baras A 30336	Batra A L 30847	Beeson K E 26941	Berger K C 27944	
Bagge H 27749	Baras A 30337	Battaglini A 28928	Beeson W M 30099	Berger W C 31962	
Baggiolini M 30818	Baras A 30338	Battistelli E 31238	Begg H 28960	Berger W C 31963	
Bäggli W 33011	Barba L della 31608	Battle W R 27133	Behlmer H L 31981	Berglund D T 31426	
Bahmanyar M 30473	Barber E M 33515	Battles O V 29075	Behne W 27313	Bergh M 29748	
Bahr A 32242	Barber L A 32566	Baudoin N 32621	Beier A 29173	Bergh M 30040	
Baier W 29222	Barbotin F 30728	Bauer A H 26300	Beier M 30474	Bergmann 28279	
Baier W E 31496	Barcelo D 32512	Bauehaus A 31181	Beier M 31024	Beri S P 29807	
Bailey J W 28959	Barceló J L 31397	Baum M D 32717	Bejach S 29837	Beristain B 31609	
Bailey J W 29223	Barceló J L 33343	Bauma G J A 31281	Pejambes M 31741	Berkeley G H 26505	
Bailey J W 29224	Barcelo Garcia de Paredes A 29835	Bauman R H 33019	Bekkedahl N 32731	Berland L 30151	
Bailey J W 29225	Bardt R 32188	Bauman R H 33235	Beldame R 30339	Berliner E 32348	
Bailey J W 30106	Bareiss G 31191	Baumann J 33552	Belding R D 30110	Berman R W 28166	
Bailey N 28623	Barger J W 32926	Baumgartner W 32343	Bell R E 32043	Bernard A 28122	
Bailey N 28712	Barker C A V 29074	Baumgartner W 32344	Belkin J N 30752	Bernard A 32790	
Bailey R 28066	Barker E R Jr 28753	Bauny P 29228	Bell E J 33478	Bernard P 26942	
Bain A F 29534	Barker W E 29689	Baush E R 32670	Bell F H 26303	Bernard P 27078	
Bain D C 26204	Barksdale W E 33015	Bavaria Statistisches Landesamt 31592	Bell F H 26304	Bernard P 32327	
Baird E 29688	Barkworth H 31780	Bavaria Statistisches Landesamt 32982	Bell G D H 26656	Bernard P 33310	
Bajpai R N 30913	Barlet J 31065	Bavaria Statistisches Landesamt 32982	Bell J A 29290	Bernardi V M 33345	
Baker D 29287	Barley H D 32643	Bavaria Statistisches Landesamt 32982	Bell J Q 29444	Bernatzky A 33332	
Baker F S 28436	Barneby R C 26075	Bavendamm W 28662	Bell L 26400	Berneri O G 31693	
Baker G A 29535	Barneby R C 26076	Bavli H 32345	Bellair G 27659	Bernfus E 31540	
Baker H G 26654	Barnes E 32644	Baxa J 33477	Bellingrath W D 27404	Bernstein F 32742	
Baker H R 33012	Barnes H F 30665	Baxter E S 31155	Belsey S 28809	Berrill N J 30341	
Baker K F 26298	Barnes I W 32254	Bayer G 27912	Belt J B M van den 30340	Berry L H 32645	
Baker M 32547	Barnes T W 27844	Bayles B B 26301	Beltran 29230	Berry N O 30798	
Baker R L 32641	Barnes W C 27625	Baylor J W 28164	Bemis K P 32190	Berry R 33322	
Baker R L 32642	Barnett A J G 28896	Bayou Y 29229	Bemis K P 32191	Berthault P 33020	
Baker V H 31097	Barnett A J G 31960	Beachell H M 26964	Ben-Harel S 29745	Berthault P 33021	
Baker V H 31227	Barnett H L 26813	Beal R E 32567	Bender C B 29190	Berthold A 31837	
Baker V H 31228	Barnicoat C R 31835	Beale J H 27402	Bender F 28822	Bertiche A 33427	
Baker V H 32882	Barnstedt 31961	Beane L 26078	Bender R 33344	Berti H 28874	
Baker V W 28163	Barnum G F 31873	Beard D F 32759	Bendowski O 29076	Bertl H 30076	
Bakker W 30075	Barnum J K 32739	Beard D F 32761	Bene J 28713	Bertossi F 26725	
Bal A 31878	Baron C 32268	Beard F J 32524	Benesch R 31425	Bertram D S 31066	
Balachowsky A 30796	Baron M 31842	Beard W A 29743	Benesch R 31539	Bertrand A 27406	
Balachowsky A 30797	Baro Zorrilla F 28437	Bearse G E 29690	Benesch W 29538	Bertrand H 30535	
Balchin W G V 26721	Barr C A 27400	Beatty A V 26766	Benford H 33019	Bertrand H 30667	
Baldacci E 26963	Barr G W 32189	Beau M 31685	Bengtsson N G 29231	Bertsch K 26005	
Baldauskis F A 26920	Barr G W 33016	Beau M 31743	Beni F de 26965	Bertsch M 27079	
Baldini E 27312	Barr R H 31538	Beaudette F R 29744	Benick L 29231	Berwick E J H 27751	
Baldoni R 27942	Barradas L 33425	Beaumont R T 33655	Benid B H 32788	Berwick L 29210	
Baldovinos de la Peña G 26205	Barrau J 27908	Bechtel W G 32346	Beniloch M 26305	Besançon R 29550	
Baldwin A R 32342	Barrau J 32949	Bechyne J 30531	Bennett B H 32000	Besemer A F H 26306	
Balevski A 30914	Barreda J A 28754	Bechyne J 30532	Bennett H 32750	Bessenbeck A 29840	
Balhorn P S 28255	Barrenbrügge 31108	Bechyne J 30533	Bennett H 32127	Besseling A J 30475	
Balks R 27943	Barrington M 26003	Beck F X 26723	Bennett H 32874	Bethel J S 28714	
Balks R 33670	Barros 3342	Beck G 31836	Bennett H G 32912	Bethel J S 28715	
Ball E 26606	Beaucheff J 33017	Beck G H 29366	Bennett H W 26724	Bethke R M 28898	
Ball M 32126	Barrows G E 31880	Beck J R 28165	Bennett M 27405	Betrem J G 30799	
Ballantyne E E 29531	Bartle E 28903	Beck P 30150	Bennett R R 27211	Betrem J G 30865	
Ballantyne J H 29226	Bartlett D E 29227	Beck V S 27077	Bennett R R 31423	Bettenay R A 29177	
Ballard M Jr 33145	Bartley B G 26722	Beck W F 27403	Bennion E 32347	Bettini T M 32010	
Ballard W W 31064	Barton B R 28209	Becker C S 27913	Benolt C E 29838	Beuret H 30916	
		Becker D 29991	Benolt C E 29839	Beveridge E 33643	
				Bevin F G 31964	



Item	Item	Item	Item	Item	Item	Item
Bezdek J 31541	Blaxter K L 28954	Bookhout B 31110	Bradfield R 27914	Brion A 29579		
Bhagat P G 33346	Blaxter K L 29233	Boone D M 26659	Bradfield R 28225	Briones A Q 27207		
Bhargava M P 28756	Blewett W V 33024	Boone D M 26686	Bradford D 31223	Briones M H 30669		
Bhargava R P 28756	Blicke L de 29749	Boonstra 32733	Bradley G H 30211	Briquet Jdnior R 28876		
Bhasin M M 32568	Blin H 27627	B B S T 27623	Bradley J A 27413	Briquet Jdnior R 29085		
Bhatnager S S 33513	Blin H 30022	Booth C E 28743	Bradley J C 30868			
Bhattacharyya A P 32008	Blin H 30032	Boothroyd C W 26311	Bradley O C 29753			
Bhide V P 26191	Bliss M E 27167	Bouquen 28961	Brahe-Pedersen O 33231	Brisson G J 29174		
Bhide V P 26199	Bliss M E 31383	Borg J 27082	Braidot S 31690	British Sulphate of Ammonia Federation 29242		
Bhide V P 26419	Bliss M E 32779	Borgeson C 26944	Branas J 31611	Britt C S 28169		
Bhide V P 26482	Bliznfuk P 30342	Borghi M 32793	Brand D D 33333	Brncic J D 30670		
Bhide V P 26483	Block R J 31745	Borghoff F W 33347	Brandao A A 31884	Broadbent L 30802		
Bhola K D 27825	Blokmans E F 32893	Borgmann K 32160	Brandao Filho J S 27041	Broadhead E 31068		
Bfalyi A M 28405	Blondel F 31390	Borgmeier T 30867	Brandly C A 29754	Broadley Sir H 31613		
Blanchedi A 27626	Blosser T H 29234	Borgstrom G 32128	Brandt N 29975	Brochart M 29550		
Blavati F 29077	Blount W P 30136	Borgstrom G 32894	Brann H V 29627	Brochier H 33481		
Blickoff E M 31542	Blow W L 29638	Bork J H 28372	Brannan C F 31398	Brock A A 31399		
Blickoff E M 31965	Bluhm L E 27409	Born W C 29752	Brannan C F 33264	Brock R D 26318		
Biddis J K 29445	Blum J 30343	Borth R T 28685	Brannan C F 33649	Brodine A M 27945		
Biedermann W 31610	Blum W R 33229	Bosak D E 27350	Brantley C O 32761	Brodine A M 28235		
Biely J 29691	Blumer S 28210	Bosazza V L 31337	Brasnett N V 28373	Brodine M 27846		
Bieri A 29981	Blümke 26309	Bosch S 31966	Braude R 30086	Bromfield L 27894		
Bierman R W 32910	Blümke 26943	Boschma H 33610	Braun A J 26314	Bromley W S 28757		
Biermann H P 28083	Blümke 27081	Bose R G 32008	Braun A J 26315	Bröndegaard V J 27702		
Bieseke J J 26726	Blunck 31067	Bösenberg K 32351	Braun H 26316	Bronislawski S 29239		
Billington T 33147	Blunck H 30917	Bostel F 32129	Braunitzer G 26546	Brooks B 31376		
Binaghi G 30536	Bluvshstein I N 26723	Bostian C H 29638	Brauns A 30545	Brooks J S 26967		
Binder 27248	Boan J 30344	Bosticco A 29231	Brauns A 30668	Brooks L E 27112		
Binder 29367	Boardman A H 31109	Boszjan G M 29578	Brazier A F 32012	Brooks R M 27251		
Bink H 31686	Boatman J L 28167	Botha P J 26729	Brazil Serv de Estatistica Economica e Financeira 33480	Brooks R M 27315		
Binney T H 31687	Boback A V 30538	Böttger S 32794		Brouwer E 31968		
Bins F 32270	Bobylev G W 28461	Bottling H L 27629		Brown A H 31545		
Binstadt 27349	Böcher T W 26608	Bottini E 27845		Brown C H 32013		
Birch T T C 28438	Bockmann H 26310	Bottini R N 32981		Brown E 32572		
Birchfield J 33609	Bocquet M 32732	Bottom J C 33026	Brednev A P 26966	Brown E 32573		
Birchfield W 26307	Boczkowska M 30539	Boubals D 26506	Breider H 26733	Brown E 32574		
Bird F T 30866	Boczkowska M 30540	Bouche P 30018	Breimyer H F 32469	Brown E M 31614		
Bird H R 29710	Boe N 29532	Bouchet A 29236	Breimyer K 31967	Brown F 33148		
Bird H R 29711	Boekholt K 33230	Boudol A 29842	Breistroffer M 26579	Brown F M 30923		
Bird J 31688	Bogatyrev K P 27816	Bouillenne-Bohm 27410	Brekke A 33027	Brown F M 30924		
Bird L H 32349	Böhm H 30541	Walrand M 27701	Brekke A 33265	Brown F M 30925		
Birkeland J M 29975	Böhm H 26208		Brekke J 32277	Brown J B 32603		
Biserte G 32350	Böhm C 27190	Boulay H 27224	Brekke J E 32571	Brown J C 31291		
Biset L 33479	Bohren B B 29750	Bould C 26731	Bremer H E 31885	Brown J C 32646		
Bishop C J 26727	Bohstedt G 28899	Bouldin R 32192	Bremond E 31612	Brown J R 26080		
Bishop C P 29232	Boige J 31588	Boulmier A 31111	Brendstrup S 31341	Brown J R 27415		
Bishop D W 29079	Boisgrollier G de 29992	Boulton E H B 26312	Brennan J M 30753	Brown L H 33225		
Bishop J Jr 33022	Boldingh J 32570	Bouquet A 27753	Brenton P 31544	Brown N C 28686		
Bisset D R 28084	Bollin D W 29692	Bourbonnais G 31893	Bretaud M 32513	Brown O B 26964		
Bissland H R 27080	Bollerup J 32795	Bourdet A 31543	Bretherton R F 30922	Brown R G 29607		
Biswas K 27752	Böllhoff F 29551	Bourdet A 32352	Bretton J F 32998	Brown V R 29580		
Bitterlich W 28480	Böllhoff F 29551	Bourdon J 30543	Bretschneider L H 26006	Browne F L 28642		
Bitters W P 27298	Bolt C D 32110	Bourgogne J 30918	Bretz T W 26317	Bruce D 28463		
Bjurulf G 26059	Bomfim S 28539	Bouruet Auber-tot J 28280	Breviglieri N 27250	Bruce H M 29619		
Black G 31511	Bonadonna T 29073	Bouvier G 29237	Breviglieri N 27314	Brückner G 32353		
Black R 30210	Bonadonna T 29080	Bouvier G 29238	Brewbaker J L 26653	Brueckner A L 29809		
Black S 33641	Bonadonna T 29081	Bovey P 30919	Briat C 29084	Brueckner A L 29810		
Black W H 29091	Bonadonna T 29082	Bovingdon H H S 30544	Brickwood H 31182	Brueckner A L 29811		
Blackburn B 27407	Bonadonna T 29082	Bowden W E 29083	Brickwood H 31225	Brues C T 30869		
Blackley S R 31512	Bonaduce A 29751	Bowen C C 26660	Bridgmon G H 26507	Bruet E 30153		
Blackley S R 32468	Bond J 28086	Bowen H 33297	Bridgmon G H 26508	Brüggemann H 29175		
Blackman G E 27700	Bond W R 28663	Bowers R D 28087	Brieghel-Muller A 32795	Bruin A de 32271		
Blackman G E 32569	Bondarenko P A 28462	Bowers W E 27411	Brierley E 27754	Brumbaugh R 27316		
Blackwelder R E 30537	Bonfils S 33541	Bowes P C 32760	Brierley P 26535	Brunaud M 29240		
Blackwell H L 28085	Bonifacio 30345	Bowman D R 26486	Brierley R G 31449	Brunelli A 27212		
Blackwell H L 29625	Bonnemaison L 30542	Box H E 30920	Brierley W B 26225	Brunini J 31591		
Blackwell H L 29626	Bonnemaison L 30800	Box H E 30921	Briggs E A 27414	Brünner 27083		
Blackwell H L 29841	Bonnen C A 27202	Boyce J S Jr 26313	Bright N F H 30212	Brünner 28900		
Blair C H 27408	Bonner D M 26658	Boyd L L 31290	Brighten C W 31349	Brunner E 27351		
Blake A F 32792	Bonnet D D 31073	Boyd R S 32011	Brigis O I 29993	Brunner K T 29477		
Blake S F 26079	Bonnet J 31882	Boyle L W 26732	Briles W E 29628	Brunnert J 30077		
Blakley R L 30031	Bonnicel R 31497	Braarud T 26170	Briles W E 29629	Brunnert J 30087		
Blanco G 33023	Bonomi P 33025	Bracey S J 27412	Brinck P 30152	Brunnert J 30107		
Blanco J L 26657	Bonsma F N 28875	Brachmann-Nagel E 28607	Brinck P 30546	Brunnert J 30137		
Blaney A J 29446	Bontempo 31871	Bradfield A 31689	Bringmann G 26007	Bryan W W 26968		
Blank L M 26308	Bonus M 27957		Bringmann G 26609	Bryant C B A 31805		
	Boock O J 30801		Brink W 33611	Bryant H E 32130		
				Bryant H E 32193		



	Item		Item		Item		Item		Item
Bryant R	29692	Busnel R G	31055	Campredon J	28810	Carter E G	32017	Centro Nacional	28057
Bryk F	30154	Busuria I A	29994	Camus A	31746	Carter J C	26324	de Agronomia	
Bryk F	30926	Butler E	30214	Canada Board of	32355	Carter R M	28711	Centro Nacional	33430
Bruner S C	30213	Butler E	33151	Grain Commis-		Carter W	29957	de Estudos	
Brynaert J	27042	Butler E E	33671	sioners		Carter W A C	30928	Cooperativos	
Buch P O	27416	Butler K D	26319	Statistics Br		Cartwright C A	26325	Cernowsky W	32950
Buchholz W F	26443	Butler L D	31450	Canada Bur of	32355	Cartwright R	32578	Ceruti A	26611
Buchholz H	29656	Butler L D	29692	Statistics		Carvalho A	27757	Cerutti G	31619
Buck A de	31427	Butovitsch V	30548	Agriculture Div		Carvalho G S T	29244	Cesard	33032
Buck J B	30547	Butt J L	32576	Canada Experi-	27901	Carver W A	27180	Cesareo J	29630
Buck J B	30671	Butterworth W	28747	mental Farms		Casa Pacheco		Ceskoslovenska	33353
Buck J B	30672	Buttlaux R	32796	Canada Grain	32005	Marques de	29844	Akademie	
Buckler J L	32956	Buttress F A	33578	Research		Casa Pacheco		Zemedelska	
Buckley S M	26726	Butts H A	32663	Laboratory		Marques de	29845	Cettl G	27635
Budde	28901	Buvat R	26610	Canada Grain	32356	Casa Pacheco	30054	Cezard H	28034
Budowski P	32575	Byrne D	27191	Research		Marques de		Chacravarti A S	32817
Bueno R C	29798	Byrne R J	31461	Laboratory		Casa Pacheco		Chakrabarti	32018
Buffa E	28088			Canada Market-	31459	Marques de	32357	B K	
Buffa G	26008	Cable C C Jr	32647	ing Serv		Casalini M		Chakravarti	26739
Bugden W A	29755	Cabral I de A R	28353	Economics Div		Marques de		S C	
Buhle	32194	Cabras F	28902	Canadian Here-	29087	Casamajor R	26736	Chalk L	28705
Bührle H	33348	Cabras F	31156	ford Association		Cascio P J	27422	Chalk J W S	29245
Bulatti P G	29368	Cadwallader	27419	Canadian Sheep	29995	Case E O	26970	Chalumeau P	29246
Bule T S	28170	G R		Breeders'		Case F W II	26082	Chalvignac M A	27888
Bullov S V	30033	Caestecker K de	27997	Association		Cashmore W H	31114	Chambard P	28793
Bulning A F H	27417	Caffe P	29241	Candura G S	30803	Cashmore W H	31202	Chambard P	32273
Bujan J	31350	Calan J de	33255	Canet J	29448	Casorso R	29691	Chamberlain	26485
Bulavin V P	28319	Caldemaisous	32796	Canina A G	32960	Cassagne P	32735	D W	
Bull I	31615	Calder M V	28570	Cano J M	28057	Cassamagnaghi	29759	Chamberlin R V	30477
Bullen J J	29581	Cale G H Jr	30347	Cano Pizarro C	32577	A (Hijo)		Chamberlin V D	29789
Buller A H R	26177	Calef R T	30476	Canterbury	28135	Cassamagnaghi		Chambliss C G	31158
Buller L	32538	Caleffa G	33482	Chamber of		F	29694	Champeval A	27915
Bulow F	33334	California Fruit	32196	Commerce		Cásseres E H	27632	Chan F L	30675
Bump G	28535	Growers Ex-		Capistrano S	31113	Castberg C	32272	Chand R	31747
Bunker H J	31616	change		Capra C	31546	Castejon R	28963	Chandler D J C	29424
Bünning E	26734	California State	29242	Capucci C	27317	Castell C P	26148	Chandler D J C	29425
Bunse C	29056	Brucellosis		Capuler B	27225	Castelli T	31618	Chandler D J C	29426
Buonaluto G	27755	Committee		Carayon J	30804	Caster A B	27970	Chandler W H	29439
Burch J W	33149	Calkins R D	33029	Carayon J	30806	Castillo A	31428	Chang C W	33350
Burchenal J H	26725	Callaghan A R	32015	Carayon J	30801	Castillo Rojo	27633	Chang J M	27952
Burdette W J	30673	Callahan E P	32979	Carbon A G	27947	J del		Chansler W S	26083
Burdette W J	30698	Callan E	30870	Carbone F	31838	Castillo Rojo	33319	Chapman C J	27949
Burdin J	31746	Callan E M	30968	Carey C J	30215	J del		Chapman C J	27950
Burgers G J	27352	Callister G J	28243	Carey J W	29254	Castle E	33046	Chapman E F	29847
Burglon N	27418	Callow E H	32500	Carey R G	27420	Castle M E	29370	Chapman G V	28744
Burgos L J A	33023	Calvert O H	30523	Caridroit F	29758	Castro A M F	27758	Chapman H D	27867
Burgoine J H	32760	Calvin M	26842	Carlizza R A	32648	Castro D	26838	Chapman H D	27951
Burke K A	29756	Calzada	27946	Carli E	32167	Catalano G	26009	Chapman H H	28374
Burkett A L	32014	Benza J		Carlin T J	28759	Catalina L	27948	Chapman L T	29760
Burkett W K	33150	Calzecchi-	27756	Carlsen E W	32197	Catlin W	26014	Chapman P W	33033
Burkhardt B S	29481	Onesti A		Carlsen E W	32255	Cattorini P E	33612	Chapman P W	33034
Burkhardt G J	31434	Camain R	30704	Carlson C W	29723	Cauchy L	29471	Chapman R A	26211
Burkhart L	27630	Camara A	33650	Carlsson G	26969	Caulfield J G L	28760	Chapman R A	26343
Burkholder C L	26209	Camargo F	32016	Carmen G M	29583	E van	27318	Chapot H	27300
Burlingame B B	33232	Cambridge	33578	Carolus D de	31157	Cave R A	28903	Chapple L	31857
Burlingame B B	33233	England Uni-		Carolus V de	29088	Cave R A	29089	Chapron C	32951
Burmann K	30927	versity School		Caroselli N E	26322	Cavellini O	32358	Chapron C	32952
Burnham C R	26661	of Agriculture		Caroselli N E	26323	Cavia C E	27634	Chapuis B A	32953
Burnouf J	31112	Cameron A E	27299	Caroselli N E	26347	Cavina R	32923	Charitat P	30034
Burns C C	29447	Cameron J W	26910	Carosi G	28308	Cawein M	29559	Charkey L W	29774
Burns J C	29369	Camirand R	33553	Carpenter A W	31513	Cazal P	30156	Charles A	28541
Burns K F	29582	Campacci C A	27631	Carpenter C A	31750	Cazal P	30157	Charnot A	28904
Burrell J	31969	Campanile S	27849	Carpenter C D	32649	Cazaux J V	33031	Charton A	29023
Burriel F	27847	Campbell G M	29091	Carpenter D J	29843	Ceccarelli V	26737	Chase A	26099
Burriel F	27848	Campbell G R	26081	Carpenter J	31886	Cecil L	29846	Chase W W	28536
Burrows L F	32195	Campbell H N	32731	Carpenter K J	29693	Cederholm Y	26738	Chastain E D Jr	32979
Burström H	26735	Campbell I J	27043	Carpenter R D	28811	Celestre M R	26662	Chatel C	27703
Burström H	26778	Campbell IL	29243	Carpenter S J	30760	Celino M S	27877	Chatelain A	32131
Burtner J C	27353	Campbell J	29737	Carpenter T R	26484	Cena M	29449	Chateller P A	27895
Burton H	29370	Campbell J J R	26872	Carpio B R del	27044	Centola G	28813	Chatters R M	26010
Burton J	32903	Campbell R	33514	Carr D R	28664	Centro Nacional	26214	Chaturvedi M D	28342
Burtov V	30346	Campbell S	29086	Carr L J	28812	de Agronomia		Chaudé P	28375
Burti E	30674	Campbell W A	26320	Carra P	27421	Centro Nacional	27620	Chaves R	27850
Burzlaff H	32928	Campbell W A	26321	Carrère L	28962	de Agronomia		Chelquist G	31748
Busch E	31458	Campbell W W	32929	Carrie J	33318	Centro Nacional	27645	Chen C T	27952
Bushnell L D	29757	Campo S del	32354	Carrigan J E	33030	de Agronomia		Chen S Y	26663
Busnel R G	30155	Campredon J	28540	Carrion P	31617	Centro Nacional	27811	Cheng T C	27208
		Campredon J	28643	Carroll J	30216	de Agronomia			
		Campredon J	28758	Carter C T	31226				
				Carter D G	31282				



Item	Item	Item	Item	Item					
Cheremisnov G A	28178	Clausen R L	30677	Conférence Internationale Africaine sur l'Economie Indigène Rurale	33039	Cordlez E	29092	Crèvecoeur A	30874
Cherewick W J	26326	Clavadetscher C	29057			Cords H P	27699	Crew J	32362
Cherrington J O	31423	Claydon T J	31839			Corliss P G	27427	Crew W	30236
Cherry G	31806	Clayton E E	26486			Cormack R M M	28073	Crippa G	29427
Chester K S	27851	Cleaver T	32985	Congrès des Ingénieurs Coloniaux	33040	Cornfield A H	31429	Cristau B	32321
Chevalier A	26084	Clegg H H	27227			Corning V	31548	Cristiano M	30352
Chevalier A	26085	Clegg O	32020	Congrès International des Industries Agricoles	33041	Corns W G	27707	Croce L	33266
Chevalier A	26664	Clegg R E	29761			Cornu T	27354	Croce R	32962
Chevalier A	27084	Clements H F	33152			Corona Núñez J	33333	Crook H C	27429
Chevalier A	27704	Clements J	27425			Corrado B W	32737	Crosby J	27047
Chevalier A	27759	Clements J R	32227			Corsini T	31183	Crosby J	27181
Chiappelli R	26740	Clendenning K A	26938	Congresso Açucareiro Nacional	32799	Cory E N	30219	Crosby J	31293
Chiaromonte A	30929	Cleófas J	32470			Cory E N	30551	Crosier W F	26330
Chieffi A	28877	Clerck J de	31620	Conlinck P J de	32581	Cory V L	27708	Croster W F	26747
Child R	26911	Clerici E	33483	Conkle H J	26564	Cosentino S	32275	Crossman B D	33234
Chilton S J P	26464	Cleriot J	32797	Conklin E A	31807	Cosmo A	31693	Crossman J V	29251
Chilton S J P	26692	Cline J A	32525	Conley A R	31864	Cosmo I	27373	Crow H E	30678
China W E	30807	Clodius R L	32947	Conlon J	28218	Cossette M	32653	Crow J F	30353
Chittenden A E	32019	Clovis J L	27085	Conn J K	29488	Cossu A	27087	Crow W C	31463
Chittenden D W	29090	Cochran K	29552	Connecticut Dept of Farms and Markets	32324	Coste A	27636	Crow W C	31464
Chokkanna NG	27852	Cochrane R H	31254			Coste A C delle	30872	Crowdy S H	26331
Chona B L	26178	Cochrane R H	31381	Div of Markets		Cosway B	31462	Cruden D	29646
Chopard L	31025	Cockman B	31460	Connecticut Off of the Milk Administrator	31951	Cota A B	29093	Cruellas J	32584
Chopard L	31026	Cocoa Chocolate and Confectionery Alliance	27761			Cotini A	27762	Cruess W V	31549
Choquette C	29631	Coe D M	26244	Connelly H H	28644	Cotini A	30350	Cruess W V	31657
Christensen E J	31355	Coene R de	27045	Connelly H H	28716	Cotta A	28439	Cruess W V	32277
Christian W A	32931	Coetsee W H K	32274	Connelly R G	31887	Cottenie A H	26742	Cruess W V	32571
Christiansen M J	29247	Coffey J S	30078	Conover A G	32880	Cotton Disease Council	26747	Cruickshank I A M	26332
Christie J R	26327	Coffey W C	33620	Constantin T	26666	Committee on Cotton Seedling Diseases		Cruz S R	31115
Christopher E P	28080	Cogotti A	32954	Constantin T	26666	Couch J R	29687	Cuboni E	28965
Christophersen R	31593	Cohen D	27115	Centi V	29249	Couch J R	29695	Cuenot G	33044
Church H L	33645	Cohen G	27705	Conway E A	28421	Couden H N	32245	Cuisance P	26215
Church R J H	32579	Cohen G	27706	Conway H M	32471	Couderc V	32276	Cullinan B	27088
Chvyrev A F	30348	Cohen N	27426	Conway H M	32540	Coulborn A E	32360	Cullity M	29177
Chwojnowski A	29450	Cohic F	30217	Conyers L N	31461	Country Land-owners' Association	33434	Culwick A T	30683
Chyc E	32548	Cojuangco J	33037	Cook A C	29157	Courcy A	33435	Cummings G A	31193
Ciani L	30108	Colas G	32359	Cook C W	27086	Cournier M J	32361	Cumming H T	31550
Ciccarone A	26612	Colas J	31787	Cook C W	30023	Courtney W D	26744	Cummins C B	32022
Ciferri R	26741	Colbert A H O	29091	Cook H	26906	Coutinho M	27228	Cummins G B	26012
Cillie G G	32163	Colbourne M J	30218	Cook H L	31514	Couturier A	30351	Cunha T J	30088
Cipriano T	33035	Colby E M	33475	Cook R L	27827	Couturier A	30552	Cunningham I J	29252
Cittadini J C	28406	Colby R	33431	Cooke G W	27954	Couturier A	30931	Curcio M	27955
Cizek L J	29451	Coleman G	29958	Cooke H L	26946	Cowen J C	32612	Currie C	33517
Cizek L J	29463	Coles R	32651	Coomber H E	31621	Cowley T W	27428	Currie L	33072
Cizik V	33036	Coll-Camalez M	33383	Coomber H E	32019	Cowling E	33351	Curry T C	31498
Clampitt W	32984	Collins N E	29848	Coomber H E	32127	Cox C E	26745	Curry T C	32200
Clancy C W	30675	Collins J L	32580	Coomber H E	32132	Cox C E	26851	Curtis B W	33516
Clapp A L	26971	Collins W A	30349	Coomber H E	32132	Cox D R	32006	Curtis J O	31282
Clark A M	30871	Collisson C F	32942	Coomber H E	3258	Cox D R	32021	Cury R	30354
Clark B E	26945	Colón I A	27953	Coomber H E	32974	Cox R	33154	Cuthbertson H	27213
Clark C E	27423	Colón Torres R	28171	Coomes T J	31621	Cozzo D	26613	Cuthill J C	30212
Clark F A	27180	Colonial Sugar Refining Co	32798	Coomes T J	32132	Craig D	32738	Cutler C J	29428
Clark F C	30676	Colowick S P	26927	Coomes T J	32574	Crall J M	26328	Cutts N S	26748
Clark F J	28281	Comar C L	33579	Coomes T J	32582	Cralley E M	26329	Czaja A T	26614
Clark I T	28842	Comberg E	29849	Coon J M	29493	Cram J S	33352	Czepek E	28645
Clark J H	27424	Combs L R	28172	Coony J J	27936	Cramer P J S	2776		
Clark K G	28239	Comfins	29762	Coop I E	30031	Crandall B S	26214		
Clark M	29176	Compton K T	31401	Cooper C M	29250	Crane J	30479		
Clark M	31292	Condado C	26213	Cooper D H	32736	Crane J C	31070		
Clark R	28878	Condé B	30478	Cooper J C	29632	Cranston A E Jr	28694		
Clark W H	29298	Condé B	31069	Cooper J F	30808	Crapp H P	31423		
Clark-Lowes D N	31400	Commission Nationale Permanente des Industries Agricoles	33041	Cooper J F	33153	Crary D D	29970		
Clarke B W	32244	Commonwealth Mycological Institute	26212	Cooper L F	33515	Cravino Belloni N	28964		
Clarke J D W	29517	Commun R L	26429	Cooper M M	29850	Crawford R V	32583		
Clarke J D W	29539	Compañia Salvadoreña del Café	33576	Cooreman J	30479	Creek C R	31451		
Clarke J D W	32539	Compton K T	31401	Cooreman J	31070	Creighton W S	30873		
Clarke J F G	30930	Condado C	26213	Cope C	33041	Cremer H D	33554		
Clarke J F G	30941	Condo B	30478	Copple H E	32198				
Clarke J M	32650	Condo B	31069	Coppock J B M	31547				
Clarke P M	31155	Copulsky W		Copulsky W	31576				
Clarke R A	27226	Copulsky W		Copulsky W	32784				
Claus E P	26011	Copulsky W		Copulsky W	32785				
Claus F	27760	Corbett R		Corbett R	32652				
Clausen D W	29248	Cordesse A		Cordesse A	33484				
Clausen R	30549								



	Item		Item		Item		Item		Item
Dalrymple-Champerneys Sir W	28966	Day W R	28441	Denmark Statens Forsøgsvirksomhed i Plantekultur	26337	DeWolfe T A	26296	Dohnal T	31118
Daly J A	32024	De N N	29808	Denmark Statens Forsøgsvirksomhed i Plantekultur	26338	Deyell M J	30362	Doldge E M	26180
Dammann K	30357	Deans A S C	30360	Denmark Statens Forsøgsvirksomhed i Plantekultur	26339	Deysson G	26812	Doignon P	26149
Dana S T	28282	Dearstynne R S	29638	Denmark Statens Forsøgsvirksomhed i Plantekultur	26340	DeZeeuw D J	26340	Dojmi di	31553
Danell H	27054	d'Easum C G	29633	Denmark Statens Forsøgsvirksomhed i Plantekultur	27089	Dhade G W	26420	Delupis S	26973
Daniel F	30932	Deatherage F E	32603	Denmark Statens Forsøgsvirksomhed i Plantekultur	27090	Dhade G W	26497	Dolghik I S	26973
Daniels W B	30755	Debach P	30220	Denmark Statens Forsøgsvirksomhed i Plantekultur	27091	Dhannalal	26345	Dolinga E	31809
Daniels W M	33335	De Baun R M	28843	Denmark Statens Forsøgsvirksomhed i Plantekultur	27092	Dharmani L C	28908	Doll E R	29584
Dannecker K	28440	DeBeukelaer F L	32506	Denmark Statens Forsøgsvirksomhed i Plantekultur	27093	Dhawan C L	27825	Doll E R	29595
Dannemann R	32800	DeBevoise F	27435	Denmark Statens Forsøgsvirksomhed i Plantekultur	27094	D'fchenko P	31749	Doll E R	29767
Dannhofer O	31840	Debor H W	27320	Denmark Statens Forsøgsvirksomhed i Plantekultur	27095	Diachun S	26488	Doll R J	33046
Darby B T	33267	Decker H C J de	32755	Denmark Statens Forsøgsvirksomhed i Plantekultur	27096	Dibbern H	29179	Dollar J A W	28963
Darby J F	26333	Decker P	26335	Denmark Statens Forsøgsvirksomhed i Plantekultur	27097	Dibbern H	31888	Dollfus R P	30551
Darby J F	26531	Decoux L	28067	Denmark Statens Forsøgsvirksomhed i Plantekultur	27098	Dickerman M B	28174	Dolson L L	27439
Darby R T	26750	Decoux L	31116	Denmark Statens Forsøgsvirksomhed i Plantekultur	27099	Dickerson G E	29118	Domingo W E	27810
Darcel C L	29761	Dedek J	32801	Denmark Statens Forsøgsvirksomhed i Plantekultur	27100	Dickerson G E	29119	Dominican Republic General de Estadística	32556
Dardillat R	29278	Dedek J	32802	Denmark Statens Forsøgsvirksomhed i Plantekultur	27101	Dickey J B R	28256	Domingues O	30079
Darfeldt E	27431	Deems R E	26336	Denmark Statens Forsøgsvirksomhed i Plantekultur	27102	Dickey R D	27437	Domoráček P	33353
Darlow H M	30933	Deering F J	28226	Denmark Statens Forsøgsvirksomhed i Plantekultur	27103	Dickinson E M	29765	Donahoo A	31119
Darmer G	26580	Deering F J	28227	Denmark Statens Forsøgsvirksomhed i Plantekultur	27104	Dickinson T	28718	Donald Ross & Co	33047
Darrah L B	32654	Deetjen G	32656	Denmark Statens Forsøgsvirksomhed i Plantekultur	27105	Dickinson T A	32509	Donmall B	29429
Darrow M I	32655	Defort des Ylouses G	30361	Denmark Statens Forsøgsvirksomhed i Plantekultur	27106	Dickman P B	32134	Donnelly M	27916
Das M C	26615	Degener O	26143	Denmark Statens Forsøgsvirksomhed i Plantekultur	27107	Dicks M W	31750	Donohoo A W	31120
Das R	32363	Degrez R	32803	Denmark Statens Forsøgsvirksomhed i Plantekultur	27108	Dickson J G	26365	Donovan J M Jr	31351
Das S	28219	Degryse G	32472	Denmark Statens Forsøgsvirksomhed i Plantekultur	27109	Dickson R C	26527	Doran C W	28485
Das Gupta J	30811	Degteva T G	32745	Denmark Statens Forsøgsvirksomhed i Plantekultur	27110	Dickson R C	30812	Döring G	28378
Dastur R H	26751	Delis W B	31966	Denmark Statens Forsøgsvirksomhed i Plantekultur	27111	Dieckmann F A	27958	Döring H	29123
Datta S	29820	de la Fargue D G H	33293	Denmark Statens Forsøgsvirksomhed i Plantekultur	27112	Diederich	28608	Döring H	29372
Datta S	29821	Delak M	29274	Denmark Statens Forsøgsvirksomhed i Plantekultur	27113	Diegues Júnior M	32804	Dorlon P A	33048
Daubigne P	29502	Delalande A	32746	Denmark Statens Forsøgsvirksomhed i Plantekultur	27114	Diehl W W	26179	Dornik O	30138
Daugherty W D	29254	De Lange M	29094	Denmark Statens Forsøgsvirksomhed i Plantekultur	27115	Diemer G	30363	Dorset Horn Sheep Breeders' Association	29996
Daujot A	28244	Delaplane J P	29811	Denmark Statens Forsøgsvirksomhed i Plantekultur	27116	Dieten S W	29097	Dorst J D	33045
Dauphin J	31551	Delasnerie J	31117	Denmark Statens Forsøgsvirksomhed i Plantekultur	27117	J van	27194	Dory J	32875
Dave N N	32585	Delavault R E	28236	Denmark Statens Forsøgsvirksomhed i Plantekultur	27118	Dieterich V	28309	Döscher A	29965
Davenport L	32717	Delaware State Board of Agriculture	33580	Denmark Statens Forsøgsvirksomhed i Plantekultur	27119	Dieterich V	28377	Dossa G	31693
Davault L	30934	Delcambe L	26013	Denmark Statens Forsøgsvirksomhed i Plantekultur	27120	Dietrich K	32657	Dosse	30554
David R	26752	Delcroix A M	27048	Denmark Statens Forsøgsvirksomhed i Plantekultur	27121	Dietrich W	29453	Dossin C O	32658
David R	26753	Deleau J	32361	Denmark Statens Forsøgsvirksomhed i Plantekultur	27122	Dietz M	31246	Dössing P	32987
Davidovich S M	31255	Deleurance E P	30875	Denmark Statens Forsøgsvirksomhed i Plantekultur	27123	Dietz R	32366	Dost F H	28228
Davidson H R	33485	Delhaye R	26754	Denmark Statens Forsøgsvirksomhed i Plantekultur	27124	Dijkman M J	28175	Dottridge R B	28091
Davidson J A	32662	Delhaye R J	27765	Denmark Statens Forsøgsvirksomhed i Plantekultur	27125	Dijkstra N D	28909	Dotzenko A	27073
Davidson J A	32663	Dell A	29095	Denmark Statens Forsøgsvirksomhed i Plantekultur	27126	Diller J D	26341	Dotzenko A	27092
Davidson R S	26334	Dell R A	31386	Denmark Statens Forsøgsvirksomhed i Plantekultur	27127	Dillon E	33045	Doubek B	31889
Davidson W A	27709	Dell R A	31388	Denmark Statens Forsøgsvirksomhed i Plantekultur	27128	Dimock A W	26342	Dougherty R W	30037
Davidson W L	32738	Delley R	30273	Denmark Statens Forsøgsvirksomhed i Plantekultur	27129	Dimond A E	26489	Douglas G T	32027
Davidson W M	30103	Delmas R	31027	Denmark Statens Forsøgsvirksomhed i Plantekultur	27130	Dimond A E	26489	Douglas T W	32028
Davies A J	32133	DeLoach G	28527	Denmark Statens Forsøgsvirksomhed i Plantekultur	27131	Dimond A E	26489	Douglas W A	30221
Davies E J	30358	DeLoeffre G	28089	Denmark Statens Forsøgsvirksomhed i Plantekultur	27132	Dimond A E	26489	Douglass I B	28844
Davies G M	27710	Deloye M	31515	Denmark Statens Forsøgsvirksomhed i Plantekultur	27133	Dimond A E	26489	Doutt F V	28795
Davies G M	30024	Delucq	26972	Denmark Statens Forsøgsvirksomhed i Plantekultur	27134	Dimond A E	26489	Dove W E	30680
Davies L	30679	Delucq	31516	Denmark Statens Forsøgsvirksomhed i Plantekultur	27135	Dimond A E	26489	Dow M F	27440
Davies P G	30359	Demaree J B	26509	Denmark Statens Forsøgsvirksomhed i Plantekultur	27136	Dimond A E	26489	Dowdle R L	31786
Davies R P	27710	Demeritt D B	28761	Denmark Statens Forsøgsvirksomhed i Plantekultur	27137	Dimond A E	26489	Dowling M A C	30756
Davies V	33139	Demers J M	26913	Denmark Statens Forsøgsvirksomhed i Plantekultur	27138	Dimond A E	26489	Downer H E	27441
Dávila M A	29553	Demidov S	28090	Denmark Statens Forsøgsvirksomhed i Plantekultur	27139	Dimond A E	26489	Downes J A	30222
Davin J A	29851	Deming B	29634	Denmark Statens Forsøgsvirksomhed i Plantekultur	27140	Dimond A E	26489	Downes L J	31294
Davis B M	29971	Demi H	27637	Denmark Statens Forsøgsvirksomhed i Plantekultur	27141	Dimond A E	26489	Downing C G E	28094
Davis C L	30035	Demortier G	27956	Denmark Statens Forsøgsvirksomhed i Plantekultur	27142	Dimond A E	26489	Downing C W	28970
Davis Mrs D F	27452	Demortier G	27957	Denmark Statens Forsøgsvirksomhed i Plantekultur	27143	Dimond A E	26489	Dracos E	31594
Davis E C	33646	Demnitz A	30109	Denmark Statens Forsøgsvirksomhed i Plantekultur	27144	Dimond A E	26489	Dräger K	30109
Davis F W	27433	Denis E C	33235	Denmark Statens Forsøgsvirksomhed i Plantekultur	27145	Dimond A E	26489	Draghetti A	27959
Davis G K	27896	Denmark Statens Forsøgsvirksomhed i Plantekultur	26217	Denmark Statens Forsøgsvirksomhed i Plantekultur	27146	Dimond A E	26489	Drake C J	30815
Davis G K	29178	Denmark Statens Forsøgsvirksomhed i Plantekultur	26218	Denmark Statens Forsøgsvirksomhed i Plantekultur	27147	Dimond A E	26489	Drake G L	28695
Davis J F	32986	Denmark Statens Forsøgsvirksomhed i Plantekultur	26219	Denmark Statens Forsøgsvirksomhed i Plantekultur	27148	Dimond A E	26489	Drake R J	26560
Davis L H	26298	Denmark Statens Forsøgsvirksomhed i Plantekultur	26220	Denmark Statens Forsøgsvirksomhed i Plantekultur	27149	Dimond A E	26489	Draudt M	30936
Davis R A	33436	Denmark Statens Forsøgsvirksomhed i Plantekultur	26221	Denmark Statens Forsøgsvirksomhed i Plantekultur	27150	Dimond A E	26489	Drayton G F	27442
Davis R B Jr	31227	Denmark Statens Forsøgsvirksomhed i Plantekultur	26222	Denmark Statens Forsøgsvirksomhed i Plantekultur	27151	Dimond A E	26489	Dreibelbis E B	29852
Davis R B Jr	31228	Denmark Statens Forsøgsvirksomhed i Plantekultur	26223	Denmark Statens Forsøgsvirksomhed i Plantekultur	27152	Dimond A E	26489	Dreibelbis F R	27828
Davis R S	27434	Denmark Statens Forsøgsvirksomhed i Plantekultur	26224	Denmark Statens Forsøgsvirksomhed i Plantekultur	27153	Dimond A E	26489	Dreier A F	26974
Davys-Jones G	27764	Denmark Statens Forsøgsvirksomhed i Plantekultur	26225	Denmark Statens Forsøgsvirksomhed i Plantekultur	27154	Dimond A E	26489	Dreier A F	27999
Dawson E Y	26581	Denmark Statens Forsøgsvirksomhed i Plantekultur	26226	Denmark Statens Forsøgsvirksomhed i Plantekultur	27155	Dimond A E	26489	Dreizen S	33517
Dawson F L M	29255	Denmark Statens Forsøgsvirksomhed i Plantekultur	26227	Denmark Statens Forsøgsvirksomhed i Plantekultur	27156	Dimond A E	26489	Dresco E	30481
Dawson J E	26912	Denmark Statens Forsøgsvirksomhed i Plantekultur	26228	Denmark Statens Forsøgsvirksomhed i Plantekultur	27157	Dimond A E	26489	Dresco E	30482
Dawson W M	29157	Denmark Statens Forsøgsvirksomhed i Plantekultur	26229	Denmark Statens Forsøgsvirksomhed i Plantekultur	27158	Dimond A E	26489		
Day N S	30036	Denmark Statens Forsøgsvirksomhed i Plantekultur	26230	Denmark Statens Forsøgsvirksomhed i Plantekultur	27159	Dimond A E	26489		
Day W R	26216	Denmark Statens Forsøgsvirksomhed i Plantekultur	26231	Denmark Statens Forsøgsvirksomhed i Plantekultur	27160	Dimond A E	26489		



Item	Item	Item	Item	Item
Dresco E 30483	Edelman C H 33299	Emge R G 26616	Everett H L 26669	Fein Z 33053
Drilhon A 31055	Edington G M 30218	Emiliani E 26914	Evers A M J 30560	Feldman A W 26322
Drost J R 32570	Edler G C 32763	Emmental Ex- 33487	Evers R A 26060	Feldman A W 26323
Druce E 31430	Edney L E 33157	portgesellschaft für Schweizer Käse	Everson L 26755	Feldman A W 26347
Drummond M H 27443	Edwards G R 27640	Emmitt R W 26150	Ewan J 33613	Feldmesser J 26573
Drummond W C 27443	Edwards G R 30225	Emon J 27359	Eweson E 28257	Félice P de 33269
Dubedout C 29768	Edwards J 28879	Emperaire J 30056	Ewing J T 33158	Félice P de 33270
Dubman M C 32029	Edwards J 29098	Enders C 32895	Ewing W R 29698	Félice P de 33271
Dubnitskiy A A 29536	Edwards J 29258	Endisch O 27772	Ewins A 29699	Felix E L 26348
Duboc J L 27093	Edwards J T 28971	Ene de Piro M 27446	Exline H 30484	Fell P 30368
Dubourg J 32805	Edwards M A 31773	Ene de Piro M 27446	Exline H 30485	Fellows I F 33161
Dubourg J 32806	Edwards N 27767	Ene de Piro M 27446	Eyles D E 30764	Felsenfeld O 29770
Dubret R 28542	Edwards W E 33486	Ene de Piro M 27446	Eyndhoven G L 30486	Felton R A 32931
Dubret R 28543	Edwards W K 30367	Engel F 31623	van Eyster W H 26222	Fenaroli L 26979
Dubrova K D 30050	Eggenberger W 31622	Engel W J 27448	Eyster W H 27964	Fenjes P 30227
Dubuis E M 29430	Eggers H 28986	Engelhard J 27096	Ezurra J C 28910	Fenton F 32315
Ducap R 32135	Eggert O K 28972	Engelhard J 31122	Faan H C 26514	Fenton F A 30228
Duchartre P L 27214	Egner K 28862	Engelhard J 31256	Faan H C 26515	Fenton F A 30810
Duché J 27879	Egorov V I 27255	Engelhard J 31329	Faber W 30561	Fenton R H 28579
Duck R W 30139	Egorov V V 27903	Engelmann C 29769	Fabergé A C 26756	Fergus C L 26349
Ducke A 26086	Ehlers P L 26974	Engle L G 28464	Fabius Brother 26152	Ferguson A E 29856
Duckworth J 29693	Ehlers V B 32165	Engler K 27449	Fabre P H 31624	Ferguson C W 26015
Duckworth J 29697	Ehrenberg P 27961	Englerth G H 28719	Faccini G C 33439	Jr Ferguson F L 28094
Ducourtial P 27715	Ehrlich C 29259	Engstedt G 27256	Fach P 29261	Fernald M L 26061
Ducourtial P 30223	Ehrlich C 30111	Enix J R 32943	Facq L 29455	Fernandes B 27452
Dudley D I 27112	Eibl K 29099	En'kova E I 28442	Fadler L F 32203	Fernandez- Cano L H 31569
Dudley R 31121	Eichelberger W J 28092	Enrile P C 27207	Fadler L F 32204	Ferrando R 29181
Dudok van Heel J P 27193	Eichinger J 32369	Enrile P C 32845	Faestraets M L 27717	Ferreira J T 29102
Dufournet R 27094	Eichinger J 33300	Ensminger D 33651	Fahmi A H 31890	Ferris R S 26089
Dufourne M 31595	Eichler W 30757	Ephrussi B 26663	Fahringer F 31194	Fesneau M 32588
Dunford R A 32586	Eichler W 30758	Epling C 26014	Fain A 30682	Fester G A 32589
Dugan S V 32717	Eichloff K 31695	Eppig J J 28211	Fairbairn H 30683	Feuge R O 32593
Dugat M 30364	Elpper D W 28914	Eppright E S 33519	Fairbairn W A 28177	Fevrier J G 31519
Dugat M 30365	Elsele A 28609	Erdman H E 31465	Fairfax-Blake- borough J 29554	Feytaud J 30562
Duggan I W 33312	Elsele C W 30123	Erdmann A A 29260	Fairfield-Smith H 32750	Feytaud J 30563
Duggan I W 33313	Elself 27444	Erdmann F 29100	Fairley E H 27451	Feytaud J 31029
Duggan I W 33437	Ekberg L 32031	Eremeev K 33236	Fairweather G 29101	Fidler J C 32282
Dukhanin K S 27254	Ekbote R B 26345	Erickson E C O 28856	Falco F 26914	Fiedler O G H 30229
Dulac J 26814	Eke P A 31517	Erickson S 33256	Fangauf R 29700	Field E T 32575
Duley F L 28176	Ekstam T 28762	Ernould L 26511	Fankhauser R 29456	Field W D 30941
Dumont R 33156	Elenevskaya E V 27095	Ernould L 26512	Fanning J W 31257	Figueira A 33237
Dunbar G 30937	Elfwing Y 33354	Ernould L 30558	Fanning J W 31257	Figueiredo J B 29262
Duncan J E 31352	Elgenmark O 33518	Errington B J 29585	Fanning J W 33052	Fileni E 33489
Duncan R B 27194	Elgueta M 27768	Erteld W 28354	Fantini O 33268	Finch F H 27097
Dunn H A 26087	Elizarova N A 30604	Erwin L E 29757	Farber E 28816	Finckh W 31295
Dunne H W 30110	Elkinton C M 31518	Esaki T 30159	Faria R de 29503	Findlay J D 29263
Dunnett F W 26230	Ellenberg H 26582	Escartin A 28973	Farmer S 31258	Findlay J D 29264
Duparquet P 29853	Ellengorn A E 26861	Eschweiler T 27641	Farmer S 33159	Findlay W P K 28665
Du Plessis S J 26510	Eller R Z 32201	Escoira R 29855	Farrar L D 27257	Fink H C 26350
Duprez K 30224	Eller R Z 32202	Esmond C W 31798	Farrington C C 31466	Finn H 28624
Dupuis C 30816	Elliman D T 27445	Español Coll F 30559	Fassett N C 26089	Finn T P 27726
Durno J W 29091	Elliot C S 26975	Espinoza L de 27372	Fassetta L 32930	Finnell H E 32761
Durst C E 27321	Elliot E 30055	Espriella J R 29180	Fassuliotis G 26573	Finnis J M 28481
Dussardier M 29240	Elliot E S 26393	Essary E O 32667	Faulkner E H 27965	Floravante C 29431
Du Toit E 26975	Elliot F C 26346	Essary E O 32668	Fausel W 32807	Fischbach A 31955
Du Toit R 27716	Ellis F E 29854	Esser J 26513	Faust E C 28974	Fischbeck K 31891
Dutton H J 32612	Ellis F E 32659	Ethells J L 32281	Favera R dalla 29373	Fischer C M 32664
Dvorlankin F A 26947	Ellis G 32660	Ettien I E 30057	Faville L W 32166	Fischer C W Jr 32896
Dyer I A 30089	Ellis G 32661	Ettlinger J 27642	Fazakerley T W 32733	Fisher E G 26757
Dyr J 32280	Ellis J 30699	Ettlinger J 27643	Faye H 28975	Fischetti D L 30917
	Ellison W D 27962	Euler R 31958	Fayol A 33614	Fisher C E 27718
	Elrington J D 31247	Evans A S 29621	Feder N 31003	Fischer F 31195
	Elter L 31332	Evans B R 30080	Federation of 30759	Fischer G W 26181
	Elton E T G 30555	Evans C D 32587	Malaya Malaria Advisory Board	Fischer L 31892
	Elvehjem C A 29529	Evans C D 32612	Federer K E 28976	Fischer- Schlemm W E 31259
Eads F E 29454	Elven E 30226	Evans Sir G 33051	Federico L 31606	Fisher J N 28379
Earhart R W 26344	El Zoheiry M S 30556	Evans H 27769	Federico L 31625	Fisher R C 30561
Earley D 27960	El Zoheiry M S 30681	Evans H R 28815	Federico L 31751	Fishley A J 29857
Earp U F 31097	El Zoheiry M S 30938	Evans J 32136	Federico L 32162	Fisker S 29374
Easly N L 32514	El Zoheiry M S 30939	Evans L J 27450	Fedrunov V V 28516	Fitzgerald O A 27919
Easterbrook L F 33050	El Zoheiry M S 30940	Evans R I 26151	Fedtko 27917	Fitzgerald O A 31359
Eaton H D 31750	Embrece N D 33551	Evans R J 32662	Fedtko 28093	Fitzpatrick M J 30115
Echarri Loidi J M 29635	Embrece W D Jr 32955	Evans R J 32663	Fedtko 33160	Fitzpatrick R E 26279
Eck A 31691	Embrece W D Jr 32967	Evans T A 27963	Feduchy 31647	Flament R 28904
Eckardt C 32368	Embrece W D Jr 32968	Evans W D 27322	Marino E 29586	
Eckert J E 30366	Emden F I van 30557	Evelyn S H 26979		
Ecuador Minis- terio de Economfa 32473	Emels W 26583	Eveno J H 26027		
	Emerson F 26314			



	Item		Item		Item		Item		Item
Flanders C	33520	Foschi M	33257	Freitas M G	30113	Gadow W von	28355	Gaudy C A	29966
Flawn L N	27644	Foschi S	26352	French C E	31811	Gaekwad S R	26036	Gaul	27972
Fleischer K	33615	Fossati L	30370	French C S	26925	Gage C E	32980	Gaulden M E	31029
Fleming H	30942	Fossati L	30371	French G T	30373	Gagnard J	27646	Gäumann E	26358
Fleming W E	30565	Fossati L	32454	French H W	32541	Gaide	31124	Gäumann E	26764
Flensburg R	26351	Foster A E	26223	French O C	31123	Gaillard R	30375	Gäumann E A	26225
Fleschner C A	30487	Foster C	31159	French R G	26329	Gaillard R	30376	Gaumnitz E W	31468
Fletcher A L	32590	Foster G H	31229	Frens A M	29269	Gaines J C	31250	Gaumont R	29271
Fletcher D S	30943	Foster J C Jr	29859	Frets G P	26673	Galakhov N N	26761	Gaus G E	32112
Flett J	28084	Foster L G	31467	Freude H	30569	Galanov A M	30377	Gauss W	32372
Fleury F	29853	Foster R L	27182	Freudenberger K	28855	Galber H	28720	Gautheret R J	26491
Flint J C	29265	Foster T	33056	Freudenberger	31160	Galesloot T E	31841	Gavin Sir W	33191
Floate F P	29636	Foster W R	30231	Freudewald W	32370	Galetti L	30378	Gavrilenko A	32456
Flock R A	30812	Fouarge J	27956	Frey E	27461	Galindo A	29997	Gavrilov B I	28465
Florent'ev L A	28178	Fouasse J	28544	Frey G	30569	Galindo P	30760	Gaye K	28977
Flores A M A	27645	Fouassin A	32164	Frey-Wyssling	26617	Gallaher G L	26762	Gayford G W	30234
Florovskiy A M	28380	Fournaise	26981	A		Galland H	30317	Gayot G	30114
Flückiger G	29039	Fowler D L	26426	Frezal P	26355	Gallay R	26224	Gaztambide	27770
Flückiger G	29266	Fowler R G Jr	30058	Frick Davie C	33272	Gallego Pied- rafitia J	29701	Arrillaga C	
Flückiger G	29271	Fowler R M	28763	Friedel G	31893	Galletti A C	29375	Gaztambide	29106
Flückiger G	30112	Fowles P D S	28284	Friederich J C	26356	Gallina L	29270	Arrillaga C	
Flux D S	29182	Fox A S	26671	Friederichs K	30233	Gallini I	32034	Gealrain J	31767
Flux D S	29243	Fox A S	26672	Friedman M	33162	Gallo G G	29603	Gee G	32740
Flygare	31626	Fox F W	33522	Friedrich R	28545	Gama A M P da	26763	Gehle H	32373
Foard M	29742	Fox H M	27455	Friend W H	27301	Gambarelli G	31629	Geier P	30795
Fobes E W	28580	Fox H W	28477	Friesen G D v	31165	Gambetti B	26983	Geier P	30818
Focarile A	30566	Fox I	30684	Friggens P	27719	Gammon N Jr	28056	Gelger	33357
Fogg H G W	27453	France Institut	33616	Friggens P	29104	Ganguli P M	27055	Geller H F	33672
Fogg H G W	27454	Francis E	27456	Friggens P	33656	Gapen C E	26984	Geller L	33523
Fogg H G W	27660	Francis M	33355	Frings L X	27968	Gapen K M	33410	Gemmill A V	31896
Folda W	31788	Francis M	30567	Fripiat J J	27829	Garattoni E	27971	Gendern H van	31753
Foley L K	29103	Francie-Gros- mann H		Frisch K von	30374	Garattoni E	29183	Genevière J	31403
Foley W T	29267	Franclemont J G	30941	Frith H J	26760	Garattoni E	31895	Génin G	32035
Foltz V D	31839	Franco	27967	Fritsch E	32371	Garaudeaux J	27940	Genootschap ter Bevordering van Melkkunde	31697
Fondard L	27098	Armendáriz A		Fritze E	28581	Garcia C	28792	Genoud J F	29107
Fondard L	30230	François A	31970	Froboese V	29860	Garcia M	26657	Gentilini L	31632
Fondard L	33054	Frank B	28528	Fröler K	27054	Garcia-Badell J G	33618	Gentilini L	32167
Fonseca J F	29637	Frank S	26915	Froome S	29861	Garcia Isidro M	33273	George A V	32741
Fonseca M M	32903	Frantz H R	28529	Frost H Jr	30570	Garcia Llosa H	29184	Georgievskiy N P	28466
Font R	33581	Franz H	30161	Frost T R	28845	Garcia Lluch	30379	Geortay G	27771
Fontanille H	31627	Franz H	30162	Frostenson P D	33657	Garcia	32913	Gerdemann J W	26359
Food and Agri- culture Or- ganization of the United Nations	33055	Fraser D R	29531	Fryd C F M	32876	Gard L E	28203	Gericke S	27099
Food and Agri- culture Organi- zation of the United Nations	33055	Fraser E B	30103	Fryer H C	29366	Garden Club of Virginia	27221	Gericke S	28911
Food and Agri- culture Organi- zation of the United Nations	33055	Fraser H M	30372	Fuchs	33301	Gardhouse R	29091	Gerlach M	32283
Food and Agri- culture Organi- zation of the United Nations	33521	Fraser J G C	26982	Fuchs H	27462	Gardner K B	33442	Germ H	26765
Food and Agri- culture Organi- zation of the United Nations	33521	Fraudendorfer S	33356	Fuchs H	28530	Garfild C	32475	Germ H	26948
Food and Agri- culture Organi- zation of the United Nations	33521	Frausanna F	33356	Fugett K A	32182	Garfield C	32475	Gernez-Rieux C	29271
Food and Agri- culture Organi- zation of the United Nations	33521	Freas A D	32665	Fuhr A H	32205	Garino- Canina E	31630	Geroev M IA	26985
Food and Agri- culture Organi- zation of the United Nations	33521	Freas D D	27457	Fuhrman D K	28095	Garino- Canina E	31631	Gersons L	32168
Food and Agri- culture Organi- zation of the United Nations	33521	Frederick L	26353	Fukaya M	30949	Garkavi O V	29407	Gerstel D U	26677
Food and Agri- culture Organi- zation of the United Nations	33521	Fredericksen P S	26759	Fulkerson R S	27969	Garlick G G	28666	Gery R	31404
Food and Agri- culture Organi- zation of the United Nations	33521	Fredericksen P S	31696	Fuller C H F	31435	Garman P	30571	Geslin M	26360
Food and Agri- culture Organi- zation of the United Nations	33521	Fredericksen P S	26354	Fuller J L	29512	Garnatz G	32537	Gevorkiantz S R	28423
Food and Agri- culture Organi- zation of the United Nations	33521	Fredericksen P S	27051	Fuller M	29455	Garner F H	28069	Geyer R P	33524
Food and Agri- culture Organi- zation of the United Nations	33521	Fredericksen P S	27052	Fuller W H	27954	Garner F M	29460	Ghelelovitch S	30761
Food and Agri- culture Organi- zation of the United Nations	33521	Fredericksen P S	27053	Fuller W H	28018	Garrard E H	27880	Ghesquière J	30876
Food and Agri- culture Organi- zation of the United Nations	33521	Fredericksen P S	27061	Fullmer F	27951	Garrett J C	27463	Ghijzen J J	32036
Food and Agri- culture Organi- zation of the United Nations	33521	Fredericksen P S	32033	Fulton J P	26357	Garrett P	31503	Gibb D C	26171
Food and Agri- culture Organi- zation of the United Nations	33521	Fredericksen P S	27061	Fulton N D	26357	Garrido Marquez J	31569	Gibler J W	26361
Food and Agri- culture Organi- zation of the United Nations	33521	Fredericksen P S	32033	Fulton R W	26516	Garrison C S	27167	Gibler J W	26384
Food and Agri- culture Organi- zation of the United Nations	33521	Fredericksen P S	32033	Fulton R W	26532	Garrison C S	32779	Gibson A	32277
Food and Agri- culture Organi- zation of the United Nations	33521	Free M	27459	Fulfs J L	32301	Garriss H R	27211	Gibson J M	28443
Food and Agri- culture Organi- zation of the United Nations	33521	Free M	27459	Funk C	33441	Garros	31499	Gibson J S	31972
Food and Agri- culture Organi- zation of the United Nations	33521	Free M	27460	Funk E	33647	Garth J S	30950	Gibson P A	27936
Food and Agri- culture Organi- zation of the United Nations	33521	Free M	28066	Furlong J R	32526	Gartley K M	29862	Gibson P A	28616
Food and Agri- culture Organi- zation of the United Nations	33521	Free M	29268	Furlong J R	32549	Garvey F A	32515	Gier H T	29457
Food and Agri- culture Organi- zation of the United Nations	33521	Freeman E M	30944	Furuya K	33057	Gasnier A	31971	Giese A C	26933
Food and Agri- culture Organi- zation of the United Nations	33521	Freeman H A	30945	Fussell G E	31342	Gassner	29105	Giese B	31161
Food and Agri- culture Organi- zation of the United Nations	33521	Freeman H A	30946	Fussell G E	33163	Gassner F X	29774	Gifford C	31633
Food and Agri- culture Organi- zation of the United Nations	33521	Freeman H A	30947	Fuster Jaume F	31628	Gastaud J	27461	Gifford C W	30140
Food and Agri- culture Organi- zation of the United Nations	33521	Freeman H A	30948	Fyfe V C	26674	Gastav B G	28582	Gigante R	26517
Food and Agri- culture Organi- zation of the United Nations	33521	Freeman J A	30232			Gates R R	26676	Gil Collado J	30685
Food and Agri- culture Organi- zation of the United Nations	33521	Freemyer G W	31810			Gatta L della	32591	Gilch R	28912
Food and Agri- culture Organi- zation of the United Nations	33521	Freire M J	28880	Gabel W	31752			Gil'diev S A	27361
Food and Agri- culture Organi- zation of the United Nations	33521	Freitas H de	31356	Gabelman W H	26675			Giles N H	26766
Food and Agri- culture Organi- zation of the United Nations	33521	Freitas M G	29309	Gabriel F	27360			Gilgut C J	27465
Food and Agri- culture Organi- zation of the United Nations	33521	Freitas M G	29772	Gachot H	33617			Gill L	30059
Food and Agri- culture Organi- zation of the United Nations	33521	Freitas M G	29773	Gad	32206				
Food and Agri- culture Organi- zation of the United Nations	33521	Freitas M G	29773	Gadda G	31991				



Item	Item	Item	Item	Item	Item
Gill L 32037	Goldspiel S 32742	Graham J H 26492	Gt Brit Ministry 28981	Grube K 27648	
Gilles D C 29775	Goldthwait C F 32041	Graham 30952	of Agriculture and Fisheries	Grurgeon R 28557	
Gilliese J P 28688	Gollmick F 26362	M W R de V 28721	Gt Brit Ministry 29276	Gruet E A 33239	
Gillespie D 31897	Gomes J G 30687	Graham P H 26565	of Agriculture and Fisheries	Grundler W 29293	
Gillespie R L 29458	Gomes P 27195	Graham T W 29753	Gt Brit Ministry 29779	Gruner O C 27258	
Gillespie W F 28770	Gomes P 27303	Gram K 26017	of Agriculture and Fisheries	Grünsels F 33358	
Gillett C A 28285	Gomes P 27976	Gran W T Jr 30382	Gt Brit Ministry 30324	Grushvitskiy I V 26680	
Gillett E C 32809	Gonçalves P A 31184	Grand Canyon Association 30950	of Agriculture and Fisheries	Guardiola L 33065	
Gilley E J 33517	Gondelles A R 28097	Grandchamp-Chaudin A de 32811	Gt Brit Ministry 31520	Guba E F 28212	
Gillieaux P 31634	Gonggrijp J 27720	Grandperrin E 33062	of Agriculture and Fisheries	Gubanov V F 28382	
Gillieaux P 32038	González F G 30141	Granhall I 27057	Gt Brit Ministry 31596	Güde J 28444	
Gillieaux P 32039	González L M 29801	Granhall I 27059	of Agriculture and Fisheries	Gueit M 27421	
Gilman A R 29588	González Men- 30877	Granhall I 32044	Gt Brit Ministry 33525	Guénin H A 30574	
Gilman W 27647	doza R 29263	Grano C X 28483	of Food 33064	Guenther E 32594	
Gilman W 28229	Goodall A M 29376	Grant J N 32081	Gt Brit Over- 33064	Guenther E 32595	
Gilman W 29863	Goodall S H 26862	Grant V 26090	seas Food Corporation	Guerrault A M 33167	
Gilman W 32666	Goodings A C 32042	Grant W S 31636	Greeley W B 28287	Guerin J 32812	
Gilmer R M 26518	Goodman D C 29459	Grantham J B 28611	Green A L 28748	Guernsey F W 28819	
Gilmore A H 33620	Goodman J J 32374	Granville 31756	Greene H C 26182	Guerra A 27848	
Gimingham C H 26584	Goor A 27304	Graser T 28818	Greene S E 33336	Guerret M 29277	
Ginet J 27385	Goossen 33582	Grassl 32160	Greenslade J A 28913	Gugel C F 28696	
Ginsberg A 30115	Goot H 32043	Grassl C O 27196	Greer E M 32377	Guggisberg A 33320	
Giordano B 27302	Göpp 32375	Grassmann W 27772	Greer E N 26986	Guiglia D 30879	
Giorgini C 28096	Gorbachev V M 26585	Grassmann W 32550	Greer E N 32378	Guignot F 30575	
Giovannozzi M 32977	Gordeuk S 29776	Grath J 29275	Gregersen M I 29451	Guignot F 30576	
Givine N 29285	Gordon A 26363	Graton A 31973	Grelg M 27468	Guigo E 31900	
Givine N 29309	Gordon A 31185	Graves E K 31469	Grelg-Smith P 26586	Guilbert H R 29069	
Giroux R 26198	Gordon E D 31101	Graves P P 30953	Grenier O E 32000	Guilbot A 32379	
Gisborne H T 28511	Gordon R F 29777	Grawe O R 27467	Greninger D M 31654	Guilbot A 32380	
Gisiger L 27973	Gordon R M 30236	Gray W D 26671	Greve W 28246	Guilford H E 29185	
Giua M 29589	Gordon Collier S 31162	Gray W D 26672	Gribbins G H 32592	Guilhon J 28982	
Givry P de 27974	Goresline H E 32669	Gray W D 32376	Griebel A 27469	Guilhon J 29278	
Glasscock R S 29058	Goresline H E 32670	Grayson P E 31330	Griebel H 27773	Guilhon J 30383	
Glasscock R S 29185	Gorham J R 29460	Gt Brit Agricul- 33165	Grierson-Jack- 31343	Guillaume J 31637	
Glazebrook J H 28482	Gornés Gómez H 28979	tural Land Commission	Gries G A 26012	Guillaume J 32813	
Glazener E W 29638	Gornés Gómez H 28980	Gt Brit Agricul- 30237	Gries G A 26364	Guillemet R 32352	
Glenn E M 27385	Gorostidi e 30380	tural Research Council	Griffin E D 31974	Guillou R 31248	
Glennie A G 28651	Gorostidi e 30381	Inter-Depart- 31975	Griffin E D 31975	Guilloux R 33359	
Gliddon C 28592	Gorostidi e 30381	mental Insec- 33115	Griffith F 33116	Guimarães M M 29377	
Glover H 28179	Gorrie C J R 29778	tidice Commit- 31103	Griffiths D J 27102	Guinot R 29501	
Glover Str H 28381	Gorsler A 31203	tees	Griffiths J T 30238	Guiscafrré- 31031	
Glushchenko I E 26678	Gorsler A 31230	Gt Brit Board of 33115	Grigor'eva T G 27881	Arrillaga J 28301	
Gmelin 31754	Gorsline E P 31296	Trade 31030	Grillot G 26987	Guise C H 28301	
Gmelin 31893	Gosling L 27466	Gt Brit Central 31030	Grillot G 26988	Gukas'ian A S 27305	
Gmelin 33233	Goss A S 33059	Off of Informa- 31030	Grimm G R 26365	Gulfaeva A 31900	
Gnaedigner L A 29865	Goss A S 33060	tion 31030	Grindaker A 31698	Gulowsen K T 28612	
Gobiet A 29775	Gothé H 28286	Reference Div 30237	Grinnells C D 32527	Gummert F 26770	
Gobis L 31755	Gottbeut A H 29511	Gt Brit Colonial 30237	Grishin N S 33274	Gunderson M F 32670	
Gobis L 32810	Gottlieb F 28610	Off 30237	Grisson P 30573	Gundlach G P 31798	
Gochnauer T A 29272	Gottschau A 28245	Colonial Prod- 30573	Grisson P 30954	Gunnason J 28583	
Godan D 30572	Gottstein J W 28817	ucts Advisory 30573	Grisson P 30060	Günthart A 29108	
Goddard D R 26750	Götze R 29273	Bur 33489	Grisson E E 30060	Günthart A 33240	
Godfrey G H 26285	Gouget C W 32457	Gt Brit Customs 33489	Groenewald J W 29186	Günthart E 30239	
Godfrey G H 30523	Gough B L 32964	and Excise Dept 33490	Gronert A 32284	Günthart E 30240	
Godoy Junior C 27056	Gough H C 26230	Gt Brit Customs 33490	Grøntved P 32766	Günthart E 30588	
Goede B de 31949	Gouin F 27977	and Excise Dept 33490	Grönvall J S 30955	Günther 27197	
Goetchius G R 31899	Gouin F 30688	Statistical Off 27830	Gros A 27103	Günther O 28983	
Goetghebuer M 30686	Gouin F 30689	Gt Brit Dept of 27830	Gros A T 32593	Gunther R 30384	
Goetz K 28258	Gouin F 30690	Scientific and 27830	Groschke 30956	Gupta B D 31074	
Goff O E 32667	Gouin F 30691	Industrial Re- 27830	Grosch D S 30878	Gupta J N S 28311	
Goff O E 32668	Gould I A 31764	search 27830	Grosdietsch T 26588	Gupta S C 32596	
Goffart H 26226	Goulds C J 26744	Road Research 27830	Gross B 31073	Gurova I K 26415	
Goffart H 30951	Govaerts J 26768	Laboratory 27830	Gross C R 26854	Gushchin I V 26771	
Goidanich G 26227	Govande G K 27101	Gt Brit Eco- 33063	Gross W B 29788	Gushchin I V 26772	
Goidanich G 26228	Govin L 33061	nomic Informa- 33063	Grossman J 27470	Gushchin I V 26773	
Goidanich G 26229	Govindan P R 26769	tion Unit 28425	Grossman M I 29440	Gushchin I V 26774	
Gold Coast 28978	Govindu H C 26438	Gt Brit Forestry 28425	Grosso J G 26496	Gushchin I V 27978	
Colony Dept of 32040	Grace G 26016	Commission 26519	Groszmann H M 26679	Gusler G 33066	
Animal Health 31435	Grachev A P 28310	of Agriculture 26519	Grove L C 27471	Gusler G 33241	
Goldberg J B 30235	Graf H 29274	and Fisheries 28259	Groves D E 31344	Güssow 26231	
Goldenberg N 27100	Graff Y 31635		Grubb T 29556	Gustin L 33360	
Goldenstern 27115				Guthrie J G 32045	
Goldin A 26914				Gutknecht H 28914	
Goldring B 30694				Guttmann E S 28881	
Goldsmith E D 30695				Gutzwiller R 26091	
Goldsmith E D 30695				Guyot L 33062	
				Gysel L W 26587	



Item	Item	Item	Item	Item	Item
Haan H de 27649	Hancock J 29279	Harrison C M 27981	Heady E O 33170	Herrmann O W 32209	
Haan-Homans 32743	Hancock R 27474	Harrison H H 33583	Heady E O 33584	Herskowitz I H 30698	
L N S de	Handelskammer 31405	Hart C E 28484	Healer M D 32207	Hertel J 33232	
Haarer A E 32046	Bremen	Hart D S 29999	Hearin J B 32051	Herter R 29783	
Haarer A E 32047	Hander O B 32749	Hart G H 27106	Hebert T T 26794	Herz H 31702	
Haarer A E 32048	Handschin E 30163	Hart G H 28985	Hecht R W 32988	Herzog T 26154	
Haas A R C 27979	Handschin E 30164	Hart J S 28761	Heckel F 33619	Hes J W 27722	
Haas K B 29461	Hanebuth 31757	Hart M L 't 31976	Heckman J H 33421	Heslop-Harrison 30819	
Habersaat E 26183	Hanebuth 31865	Hart S H 32955	Heddergott 30242	G	
Hachenberg F 28312	Hanf M 26775	Hart S H 32967	Hedlund F F 32208	Heslop Harri-son J 26096	
Hack R B 28343	Hanke E 31758	Hart S H 32968	Hedrick W P 32878	Heslop Harri-son J W 26096	
Hackleman J C 26941	Hannah A 30692	Hartard 32325	Heggestad H E 26486	Heslop Harri-son J W 26589	
Hadders A 31260	Hannah J A 33652	Ebert M 32326	Heide R von der 31658	Hesmer H 26097	
Haddon E 32914	Hannay C L 31759	Hartard 32326	Heidebrecht A A 30111	Hespeler R 30578	
Haddox C H 26882	Hannon C I 26366	Hartel O 28408	Heidebrecht A A 30132	Hess G 30167	
Hader R N 32741	Hanrahan F J 28546	Hartmair V 27650	Heidebrecht W 31700	Hess H 26234	
Hadorn H 31431	Hansbrough J R 28512	Hartsough G R 28883	Heidenreich 31165	Hess P F 29282	
Hadorn H 32537	Hansel W 29280	Hartsough G R 29519	Held E 31866	Hessig H v 30387	
Hafdaal A 33361	Hansen A 28984	Hartsuijker K 26368	Helman V 29890	Hesse G 30579	
Hafenrichter A L 32767	Hansen E N 29378	Hartung E W 30697	Helman-herberg L 27306	Hester E 33302	
Häfliger E 26358	Hansen H P 26018	Hartvig Larsen P 33393	Heinrich K 28626	Hester J B 27818	
Hafner R 32381	Hansen M F 29559	Harvey C 27107	Heinrich W 28548	Hetterich G 28613	
Hagedoorn A L 29998	Hansen M F 29826	Harvey J R 29780	Heinz L 31554	Heuvel 28585	
Hagedorn D J 26520	Hansen R M 27475	Harvey N 27108	Heinze E 29959	Heuser E 28766	
Hagedorn D L 26521	Hanson C H 26394	Harwell E M 31470	Heisley M F 28348	Heuser G F 29705	
Hagemann P 32671	Hanson E W 26521	Hasegawa K 30782	Heit C E 26780	Heuser G F 29723	
Hagenmüller W 33136	Hanson H L 32673	Haselmann H 32050	Heit C E 27480	Heuser O E 33491	
Haggard G W 31388	Hanson J 28547	Haskell G 26777	Hellman N N 31433	Hewetson C E 28356	
Hain K 31261	Hanten H 27980	Haslam B E 27109	Helm E 31638	Hewetson C E 28517	
Haines F 29557	Happ 28915	Hasman M 26778	Helversen F D 28765	Hewetson R W 29283	
Halden W 33555	Happle L M 33331	Hastings L 26779	Hemming F 30165	Hewitt E J 26781	
Hale F 30081	Harada M 30285	Hastings L 32768	Hempton Y de 31537	Hewitt J L 26098	
Hale M 29639	Harakis M 28180	Hattori S 26153	Hemsley J A 29703	Heydon G A M 30751	
Hale M 29702	Harant H 30980	Hauer E 27982	Hende A van den 27856	Heydt G 31902	
Hale M 29866	Harari S 29863	Hauff R 28445	Henderson B W 29379	Hickin N E 31076	
Hale M 29867	Hardesty J O 28239	Haun T H 27897	Henderson H B 31701	Hicks J S 29876	
Hale M 31163	Hardin C M 33363	Hausman E H 30577	Henderson J A 29281	Hicks J R 28842	
Hale M 32677	Hardy J 27476	Hausner F 27230	Hendricks R H 26867	Hicks J W 31813	
Hale M E Jr 26184	Hare W W 26566	Hausner F 27362	Hendrickson R 32247	Hicks S 29877	
Hall A V 30488	Harker J E 31075	Hausser K 27983	Hendrickson F L 27774	Hidalgo Fernán-dez-Cano L 31568	
Hall B M 26681	Harkness W D 28593	Haver C B 33173	Hendrickx H 31901	Hide R H 28424	
Hall I F 32965	Harlan J R 26019	Havighorst C R 32897	Hendrickx H 31901	Hiestand W A 30168	
Hall I F 32966	Harnisch O 26588	Haviland P H 28098	Hendrix R L 33275	Higgins C C 29987	
Hall M A 28581	Harnisch O 30693	Hawken T 32769	Henkels P 28986	Higgins F H 31204	
Hall M D 32566	Harnly M H 30694	Hawkes A D 26092	Henning J 30386	Higgins L G 30959	
Hall R A 31164	Harnly M H 30695	Hawkes A D 26093	Hennion C 29550	Hilbert F L 28796	
Halle J 26983	Harlo M 29869	Hawkes A D 26094	Henriques E 29312	Hilbert F L 28797	
Hallemans A 26232	Harp H P 27479	Hawkes A D 26095	Henriques E 29371	Hilbert G E 31555	
Haller H L 30241	Harper J A 29560	Hawkes A D 26143	Henry A W 26233	Hilbert G E 31556	
Halley R J 29370	Harper J A 29870	Hawkes J G 27651	Henry J N 29782	Hilborn M T 26235	
Halliday D 33556	Harper J L 26367	Hawkey K J G 29871	Henry L K 26062	Hilborn M T 26369	
Halliday M 31032	Harper R 31842	Hawkins B 30061	Henry M G 27481	Hilbrich P 29781	
Halliday W E D 28344	Harrington L 27477	Hawley J E 32587	Henrikson K 32137	Hildebrand E M 26245	
Hallock H 28407	Harrington L 29540	Hay R 32301	Henschke M 27259	Hildebrand F H 28357	
Halloway T E 28213	Harrington M M 33527	Hayakawa M 29590	Hensen A L 31357	Hildebrandt A C 26782	
Halls E E 31504	Harrington N H 29044	Hayashi S 30782	Hensler K 31812	Hilditch T P 32583	
Haltmeier O 32382	Harrington R 27477	Hayashi T 30285	Hensler K 31867	Hilditch T P 32760	
Haltmeier O 32383	Harris E C 30561	Haycock A H 28625	Herder P C den 31760	Hilf H H 28358	
Hamblin S F 27472	Harris E E 28942	Haydak M H 30385	Herford G V B 30243	Hilgeman R H 26848	
Hamburger H 29109	Harris Mrs E R 27473	Haydon G 30000	Hergueta Navas L 31298	Hilgeman R H 30580	
Hamburger H 33362	Harris J 29110	Hayes H K 33620	Hering E M 30166	Hilger R 29641	
Hamilton A 30489	Harris J 33311	Hayes M L 30958	Herman H A 29115	Hill E C 32166	
Hamilton F L 29559	Harris J O 31432	Hayes W B 27231	Herman H A 29119	Hill E C 32299	
Hamilton H G 32208	Harris J T 32516	Haynes H J 31240	Herman H A 29380	Hill G A 32165	
Hamilton H L 29819	Harris L Jr 30957	Hays F A 29640	Hermelin A A 29111	Hill G R 26867	
Hamilton L H 29091	Harris L E 27086	Hays F A 29781	Hernández Morales F 30772	Hill R 29284	
Hamilton L H 31297	Harris L E 30023	Hays F A 29872	Hernández-Xolocotzi E 26126	Hille Ris 30820	
Hamilton R D 27721	Harris M 32049	Hays F A 29873	Hernando V 27847	Lambers D 30921	
Hamilton W M 33169	Harris P L 33551	Hays F A 29874	Hérout V 29505	Lambers D 27985	
Hamlin J P 33526	Harris R W 32227	Hays J G 29187	Herreid E O 31943	Hilton R J 27323	
Hammant G 32458	Harrison A 30749	Hayward A 31699	Herrera 27984	Himebaugh K 29381	
Hammond A E 27473	Harrison A L 26776	Hayward J 27110	Vasconez C 29112	Himes M H 26916	
Hammond J 28882	Harrison B J 30636	Hazlewood A 33067	Herrick J B 29112	Himmelfarb D 32052	
Hammond J Jr 29620	Harrison C M 27104	Heady E O 28181	Herrick L W Jr 29875	Hinchcliff K H 31282	
Hammonds C 33169	Harrison C M 27105				
Hammons R O 26724					



	Item		Item		Item		Item		Item
Hinkle D A	27986	Holmberg C B	32285	Hou H Y	26919	Hurwitz S	27114	Institute for	33410
Hinton J J C	32378	Holmes E	27723	Hough L F	26441	Hurwitz S	27115	Education by	
Hinton T	30699	Holmes E	30246	Hough L F	26487	Hurwitz S	27729	Radio	
Hipólito O	29262	Holmes E L	30247	House C T	32904	Hus P	26238	Institute of	28791
Hipólito O	29285	Holmes E L	30248	Houssiau A	32815	Huston J J	27919	Paper Chemis-	
Hipólito O	29462	Holmes E L	33587	Hout A van	28988	Hutchings R S	29883	try	
Hipólito O	29772	Holmes F O	26523	Hout F van	30062	Hutchinson C R	33445	Instituto do	32799
Hipólito O	29790	Holmes H C	33364	Houtte A van	33492	Hutchison S B	28313	Acucar e do	
Hiratsuka Japan	27232	Holmes J	29960	Howald O	33242	Huter	27216	Alcool	
Government		Holmes J H	29463	Howard F L	26353	Hutt F B	29884	Instituut voor	26860
Horticultural		Holstein-Frie-	29113	Howard J	27987	Huttel W	30880	Rationele	
Experiment		sian Association		Howard W E	27113	Hutton J	29643	Suikerproductie	
Station		of America		Howden A S	29961	Hyatt G	29114	Inter-American	31640
Hiroshi T	29286	Holt E C	27112	Howe H A	28726	Hyatt G Jr	29165	Institute of	
Hiroshima N	31358	Holzer W F	28767	Howe M A	32670	Hylander F	28864	Agricultural	
Hirsch A	32674	Holzheu H	31903	Howell H A	28667	Hylander H	26102	Sciences	
Hirsch D E	31814	Homan J L	33070	Howell J T	26100	Hyler J E	28615	International As-	31706
Hirsch W Z	33447	Homb T	29189	Howell J T	26101	Hyler J E	28627	sociation of Ice	
Hirt H	27260	Homes M V L	26783	Hoves F N	26919	Hyler J E	28628	Cream Manu-	
Hirt R R	26236	Honey E E	26826	Hoyer O G	31231	Hyler J E	28623	facturers	
Hiscro E R	31761	Hönicke K	28383	Hoyman W G	26524	Hyler J E	28724	International	31707
Hisserich	31186	Hönl	31956	Hrubesky C E	28827	Hyler J E	28725	Association of	
Hitchcock A S	26099	Hönl	32476	Hsu P C	33530	Hymas T A	29803	Ice Cream	
Hitchcock H B	29878	Honold E	32114	Hsu T C	30735			Manufacturers	
Hitchner L S	30244	Hönsch W	31557	Huang K C	29451			International	33072
Hites B D	32384	Hood E G	31904	Hubbell D S	27831			Bank for Re-	
Hixson E	30245	Hood H P	31704	Huber B	27772			construction and	
Hjelm L	32914	Hoogstraal H	30762	Hückstadt J	31639			Development	
Hoak C M	27482	Hooker A L	26371	Hückstadt J	31905			International	30169
Hoare E R	31262	Hooker L W	28571	Huddleson I F	26785			Congress of	
Hobart O F Jr	26350	Hooker W J	26372	Hudson A G	33323			Entomology	
Hobbs G A	26522	Hooker W J	26373	Hudson J R	30119			International	32989
Hobson K	33068	Hoover D A	32675	Hudtloff M J	31558			Labor Con-	
Hockensmith	28182	Hope H W	32053	Huebner R J	29290			ference 33d	
R D		Hopf L	32386	Huebner R J	29300			Geneva 1950	
Hockett R C	33557	Hopf L	32387	Huet M	29018			International	32989
Hodgdon A R	26141	Hopf L	32388	Huff C G	29785			Labor Off	
Hodge C H	31295	Hopf L	32389	Huff C G	30762			Iofan M	28385
Hodges E M	29188	Hopf L	32390	Huff C G	30763			Ireland A P	32615
Hodges H G	29287	Hopf L	32391	Huffman G H	33071			Ireland Dept of	33549
Hodges H G	29288	Hopf L	32392	Huffman R E	28184			Local Government	
Hodgkin E P	30778	Hopf L	32393	Hufnagl H	27724			and Public	
Hodgson B	33171	Hopf L	32394	Hufnagl H	28409			Health	
Hodson E A	27111	Hopkins B A	31019	Huggart R L	32299			Irwin M R	29629
Hoehstetter H	31384	Hopkins D P	28248	Huggins H C	30960			Irwin M R	29886
Hoefle C	30036	Hopkins F R	32286	Hugh J F du T	32274			Irwin M R	29887
Høeg O A	26063	Hopkins G E	32054	Hughes C J	29881			Isaacson M R	33303
Hoekstra P	29879	Hopkins H H	27148	Hughes D L	29786			Isachenko Kh M	28486
Hoerlein A B	30117	Hopkins S V	32055	Hughes M H	30218			Isenberg F M R	26787
Hofbauer J	31915	Hopp H	27838	Hughes W F	28099			Isgur B	31098
Hofer	31870	Hopp H	32014	Hughes W G	28339			Ishibashi Y	27832
Hofer M	33441	Hoppe P E	26237	Huglin P	26506			Ishihara S J	29770
Hoff A v	26618	Höppner R	32210	Hull A C Jr	28485			Ishihara T	30962
Hoffman R L	30477	Horber E	30581	Hull F E	29584			Ishikura H	30250
Hoffmann O	28247	Horber E	30700	Hull F E	29607			Ishitani R	29590
Hoffpaulr C L	32396	Hordern R H	28614	Hull F H	27180			Islip H T	31641
Hoffpaulr C L	32616	Horel J	27775	Hull J E	30491			Islip H T	32132
Höfler K	26619	Horton A	30582	Hülphers G	29291			Islip H T	32572
Hofstee E W	33069	Hormann H	31077	Hulphers G	31799			Islip H T	32573
Hogan J T	28722	Horn G	31345	Hulphers G	31906			Islip H T	32574
Holcombe R A	28863	Horn N L	26374	Hume C W	29464			Ison J	31859
Holdeman Q L	26370	Horne M K Jr	32056	Hume M E	27481			Israelsen O W	28100
Holdeman Q L	26565	Horner F	29642	Hume R M	28763			Issler A R	32990
Holec E	31056	Horsfall J G	26375	Humes A G	30492			Istas J R	28846
Holland M G	29243	Horst E G	28916	Hummel F C	28425			Itagaki K	29292
Hölldorfer K	30881	Horst M G ter	31767	Hungate R E	30037			Itganova O N	26376
Holle Müller	29880	Horstmann H	26064	Hunold G A	30249			Itššovskij M	27777
H v		Horton R	32676	Hunt R	27215			Iuul N	32059
Holleman L W J	32135	Hosking Z	31780	Hunt R	27988			Ivannikov L N	29542
Hollenbeck C M	32385	Hoskins C M	28531	Hunt W H	32593			Ivanov M M	28594
Hollis J P	26917	Hosmer R S	28302	Hunt W J	30063			Ivasyshin S N	28446
Hollowday E D	30490	Hosoda T	29561	Hunt W J	30701			Ivers S W	31247
Holly Society of	27483	Hosoya H	30118	Hunter G J E	31907			Ives N C	32395
America		Hosoya H	30782	Huntington L L	27485			Ives P T	30702
Holm P	28984	Hosoya S	26020	Hurd L M	29882			Ivey L J	27060
Holman C W	31703	Hottenstein W L	28183	Hurst F	27725			Ivonin F M	29520
Holman S	29289	Hottes A C	26784	Hurst F J	32057			Iwasa S	30119
Holmberg C B	29059	Hottes F C	30815	Hurst W M	31977			Iwata T	30963
		Hottinguer H	26663					Iwata K	30882
								Iyengar R L N	33685
								Izifimskij I P	28315
								Izumrudova T V	28727



	Item		Item		Item		Item		Item
Jachendoff R	32061	Jeffery G M	30764	Jones M A	27779	Kannenbergh H	27989	Kemmerer A R	29733
Jacinto Burgos J	26991	Jellinek V	28989	Jones R E	31301	Kannenbergh H	33305	Kemp H S	27364
Jachendoff R	32060	Jenkins A E	26206	Jones R E	32681	Kano R	30779	Kemper H E	30035
Jackson B B	26992	Jenkins I	32931	Jones R W	27495	Kano R	30781	Kemphorne O	31780
Jackson E L	32879	Jenness L C	28773	Jones S C	30251	Kano R	30782	Kendall F	27502
Jackson G A Jr	32691	Jennett G N	28160	Jones W D	31264	Kapelevich Z V	28689	Kendall L	27502
Jackson J R	31908	Jenny G	27117	Jonghe P de	27859	Kaplan N O	26927	Kendrick J	30586
Jackson N E	27920	Jensen C O	26787	Jonke H	32551	Kapp M	32397	Kendrick J B	26383
Jackson R B	29512	Jensen C O	26920	Jonsson B I	31196	Kapur A P	30964	Kendrick J B Jr	26527
Jackson W F	29591	Jensen E A	32599	Jordan D C	27880	Kapustinski A F	26022	KenKnight G	26528
Jacob A W	32943	Jensen H	27483	Jordan H E K	31078	Karabag T	31036	Kennard D C	29789
Jacoboni N	26788	Jensen H L	28260	Jordan H L	28102	Karakul' A P	27777	Kennard D C	29894
Jacobs	31263	Jensen H L	31598	Jordan J V	28018	Karasawa K	26622	Kennard W C	26893
Jacobs F	33315	Jensen K	30391	Jordan R	30392	Karlin S A	26156	Kennedy A H	29533
Jacobs W	31033	Jensen L A	29592	Jörgensen L	28766	Karnaukhov B G	27990	Kennedy A H	29533
Jacobsen A P	31471	Jensen R	29265	Jprstad I	26185	Karpoff E	32682	Kennedy J S	29534
Jacobsen H	27061	Jensen T S	33493	Joset C	31407	Karzon D T	29742	Kennedy J S	30823
Jacobsen H	32062	Jensen V S	28512	Joshi R H	27860	Kasbekar G S	28756	Kennedy J W	30103
Jacobsen H	32063	Jeremy E	27653	Joss A	33304	Kasco Mills	29890	Kennedy V D	33178
Jacobson D	29465	Jesness O B	33620	Joubert F J	32163	Kassel	30705	Kent G	30765
Jacobson K H	32501	Jessen K	26017	Jougan E	26791	Katalymov M V	27991	Kent N L	32378
Jacoby T	26770	Jewitt T N	27858	Jougan E	27496	Kato M	30706	Kentucky Engineering Experiment Station	32547
Jacoway T H	26377	Johannes H	26021	Jourdain E	32246	Kato M	30822	Kenyon B W	33140
Jacquain D	31766	Johannes D A	26790	Jourde P	27307	Kaufman V F	32290	Keplinger J A	26798
Jacques-Félix H	26065	Johansen D A	26620	Jourde P	30393	Kaufmann W	31920	Ker J W	28427
Jacquintot R	30389	Johansson I	29385	Joyce F	27120	Kauppi T A	31560	Kerharo J	27753
Jacquintot C	26789	Johndrew O F Jr	32677	Joyce J	31205	Kaussmann B	26623	Kermann K	31126
Jaeger P	26590	Johns C K	32678	Jude A W	29432	Kawase I	27121	Kern F	30587
Jaeschke A	28820	Johns-Manville Corporation	28101	Judd W C	26066	Kay K	30253	Kern F	30588
Jaeschke A	28821	Johnsen H O	31300	Judy W	29506	Kayeses	28991	Kern J D	28857
Jaggi E	33073	Johnson A	33276	Jukes T H	29708	Kaylor J F	28411	Kern W	27324
Jahan P	29448	Johnson A H	31817	Julén G	26684	Kayukova M V	28616	Kernkamp M F	26384
Jahn E	30170	Johnson A T	27490	Jung J R Jr	32090	Kearl C D	29891	Kernkamp M F	26385
Jahr G W	27116	Johnson B C	29756	Jung K F	31206	Kearl C D	33243	Kerr J	32816
Jain A C	26378	Johnson B C	30127	Jungkunz R	31431	Kearns H G H	30251	Kershishnik P F	27503
Jain A C	26379	Johnson D G	33074	Jungkunz R	32597	Keaton H L	28770	Kersting	26239
Jain L C	27857	Johnson E A	29706	Junqueira J F D	29562	Keck D D	26592	Kersting	26240
Jain S K	26124	Johnson E A	32679	Jurén L	31521	Kedoshia R	28261	Kessler H	32291
Jakob R	31125	Johnson E A	33446	Jurgens J F	32071	Keefe W B	28749	Kester W O	28993
Jakob R	31382	Johnson E L	29707	Jurgens J F	32396	Keegan C F	27654	Kesterson J W	32247
James H B	33172	Johnson E P	29788	Jurisch A	28288	Keenleyside I	28518	Kesterton W	33587
James H C	31472	Johnson E S	28744	Juscáfresa B	27361	Kehr A E	26685	Kettlewell N H	30395
James M O	26380	Johnson F	26279	Justice O L	27176	Keiser F	30707	Keune	31869
James N D G	28410	Johnson G A	31241	Justice O L	32770	Keister M L	30671	Keune	33244
Jamison V C	27842	Johnson G L	33173	Juve A E	32738	Keith E W	28771	Keune O	31409
Jamnback H A	30492	Johnson H W	26382	Kaan H W	30172	Keith G W	26243	Keune O	32558
Jandt C H	32256	Johnson J	26514	Kaay F C	29097	Keitt G W	26686	Key K H L	31037
Janeck H	27486	Johnson J	26515	van der Kabanov P G	28405	Keitt G W	26686	Khalifman I A	30396
Jang R	32170	Johnson J	26525	Kabozov S M	30096	Kelbert D G A	27655	Khan A D	27861
Jannin G	29384	Johnson L P V	26683	Kác V	32289	Kelenyi G P	26679	Khan A D	28185
Jannone G	30703	Johnson M	31590	Kachroo P	26621	Kellenberger F S	27498	Khan D V	27862
Jannone G	31034	Johnson M M	30812	Kadambi K	28359	Keller H	29892	Khan M Z	29593
Janowitz H D	29440	Johnson M P	27491	Kadambi K	28426	Keller H	31703	Khan N A	32603
Janse J A	27487	Johnson M P	27493	Kadowaki S	30650	Keller H	32528	Khan R	26624
Janse L C	31868	Johnson M P	27491	Kaduskar S P	29117	Keller J	29893	Khanna K L	32917
Jansen E F	32170	Johnson P C	33174	Kaemmerer K	29293	Keller J C	32602	Khristeeva L A	26796
Janson B F	26381	Johnson P C	33365	Kaemmerer K	29294	Keller J R	26526	Kiefer R M	31561
Janss R	30120	Johnson R G	27118	Kahn T	31787	Keller J R	32896	Kiefferle F	31909
Janssen	32288	Johnson R G	27119	Kahnsnitz	33175	Kelley G W	29559	Kiessling C	32918
Jany E	30883	Johnson R P A	28693	Kalbfeisch W	31207	Kelley J N	31473	Kiff P R	32976
Jany W	32139	Johnson S E	31559	Kalchschmidt H G	28990	Kelley J N	32213	Kihss P	31410
Japan Dept of Agriculture and Forestry Secretarial Investigation Dept	32924	Johnston R L	30110	Kalinkevich A F	26993	Kelley M H	30785	Kikuchi M	27992
Jarrett G	29888	Johnston T E	29889	Kal'm P	33176	Kellogg C E	30394	Kilgore B	29120
Jarrije J	30584	Johnston W B Sr	28595	Kamat M N	26191	Kellogg C S	31408	Killing G B	27993
Jarry-Desloges R	27488	Jolivet P	31035	Kamath N R	32600	Kelly E	29467	Kilpatrick R A	26386
Jarvis C S	28697	Jonasson O	27778	Kammerer E L	27497	Kelman A	26794	Kimball M H	26797
Jarvis D C	30390	Jones B M	30494	Kammerman R	32963	Kelser R A	28992	Kimmins D E	31080
Jarvis F M	32477	Jones C H	29198	Kampschmidt R F	29118	Kelsey J M	30585	Kimura M	30782
Jaujou C	30704	Jones C H	32140	Kampschmidt R F	29119	Kelsey J R	27493	King A	30001
Jaume J	29013	Jones C R	32362	Kandler O	26792	Kelsey R H	32756	King A S	28129
Jaumes L	32173	Jones C R	32378	Kandler O	26793	Kelsheimer E G	30255	King B	29433
Jayne G	28769	Jones D W	29188	Kane J G	32601	Kelso M M	32915	King C G	33528
Jeannel R	30171	Jones E	29116	Kaneko T	29561	Kelway C	27500	King F C	30256
Jeekel C A W	30493	Jones E W	26155	Kanervo V	31079	Kelway J	27501	King F W	28822
		Jones E W	26781	Kangas E	30252			King G H	26994
		Jones G W	31423						
		Jones I D	32281						
		Jones L M	29466						
		Jones M	32680						



	Item		Item		Item		Item		Item
King G H	33179	Knöppel J	26103	Kramer A	31434	Kuiter L C	31081	Lal G B	33559
King H	30965	Knowles H	27506	Kramer H A	31232	Kulfabko E S	33622	Lal K B	30259
King J	30001	Knowles R H	27507	Kramer O	28617	Kuliev A M	27781	Lal K B	31038
King J L	27726	Knowles T	29895	Kramnik R L	32993	Kulikova M F	28109	Lal K N	26026
King N J	27863	Knox R G	29091	Kranick F N G	31127	Kulkarni N B	26036	Lalor R J	29529
King T	31333	Knudsen A F	31813	Krasnokutskaja	26951	Kulkarni R K	32600	Lamb G N	28466
King T H	26319	Kobel F	27261	Gosudarstven-		Kulkarni Y S	26420	Lamb R	32992
King T H	26798	Koch E J	26950	nafa Selektšion-		Kulkarni Y S	26493	Lamb R C	27326
Kinnersley D J	33075	Koch J	31543	nafa Stanfsifa		Kulkarni Y S	26497	Lambertmont F	30260
Kirby A H M	30268	Koch L F	26157	Krásný F	29594	Kullenberg B	26801	Lambion R	31680
Kircher M	27504	Koch M	32683	Kratzer F H	29709	Kulp D A	28477	Lamborn O H	32821
Kircher R	27504	Koch W	27508	Kratzl K	28948	Kulzer H	30592	Lamborn & Co	32822
Kirichenko G A	29115	Kocharov S S	28920	Kraus J	33451	Kume S	30766	Lambou MG	32599
Kirk D W	33658	Kochkar' N T	28487	Krause H	33078	Kummer F A	32576	Lambrecht J A	27726
Kirk H	29468	Koehler B	26389	Krauss G A	28445	Kummer H	30121	Lamego A	33369
Kirk H B	30397	Koehler W	28316	Kravtšev B I	26800	Kummer U von	29563	Lämmle G	32528
Kirk W G	29121	Koelensmid	31562	Kremen S S	32502	Kummer U von	29564	Lamont N	30968
Kirk W G	29188	W A A B		Krenn J	31167	Kundrat W	31912	Lamont P	31391
Kirkor S	30398	Koenig M L G	26925	Krepela W	31259	Kundu B C	27062	LaMothe G E	28388
Kirksey G	28994	Koffsky N M	32946	Kretovich V L	32403	Kung L C	33530	Lamounier R D	29796
Kirksey G	28995	Kofranek A M	27505	Krick I P	33659	Kunin V N	28591	Lampe H J	31645
Kirksey G	28996	Kohler C E	30684	Kriebel M	31128	Kunkel E	31353	Lamphier M	32771
Kirkwood W P	33620	Köhler E	26529	Kriebel M	31208	Kunkel L C	26530	Lampitt L H	31435
Kirsch E	30495	Köhler H	26241	Kriebel M	31209	Kunkel R	28018	Lampitt L H	31435
Kiselev M A	28447	Köhler M L	31187	Kriebel M	31210	Kuntara W	27772	Lancaster B F	27512
Kitajima K	27656	Kohls L	29157	Kriebel M	31211	Kuntz J E	26302	Lancaster E B	32567
Kitazawa G	28847	Kohls L	32684	Kriegel W	26172	Kuntz J E	26391	Landblom N	32301
Kitchen C W	32141	Kohr L A	31819	Kriesel H C	31820	Kuntz R E	29621	Landesverband	30261
Kitchen J B Jr	29190	Kojima T	33621	Krijthe N	26889	Kunz H	32552	der Obst- und	
Kitching H W	28103	Kok J W	28105	Krishna P G	32819	Kunze R	32214	Gartenbauver-	
Kite G D	32881	Kokot D F	28106	Krishna Murti	32169	Kupka E	28668	eine in Hessen	
Kizfurin A D	26799	Kolachov P	32415	CR		Kurenšov A I	30767	Landis C C	27865
Kjellander E	28997	Kölbach M G	32400	Krishnamachar	31580	Kurjana R	30967	Landman O E	26924
Kjellander E	30708	Kölbach W G	32401	V S		Kurth E F	29792	Landon F H	28289
Kjellander E	32292	Koller E F	33449	Krishnamurthy	32628	Kushev V	28845	Landsberg H H	31523
Kjennerud J	26903	Kolubajiv S	30966	RS		Kuster E	33623	Landstrom K S	27124
Klaeboe R	32064	Komatsu N	26020	Krog H	26923	Küst D	29469	Lang F	32404
Klang C A	27325	Kommedahl T	26390	Krombein K V	30885	Küster E	26625	Lange S	32823
Klapp A	28104	Kon S K	31789	Kromdijk G	26025	Küster E	27883	Langenau E E	32595
Kleber W	32398	Kondo Y	29050	Kromdijk G	27510	Kutter F	32293	Langenegger R	33080
Kleczkowski J	27892	Kondo Y	32916	Kromdijk G	27511	Kutter H	30887	Langford G S	30262
Kleemann C W	30399	König E	28513	Krone P R	27995	Kutter R	30174	Langford G S	30551
Klein G T	31166	König E	28647	Krosby P	26996	Kuvaldin B I	28572	Langlet E	29295
Klein G T	31302	König E	28865	Kroulik A	28007	Kuvshinov I	33277	Langlet E	29296
Klein J	30090	Kono T	30589	Kroulik A	31561	Kuwayama S	30709	Langsford E L	33081
Klein R M	26921	Kononova M M	27882	Krug	28549	Kuz'michev A V	29410	Lanham B T Jr	33008
Klein-	28919	Kontunemi T	30173	Krug G	28699	Kuz'mina S S	28894	Lanktree P A D	30969
Hessling P		Konyukhov D N	28616	Kruger G	33366	Kuz'minskij A S	32745	Lannan P T Jr	28925
Kleine-Besten	30884	Koogler J H	27727	Kruger K	33337	Kuznefov M P	30004	Lanza M	33316
Klerk J C de	32065	Koopman C	26995	Kruk H	31911	Kvashne I	29386	Lapin V	31859
Kleff	30257	Koopman C	32402	Kruse B B	31283	Kvasnickij A V	29972	Laplante A	27819
Klimenko G D	30400	Kopetz H	33450	Kruseman G	30886	Kyle L R	31284	Laplante R	32932
Klimmek H	32399	Koppe F	26588	Krutikhovskij	26997	Labbe A	26105	Lapteva K A	32745
Kline L	32673	Köppen A von	28765	V K		Laborde M	27658	Larionov A I	28596
Kling G	31642	Körber	31870	Krutzsch H	27123	Labouche C	29240	La Rivers I	30593
Klinkovitzky S	27657	Korchemkin F I	26922	Krutzsch H	28448	Labriego J	27063	La Rosa W V	31646
Kloepfel R	27198	Korell A	30590	Krylov V N	28387	Labuscagne F J	30004	Larose E	26999
Klomparsens W	26387	Koriäkina A F	27122	Krynen	28750	Lacey J J	30025	Larose E	27996
Klosterman E W	29692	Kormilifsyn A P	30401	Krzywon W	33367	Lacey J J	32542	La Rousselière	27513
Klotz L J	26388	Korn G	31763	Ktitorov P M	29521	Lacey P M C	28726	H de	
Kluger J	31709	Kornev I A V	28159	Kübel F	31522	Lachaupe J	27659	Larrabee E N	29645
Klump B	26023	Kornilova O	31749	Kubišna W	27904	Lackmann H	31641	Larsen J	32559
Kmonitzek	28823	Koroleff A	28386	Kuchinke E	32395	Lackner C E	31843	Larsen O	30175
Knapp J G	33447	Koroleff A	28412	Kück A	26067	LaCoste R	29060	Larsen P B	31761
Knapp J G	33448	Korsun F	28429	Kudriashev S N	27262	LaCoste R	32215	Larsen S T	28110
Knave K	33076	Korzan G E	31474	Kudrjavšev A A	29410	Lacourcière H	31710	Larson E T	28629
Kneer	28467	Koscinski M E	26024	Kudzin S F	28849	Lacrampe-	30402	Larson L	31900
Knight E D	29122	Koshcheev A L	27780	Kuennen D J	30591	Quinta		Larson N G	27000
Knight H H	27505	Koshel'kov P N	27994	Kuestner W	28262	Lacroix J	32920	Larson R H	26467
Knight L J	31197	Kosikowsky F V	31910	Kuffeler	28108	Lacy R C	26186	Larson R H	26531
Knight W H	31359	Kostin N S	28107	V J P de B van		Ladd J M	28751	Larue P	31168
Knoblich	29191	Kotze J J J	30064	Kugler H L	31120	Ladyzhenskaia	26158	LaRue W C	32993
Knodt C B	29192	Kovda V A	27864	Kugler H L	31129	K I		LaRue W C	33279
Knopff	29193	Koyatsu T	29644	Kühnemundt K	29896	Lafon J	26392	LaRue W C	33338
Knopff	31979	Kozo-Poljanskij	26104	Kühner	33368	Laforet H	33079	Larus C T	27514
		B M		Kuhnholz-	26687	Lagerlöf N	28999	Larus J R	27514
		Kraemer J H	28924	Lordat G		Lagos U J A	31130	Lasley J F	30122
		Krafft de Boerio	30065	Kuhns D M	30501	Lahover D	27729	Lassablière P	31531
		C		Kulter L C	30258	Lajote P	27905	Latham B	28450
		Kral F	28993						



	Item		Item		Item		Item		Item
Lathrop F H	26369	Lehmann F	31711	Leyva Alvarado	28648	Loden H D	26690	Lubrano U	32530
Lathrop W H	27125	Lehr J J	27866	M		Lodge F S	28240	Luca F de	27003
Latigo A	29470	Le Hyaric M	29124	Leyvraz H	26224	Lodge F S	28249	Lucadema J	29650
Latimer H B	29471	Leibfried E	32970	Leyvraz H	27365	Lodi Stazione	27128	Lucas A M	29791
Latimer H B	29973	Leibhoff R O	26999	Lezhnev N N	32745	Sperimentale		Lucas D	30976
Latimer H B	29977	Leibovitz A	31039	Lhoste J	31082	di Praticoltura		Ludwig D	30597
Laughnan J R	26688	Leibundgut H	28468	Lieberman J	32717	Loeffler E	29770	Ludwig H F	28268
Laumont P	26952	Leifert D	31476	Lienart J M	27781	Loegering W Q	26397	Luecke R W	30092
Lauprecht E	29123	Leitao A B	28489	Liersch J E	28390	Loegering W Q	26445	Lugovskoi M V	31361
Lauridsen C P	31841	Leitao M	29102	Liese J	28700	Loginov L Z	28449	Lukanov M A	31266
Lavallard M L	27729	Leite I da C	30824	Liese J	28926	Logincheva	27366	Lukas H	29651
Lavezzini A	26242	Leleup N	30769	Lieto C	31383	A G		Luk'fanov A D	31132
Lavezzini A	27327	Leleup N	30769	Lifquist R C	33532	Lohara K S	28908	Lumbra T G	32217
Lawless D K	30762	Leleup N	30769	Liggett K J	33372	Lolkema H	31926	Luna Ercilla	27064
Lawrence N S	26925	Leleup N	30769	Likhachev G N	28511	Lollar R M	32501	Luna R F	32068
Lawson J R	29297	Lellèvre E	27233	Lillieholm W C	32264	Lollar R M	32502	Luna C	31040
Laycock G	29897	Leleux P	27000	Lillie R J	29710	Lollichon M	27217	Lund R G	32069
Lazar M E	31545	Lemaitre A	32806	Lillie R J	29711	Loma J L de la	28922	Lundback S V	30266
Lazarevich I I	28489	Le Marchand S	30970	Lillie R J	29711	Lomax E B	29901	Lundbergh H	28670
Leach D	26689	Le Marchand S	30971	Lilly V G	26813	Lombardo U	32295	Lundblad B	26029
Leach J G	26393	Leme Junlor J	33561	Lilly V G	26813	Lombarts J	27329	Lunder R	30405
Leah E	28069	Lemler B	29125	Lima A D F	26395	Lombarts J	27521	Lung C	32070
Lear J E	32946	Lemmon R S	27518	Lima A da C	30821	Lombarts J	27521	ungo A del	32604
Lease E J	33559	Lemmon R S	27519	Lima G de	26953	Loncin M	31765	Lunninck	28317
Lebacq L	28551	Lengemann	29211	Lima H	32825	Loncin M	31765	Freiherr von	
Le Beau D S	32744	Lengsfeld J	31265	Limstrom G A	28455	Loncin M	31767	Lunninck Frei-	33373
Le Beau O R	31475	Lennette E H	29298	Lln K S	27199	Long F R	26107	herr von	
LeBeau O R	33452	Lentz A N	28415	Linares P J	27632	Long J	27002	Lunt H A	28000
Leben C	26243	Lenz A	28413	Linares	28803	Longhurst S C	28555	Luntz H	32773
Leben C	26532	Lenz L W	26626	Sanchez Z		Lonquist J H	26974	Luoto L	29300
Lebled B	30742	Leon J	33621	Lind A J	29647	Loomis W D	26932	Lupo V	30598
Le Bras J	32746	Leon J P de	29299	Lind C	31765	Loos E	30973	Lupo V	33625
Lebrun H	31131	Leon J P de	30038	Lind J	30177	Loose H	32216	Lüscher M	31083
Leclerc M	29565	Leon Ortega M	30263	Lindberg H	30177	Loosli J K	30091	Lush J L	28884
Leclercq J	30591	Leonard J	28793	Lindblom N	31304	Lopes H de S	30713	Lusis	30497
Leclère A	28552	Leonard J P	28669	Lindgren C C	26628	Lopez F B	27921	Lusis L E	27329
Leclerc A	28553	Leonard L G A	32553	Lindgren C C	26628	López Guillén J	26028	Lutz J M	32218
Lecomte	31411	Leopold O	31506	Lindemann E	31436	Lordello L G E	30496	Lutz R	32405
Lecrenier A	32291	Lepesme P	30176	Linden A C	31437	Lorenz von	28291	Luyken R	33533
Leddett P	32821	Lepesme P	30595	Lindholm R	30404	Liburnau H		L'vova I N	27004
Lederer E	32503	Lepidopterists'	30972	Lindqvist R	28114	Ritter		L'vovich M I	28532
Ledesma N R	27782	Society		Lindsey C E	31565	Loritz J	30974	Lybrook P	30142
Ledochowski	26802	Lepigre A L	30264	Lindsley C H	32067	Los Angeles	32480	Lybrook P	30143
J S M		Lepnova M I	26803	Line Elevators	27730	County Cali-		Lybrook P	30144
Lee D H K	29000	Leporati E	30403	Farm Serv		ifornia Live-		Lysenko T D	28490
Lee F A	33560	Leraillez L	31911	Lineham G E K	31170	stock Dept		Lysikov V N	27129
Lee F P	27516	Leren G	31099	Lineweaver H	32170	Los Angeles	28519		
Lee G F	33494	Le Ricolais R	28706	Lineweaver H	32673	Dept of			
Lee J K	28111	Lerner I M	29646	Ling L	26396	Foresters and			
Lee J M	29251	Lerner I M	29652	Linskens H F	26901	Fire Warden			
Lee J van der	32186	Le Roi D	31915	Lipka W	28586				
Lee S	27199	Lerouxel A	33370	Lipka W	28701	Losev I P	28727	Maas W K	26691
Lee T T	27200	Leroy A	31712	Lipka W	28867	Lotmar R	30975	Maass	33317
Leech R S	31385	Leroy A M	28921	Lips H J	32529	Lotz	31845	MacAloney H J	28512
Leenheer L de	27997	Leroy A M	29898	Lips M	30768	Louis R	30265	McArdle A A	29902
Leenheer L de	27998	Leroy A M	31981	List G	31916	Louis-Marie P	26109	McArthur W C	27202
Leeper H M	32906	Leroy A R	33371	List G G	28290	Louis-Marie P	26109	McBride C G	31861
Lefebvre P H	31505	Leshner S W	30711	Littardière R de	26106	Louis-Marie P	29001	McCain D C	28001
Lefevre G Jr	30710	Lesperance R	27126	Littlefield J J	27874	Louisiana Dept	33588	McCall J A	33673
Legeay G	29277	Lesperance R	28230	Littfield J J	27520	of Agriculture		McCall E R	32071
Legendre G	31303	Lesperance R	33082	Litvinenko A N	33667	and Immigra-		McCalla A G	26246
Leggatt C W	32772	Lester J	31100	Livanov K V	26805	tion		McCallan S E A	26248
Leghis L M	27263	Letellier M	28551	Livanov K V	26806	Louisiana Dept	33540	McCallister K J	31477
Leghis L M	31169	Leukhina T A	28476	Livanov K V	26954	of Education		McCallum H A	30267
Legrand D	27783	Levaditi C	26027	Livet L	27127	Louvain P	27264	McCallum H A	31713
Le Grand M	31741	Levi S R	28112	Livet L	29648	Louvain P	27266	McCann L P	29126
Le Graverend J	27517	Levi Castillo R	30770	Liveston A L	29899	Louw D J	30004	Maccanti M	28070
Legros R	26993	Levin I	28263	Livingston J E	31965	Louw J G	29186	McCay C M	29472
Legros R	27996	Levin M	30712	Livingstone B J	26807	Louw J G	30029	McClarren J K	29381
Le Guen A	31746	Lewis A J	26394	Ljusterdal E	26187	Loveday P M	30748	McClary C F	29652
Legueu F F	33280	Lewis F H	26533	Lloyd E A	29900	Lowdermilk	28115	McClellan W D	26247
Lehker G E	26209	Lewis H	26627	Loads F W	27660	W C		McCleskey O L	30771
Lehmann	28389	Lewis J	28773	Lockard C R	28573	Lowgren G	28345	McClure T T	26398
Lehmann A	32459	Lewis J C	28113	Lockard C R	28827	Lowrey G W	27999	McCoach H J	26399
Lehmann E	32398	Lewis N W	33281	Lockenvitz K	29643	Lowery O H	31360	McColl B J	28597
		Leyendecker	26308	Lockwood S	26244	Lownsbury B F	26567	McColloch C L	32531
		P J Jr		Loesin C L	27201	Lownsbury J W	26567	McCollum W H	29595
		Leyva Alvarado	28618	Loden H D	26245	Lowry O J	27727	McCollum W H	29767
		M				Lowry R K	29507	McComas E W	29387
						Lozovoy D I	30596	McCombs L	27785



	Item		Item		Item		Item		Item
McConnell N C	28904	McLean R A	32507	Maltais J B	30792	Marsh C	26251	Matiesen D	31649
McCoy H B	33083	MacLennan I S	32532	Malucelli P	31057	Marshall B	32995	Matkin T D	32142
McCraine S E	29210	McLeod D	33084	Malushko V	31917	Marshall C	28318	Matos G	31306
McCrea W Jr	31233	McMartin W	33306	Man T J de	31984	Marshall E	30600	Matrone G	27893
McCredie R R	29653	Macmillan D M	29129	Manalili F	29490	Sir G A K		Matson E E	28470
McCulley R D	28469	McMillen J M	28649	Mancini M	26031	Marshall W	31364	Matt C	29044
McCullough N B	30123	McMillen J M	28654	Mandel J	27833	Marshall W H	32774	Matthes A	32160
McCullough W B	32406	McMillen R D	28186	Mandel P	32504	Marsily E de	33087	Matthews D L	27133
McCurdy J A	31362	McNally J A	28598	Mandru J E	29747	Marston H R	28925	Matthews E M	32882
McCutcheon J W	32481	McNeal X	31212	Manes A	32828	Marte	33377	Matthews P	29905
McDermott N	27661	McNew G L	26248	Mang J	29389	Mårtensson O	26160	Matthews W S A	31641
McDonald B A	31132	McNichol H L	29543	Mang J	28702	Martimo E	29390	Matthews W S A	32572
McDonald C W	30066	McNichol H L	29541	Mangan J L	32296	Martin A Jr	30888	Mattoon H G	26111
Macdonald M D	28828	McNulty G	33258	Mani V S	26719	Martin A Jr	30889	Matuda E	26112
MacDonnell L R	32170	Macola P	28924	Manley C H	31439	Martin H	30716	Matumoto M	30118
McDonough E S	26400	McQuate J T	30715	Mann C W	32504	Martin J	31985	Matusevich G I	32143
McDonough E S	30714	McRostie G P	27969	Mann D	33376	Martin J A	32870	Mauch A	33379
Macedo J N	29127	McWhorter F P	26535	Mann D H	27131	Martin J A	27184	Maugé G C	29244
McElroy L W	29388	McWilliams C	32072	Mann D H	29903	Martin J H	27218	Mauldin M P	32775
McEwen E	33191	Madaluni F	27005	Mann R H	28671	Martin J H	27006	Maule J P	29130
Macfarlane	27922	Maddex R L	31392	Mann R H	28672	Martin J H	29655	Maull O	33340
Macfarlane	26808	Made D van der	32827	Mann F G	30773	Martin J H	29962	Maume L	26814
E W E		Mader W	26693	Manning F J	30406	Martin J P	27867	Maumené A	33180
McGahan J W	26692	Mader W	27203	Manning H L	33660	Martin L R	32880	Maunder D T	26815
McGahan J W	27884	Madison L C	30145	Manoillova A V	26796	Martin P	31135	Maurer K J	26253
McGaughey C A	29002	Madre B	28556	Manor J	31134	Martin P	33088	Maurer K J	27267
McGaughey C A	29473	Maekawa F	26110	Mansholt S L	33085	Martin P C	26629	Maurer K J	27331
McGee W R	29584	Magalhães	29508	Manson B C	28650	Martin R	30147	Maurer K J	28006
McGee W R	29596	J A P de		Manson P W	28119	Martin R	31387	Mauritius Hemp	32074
McGeorge W T	27854	Magalhães L M	29303	Manson T B	29306	Martin R	33339	Producers'	
McGeorge W T	27970	Magalhães L M	29304	Mantel W	28340	Martin R	33378	Syndicate	
McGibbon W H	29629	Magalhães L M	29305	Mantovani A	29597	Martin W P	27970	Maurizio A	30408
McGill D P	26974	Magee A C	27202	Manufacturers'	31412	Martin de	29982	Maurizio A	30409
Mac Gillavry D	30599	Maggs B E	29284	Association of		Frutos J		Maw W A	31171
McGinnis J	29712	Magnusson A H	26188	Israel		Martin-Leake	26811	Maxon N T	29906
McGinnis J P	31982	Mahaffey L W	29566	Manzini P	32994	H		Maxwell J C	31459
McGovern J N	28772	Mahle C F	28574	Marais S J S	30840	Martines V	31365	Maxwell N	26271
McGovern V J	29474	Mahler N	28630	Maramorosch K	26536	Martinez A	30601	Maxwell N P	28007
McGregor E A	30498	Mahlkuch E	31983	Marcelli E	26403	Martinez C	29713	Mayer	32408
MacGregor R B	30759	Mahmud K A	26339	March B	29691	Martinez	30602	Mayer	32409
Machado A V	30124	Mahmud K A	26379	Marchal A	27132	Andreu A		Mayer D T	29118
Machado A V	30129	Mahmud K A	26440	Marchal J G	29003	Martinez Fontes	29598	Mayer D T	29119
Machen H	28116	Mahmud K A	27786	Marchant S	30977	L F		Mayer-Dietfurt	31714
McHenry S	31305	Mahmud K A	28002	Marchbank D F	30763	Martini I	29792	H	
McInnes A A	28923	Mahoney C H	27898	Marchiori D	26404	Martins C M A	28830	Mayer-Dietfurt	31846
McIntosh R A	29301	Mai W F	26567	Marcilla	31568	Martins M M	28261	H	
McIntyre A C	28071	Mai W F	26568	Arrazola J	31569	Martinuzzi E A	32589	Mayers G	29522
McIntyre A C	28072	Maier E A	28003	Marcilla	31647	Marzi de	31871	Mayfield G R	33590
McIntyre E R	33374	Maier F	26809	Arrazola J		Marzi G de	31413	Maymone B	28927
Mack J	29061	Maier-Bode	33375	Marcos J	32483	Masani N J	28707	Maymone B	28928
Mack M	31763	F W		Marcus C P	26509	Mascaro L A	29614	Mayne W W	26254
MacKay A I	33626	Maine Univer-	28773	Marcuse R	32171	Mascreé M	26812	Mayr R	32607
McKay D D	31566	sity		Mardzhanishvili	28491	Masefield G B	31136	Mazé-Sencier	29615
McKay K A	29281	Maiforov D M	27065	A		Mason A H	28926	Mazzoleni G	31821
McKay K A	29302	Major F	32572	Marec E	31363	Mason A J	28187	Mazzoni G	31061
McKay K A	29534	Makevinin A I A	27183	Margadant W D	26159	Mason C L	26494	Meadows B	32026
Mackay W	29128	Makinson K R	32073	Margold F	30270	Massachusetts	33453	Meadows P	33627
McKeand D J	32747	Makkinga S	30125	Mariani E	32829	State Grange		Medici	31137
McKee R G	28520	Makower B	31439	Mariano J A	33086	Massey L M	31249	Medici M	30410
McKeen C D	26401	Maksimova M P	27330	Marimpietri L	33086	Masterson F H	29904	Medina A	27906
McKeen W E	26402	Malaise R	30178	Marinucci M	28005	Mastrorilli E	33137	Medina A D J	30603
Mackensen E	27662	Malaise R	30269	Marion H	31213	Masutti A	33495	Meeuse A D J	32075
Mackenzie A M	28360	Malavasi I	32482	Marion P	30126	Matagrín A	26252	Meeuse B J D	31441
M'Kenzie D A	31769	Malavolta E	28004	Maris P V	33282	Matagrín A	31648	Megale F	29131
Mackenzie K J	28073	Malcorps G	31567	Mark A	33321	Matallana	31918	Megale F	29307
McKern H H G	26830	Maldonado J F	30772	Mark H F	32606	Ventura S		Megale F	29308
Mackin G E	28772	Malies H M	30179	Markell E L	32899	Matarese J G	28786	Mehl S	26255
McKinlay K S	30268	Malik H C	27153	Markell E L	32900	Matchett J R	31440	Mehner A	28885
McKinney H H	26534	Malik H C	27156	Markham V	31334	Matera E A	29475	Mehner A	29656
McKinney R W	29651	Malik M I	30005	Märkl F	30407	Mathauda G S	28428	Mehrotra H N	26405
McKnight T	27885	Malikov D I	30006	Markstein D	31570	Mather K	26630	Mehta P R	27886
McKusick H A	28829	Malinina E E	26806	Markes M J	30499	Mather K	30696	Mehta T R	27007
McLagan J R	30093	Malinina E E	27130	Marquardt H	26250	Matheson N A	32685	Mehta T R	31452
McLane S R Jr	26030	Malinowski E	26694	Marquardt W	30146	Mathews G R	32981	Meier O W	32917
MacLaren G A	32826	Mallo R G	30825	Márquez	31041	Mathis A G	31477	Meier R	30579
MacLean N A	26285	Malm M	26810	Delgado A		Mathlein R	30271	Meijer W	26159
		Malmke G	32407	Marrero J	28492	Mathot H J	32183	Meijers P G	27131
		Malsberger H J	28411	Marriage K	27522	Mathur P N	33589	Meijers P G	31986
				Marsh A F	29622	Mathur R N	30979	Meilhan A	33380
						Mathur R S	26813	Meindl G	31138



	Item		Item		Item		Item		Item
Meindl G	33381	Midwest Barley	27008	Mital S P	26461	Moore W G	27820	Muirhead F G	29091
Menis J	33181	Improvement		Mitchell C J	30871	Moore W J	29794	Mulzon de	28728
Melser J A Jr	31919	Association		Mitchell H S	33515	Moore R G	31554	Mukerji P	27815
Melsner F	32983	Midwest Barley	27009	Mitchell J E	26816	Moorhouse S	33184	Mukherjee B N	30040
Melsner F	32881	Improvement		Mitchell K G	30086	Mora Davila N	33456	Mukherjee S K	26631
Melssner K	27332	Association		Mitchell K J	33168	Morals M de	28010	Mukherji D K	26819
Melssonier F	31650	Midwest Barley	32443	Mittler P	27235	Morals R G	29309	Mukherji D K	26845
Melth H C	28117	Improvement		Mittler S	30719	Morales J O	33383	Mücksch L	26820
Melhus I E	26452	Association		Miura A	30782	Morales P T	29310	Mulhearn C R	29283
Mells A	30826	Millet R	30412	Miyagawa I	30277	Morales R C E	29024	Mullen H H	31366
Melle Station de	27135	Millet R	30413	Miyake Y	28869	Morales Otero	29006	Mullen J E C	29311
Sélection des		Mignotte F	31198	Mjaavatt A	30414	P		Mullen J E C	31774
Plantes		Mikhailin I A	28319	Moczar L	30890	Morales Otero	29007	Müller	31921
Mellencamp B C	29391	Mikolajchuk I A	27367	Modena A	27136	P		Müller A P	28012
Mellier M T	32608	Milaknis A	29461	Modena A	27137	Morand G	28122	Müller C J	32776
Mellini F	30272	Milles E R	27524	Moock A H	30980	Morand J	28560	Müller E	29600
Mello A T de	27523	Miles H W	26569	Moeller S	27664	Morani V	28011	Müller E	30419
Mello E M de	28265	Miles S R	27010	Moerick V	30829	Moreaux R	30416	Müller F	33630
Mel' nichuk A N	28074	Miley D G	33008	Moest	29134	Moreno N F	27995	Müller H C	31922
Melton C J	30411	Mili H E	27308	Mohr O	30415	Morell M	27789	Müller J	28013
Melvin E H	32587	Misslavjevitch	26407	Mohr W	31920	Morelli A	28832	Müller K	26161
Membré	28558	D		Molr G M	31772	Moreno Luque J	32611	Müller L	31775
Mengebier H	31770	Milk Marketing	29132	Moiseev A E	30275	Morgan J N	31800	Müller L	32933
Menlaud	28559	Board of		Moiseev A E	30276	Morgan J T	28589	Müller O	31923
Ménlaud J	28361	England and		Moiseev A E	30604	Morgenthaler O	30419	Müller O A	32901
Menon K K	26254	Wales		Moiseev A E	30720	Morhouse C H	30501	Müller R	28364
Menon M A U	30775	Millard R	33563	Moiseev A E	30721	Morino Y	30277	Müller	27141
Menschel H	32794	Miller A W	28118	Moiseev A E	30830	Moritz F L	33185	Defradas R	
Mercer E M	29392	Miller D G	28119	Moiseev N F	31189	Morley D W	30891	Müller	28416
Mercier J	32996	Miller E A	31453	Moiseeva V N	27138	Morley D W	30892	Defradas R	
Merck and Co	29004	Miller E B	28993	Moiseeva V N	30604	Morley D W	30893	Müller	31574
Merendi A	27923	Miller E C	28703	Molchanov A A	28493	Morlier O W	32081	Mangold D	
Merfield A G	27234	Miller F P	29567	Moldenke H N	26113	Morrill E L	29616	Müller-Stoll	26409
Merish F	31715	Miller H F	33382	Moldenter W	29194	Morris C S	31773	W R	
Merkitanov G P	28391	Miller H F	31250	Molina J S	32610	Morris R C	27790	Müller-Thomas	28631
Merkt	31716	Miller I C	32297	Möllner E F	26817	Morrish B K	31215	Mullick D N	29009
Merkt	33628	Miller I M	28931	Mølmen O	29575	Morrison B Y	27527	Mulligan B O	27528
Merriam A L	33674	Miller J R	32971	Molotkovskij	27011	Morrison F R	26830	Mumm H	31938
Mertz E T	30099	Miller L A	29393	G Kh		Morrison G	27665	Munde H	31524
Merz V	32830	Miller L J	32907	Momiyama Y	27333	Morrison I	29195	Munde H	31525
Mesack G	31987	Miller M E	32858	Moncrieff R W	32078	Morrison W W	32219	Mundkur B B	26197
Mesrobian R B	32606	Miller M P	27934	Moncreiff R W	32079	Morse E	31573	Muniz M	32461
Mestre	31651	Miller M S	28587	Money R W	32831	Morse W J	26926	Munjul R L	26178
Artigas C		Miller M W	29714	Monot G	26257	Morse W J	27185	Munn M T	26821
Metcalf V	33182	Miller P R	26248	Monot G	26818	Mortara G	31599	Munnecke D E	26410
Metcalf Z P	30180	Miller R C	30063	Monot G	32298	Mortensen H	32688	Muñoz Noroña A	29010
Metcalf Z P	30827	Miller R C	32077	Montagne R	33284	Mortenson W P	32689	Muñoz Rodes A	29011
Metherell E C	28771	Miller R C	32609	Montagne R	33285	Mortenson W P	32690	Munroe E G	30981
Métivier S	28008	Miller R F	29716	Montanari V	31653	Morton C V	26144	Munroe E G	30982
Métivier S	33089	Miller R F	29723	Monte O	30605	Morton L W	27139	Munster W N	32749
Metz C W	30717	Miller R W	31415	Montenot R	29509	Moscow Nauch-	29983	Münstermann W	33496
Meulemeester	32076	Miller T B	28896	Montgomery R H	28599	no- Issledova-		Munz P A	26114
D de		Miller T B	31960	Montserin B G	27789	tel'ski Institut		Munz P A	26592
Meybeck J	30067	Miller W H Jr	28120	Monvoisin A	31571	Kroli-		Münzberg H	31872
Meyer A B	28362	Millet R S	28651	Monzini A	31751	kovodstva		Münzberg H	31873
Meyer A B	28521	Millman L H	30500	Monzini A	33564	Moser A	28363	Murchison C T	32082
Meyer F	27663	Millman L H	31214	Mooberry A V	32686	Moser H A	32587	Murdock O	32918
Meyer F	31393	Milne L J	26032	Moodie C D	27868	Moser H A	32612	Murphy H C	26436
Meyer G	33183	Milne M J	26032	Moore A C	29657	Mossel D A A	31500	Murray D	28632
Meyer J	26097	Milner H W	26925	Moore A C	29658	Mossel D A A	33534	Murray W G	33186
Meyer J	32554	Milner M	30274	Moore A C	29908	Mostert J F T	27012	Musil A F	26115
Meyer K F	29477	Milner M	32410	Moore A C	29909	Mosti A	27263	Musil A F	26116
Meyer K F	30039	Milovanov V K	28886	Moore A C	29910	Mosti A	27369	Mussehl F E	29796
Meyer R	30273	Millstead E	29907	Moore A C	29911	Mosti A	27369	Musselman V	33385
Meyer S	27787	Miltner	29133	Moore A C	29912	Mot P de	32613	Musser K B	31717
Meyer W	28929	Milzer A	29599	Moore A C	31307	Motzkoi I	29822	Mussiger W	27791
Mézy J	31189	Minnesota State	33455	Moore E B	28415	Moulder J W	29479	Muthesius K	33090
Mezzetti A	26495	Grange		Moore E L	32299	Moulder J W	29478	Mutti U	27013
Michaelson M E	26406	Minnich R	32972	Moore G A	30931	Moule G R	30027	Mutti U	27014
Michalk O	30923	Minter M	27525	Moore G B	27147	Mouravieff	30606	Muzzati G	30419
Michalski J V	29793	Minut J	31771	Moore H C	27526	Mouravieff Mme	30606	Muzzati G	30420
Michaux A	30026	Miny P	32748	Moore H I	28930	Moussatché I	29008	Muzzati G	31023
Michelmores R J	28189	Miocque R	28231	Moore I	28931	Movsisian's A P	27140	Muzzati G	32462
Michelson C	26932	Mir R M	31652	Moore J D	26537	Mowry J B	26408	Muzzati G	32463
Mickey G H	30718	Mirantz M S	28121	Moore J D	26558	Mrozek	31922	Myburgh S J	29186
Mickwitz R	32460	Miró Esplugas	33283	Moore P E	32080	Mueller C D	29761	Myers E C	32257
Micuda J	29005	M		Moore R F	32687	Mügge	33629	Myers W	32759
Middleswart	31414	Misra M D	33307	Moore R P	26946	Mühlethaler K	26617	Myers W I	33091
W H		Missio F	27924	Moore W A	31572	Mühlhan W	28673	Myers W I	33092
		Misur H	28009			Muhm D	31161	Myers W M	27167



	Item		Item		Item		Item		Item
Myers W M	32779	Naves Y R	32614	New York Con-	28320	Noel-Buxton	33259	Nuret	32414
Myre M	27142	Navia Carvajal	26033	servation Dept		Lord		Nussbaumer J	29602
Myrick N	31924	G		New Zealand	31172	Noelting G	32413	Nutt J D	33188
Mysore Dept	30279	Nawaz S M	26822	Dept of Agri-		Noftzger S A	29660	Nyasaland Pro-	29012
of Agriculture		Naylor A W	26823	culture		Nohe E	27237	sectorate Dept	
		Neary J	31335			Nominé H	33457	of Veterinary	
		Neave F K	29251	New Zealand	32144	Nomura S	30608	Serv	
Naden K D	32691	Neave F K	29312	Fruitgrowers'		Nonoyama M	28017	Nyholm T	30611
Naef-Roth S	26764	Neave F K	29371	Federation		Nonoyama M	30283	Nyland G	26538
Naether C	29913	Nederlands	27066	Newald E	30422	Norbury C P	27269	Nyland G	26540
Naf A	29659	Vlasinstituut		Newald E	32464	Norby B	26852	Nylund R E	27731
Naftalin J M	29697	Needham J G	31085	Newcomer E J	30281	Nord F F	28843	Nys J	31442
Naftali J	33591	Needham J G	33631	Newell P F	29197	Nord F F	28849	Nys P F de	27870
Nagasawa S	30607	Needle H C	32833	Newell P F	32510	Nordbø H	27669	Nystrom R F	29756
Nagasawa S	30896	Neenan J L	32412	Newhall A G	26414	Nordbury C P	32220		
Nagata J	28738	Neergaard P	26258	Newhall A G	28214	Nordin V J	26260	Oakley J	32764
Nagata J	28872	Neetzel J R	31354	Newland L G	31759	Norm. nd J	28346	Obenhaus V	33386
Nagel R	32411	Negre E	31655	Newlander J A	29198	Normann	32973	Obraztsov N	30986
Naguib M	29797	Négrier	27143	Newlander J A	31848	Nor K	27310	O'Brien H R	29394
Najdin P G	28014	Negrul' A M	27370	Newman J E	27010	Norris C B	28740	O'Brien M J	26261
Naidu M C	28123	Neher G M	30041	Newman J P	30110	Norris L C	29716	O'Connor J J	28969
Nair C K N	26912	Neiburg M F	26034	Newman L H	30833	Norris L C	29717	O'Connor R T	32575
Nair C P	30776	Neiger Y	28075	Newman L H	30983	Norris L C	29718	O'Connor R T	32616
Nair M S	27828	Nelson A P	31989	Newton A	26910	Norris L C	29723	O'Connor R T	30285
Nájera L E	30832	Nelson A Z	28561	Newton D	32145	North Carolina	26955	Oda N	
Nakagami S	29050	Nelson E	27530	Newton R G	32750	Crop Improve-		Odiozabal O	27150
Nakagawa T	29590	Nelson J H	28015	Nicalse A	30423	ment Associa-		Odland M L	26787
Nakai T	26117	Nelson J M	26824	Nicaragua Re-	33497	tion		O'Donnell A C	32147
Nakane T	30608	Nelson K S	26825	caudador Ge-		North Central	32934	Oechslin M	28321
Nakano M	29050	Nelson R	26411	neral de		Land Tenure		Oertzen H U v	29138
Nakayama H	30287	Nelson R	26412	Aduanas		Research Com-		Oesterle J F	29483
Nakazawa R	31575	Nelson R	26413	Nicholas D J D	26731	mittee		Ogata M	30987
Nakazima M	30609	Nema K G	26413	Nicholas D J D	27869	Farm Land		Ogilvie J P	33567
Nankivell I	27309	Némec A	28016	Nicholas J E	32300	Prices Sub-		Oglesby J R Jr	27144
Napreth N	27666	Nenarokomov	28471	Nicholls W H	27533	committee		Ognev I M	27671
Nash R W	28512	A V		Nichols C W	26538	North Central	32517	O'Grady M P	33551
Nason A	26927	Nerio K	33094	Nichols L P	26826	Livestock Mar-		Ogren R M	32172
Nasonova E V	27015	Nesheim R O	30127	Nicholson A J	30610	keting Research		Ohio Seed Im-	26956
Nasr H	30093	Nesius E J	33187	Nicholson A J	30723	Committee		provement	
Nathanael	26911	Nesterov V G	28299	Nicholson J H D	28450	Northeastern	28833	Association	
W R N		Nesterovich N D	27531	Nickerson D	27835	Wood Utiliza-		Ohsawa W	30896
National Can-	33565	Nestmann	29914	Nickerson D	32083	tion Council		Ohshima K	31059
ners Associa-		Netherlands	27017	Nickerson H A	27667	Northern R T	26632	Oiwa T	30277
tion		Rijksinstituut		Nickerson W J	30282	Northern R T	27536	Okada Y	26173
National Chin-	29530	voor Rassen-		Nicolaisen N	32146	Northern Ire-	27018	Okamoto K	28738
chilla Breed-		onderzoek van		Nicolai J N	27534	land Ministry		Okamoto K	28872
ers of America		Landbouwe-		Nicolini J C	30894	of Agriculture		Okamoto S	30250
National Con-	32832	wassen		Niederfrank E J	33385	Northern Ire-	28932	O'Kane W C	33189
nectioners'		Nettles W C	28060	Niedermeier	29234	land Ministry		Okubo T	30609
Association of		Nettles W C	30286	R P		of Agriculture		Oldacre W B	30043
the United		Netto F A	29135	Nieland L T	28522	Northern Ire-	29313	Oldham C H	27270
States		Neuberger R L	32615	Nielsen A T	30984	land Ministry		Oldham C H	27371
National Insti-	27016	Neumann F	29196	Nielsen E T	30777	of Agriculture		Olesen J	28232
tute of Agri-		Neumann H G	29294	Nielsen E T	30984	Northern Ire-	30148	Olesen J E	31991
cultural Botany		Neumayr L	33286	Nielsen L	33498	land Ministry		Olive F R	27887
National Insti-	31139	Neuner J	31656	Nielsen L W	26539	of Agriculture		Olive J P	28933
tute of Agri-		Neustadt M H	32598	Nieschlag	28076	Northern Ire-	30284	Olive J R	30182
cultural		Nevada State	30421	Nigeria Dept of	31479	land Ministry		Oliver A W	28125
Engineering		Apiary Com-		Marketing and		Northern Ire-	31596	Oliver J G	32084
National Insti-	33675	mission		Exports		land Ministry		Oliver J V de	27311
tute of		Neville A	29915	Niklas	33095	of Agriculture		Olivera S J de	30724
Sciences of		Neyzorov G A	31990	Niklas W	32834	Norton E A	27925	Olivera e	27334
India		New England	27532	Nikitin A I	30433	Norton L B	30727	Castro F	
National Lumber	28869	Gladolus		Nikitin I N	28303	Nosik A F	30042	Oliveros S B	27207
Manufactures		Society		Nikitin I N	28494	Nosov I K	28575	Oliveros S B	32835
Association		New Jersey	31478	Nikolaenko N P	27535	Nosti Nava J	27792	Oliver L	29139
National Milk	31703	Dept of Agri-		Nikolaiczuk N	29715	Nottingham	33051	Olliver M	32173
Producers		culture		Nikol'skafá M N	30895	University		Olmo H P	27251
Federation		New South Wales	26259	Nikol'skií N F	30007	Noulard L	26998	Olmstead B	29199
National Milk	31718	Dept of Agri-		Nilsson G	27236	Nourse H A	29661	Olsen M W	29711
Producers		culture		Nimmo C C	32290	Novák P	29740	Olsen S R	28018
Federation		New South Wales	29136	Nishikawa H	26035	Novak V J A	30181	Olson R A	27999
National Re-	31988	Dept of Agri-		Nishikawa H	26189	Novasio D	32184	Olver E F	31362
search		Div of Dairy-		Nissen-Drejer R	27668	Novikov A I	28392	Olvera	29799
Council		ing		Nissen-Drejer	33566	Novopol'skafá		Herrera M	
Committee on		New South Wales	30722	R		E V	30985	O'Mara J G	26696
Feed Com-		Dept of Agricul-		Nivison R Jr	28775	Noyen J	27019	Omer-Cooper J	30286
position		ture		Nix M	31029	Noyes F B	26827	Omer-Cooper J	30835
Naude T J	30279	Entomological		Nixon T	29137	Nozaki N	26767	Omura S	31060
Naugher R E	33384	Br		Niznansky F	29601	Nugent G R H	32693	O'Neal R	31657
Nauta L	33093	New York Col-	32909	Nobrega P	29798	Nunn A	28170	O'Neill W J	30502
Navarro J	31084	lege of Agri-		Noe J	30834	Nunome Z	31058	Ono M	30287
Navellier E	32248	culture							



	Item	Item	Item	Item	Item	Item	Item
Ontario Agri- cultural College	31173	Pacific Logging Congress	28600	Patel M K	26419	Pepper W F	29822
Dept of Bac- teriology and Poultry Hus- bandry		Packard C L	32258	Patel M K	26420	Pequeña Pro- piedad Agrícola	32007
		Packard C M	30289	Patel M K	26496	de la Comarca	
		Packard J H	27538	Patel M K	26497	Lagunera A C	
Ontario Veteri- nary College	29013	Paclt J	33593	Paterson R	28077	Péquignot G	33541
Oobuchi S	27672	Paddock E F	26418	Paterson R	31423	Pequignot R	28021
Oonyawongse R	29014	Padgett J R	28019	Paterson R	33194	Peralta Bergna	29603
Ordoñez B M	29015	Pagani A	33096	Patience W F	27540	H D	
Ordoux L	33458	Page O T	26373	Patra M K	29397	Percy J S	32085
Orehkov A D	31199	Pagnanelli V	30424	Patrick H	29722	Perdomo J E	33499
Orlov N P	30044	Pagnanelli V	30425	Patron A	32175	Pereira P C	29244
Orlova A A	26415	Pagnanelli V	30426	Patrons of Hus- bandry National Grange	33060	Peres E	28835
O'Rourke F J	30283	Pagot J R	29396	Pattanaik S	26037	Pérez J E	29801
O'Rourke F J	30897	Pagula R L	32844	Pattanaik S	26829	Pérez L J	32838
Orr R S	32081	Paine L A	26261	Patterson M E	28020	Perez R	30292
Ortega Nieto M	32611	Painter R H	26971	Patterson U L	27541	Pérez-Salas J	27372
Ortiz	33190	Paisley E H	29190	Patton A R	29774	Perkebunan D	27795
Villanueva B		Pakistan Central Cotton Com- mittee	27067	Paul A B	31577	Perkins D H	29480
Orwin C S	33191	Pal R	30290	Paul B H	28472	Perkins M H	27542
Osborn F	27899	Pal R	30290	Paul R A	29398	Perkins N S	28729
Osborne H B	33661	Palafox A L	29721	Paul R A	32533	Perkins S	29141
Osborne H G	30128	Palafox A L	29726	Pauley S S	26633	Peronne B	29724
Osebold J W	29765	Palazzo A	29140	Paulian R	30186	Perrault S	29917
Oser B L	29719	Palffy V F	30625	Paulian R	30612	Perre M van den	32751
Oser J	31526	Palm N B	30183	Paulson W E	31216	Perreault E F	30427
Osgood G	31658	Palm N B	30184	Paulus R C	31578	Perregaux E A	31465
Osmaston H A	28432	Palm N B	30898	Pavan M	30187	Perret J E	30726
Oslo Landbruks- akademiet	33387	Palma J Jr	28740	Pavan M	30900	Perronne P	27238
Vinterland- bruksskolen		Palmén E	30185	Pavari A	26421	Perry E J	29142
Ossa R	33459	Palmer C B	30725	Pavari A	26593	Perry H J	28777
Osterlind S	26928	Palmer C D	32327	Pavelchek E	30123	Perry J S	32300
Ostling J	27732	Palmer C N	32221	Pavin F W	32543	Perry T D	28633
Ostwald H	28393	Palmer G F	29510	Pavlenko F A	28496	Perry T D	28634
Ostwald H	28451	Palmer J W	27539	Pawson H C	29200	Perry T D	28653
O'Sullivan P J	29800	Palmer-Jones T	32465	Pawson W W	33195	Perry T D	28730
Oswald J W	26416	Palotay J L	29314	Payak M M	26192	Persson H	26162
Oswald J W	26417	Pan S C	32415	Payne G W	32893	Perucci E	26832
Otaguro W H	27537	Pan American Union	31640	Payne M G	32301	Pervak I A I	29399
Otani Y	31776	Pan American Union	33023	Peace T R	28417	Pesaro A	31268
Otey G	30521	Pan American Union	33023	Pearson A M	29185	Pesaro A	31269
Othmer D F	28834	Pancirolli F	28913	Pearson G A	28394	Peschetz H	30428
Othmer D F	28850	Pankov V A	29974	Pearson S V	31394	Pescio M S	30429
Othmer D F	28851	Pannocchi C	27926	Peck E C	28652	Pescott E E	27543
Othmer D F	31480	Pannun M S	32997	Peck F W	33620	Pesson P	30839
Othmer D F	31576	Pannwitz E	28126	Pedersen C	31527	Petelina A L	32902
Othmer D F	32781	Panov M	28267	Pedersen E	33245	Peter K	30991
Ott G L	29535	Panzer M L	28268	Pedersen O B	32919	Peters R W	31217
Ott W H	29720	Paris W	33193	Pedigo G P	32547	Petersen	31777
Otte F Jr	29434	Parish E C	32166	Peedin C D	26946	Petersen B	30614
Ottmann G	30298	Park R	29563	Peele F E	29663	Petersen J C	30069
Ouellet A	29395	Parker F M	28934	Peeler H T	29723	Petersen N	27900
Overley F L	26262	Parkinson F M	28934	Peeters F	27271	Petersen N	30094
Oversacq J	27793	Parkin E A	30291	Peeters F J	30613	Petersen N	30095
Oveson M M	33192	Parlagreco A	33287	Peithner Z	28395	Petersen N	31925
Ovington J D	28452	Parmentier P	31267	Pellegrin V	31659	Petersen A G	31420
Owen J H	26327	Parnas J	29016	Pellegrino J	30836	Peterson A W	31368
Owen J H	26377	Parris G K	26264	Pellegrino J	30837	Peterson E H	29803
Owen O	27871	Parrish F T	28745	Pellegrino J	30838	Peterson G A	32695
Owen W L	28266	Parrot A G	26190	Pelly R S	28562	Peterson R B	28731
Owens J V	26570	Parsons J L	28776	Pelshenke P F	32416	Petrochenko E I	26929
Owens W	32518	Parsons R E	30989	Pemberton R L	30082	Petrov A M	29536
Owers A C	32936	Partch R E	28674	Pendleton R L	27835	Pett L B	33536
Owers R H	31242	Parvin F W	33097	Penfold A R	26830	Pette J W	31926
Ownbey M	26118	Pascual de Quinto F	27335	Penha A M	29221	Petty F W	30840
Oxford A E	30052	Pasechnik S	28495	Pennell F W	26118	Pettit V C	32014
Oyague y Mariategui A	33592	Pasfield D	31309	Pennell F W	26119	Peturson B	26422
Oyama K	30782	Pass H de G	27794	Pennisi L	26831	Peyerimhoff P de	30615
Ozol A M	26828	Passebon L	29662	Pennisi L	32302	Peyerimhoff P de	30616
		Passonneau J V	30990	Pennisi L	32309	Peyerimhoff P de	30617
		Passos H de G	27794	Pennsylvania Academy of Science	33591	Pfeffer A	30618
		Pasteels J	30899	Penny J G	29916	Pfeiffer G	30430
Paarlberg D	31528	Pasteels J	31086	Penny N M	32516	Pfeiffer R	27733
Paarlberg D	32723	Patel M K	26036	Penrod E B	32547	Pfilmin	33098
Pacheco J A de C	32174	Patel M K	26191	Pensom W H	29664	Pfrang	32417
		Patel M K	26199				



Item	Item	Item	Item	Item	Item	Item
Plantefol L 26635	Pound G S 26427	Pukhovitskiy N M 33391	Ramona R de 27022	Rees A M M 28946		
Platania L C 33568	Pound G S 26426	Pulte J 29569	Ramondt D 31579	Rees A M M 33247		
Platenburg T J 31720	Poundstone B 31992	Pultz L M 27187	Ramos M B 32752	Rees L 31931		
Platt K B 27124	Poupart Y 27796	Pulver W 29403	Randall C E 28348	Reeves R E 32090		
Platt R 26038	Pourrat H 33389	Punnett R C 32698	Randolph L F 26124	Regenstein F 29672		
Platzler H B 28304	Poutiers R 31251	Puri G S 26594	Raney R R 31142	Reger M 32307		
Plessis P 28732	Povolochko P A 27375	Puy E de 30434	Rangel N M 29324	Regnier R 30622		
Plevoets C 32419	Powell J C 33289	Puy E de 30435	Rangel N M 30124	Rego J F do 29145		
Plock K 31927	Powell-Owen W 29665	Puzon B 33197	Rangel N M 30129	Rehman M A 28655		
Plowes D C H 27145	Powell-Owen W 29666	Pye N 26721	Ranzani G 28217	Rehn J W H 31042		
Pochon J 27888	Powell-Owen W 29667	Pyne G T 31778	Rao A N 28241	Rehri K 31243		
Pocota C S 27547	Powell-Owen W 29668	Pyrke B A 33198	Rao A R 26039	Reich B 32935		
Poe W D 27068	Powell-Owen W 29669		Rao N V S 30296	Reid B 33201		
Poe W D 33677	Powell-Owen W 29670	Queensland Bur of Investigation 28130	Rao P V C 28133	Reid E B 33461		
Pöhler 29400	Powell-Owen W 29805	Queensland Dept of Agriculture and Stock 33595	Rao R R 29808	Reid E P 31459		
Pöhler 31310	Powell-Owen W 29922	Queensland Land Administration Board 33199	Rao T N R 26040	Reid J A 30778		
Poisson R 30728	Powers H E C 32840	Queensland Land Administration Board 33199	Rao T N R 31580	Reifel B 33341		
Poisson R 30841	Powers W L 28129	Quézel P 30626	Rao Y S 26636	Reitmann W 28635		
Poitras A W 26163	Pownall H 29062	Quézel P 30655	Rapley R 29324	Reinders- 28970		
Pokrovskiy N 31928	Pozdena L 28269	Quézel P 30656	Rappaport B N 26823	Gouwentak C A 33290		
Poli P 28128	Pozo Pelayo C 29144	Quilici R 29735	Rapraeger H A 28470	Reinecke V 27675		
Polifakov I M 26424	Pozo Pelayo C del 29402	Quilliet G 33062	Ras Crotto N P 29019	Reinecke L H 28620		
Polifakova N F 26425	Pozzi F 28887	Quin J I 30052	Rask S A 32618	Reinelt F 27552		
Pollak A 28851	Pozzo Ardit L 33102	Quinteros M 28189	Raskin L M 27273	Reinelt F 27553		
Pollard A G 30296	Prado O de T 26428	Qurashi A A 31785	Rasmussen A O 33393	Reinhardt W 27205		
Pollard A G 31429	Prakash M 28537	Qureshi I M 26419	Rasmussen E F 28654	Reinhart J 33395		
Pollock C 32697	Prasada R 33632		Rasmussen L 28134	Reinking C A 26541		
Pollock R C 32484	Pratt A 33390		Rasmussen W H 29570	Reinmuth P 28735		
Pol'skiy M N 27836	Pratt F F 32271		Rasmussen W H 31313	Rels J M dos 33569		
Poltev V I 30431	Pratt J J 29923		Ratchford C B 33022	Remane R 30842		
Polunin O 26122	Pratt R M 30238		Ratchford C B 33289	Remlinger P 29020		
Pomar L M 33100	Pravdin L F 28498	Raab J 31141	Ratcliffe H E 32699	Remlinger P 29021		
Pomeroy B S 29804	Prax A 32999	Raabe E W 26595	Rath 30621	Remon M 31721		
Pomeroy K B 28523	Prebluda H J 31993	Rabbetts J F 31312	Ratineau J 28938	Rempel J G 30991		
Pomogaeva A I 27673	Prentice C 27548	Radeleff R D 29203	Rattliff F T 28837	Renard M 31444		
Pond V 26703	Preston A L Jr 27146	Radet E 26930	Rattigan C 28027	Rendel J M 30084		
Ponomarev A N 28396	Preston J F 28418	Radford A E 26123	Rauch G H 32306	Renk O 32224		
Pons W A Jr 32616	Preston N 27549	Radley J A 31443	Raunecker 28324	Renkonen O 30623		
Ponsignon A 29918	Preston S B 28733	Radnabazaron B 30008	Rauscher 30993	Renner F 27275		
Ponsignon M 29919	Prévot A R 29018	Rads spinner W A 32227	Raut C 26833	Rennerfelt E 28676		
Ponsignon M 29920	Prevot P 26429	Raeburn J R 32562	Rautenberg H J 30436	Renoux G 28962		
Pontailier S 28025	Price C W Jr 28675	Raes G 32088	Rautenberg H J 30437	Rens G 32941		
Pope L S 29202	Price C W Jr 31311	Rafay S A 26431	Raveux R 26834	Rens G 32842		
Popenoe W 26478	Price E R 32717	Ragazzi G 32089	Rawson O C 33104	Rens G 32862		
Popkov M I 28323	Prichard G L 32617	Ragazzi G 32420	Rawson R R 33260	Renzo R di 30438		
Popp H W 26787	Prier J E 29806	Ragionieri C 29671	Raychaudhuri S P 26559	Repp G 27930		
Popp L 31501	Priestman 32560	Ragsdale S 32304	Raymaekers R 31483	Reserve Bank of India 33462		
Popov N A 28619	Priestman 33501	Ragsdale S 32305	Raynaud R 31190	Agricultural Credit Dept 33202		
Porte C 27674	Prihoda A 26430	Ragué Mir J 28347	Rayner R W 27797	Resler R D 33202		
Porter B A 30293	Prikonskiy V 31859	Ragué Mir J 28836	Razous P 28563	Reuther W 26853		
Porter B A 30294	Primost E 27239	Ragulin A E 32903	Rea H E 27721	Reveron E 26953		
Porter C 32761	Prince F S 27147	Rai H 29807	Rea J N 30027	Rey Vercesi D 28189		
Portères R 26068	Prince R M 28078	Raia N 28131	Read B W 31338	Reyes G M 26266		
Porto J da C 33460	Pringle A V 32086	Raia N 31218	Read W G 31338	Reyes H 26267		
Portsmouth G V 33196	Prisizhnsuk A A 30295	Raimond H F 28937	Reagan R L 29809	Reyes J 27276		
Wallop Earl of 27927	Pritchard N T 31823	Raimond G 28708	Reagan R L 29810	Reymond A 30624		
Post A H 27927	Pritchard N T 31823	Raimond R 30100	Real G A del 33394	Reynolds D D 33392		
Post J J 29401	Pritchett W M 32087	Rainbow C 26748	Reaves C W 29204	Reynolds H W 26572		
Posternak T 32176	Procházka F 27204	Raineri C 27928	Reay G A 32904	Reynolds H W 29623		
Posthumus G 31929	Prock W 28936	Rains A T 32148	Rebiffé J 28028	Reynolds J P 30717		
Postletwait S N 26012	Procopio M 31660	Rains A T 32222	Rebour H 27274	Reynolds R R 28419		
Potapanko I A I 27374	Proctor G D 29441	Raizada M B 26124	Rebour H 28029	Reznik P A 30505		
Potapov P P 30432	Proctor R E 33110	Rakhmankin S G 28590	Rebour H 32223	Rheinheimer O 30439		
Potier de la Varde R 26164	Prokoshev S M 26929	Ram M 28132	Recasens L de 32905	Rheinwald H 33396		
Potomac Grange 33101	Proskauer J 26165	Ramadan A 28026	Recke 31417	Rhoads A S 26432		
No 1 Patrons of Husbandry Washington D C 29921	Protasov 30433	Ramage W D 31545	Rector M 31661	Ribbova S I 27991		
Potter A 32839	Puccini G 27550	Ramakrishnan C V 26931	Reda H 29325	Riakhovskaia L I 30625		
Potter E F 32177	Puchois P 33633	Ramakrishnan K 26193	Redden C A 28780	Ribbands C R 30440		
Potter L A 31140	Puddle F C 27551	Ramakrishnan T S 26193	Redfern D V 28734	Ribeiro D J 27798		
Potts J W 29225	Pugh E S 32485	Ramaswamy A S 29808	Redmond J 28365	Ricasoli L 31662		
Potts R C 27107	Pugh P D S 30046	Rambier A 31027	Reed F D 33200	Ricci A 32421		
Potts R C 27112	Pugh R B de 29435	Ramenskaf V M 26125	Reed I F 31101	Ricci I 28939		
Poulson J F 28935	Pugliese V 33103	Ramon Villanúa S 27929	Reed O E 31930	Ricci I 31043		
Poulson D F 30729	Pujols H P P 32014		Reeder J R 26127	Ricciardi L G 28931		
Poultry Tribune 29921			Reeder N 29404	Rice S A 31174		
			Reeder W 32385			



	Item		Item		Item		Item		Item
Rice T B	33537	Rivalier E	30627	Rohde E S	27376	Rowsell H C	29302	Saint-Quentin M	29571
Rice V A	28889	Rivalier E	30628	Rohlf J A	32092	Rowsell J	31219	Saitner M	31935
Rice Millers' Association	32422	Rivera Garcafa S	27620	Rohlfes	29147	Roxas M L	27207	Saito Y	26836
Rich S	26375	Riveros J E	33502	Rohmeder E	28499	Roxas M L	32845	Saja F	28138
Rich S	26433	Rizzo C A	29926	Röhner G	29815	Roy J B	29927	Sakai S	30844
Richards A W	30995	Roark D B	29366	Rohr H von	31995	Roy J B	29928	Sakamura T	26837
Richards J N P	31270	Roark J	32149	Rohrbaugh P W	26271	Roy J B	32701	Sakharov M K	30903
Richards K L	28940	Roark R C	30315	Rohwer S A	33596	Roy S C	32094	Saks E V	28737
Richards P	31722	Robert S A	31454	Rojas Cruz L A	28031	Royal Society of Canada	26177	Sala E	32705
Richards P W	26154	Robert D	30902	Roland G	26543			Sala E	32945
Richards R E	32091	Robert D	33631	Rolfo F	27150	Rozanov A N	28136	Sala G	29333
Richardson B H	30523	Roberts A	31994	Rollin L	32985	Rozzoni L A	33107	Sala Roca E	32623
Richert A M	27551	Roberts B H	33252	Rollinson D H L	29823	Rubeck B W	28137	Salazar	27569
Richou L	29482	Roberts C	26709	Romagosa Villa J A	28271	Rubiczek H	27801	Salces F	29617
Richter J	29812	Roberts D A	26542	Romanini A	28032	Rubiczek H	30442	Salcines J L	32490
Richter J H	33105	Roberts E	27556	Romano E	30301	Rubin S M	27370	Salerno	31871
Richter R A	27069	Roberts E J	30070	Romanucci D	29484	Rubinfeld J	32754	Salerno A	30010
Ricker P L	27736	Roberts E J	33191	Römcke-Moe G	33106	Rubio Lozano F	29024	Sales A	32846
Ricketts V L	29483	Roberts E W	31066	Romero I A	33261	Rublevskii I	31143	Sallsbury G W	29152
Rico J	29022	Roberts H A	27700	Ron D	26957	Rubfsov N I	26069	Sallenave P	28709
Riddolls A W	28135	Roberts J B	31823	Ronson R	31315	Rudakov A I	30096	Salom Calafell J	33205
Rieck G W	29469	Roberts P W B	31314	Roos J C	26114	Rude	28033	Salomon G	32755
Riedel B B	29813	Roberts S J	29287	Root H H	33570	Rüdiger W	32095	Salomon M	27889
Riefkogel R	26041	Roberts V M	29205	Roper G D	28500	Rudolf P O	28501	Salter R M	27570
Riegel A	27148	Roberts W C	30353	Ros Mariné M	33325	Ruebke H J	29331	Salva Cerda J	32624
Riemschneider R	30298	Roberts W J	31175	Rosa M de	32150	Ruelle L	28034	Salvador A N	31664
Ries A T	32225	Robertson E T	26584	Rosa M de	32151	Ruffaldi G B	27923	Salvador y Ascaso J M	33636
Ries A T	32226	Robertson G	31244	Rosa M de	32308	Rufin G	27151	Salzgeber B	29816
Rietberg H	26860	Robin V	29023	Rosado E H	30657	Rui D	26545	Samat M	29930
Rietschel P	30190	Robinson H M	32620	Rosado E H	30854	Rui D	30843	Samat M	31316
Rietsema C	33203	Robinson J	27557	Rosand J	27336	Ruiz Martínez C	29332	Samek F D	28139
Rietz R C	28656	Robinson J	27676	Rosas E B	29462	Rümker R von	26287	Samsch Z	32625
Rietz R C	28657	Robinson J L	33463	Rosbach U F	32423	Rumney W J	29485	Sampayo T M	26838
Rieuf H	28564	Robinson K L	30086	Rose D	30071	Rumsey M C	28079	Sampletro G	28140
Riewe M E	27149	Robinson M	31339	Rose F	26166	Runckel W J	28807	Sample G W	33108
Riga A	27956	Robinson N	26269	Rose F	26596	Rune O	26129	Samuels G	28037
Riga A	27957	Robinson P L	27558	Rose F H	27567	Runnells R A	29025	Samuelson A A	27571
Riggs L	30901	Robinson R A	31581	Rose P D	32093	Ruppert A	32424	San Diego Co-operative Poultry Association	
Rigney J A	26950	Robinson W D	33538	Rose W G	32622	Rushe J	28190	San Miguel J	29817
Rigot N	32178	Robotka F	33447	Rosell D Z	32974	Russell Sir E J	28035	San Román G D	30302
Riker A J	26268	Rocasolano C	26270	Rosella E	27678	Russell E W	27837	Sanborn R C	31001
Riker A J	26391	Rocasolano C	27799	Rosella E	27679	Russell J F	29405	Sanchez Uceda J	30011
Riker A J	26434	Roche J	32621	Rosella E	30629	Russell R S	26835	SanCor Fábri-cas de Man-teca	31825
Riley H P	26637	Rockwell F E	27559	Rosella E	26436	Rusko G	33635	Sandage C	29975
Riley J P	32619	Rockwell F F	27561	Rosen H R	29721	Russo S	29929	Sandermann W	28677
Rindge F H	30996	Rockwell F F	27563	Rosenberg M M	29726	Russwurm A D A	30999	Sanders D	29153
Rindge F H	30997	Rockwell F F	27564	Rosenmark P	28565	Russwurm A D A	31000	Sanders F	33464
Rindlisbacher W	30441	Rockwell F F	27565	Rosenquist E A	27800	Ruthe H	29604	Sandford J B	29976
Rinear E H	32700	Rockwell F F	27567	Rosero S C	29329	Rutledge C Jr	31934	Sandford J C	29984
Ring	26435	Rockwell F F	27568	Ross A F	26542	Ryall A L	32227	Sandifer T N	32545
Rintelen	33678	Rodale R	28030	Ross A F	26544	Ryan J J	31773	Sandino Pardo R	29154
Rintelen P	28270	Rodriguez J H	32844	Ross D	32487	Rycke E de	27152	Sandison I E M	30012
Rio Grande Valley Horti-cultural Institute	27240	Rodwell C N	26679	Ross I	32486	Ryle G B	28325	Sandstedt R M	32384
Rio Pérez A del	31932	Roeder G	31779	Ross M	32487	Rymar' D	31723	Sandström B	26839
Rioux J A	30626	Roeder H	31933	Ross O B	30132	Rynbergen H J	33515	Sannikov M I	30013
Rioux J A	30655	Roegner-Aust	30300	Rossem G van	30630			Sanson J	33662
Ripley D	27555	Roekens F	26128	Rossmässler	28366			Santa Maria	31583
Ripley W A	29326	Roemer M I	33398	Rosso G	32753			Ledochowski J	32228
Ripper W E	30299	Roessl D H	27277	Rossouw S D	32505			Santa Paula Cit-rus Fruit As-sociation	
Risack-Verhoeven L	31445	Roets V M	27566	Rostand J	33597			Santa Rita G V de	26958
Risi J	28911	Roey G van	31620	Rostirolla G	26545			Santacruz T	31584
Risi J	28938	Roey G van	31663	Rostovfsev N F	29410			Santovenia E S	32886
Rissinger M	31590	Roef Codina J	29328	Roth A B	29130			Santovito D	31271
Ritchie J D	28736	Rogent I	27278	Roth L M	30661			Sapiro M L	29026
Ritchie J M	33204	Roger C	32920	Rothansl H	27279			Sarawgee C	33503
Ritgen G	32943	Röger W	29814	Rothbauer T C	32703			Sargent L	28272
Rittenhouse R C	28792	Rogers A L	29436	Rothe C H	26564			Sargent M	28141
Ritter	33397	Rogers D W	27871	Rothfels K H	31044			Sariola A T B de	33383
Ritter H	29146	Rogers H B Jr	31582	Rothschild L	29148				
Ritter H	29327	Rogers H P	31434	Rottier J	28601				
Rittershaus W	29925	Rogers J S	26697	Rouart S	27377				
		Rogers M T	32761	Rougerie G	27819				
		Rogers R	32702	Rouillard G	27206				
		Rogers R L	29063	Roussy L	30998				
		Rogers W A	31484	Roux L L	30009				
		Rogerson A	27160	Rouy H	32488				
				Rouy H	32489				
				Rowan M	30714				
				Rowarth R L	27568				
				Rowlands A	31780				



Item	Item	Item	Item	Item
Sarkar P B 32002	Schenk P J 26273	Schrock W W 31245	Seckman M C 27578	Sersanous C I 27582
Sarma P S 31002	Schenk P J 30783	Schröder 32160	Seckman M C 27579	Servi G 27029
Saroff A H 30763	Schenkel E 30510	Schroeder W F 29770	Secondi P 31724	Service des 30014
Saroun J 31418	Scherr G H 26841	Schroeder W P 33400	Sedar A W 26638	Geneteurs de
Sarrabay J 28250	Scheruga F 31367	Schruben L M 32979	Sedláček J 27380	l'Union Ovine
Sarthou- 29155	Scheu G 27379	Schubert 29207	Seegmiller K L 33401	de France
Moutengou J	Schiellein F 33112	Schubert J H 30785	Seelemann M 29335	Service Provi-
Sarvas R 28502	Schiermann E 30097	Schüle 28039	Seelemann M 31852	soire de
Sasa M 30506	Schildmacher H 30784	Schulenburg A F 28781	Seelig R 32153	l'Economie
Sasa M 30779	Schiller O 33206	Graf v d	Seelig R 32233	Laitière
Sasa M 30780	Schilling 31102	Schulman E 26044	Seelig R 32231	Servière H 31666
Sasa M 30781	Schilling C 27280	Schulte-Alt- 27025	Seelig R A 27682	Serviss G H 27155
Sasa M 30782	Schindler 32160	hoff W	Seemann F 26843	Sesaki K 29606
Sasaki N 29590	Schindler H 26042	Schulte Sien- 28890	Seemann P 32427	Sesti G 29408
Sasaki R 32707	Schlamb K 29692	beck 28890	Seetharaman C 29028	Severin H H P 26547
Sasser J N 26573	Schlenker G 28445	Schultze O F 29985	Sefer E 27683	Severin H H P 26548
Sasser J N 26574	Schlesinger W 32906	Schulz G 28678	Segura Arroyo 32627	Severin H H P 26549
Satchell G H 30730	Schlocker A 26540	Schulz G 31851	A	Severin H H P 26556
Sato K 30782	Schlotzhauer 32327	Schulze P 30511	Séguy A 30845	Sevink E T 31319
Sato M M 26194	E O	Schulze W 30045	Seibold D 29574	Seybold A 26846
Sato M M 26195	Schlup L A 33399	Schulze-Henne 33465	Seligman D 31423	Shackelford R M 29523
Sattler L 32870	Schmehl W R 28018	Schulze-Mani- 28602	Sellards G 30098	Shackelford R M 29524
Sauchelli V 28220	Schmid A 31665	tus H	Sellers K C 30046	Shaffer P F 31470
Sauchelli V 28221	Schmid E 32098	Schurr-Michel E 30635	Sellnick M 30512	Shafranskaja 26439
Sauchelli V 28251	Schmid W 27574	Schuur G 32755	Selman G G 26777	V N
Sauer J D 26088	Schmidt 27681	Schwab A W 32587	Selman G G 26777	Shah R 26641
Saunders D H 27241	Schmidt 28453	Schwank M 32555	Selman-Towt E 26354	Shah R 26847
Saunders G 31423	Schmidt E 32756	Schwanz H L 31319	Selman-Towt E 26759	Shakhshin M 32491
Saunders J W Jr 29818	Schmidt H 27281	Schwardt H H 30727	Selman-Towt E 27040	Shall' G M 31234
Saunier R 32806	Schmidt H 27282	Schwartz B 28142	Selman-Towt E 27051	Shanklin J F 28329
Saurman A V 32229	Schmidt H 28889	Schwartz M J 32099	Selman-Towt E 27051	Sharara H A 31890
Savage W N 32708	Schmidt H 30632	Schwartz S L 28839	Selman-Towt E 27051	Sharma O P 26440
Savage Z 33243	Schmidt H 30633	Schwartz S L 28852	Selman-Towt E 27051	Sharp D G 26550
Savattier R 33291	Schmidt H 32249	Schwartz S M 29209	Selman-Towt E 27051	Sharp P F 32313
Savenkova E P 27154	Schmidt H 32310	Schwarz G 31782	Selman-Towt E 27051	Sharples G C 26848
Saville G 31485	Schmidt M 27283	Schwarz G 31939	Selman-Towt E 27061	Sharples G C 30580
Saville G 31486	Schmieder R G 33631	Schweiger H 30637	Selman-Towt E 27066	Sharville E G 26209
Saville G 32230	Schmitt G M C 29027	Schweiger H 30637	Selman-Towt E 27066	Shaw A C 28800
Savkov V I 28327	Schmitt F J 31937	Schweizer J 27804	Selman-Towt E 28679	Shaw E W 28589
Sawada K 27572	Schmorl K 32426	Schweizer P 33207	Selman-Towt E 28762	Shaw J 29933
Sawin P B 29973	Schnaas G 29486	Schweizerischer 33114	Selman-Towt E 32030	Shaw J 29934
Sawin P B 29977	Schneider E O 26486	Bauernverband	Selman-Towt 32031	Shaw R H 27030
Sawyer R H 32777	Schneider F 30191	Preisbericht- 32031	Selman-Towt E 32033	Shaw R W 26463
Saxena H C 29206	Schneider F 30731	stelle	Selman-Towt E 32041	Shaw S T 32520
Sayed T 30507	Schneider F 30904	Schwimmer S 31446	Selman-Towt E 32059	Shay F M 33002
Sayed T 30508	Schneider V 31317	Schwob R 31585	Selman-Towt E 32062	Shay J R 26441
Sayed T 30509	Schneidermann 31003	Schofield F W 29334	Selman-Towt E 32063	Shcherbachev 28473
Sayed T 30509	H A	Scoggin J K 30193	Selman-Towt E 32066	V D
Sayre C R 33110	Schnell R 26043	Scola P M 29306	Selman-Towt E 32066	Shchigin M I 28590
Scalf R E 26840	Schnell R 26598	Scopes L A 31115	Selman-Towt E 32066	Shear S W 33505
Scandura C 32303	Schnellbach O 31144	Scossirol R 31346	Selzer O C 29674	Sheard G F 28711
Scarscia G G 26662	Schnelle F 27281	Scotland Dept of 31596	Semb G 27907	Sheehy E J 29409
Schaal L A 32301	Schnicker J L 33599	Agriculture	Sembach E 32312	Shefer A I 28041
Schade H 31936	Schobel A 33000	Scott C 33571	Semchuk T M 30443	Shelton D C 30099
Schaeffler H 27737	Schober K 26274	Scott C O 28018	Semenluk G 26452	Shenberger L C 26849
Schäfer 29156	Schober K 32250	Scott J P 29512	Semenov V M 31272	Shenefelt R D 30638
Schäfer A 26272	Schober K 32311	Scott J R 31145	Sementovskaja 29407	Sheremet'ev V I 29545
Schaffhausen J F 31331	Schoch W 28941	Scotti T 26963	N M	Sherer S J 32907
Schaible 32425	Schoen P W 28524	Scottish 31139	Semenza L 30732	Sheri A F 26372
Schampel E 27573	Schoff L H 33113	Machinery	Sempio C 26844	Sherrill D W 33209
Schaps T 29572	Schofield F W 29485	Testing Station	Semple R E 29451	Sheuring J J 31939
Scharday A 32152	Schofield W F 30130	Scriban R 32350	Sen K R 32100	Shevchenko T Z 27031
Schauenstein E 32097	Scholz J J 26502	Scrimshaw P W 30763	Sen M K 32094	Shevkun IA A 30015
Schaumburg L 32381	Schomp C D 31850	Scruggs C G 27026	Sen Gupta J C 26845	Shewell-Cooper 26275
Schaus R 29573	Schon R C 28273	Scruggs C G 27028	Senior B J 29675	W E
Schebitz H 29605	Schone W J 31004	Scruggs C G 29532	Senior R M 27580	Shewell-Cooper 27581
Schechner H 28704	Schönherr H 28566	Scruggs C G 33209	Senze A 29487	W E
Schedl K E 30631	Schoonmaker 29673	Scully A 27575	Sequeira M de 32101	Shewell-Cooper 27685
Scheer C 26889	J W	Scully R M 27576	O M	W E
van der	Schoop G 29727	Scurti F 30303	Serben E 27684	Shewell-Cooper 33249
Scheer C 26890	Schoorel A F 27803	Seale J K 30388	Serchi G 31061	W E
van der	Schoppmeyer 31781	Seals D 32231	Serebriakov P N 29029	Shields M 31783
Scheerlinck H 26575	Schor 33262	Seals D 32232	Serebriakov V A 30028	Shields P G 27585
Scheffer R P 26499	Schott R G 29157	Seals W F 32626	Seren E 29336	Shimen Y 29064
Scheibner F 28048	Schou L 26942	Seara C 28040	Sergeev P 31143	Shin T 26174
Scheidnig C 29931	Schramm G 26546	Seath D M 29209	Sergent E 30733	Shingler G P 28805
Scheller U 26130	Schräpler 31826	Seaton J S 27577	Sermonti G 26639	Shinners L H 26131
Schelphe 26597	Schreiber O 29158	Sebelin C 33504	Sermonti G 26640	Shinners L H 26132
E A C L E	Schreier G 30634	Seborg R M 28954	Serrano 28328	Shinners L H 26133
Schember V E 27107	Schreiter G 28515	Sechrist E L 33001	Vicens R	
Schenck H E 33111	Schrier J 29919		Sers J 28143	
			Sersanous C I 27581	



Item	Item	Item	Item	Item
Shinners L H 26134	Singletary C B 29210	Smith L P F 33467	Southern Cali- 27242	Stark A 27339
Shipe W F Jr 31784	Singleton G 32314	Smith M O 32987	fornia Floral 31728	Stark L 31729
Shipton M E 26895	Singleton W R 26700	Smith N F 28367	Association 31600	Starkov I D 29525
Shirkhade J G 28274	Sinha K C 29820	Smith P B 31147	Southern Rho- 29525	Starr M P 26480
Shiroishi T 30763	Sinha K C 29821	Smith P F 26853	desla Central 31200	Stater V L 32180
Shirreff Mrs 29963	Sinha N P 26642	Smith R M 28095	African Statis- 31528	Staub M 31529
W H 29986	Sinibaldi A 33292	Smith S B 29676	tical Off 31468	Stearns C R Jr 30848
Shirreff Mrs 29986	Sinodinos E 29030	Smith S E 29211	Southworth H M 32430	Stearns C R Jr 32247
W H 29986	Sinskafa E N 26045	Smith S G 30641	Souza A O de 33117	Stearns F W 26012
Shishkin B K 27733	Siqueira R de 33539	Smith S R 32235	Souza P C de 27806	Steckhan H 28533
Shishkin E A 30444	Siqueira R de 33550	Smith V R 29234	Souza W 28047	Steden A 33308
Shivapuri T N 27739	Sironval C 31336	Smith V T 28237	Souza W W C 32112	Steel J 28659
Shively A W 30194	Sirotti G 27032	Smithsonian In- 33333	de 28145	Steel J D 29474
Shlomo 29065	Sisler H D 26745	stitute of 28145	Spagnolo V 29162	Steele A 31860
Shoeman J D 29254	Sisler H D 26851	Social Anthro- 29162	Spangler R E 27821	Steele J H 29342
Short G M 32709	Sittig O 30640	pology 27821	Spannagel G 29032	Steere R L 26553
Show S B 28293	Sivaraman V 32936	Sparapani G C 29032	Sparrow A H 26703	Stefanski W 30131
Showalter A M 26698	Skau E L 32103	Sparrow A H 26703	Speaight W L 27070	Stefoni G 31502
Shrader H L 31176	Skepper A H 28043	Speaight W L 27070	Spear E W 29873	Stegenga T 29033
Shrivastava 32628	Skinner H L 29488	Speck J J 30466	Speck J J 28399	Steib R J 26464
R C 29410	Skjaervold H 29160	Speer J 28399	Speer J 28567	Stein E 32535
Shtelman S I 29410	Skovgaard K 33116	Speer J 28567	Spetnle X 31851	Steinberg A W 32110
Shukla D D 30734	Skutch A F 27805	Spetnle X 31851	Spencer L 31828	Steinberg R A 26856
Shultis A 26210	Skutch A F 28081	Spencer L 31828	Spera L 30446	Steller A W 27590
Shultis A 33210	Slaats M 27740	Spera L 30446	Sperry O E 26855	Stelling H 32976
Shurkus A A 32598	Slade M 26922	Sperry O E 26855	Spezial F 29411	Stelzner G 26554
Shutak V G 28080	Slade M 27864	Spezial F 29411	Spies H J 29937	Stenar H 26139
Shuttleworth D 33402	Slade M 32108	Spies H J 29937	Spies M C 26830	Stephan H 29034
Shvetsova A N 30304	Slagle A B 32104	Spies M C 26830	Spies T D 33517	Stephan H 32431
Sibold N V 31004	Slater C S 27838	Spies T D 33517	Spith H T 30735	Stephens C 29491
Sibold N V 31012	Slater C S 27839	Spith H T 30735	Spina P 26730	Stephenson A 26599
Siddiqi R H 31785	Slater J A 30846	Spina P 26730	Spinney G G 32711	Stephenson R E 27890
Sidgewick J B 33663	Slavin G 31795	Society for the 28349	Spisni D 32630	Stephenson T A 26599
Siebenelck 32185	Slawson H H 28044	Protection of 28349	Spitzer R R 28943	Steppler H A 27157
Siebert L 33637	Sleeth B 26442	New Hampshire 26047	Spivakovskii N D 28048	Stere J B 31321
Sieburth L R 26852	Sleeth B 26572	Forests 26047	Spoon W 28679	Sterelny I A 28193
Sieghold F 31827	Slein J B 29979	Society of 28294	Spoon W 30307	Stern E G 28871
Siegrist H 30639	Slinger S J 29822	American 28294	Spotts E K 31786	Stern J 26049
Sierra Serrano 29159	Sloan G D 28045	Foresters 30847	Spraggs P F 33406	Stern J 32740
D de la 32975	Sloccock W 27587	Committee on 27033	Sprague R 26444	Sternberg J 31787
Sljtsma P 32975	Sluismans 26899	History of 27033	Sprenger J J I 31997	Stessel G J 26243
Sikka L C 29337	C M J 28397	Forestry 30847	Sprenger J J I 31998	Stessel G J 27891
Silbermann H 31726	Smagin V N 28397	Sodhi G S 30847	Spurling M B 28146	Stevens G E 32852
Sill W H Jr 26551	Smaldone J R 26011	Soeda M 26020	Squintani V 29412	Stevens H 33407
Silva J B V da 26699	Smet A 32949	Soenen M 27033	Srinivasan K H 31663	Stevens H B 32315
Silva J F da 33686	Smetnev S I 29935	Sohn A W 28953	Sroka K H 27741	Stevens J 29691
Silva R N da 28042	Smit F G A M 31090	Sokoloff B 33572	Stace-Smith 26279	Stevens O A 26857
Silva C R 30934	Smit P 32949	Sokolov G V 29546	Stacey C G 29677	Stevens O A 30196
Silva Goytia R 29338	Smit P 32950	Sokolovskiy W 29031	Stacey C G 29678	Stevens V C 31587
Silveira G G da 26552	Smith A C 29513	Solaroli V 30306	Stacey C G 29824	Steward J S 29035
Silvernall H E 31146	Smith A H 26196	Solaroli V 31006	Stacey C G 29938	Steward J S 29036
Silversides C R 28782	Smith B J 28454	Solbraa A 31527	Stacey C G 29939	Stewart A B 28049
Silvestri F 30305	Smith C E 29437	Soldani R 28046	Stacy C 33003	Stewart C D 28100
Silvestri F 30513	Smith C E Jr 26046	Soliman K N 29823	Stadelmann J 33326	Stewart C E 33212
Silvestri F 30514	Smith C F 26136	Solis J A 29490	Staehelin M 26224	Stewart D M 33250
Silvestri F 31087	Smith C F 32710	Sollberger W 31727	Staf C 33118	Stewart G 27743
Silvestri F 31088	Smith C S 32428	Solov'eva M A 27337	Stafford E M 30515	Stewart J M 33649
Silvestri F 31089	Smith C S 33211	Sommer K 27449	Stafford J 27742	Stewart M C 29254
Simmonds F J 26850	Smith C S 33403	Sommerkamp 29729	Stafseth H J 30110	Stewart W I 29729
Simmonds N W 26135	Smith D L T 29334	G 31320	Stahmann M A 26427	Stewart W L 29212
Simmons F C 28603	Smith D L T 29489	Sommerkamp G 31487	Stakman E C 26445	Steyn D G 27807
Simon M 27998	Smith D L T 29534	Sommerkamp G 31996	Stalder F 32901	Steyn T J 30072
Simon N 32629	Smith E J 28144	Songcuan M S 29936	Stallings J H 28192	Stice N W 26210
Simonart A 32947	Smith E J 33293	Sonnenmann T 33138	Stamm A J 28954	Stier T J B 26840
Simonds P W 31667	Smith F O 26443	Sonoda Y 26020	Stamm A J 28956	Stifel W 31377
Simonen S 33263	Smith G A 31005	Sonwalkar M S 27286	Stamm E P 28350	Stigloher M 31942
Simpson A K 27586	Smith G G 26137	Sooder M 30445	Stamm E P 28604	Stille B 26858
Sims A J 33226	Smith G G 26138	Soost R K 26703	Stamm G G 28111	Stillwell F 27591
Sims I H 32102	Smith H 27583	Sorembe J 31347	Stanfield J F 26049	Stine O C 31488
Sincock R L 29339	Smith H 33466	Sorensen I 27636	Stanichevski S 27219	Stippler H H 31368
Sincock R L 32773	Smith H H 26701	Sorgato I 32851	Stanton B E 33463	Stirewalt M A 29621
Singh D P 28474	Smith H V 33661	Sotavalta O 30195	Stapledon Sir 33191	Stobbe P 27905
Singh G 29613	Smith J 31853	Sotter A L 31941	Stapleton H N 33664	Stock C C 26726
Singh J 26559	Smith J A B 29340	Sousa J S I de 32154	Stare F A 31586	Stockdale A 27592
Singh K 27886	Smith J H G 28393	Soutar D S 31285		Stocklein F 30905
Singh R 27156	Smith J T 28576	Southern W 33405		
Singh S D 33679	Smith L 26852			
Singh T C N 26641	Smith L 32026			
Singh T J 28191	Smith L M 30515			



Item	Item	Item	Item	Item	Item
Stockman M J R 29514	Sulzbacher W L 32507	Szkolnik M 26451	Test R J 32236	Thompson W L 30848	
Stöckmann K 32432	Sulzberger J J L 29438	Szyfres B 30517	Testa J 31671	Thompson W R 27162	
Stodart J A 31530	Sülze L 28295	Taaffe J 30450	Testa J 33507	Thompson W S 28420	
Stoddard E M 33004	Sumagui J O 32845	Tabb W R 33163	Teston A 32492	Thomsen H 31730	
Stoddard E M 26446	Sumanov E I A 27034	Tabel 29515	Testore F A 32105	Thomsen H 31731	
Stoddard E M 26447	Sumpf K C 30448	Tablante N B 33214	Tettamanzi A 32855	Thomsen H 31732	
Stoddard L A 27158	Sunley J H 31455	Tacke 32155	Teunissen G H B 29041	Thomsen M 30648	
Stoeckeler J H 28455	Suomela H 27808	Tacquet A 29271	Teunissen P H 32434	Thomson A G 28690	
Stoeckeler J H 28503	Suppini A 28147	Taevernier A 33506	Teuscher H 27595	Thomson A G 32237	
Stoeckeler J H 28785	Surányi P 31007	Taggart J I 29940	Teuton F L 31456	Thomson G H 27161	
Stoennen H G 29300	Surchamp H 28296	Tagliaferrì L A 33408	Texas Agricultural and Mechanical College School of Engineering 31419	Thomson G I 31772	
Stoennen H G 30047	Surin P I A 30096	Tahmisian T N 31045		Thomson G I 31790	
Stoffels C 31861	Sussman O 29038	Tahmisian T N 31046		Thomson G I 31791	
Stohl G 30906	Sussman O 32717	Tahmisian T N 31047		Thorburn J 29732	
Stokes D R 32255	Suter P 30850	Takahashi Y 30309		Thornber C 29941	
Stokes D R 32260	Sutherland A K 29800	Takahashi H 30781		Thornberry H H 26502	
Stokoe W J 26145	Sutton T S 29174	Takematsu T 26864		Thornberry H H 26555	
Stolp P M F 26859	Suzuki K 28872	Talce D 31788		Thorndike G H 32107	
Stolwijk J A J 26888	Suzuki K 29730	Tallarico G 27382		Thorne G 26578	
Stone F C 30016	Svenska Institutet för Konserveringsforskning 32171	Tallarico G 28351		Thornton H 33413	
Stone W A 28786		Tallarico G 29213		Thornton H G 27892	
Stoops D 31489		Tamari C 28400		Thur K 29942	
Stooss H 33119		Tamm C O 26600		Tiberlo M 28927	
Stopiglia A V 29476		Tamura J 27035		Tibbantz J 29343	
Storms J 32853		Tandon R K 26959		Tibbantz J 29344	
Stough J 28194		Tanimura T 28738		Tico L 28052	
Stoumont A D 28215		Tanner V M 30644		Ticquet C E 26868	
Stover R H 26448		Tannière G 30018		Ticquet C E 26869	
Stover R H 26576		Taran A F 30028		Tiedjens V A 27691	
Stowasser S 28940		Tarantola C 31670		Tiemann H D 28660	
Straatmans W 27908		Tardieux P 29018		Tiffany L H 26456	
Strachan J 33213		Tarkow H 28856		Tikhomirov B A 26870	
Strandine E J 32506		Tarver D 29163		Tilden J W 30649	
Straneo S L 30642		Tasch 33212		Tilemans E J 30310	
Strasburger L V 32251		Tate E B 33532		Tillmann H 29345	
Strasser F 33638		Taton A 27159		Tilquin M 27186	
Straub W F 31531		Tatum L A 26971		Timmons F L 27744	
Stream J 30120		Tauber O E 30193		Timmons J F 33294	
Street R T 30048		Tavernier J 32316		Timofeev B Z 28945	
Streeter J R 30447		Tavernier J 32317		Timon-David J 30736	
Streets R B 26449		Taylor A J 28275		Tindall C 31103	
Streicher E 33120		Taylor C C 28195		Tindall C 32938	
Streif K 31829		Taylor C C 33409		Tingey D C 27744	
Strenzke K 30516		Taylor D R 28401		Tipton B 33414	
Streshinski M O 26050		Taylor F H 26210		Tipton V J 31092	
Strobel D R 31855		Taylor G S 26452		Tischler W 30311	
Stroganov A K 27687		Taylor G W 28196		Tischler W 30737	
Strohbücker K 31490		Taylor H M 31528		Tissières A 26871	
Strommer J 33469		Taylor J 30019		Titta G 27840	
Strong P 27593		Taylor P R 33639		Tivirkov S 31733	
Stroop H E 27594		Taylor T P 28197		Tivoli M 33005	
Stroud C P 30197		Tchetvéroukhine B 32433		Tobler F 32108	
Stroud C P 31091		Teagle W 31491		Todd A C 29559	
Stroyan H L G 30849		Teas H J 26705		Todd A C 29607	
Strunz 32977		Teas H J 26910		Todd A C 29826	
Strunz H 32978		Teatini D 32854		Tokareva R R 32403	
Stryckers J 27740		Teesdale C 30786		Tokida J 26175	
Stryszak A 29037		Telfer W H 31008		Tokunaga M 30650	
Stuckey W E 31322		Téllez Molina R 28050		Tol Filho P L 30452	
Studer O 33327		Temnov V A 30451		von Toledo Area 30788	
Studieselskapet for Kosthold og Helse 27668		Templeton G S 29967		Sanitary District 31500	
Stull J W 31943		Templeton G S 29968		Tollenaar F D 33534	
Stumpel J M H 26860		Ten M P 30049		Tolley G 32493	
Stumpf P K 26932		Ten Eick M N 26070		Tolley H R 33122	
Stumpf W 28855		Tenhumberg 33411		Tolner J 27163	
Sturm H 32631		Tenåkov A I 32988		Tomashov V 27241	
Sturzenegger A 32631		Tennessee 31323		Tomhave W H 33620	
Stutz L 30308		University College of Agriculture 31323		Tomlinson N 26872	
Stutz L 33600		Agricultural Extension Serv 26706		Tommey A 29943	
Stuurman S 31874		Ter-Avanesian D V 29040		Tompkins C M 26457	
Stuven C 30017		Terache 32713		Tompkins C M 26547	
Subba Rao M S 26026		Termohlen W D 28193		Tompkins C M 26549	
Subramanyam K 26643		Terra H de 28189		Tompkins C M 26556	
Suchet-D'Albura L 28801		Terra Arocena E 28189		Tondeur R 26934	
Sugg R S 28953				Tonini G 27037	
Sullivan L R 32712				Toop C R 29346	
				Toril S 31395	



	Item		Item		Item		Item		Item
Torrens Pastor A	29042	Turner D	32546	United Nations Economic and Social Council	33508	Upshaw W E	32719	VanLandingham E P	33296
Torres J di P	28082	Turner G E	31481	Economic Com-		Urbano	32981	Van Melle P J	27600
Torres Filho A	33123	Turner H D	28957	mission for		Fernández R		Van Meter L	29527
Torres Juan J	27164	Turner H J	31010	Latin America		Uruguay Direc-	31593	Vanneck C	32636
Tosello A	31148	Turner Sir J	31492	United Nations	31601	ción de Agro-		Van Rensburg	28891
Tóth L	30198	Turner Sir J	31493	Economic Com-		Uruquay Direc-	30051	SW J	
Totman J E	28233	Turner W E	27149	mission for		ción General de		Van Roekel H	29828
Toumanoff C	30453	Turner W L	32979	Asia and the		Ganadería		Van Roekel H	29829
Tourtellotte W W	29493	Turner W L	33295	Far East		Uruha C	30607	Van Wyk H P D	29413
Tous Coll D	26873	Tursukov V K	30455	United Nations	31601	Uschdraweit	26460	Vappula N A	30652
Tove S B	29529	Turvey K	27166	Statistical Off		H A		Varenik I P	28606
Toxopeus L J	31009	Tuttle G	29526	U S Bur of	28252	Ushakov A A	29935	Vargas L	28948
Tôyama S	27692	Tuxen S L	31093	Labor Statistics		Ussinger R L	30807	Vari L	31011
Trabauer F	28053	Tveit M	26458	U S Congress	32716	Ussinger R L	30853	Varma H P	26878
Tracy P H	31943	Twerdal M P	28430	Senate		Utah Big Game	28538	Varma S C	26461
Tramer J	31792	Tyagi B P	27739	Committee on		Livestock and		Varney E H	26558
Tramontano T	30454	Tyler W G	29114	Agriculture		Range Relation-		Vasconcelos	33544
Trapido H	30760	Tyler W J	29165	and Forestry		ship Project		J F de	
Trappmann	29416	Tyrer T G	31831	U S Dept of	28680	Research Com-		Vasil'ev K A	31051
Trebbi T	27289			Commerce		mittee		Vasil'ev P P	28456
Treccani C P	26874	Ueda K	30312	U S Dept of	33125	Utah State Soil	28202	Vasil'ev P V	28334
Treiber E	32097	Uganda Tsetse	30738	State		Conservation		Vasil'kov B P	26053
Treloar L R G	32740	Control Dept.		Div of Library		Committee		Vasudeva R S	26559
Tremblay R H	32714	Uhlen R	33471	and Reference		Utida S	30589	Vatter A E	26502
Trémolieres J	33541	Uhmman E	30651	Serv		Uttaman P	26877	Vatter A E	26555
Trenchi H	29927	Uitewaai A J A	27597	U S Economic	33509	Uvarov B P	31048	Vaugh M	26960
Trenchi H	30517	Uitewaai A J A	27599	Cooperation		Uvarov B P	31049	Vaughn E K	26279
Trendtel	31793	Ulanov G G	30456	Administration				Vaughn J R	26280
Trepachev E P	28054	Ulsheden T	32857	Div of Statistics		Vaartaja O	28505	Vaurie P	30653
Tret'fakov N P	29944	Ulrich H	32435	and Reports		Vacherot	27599	Vaux H J	26601
Treuhold H	27643	Ulrich K	29495	U S Farm	33007	Vaeck S V	32634	Vavich M G	29733
Trew C G	26644	Ulrich K	29496	Placement		Vagliasindi P A	30457	Vayssiére P	30317
Trew E M Jr	27165	Ullstrup A J	26277	Serv		Vago C	30199	Veale M	31735
Tribble R T	28148	Ulrich R	27340	U S Geological	28149	Vahala J	28224	Veatch C	27170
Triest F J	31672	Ulrich R	32318	Survey	28150	Vallant A	27039	Vecht J van der	30907
Triola P de la	27289	Ulrich R	32319	U S Geological	28151	Vallant F	30740	Vecht J van der	31015
Tritscher	31325	Umbrecht J	31862	Survey		Vainer M	31275	Vedani A	31674
Troifskaf A E P	30377	Underhill G W	31012	U S Geological	28152	Vainer M	31276	Vedrenne J	28637
Troifskif I A	30050	Uniol R	27824	Survey		Vaisman A	26027	Veen R van der	26879
Tron E	29494	Union de Ban-	33124	U S Geological	28153	Valtsman J	29417	Veenbos J S	27909
Tropin I V	30851	ques Suisses		Survey		Valtsman J	29947	Veersen G J van	32755
Trousdell K B	28504	U S S R Glavel'	31369	U S Munitions	31420	Vakhrameev K A	29547	Vellet J	26027
Trout G M	31945	elektro		Board		Vakul'uk G	28506	Velisseyre M R	31741
Troutman J	26488	U S S R Sovet	32496	Textile Forest		Valadao F G	29347	Velbinger H	30318
Truax H	29680	Ministrov		and Agricul-		Valdes Barry F	30213	Velbinger H	30654
Trudol'bov B A	29066	U S S R Sovet	32980	tural Products		Valdes Barry F	30316	Veldsman D P	28802
Trufanov A A	28605	Ministrov		Br		Valdés	33473	Vélez Herrera F	30772
Trumble H C	26875	U S S R Sovet	33217	U S National	28333	Fontecilla M		Ven R van der	32891
Truog E	28223	Ministrov		Forest Reser-		Valdeyron G	27039	Veneroso A	26935
Trussell P C	26872	U S S R Ver-	33006	vation Com-		Valdez E	32859	Venezuela Di-	31604
Trüstedt H	28568	khovnyi Sovet		mission		Valdinoci M	28947	rección Gene-	
Truter G J	30029	Prezidium		U S Tariff Com-	33510	Valentin J	28055	eral de Estadís-	
Tschechne G	26876	United Fresh	32156	mission		Valeri G M	32860	tica	
Tseng P M	27208	Fruit and Veg-		University Col-	33251	Valle R del	31050	Venkataramani	26936
Tsubokura M	30205	etable Asso-		lege of Wales		Valle R del	32442	KS	
TSynkov M I U	32494	ciation		University	33252	Valle R H	32635	Venkataramani	26200
TSynkov M I U	32495	United Fresh	32157	College of		Valle T	32162	S V	
Tu D S	26334	Fruit and		Wales		Vallin H	26071	Ventz E	28475
Tucker H	29215	Vegetable		Aberystwyth		Valsecchi O	28217	Venzke W G	29348
Tuckey S L	31946	Association		Agricultural		Valsecchi O	32265	Verbeke	31220
Tugade P	33197	United Nations	31601	Economics		Valsecchi O	32266	Verbelen L	33511
Tugman J L	31378	Dept of Eco-		Dept		Van Bavel	27841	Verdeyen J	32001
Tukey H B	27290	nomic Affairs		University Col-	33246	C H M		Verdier P	30655
Tukey L D	26893	Statistical Off		lege of Wales		Van Cleve R	29216	Verdier P	30626
Tullin V	32856	United Nations	32939	Agricultural		Van Clute J	27341	Verdier P	30656
Tullis E C	30221	Economic and		Economics		Vandemark N L	29152	Verge J	29271
Turnerman A	31274	Social Council		Dept		Vandenput R	31673	Vergnaud P	31588
Tunisla Serv	26105	Economic Com-		University Col-	33247	Van der Kloot W	31013	Verhaar G	32757
Botanique et		mission for		lege of Wales		Van der Merwe	26557	Verheyden F	31675
Agronomique		Latin		Agricultural		G		Verma A B S	26880
Turk F A	30519	America		Economics		Van der Merwe	32487	Verma G	26719
Turk K L	29164	United Nations	32940	Dept		J A		Vermaat J G	27872
Turk K L	29211	Economic and		University Col-	28946	Vanderwalle R	26543	Vermeil C	30789
Turkey World	29945	Social Council		lege of Wales		Van Der West-	30052	Vermeulen W	31736
Turnbull J S	31734	Economic		Dept of Agri-		huizen G C A		Vermont Uni-	31737
Turner C N	31326	Commission		cultural Eco-		Vandewyer R	32861	versity and	
Turner C W	31178	for Latin		nomics		Vandewyer R	32862	State Agricul-	
		America		Unrau J	27168	Van Doren C A	28203	tural College	
				Upchurch M L	27169	Van Horn D L	27810	Vernia R L	31043
				Upp C W	29729	Van Horne R L	26052		
				Uppal B N	26199				



	Item	Item	Item	Item	Item	Item	Item		
Verona O	26281	Volkov A N	30319	Walter F X	29746	Webb R	32262	Westphal W	31501
Verran R F	29734	Volkova M S	27694	Walter F X	29747	Webb R W	27609	Wetzel A	28058
Verwey W F	29044	Vollema J S	27813	Walters C S	28477	Weber A R	31863	Wetzel W	26023
Vessereau	27220	Voloss C	29758	Walters H J	26561	Weber C W	31943	Weurman C	27342
Vetchinkin M N	29410	Voloss-Mialhe C	29978	Walther A L	30102	Weber G	27610	Whallon A P	27745
Veyrenc H	27601	Von Oppenfeld H	32909	Waltner J	31372	Weber G F	26307	Wheeler G C	30909
Vezzani V	29735	Vorob'ev V	31947	Walsh F E	29166	Weber G F	26366	Wheeler H E	26692
Vezzani V	30100	Vorobyov N	33129	Walsh M P	26884	Weckel K G	31742	Wheeler H E	26892
Viada L E	31676	Voronkevich I V	26498	Walzer L	31149	Weeks G W	30502	Wheeler R S	31179
Viale E	30657	Voropanov P V	28476	Wander J F	31150	Wegelt W	28692	Wheeler R S	32724
Viale E	30854	Voroshil'skii	30453	Wandl H	27697	Wegemann W	31738	Whellan J A	30744
Vicard A	29349	A IA		Wangerin A	32322	Wegener K A	31739	White A N	26285
Victor B	31384	Vorreller L	28858	Wanner E	31678	Wegge W	32723	White D G	26893
Victor Products Corporation	31589	Vorster P W	27695	Wanson M	30742	Wei C T	26493	White E A	29356
Vidal A A	26881	Vorstermans H G P	32992	Wanstall P J	26646	Weidner E	26707	White E D	32116
Vidart D	33323	Voss A W	28740	Ward G W	29351	Weigt E	28205	White E P	32465
Vieck G	29497	Voss H	27696	Ward R W	31423	Weingarten H	28640	White F	28352
Vieck G	29493	Vostroknutov S P	31221	Ward W B	29419	Weinmann H	27175	White H C	27822
Vieira C	32158	Vries H de	32186	Ward W B	31328	Weir J R	27969	White J C	31847
Viel G	30954	Vsesofuznaia	32980	Ward-Brew A	30218	Weir R	27932	White J L	27873
Vieregge G	27693	Kommunisti-		Ware R R	33219	Weir R	28534	White M	32725
Viette P	31016	cheskaf Partia		Wareing P F	26885	Weir T S	27293	White M J D	30745
Viette P	31017	(bol'shevikoy)		Waris H	26647	Weis-Fogh T	31053	White N H	26650
Viette P	31018	Tsentral'nyi		Warne L G G	26886	Welser H H	31448	Whitehair C K	30116
Vignoli L	32321	Komitet		Warner I	32014	Weiss E	29479	Whitehair C K	30132
Vignon A	32863	Vytchikov A I	27171	Warren C C	32721	Weiss E	29479	Whitehead E L	27387
Vilanova M T	27811			Warren S	31590	Weiss F	31832	Whitehead G B	30286
Vilardebo A	30658			Wartiovaara V	26887	Weiss F	32447	Whitehead G B	30935
Vilkomerson H	26645			Warwick E J	28888	Weiss F A	28216	Whitfield C J	27721
Villegas G C	33640	Waas G J	33474	Warwick E J	30085	Weiss H	28951	Whitfield W R	29949
Villeneuve P	29830	Wacha R	28569	Warwick G W B	31679	Weiss M G	26722	Whithed M O	31380
Villiers A	30807	Wade G C	26283	Washington State	29831	Weiss L	26724	Whiting A R	31020
Villiers A	30855	Waeser B	31791	College		Weissinger W R	26724	Whiting P W	30910
Vinals J M	31677	Wagenaar G	29350	Poultry Council		Welting C	27611	Whitten R R	26450
Vincent G	28429	Wagenseller K	28253	Washington	28691	Welborn J C	29354	Whittenberger	32181
Vincent G	32719	Waggoner P E	26462	University In-		Welch F J	33008	R T	
Vine M	31435	Waggoner P E	26463	stitute of		Welch W H	26168	Whittinghill M	30746
Vine V	32720	Wagner F	32261	Forest Prod-		Weleczka	31277	Whittle T E	29950
Vineyard O	27602	Wagner J B	28752	ucts		Wellensiek S J	26708	Whittles C L	27874
Virginia Advi-	28335	Wagner M W	33130	Wasscher J	27604	Wellman F L	26470	Wiame J M	31680
sory Council		Wagner P	28507	Wassenaar T	28204	Wellman F L	26471	Wichita Union	32523
on the Virginia		Wagner R P	26882	Wasserman T	31545	Wellman F L	27046	Stock Yards	
Economy		Wahid M A	26461	Wassink E C	26889	Wells J S	27612	Wickard C R	31373
Virginia Uni-	32028	Wahlen H	33329	Wassink E C	26889	Wells O V	33688	Wickard C R	31374
versity		Wahlfisk K O	31527	Watanabe F S	28018	Wels	27294	Wickenden H	27209
Bur of Popu-		Wahlin B	30459	Watanabe Y	29681	Welz O	31856	Widdowson R W	29281
lation and		Walbel C W	26284	Waterhouse D F	30743	Wenck F	27295	Widmer R	32180
Economic Re-		Walness H	31327	Waterhouse	26469	Wenckebach W E	30460	Wiechers S G	31949
search		Waisman I	28508	W W		Wendel K	26891	Wiecking E H	32220
Virtanen A I	28949	Wakaki R	32445	Waters W T	28425	Wene G P	26285	Wiedemann E	28369
Visser D F	27297	Wakeham H	32114	Waterston D L	29949	Wene G P	30521	Wiegand K H	32449
Viswanathan R	32159	Waksman S A	26054	Watkins J M	28057	Wene G P	30522	Wieggers G W Jr	31151
Vitale G	27072	Waksman S A	26055	Watkins J V	27605	Wene G P	30856	Wielandt H U	28683
Vitums A	29603	Walcott B B	31422	Watkins J V	27606	Wenke H U	28337	Wielen M G W	33419
Vleeschauwer A	31796	Waldkirch E v	29039	Watson C J	30103	Wergin W	26649	van der	
de		Waldmann O	29045	Watson E R	27036	Werner G A	32506	Wiersma J H N	26472
Vleeschauwer	31901	Wales K	29609	Watson E R	27174	Werner T H	28790	Wiesendanger H	29217
A de		Walker A	27292	Watson E V	26648	Werren F	28973	Wiesmann	30321
Vlies G S v d	32864	Walker A H	27172	Watson J	26937	Werth F M	32115	Wiesmann R	30747
Vlies G S v d	32865	Walker B S	27931	Watson R C	29632	Wertman F L	27176	Wiggins I L	26140
Vlodavefs I	31749	Walker C	27603	Watson R C	29683	Weseth G	31222	Wigglesworth	30200
Vochelle-J	33219	Walker C K	32286	Watson Sir J S	31423	Wessels N G	30004	V B	
Voelcker O J	27812	Walker J C	26467	Watson S J	28950	West C J	28791	Wight J	31792
Voelskow P	28621	Walker J C	26468	Watson W P	32497	West J	27814	Wilbur D A	26971
Voelskow P	28622	Walker L H	32290	Watt J A	29091	West R K	33417	Wilckens	28403
Voelskow P	28638	Walker M	33642	Watts L F	28336	West W J	31423	Wilcox H H	29537
Voets J P C	26282	Walker R S	26201	Watts P S	29352	West W R	29499	Wilcox R W	32240
Voevoda D K	31224	Wallace B	30741	Waugh D F	29353	Westberg D L	28457	Wilde J de	30201
Vogel F H	28639	Wallace D B	30101	Way M J	31019	Westbrook W W	33131	Wilde J de	30660
Vogel S L	32443	Wallace E C	26167	Waygood E R	26938	Westerlund A	33574	Wilde O	28892
Vogel W	30908	Wallace J J	33294	Weale K M	27607	Westermann W	32239	Wildeman E de	26056
Vogelgesang H	28577	Wallace J M	26560	Wear J I	27873	Western Farm	32922	Wiles A B	26468
Vogler J	32160	Wallace M E	29767	Weatherby H	28297	Economics		Wiles A B	26500
Vogt G B	30659	Wallin J R	26465	Weatherby H	28525	Association		Wiley J R	30085
Vogt R	32444	Wallin J R	26466	Weatherford	27608	Western States	32966	Wiley R H	32637
Vogt W	32160	Wallis R G	32446	R V		Machine Co		Wilgus H S	29774
Vogt W	32331	Waloff N	31052	Weaver H A	27842	Westhues M	29610	Wilharm G	31681
Volk G M	28056	Walp R L	26883	Weaver L E	32722	Westly E T	32867	Wilhelm A F	26894
		Walpole L J	27173	Webb J E	30320	Weston S	28234	Wilhelm S	26476
		Walter F	28368	Webb J E	31094	Westphal W	29355	Wilk	32002



Item		Item		Item		Item	
Wilkins J R	31507	Wilson W K	29969	Wood A L	33135	Wyoming State	28207
Wilkinson R A	31152	Wilssens A	31796	Wood D C	29254	Soil Conserva-	
Wilkinson R E	26542	Wiltshire G	26286	Wood G B	31811	tion Com-	
Willatme G	32863	Wiltzer A	29952	Wood G B	31813	mittee	
Willcox J S	31430	Wilwerth A M	29357	Wood G B	32703		
Wille T J E	30322	Wilwerth A M	29358	Wood G B	32727	Yabu T	30285
Willers E H	29737	Wilwerth A M	30133	Wood K	26288	Yacowitz H	29716
Williams C M	30990	Wilwerth L M	29324	Wood K B	28433	Yamada B	31287
Williams C M	31001	Wimsatt W A	30053	Wood L B	28479	Yamada K	32499
Williams C M	31003	Winkel D	32120	Wood S F	30857	Yanagida C	31058
Williams C M	31008	Winge O	26709	Wood S F	30858	Yang S H	29263
Williams C M	31013	Winkelmann	27296	Wood W J	32121	Yang S H	29264
Williams D E	29709	Winkelmann	28059	Woodbridge C G	26899	Yao H	29050
Williams D H	27613	Winkler G	28893	Woodbury N H	30212	Yarham E R	28526
Williams E W	32323	Winkler W	30461	Woodcock A H	26176	Yarwood C E	26476
Williams J	32449	Winkler W	30462	Woodfield F A	30202	Yarwood C E	26563
Williams J C	29794	Winkler W	28741	Woodforde J	31237	Yarwood C E	26899
Williams J E	29832	Winder E S	29953	Woodford H A	28060	Yates B	29421
Williams L F	26651	Winner E B	31180	Woodroffe G M	30134	Yoder D M	26900
Williams S	26169	Winner E B	27871	Woodrow A W	30465	Yohe R	26477
Williams S	32117	Winsor G W	26287	Woods R	33545	Yohe R S	33222
Williams S	32118	Winter A G	26602	Woods R	33547	Yohe R S	33223
Williams T	32869	Winter H	30463	Woodward R O	27875	Yohe R S	33224
Williams T L	32119	Winteringham	30748	Woodbridge W R	29048	Yonaiyama T	27699
Williams W R Jr	29685	F P W		World Health	29049	Yoneda S	27843
Williams W T	26895	Winters R K	28298	Organization		Yorke K	29516
Williamson	26057	Winters S R	27177	Expert Com-		Yost H T Jr	26901
V H H		Wirth	31273	mittee on Rabies		Young C L	28208
Williamson W F	31237	Wirth	31605	World's Poultry	32728	Young D W	27718
Willigen A H A	26896	Wirth	32332	Congress 9th		Young F	30120
de		Wirth	32333	Paris		Young F N	30662
Willink A	30885	Wirth	32334	World's Poultry	29955	Young F W	29362
Willis E R	30661	Wirth	32450	Science Associa-		Young J R	29611
Willis J L	26830	Wirth	32498	tion		Young K	32717
Willis S J	27746	Wirth	32564	Committee on		Young M D	30761
Willis J E	33026	Wirth	33309	Egg Laying		Young P A	30523
Wilmot-Ware	28206	Wirth	29954	Tests		Young R S	26603
E V		Wirth K	31153	Worley L D	28154	Young T J	29500
Wilson A M	31740	Wirthgen H	33641	Wormley G W	27876	Young V M	29770
Wilson C D	31795	Wirthlin H	32726	Worth C R	26142	Youngblood O	32729
Wilson C E	31021	Wise H	28792	Worthington N P	28430	Ystgaard O M	31741
Wilson C G	27614	Wise L E	29548	Wöste G	33419	Youngblood O	32729
Wilson C W	31436	Witmer D	30464	Wrage W	28155	Ystgaard O M	31741
Wilson D F	26638	Witschi F	33253	Wragg S R	33254	Yuasa H	30749
Wilson E	29736	Witt	27615	Wray D L	31095	Yuill W J	29169
Wilson E	29951	Witt J	33132	Wren W G	32750	Yve Comte d'	32122
Wilson E	31236	Witt L W	28401	Wright D W	26416	Yve Comte d'	32









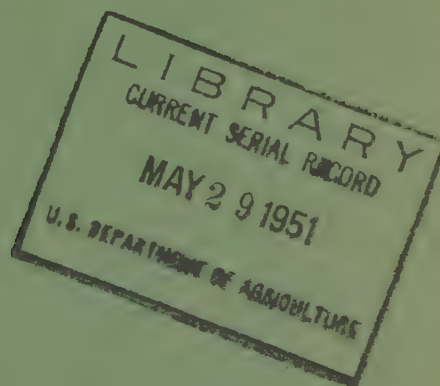


71  
14

# BIBLIOGRAPHY OF AGRICULTURE



U.S. DEPARTMENT  
OF AGRICULTURE  
LIBRARY





The subject index for volume 15 of the Bibliography of Agriculture will appear as number 12 of volume 15, the issue of December 1951.

Abbreviations used in this publication are from the United States Department of Agriculture Bibliographical Bulletin 12, List of Serials Currently Received in the Library of the United States Department of Agriculture, November 1, 1949. June 1950.

Call numbers following the citations are those of the United States Department of Agriculture Library. Please use them when requesting publications on loan from the Library.

Except for printed publications of the Department of Agriculture which are usually available in limited supply for free distribution, the publications listed herein are not available for free distribution from the Department. However, photoprint or microfilm copies of any publication listed may be obtained from the Library. Copying charges for each periodical article or book are:

**MICROFILMS:**

\$1.00 for each 50 pages or fraction thereof from a single article or book.

**PHOTOPRINTS:**

\$1.00 for each 10 pages or fraction thereof from a single article or book.

**ALL CHARGES ARE CASH WITH ORDER.** (Only Federal agencies are exempt.)

Enclose payment in cash, library coupon, check, or money order drawn to the Treasurer of the United States.

**LIBRARY COUPONS**—United States Department of Agriculture Library coupons valued at \$1.00 each may be ordered in any quantity.

The printing of this publication has been approved by the Director of the Bureau of the Budget. (Jan. 11, 1950).



UNITED STATES DEPARTMENT OF AGRICULTURE  
LIBRARY

BIBLIOGRAPHY OF AGRICULTURE

Vol. 15

May 1951  
Items 33689-41949

No. 5

CONTENTS

	Item		Item		Item
Plant Science	33689-35717	Soil Management	35813	Seasoning, Conditioning and	
Systematic and Geographic		Soil Fertility	35854	Finishing	36577
Botany	33774	Tilth and Tillage	35985	Wood Preservation and Damage	36586
Spermatophytes	33792	Drainage, Irrigation, Water			36599
Pteridophytes	33879	Supply, etc.	36004	Forest Products	
Bryophytes	33884	Erosion and Control	36075	Lumber and Rough Products	36605
Algae	33888	Sanitation	36134		36611
Fungi and Lichens	33898	Materials for Soil Improvement		Building Construction	
Pathology	33947		36141	Veneers, Plywood and	
Fungus Diseases	34055	Primary Materials	36145	Adhesives	36616
Bacterial Diseases	34177	Secondary and Minor Element		Furniture	36627
Virus Diseases	34188	Materials	36153	Containers	36629
Nematodes	34230	Fertilizer Statistics	36157	Pulp and Paper	36631
Ecology	34243	Mineral Soil Amendments	36172	Chemical Products and	
Morphology, Anatomy, and		Mixed Fertilizers and Fertilizer		Distillates	36643
Cytology	34267	Technology	36175	Naval Stores	36648
Genetics	34360	Manures and Composts	36181	Other Forest Products	36658
Physiology	34397	Forestry	36194-36697	Wood Technology	36677
Biochemistry	34567	General	36194	Properties and Structure	36690
Field Crops	34610	Education	36220	Animal Industry	36698-38142
Cereals	34643	Policies, Programs, Administra-		Breeds and Breeding	36698
Fiber Crops	34758	tion	36221	Feeds and Feeding	36711
Forage and Grasses	34790	Legislation and Taxation	36281	Veterinary Medicine	36801
Oil Crops	34938	Description and Resources	36284	Miscellaneous	36909
Sugar Crops	34960	Individual Genera	36301	Cattle	36930
Tobacco	34980	Forest Management and Finance		Breeds and Breeding	36930
Horticultural Crops	34988		36319	Feeds and Feeding	37067
Fruits	35029	Farm Woodlands	36355	Veterinary Medicine	37148
Citrus and Subtropical	35090	Mensuration	36369	Miscellaneous	37278
Deciduous	35120	Aerial Surveying and Photog-		Dogs and Cats	37342
Small	35162	raphy	36380	Breeds and Breeding	37342
Nuts	35232	Silviculture	36384	Veterinary Medicine	37360
Shade Trees and Ornamental		Silvicultural Practices	36408	Miscellaneous	37404
Plants	35242	Seeding and Planting	36430	Fur Animals - Pen Raised	37421
Vegetables	35461	Forest Protection and Damage		Breeds and Breeding	37421
Weeds and Poisonous Plants	35595	Fire	36471	Feeds and Feeding	37424
Miscellaneous	35666	Forest Influences	36514	Veterinary Medicine	37428
Soils and Fertilizers	35718-36193	Miscellaneous Forest Uses	36518	Miscellaneous	37438
Soil Science	35718	Forest Industries	36522	Horses and Mules	37444
Soil Physics	35725	Lumbering	36543	Breeds and Breeding	37444
Soil Chemistry	35737	Lumbering Equipment	36546	Veterinary Medicine	37482
Soil Biology	35764	Logging	36552	Miscellaneous	37526
Soil-Plant-Animal Relation-		Sawmills	36564	Laboratory Animals, Small	37546
ships	35790	Processing and Woodworking	36573	Breeds and Breeding	37546
Soil Genesis, Formation, Classi-				Feeds and Feeding	37548
fication, and Mapping	35796				

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.  
\$6.00 per year, domestic; \$8.00 per year, foreign. Single copies vary in price.



	Item		Item		Item
Veterinary Medicine	37549	Walls and Fences	39361	Seeds	40881
Miscellaneous	37551	Utilities	39366	Sugar and Sirups	40908
Poultry	37553	Electricity and Electrification	39366	Tobacco	40980
Breeds and Breeding	37553	Heating, Lighting, and Radiation	39387	Miscellaneous	40998
Feeds and Feeding	37600	Power Plants, Motors and Engines	39393	Agricultural Economics and Rural Sociology	41012-41744
Veterinary Medicine	37656	Sewage and Waste Disposal	39399	Agricultural Finance	41026
Miscellaneous	37746	Telephones	39401	Credit	41035
Rabbits	37868	Water Supply	39403	Income	41067
Breeds and Breeding	37868	Agricultural Products: Processing, Distribution, and Statistics	39409-41011	Inflation	41070
Feeds and Feeding	37875	Analysis and Composition	39432	Insurance	41072
Veterinary Medicine	37877	Consumption, etc.	39468	Taxation	41086
Miscellaneous	37890	Distribution, etc.	39479	Agricultural Labor and Wages	41109
Sheep and Goats	37894	Grading, etc.	39515	Agriculture - Situation, Policies, and Programs	41137
Breeds and Breeding	37894	Packing and Packaging	39535	Subsidies	41284
Feeds and Feeding	37951	Prices, etc.	39542	Cost and Standard of Living	41288
Veterinary Medicine	37963	Processing and Storage	39584	Farm Management and Land Economics	41289
Miscellaneous	37992	Statistics	39638	Bookkeeping and Records	41363
Swine	38010	Beverages and Condiments	39663	Costs and Returns	41371
Breeds and Breeding	38010	Dairy Products	39771	Land Settlement and Colonization	41409
Feeds and Feeding	38026	Analysis and Composition	39826	Land Tenure	41418
Veterinary Medicine	38069	Consumption, etc.	39861	Land Utilization	41455
Miscellaneous	38117	Distribution, etc.	39865	Land Values, etc.	41463
Entomology	38143-38980	Grading, etc.	39919	Population	41475
General - Economic	38165	Packing and Packaging	39946	Rural Social Organization	41485
Apiculture and Apis Mellifera	38314	Prices, etc.	39954	Human Ecology	41496
Arachnida, etc.	38434	Processing and Storage	39967	Institutions	41504
Coleoptera	38489	Statistics	40051	Leadership	41595
Diptera	38575	Feed and Forage Crops	40061	Rural Organizations and Movements	41597
Culicidae	38660	Fibers and Textiles	40113	Rural Social Psychology	41681
Hemiptera	38723	Fruits, Vegetables, and Nuts	40240	Trade, Foreign and International	41682
Hymenoptera	38800	Analysis and Composition	40282	Food and Human Nutrition	41745-41816
Lepidoptera	38828	Consumption, etc.	40293	Food Habits	41783
Orthoptera	38912	Distribution, etc.	40297	Nutritive and Vitamin Content	41787
Sericulture and the Silkworm	38933	Grading, etc.	40332	Miscellaneous	41817-41949
Smaller Orders	38945	Packing and Packaging	40349	History and Biography	41861
Agricultural Engineering	38981-39408	Prices, etc.	40363	Home Management	41904
General and Miscellaneous	38981	Processing and Storage	40368	International Relations	41908
Machines and Equipment	39004	Statistics	40442	Meteorology	41913
Animal Husbandry	39067	Grain and Grain Products	40447	Research	41924
Cultivation and Tillage	39102	Honey and Beeswax	40524	Statistics	41948
Fertilizer and Seed Distributors	39117	Livestock and Livestock Products	40537	U. S. D. A. Publications	p. 176
Harvesting	39140	Analysis and Composition	40601	State Agr. Expt. Sta. Publications	p. 181
Land Clearing Equipment	39168	Consumption, etc.	40612	State Agr. Ext. Serv. Publications	p. 184
Processing Equipment Used on the Farm	39171	Distribution, etc.	40614	Food and Agr. Organ. of the U. N.	p. 187
Repair, Maintenance, and Construction	39194	Grading, etc.	40642	AUTHOR INDEX	p. 189
Spraying and Dusting	39202	Packing and Packaging	40657		
Vehicles	39217	Prices, etc.	40660		
Structures and Rural Housing	39282	Processing and Storage	40668		
Animal Shelters and Service Buildings	39291	Statistics	40695		
Farmhouses and Farmsteads	39332	Oils and Oilseeds	40710		
Greenhouses and Plant Service Buildings	39344	Poultry and Poultry Products	40785		
Storage Structures	39356	Rubber and Rubber Substitutes	40855		

The printing of this publication has been approved by the Director of the Bureau of the Budget. (Jan. 11, 1950)



## PLANT SCIENCE

## GENERAL

- 33689 ABBOTT, H. T. John A. Finch Memorial Arboretum. Natl. Shade Tree Conf. West. Chapter. Proc. 17:206-209. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218
- 33690 ABBOTT, M. L. The Upper Freeport, No. 7, coal parting compression flora of the Appalachian Basin. (Abs.) Amer. J. Bot. 37:672. Oct. 1950. 450 Am36
- 33691 AMICO, A. Historical notes on botanical activity in Apulia. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:266-279. 1949. 450 N92
- 33692 AMSTERDAM. UNIVERSITEIT. Catalogue des graines récoltées dans le Jardin Botanique de l'Université d'Amsterdam. Amsterdam, 1950. 24 p. 61.5 Am8
- 33693 ANDERSON, C. Organ Pipe Cactus National Monument. Natl. Parks Mag. 25(104):3-7. Jan./Mar. 1951. 98.69 N21
- 33694 ANGELY, J. Dictionary of technical botanical terms. (In Portuguese.) Rev. da Flora Med. 17:15-48. (Cont.) Jan. 1950. 71.8 R32
- 33695 AVETISIAN, E. M. Simplified method of treating pollen with acetol. (In Russian.) Bot. Zhur. 35:385-386. July/Aug. 1950. 451 R923
- 33696 BANKS, H. P. Some Upper Devonian plants. (Abs.) Amer. J. Bot. 37:672. Oct. 1950. 450 Am36
- 33697 BARRINGTON, M. Of sundrie trees. Trees & New Earth 14:137-140. Winter 1950/51. 99.8 T714 On herbals.
- 33698 BARTOO, H. V. Comparative study of early Carboniferous (Mississippian) plant fossils. (Abs.) Amer. J. Bot. 37:672. Oct. 1950. 450 Am36
- 33699 BERETNING om faellesforsøg i landbo- og husmandsforeningerne [Report on joint experiments of the farmers and cotters associations]. 1950. Odense, 1951. 107 p. 11 B45 Plant research.
- 33700 BEYER, A. F. Additions to the fossil flora of Specimen Ridge, Yellowstone National Park, Wyoming. (Abs.) Amer. J. Bot. 37:672. Oct. 1950. 450 Am36
- 33701 BOBROV, E. G. Botanical results of investigations of Russian scientists in Central Asia. (In Russian.) Bot. Zhur. 35:432-437. July/Aug. 1950. 451 R923
- 33702 BREMEN-HORN. BOTANISCHER GARTEN. Samenverzeichnis, 1950. n.p., 1950. 11 p. 61.5 B75
- 33703 BRUSSELS. JARDIN BOTANIQUE. Delectus seminum. Brussels. Jard. Bot. de l'Etat. B. 20(sup.1), 14 p. Dec. 1950. 451 B83B
- 33704 CANRIGHT, J. E. Are the Magnoliaceae the most ancient dicots? (Abs.) Amer. J. Bot. 37:672. Oct. 1950. 450 Am36
- 33705 COIMBRA. UNIVERSIDADE. JARDIM BOTANICO. Index seminum 1951. Coimbra, 1951. 27 p. 61.5 C66
- 33706 CONOLLY, A. P., GODWIN, H., and MEGAW, E. M. Studies in the post-glacial history of British vegetation. XI. Late glacial deposits in Cornwall. Roy. Soc. London. Philos. Trans. Ser. B, Biol. Sci. 234:397-469. Ref. Aug. 23, 1950. 501 L84Pb With an appendix by R. Ross.
- 33707 CROCKET, R. M. Botany briefs. 4-5. Prof. Gard. 2:193;3:12-13. Aug. 1950, Jan. 1951. 80 P945
- 33708 CRUZ, J. P. G. DA. Pharmacogeography. (In Portuguese.) Rev. da Flora Med. 17:1-14. (Cont.) Jan. 1950. 71.8 R32
- 33709 DAVIS, D. E. Objectives of a general botany course in an agricultural college. (Abs.) Amer. J. Bot. 37:659. Oct. 1950. 450 Am36
- 33710 DAVIS, D. W., and ALSTON, R. E. The use of the garden balsam [Impatiens balsamina] in laboratory work of elementary biology or genetics. (Abs.) Va. J. Sci. (n.s.)1:352-353. Sept. 1950. 470 V81
- 33711 DEEVEY, E. S., JR. Late-glacial and post-glacial pollen diagrams from Maine. Amer. J. Sci. 249:177-207. Ref. Mar. 1951. 470 Am34
- 33712 DESCH, H. E. Trees and the law. Wood [London] 16(2):66-68. Feb. 1951. 99.82 W855
- 33713 ERKAMO, V. Neue beiträge zur kenntnis der finnischen pflanzennamen. (In Finnish.) Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1949)4:127-130. Ref. 1950. 410.9 Su7T German summary.
- 33714 FERM, J. C. Megaspores of the middle (?) Kittanning coal in Beaver County, Pennsylvania. (Abs.) Amer. J. Bot. 37:672-673. Oct. 1950. 450 Am36
- 33715 FISHER, E. E. Hoyt Arboretum. Natl. Shade Tree Conf. West. Chapter. Proc. 17:200-205. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218
- 33716 GIBSON, F. Boyce Thompson Southwestern Arboretum. Natl. Shade Tree Conf. West. Chapter. Proc. 17:217-219. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218
- 33717 GODWIN, H. Pollen analysis (palynology). Endeavour 10(37):5-16. Ref. Jan. 1951. 472 En2
- 33718 GOTTLEB, D., and DIAMOND, L. A synthetic medium for chloromycetin. Torrey Bot. Club. B. 78:56-60. Jan./Feb. 1951. 451 T63B Streptomyces venezuelae.
- 33719 GRAY, H. A. Mt. Airy Arboretum—Mt. Airy Forest, Cincinnati, Ohio. Arboretum B. 13(4):6,31. Winter 1950. 451 Ar1
- 33720 HAZEN, E. L., and BROWN, R. Fungicidin, an antibiotic produced by a soil actinomycete [Streptomyces sp.]. Soc. Expt. Biol. & Med. Proc. 76:93-97. Jan. 1951. 442.9 S01
- 33721 HIGGINS, E. The botanic gardens and arborea of the San Francisco Bay area. Natl. Shade Tree Conf. West. Chapter. Proc. 17:194-200. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218
- 33722 HITTONEN, I. Über die gemeinsamen züge der floren von Nordamerika und Fennoskandien, nebst einem blick auf die Salix-flora des östlichen Nordamerikas. Soc. pro Fauna et Flora Fenn. Memo. (1948-49)25:72-86. Ref. 1950. 511 H365Me
- 33723 HOSKINS, J. H., and CROSS, A. T. A study of some Lower Mississippian species of Callixylon. (Abs.) Amer. J. Bot. 37:673. Oct. 1950. 450 Am36
- 33724 HOWELL, J. T. Plant types in the herbarium of the California Academy of Science. VI. Wasmann J. Biol. 8:371-378. Fall 1950. 442.8 W28
- 33725 HYDE, H. A. Studies in atmospheric pollen. IV. Pollen deposition in Great Britain, 1943. I-II. New Phytol. 49:398-420. Nov. 1950. 450 N42
- 33726 ISHIDA, N. Studies on the antibiotic substances from Actinomyces, IX. A new basic antibiotic produced by a strain of Streptomyces roseochromogenus, No. 36. (In Japanese.) J. Antibiotics 3:845-853. Dec. 1950. 396.8 J824 English summary.
- 33727 JOHNSON, M. M. Aerial field trips: preparation, follow-up and value. (Abs.) Amer. J. Bot. 37:659. Oct. 1950. 450 Am36
- 33728 KAISILA, J. Phänologische beobachtungen in Kilpisjärvi (Enl) in den jahren 1948 und 1949. (In Finnish.) Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1949)4:141-143. 1950. 410.9 Su7T German summary. Plants and insects.
- 33729 KALELA, A. Über die vegetation Irlands und ihre regionale verteilung. (In Finnish.) Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1949)4:74-96. Ref. 1950. 410.9 Su7T German summary.
- 33730 KIKUCHI, M. Studies on the antibiotic substances from Actinomyces, X. A new basic antibiotic produced by a strain of Streptomyces roseochromogenus No. 24. (In Japanese.) J. Antibiotics 3:839-844. Dec. 1950. 396.8 J824 English summary.
- 33731 KOSANKE, R. M. Notes on the Psaronii of the Eastern Interior Basin. (Abs.) Amer. J. Bot. 37:673. Oct. 1950. 450 Am36
- 33732 KOTILAINEN, M. J. Einige botanische beobachtungen im nordwestlichen Jämtland im spätsommer des jahres 1949. (In Finnish.) Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1949)4:138-141. Ref. 1950. 410.9 Su7T German summary.
- 33733 LAUWAET, P. Les sols congolais; aspect général de leur végétation. B. Hort. (n.s.)5:324-328. Nov. 1, 1950. 80 B873
- 33734 LITTLE, J. E., and JOHNSTONE, D. B. Plumericin: an antimicrobial agent from Plumeria multiflora. Arch. Biochem. 30:445-452. Ref. Feb. 1951. 381 Ar2
- 33735 LUNDBLAD, A. B. Studies in the Rhaeto-Liassic floras of Sweden. I. Svenska Vetenskakad. Handl. (ser.4)1(8), 82 p. Ref. 1950. 502 St6H



- 33736 MCCOWEN, M. C., CALLENDER, M. E., and LAWLIS, J. F., JR. Fumagillin (H-3), a new antibiotic with amebicidal properties. *Science* 113:202-203. Feb. 23, 1951. 470 Sci2  
From *Aspergillus* sp.
- 33737 MERICLE, L. W. Micro-radioautographic technique for translocation of accumulation studies. (Abs.) *Amer. J. Bot.* 37:665. Oct. 1950. 450 Am36
- 33738 MESA-BERNAL, D. Los nombres comunes en las plantas y sus problemas en la America Latina. *Agr. Trop.* 7:33-39. Jan. 1951. 26 Ag8
- 33739 MINIO, M. More condensed views and bioclimatic illustrations in the contributions of Smirnow. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.) 56:303-307. 1949. 450 N92
- 33740 MINSHALL, W. H. An infrared micro-analyser for the measurement of photosynthesis, respiration, and transpiration of plants. (Abs.) *Canad. Phytopath. Soc. Proc.* (1950) 17:12. Jan. 27, 1951. 464.9 C162
- 33741 MULLIGAN, B. O. University of Washington Arboretum, summer 1949 to spring 1950. *Natl. Shade Tree Conf. West. Chapter. Proc.* 17:189-194. In *Natl. Shade Tree Conf. Proc.* 26. 1950. 99.9 N218
- 33742 MUNZ, P. A. Requisites for the establishment and maintenance of an arboretum. *Natl. Shade Tree Conf. West. Chapter. Proc.* 17:183-187. In *Natl. Shade Tree Conf. Proc.* 26. 1950. 99.9 N218
- 33743 NEELY, F. E. A new seed from Illinois. (Abs.) *Amer. J. Bot.* 37:673. Oct. 1950. 450 Am36  
Paleobotany.
- 33744 NIELSEN, P. C. Report from the VII. International Botanical Congress in Stockholm 1950. (In Danish.) *Dansk Skovfor. Tidsskr.* 35:626-631. Dec. 1950. 99.8 D23
- 33745 NOSE, R. Das arboretum in Dortmund-Brünninghausen. *Deut. Baumsch.* 3:22-24. Jan. 1, 1951. 80 D486
- 33746 OUSDAL, A. P. Microscopic study of fractures in unidentified fossil algae discovered in silicified slate. (Abs.) *Amer. J. Bot.* 37:674. Oct. 1950. 450 Am36
- 33747 PERTTULA, U. Kasvillisuudesta ylisellä Syvärillä sekä siihen etelässä rajoittuvalla Juksovon seudulla. Über die vegetation am oberen lauf des flusses Swir nebst der im süden anschliessenden gegend von Juksovo. *Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon Kasvitiet. Julkaisu.* 23(6), 204 p. 1950. 451 Su7  
German summary.
- 33748 POPOV, M. G. Vegetation of Moneron Island (Sea of Japan). (In Russian.) *Bot. Zhur.* 35:355-366. July/Aug. 1950. 451 R923
- 33749 QUADLAND, H. P. Plant America. *Natl. Shade Tree Conf. Proc.* 26:59-65. 1950. 99.9 N218
- 33750 RAVENNA, G. Some species recently acclimated in Liguria. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.) 56:288-289. 1949. 450 N92
- 33751 REED, F. D. A new species of a Cordaite leaf. (Abs.) *Amer. J. Bot.* 37:673. Oct. 1950. 450 Am36
- 33752 RICKETT, H. W. Some changes in the International Rules of Botanical Nomenclature made at Stockholm in 1950. *Torrey Bot. Club. B.* 78:1-10. Jan./Feb. 1951. 451 T63B
- 33753 RODENBURG, J. W. M. Botanical, morphological and physiological research. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13(10, sup.):352-364. Ref. Nov. 1950. 86 N384
- 33754 SCHEMEL, M. P. Small-spore correlation methods. (Abs.) *Amer. J. Bot.* 37:674. Oct. 1950. 450 Am36
- 33755 SCHLITTLER, J. Wie alt werden unsere bäume? *Leben u. Umwelt* 7:73-75. Jan. 1951. 410 L49
- 33756 SCHOFF, J. M. The fate of American proposals on paleobotanical nomenclature: the rules in force governing names of fossil plants. (Abs.) *Amer. J. Bot.* 37:674. Oct. 1950. 450 Am36
- 33757 SMALL, J. A. A state park as an adjunct in teaching general botany. (Abs.) *Amer. J. Bot.* 37:659-660. Oct. 1950. 450 Am36
- 33758 SOCHAVA, V. Convention of delegates of the All-Union Botanical Society, January 29-30, 1950. (In Russian.) *Bot. Zhur.* 35:438-442. July/Aug. 1950. 451 R923
- 33759 SPALDING, G. H. The Los Angeles State and County Arboretum. *Natl. Shade Tree Conf. West. Chapter. Proc.* 17:209-213. In *Natl. Shade Tree Conf. Proc.* 26. 1950. 99.9 N218
- 33760 STEWART, W. N. A new species of *Medullosa*. (Abs.) *Amer. J. Bot.* 37:674. Oct. 1950. 450 Am36
- 33761 STUCCHI, C. On the presence and distribution in the Milan region of some introduced plants. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.) 56:294-298. 1949. 450 N92
- 33762 STUDER, O. Vom sinn des Christbaumes. *Geflügelhof* 13:827-828. Dec. 15, 1950. 47.8 G276
- 33763 TAYLOR, T. M. The University of British Columbia Botanic Garden. *Natl. Shade Tree Conf. West. Chapter. Proc.* 17:187-188. In *Natl. Shade Tree Conf. Proc.* 26. 1950. 99.9 N218
- 33764 TIITINEN, A. O. *Cladium mariscus* RBr. in Joroinen (Sb). (In Finnish.) *Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat* (1949) 4: 109-112. Ref. 1950. 410.9 Su7T  
German summary.
- 33765 TOWNSEND, R. B. The Huntington Botanical Gardens. *Natl. Shade Tree Conf. West. Chapter. Proc.* 17:213-217. In *Natl. Shade Tree Conf. Proc.* 26. 1950. 99.9 N218
- 33766 UMEZAWA, H., TAKEUCHI, T., and YAMAGIWA, S. Studies on streptothricin BI produced by *S. fradiae*. (In Japanese.) *J. Antibiotics* 3:833-838. Dec. 1950. 396.8 J824  
English summary.
- 33767 WARSAW. UNIERSYTET. OGROD BOTANICZNY. Index seminum et sporarum. n.p., 1950. 14 p. 61.5 W262
- 33768 WESTHOFF, V., and BEEFTINK, W. G. The vegetation of dunes, slick spots and land outside the dykes in the Kaloot and the Noord-Sloe. II. The Noordsloe. (In Dutch.) *Levende Nat.* 53:225-233. Ref. Dec. 1950. 410 L57
- 33769 WEYLAND, H. Wege und ziele der paläobotanik. *Naturwissenschaften* 37:553-556. Dec. 15, 1950. 474 N213
- 33770 WILKINS, W. H., and PARTRIDGE, B. M. Investigation into the production of bacteriostatic substances by fungi. Preliminary examination of the tenth 100 species, all Basidiomycetes, and review of first 500 Basidiomycetes. *Brit. J. Expt. Path.* 31:754-758. Dec. 1950. 448.8 B772
- 33771 YOUNG, R. E., and BIALE, J. B. The recording Beckman oxygen analyzer for respiration studies. (Abs.) *Amer. J. Bot.* 37:683. Oct. 1950. 450 Am36
- 33772 ZÜRICH. UNIVERSITÄT. BOTANISCHER GARTEN. Verzeichnis im tausch abgebarer sämereien und früchte, Dezember, 1949. Zürich, 1949. 13 p. 61.5 Z8
- 33773 ZYGMUNT, W. A. An antibiotic substance produced by an unidentified member of the genus *Streptomyces*. *Urbana*, 1950. 6 p. 387 Z9  
Abstract of thesis - University of Illinois.

## SYSTEMATIC AND GEOGRAPHIC BOTANY

## General

- 33774 BLUM, J. L. An international collection of phylogeographic color transparencies. (Abs.) *Amer. J. Bot.* 37:683-684. Oct. 1950. 450 Am36
- 33775 FAGERSTRÖM, L. Contribution to the knowledge of the flora and vegetation in the Strömfors and Pyttis archipelagos. I. (In Swedish.) *Soc. pro Fauna et Flora Fenn. Memo.* (1948-49) 25:36-43. Ref. 1950. 511 H365Me
- 33776 FEINBRUN, N. Plants new for Palestine. III. *Palestine J. Bot. Jerusalem Ser.* 4:237-238. Mar. 1949. 450 P17
- 33777 GLASSMAN, S. F. The flora of Ponape. *Washington*, 1950. 32 p. (Sci. Invest. in Micronesia. Rpt. No. 2) 460.23 G46
- 33778 LI, H. L. Families and genera of Formosan plants. II. Key to dicotyledonous families. *Taiwan Mus. Q. J.* 3:124-136. Sept. 1950. 513 T133
- 33779 NEGRI, G. Project for a phylogeographic study in Apulia. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.) 56:279-284. 1949. 450 N92
- 33780 PAREDES C., A. Especies industriales de la flora ecuatorialiana ordenadas según el sistema filogenético de Richard Wettstein. *B. de Inform. Cient. Nac.* 3:246-255. Sept./Nov. 1950. 475 B633
- 33781 POLUNIN, O. Notes and additions to the flora of the islands of S. W. Cork. *Watsonia* 1:359-363. Dec. 1950. 450 W33
- 33782 PROCTOR, G. R. Results of the Catherwood-Chaplin West Indies Expedition, 1948. I. Plants of Cayo Largo (Cuba), San Andres and Providencia. *Acad. Nat. Sci. Phila. Proc.* 102:27-42. 1950. 500 P53



- 33783 RAVEN, J. E. Notes on the flora of the Scilly Isles and the Lizard Head. *Watsonia* 1:356-358. Dec. 1950. 450 W33
- 33784 ROBERTY, G. Notes de botanique ouest-africaine. *Notes Africaines* 48:114-118. Oct. 1950. 475 N84
- 33785 SERRES, J. Contribution à l'étude botanique de la région d'Aln-Moularès. *Soc. des Sci. Nat. de Tunisie. B.* 3:4-16. 1950. 515 S013  
Includes names in Arabic.
- 33786 SHISHKIN, B. K., ed. *Flora SSSR [Flora USSR]*, v. 16. Moskva, Akademii Nauk SSSR, 1950. 648 p. (Botanicheski Institut im. V. L. Komarova Akademii Nauk SSSR) 459.2 L54
- 33787 STEYERMARK, J. A. Plant survey of Missouri. *Mo. Bot. Gard. B.* 39:31-38. Feb. 1951. 451 M69B
- 33788 TOLMACHEV, A. I. On the high-mountain flora of Lopatin Mountain (Sakhalin Island). (In Russian.) *Bot. Zhur.* 35:343-354. Ref. July/Aug. 1950. 451 R923
- 33789 WHITE, C. T. Report on the botany of the Mt. Alford excursion. *Queensland Nat.* 14:35-36. Sept. 1950. 410 Q3
- 33790 ZENARI, S. Critical plants of the Dolomites. II. (In Italian.) *Nuovo Gior. Bot. Ital. (n.s.)* 56:198-222. 1949. 450 N92  
English summary.
- 33791 ZOHARY, M. Plants new for the flora of Iraq. *Palestine J. Bot. Jerusalem Ser.* 4:234-236. Mar. 1949. 450 P17
- Spermatophytes
- 33792 BABCOCK, E. B. *Youngia americana*, a new species of phyletic significance. *Madroño* 11:1-6. Jan. 1951. 450 M26
- 33793 BACKEBERG, C. Notes on Bolivian Tephrocacti. *Desert Plant Life* 22:113-116. Dec. 1950. 450 D45
- 33794 BARNEBY, R. C. *Pugillus Astragalorum*. XIII. The varieties of *A. tegetarius* Wats. (Kentrophyta Nutt.). *L. West. Bot.* 6:89-102. Jan. 1951. 450 L47
- 33795 BARRETT, M. F. *Ficus* in Florida. III. Asiatic species. *Amer. Midland Nat.* 45:118-183. Ref. Jan. 1951. 410 M58
- 33796 BEIJERINCK, W., and PELKWIJK, A. J. TER. The most important brambles in the Drenthe area. III. (In Dutch.) *Levende Nat.* 53:211-216. Nov. 1950. 410 L57
- 33797 BURNETT, J. H. The correct name for *Veronica aquatica* Bernhardt. *Watsonia* 1:349-353. Ref. Dec. 1950. 450 W33
- 33798 BUWALDA, P. Notes on New Guinea Umbelliferae. *Arnold Arboretum. J.* 32:59-66. Jan. 1951. 451 Ar6J
- 33799 CHARRIER, G. New locality for *Spiranthes aestivalis* Rich. in the Cottian Alps. (In Italian.) *Nuovo Gior. Bot. Ital. (n.s.)* 56:240-241. 1949. 450 N92
- 33800 CHEVALIER, A. Découvertes récentes de plantes intéressantes dans le Haut-Oubangui. *Acad. des Sci. Compt. Rend.* 232:129-130. Jan. 8, 1951. 505 P21
- 33801 CHEVALIER, A. Sur la prodigieuse rapidité de croissance du baobab [*Adansonia digitata*] en Afrique centrale. *Acad. des Sci. Compt. Rend.* 232:370-371. Jan. 29, 1951. 505 P21
- 33802 CIFERRI, R., and GIACOMINI, V. Nomenclator florae italicae seu plantae vasculares in Italia sponte nascentes, advenae, aut saepius cultae, v. 1. Ticini, Busca, 1950. 196 p. 459.8 C48
- 33803 CORILLION, R. Contribution à l'étude de la répartition d'*Ulex galii* Planch. sur le littoral du nord de la Bretagne. *Soc. Sci. de Bretagne. B. (Sci. Math. Phys. et Nat.)* 24:97-99. 1949, pub. 1950. 505 R292
- 33804 CORILLION, R. Phanérogames nouvelles ou intéressantes pour la Bretagne. III. *Soc. Sci. de Bretagne. B. (Sci. Math. Phys. et Nat.)* 24:78-80. 1949, pub. 1950. 505 R292
- 33805 CORILLION, R. Quelques phanérogames intéressantes pour la Bretagne. *Soc. Sci. de Bretagne. B. (Sci. Math. Phys. et Nat.)* 24:75-77. 1949, pub. 1950. 505 R292
- 33806 CORILLION, R. *Quercus cerris* L. et sa végétation à Notre-Dame-du-Guideo (Côtes du-Nord). *Soc. Sci. de Bretagne. B. (Sci. Math. Phys. et Nat.)* 24:51-54. 1949, pub. 1950. 505 R292
- 33807 CORILLION, R. Sur l'existence et la répartition des *Ulex* hybrides des landes bretonnes. *Acad. des Sci. Compt. Rend.* 232:344-346. Jan. 22, 1951. 505 P21
- 33808 COVAS, G. Un híbrido interespecífico natural en "*Amaranthus*." *Rev. Argentina de Agron.* 17:257-260. Dec. 1950. 9 R327
- 33809 COX, H., and ROBERTS, E. Species nomenclature of the African violet continued, with special attention to the species *Saintpaulia goetzeana*. *African Violet Mag.* 4(3):16-17. Mar. 1951. 80 Af8
- 33810 CRUZ, R. D'. Vernacular names of grasses and their botanical equivalents. *Poona Agr. Col. Mag.* 41:215-231. Nov. 1950. 22 P79
- 33811 DAVIS, P. H. The Taurus revisited, 1949. *Roy. Hort. Soc. J.* 76:54-63. Feb. 1951. 84 L84J  
Flora of the Lycian Taurus of Turkey.
- 33812 DIMITRI, M. J., and MILANO, V. A. Fagaceae. Buenos Aires, 1950. 39 p. (Buenos Aires. Instituto de Botánica. Las plantas cultivadas en la República Argentina, v. 8, No. 156) 451 B863P
- 33813 DONALD, J. D. An introduction to some new genera and subgenera proposed by C. Backeberg. *Natl. Cactus & Succulent J.* 5:67-68. (To be cont.) Dec. 1950. 450 N21
- 33814 ERKAMO, V. *Centunculus minimus* L. im Schärenhof von Uusikaupunki (V). (In Finnish.) *Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat* (1950) 5:46-49. 410.9 Su7T  
German summary.
- 33815 ERKAMO, V. *Najas tenuissima* und andere interessante pflanzenarten aus Espoo (U; Sudfinland). (In Finnish.) *Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat* (1949) 4:96-99. Ref. 1950. 410.9 Su7T  
German summary.
- 33816 ERKAMO, V. *Über Ranunculus cymbalaria* Pursh in Finnland. (In Finnish.) *Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat* (1949) 4:121-127. Ref. 1950. 410.9 Su7T  
German summary.
- 33817 FETHERSTON, G. H. Notes on blue-flowered water-lilies [Nymphaeae]. *Victorian Nat.* 67:161-165. Ref. Dec. 1950. 410 V66
- 33818 GAISER, L. O. Evidence for the hybrid nature of *X Liatris creditonensis*. *Madroño* 11:10-22. Ref. Jan. 1951. 450 M26
- 33819 GARBER, E. D., and SNYDER, L. A. Cytotaxonomic studies in the genus *Sorghum*. II. Two new species from Australia. *Madroño* 11:6-10. Jan. 1951. 450 M26
- 33820 GRAY, N. E., and BUCHHOLZ, J. T. A taxonomic revision of *Podocarpus*. V-VI. *Arnold Arboretum. J.* 32:82-97. Jan. 1951. 451 Ar6J
- 33821 HAAPALA, J. *Stellaria humifusa* Rottb. auf der Insel Hailuoto (PP) im nördlichen teil des Bottnischen meerbassens. (In Finnish.) *Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat* (1950) 5:23-25. Ref. 410.9 Su7T  
German summary.
- 33822 HAWKES, A. D. The genus *Miltonia*. *Orchid Digest* 15:5-9. Jan./Feb. 1951. 80 Or172
- 33823 HAWKES, A. D. The minor genera of cultivated orchids. 14-20. *Orchid Digest* 15:20-22. Jan./Feb. 1951. 80 Or172
- 33824 HERRE, H. *Crassula grisea* Schönl. *Desert Plant Life* 22:118. Dec. 1950. 450 D45
- 33825 HESLOP HARRISON, J. *Orchis cruenta* Müll. in the British Islands. *Watsonia* 1:366-375. Ref. Dec. 1950. 450 W33
- 33826 HODGE, W. H. Notes on Peruvian Cinchonae. *L. Harvard U. Bot. Mus. L.* 14:137-155. Nov. 6, 1950. 451 H262
- 33827 HOGUE, C. E. Botanists protest axis deer on Hawaii. *Biologist* 33:19-21. Sept. 1950. 442.8 B5263  
Fear of destruction of native seed plants.
- 33828 IBARRA, F. E. *Cycloloma platyphyllum*, adventicia en la República Argentina. *Rev. Argentina de Agron.* 17:262-263. Dec. 1950. 9 R327
- 33829 JALAS, J. *Tellima grandiflora* (Pursh) Dougl. found naturalized in Finland. *Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat* (1949) 4:137-138. Ref. 1950. 410.9 Su7T
- 33830 JOHNSON, M. A. Relationship in the Magnoliaceae as indicated by some biochemical properties of seed proteins. (Abs.) *Amer. J. Bot.* 37:663. Oct. 1950. 450 Am36
- 33831 JOHNSTON, I. M. Studies in the Boraginaceae. XX. Representatives of three subfamilies in eastern Asia. *Arnold Arboretum. J.* 32:1-26. (To be cont.) Jan. 1951. 451 Ar6J  
Includes a new species in *Cordia*.



- 33832 JONES, Q. A cytotaxonomic study of the genus *Disporum* in North America. Gray Herb. Harvard U. Contrib. 173, 40 p. Jan. 31, 1951. 451 G792
- 33833 KAKI, E. *Gentiana aurea* L. in der gegend des sees Kilpisjärvi (EnL). Der einzige fundort der art im heutigen Finnland. Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1950) 5:32-34. Ref. 410.9 Su7T
- 33834 KALELA, A. *Carex media* RBr., der älteste name einer zirkumpolar-borealen seggenart. Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1949) 4:114-115. Ref. 1950. 410.9 Su7T
- 33835 KOTILAINEN, M. J. *Anemone nemorosa* L. in Pihtipudas (Tb). (In Finnish.) Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1949) 4:135-137. Ref. 1950. 410.9 Su7T  
German summary.
- 33836 KOTILAINEN, M. J. *Salix pyrolifolia* Led. Ter-  
volassa (Ob). (In Finnish.) Soc. pro Fauna et Flora Fenn. Memo. (1948-49) 25:18-22. 1950. 511 H365Me
- 33837 KOTILAINEN, M. J., and SALMI, V. Two serpentinicolous forms of *Cerastium vulgatum* L. in Finland. Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1950) 5:64-68. 410.9 Su7T
- 33838 LEHTONEN, J. *Schoenus ferrugineus* L. found in Northern Karelia. (In Finnish.) Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1949) 4:99-101. 1950. 410.9 Su7T  
English summary.
- 33839 LEHTONEN, K. *Stratiotes aloides* L. in Merikarvia (St) gefunden. (In Finnish.) Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1949) 4:132-134. Ref. 1950. 410.9 Su7T  
German summary.
- 33840 LEMBERG, B. *Convolvulus sepium* L. found in Eastern Nyland's archipelago. (In Swedish.) Soc. pro Fauna et Flora Fenn. Memo. (1948-49) 25:4-6. 1950. 511 H365Me
- 33841 LÉONARD, J. Observations sur les genres africains *Oxystigma* et *Pterygopodium* (Caesalpiniaceae). Inst. Roy. Colon. Belge. B. des Séances 21:744-753. 1950. 504 B836
- 33842 LUTHER, H. Die funde von *Zostera marina* L. in der nördlichen Ostsee. Soc. pro Fauna et Flora Fenn. Memo. (1948-49) 25:25-36. Ref. 1950. 511 H365Me
- 33843 MACLEOD, R. A. The *Brachypetalums*. Orchid Digest 15:23-24. Jan./Feb. 1951. 80 Or172  
Cypripedium spp.
- 33844 MARZOCCA, A. Ebenaceae. Buenos Aires, 1950. 22 p. (Buenos Aires. Instituto de Botánica. Las plantas cultivadas en la República Argentina, v. 8, No. 158) 451 B863P
- 33845 MERRILL, E. D. On certain nomenclatural errors in the Euphorbiaceae. Arnold Arboretum. J. 32: 79-81. Jan. 1951. 451 Ar6J
- 33846 MERRILL, E. D. *Tatea* F. Mueller (Pygmaeopremna Merrill) and *Premna* Linnaeus. Arnold Arboretum. J. 32:73-78. Jan. 1951. 451 Ar6J
- 33847 MONTELL, J. *Carex rotundata* Wg. × *saxatilis* L., new to Finland's flora. (In Swedish.) Soc. pro Fauna et Flora Fenn. Memo. (1948-49) 25:105. 1950. 511 H365Me
- 33848 MONTELL, J. Even the original form of *Eriogon* (Trimorpha) borealis (Vierh.) is now found in Finland. (In Swedish.) Soc. pro Fauna et Flora Fenn. Memo. (1948-49) 25:103-104. 1950. 511 H365Me
- 33849 MONTELL, J. The hybrids *Carex rhynchocephala* C.A.M. × *rostrata* Stok. and *C. rhynchocephala* C.A.M. × *vesicaria* L. from the Björneborg area. (In Swedish.) Soc. pro Fauna et Flora Fenn. Memo. (1948-49) 25:106-107. 1950. 511 H365Me
- 33850 MONTELL, J. Notes on the hybrid *Carex saxatilis* L. × *vesicaria* L. and its occurrence in the Kilpisjauke-area, Le. (In Swedish.) Soc. pro Fauna et Flora Fenn. Memo. (1948-49) 25:104-105. 1950. 511 H365Me
- 33851 MORAN, R. Notes on *Hasseanthus*. II. Desert Plant Life 22:99-105. Nov. 1950. 450 D45
- 33852 NAGEL, O. Notas relativas a la distribución de orquídeas mexicanas. Soc. Bot. de Méx. B. 11:17-22. Dec. 1950. 451 So125
- 33853 NEHOJ, J. Apparition d'Elymus arenarius L. (Graminées) en Bretagne. Soc. Sci. de Bretagne. B. (Sci. Math. Phys. et Nat.) 24:101-104. 1949, pub. 1950. 505 R292
- 33854 O'DONELL, C. A. A new Brazilian Convolvulaceae. (In Portuguese.) Dusenía 1:374-376. Nov. 1950. 410 D94  
*Ipomoea cardenasiana*.
- 33855 OMANG, S. O. F. Descriptiones specierum novarum e stirpe Hieracii alpini. Nytt Mag. f. Natvidensk. 87:95-195. 1949. 410 N99
- 33856 PARAY, L. El género Lamourouxia en México. Soc. Bot. de Méx. B. 11:5-16. Dec. 1950. 451 So125
- 33857 PHILIPPIS, A. DE. Notes on the recent discovery of the genus *Metasequoia* (Gymnospermae). (In Italian.) Nuovo Gior. Bot. Ital. (n.s.) 56:231-232. 1949. 450 N92
- 33858 RAIZADA, M. B. New or noteworthy plants from the Upper Gangetic Plain. Indian Forester 76:489-497. Nov. 1950. 99.8 In2
- 33859 REED, C. F. Distribution of the genus *Trillium* in Kentucky. (Abs.) Amer. J. Bot. 37:666. Oct. 1950. 450 Am36
- 33860 REEDER, J. R., and CHEO, S. Y. Notes on *Xanthoxylum* & *Fagara* in China. Arnold Arboretum. J. 32:67-72. Jan. 1951. 451 Ar6J
- 33861 RIZZINI, C. T. De plantis brasiliensis nonnullis. Dusenía 1:289-296. Sept. 1950. 410 D94  
Includes new species in *Chaunochiton*, *Orthotactus*, *Acelica*, and *Manettia*.
- 33862 SEGARS, C. B., CRAWFORD, L. C., and HARRILL, A. M. The occurrence and distribution of hemlock [*Tsuga canadensis*] in Alabama. Ecology 32:149-151. Ref. Jan. 1951. 410 Ec7
- 33863 SHAN, R. H., and CONSTANCE, L. The genus *Santcula* (Umbelliferae) in the Old World and the New. (Abs.) Amer. J. Bot. 37:684. Oct. 1950. 450 Am36
- 33864 SHISHKINA, B. K., ed. Flora i sistematika vysshikh rastenii [Flora and systematics of higher plants]. Moskva, Akademiya Nauk SSSR, 1950. 346 p. (Trudy Botanicheskogo Instituta im. V. L. Komarova. Trudy. Ser. 1. Flora i Sistematika Vysshikh Rastenii. v. 9) 451 Sa21
- 33865 SHUMAKOV, E. M. New habitat of *Trichanthes karataviensis* Rgl. et Schmalh. (In Russian.) Bot. Zhur. 35:387. July/Aug. 1950. 451 R923
- 33866 SIPKES, C. The soldier orchid [*Orchis militaris*] on the dunes at Voorne. (In Dutch.) Levende Nat. 53:201-207. Nov. 1950. 410 L57
- 33867 SMITH, A. C. Studies of Pacific Island plants. VIII. The Fijian species of Lauraceae. Arnold Arboretum. J. 32:27-58. Jan. 1951. 451 Ar6J  
Includes new species in: *Cinnamomum*, *Cryptocarya*, *Endiandra*, and *Litsea*.
- 33868 TACKHOLM, V., and DRAR, M. Flora of Egypt, v. II. Angiospermae, part Monocotyledones: Cyperaceae-Juncaceae. Fouad I U. Facul. Sci. B. 28:547 p. 1950. 515 Eg92
- 33869 TAMAMSHIAN, S. G. In regard to the systematics of the genus *Symphyloloma* C.A.M. (Umbelliferae). (In Russian.) Bot. Zhur. 35:335-342. Ref. July/Aug. 1950. 451 R923
- 33870 TEIVAINEN, L. Eine schmalblättrige form von *Filipendula ulmaria* (L.) Maxim. aus Finnland. (In Finnish.) Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1949) 4:113. Ref. 1950. 410.9 Su7T  
German summary.
- 33871 TJØNNELAND, O. Arctic *Polemonium*. (In Norwegian.) Norsk Hagetid. 67:1-2. Jan. 1, 1951. 80 N81
- 33872 TRELEASE, W., and YUNCKER, T. G. The Piperaceae of northern South America. Urbana, U. Illinois Press, 1950. 2 v. 452.3 T71Pi
- 33873 TUTIN, T. G. *Milium scabrum* Merlet. Watsonia 1:345-348. Dec. 1950. 450 W33
- 33874 WAKEFIELD, N. A. Orchids of East Gippsland. Victorian Nat. 67:166-168. Dec. 1950. 410 V66
- 33875 WARMKE, H. E. Cytotaxonomic investigations of some varieties of *Panicum maximum* and of *P. purpurascens* in Puerto Rico. Agron. J. 43:143-149. Mar. 1951. 4 Am34P
- 33876 WEBSTER, G. L. The Polynesian species of *Myoporum*. Pacific Sci. 5:52-77. Ref. Jan. 1951. 475 P11
- 33877 WIDLUND, U. *Puccinellia phryganodes* (Trin.) Scribn. & Merr., new to Ob as well as other plant data from Karlö. (In Swedish.) Soc. pro Fauna et Flora Fenn. Memo. (1948-49) 25:96-100. 1950. 511 H365Me
- 33878 ZOHARY, M. On *Pistacia saportae* and its occurrence in Palestine. Nuovo Gior. Bot. Ital. (n.s.) 56: 233-235. 1949. 450 N92



Pteridophytes

- 33879 BOIVIN, B. The dates of publication of the *Icones Filicum* by W. J. Hooker and R. K. Greville. *Canad. Field-Nat.* 64:212-214. Nov./Dec.1950. 410.9 Ot8
- 33880 BRADE, A. C. *Blechnum* (Lomaria) *longicauda* C. Chr. in Brasilien. *Dusenia* 1:283-288. Ref. Sept. 1950. 410 D94
- 33881 REED, C. F. Morphology of fern spores and its relation to taxonomy. (Abs.) *Amer. J. Bot.* 37:673-674. Oct.1950. 450 Am36
- 33882 WAGNER, W. H., JR. The genus *Diellia* and the value of characters in determining fern affinities. (Abs.) *Amer. J. Bot.* 37:684. Oct.1950. 450 Am36
- 33883 WALTHER, E. Exotic flora of California. III. The tree ferns [Cyatheaceae]. *Calif. Hort. Soc. J.* 12:3-12. Ref. Jan.1951. 81 C1293

Bryophytes

- 33884 FABIUS, FRÈRE. Quelques mousses rares ou intéressantes récoltées dans les environs de Granby. *Nat. Canad.* 77:313-317. Nov./Dec.1950. 410 N216
- 33885 HERZOG, T. *Miscellanea bryologica*. I. Neotropica. *Soc. pro Fauna et Flora Fenn. Memo.* (1948-49) 25:43-72. 1950. 511 H365Me
- 33886 KUCYNIK, J. Muscinées nouvelles pour le Québec: *Calypogeia fissia*, *Odontoschisma elongatum*, *Didymodon rufus* et *Hypnum Bambergeri*. *Nat. Canad.* 77:305-312. Ref. Nov./Dec.1950. 410 N216
- 33887 SCHUSTER, R. M. Notes on Nearctic Hepaticae. III. A conspectus of the family Lophaziaceae, with a revision of the genera and subgenera. *Amer. Midland Nat.* 45:1-117. Ref. Jan.1951. 410 M58

Algae

- 33888 ALLEN, G. O. *Nitella mucronata* Miq. var. *gracillima* Gr. & B.-W. in Warwickshire. *Watsonia* 1:364-365. Dec.1950. 450 W33
- 33889 BOURRELLY, P., and CHADEFAUD, M. Sur les caractères d'un *Mallomonas* et les affinités des *Chrysophyceae*. *Acad. des Sci. Compt. Rend.* 232:434-436. Jan.29,1951. 505 P21
- 33890 DAWSON, E. Y. On the status of the brown alga, *Dictyota binghamiae* J. G. Agardh. *Wasmann J. Biol.* 8:267-269. Ref. Fall 1950. 442.8 W28
- 33891 HÄYRÉN, E. Finds of algae in the Borge archipelago. (In Swedish.) *Soc. pro Fauna et Flora Fenn. Memo.* (1948-49)25:86-87. 1950. 511 H365Me
- 33892 HÄYRÉN, E. Some algae from Bomarsund on Åland. (In Swedish.) *Soc. pro Fauna et Flora Fenn. Memo.* (1948-49)25:2. 1950. 511 H365Me
- 33893 KAMSHILOV, M. M. Peculiarities of distribution of the diatom, *Rhizosolenia hebetata* F. semispina in plankton. (In Russian.) *Akad. Nauk SSSR. Dok.* 75:747-748. Ref. Dec.11,1950. 511 P444A
- 33894 MULLAY, J. H. Some observations on the reproduction of life cycle of *Lemanea australis* Atk. (Abs.) *Amer. J. Bot.* 37:666. Oct.1950. 450 Am36
- 33895 VILLERET, S. Une nouvelle espèce d'algue hétérokontée: *Gloeochloris mangeloti* nov. sp. *Soc. Sci. de Bretagne. B. (Sci. Math. Phys. et Nat.)* 24:91-96. 1949, pub.1950. 505 R292
- 33896 VILLERET, S. Remarques sur le *Cosmarium coronatum* Cooke et Wills. *Soc. Sci. de Bretagne. B. (Sci. Math. Phys. et Nat.)* 24:105-107. 1949, pub.1950. 505 R292
- 33897 VILLERET, S. La reproduction sexuée chez *Draparnaldia plumosa* (Vauch.) Ag. (Chlorophycée-Chaetophorée). *Soc. Sci. de Bretagne. B. (Sci. Math. Phys. et Nat.)* 24:71-74. 1949, pub.1950. 505 R292

Fungi (Including Lichens)

- 33898 AHMAD, S. Fungi of Pakistan. II. *Sydowia* 4:82-83. Sept.30,1950. 450 Sy2
- Includes new species in *Hysteroglyphium*.
- 33899 AHMAD, S. Studies in the *Gasteromycetes*. IV-V. *Sydowia* 4:39-43,124-129. Sept.30,1950. 450 Sy2
- Lanopila wahlbergii*, *Octaviana longiana*, and *Geastrum panjabense*.
- 33900 ARX, J. A. VON. Eine neue *Ascomycetengattung* [*Gyothyrium*] aus Holland. *Sydowia* 4:399-401. Sept.30,1950. 450 Sy2
- 33901 ARX, J. A. VON. Einige neue *Ascomyceten* aus der Schweiz. *Sydowia* 4:389-398. Sept.30,1950. 450 Sy2
- New species in: *Didymella*, *Venturia*, *Hypoderma*, *Lophodermium*, *Pyrenopeziza*, and *Pirothaea*.

- 33902 ARX, J. A. VON. Über die ascusform von *Cladosporium herbarum* (Pers.) Link. *Sydowia* 4:320-324. Ref. Sept.30,1950.
- English summary.
- 33903 BAXTER, J. W., and CUMMINS, G. B. *Polloma Arth.*, a valid genus of the *Uredinales*. *Torrey Bot. Club. B.* 78:51-55. Jan./Feb.1951. 451 T63B
- 33904 CICCARONE, A. Note on *Lignieria verrucosa* Maire and Tison. (In Italian.) *Nuovo Giorn. Bot. Ital.* (n.s.)56:289-291. 1949. 450 N92
- 33905 DAVIS, E., and SUTTON, W. D. Some *Myxomycetes* of Canada. *Canad. Field-Nat.* 64:180-185. Ref. Sept./Oct.1950. 410.9 Ot8
- 33906 DEMOLON, A., and ROZOWSKA, R. Sur la variabilité dans le genre *Rhizobium léguminosarum* Franck (Bact. radic.). *Acad. des Sci. Compt. Rend.* 232:372-375. Jan.29,1951. 505 P21
- 33907 ESFANDIARI, E., and PETRAK, F. Pilze aus Iran. *Sydowia* 4:11-38. Sept.30,1950. 450 Sy2
- New species in: *Tubercinia*, *Pleospora*, *Telchospora*, *Xylophaeria*, *Zignoella*, *Tryblidaria*, *Ascochyella*, *Coniothyrium*, *Ligniella*, *Septoria*, *Stemphylium*, *Stigmia*, and *Thyrostroma*.
- 33908 HAHMANN, K., and MÜLLER, H. Der hauschwamm als holzzerstörer. *Gesunde Pflanzen* 2:174-176. July 1950. 464.8 G33
- Merullus lachrymans*.
- 33909 HAKULINEN, R. Beobachtungen über die flechtenflora in der gegend von jyvässkylä, Mittelfinnland. (In Finnish.) *Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat* (1950)5:51-64. 410.9 Su7T
- German summary.
- 33910 HAKULINEN, R. Einige bemerkenswerte flechtenfunde aus Finnland. *Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat* (1949)4:105. 410.9 Su7T
- 33911 HÖFLER, K. Einige beobachtungen an *Ancylistes closterii* Pfitzer. *Sydowia* 4:381-388. Ref. Sept. 30,1950. 450 Sy2
- 33912 HOLTON, C. S., and LOWTHER, C. V. Heritability of number of primary sporidia produced by spores of *Tilletia caries* and *T. foetida*. *Phytopathology* 41:172-177. Feb.1951. 464.8 P56
- 33913 JANKE, A. Zur systematik der spross- und schimmelpilze. *Sydowia* 4:44-52. Ref. Sept.30,1950. 40 Sy2
- 33914 KARLING, J. S. *Cladochytrium setigerum* sp. nov. and *Septochytrium marilandicum* sp. nov. from Maryland. *Torrey Bot. Club. B.* 78:38-43. Jan./Feb. 1951. 451 T63B
- 33915 KLEMENT, O. Über die artberechtigung einiger Parmelien. *Deut. Bot. Gesell. Ber.* 63:47-52. Ref. Oct.1950. 451 D48
- 33916 LING, L. Taxonomic notes on Asiatic smuts. II. *Sydowia* 4:74-81. Ref. Sept.30,1950. 450 Sy2
- Includes new species in: *Ustilago*, *Sphacelotheca*, and *Sorosporium*.
- 33917 LUTHER, H. Beobachtungen über *Tetramyxa parasitica* Goebel. *Soc. pro Fauna et Flora Fenn. Memo.* (1948-49)25:88-96. Ref. 1950. 511 H365Me
- 33918 MAGNUSSON, A. H. En lavexkursion på Norges sydskust [A lichen excursion on the south coast of Norway]. *Nytt Mag. f. Natvidensk.* 87:197-220. 1949. 410 N99
- English summary.
- Includes new species in: *Dermatocarpon*, *Lecanora*, and *Rinodina*.
- 33919 MALMSTRÖM, N. *Armillaria imperialis* Fr. from N. Tusby. (In Swedish.) *Soc. pro Fauna et Flora Fenn. Memo.* (1948-49)25:3. 1950. 511 H365Me
- 33920 MALMSTRÖM, N. *Lepiota micropholis* B. et Br. and *Armillaria focalis* Fr., two *Agaricaceae* new to this country. (In Swedish.) *Soc. pro Fauna et Flora Fenn. Memo.* (1948-49)25:7-10. 1950. 511 H365Me
- 33921 MOSER, M. Neue pilzfunde aus Tirol. *Sydowia* 4:84-123. Ref. Sept.30,1950. 450 Sy2
- 33922 MÜLLER, E. Die schweizerischen arten der gattung *Leptosphaeria* und ihrer verwandten. *Sydowia* 4:185-319. Ref. Sept.30,1950. 450 Sy2
- Includes new species in: *Pleospora*, *Wettsteinia*, and *Leptosphaeria*.
- 33923 NYBERG, W. Two rare fungi, *Armillaria imperialis* Fr. and *Craterellus clavatus* (Pers.) Fr. (In Swedish.) *Soc. pro Fauna et Flora Fenn. Memo.* (1948-49)25:3. 1950. 511 H365Me



- 33924 PESANTE, A. On the appearance of a Septobasidium in the neighborhood of Turin. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:241-244. 1949. 450 N92
- 33925 PETRAK, F. *Allonectella* n. gen., eine neue gattung der Sphaeriales. *Sydowia* 4:345-348. Sept.30, 1950. 450 Sy2
- 33926 PETRAK, F. Beiträge zur pilzflora von Ekuador. *Sydowia* 4:450-587. Sept.30,1950. 450 Sy2  
Includes new species in: *Aphanopeltis*, *Asterina*, *Asterinella*, *Bagnisiopsis*, *Calonectria*, *Chaetothyria*, *Dimerium*, *Echidnodes*, *Gibbera*, *Leptosphaeria*, *Mollerielia*, *Heterosporiopsis* n. g., *Phaeodimeriella*, *Phyllachora*, *Polycyclus*, *Schiffnerula*, *Synostomella*, *Telimenopsis* n. g., *Lachnum*, *Pezicula*, *Phialea*, *Asterostomula*, *Camarosporium*, *Cicinobella*, *Cryptocline*, *Ectosticta*, *Elachopeltis*, *Pestalotia*, *Phomopsis*, *Stagonospora*, *Acrocladium*, *Cercospora*, *Cercosporiella*, *Fusarium*, *Graphium*, *Helicosporium*, *Helminthosporium*, *Hormiscium*, *Papularia*, *Ramularia*, *Stemphylium*, *Nematostoma*, *Parodiopsis*, *Nectria*, and *Mycosphaerella*.
- 33927 PETRAK, F. *Biotictis* n. gen., eine neue Diskomyzetengattung aus Ekuador. *Sydowia* 4:357-360. Sept.30,1950. 450 Sy2
- 33928 PETRAK, F. *Creangium* n. gen., eine neue gattung der Myriangiales. *Sydowia* 4:361-364. Sept.30, 1950. 450 Sy2
- 33929 PETRAK, F. *Cryptoparodia* n. gen., eine neue Pyrenomyzetengattung. *Sydowia* 4:365-368. Sept.30, 1950. 450 Sy2
- 33930 PETRAK, F. *Epterea* n. gen., eine neue gattung der Hypocreaceen. *Sydowia* 4:325-328. Sept.30, 1950. 450 Sy2
- 33931 PETRAK, F. *Fungi beltsvillenses*. I. *Sydowia* 4:402-408. Sept.30,1950. 450 Sy2  
Includes *Cryptosporiella beltsvillensis* n. sp.
- 33932 PETRAK, F. *Gaeumannia* n. gen., eine neue gattung der Sphaeriales. *Sydowia* 4:337-340. Sept.30, 1950. 450 Sy2
- 33933 PETRAK, F. *Lasiostemmella* n. gen., eine neue gattung der Dimerieen. *Sydowia* 4:376-380. Sept.30, 1950. 450 Sy2
- 33934 PETRAK, F. *Metazythia* n. gen., eine neue gattung der phomoiden Sphaeropsideen. *Sydowia* 4:373-375. Sept.30,1950. 450 Sy2
- 33935 PETRAK, F. *Neodimerium* n. gen., eine neue gattung der Dimerieen. *Sydowia* 4:341-344. Sept.30,1950. 450 Sy2
- 33936 PETRAK, F. *Neopeltella* n. gen., eine neue gattung der Dictyopeltineen. *Sydowia* 4:329-332. Sept.30, 1950. 450 Sy2
- 33937 PETRAK, F. *Neophacidium* n. gen., eine neue Diskomyzetengattung aus Ekuador. *Sydowia* 4:333-336. Sept.30,1950. 450 Sy2
- 33938 PETRAK, F. *Parancoelia* n. gen., eine neue gattung der Encoeliodeen. *Sydowia* 4:349-356. Sept.30, 1950. 450 Sy2
- 33939 PETRAK, F. Über die gattung *Gaillardella*. *Pat.* *Sydowia* 4:158-162. Sept.30,1950. 450 Sy2
- 33940 PETRAK, F. Über *Loranthomyces* v. Höhn. und einige andere gattungen der Trichothyriaceen. *Sydowia* 4:163-174. Ref. Sept.30,1950. 450 Sy2  
Includes new species in: *Trichothyria* n. g. and *Trichothyria* n. g.
- 33941 PETRAK, F. *Xenostigmella* nov. gen., eine neue Pyrenomyzetengattung aus Ekuador. *Sydowia* 4:369-372. Sept.30,1950. 450 Sy2
- 33942 RASANEN, V. Lichenes novi. VI. Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1950)5:25-32. 410.9 Su7T
- 33943 RISHBETH, J. Observations on the biology of *Fomes annosus*, with particular reference to East Anglian pine plantations. II. *Ann. Bot.* (n.s.)15:1-21. Ref. Jan. 1951. 450 An7
- 33944 SINGER, R. New and interesting species of Basidiomycetes. III. *Sydowia* 4:130-157. Sept.30,1950. 450 Sy2  
Includes new species in: *Conocybe*, *Pholiotina*, *Naucoria*, and *Alnicola*.
- 33945 STAUFFER, J. F., CHURCHILL, B. W., and BACKUS, M. P. Cultural and nutritional characteristics of the "A-type" variant in *Penicillium chrysogenum*, Wis Q-176. (Abs.) *Amer. J. Bot.* 37:671. Oct.1950. 450 Am36

- 33946 THIRUMALACHAR, M. J. Some new or interesting fungi. II. *Sydowia* 4:66-73. Sept.30,1950. 450 Sy2

New species in: *Cercosporiella*, *Helminthosporium*, *Cylindrosporium*, *Microstroma*, *Phleospora*, *Macrophoma*, *Stagonospora*, *Ascochyta*, and *Ramulispora*.

## PATHOLOGY

## General

- 33947 ANDERSEN, A. L. Observations on bean diseases in Michigan during 1949 and 1950. *Plant Dis. Rptr.* 35:89-90. Feb.15,1951. 1.9 P69P
- 33948 ARK, P. A. California orchids resistant to some diseases in habitat become susceptible in greenhouse. *Calif. Agr.* [Calif. Sta.] 5(2):7,14. Feb.1951. 100 C12Cag
- 33949 ASQUITH, D. Concentrates cut costs. *Pa. Farmer* 144:147,175. Feb.24,1951. 6 P383  
Concentrate spraying of fruit.
- 33950 BASTELEUS, R. Quand les vignes sont malades. *Cour. Hort.* 12:658-660. Dec.1950. 80 C834
- 33951 BEAUMONT, A. Diseases of Dahlias. *Gard. Chron.* 128:247. Dec.30,1950. 80 G162
- 33952 BEEKENKAMP, G. Disease control calendar for vegetables and fruit under glass. (In Dutch.) *Fruiteelt* 41:26. Jan.11,1951. 86 N28
- 33953 BERKELEY, G. H. Trends in disease control. *Canad. Grower* 74(2):5-6. Feb.26,1951. 80 C16
- 33954 BESEMER, A. F. H. Two years of mist spraying in fruit culture. (In Dutch.) *Fruiteelt* 40:999-1000; 41:7-9. Christmas 1950-Jan.4,1951. 86 N28
- 33955 BLUNCK, H. Pflanzenschutz in der Türkei. *Gesunde Pflanzen* 2:2-4. Jan.1950. 464.8 G33
- 33956 BROWN, A. C. Plant inspection and quarantine and their relationship to the horticultural interests of Florida. *Citrus Indus.* 32(3):5-9,18. Mar.1951. 80 C492
- 33957 BURDICK, E. M. Symptoms of freeze damage in citrus fruit. *Rio Grande Val. Hort. Inst. Proc.* 5:117-120. 1951. 81 L95
- 33958 BURRELL, A. B. Are we ready for concentrate spraying? *Va. Fruit* 39(2):70-81. Feb.1951. 81 V81B
- 33959 BURRELL, A. B. Concentrate spraying for deciduous orchards. *Amer. Fruit Grower* 71(2):21,50-53. Feb.1951. 80 G85
- 33960 BUSCH, L. V., and GILPATRICK, J. D. A possible quick method for testing the virulence of *Streptomyces scabies* (Thaxt.) Waksman and Henrici. (Abs.) *Canad. Phytopath. Soc. Proc.* (1950)17:10. Jan.27,1951. 464.9 C162
- 33961 CAIRASCHI, E. A. Pflanzenschutz - trotz allem! *Bas-Rhin Agr.* 6:90. (To be cont.) Feb.24,1951. 14 B29  
Fruit.
- 33962 CALVERT, O. H., and YOUNG, P. A. Lenticel-like blemishes on tomato fruits. *Plant Dis. Rptr.* 35:120. Feb.15,1951. 1.9 P69P
- 33963 CANADIAN PHYTOPATHOLOGICAL SOCIETY. Proceedings, seventeenth session, June 26-30, 1950, Charlottetown, P. E. I. n.p., 1950. 19 p. 464.9 C162
- 33964 CERCOS, A. P. Antagonismo y antibiosis en relación con los patógenos vegetales. *IDIA; Inform. de Invest. Agr.* 3(35/36):13-19. Ref. Nov./Dec.1950. 9 Id3
- 33965 CHAMBERLAIN, D., and KOEHLER, B. Soybean diseases in Illinois. *Ill. Agr. Col. Ext. C.* 676,31 p. Jan.1951. 275.29 IL62C
- 33966 CHILDERS, N. F. Early leaf drop on some apple trees last fall. *N. J. State Hort. Soc. Hort. News* 32:2335. Jan.1951. 81 N46
- 33967 CHOQUETTE, C. Pourquoi, quand et comment arroser? *B. des Agr.* 47(2):22-23,29. Feb.1951. 7 B872  
Spraying fruit trees.
- 33968 CICCARENE, A. Phytopathology and mycology. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:308-311. 1949. 450 N92
- 33969 CLEMARES MIRALLES, E. La gomosis y la tristeza de los citrus. *Cult. Mod.* 33:451-452. Dec.1950. 15 C89
- 33970 COMMONWEALTH MYCOLOGICAL INSTITUTE. Distribution maps of plant diseases. 215-216. *Rev. Kew*, 1950. 464.9 Im7
- 33971 CORVIN, A. Über den köderwert von ratten-giften. *Pflanzenarzt* 4:1-3. (To be cont.) Jan.1,1951. 464.9 P482



- 33972 DAVIS, V. H. Keep posted on spraying information. Ohio Farm Bur. News 30(8):18,34-35. Mar.1951. 6 Oh34
- 33973 DIMMOCK, A. W. Highlights of current disease research. South. Florist & Nurseryman 63(50):11-12,50-51. Mar.9,1951. 80 So86
- 33974 DOOLITTLE, S. P., and others. New organic chemicals are conquering plant diseases; seed treatment, spraying, dusting all produce much-needed results. South. Seedsman 14(2):17,41-43. Feb.1951. 61.8 So8
- K. W. Kreitlow, R. W. Leukel, and J. T. Presley, joint authors.
- 33975 ELLIS, D. E. Noteworthy diseases of cucurbits in North Carolina in 1949 and 1950. Plant Dis. Rptr. 35:91-93. Feb.15,1951. 1.9 P69P
- 33976 ENGELS, O. Pflanzenschutz und unkrautbekämpfung tut not! Tech. f. Bauern u. Gärt. Ausg. A 2: 637-638. Nov.10,1950. 58.8 T223
- 33977 FAGUNDES, F. C. Plant sanitation station of the Angra do Heroísmo District. (In Portuguese.) Azores Comis. Regulad. dos Cereais. B. 7(13):119-120. First Semes.1951. 15 Az6
- 33978 FISCHER, W. Sperlingsbekämpfung auf neue art. Gesunde Pflanzen 2:304-306. Dec.1950. 464.8 G33
- 33979 FJELDDALEN, J. Bigger pests in the orchard. (In Norwegian.) Norsk Hagetid. 67:3-5. Jan.1,1951. 80 N81
- Wildlife as pests.
- 33980 GOLDSWORTHY, M. C. Fruit disease control. Amer. Fruit Grower 71(2):17,55. Feb.1951. 80 G85
- 33981 GONDIM, E. DE C. Plant sanitation activities in the Horta District. (In Portuguese.) Azores Comis. Regulad. dos Cereais. B. 7(13):120-121. First Semes. 1951. 15 Az6
- 33982 HALLIDAY, H. E. Where do we go in Gladiolus disease control. Wis. Hort. 42:121. Feb.1951. 80 W752
- 33983 HANF, E. Gesunde pflanzen auf gesundem boden. Gesunde Pflanzen 2:95-98. Apr.1950. 464.8 G33
- 33984 HEINRICH, H. Pflanzenhygiene. Obstbau 69: 185-186. Dec.1,1950. 80 Ob73
- 33985 HITONEN, I. Ein neuer fall von zapfensucht bei der keifer, Pinus silvestris L., und wie ein solcher zu erklären ist. Soc. pro Fauna et Flora Fenn. Memo. (1948-49)25:115-120. 1950. 511 H365Me
- 33986 HOLDER, J. VAN, and WELVAERT, W. Methode voor het testen van fungistatische afscheidingsproducten door schimmels [Method for testing antibiotic substances produced by molds]. Gent. Landbhogesch. Meded. 15:522-525. June 1950. 105.1 G344
- For plant diseases.
- 33987 HOLMES, E. Plant protection of arable and grass land. Roy. Inst. Chartered Surveyors. J. 30:662-669. Feb.1951. 282.9 C38J
- Weed, insect, and disease control by chemical methods.
- 33988 HUS, P. Winter or spring spraying? (In Dutch.) Fruitteelt 41:79-80. Feb.1,1951. 86 N28
- Fruit.
- 33989 IHRIG, H. G. Winter takes its toll. Arboretum B. 13(4):14,25. Winter 1950. 451 Ar1
- Effects on different Rhododendron varieties.
- 33990 JÜSTEN. Pflanzenschutzbestimmungen, die beim import zu berücksichtigen sind. Gesunde Pflanzen 2:140-144. June 1950. 464.8 G33
- 33991 KAISER, W. Neues über pflanzenschutzmittel. Gesunde Pflanzen 2:187-191. July 1950. 464.8 G33
- 33992 KELSHEIMER, E. G. Mixing vegetable sprays; safety, results depend on compatibility. Fla. Grower 59(2):26. Feb.1951. 80 F6622
- 33993 KERSTENS, J. Winter spraying. (In Dutch.) Boer en Tuinder 5(212):4. Feb.10,1951. 12 B632
- 33994 KERSTING. Aeusserlich nicht sichtbare schäden der kartoffelnolle. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:164. Feb.1,1951. 18 L2346
- 33995 KERSTING. Glasige steckrübren. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:166. Feb.1,1951. 18 L2346
- 33996 KLEIN, F. Witterung und schädlingaufreten. Gesunde Pflanzen 2:17-18. Jan.1950. 464.8 G33
- 33997 KOOPMAN, C. New resistant pea varieties. (In Dutch.) Nieuwe Veldbode 17:304. Feb.1,1951. 12 V542N
- 33998 KOTTE, W. Wie hält man die tomatenpflanzen gesund? Gesunde Pflanzen 2:169-173. July 1950. 464.8 G33
- 33999 KRONEBACH, A. Der Rebschutzdienst 1950 im Rheingau. Gesunde Pflanzen 2:278-281. Nov.1950. 464.8 G33
- 34000 KUSHNIR, T. Leaf spot diseases of Iris in Palestine. Palestine J. Bot. Jerusalem Ser. 4:230-233. Mar.1949. 450 P17
- 34001 LEIB, E. Pflanzenschutz und landwirtschaftliche praxis. Gesunde Pflanzen 2:225-229. Sept.1950. 464.8 G33
- Germany.
- 34002 LIEBSTER. Feldmäuse in obstanlagen - und gründung. Obstbauberatungsring. Mittbl. 5(6):6-7. Dec.1,1950. 85 Ob72
- 34003 LOCKWOOD, S., and COE, D. M. Delayed dormant and spring spray schedule; suggested control methods given for deciduous fruit and nut trees. Calif. Farm Bur. Mon. 32(2):1,10-11,16. Feb.1,1951. 275.293 California
- 34004 LUTTRELL, E. S. Diseases of tall fescue grass in Georgia. Plant Dis. Rptr. 35:83-85. Feb.15, 1951. 1.9 P69P
- 34005 MCWHORTER, F. P., and ANDERSON, C. J. Diseases in Croft lily plantings, 1949-50. Plant Dis. Rptr. 35:106-108. Feb.15,1951. 1.9 P69P
- 34006 MARLE, G. S. VAN. Information on the control of diseases and pests in England. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:96-106. Feb.1950. 86 N384
- 34007 MARSDEN, D. H. Gas injury to trees. Trees 11(2):7,20. (Concl.) Jan./Feb.1951. 99.8 W52
- 34008 MILLER, M. A. Eradication of pocket gophers; comparative field tests demonstrate best poisons, baits, and dosages for practical gopher control. Calif. Agr. [Calif. Sta.] 4(12):8-10. Dec.1950. 100 C12Cag
- 34009 MILLS, W. D., and LAPLANTE, A. A. 1951 spray schedules for tree fruits. N. Y. Agr. Col. Cornell Ext. B. 812,24 p. Feb.1951. 275.29 N48E
- 34010 MINISCALCO, V. Protection against hail. (In Italian.) Cam. di Com. Indus. e Agr. del Friuli. B. Uffic. (n.s.)4(11):3-5. Nov.1950. 287 Ud5
- 34011 MITCHELL, A. E. Weather affects spray injury. Amer. Fruit Grower 71(3):13,26-27. Mar.1951. 80 G85
- 34012 NETHERLANDS. PLANTENZIEKTENKUNDIGE DIENST. Ziekten en plagen in land- en tuinbouwgewassen en hun bestrijding in 1949 [Diseases and pests in agriculture and horticulture and their control in 1949]. Netherlands. Plantenziektenk. Dienst. Verslagen en Meded. 117,85 p. Sept.1950. 464.9 W122
- 34013 NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 1951 spraying recommendations for apples. N. J. Agr. Col. Ext. Spray Calendar 44,12 p. Feb.1951. 275.29 N46Sp
- 34014 NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 1951 spraying recommendations for peaches. N. J. Agr. Col. Ext. Spray Calendar 45,8 p. Feb.1951. 275.29 N46Sp
- 34015 NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGICAL BR. DIV. OF SCIENCE SERV. Diseases of barley. N. S. Wales. Dept. Agr. Plant Dis: L. 111,6 p. 1950. 464.9 N47
- 34016 NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGICAL BR. DIV. OF SCIENCE SERV. Diseases of peas. N. S. Wales. Dept. Agr. Plant Dis: L. 89,4 p. 1950. 464.9 N47
- 34017 NYCE, S. L. An approach to dieback. Camellian 1:80,97. Dec.1950. 97.31 C14
- 34018 PARRIS, G. K. Hints to 1951 melon growers; you can control leaf and fruit diseases. Fla. Grower 59(2):4,18. Feb.1951. 80 F6622
- 34019 PESANTE, A. On a case of damage to vegetation due to tarry substances. (In Italian.) Ann. della Sper. Agr. (n.s.):5:179-200. 1951. 16 An76
- English summary.
- Industrial fumes.
- 34020 PONT, A. Les bouillies pour atomiseurs. Phytoma 3(21):19-20. Dec.1950. 464.8 P563
- 34021 RAWLINGS, C. O. Some rootstock problems relative to walnut girdle and crown rot. Nowest. Nut Bowl 2(6):4-5,7. Dec.1950. 94.68 N81
- 34022 REED, C. F. Host distribution of mistletoe (Phoradendron flavescens) in Kentucky. (Abs.) Amer. J. Bot. 37:666. Oct.1950. 450 Am36
- 34023 REYES, G. M. Seed-borne diseases of rice. Philippines. Bur. Plant Indus. Plant Indus. Digest 13(6):7-9. June 1950. 25 P544P



- 34024 RIEUF, P. Le dépérissement des abricotiers. II. Fruits et Primeurs de l'Afrique du Nord. Ed. Marocaine 20:393-395. Ref. Dec.1950. 80 F9482
- 34025 RIVEROS, J. E. El court noué de la viña. Vinos, Vinas y Frutas 45:300-301,303. Dec.1950. 9 Ag89
- 34026 ROHRBACH, F. Ein "mistel"-baum. Gesunde Pflanzen 2:297-299. Dec.1950. 464.8 G33  
Viscum album on apple.
- 34027 RUGE, U. Über die möglichen ursachen des buchensterbens. Allg. Forstz. 5:217-219. Ref. May 10, 1950. 99.8 AL52
- 34028 SCHAEFER, J. W. Winter came and went. Arboretum B. 13(4):20-21. Winter 1950. 451 Ar1  
Effect on Camellia, Azalea and Rhododendron.
- 34029 SCHENK, P. J. What do we do with the bean poles? (In Dutch.) Groenten en Fruit 6:382. Nov.30,1950 80 G89  
Treatment to prevent transmission of diseases.
- 34030 SCHINDLER, H. Die krankheiten der paradespflanzen. Gartenbauwirtschaft [Wien] 1950:279-280. Dec. 25,1950. 80 G1936
- 34031 SCHMIDT, H. Beobachtung über gasschäden an obstbäumen. Deut. Baumsch. 3:10-12. Jan.1,1951. 80 D486
- 34032 SCHOEL, W. Aus der gesetzgebung auf dem gebiete des pflanzeneschutzes. Gesunde Pflanzen 2:264-265. Oct.1950. 464.8 G33
- 34033 SCHOEL, W. Pflanzenschutzbestimmungen für die einfuhr von pflanzen, -teilen u. -erzeugnissen. Gesunde Pflanzen 2:18-20. Jan.1950. 464.8 G33
- 34034 SCHOEL, W. Die wichtigsten schädlinge des bearbeiteten holzes. Gesunde Pflanzen 2:156-158. June 1950. 464.8 G33
- 34035 SCHWARTZ, E. Der pflanzenschutz auf der ersten grossen Landwirtschafts-Ausstellung der Deutschen Demokratischen Republik. Nachrbl. f. den Deut. Pflanzenschutzdienst (n.s.):4:235. Dec.1950. 464.9 N11
- 34036 SCOSSIROLI, R. Investigations on the dwarf disease of maize. (In Italian.) Ann. della Sper. Agr. (n.s.):5:157-177. Ref. 1951. 16 An76  
English summary.
- 34037 SECHET, M. Sur quelques affections des cultures observées à Madagascar durant le premier semestre 1950. Madagascar. Insp. Gén. des Serv. Agr. B. Agr. 3(25/26):11-13. July/Aug.1950. 25 M26
- 34038 SERRANO, P. Small farmer discovers cure for cadang-cadang. Agr. & Indus. Life 13:25. Jan.1951. 25 Ag8  
On coconuts.
- 34039 SPURLING, M. B. Water requirements of citrus. III. Citrus leaf drop. So. Austral. Dept. Agr. J. 54:190-194. Nov.1950. 23 So84
- 34040 STONER, W. N. Tomato 'graywall' is puzzle; infected organism does not transmit the disease. Fla. Grower 59(3):25,27. Mar.1951. 80 F6622
- 34041 TESKE, A. H. 1951 spray program for apples and peaches. Va. Fruit 39(2):119-145. Feb.1951. 81 V81B  
Chiefly discussion.
- 34042 THULLBERRY, H. A., and MATHIAS, A. F. The post-bloom spray. Citrus Mag. 13(7):23. Mar.1951. 80 C498
- 34043 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine import restrictions of the Republic of France; importation of conifers restricted. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 403(2d rev, sup.1), 1 p. Jan.17,1951. 1.9 F73
- 34044 VANDERWALLE, R. Observations et recherches effectuées pendant l'année 1949. Inst. Agron. et Sta. de Rech. de Gembloux. B. 18(1/2):180-189. 1950. 105.1 G285  
Plant pathology.
- 34045 VAN WORMER, H. M. Basic tree ailments augmented by girdling the roots. Arborist's News 16:2-6. Jan.1951. 99.8 Ar14
- 34046 WADE, G. C. Keeping out foreign plant diseases. Tasmania. Dept. Agr. Tasmanian J. Agr. 21:335-337. Nov.1,1950. 23 T182T
- 34047 WAHLIN, B. Plant protection in Ostergötland; a survey of the year 1950. (In Swedish.) Lantmännen 35: 10-11. Jan.6,1951. 11 L234
- 34048 WALKER, R. E. Disease control and rehabilitation in the special area. Cocoa, Choc. & Confectionery Alliance. Rpt. Conf. Cocoa 1950:8-11. 68.39 In82
- 34049 WASHINGTON STATE COLLEGE. INSTITUTE OF AGRICULTURAL SCIENCES. Spray programs for tree fruits in eastern Washington. Wash. State Col. Ext. B. 418, rev., 35 p. Feb.1951. 275.29 W27P  
Washington State Department of Agriculture, U. S. Department of Agriculture, and the University of Washington School of Medicine cooperating.
- 34050 WIEN. BUNDESANSTALT FÜR PFLANZEN-SCHUTZ. Amtliches pflanzenschutzmittelverzeichnis 1951. Pflanzenschutz 3(4, spec. no.):1-11. Dec.1950. 464.9 P482
- 34051 WILHELM, S., THOMAS, H. E., and KOCH, E. C. Diseases of the loganberry. Calif. Agr. [Calif. Sta.] 5(1):11,14. Jan.1951. 100 C12Cag
- 34052 YOUNG, P. A. Increasing tomato profits by controlling diseases. Rio Grande Val. Hort. Inst. Proc. 5: 10-15. 1951. 81 L95
- 34053 ZAJAC, S. Production of plant protecting agents. (In Polish.) Przem. Chem. 6:553-556. Oct.1950. 385 P952  
English summary.
- 34054 ZILLIG, H. Der pflanzenarzt. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:81-87. Mar./Apr.1950. 464.8 Z3

## Diseases Caused by Fungi

- 34055 ANDERSON, E. J. A simple method for detecting the presence of Phytophthora cinnamomi Rands in soil. Phytopathology 41:187-189. Feb.1951. 464.8 P56
- 34056 BANT, J. H., BEAUMONT, A., and STOREY, I. F. Hot-water treatment of broccoli seed. Gt. Brit. Natl. Agr. Adv. Serv. Q. Rev. 9:43-46. Autumn 1950. 241 G796
- 34057 BAPTISTA, C. R. "Mildew" of sugar beets (Cercospora beticola, Sacc.) (In Portuguese.) Azores. Comis. Regulad. dos Cereais. B. 7(13):102-108. First Semes.1951. 15 Az6
- 34058 BENTZ, T. What is being done to stop fungus menacing aspen? Wood Prod. 56(2):16-17. Feb.1951. 99.82 W856
- 34059 BERNON, G., and others. L'excoriose. Prog. Agr. et Vitic. 1951:8-13. Jan.7/14,1951. 14 P94  
D. Boubals, P. Huglin, and R. Amphoux, joint authors. Grapes.
- 34060 BLUMER, S. Organische schorfbekämpfungsmittel. Schweiz. Z. f. Obst- u. Weinbau 60:67-70. Feb.24,1951. 80 Sch9  
Apples.
- 34061 BLUMER, S. Der spritzplan 1951; bemerkungen zur schorff- und mehltaubekämpfung. Schweiz. Z. f. Obst- u. Weinbau 60:35-37. Jan.27,1951. 80 Sch9
- 34062 BOCKMANN, H. Über fusskrankheiten an erbsen. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:327-334. Sept./Oct.1950. 464.8 Z3
- 34063 BORDERS, H. I. Tests of fungicides for the control of tomato plant diseases in south Georgia, 1949-1950. Plant Dis. Rptr. 35:98-101. Feb.15,1951. 1.9 P69P
- 34064 BOURIQUET. Les fongicides et les herbicides dans les territoires française d'outre-mer. (Sum.) Agron. Trop. 6:80-81. Jan./Feb.1951. 26 Ag86
- 34065 BURRELL, A. B. How we fight apple scab in New York. Va. Fruit 39(2):29-40. Feb.1951. 81 V81B  
Includes discussion.
- 34066 CAMPACCI, C. A. Onion rust [Puccinia allii]. (In Portuguese.) Biologico 16:185-187. Sept.1950. 442.8 B529
- 34067 CHAMBERLAIN, G. C. Control of anthracnose [Elsinoe veneta] of red raspberries and downy mildew [Plasmopara viticola] of grapes in Ontario. (Abs.) Canad. Phytopath. Soc. Proc. (1950)17:10. Jan.27,1951. 464.9 C162
- 34068 CHAMBERLAIN, G. C. Results of fungicidal trials for scab control in Ontario. (Abs.) Canad. Phytopath. Soc. Proc. (1950)17:10-11. Jan.27,1951. 464.9 C162  
Apples.
- 34069 CIFERRI, R. Antibiotics and antiparasitics for plants. (In Italian.) Humus 6(12):9-10. Dec.1950. 16 H88  
Fungus and insect control.
- 34070 COSSETTE, M. Vous aurez des récoltes plus favorables si vous désinfectez bien vos semences. B. des Agr. 47(2):16-17,19. Feb.1951. 7 B872
- 34071 DIMOCK, A. W. The dispersal of viable fungus spores by insecticides. Phytopathology 41:152-156. Feb.1951. 464.8 P56



- 34072 DIMOCK, A. W. The dispersal of viable spores of phytopathogenic fungi by fungicidal sprays. *Phytopathology* 41:157-163. Feb.1951. 464.8 P56
- 34073 DIPLER, R. V. La enfermedad del banano. *Rev. de Agr. Com. e Indus.* [Panama] 8(111/112):17-18. (Cont.) Nov./Dec.1950. 8 R3291  
Leaf spot.
- 34074 DOBBS, C. G. Fruiting of the oak mildew [*Microspheera alphitoides*]. *Nature* [London] 167:357. Mar.3,1951. 472 N21
- 34075 DUNEGAN, J. C. Chemicals—for control of fruit diseases. *Agr. Chem.* 6(3):35-37,118-119. Mar. 1951. 381 Ag8  
Fungicides.
- 34076 FISCHER, G. W. A local, winter-time epidemic of blister smut, *Entyloma crastophilum*, on Kentucky bluegrass at Pullman, Washington. *Plant Dis. Rptr.* 35: 88. Feb.15,1951. 1.9 P69P
- 34077 FISCHER, G. W., and DIETZ, S. M. They breed new trouble for wheat barberry and 15-B. *Wash. Farmer* 76:191,204. Mar.15,1951. 6 R151
- 34079 FISCHER, H. Zur schwarzrostanfälligkeit der *Mahonia aquifolium* Nutt. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:1-4. Jan./Feb.1950. 464.8 Z3  
*Puccinia graminis*.
- 34079 FOWLER, M. E. Surveys for oak wilt [*Chalara quercina*]. *Plant Dis. Rptr.* 35:112-118. Feb.15,1951. 1.9 P69P
- 34080 GEISZLER, G. N. Will rust hit in '51? *Dakota Farmer* 71(5):6,8. Mar.3,1951. 6 D14  
Rust of wheat in North Dakota.
- 34081 GJAERUM, H. B. Recent fungicides. (In Norwegian.) *Norsk Hageetid.* 67:32-33. Feb.1/15,1951. 80 N81
- 34082 GOKHALE, V. P., and others. Breeding rust resistant varieties of wheat for Bombay State. *Poona Agr. Col. Mag.* 41:197-205. Nov.1950. 22 P79  
B. B. Chowdhary, M. K. Patel, and V. M. Chavan, joint authors.
- 34083 GOULD, C. J. Gladiolus dry rot tests in western Washington. *Plant Dis. Rptr.* 35:109. Feb.15,1951. 1.9 P69P
- 34084 GREEN, R. J. Studies on the host range of the *Verticillium* that causes wilt of *Mentha piperita* L. *Science* 113:207-208. Feb.23,1951. 470 Sc12
- 34085 GUYOMARD, L. La sensibilité à la tavelure [*Venturia inaequalis*] des variétés de pommier et de poirier cultivées en Bretagne. *Soc. Sci. de Bretagne. B.* (Sci. Math. Phys. et Nat.) 24:65-70. 1949, pub.1950. 505 R292
- 34086 HARRIS, W. B. Ground sprays for control of apple scab. *Fruit World & Mkt. Grower* 51(12):29. Dec. 11,1950. 80 F948
- 34087 HATTEMER. Zur hallimasch-frage. Gedanken zur veröffentlichung von Prof. Dr. Huber in "AF" nr. 9/1950. *Allg. Forstz.* 5:220-221. May 10,1950. 99.8 AL52
- 34088 HAWORTH, F., and LAMB, J. Crop protection by copper fungicides. I-II. *Ceylon. Tea Res. Inst. Tea Q.* 21(4):28-35. Dec.1950. 68.18 C33  
I, The effect of weather on copper residues, by F. Haworth; II, Copper residues in relation to quality, by J. Lamb.
- 34089 HENSILL, G. S. Lindane joins fight: seed treatment advanced by effective new ally. *South. Seedsman* 14(2):22,54. Feb.1951. 61.8 So8
- 34090 HOCKEY, J. F. A Botrytis cane blight of raspberry. (Abs.) *Canad. Phytopath. Soc. Proc.* (1950)17:11. Jan.27,1951. 464.9 C162
- 34091 HOLDER, J. VAN, and ONSEM, J. G. VAN. Fungi isolated from orchids. 2. (In Dutch.) *Genl. Landhogesch. Meded.* 15:515-521. June 1950. 105.1 G344  
English summary.
- 34092 HOWATT, J. L., and HODGSON, W. A. Testing potatoes for resistance to late blight *Phytophthora infestans* (Mont.) De Bary. (Abs.) *Canad. Phytopath. Soc. Proc.* (1950)17:11. Jan.27,1951. 464.9 C162
- 34093 HUNTLEY, D. N. Erysiphe graminis in barley. *Iowa State Col. J. Sci.* 25:252-253. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 34094 HUTTON, K. E. Rust of stone fruit trees. *N. S. Wales. Dept. Agr. Plant Dis. L.* 24,4 p. 1950. 464.9 N47  
*Puccinia pruni-spinosae*.
- 34095 HYAMS, E. Fungus diseases and grape-vines. *Gard. Chron.* 129:4-5. Jan.6,1951. 80 G162
- 34096 JENKINS, A. E. Sphaceloma scab, a new disease of soybeans discovered by plant pathologists in Japan. *Plant Dis. Rptr.* 35:110-111. Feb.15,1951. 1.9 P69P
- 34097 JOHNSTON, C. O., QUISENBERRY, K. S., and REITZ, L. P. Reaction of hard red winter wheats to bunt in uniform bunt nurseries (1943-1947). *Agron. J.* 43:61-66. Feb.1951. 4 Am34P
- 34098 JONG, P. DE. Power dusting against blister blight [of tea]; minimum copper content dusts being used in southern India investigations. *World Crops* 3:106. Mar.1951. 281.8 W892
- 34099 JONG, P. DE. Second thoughts on defoliation. *Planters' Chron.* 45:591-594,613-616. Nov.15-Dec.1, 1950. 22 P693  
Blister blight of Indian tea.
- 34100 JØRSTAD, L., and ROLL-HANSEN, F. *Urtica dioica* an aecidial host of *Puccinia iridis*. *Nytt Mag. f. Natvidensk.* 87:61-75. Ref. 1949. 410 N99
- 34101 KEENER, P. D. An ascigerous stage of *Darlucula filum* (Biv.) Castagne. *Plant Dis. Rptr.* 35:86-87. Feb.15,1951. 1.9 P69P
- 34102 KELENY, G. P. The effect of black-root-rot on growth of seedlings of four varieties of tobacco. *Austral. Inst. Agr. Sci.* 16:158-159. Dec.1950. 23 Au74  
*Thielaviopsis basicola*.
- 34103 KING, C., and ROGERSON, C. T. Tomato late blight in Kansas. *Plant Dis. Rptr.* 35:120. Feb.15,1951. 1.9 P69P
- 34104 LAMB, J. The blister blight control campaign. *Ceylon. Tea Res. Inst. Tea Q.* 21(4):4-7. Dec.1950. 68.18 C33
- 34105 LAMB, J. Crop protection by wet spraying compared with crop protection by dusting. *Ceylon. Tea Res. Inst. Tea Q.* 21(4):44-47. Dec.1950. 68.18 C33
- 34106 LEHMAN, S. G. Curvularia leaf blight of Ladino clover. *Plant Dis. Rptr.* 35:79-80. Feb.15,1951. 1.9 P69P
- 34107 LIESE. Neuere schwedische arbeiten über den wurzelschwamm (*Polyporus annosus* Fr.). *Forstwirtschaft. Holzwirt.* 4:233-234. Aug.1,1950. 99.8 F7793
- 34108 LIMING, O. N., REX, E. G., and LAYTON, K. Effects of a source of heavy infection on the development of Dutch elm disease [*Ceratostomella ulmi*] in a community. *Phytopathology* 41:146-151. Feb.1951. 464.8 P56
- 34109 LING, L., and JENKINS, A. E. Additional old world distribution of stem and foliage scab [*Elsinoë batatas*] of sweetpotato. *Plant Dis. Rptr.* 35:120. Feb.15, 1951. 1.9 P69P
- 34110 LINN, M. B. Control of smut in bulb onions by pelleting the seed with technical thiram. *Plant Dis. Rptr.* 35:94-96. Feb.15,1951. 1.9 T69P
- 34111 LINSKENS, H. F. Untersuchungen über den einfluss eines beizmittelzusatzes zu warmbädern. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:177-183. Ref. May/June 1950. 464.8 Z3
- 34112 LIVINGSTON, J. E. "Reds" in the wheat field. *Nebr. Farmer* 93(5):16,48-49. Mar.3,1951. 6 N27  
Stem rust in Nebraska known as physiologic race 15B.
- 34113 LOEWEL, E. L., and REICH, H. Die ergebnisse unserer diesjährigen spritzversuche (1949) unter besonderer berücksichtigung der bekämpfung von fusidkadium (*Venturia inaequalis*). Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:99-106. Mar./Apr. 1950. 464.8 Z3
- 34114 MCKEEN, W. E. Preliminary studies of root and basal stalkrot of corn in Ontario. (Abs.) *Canad. Phytopath. Soc. Proc.* (1950)17:12. Jan.27,1951. 464.9 C162
- 34115 MALAN, C. E. Disintegrating action of *Fusarium nivale* on leaves of rye in nature. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:244-246. 1949. 450 N92
- 34116 MARKUS, A. Molds threaten the lettuce culture, especially *Sclerotinia minor*. (In Dutch.) *Groenten en Fruit* 6:371. Nov.30,1950. 80 G89
- 34117 MARSH, R. W. Developments in agricultural fungicides. *Nature* [London] 167:97-98. Ref. Jan.20, 1951. 472 N21
- 34118 MASON, C. T., BROWN, R. W., and MINGA, A. E. The relationship between fungicidal activity and chemical constitution. *Phytopathology* 41:164-171. Ref. Feb.1951. 464.8 P56
- 34119 MAZZEI PATRONE, I. Control de la sarna del manzano. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 7(352):4. Dec.21,1950. 9.9 G15B  
*Venturia inaequalis*.



- 34120 MEEHAN, F. L. Helminthosporium victoriae and other graminicolous species. Iowa State Col. J. Sci. 25:292-294. Jan.1951. 470 Ios  
Abstract of thesis (Ph. D.).
- 34121 MILLER, K. Der apfelmehltau. Obstbau 69: 171. Nov.1,1950. 80 Ob73
- 34122 MILLER, P. R. 1949, '50 fungicide tests reported. Agr. Chem. 6(3):63,65,116-117. Mar.1951. 381 Ag8
- 34123 MONOT, G. Essais sur Rhizoctone. Pomme de Terre Franç. 13(135):13-16. Dec.1950. 75.8 P77
- 34124 MONTALDO, A. La fitoftora de la papa. Agr. Austral 18:570-573. Dec.1950. 9.3 Ag842  
Phytophthora infestans.
- 34125 MOREAU, C., and MOREAU, M. Une trachéomycose des caféiers en Côte d'Ivoire. Acad. des Sci. Compt. Rend. 231:1554-1556. Dec.18,1950. 505 P21
- 34126 MÜLLER-STOLL, W. R. Die bedeutung des regen- und wärmeclimas für die epidemiologie und bekämpfung der rebenperonospora [Plasmopara viticola] in den südwestdeutschen weinbaubezirken. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:161-171. May/June 1950. 464.8 Z3
- 34127 MULLIN, R. S. Results of some of the newer fungicides in controlling powdery mildew [Erysiphe polygoni] of fall snap beans. (Abs.) Va. J. Sci. (n.s.):1:331. Sept.1950. 470 V81
- 34128 NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGICAL BR. DIV. OF SCIENCE SERV. Brown spot of passion-fruit. N. S. Wales. Dept. Agr. Plant Dis. L. 14,4 p. 1950. 464.9 N47  
Caused by Alternaria passiflorae.
- 34129 NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGICAL BR. DIV. OF SCIENCE SERV. Calendula rust. N. S. Wales. Dept. Agr. Plant Dis. L. 65, 1 p. 1950. 464.9 N47  
Puccinia distincta.
- 34130 NEWTON, G. K. Blister blight—proprietors' views. Ceylon. Tea Res. Inst. Tea Q. 21(4):7-10. Dec. 1950. 68.18 C33
- 34131 NUGENT, T. J., FENNE, S. B., and WHITE, W. C. Seed treatment and seed inoculation studies with soybeans. Plant Dis. Rptr. 35:82-83. Feb.15,1951. 1.9 P69P
- 34132 OLSON, E. O. Tip blight [Phytophthora sp.] Rio Grande Val. Hort. Inst. Proc. 5:72-76. 1951. 81 L95  
On citrus seedlings.
- 34133 OLSON, E. O., and WAIBEL, C. W. Studies on the transmission of Rio Grande gummosis of grapefruit. Rio Grande Val. Hort. Inst. Proc. 5:53-59. 1951. 81 L95
- 34134 PETERS, R. How to use "fermate" fungicide. African Violet Mag. 4(3):19,46. Mar.1951. 80 Af8
- 34135 PETERSEN, P. D. Fungicides, past and present. Agr. Chem. 6(2):41-43,101,103. Feb.1951. 381 Ag8
- 34136 PEYRONEL, B. Olpidium brassicae (Wor.) Dangeard in the roots of Populus alba L. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.):56:239. 1949. 450 N92
- 34137 PONGRATZ, E. Contribution à l'étude du mécanisme de l'action fongistatique et antimétabolique de la thio-urée. Arch. des Sci. 3:331-378. (Concl.) Ref. 1950 475 Ar23
- 34138 PONTIS, R. E. A canker disease of the coffee tree in Colombia and Venezuela. Phytopathology 41:178-184. Ref. Feb.1951. 464.8 P56  
Caused by Ceratostomella fimbriata.
- 34139 POUND, G. S. Effect of air temperature on incidence and development of the early blight disease [Alternaria solani] of tomato. Phytopathology 41:127-135. Feb.1951. 464.8 P56
- 34140 POWELL, D. Phygon XL for the control of peach blossom blight [Sclerotinia fructicola]. Plant Dis. Rptr. 35:76-77. Feb.15,1951. 1.9 P69P
- 34141 PRESLEY, J. T., and DICK, J. B. Fertilizer and weather affect Verticillium wilt. Miss. Farm Res. [Miss. Sta.] 14(2):1,6. Feb.1951. 100 M69Mi  
Of cotton.
- 34142 PUTNAM, H. O. Stem rust and approved South Dakota grain varieties. Grain & Feed Rev. 40(5): 14. Jan.1951. 280.28 G78
- 34143 RAPIN, J. Die prüfung der zur bekämpfung des stinkbrandes bestimmten beizmittel. Schweiz. Bauer 105(11):3. Jan.26,1951. 17 Sch95  
Tilletia tritici.
- 34144 REGISTRO epifitológico organizado por la División de Inmunología Vegetal del Instituto de Fitotecnia y consideraciones sobre los ataques de roya observados en los trigos en 1940. IDIA; Inform. de Invest. Agr. 3(35/36):27-31. Nov./Dec.1950. 9 Id3
- 34145 RIVEROS, J. E. El oidio de los manzanos. Chacra 21(240):36-37. Nov.1950. 9 C34
- 34146 ROSA, M. DE. Science impotent in the face of Endothia parasitica; chestnuts disappearing on the smiling slopes of Avellino. (In Italian.) Gior. di Agr. 60: 405. Dec.24,1950. 16 It1G
- 34147 RUI, D. Winter spraying of fruit plants. (In Italian.) Terra e Sole 101:23-24. Jan.1951. 16 T273  
For fungus and insect control.
- 34148 RUSSELL, R. C. The whole embryo method of testing barley for loose smut as a routine test. (Abs.) Canad. Phytopath. Soc. Proc. (1950)17:13. Jan.27,1951. 464.9 C162
- 34149 SCHLICHT, W. Improved techniques in chemical seed treatment. Purdue Agr. 42(5):14. Feb.1951. 6 P97
- 34150 SCHMID, G., JR. Die schorfbekämpfung im Staate New York. Schweiz. Z. f. Obst- u. Weinbau 60:39-44. Feb.10,1951. 80 Sch9  
On apples.
- 34151 SCHOLES, C. L., and HAWORTH, F. The application of crop protection methods. I-II. Ceylon. Tea Res. Inst. Tea Q. 21(4):22-28. Dec.1950. 68.18 C33  
I, Wet spraying, by C. L. Scholes; II, Dusting, by F. Haworth.
- 34152 SHIELDS, I. J. Oak wilt [Chalara quercina] in Kansas. Plant Dis. Rptr. 35:119. Feb.15,1951. 1.9 P69P
- 34153 SIMMONDS, P. M., SALLANS, B. J., and LEDINGHAM, R. J. The occurrence of Helminthosporium sativum in relation to primary infections in common root-rot of wheat. (Abs.) Canad. Phytopath. Soc. Proc. (1950) 17:14. Jan.27,1951. 464.9 C162
- 34154 SMITH, H. C. Collar-rot [Phytophthora cactorum] of apples and gooseberries. Orchardist New Zeal. 23(11):11,13-14. Dec.1950/Jan.1951. 80 Or19
- 34155 STRUBLE, F. B., and KEITT, G. W. Variability and inheritance in Glomerella cingulata (Stonem.) S. and V. S. from apple. Amer. J. Bot. 37:563-576. Ref. Oct.1950. 450 Am36
- 34156 SUMANOV, E. IA. To practice late-autumn sowing of spring wheat on each district seed farm. (In Russian.) Selek. i Semen. 17(10):51-52. Oct.1950. 61.9 Se5  
As a measure for loose smut control.
- 34157 TAMM, V. T. Canker resistant potato varieties in Estonian SSR. (In Russian.) Sad i Ogorod 1950(11):68-69. Nov.1950. 80 Sa13
- 34158 TAPKE, V. F. New physiologic races of Ustilago nigra from the United States and Israel. Phytopathology 41:139-141. Feb.1951. 464.8 P56
- 34159 TERRIER, C. La "tacheture" des fleurs d'azalees provoquée par le champignon Ovulinia azaleae Weiss; la présence de cette maladie en Suisse. Switz. Sta. Féd. d'Essais Vitic. Arbor. et de Chim. Agr. Montgibert, Lausanne. P. 390,4 p. Mar.1950. 105.5 Sw63
- 34160 TIFFANY, L. H. The anthracnose complex on soybeans. Iowa State Col. J. Sci. 25:371-372. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 34161 TOOLE, E. R. Bleeding canker [Phytophthora cactorum] of maple in North Carolina and Tennessee. Plant Dis. Rptr. 35:119. Feb.15,1951. 1.9 P69P
- 34162 TRINCHIERI, G. New hosts for Italy, of two foreign parasites. (In Italian.) Colt. e Gior. Vivic. Ital. 96:312-313. Nov.30,1950. 16 C72  
The fungus Endothia parasitica and the insect Gnorimoschema operculella.
- 34163 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Cottonseed treatment especially important this year, by J. T. Presley and R. J. Haskell. Washington, U. S. Ext. Serv., 1951. 4 p. 1.913 P3C82
- 34164 VILMORIN, M. DE, and MARTIN, P. Les échelles de notation de la rouille noire [Puccinia graminis] et les dégâts causés par celle-ci dans les blés en 1950. Acad. d'Agr. de France. Compt. Rend. 36:652-655. Nov.29/Dec.6,1950. 14 P215Bc
- 34165 WADE, G. C. White root rot of onions. Tasmania. Dept. Agr. Tasmanian J. Agr. 21:325-326. Nov. 1,1950. 23 T182T  
Caused by Sclerotium cepivorum.
- 34166 WAHL, I. Snapdragon rust (Puccinia antirrhini Diet. et Holway) in Palestine. Palestine J. Bot. Jerusalem Ser. 4:225-229. Ref. Mar.1949. 450 P17



34167 WALDRON, L. R. A plant breeder works with 15B. N. Dak. Agr. Expt. Sta. Bimon. B. 13:126-128. Jan./Feb. 1951. 100 N813B  
Form of wheat stem rust.

34169 WEIMER, J. L. Anthracnose [Glomerella cingulata] resistance in lupines. Plant Dis. Rptr. 35:80-81. Feb. 15, 1951. 1.9 P69P

34169 WEIMER, J. L. Ascochyta canker of blue lupine. Plant Dis. Rptr. 35:81-82. Feb. 15, 1951. 1.9 P69P

34170 WENZL, H. Untersuchungen über die Colletotrichumwelkekrankheit der kartoffel. I. Pflanzenschutzberichte 5:305-344. Ref. Nov. 1950. 464.9 P48  
English summary.

34171 WILSON, R. D. Anthracnose of French beans. Agr. Gaz. N. S. Wales 61:647-650. Dec. 1, 1950. 23 N472  
Caused by the fungus Colletotrichum lindemuthianum.

34172 WINGARD, S. A., and HENDERSON, R. G. New fungicides for tomato late blight control. (Abs.) Va. J. Sci. (n.s.) 1:331. Sept. 1950. 470 V81

34173 WINKELMANN, A. Die krautfäule [Phytophthora infestans] der kartoffeln. Gesunde Pflanzen 2:133-134, 136. June 1950. 464.8 G33

34174 WOODHEAD, C. E. Ripe-spot [Neofabraea malicorticis] of apples. Orchardist New Zeal. 23(11):7, 9. Dec. 1950/Jan. 1951. 80 Or19

34175 YARWOOD, C. E. Defoliation by a rain-favored, a dew-favored, and a shade-favored disease. Phytopathology 41:194-195. Feb. 1951. 464.8 P56  
Podosphaera tridactyla, apricot powdery mildew.

34176 ZÄCH, C., KUNDERT, J., and BIERI, F. Schorfbekämpfungsversuche mit nebelblaser im jahre 1950. Schweiz. Z. f. Obst- u. Weinbau 60:59-67. Feb. 24, 1951. 80 Sch9  
Apples.

#### Diseases Caused by Bacteria

34177 ARK, P. A., and STARR, M. P. Bacterial diseases of Cyripediums and Miltonias. Orchid Digest 15:16-17. Jan./Feb. 1951. 80 Or172

34179 GARRISS, H. R. Wildfire and bluemold—you can't cure, you can prevent. Prog. Farmer, Carolinas-Va. Ed. 66(3):19, 146, 149. Mar. 1951. 6 P945  
Protecting tobacco plantbeds.

34179 HUTTON, K. E. Crown gall of plants. N. S. Wales. Dept. Agr. Plant Dis. L. 17, 4. 1950. 464.9 N47

34180 KELMAN, A., and JENSEN, J. H. Maintaining virulence in isolates of Pseudomonas solanacearum. Phytopathology 41:185-187. Feb. 1951. 464.8 P56

34181 LANSADÉ, M. Recherches sur le flétrissement bactérien de la pomme de terre. Rev. Agr. de l'Afrique du Nord 48:945-947. Dec. 22, 1950. 80 R326  
Corynebacterium sepedonicum.

34182 LIMA, A. D. F. Serious cassava disease. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:167-168. July/Dec. 1950. 9.2 R325  
Bacterial.

34183 LOUW, A. J. Method of controlling bacterial canker. (Sum.) Food Indus. So. Africa 3(8):31. Dec. 1950. 389.8 F7372  
Apricots and plums.

34184 MEZZETTI, A. The 'bacterial spotting' of tomatoes produced by Pseudomonas tomato (Okabe) Breed and al. (In Italian.) Ann. della Sper. Agr. (n.s.) 5:95-110. Ref. 1951. 16 An76  
English summary.

34185 MEZZETTI, A. Basal rot of the calla lily produced by Bacterium aroideae (Town.) Stapp in Italy. (In Italian.) Ann. della Sper. Agr. (n.s.) 5:207-220. Ref. 1951. 16 An76  
English summary.

34186 NEW SCUTH WALES. DEPT. OF AGRICULTURE. BIOLOGICAL BR. DIV. OF SCIENCE SERV. Bacterial blight of peas. N. S. Wales. Dept. Agr. Plant Dis. L. 69, 2 p. 1950. 464.9 N47  
Caused by Pseudomonas pisi.

34187 SHNEIDER, IÜ. I. On dates of spraying [with Bordeaux mixture] citrus crops against bacterial necrosis. (In Russian.) Sad i Ogorod 1950(11):43-45. Nov. 1950. 80 Sa13

#### Viruses and Virus Diseases

34189 BAWDEN, F. C., and NIXON, H. L. The application of electron microscopy to the study of plant viruses in unpurified plant extracts. J. Gen. Microbiol. 5:104-109. Ref. Feb. 1951. 448.3 J823

34189 BENDA, G. T. A. Masking and recovery in the ringspot No. 1 virus disease of Turkish tobacco. (Abs.) Amer. J. Bot. 37:676. Oct. 1950. 450 Am36

34190 BERKELEY, G. H. Mild rugose mosaic of sweet cherry. (Abs.) Canad. Phytopath. Soc. Proc. (1950) 17:9-10. Jan. 27, 1951. 464.9 C162

34191 BEWLEY, W. F., and RICHARDS, A. A. Mosaic disease of the Chrysanthemum. Gard. Chron. 129:20. Jan. 20, 1951. 80 G162

34192 BRIERLEY, P., and SMITH, F. F. Chrysanthemum stunt. Florists' Rev. 107(2778):27-30. Ref. Feb. 22, 1951. 80 W41

Also in South. Florist & Nurseryman 63(49):9-11, 96-99. Ref. Mar. 2, 1951. 80 So86

34193 COSTA, A. S., and GRANT, T. J. Studies on transmission of the tristeza virus by the vector, Aphis citricidus. Phytopathology 41:105-113. Ref. Feb. 1951. 464.8 P56

34194 COURANJOU, A. Echec à la psorose. Fruits et Primeurs de l'Afrique du Nord 21(221):2-5. Jan. 1951. 80 F9482

On oranges.

34195 DAINES, R. H., and SORACI, F. The X disease of stone fruits now in New Jersey. N. J. State Hort. Soc. Hort. News 32:2321-2323, 2328-2329, 2338. Jan. 1951. 81 N46

34196 DICKSON, R. C., FLOCK, R. A., and JOHNSON, M. M. Identify quick decline virus vector. Citrus Leaves 31(2):6-7, 32. Feb. 1951. 80 C492  
Aphis gossypii.

34197 FERGUSON, I. A. C. Four virus diseases of solanaceous plants in Trinidad. Plant Dis. Rptr. 35:102-105. Feb. 15, 1951. 1.9 P69P

34199 FINK, H. C. Detection of necrotic ring spot virus and its occurrence and spread in sour cherry nurseries. Iowa State Col. J. Sci. 25:211-213. Jan. 1951. 470 Io9

Abstract of thesis (Ph. D.).

34199 GÓMEZ CLEMENTE, F. Un virus en los naranjos y limoneros. Agricultura [Madrid] 20(225):2-5. Jan. 1951. 15 Ag84

34200 GRANT, T. J., and COSTA, A. S. A mild strain of the tristeza virus of citrus. Phytopathology 41:114-122. Ref. Feb. 1951. 464.8 P56

34201 HAHMANN, K., and MÜLLER, H. Viruskrankheiten der tomaten. Gesunde Pflanzen 2:273-278. Nov. 1950. 464.8 G33

34202 HEILING, A. Richtlinien für den rübensamenanbau in den von der vergilbungskrankheit bedrohten gebieten. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:241. Feb. 15, 1951. 18 L2346  
Fodder and sugar beets.

34203 JOHNS, R., and GIBBERD, A. V. An assessment of swollen shoot disease in Nigeria. Cocoa, Choc. & Confectionery Alliance. Rpt. Conf. Cocoa 1950:14-17. 68.39 In82

34204 KNORR, L. C., and DUCHARME, E. P. The relationship between Argentina's lepra explosiva and Florida's scaly bark, with implications for the Florida citrus grower. Plant Dis. Rptr. 35:70-75. Feb. 15, 1951. 1.9 P69P

34205 KNORR, L. C., and DUCHARME, E. P. This is tristeza—ravager of Argentina's citrus industry. Citrus Mag. 13(6):17-19. Feb. 1951. 80 C498

34206 LAMOUR, R. Viroses des agrumes en Afrique du Nord. Fruits et Primeurs de l'Afrique du Nord. Ed. Marocaine 20:381-384. Dec. 1950. 80 F9482  
Also in Colon Franç. de Tunisie 44(2181):4. Jan. 20, 1951. 24 C712

34207 LINTON, R. D. Swollen shoot control in other areas and rehabilitation progress in general. Cocoa, Choc. & Confectionery Alliance. Rpt. Conf. Cocoa 1950:11-14. 68.39 In82

34209 MACDONALD-SMITH, S. The swollen shoot campaign in the Gold Coast. Cocoa, Choc. & Confectionery Alliance. Rpt. Conf. Cocoa 1950:6-8. 68.39 In82

34209 MCWHORTER, F. P. Suggestions for transferring virus from local lesions to test plants. Phytopathology 41:185. Feb. 1951. 464.8 P56

34210 MARCHIONATTO, J. B. El vivero como fuente de propagación de enfermedades de virus. Rev. Argentina de Agron. 17:249-251. Dec. 1950. 9 R327

34211 MELLOR, F. C., and FITZPATRICK, R. E. Strawberry virus in British Columbia. (Abs.) Canad. Phytopath. Soc. Proc. (1950) 17:12. Jan. 27, 1951. 464.9 C162



- 34212 MENEGHINI, M., and DELWICHE, C. C. The multiplication of tobacco mosaic virus in the host tobacco plant. *J. Biol. Chem.* 189(1):177-186. Ref. Mar.1951. 381 J824
- 34213 MILLER, P. W. An eastern Oregon *Fragaria vesca* suitable as an indicator for some strawberry virus diseases. *Plant Dis. Rptr.* 35:61-62. Feb.15,1951. 1.9 P69P
- 34214 NICKELL, L. G., and BRAKKE, M. K. An extracellular amylase from *Rumex* virus tumors grown in vitro. (Abs.) *Amer. J. Bot.* 37:681. Oct.1950. 450 Am36
- 34215 PRENTICE, I. W. *Rubus* stunt: a virus disease. *J. Hort. Sci.* 26:35-42. Dec.1950. 80 J825
- 34216 RÖNNEBECK, W. Hinter den kulissen des kartoffelabbaues. *Deut. Landwirt. Presse* 74:4. Jan.6, 1951. 18 D482
- 34217 RUI, D. Witches broom virus of apple. (In Italian.) *Humus* 6(11):7-10. Nov.1950. 16 H88
- 34218 RYZHKOV, V. L., TARASEVICH, L. M., and LOIDNA, G. I. On the action of strong sodium nucleate solutions on the virus of tobacco mosaic disease and albumin. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:1023-1024. Oct.11,1950. 511 P444A
- 34219 SCHUPHAN, W. Ein beitrag zum N-haushalt gesunder und viruskranker kartoffelknollen unter besonderer berücksichtigung des gehaltes an exogenen aminosäuren. *Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz* 57:321-327. Ref. Sept./Oct.1950. 464.8 Z3
- 34220 SHIELDS, I. J. A survey of phloem necrosis in Lawrence, Kansas. *Kans. Acad. Sci. Trans.* 53:473-476. Dec.1950. 500 K13T  
On *Ulmus americana*.
- 34221 SKILLMAN, E. E. Chrysanth virus needs roguing. *Grower [London]* 35:65-66. Jan.13,1951. 286.83 M34
- 34222 SLEETH, B. Witches' broom of alfalfa in the Southwest. *Plant Dis. Rptr.* 35:77-79. Feb.15,1951. 1.9 P69P
- 34223 SMITH, F. F., and BRIERLEY, P. Aster yellows in Canna. *Phytopathology* 41:190-191. Feb.1951. 464.8 P56
- 34224 STAHMANN, M. A., and others. The inhibition of tobacco mosaic virus by synthetic lysine polypeptides. *J. Biol. Chem.* 189(1):45-52. Ref. Mar.1951. 381 J824  
L. H. Graf, E. L. Patterson, J. C. Walker, and D. W. Watson, joint authors.
- 34225 STONER, W. N. An aphid-transmitted virus disease of Fuller's teasel [*Dipsacus fullonum*] and pin-cushion flower [*Scabiosa atropurpurea*]. *Phytopathology* 41:191-194. Feb.1951. 464.8 P56  
Marmor *dipsacum*, n. sp.
- 34226 TAKAHASHI, W. N. Ultraviolet absorption as a measure of tobacco-mosaic virus nucleoprotein. *Phytopathology* 41:142-145. Feb.1951. 464.8 P56
- 34227 THUNG, T. H., and HADIWIDJAJA, T. Virus transmission by *Cuscuta australis* R. Br., I. (In Dutch.) *Tijdschr. over Plantenziekten* 56:349-351. Sept./Dec. 1950. 464.8 T44
- 34228 WALLACE, J. M., and DRAKE, R. J. Newly discovered symptoms of quick decline and related diseases. *Citrus Leaves* 31(2):8-9,30. Ref. Feb.1951. 80 C492
- 34229 WELSH, M. F., and WILKS, J. M. Induced modification of symptom severity in little cherry. *Phytopathology* 41:136-138. Feb.1951. 464.8 P56
- Diseases Caused by Nematodes
- 34230 ANDREWS, F. S. Resistance of lima beans to nematodes at Walkerton, Va., 1949. (Abs.) *Va. J. Sci.* (n.s.):1:332. Sept.1950. 470 V81
- 34231 BINGEFORS, S. The clover stem eelworm [*Ditylenchus dipsaci*] and its control by resistance breeding. (In Swedish.) *Lantbrakad. Tidskr.* 89:420-434. Ref. 1950. 104 Sw3  
English summary.
- 34232 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Beet eelworm [*Heterodera schachtli*]. *Gt. Brit. Min. Agr. & Fisheries. Adv. L.* 233,6 p. Nov. 1950. 10 G79La
- 34233 HENDERSON, R. G. Stem nematode—the cause of a new alfalfa disease in Virginia. (Abs.) *Va. J. Sci.* (n.s.):1:333. Sept.1950. 470 V81
- 34234 KOTTHOFF, P. Die verbreitung von *Ditylenchus dipsaci* (Kühn) als schädling an landwirtschaftlichen kulturpflanzen in Westfalen. *Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz* 57:4-14. Jan./Feb. 1950. 464.8 Z3
- 34235 OPSTAL, W. J. Results from spraying with parathion. (In Dutch.) *Vakbl. v. de Bloemisterij* 6:6. Jan. 3,1951. 80 V22  
Control of nematodes on Chrysanthemums.
- 34236 PETERS, B. G. The term 'eelworm-free soil' in plant quarantine regulations. *Nature [London]* 167:368. Mar.3,1951. 472 N21
- 34237 RADEMACHER, B. Auftreten und bekämpfung des weizenälchens (*Anguina tritici* Steinb.) beim dinkel (*Triticum spelta*) im zusammenhang mit der federbuschsporenkrankheit (*Dilophospora graminis* Desm.) und einer bakteriose. *Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz* 57:334-343. Sept./Oct.1950. 464.8 Z3
- 34238 RASKI, D. J., ALLEN, M. W., and MCCALLUM, R. D. Sugar-beet nematode; chemical control trials test two methods of applying soil fumigants. *Calif. Agr. [Calif. Sta.]* 5(2):6,15. Feb.1951. 100 C12Cag
- 34239 SEINHORST, J. W. Soil conditions and stem eelworm disease. (In Dutch.) *Tijdschr. over Plantenziekten* 56:289-348. Ref. Sept./Dec.1950. 464.8 T44  
English summary.
- 34240 SMITH, O. F. Biologic races of *Ditylenchus dipsaci* on alfalfa. *Phytopathology* 41:189-190. Feb.1951. 464.8 P56
- 34241 TAYLOR, A. L., and CHITWOOD, B. G. Root knot susceptibility of *Lycopersicon peruvianum*. *Plant Dis. Rptr.* 35:97. Feb.15,1951. 1.9 P69P
- 34242 THOMAS, C. A., and MITCHELL, G. H. Eelworms (nematodes) as pests of mushrooms. *MGA Bulletin* 22:61-71. Jan.1951. 80 M97
- ECOLOGY
- 34243 BIEBL, R. Ökologie und zellforschung. *Ver. z. Verbr. Natwiss. Kenntnisse in Wien. Schr.* 86/89:66-84. 1945/46-1948/49, pub.1950. 510 V672  
Plants.
- 34244 BLACKMAN, G. E., and WILSON, G. L. Physiological and ecological studies in the analysis of plant environment. VI. *Ann. Bot. (n.s.)* 15:63-94. Ref. Jan. 1951. 450 An7
- 34245 CANDIOLI, P. Consociation of species and varieties in fruit culture. (In Italian.) *Informatore Agr.* 6(23):4. Dec.15,1950. 281.8 In32
- 34246 COTTA, A. Silviculture is basically sociological. *Trees & New Earth* 14:125-126. Winter 1950/51. 99.8 T714  
Forest ecology.
- 34247 GYORFFY, I. De successione muscorum in bombacrateribus apud Salzburg crescentium. — Über die an bombentrichterlehnen angestiedelten mooserstlinge bei Salzburg. *Soc. pro Fauna et Flora Fenn. Memo.* (1948-49) 25:107-114. 1950. 511 H365Me
- 34248 HOPKINS, D. M., and SIGAFOOS, R. S. Frost action and vegetation patterns on Seward Peninsula Alaska. *U. S. Geol. Surv. Geol. Surv. B.* 974-C, 100 p. Ref. 1951. 407 G29B
- 34249 JALAS, J. Zur kausalanalyse der verbreitung einiger nordischen os- und sandpflanzen. *Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon Kasvitiet. Julkaisu.* 24(1), 362 p. Ref. 1950. 451 Su7
- 34250 KNAPP, R. Wald und steppe im östlichen Nieder-Osterreich. *Biol. Zentbl.* 70:85-91. Ref. 1951. 442.8 B523  
Ecological study.
- 34251 MCMINN, R. G. The vegetation of a burn near Blaney Lake, British Columbia. *Ecology* 32:135-140. Jan.1951. 410 Ec7
- 34252 MADORE, M. R. B. An ecological study of the genus *Carex* in eastern subarctic Canada. *Torrey Bot. Club. B.* 78:44-50. Ref. Jan./Feb.1951. 451 T63B
- 34253 MARCUZZI, G. Contribución al estudio de la ecología del medio xerófilo venezolano. *Acta Cient. Venezol.* 1:94-104. Ref. Sept./Oct.1950. 475 Ac83  
English summary.  
Includes plant ecology.
- 34254 OOSTING, H. J., and BILLINGS, W. D. A comparison of virgin spruce-fir forest in the northern and southern Appalachian system. *Ecology* 32:84-103. Ref. Jan.1951. 410 Ec7
- 34255 PIEMEISEL, R. L. Causes affecting change and rate of change in a vegetation of annuals in Idaho. *Ecology* 32:53-72. Ref. Jan.1951. 410 Ec7
- 34256 RIGG, G. B. The development of Sphagnum bogs in North America. II. *Bot. Rev.* 17:109-131. Ref. Feb.1951. 450 B6527



- 34257 SAPPA, F., and CHARRIER, G. Essay on the vegetation of Sangone Valley (Cottian Alps). (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:106-187. 1949. 450 N92 English summary.
- 34258 SHARP, A. J., and others. Nota florística de una asociación importante del suroeste de Tamaulipas, México. I. *Soc. Bot. de Méx. B.* 11:1-4. Dec.1950. 451 Sol25
- E. Hernández Xolocotzi, H. Crum, and W. B. Fox, joint authors.
- 34259 STERN, W. L., and BUELL, M. F. Life-form spectra of New Jersey pine barrens forest and Minnesota jack pine forest. *Torrey Bot. Club. B.* 78:61-65. Ref. Jan./Feb.1951. 451 T63B
- Pinus rigida*, *P. echinata*, and *P. banksiana*.
- 34260 SUKACHEV, V. N., ed. *Rastenii i sreda* [Plant and environment]. Moskva, Akademiia Nauk SSSR, 1950. 199 p. (Institut Lesa. Laboratorii Evoliutsionnoi Ekologii Rastenii im. Akademika B. A. Kellera. Trudy, v. 2) 451 Ak13
- 34261 VIROT, R. L'évolution des marais dans la région parisienne. *Feuille des Nat.* (n.s.)5:81-86. Nov./Dec.1950. 410 F432
- 34262 VOIGT, J. W., and WEAVER, J. E. Range condition classes of native midwestern pasture: an ecological analysis. *Ecol. Monog.* 21:39-60. Ref. Jan.1951. 410 Ec72
- 34263 WATT, A. S. Contributions to the ecology of bracken (*Pteridium aquilinum*). V. Bracken and frost. *New Phytol.* 49:308-327. Nov.1950. 450 N42
- 34264 WEAVER, H. Fire as an ecological factor in the southwestern ponderosa pine forests. *J. Forestry* 49: 93-98. Ref. Feb.1951. 99.8 F768
- 34265 WHITTAKER, R. H. A criticism of the plant association and climatic climax concepts. *Nowest. Sci.* 25:17-31. Ref. Feb.1951. 470 N81
- 34266 ZOHARY, M., and ORSHANSKY, G. Structure and ecology of the vegetation in the Dead Sea region of Palestine. *Palestine J. Bot. Jerusalem Ser.* 4:177-206. Ref. Mar.1949. 450 P17
- ### MORPHOLOGY, ANATOMY, AND CYTOLOGY
- 34267 AMICO, A. Development of the female gametophyte in *Scrophularia lucida* L. var. *filicifolia* Mill. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:284. 1949. 450 N92
- 34268 ASHBY, E. Studies in the morphogenesis of leaves. VI. Some effects of length of day upon leaf shape in *Ipomoea caerulea*. *New Phytol.* 49:375-387. Ref. Nov.1950. 450 N42
- 34269 BAKSHI, B. K. Development of perithecia and reproductive structures in two species of *Ceratocystis*. *Ann. Bot.* (n.s.)15:53-61. Jan.1951. 450 An7
- 34270 BALDWIN, J. T., JR. Cyto geography of *Strophanthus* in West Africa. (Abs.) *Amer. J. Bot.* 37:660. Oct.1950. 450 Am36
- 34271 BALDWIN, J. T., JR., and SPEESE, B. M. *Tacca involucreta*: its chromosomes. *Torrey Bot. Club. B.* 78:70-72. Jan./Feb.1951. 451 T63B
- 34272 BALL, E. Experimental dividing of a shoot apex. (Abs.) *Amer. J. Bot.* 37:660. Oct.1950. 450 Am36
- In lupine.
- 34273 BARTON, D. W. Pachytene morphology of the tomato chromosome complement. *Amer. J. Bot.* 37:639-643. Ref. Oct.1950. 450 Am36
- 34274 BECK, E. G. The biology and histology of the petiole gall on *Celtis* induced by the larvae of the insect *Pachypsylla venusta*. (Abs.) *Amer. J. Bot.* 37:660-661. Oct.1950. 450 Am36
- 34275 BIEBL, R., and GERM, H. *Praktikum der pflanzenanatomie*. Wien, Springer-Verlag, 1950. 220 p. 463.41 B47
- 34276 BOKE, N. H. Problems of vascular ontogeny in *Echinocereus reichenbachii*. (Abs.) *Amer. J. Bot.* 37: 661. Oct.1950. 450 Am36
- 34277 BRITTON, D. M. Cytogenetic studies on the Boraginaceae. (Abs.) *Va. J. Sci.* (n.s.)1:351. Sept.1950. 470 V81
- 34278 BROWN, H. S., and ADDICOTT, F. T. The anatomy of experimental leaflet abscission in *Phaseolus vulgaris*. *Amer. J. Bot.* 37:650-656. Ref. Oct.1950. 450 Am36
- 34279 BROWN, W. V. Apometosis in *Zephyranthes texana*. (Abs.) *Amer. J. Bot.* 37:661. Oct.1950. 450 Am36
- 34280 BROWN, W. V., PONEWCZYNSKI, H. J., and SCARBOROUGH, H. H., JR. A cytological study of *Tradescantia reverchonii* Bush. *Torrey Bot. Club. B.* 78: 66-69. Jan./Feb.1951. 451 T63B
- 34281 CÁCERES, M. R. Los caracteres anatómicos foliares de *Munroa mendocina* y *Blepharidachne benthiana*. *Rev. Argentina de Agron.* 17:233-240. Ref. Dec. 1950. 9 R327
- 34282 CAMEFORT, H. Variations phyllotaxiques chez les plantules de quelques espèces de Cypres. *Acad. des Sci. Compt. Rend.* 232:174-176. Jan.8,1951. 505 P21
- 34283 CANRIGHT, J. E. Carpel morphology in the Magnoliaceae. (Abs.) *Amer. J. Bot.* 37:661. Oct.1950. 450 Am36
- 34284 CHEN, S. M., and LI, L. Y. Differentiation of the flower-bud of tung trees in Foochow. (In Chinese.) *Fukien Agr. J.* 11:161-167. June 1950. 22.5 F95 English summary.
- 34285 CRÉTÉ, P. Embryogénie des Papilionacées. Développement de l'embryon chez le *Colutea arborescens* L. *Acad. des Sci. Compt. Rend.* 232:176-178. Jan.8,1951. 505 P21
- 34286 CUZIN, J., SCHWARTZ, D., and FARDY, A. Origine et croissance de l'ébauche foliaire chez *Nicotiana tabacum* L. *Acad. des Sci. Compt. Rend.* 232:100-102. Jan.3,1951. 505 P21
- 34287 DATTA, R. M. Occurrence of a hermaphrodite flower in *Arceuthobium minutissimum* Hook. f., the smallest known dicotyledonous plant. *Nature* [London] 167:203-204. Feb.3,1951. 472 N21
- 34288 DAY, G. M. Red spruce [*Picea rubens*] leaves. *Torrey Bot. Club. B.* 78:88. Jan./Feb.1951. 451 T63B
- 34289 DUCHAIGNE, A. L'ontogénie du phloème intraxylemien dans la tige de *Lebrunia bushaie* Staner (Guttifères). *Acad. des Sci. Compt. Rend.* 232:646-648. Feb.12,1951. 505 P21
- 34290 EIGSTI, O. J. Chromosomes of triploid *Polygonatum multiflorum*. (Abs.) *Amer. J. Bot.* 37:661-662. Oct.1950. 450 Am36
- 34291 ELLIOT, E. A new phase of amphiplasty in *Leontodon*. *New Phytol.* 49:344-349. Ref. Nov.1950. 450 N42
- 34292 FAIRBAIRN, J. W., and LOU, T. C. A note on the anatomy of *Dichroa febrifuga* Lour. (Hydrangeaceae). *New Phytol.* 49:304-307. Nov.1950. 450 N42
- 34293 FOGG, G. E. Growth and heterocyst production in *Anabaena cylindrica* Lemm. III. *Ann. Bot.* (n.s.)15: 23-35. Ref. Jan.1951. 450 An7
- 34294 GARBBER, E. D. Chromosome orientation in rings of four chromosomes at metaphase I in species of *Para-Sorghum*, genus *Sorghum*. (Abs.) *Amer. J. Bot.* 37: 662. Oct.1950. 450 Am36
- 34295 GAVAUDAN, P., and DEBRAUX, G. La fleur du *Lilium candidum* L. et la théorie de la métamorphose foliaire: observations et recherches expérimentales. *Acad. des Sci. Compt. Rend.* 231:1542-1544. Dec.18,1950. 505 P21
- 34296 GAVAUDAN, P., and DEBRAUX, G. L'unité du plan de composition foliaire et floral chez les *Rosa* et les théories de la fleur. *Acad. des Sci. Compt. Rend.* 232 430-431. Jan.29,1951. 505 P21
- 34297 GAYATONDE, N. S., CHATTERJEE, K. C., and KHORANA, M. L. Pharmacognostic studies of *Symplocos racemosa*, Roxb., and *S. baddomei*, C. B. Clarke. *Indian J. Pharm.* 12:290-300. Ref. Oct.1950. 396.8 In23 Detailed information on morphology.
- 34298 GIFFORD, E. M., JR. The structure and development of the shoot apex in certain woody Ranales. *Amer. J. Bot.* 37:595-611. Ref. Oct.1950. 450 Am36
- 34299 GLOCK, W. S. Cambial frost injuries and multiple growth layers at Lubbock, Texas. *Ecology* 32: 28-36. Ref. Jan.1951. 410 Ec7
- 34300 GORDUNOVA, N. P. Observations on the cytology and developmental history of some blue-green algae [Gloeotrichia]. (In Russian.) *Moskov. Obshch. Isp. Prirody. Otd. Biol.* B. (n.s.)75(3):70-85. Ref. 1950. 511 M85
- 34301 GOVINDU, H. C. Studies in the embryology of some members of the Bignoniaceae. *Indian Acad. Sci. Proc. Sect. B* 32:164-178. Ref. Oct.1950. 513 In25B
- 34302 HALL, B. A. The nature of the floral disk in the Aceraceae and some related families. (Abs.) *Amer. J. Bot.* 37:662. Oct.1950. 450 Am36
- 34303 HALL, J. W. The comparative anatomy of the Betulaceae. (Abs.) *Amer. J. Bot.* 37:662. Oct.1950. 450 Am36



- 34304 HAMANT, C. Observations sur les "masses chromatiques" signalées dans le cytoplasme de l'oosphère des Mniun. Acad. des Sci. Compt. Rend. 232: 648-650. Feb.12,1951. 505 P21
- 34305 HODGE, A. J., and WARDROP, A. B. An electron microscopic investigation of the cell wall organization of conifer tracheids and conifer cambium. Austral. J. Sci. Res. Ser. B: Biol. Sci. 3:265-269. Ref. Aug.1950. 442.8 Au72
- 34306 HURST, F. The stem endodermis of the genus *Smilax* in central Texas. (Abs.) Amer. J. Bot. 37:663. Oct.1950. 450 Am36
- 34307 KAEISER, M. Wood anatomy of *Podocarps*. (Abs.) Amer. J. Bot. 37:663. Oct.1950. 450 Am36
- 34308 KAMEL, M. Studies on the development of the boll, and the formation of oil in the developing seed in some varieties of Egyptian cotton. Nature [London] 167: 357. Mar.3,1951. 472 N21
- 34309 KONOVALOV, I. N. On the morphology of fruits of the berry type. (In Russian.) Bot. Zhur. 35:367-373. Ref. July/Aug.1950. 451 R923
- 34310 KNOBLOCH, I. W. Tetraploid brome grass. (Abs.) Amer. J. Bot. 37:663-664. Oct.1950. 450 Am36
- 34311 KOZO-POLJANSKIĬ, B. M. Origin of the blossom and type of flowering plants. (In Russian.) Moskov. Obshch. Isp. Prirody. Otd. Biol. B. (n.s.)75(4): 41-50. Ref. 1950. 511 M85
- 34312 KRASOVSKAĬA, I. V. Regularities of structure of the root system in cereals. (In Russian.) Bot. Zhur. 35:374-384. Ref. July/Aug.1950. 451 R923
- 34313 KRECHETOVICH, L. M. The blossom of angiospermous plants. (In Russian.) Moskov. Obshch. Isp. Prirody. Otd. Biol. B. (n.s.)75(4):28-40. Ref. 1950. 511 M85
- Morphology.
- 34314 LAMARDELLE, P. Les relations entre le nucléole et les chromosomes au cours du ralentissement de la prophase provoqué expérimentalement par quelques agents chimiques. Acad. des Sci. Compt. Rend. 231:1540-1542. Dec.18,1950. 505 P21
- In wheat.
- 34315 LEROY, J. F. Contre la théorie généralisée des carpellesporophylles. I. Une structure singulière d'axe invaginé et de placentation caulinaire chez *Annamosyria* A. Chev. (Juglandaceae). Acad. des Sci. Compt. Rend. 232:432-434. Jan.29,1951. 505 P21
- 34316 LEVINE, M. Bacteria-free plant tumor tissue compared cytologically with tissues influenced by chemical carcinogens grown in vitro. (Abs.) Amer. J. Bot. 37: 664. Oct.1950. 450 Am36
- 34317 LI, L. Y., and CHOU, C. Y. A note on the Chen-tze lychee of Hinghwa, Fukien. (In Chinese.) Fukien Agr. J. 11:189-192. June 1950. 22.5 F95
- English summary.
- Morphology.
- 34318 LIER, F. G. A comparison of the three-dimensional shapes of cork cambium and cork cells in the stem of *Pelargonium*. (Abs.) Amer. J. Bot. 37:664-665. Oct.1950. 450 Am36
- 34319 LOEVEN, W. A. Accumulation of cytoplasm in *Allium* cells as a consequence of exposure to organic substances. I. Nederland. Akad. van Wetensch. Proc. 53: 1599-1609. Dec.1950. 503 Am8P
- 34320 LOMMASSON, R. C. Leaf venation of *Phragmites communis*. (Abs.) Amer. J. Bot. 37:665. Oct. 1950. 450 Am36
- 34321 LORITO, F. Development of male flowers in the caprifig. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.) 56:285-287. 1949. 450 N92
- 34322 LOVE, R. M. Varietal differences in meiotic chromosome behavior of Brazilian wheats. Agron. J. 43: 72-76. Feb.1951. 4 Am34P
- 34323 LOVELL, H. B. The mechanics of pollination. 2. Nectaries and nectar secretion in some common honey plants. Bees 4:114-116. Nov.1950. 424.8 So83
- 34324 MATZKE, E. B. Cellular configurations in plant meristems. (Abs.) Amer. J. Bot. 37:665. Oct. 1950. 450 Am36
- 34325 MEHRA, P. N., and CHOPRA, N. The anatomy of *Stenochlaena palustris* (Bur.) Bedd. Ann. Bot. (n.s.) 15:35-45. Jan.1951. 450 Am7
- 34326 MESSERI, A. The organizers in plants. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:1-20. 1949. 450 N92
- English summary.
- 34327 MÖBUS, W. Der flugplatz am halm. Nat. u. Nahr. 4(21/22):12-13. Nov.1950. 80 N218
- Typha latifolia*.
- 34328 NEAL, M. C. Common and aberrant flowers of *Cassia fistula*. Pacific Sci. 5:82-89. Ref. Jan.1951. 475 P11
- 34329 NEWCOMER, E. H. Mitochondria in plants. II. Bot. Rev. 17:53-89. Ref. Feb.1951. 450 B6527
- 34330 OWNBEY, G. B. On the cytotoxonomy of the genus *Corydalis*, section *Eucorydalis*. Amer. Midland Nat. 45:184-186. Jan.1951. 410 M58
- 34331 PAGE, V. M. Morphology of the spikelet of *Streptochaeta*. Torrey Bot. Club. B. 78:22-37. Ref. Jan./Feb.1951. 451 T63B
- 34332 POWERS, E., and GUARD, A. T. A study of the primary tissues of the apple root. (Abs.) Amer. J. Bot. 37:666. Oct.1950. 450 Am36
- 34333 RAPER, K. B., and FENNELL, D. I. Heterothallism in *Penicillium luteum*—true or false? (Abs.) Amer. J. Bot. 37:669-670. Oct.1950. 450 Am36
- 34334 RAPPAPORT, J. A comparison of effects of nucleic acids and extracts of ovular tumors on the development of *Datura* embryos. (Abs.) Amer. J. Bot. 37:682. Oct.1950. 450 Am36
- 34335 SAINCLIVIER. Morphologie, croissance et activité enzymatique de quelques *Aspergillus*. Soc. Sci. de Bretagne. B. (Sci. Math. Phys. et Nat.) 24:35-46. 1949, pub.1950. 505 R292
- 34336 SARFATTI, G. Supposed hermaphroditism of some individuals of *Ruscus aculeatus* L. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:287-288. 1949. 450 N92
- 34337 SATINA, S., RAPPAPORT, J., and BLAKESLEE, A. F. Ovular tumors connected with incompatible crosses in *Datura*. Amer. J. Bot. 37:576-586. Ref. Oct.1950. 450 Am36
- 34338 SCARAMUZZI, F. Presence of fruit on male plants of *Rhamnus alaternus*. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:284-285. 1949. 450 N92
- 34339 SCHWANTES, G. The Lithopinae. Natl. Cactus & Succulent J. 5:58-60. (To be cont.) Dec.1950. 450 N21
- A morphological study.
- 34340 SEMPIO, C., and CASTORI, M. On the germinability of the conidia of *Oidium moniloides* Link. (In Italian.) Riv. di Biol. 42:287-293. July/Sept.1950. 442.8 R52
- English summary.
- 34341 SHIELDS, L. M. The condition of bulliform cells, where present, in rolled leaves of certain grasses. (Abs.) Amer. J. Bot. 37:667. Oct.1950. 450 Am36
- 34342 SINOIR, Y. Évolution de la structure nucléaire au cours de la spermatogenèse chez *Marchantia polymorpha* L. Acad. des Sci. Compt. Rend. 231:1539-1540. Dec.18, 1950. 505 P21
- 34343 SMIRNOV, L. A. Phyllotactic spiral and problem of dissymmetry. (In Russian.) Bot. Zhur. 35:394-398. Ref. July/Aug.1950. 451 R923
- 34344 SMITH, L. Cytology and genetics of barley. Bot. Rev. 17:1-51. (To be cont.) Jan.1951. 450 B6527
- 34345 SNOW, R. Plagiotropism, inhibition and anisophylly. New Phytol. 49:350-352. Nov.1950. 450 N42
- Experiment with *Salvia coccinea*.
- 34346 SNYDER, L. A. Morphological variability and hybrid development in *Elymus glaucus*. Amer. J. Bot. 37: 628-636. Ref. Oct.1950. 450 Am36
- 34347 SOUÉGES, R. Embryogénie des Papilionacées. L'embryon et le suspenseur chez l'*Anthyllis vulneraria* L. Acad. des Sci. Compt. Rend. 232:581-584. Feb.12, 1951. 505 P21
- 34348 SPEESE, B. M., and BALDWIN, J. T., JR. Chromosomes of *Liberian Amaryllidaceae*. (Abs.) Amer. J. Bot. 37:667. Oct.1950. 450 Am36
- 34349 STEIL, W. N. Apogamy, apospory and parthenogenesis in the Pteridophytes. II. Bot. Rev. 17:90-104. Ref. Feb.1951. 450 B6527
- 34350 VAZART, B. Structure des noyaux du sac embryonnaire chez trois espèces de Graminées: *Triticum monococcum*, L., *Hordeum vulgare* L. et *Secale cereale* L. Acad. des Sci. Compt. Rend. 232:178-180. Jan.8,1951. 505 P21
- 34351 WARDLAW, C. W. The comparative investigation of apices of vascular plants by experimental methods. Roy. Soc. London. Philos. Trans. Ser. B. Biol. Sci. 234: 583-604. Ref. Oct.4,1950. 501 L84Pb



- 34352 WESTFALL, J. J. Aneuploidy in *Liriope muscari* Bailey. (Abs.) Amer. J. Bot. 37:667-668. Oct. 1950. 450 Am36
- 34353 WILLIAMS, B. C. The occurrence of inter-cellular canals in root tips of plants in the Polygonaceae and the Labiatae. (Abs.) Amer. J. Bot. 37:668. Oct. 1950. 450 Am36
- 34354 WITKUS, E. R. The chromosome number of several species of *Strophanthus*. Torrey Bot. Club. B. 78: 80-82. Jan./Feb. 1951. 451 T63B
- 34355 WULFF, H. D. Chromosomenstudien an der schleswig-holsteinischen Angiospermen-flora. V. Deut. Bot. Gesell. Ber. 63:64-70. Ref. Oct. 1950. 451 D48
- 34356 YARWOOD, C. E. Water content of fungus spores. Amer. J. Bot. 37:636-639. Ref. Oct. 1950. 450 Am36
- 34357 ZIMMERLY, B. C., and BANKS, H. P. On gametophytes of *Psilotum*. (Abs.) Amer. J. Bot. 37:668 Oct. 1950. 450 Am36
- 34358 ZOHARY, M. Carpobiological notes on *Alyssum*. Palestine J. Bot. Jerusalem Ser. 4:239-240. Mar. 1949. 450 P17
- 34359 ZUCCA, J. J. A study of acorns found buried in a redwood tree. Wasmann J. Biol. 8:257-265. Fall 1950. 442.8 W28
- Seeds of *Lithocarpus densiflorus* stored in woodpecker holes.

## GENETICS

- 34360 ALLUE MORER, A. La genética de los cereales. Ceres [Valladolid] 16(175):8-9. Jan. 1, 1951. 15 C33
- 34361 ARELLANO, M. R. DE. Mayor rendimiento por la selección de la simiente. Cult. Mod. 33:446. Dec. 1950. 15 C89
- 34362 BALASUBRAHMANYAN, R., SANTHANAM, V., and PILLAI, S. M. Inheritance of three new characters in the "Cocanadas" cotton. Indian Cotton Growing Rev. 4: 154-166. Ref. July 1950. 72.8 In23
- 34363 BERGGREN, F. How do you become a crop breeder? Crops & Soils 3(6):9-11. Mar. 1951. 6 W55
- 34364 BRAGDØ, M. When the chromosomes are doubled. Colchicine and polyploidy. (In Norwegian.) Norsk Hagetid. 67:27-28. Feb. 1/15, 1951. 80 N81
- 34365 BROWN, M. S., and MENZEL, M. Y. New trispecies hybrids in cotton. J. Hered. 41:291-295. Ref. Nov. 1950. 442.8 Am3
- 34366 CHUBARIAN, T. G. A case of transformation of hard *Apulikum* wheat into soft one. (In Russian.) Selek. 1 Semen 17(10):68. Oct. 1950. 61.9 Se5
- 34367 CRESCINI, F. Limits of efficiency of mass selection in plant technique. (In Italian.) Humus 6(11):3-6. Nov. 1950. 16 H88
- 34368 ELLIOTT, F. C. A stiffhair wheatgrass [*Agropyron tricophorum*]-pentad durum gene source for common wheat. Agron. J. 43:131-136. Ref. Mar. 1951. 4 Am34P
- 34369 ELTER, L. Ivan Mitchourine, génial transformateur de végétaux. Cour. Hort. 12:677-679. Dec. 1950. 80 C834
- 34370 FAVRET, E. A. Mutaciones inducidas con formaldehida en cebada. Rev. Argentina de Agron. 17:260-262. Dec. 1950. 9 R327
- 34371 FLORY, W. S., JR. Fertile  $F_1$  and backcross hybrids between two *Zephyranthes* species with different chromosome numbers. (Abs.) Va. J. Sci. (n.s.):1:351. Sept. 1950. 470 V81
- 34372 FORLANI, R. Genetics of the tomato. (In Italian.) Italia Agr. 88:39-45. Jan. 1951. 16 It1
- 34373 HASKELL, G. The heredity of double flowers. Gard. illus. 68:38-39. Feb. 1951. 80 G169
- 34374 HASKELL, G. Plant breeders of the future. London, Biological Press, 1950. 34 p. (Up-to-date in Biology. No. 2) 463.6 H27
- 34375 HUSFELD. Centres génétiques des vignes. Off. Internatl. du Vin. B. 24(239):62-65. Jan. 1951. 390.8 B87
- Germany.
- 34376 JENKINS, J. A., and MACKINNEY, G. Color in tomatoes; inheritance of pigment differences studied for true-color breeding. Calif. Agr. [Calif. Sta.] 5(2):13-14. Feb. 1951. 100 C12Ag
- 34377 JESSEN, L. S. Eavesdropping on the plant breeders. Hawaii Farm & Home 14:35. Jan. 1951. 25 H3191
- Plant breeding work, University of Hawaii College of Agriculture.
- 34378 KAPLAN, R. W. Zur frage des unterschiedes zwischen chromosomen- und gen-mutationen. Naturwissenschaften 37:546-547. Ref. Dec. 1, 1950. 474 N213
- Chiefly in plants.
- 34379 LAMPRECHT, H. Koppelungsstudien im chromosom V von *Pisum*. Agri Hortique Genet. 8:163-184. Ref. 1950. 64.8 Ag8
- English summary.
- 34380 LAMPRECHT, H., and MRKOS, H. Die vererbung des vorblattes bei *Pisum* sowie die koppelung des gens Br. Agri Hortique Genet. 8:153-162. 1950. 64.8 Ag8
- English summary.
- 34381 LITZENBERGER, S. C., and GREEN, J. M. Inheritance of awns in barley. Agron. J. 43:117-123. Mar. 1951. 4 Am34P
- 34382 MCALLISTER, D. R. The combining ability of selected alfalfa clones as related to the self-fertility of the clones, their  $F_1$  and  $F_2$  progenies. Iowa State Col. J. Sci. 25:283-284. Jan. 1951. 470 Io9
- Abstract of thesis (Ph. D.).
- 34383 MICHURIN, I. V. Nauchnye osnovy preobrazovanija prirody rastenij [Scientific principles of transforming the nature of plants]. Leningrad? "Molodaja Gvardija", 1950. 316 p. 463.62 M58N
- Fruit chiefly.
- 34384 MILLER, P. A. Variation of oil percentage in the corn kernel and a study of its inheritance through the use of chromosomal translocations. Iowa State Col. J. Sci. 25:301-303. Jan. 1951. 470 Io9
- Abstract of thesis (Ph. D.).
- 34385 MIZUSHIMA, U. Karyogenetic studies of species and genus hybrids in the tribe Brassiceae of Cruciferae. Tohoku J. Agr. Res. 1:1-14. Ref. Mar. 1950. 22.5 T574
- 34386 MIZUSHIMA, U. On several artificial allopolyploids obtained in the tribe Brassiceae of Cruciferae. Tohoku J. Agr. Res. 1:15-27. Ref. Mar. 1950. 22.5 T574
- 34387 MOREY, D., and ANDERSON, E. The genetic basis and the origin of the varieties of *Aquilegia canadensis*. (Abs.) Amer. J. Bot. 37:665-666. Oct. 1950. 450 Am36
- 34388 PAJBJERG FONDEN. Forsøgs- og forædlingsarbejde [Experiments and breeding work] 1949. n.p., 1950. 24 p. 64.9 P16
- Plant breeding.
- 34389 PARKER-RHODES, A. F. The basidiomycetes of Skokholm Island. III-IV. New Phytol. 49:328-343. Nov. 1950. 450 N42
- III, Genetic isolation in *Panaeolus papilionaceus*; IV, A case of hybridization in *Psilocybe (deconica)*.
- 34390 ROMAN, H., HAWTHORNE, D. C., and DOUGLAS, H. C. Polyploidy in yeast and its bearing on the occurrence of irregular genetic ratios. Natl. Acad. Sci. Proc. 37:79-84. Feb. 1951. 500 N21P
- 34391 SATINA, S. Preferential functioning of 2n pollen grains in certain species of *Datura*. (Abs.) Amer. J. Bot. 37:666-667. Oct. 1950. 450 Am36
- 34392 SHOWALTER, A. M. The inheritance of fruit shape in a variety of *Cucurbita moschata*. (Abs.) Va. J. Sci. (n.s.):1:351-352. Sept. 1950. 470 V81
- 34393 SIMONET, M. Sur la méiose de quelques hybrides d'Iris. I. Hybrides diploïdes et triploïdes *pogoniris* grands. Acad. des Sci. Compt. Rend. 232:650-652. Feb. 12, 1951. 505 P21
- 34394 SIMONET, M. Sur la méiose de quelques Iris *pogoevansta*, *pogocyclus* et *pogoregelia*. II. Hybrides réalisés à partir de l'I. pallida. Acad. des Sci. Compt. Rend. 231:1544-1546. Dec. 18, 1950. 505 P21
- 34395 STRAUSS, B. S. Studies on the vitamin B6-requiring, pH-sensitive mutants of *Neurospora crassa*. Arch. Biochem. 30:292-305. Ref. Feb. 1951. 381 Ar2
- 34396 ZUBER, M. S. Effect of the Y- $\gamma$  factor pair on yield and other agronomic characters in corn. Iowa State Col. J. Sci. 25:392-394. Jan. 1951. 470 Io9
- Abstract of thesis (Ph. D.).

## PHYSIOLOGY

- 34397 AALTONEN, V. T. Maansäteily metsäpuiden kasvutekijänä. Die bodenstrahlung als wachstumsbedingung der waldbäume. Finland. Metsätieteellisen Tutkimuslaitoksen Julkaisu. 37(9), 48 p. Ref. 1950. 99.9 F493
- German summary.



- 34393 ALEKSEEV, A. M., and TUSEV, N. A. Dynamics of the amount of sucking force in leaves of wheat during the early spring drought in 1949. (In Russian.) Akad. Nauk SSSR. Dok. 74:831-832. Oct.1,1950. 511 P444A
- 34399 ARNON, D. I., and WHATLEY, F. R. The participation of metals in the photolysis of water by chloroplast fragments. (Abs.) Amer. J. Bot. 37:675. Oct.1950. 450 Am36
- 34400 ARNON, D. I., and WHATLEY, F. R. Respiratory exchanges of chloroplast fragments and leaf extracts (Abs.) Amer. J. Bot. 37:675. Oct.1950. 450 Am36
- 34401 BALDOVINOS DE LA PENA, G. Growth of the maize root tip. Iowa State Col. J. Sci. 25:142-145. Jan. 1951. 470 I09  
Abstract of thesis (Ph. D.).
- 34402 BARTHOLOMEW, E. T., STEWART, W. S., and CARMAN, G. E. Some insecticide effects on citrus fruit and leaves. Citrus Leaves 31(2):26-27. Feb.1951. 80 C492
- 34403 BEAL, J. M. Chromosome aberrations in onion roots from plants grown in an atmosphere containing  $C^{14}O_2$ . (Abs.) Amer. J. Bot. 37:660. Oct.1950. 450 Am36
- 34404 BECKER, Y., and GUYOT, L. Sur les toxines racinaires des sols incultes. Acad. des Sci. Compt. Rend. 232:105-107. Jan.3,1951. 505 P21
- 34405 BECQUEREL, P. La suspension de la vie des algues, lichens, mousses aux confins du zéro absolu et rôle de la synérèse réversible pour leur survie au dégel expliquant l'existence de la flore polaire et des hautes altitudes. Acad. des Sci. Compt. Rend. 232:22-25. Jan.3, 1951. 505 P21
- 34406 BEELER, M. N. Profs ponder case of the backward bean. Capper's Farmer 62(3):16. Mar.1951. 6 M693  
Effects of coumarin on the roots of the plant.
- 34407 BEEVERS, H. Experiments on the respiration of aroid species. (Abs.) Amer. J. Bot. 37:675-676. Oct. 1950. 450 Am36
- 34408 BEHM, H. W. Das werdensgeheimnis der blumen. Nat. u. Nahr. 4(21/22):10-12. Nov.1950. 80 N218
- 34409 BEREZOVA, E. F. Role of microorganisms in plant nutrition in the light of the foremost agrobiological science. (In Russian.) Sovet. Agron. 8(11):27-34. Nov. 1950. 20 So84
- 34410 BERGARA, R. Con fuertes descargas electricas se favorece el poder germinativo. Chacra 21(243): 59. Feb.1951. 9 C34
- 34411 PERTOSI, F. Action de l'acide diphenyllacétique sur les tissus d'endive et de rhizomes de topinambour cultivés "in vitro." Soc. de Biol. Compt. Rend. 144:1330-1338. Oct.1950. 442.9 P21
- 34412 BOGORAD, L. Effects of streptomycin on chlorophyll formation in dark-grown seedlings. (Abs.) Amer. J. Bot. 37:676. Oct.1950. 450 Am36  
Seedlings of *Pinus jeffreyi*.
- 34413 BOND, G. Symbiosis of leguminous plants and nodule bacteria. IV. Ann. Bot. (n.s.):15:95-108. Ref. Jan.1951. 450 An7
- 34414 BRIAN, P. W., and others. Uptake of antibiotic metabolites of soil microorganisms by plants. Nature [London] 167:347-349. Ref. Mar.3,1951. 472 N21  
J. M. Wright, J. Stubbs, and A. M. Way, joint authors.
- 34415 BROWN, A. W. A. Effect on trees of extremes of climate in southern Alberta. Canad. Field-Nat. 64:185 186. Sept./Oct.1950. 410.8 O08
- 34416 CAMUS, G. C., EGGMAN, L., and WILDMAN, S. G. Preliminary studies of the influence of night temperature on the photoplasmic constituents of tobacco leaves. (Abs.) Amer. J. Bot. 37:676. Oct.1950. 450 Am36
- 34417 CAMUS, G. C., and WENT, F. W. Thermopredicity of different varieties of tobacco. (Abs.) Amer. J. Bot. 37:676-677. Oct.1950. 450 Am36
- 34418 CARLONE, R. Effect of growth substances on the pre-harvest drop of apples and pears. I. (In Italian.) Ann. della Sper. Agr. (n.s.):5:55-93. Ref. 1951. 16 An76  
English summary.
- 34419 CAUJOLLE, F., and BERGAL, G. Influence de l'acide  $\alpha$ -naphthylborique sur la germination et le développement des plantules de quelques Dicotyledones. Acad. des Sci. Compt. Rend. 232:109-110. Jan.3,1951. 505 P21
- 34420 CAUJOLLE, F., and BERGAL, G. Influence des acides borique et phénylborique sur la germination et le développement des plantules de quelques dicotylédones. Acad. des Sci. Compt. Rend. 231:1550-1552. Dec.18,1950. 505 P21
- 34421 CERUTI, A. Intensity and resistance in the process of contraction of the chondriome. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.):56:251-253. 1949. 450 N92
- 34422 CHIRKOV, V. I. Seed germination of some species of apples. (In Russian.) Bot. Zhur. 35:387-394. July/Aug.1950. 451 R923
- 34423 CHOUARD, P., and POIGNANT, P. Recherches préliminaires sur la vernalisation en présence d'inhibiteurs de germination et de respiration. Acad. des Sci. Compt. Rend. 232:103-105. Jan.3,1951. 505 P21
- 34424 CHRIST, E. G. Arsenic toxicity to strawberry plants. N. J. State Hort. Soc. Hort. News 32:2337. Jan. 1951. 81 N46
- 34425 CICCARONE, A. A basal rot of oranges and mandarin oranges. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.):56:291-293. 1949. 450 N92  
Physiological.
- 34426 CLAVER, F. K. Influencia de la luz y temperatura sobre la incubación de la papa. La Plata. U. Nac. Facul. de Agron. Lab. de Bot. B. 3:2-3. Nov.1950. 451 L312
- 34427 CLENDENNING, K. A. Photosynthesis; a review of recent research on its mechanism. Chem. Canada 3(2):29-34. Ref. Feb.1951. 381 C4236
- 34428 CORTVRIENDT, S. F., HOLDER, J. VAN, and ONSEM, J. G. VAN. Treatment of cuttings with growth substances. (In Dutch.) Gent. Landbhogesch. Meded. 15:325-356. June 1950. 105.1 G344  
English summary.
- 34429 CRAMER, M. L., and MYERS, J. Photosynthetic characteristics of Euglena. (Abs.) Amer. J. Bot. 37: 677. Oct.1950. 450 Am36
- 34430 CROSBY-BROWNE, A. J. The root parasitism of *Euphrasia salisburgensis* Funck. Watsonia 1:354-355. Dec.1950. 450 W33
- 34431 DADYKIN, V. P. Study of root system of plants developed on cold soils. (In Russian.) Moskov. Obshch. Isp. Prirody. Otd. Biol. B. (n.s.):75(3):58-69. Ref. 1950. 511 M85  
Includes barley, oats and potatoes.
- 34432 DAVID, R., and SECHET, J. L'activation de la post-maturation des graines par les basses températures. Terre d'Oc 33:54-58. Feb.1951. 14 Ar5  
Seed vernalization.
- 34433 DEMOLON, A., and others. Sur le mode de nutrition des végétaux en milieu hétérogène et discontinu. Acad. des Sci. Compt. Rend. 231:1381-1384. Dec.18,1950. 505 P21  
P. Boischot, E. Tyszkiewicz, and G. Sylvestre, joint authors.
- 34434 DEYSSON, G., and ROLLEN, A. Anomalies mitotiques provoquées par la diéthylmalonylurée (véronal) chez l'*Allium cepa* L. Acad. des Sci. Compt. Rend. 232: 548-549. Feb.5,1951. 505 P21
- 34435 DOXEY, D., and RHODES, A. The effects of the gamma isomer of benzene hexachloride (hexachlorocyclohexane) on plant growth and on mitosis. Ann. Bot. (n.s.):15:47-52. Ref. Jan.1951. 450 An7
- 34436 DUNGAN, G. H., and GAUSMAN, H. W. Clipping corn plants to delay their development. Agron. J. 43: 90-93. Feb.1951. 4 Am34P
- 34437 EIFRIG, H. Der einfluss verschiedener temperaturen auf die keimfähigkeit von Brassica-samen in beziehung zum feuchtigkeitsgehalt derselben. Saatgut-Wirt. 2:280-282. Dec.1950. 61.8 Sal
- 34438 ELAGIN, I. N. Growth and development of wild Caucasian pear (*Pyrus caucasica* A. Fed.) under various habitat conditions. (In Russian.) Akad. Nauk SSSR. Dok. 74:823-825. Oct.1,1950. 511 P444A
- 34439 ERICKSON, L. C., and PRICE, C. Some effects of maleic hydrazide on sugar beet plants. Amer. J. Bot. 37:657-659. Oct.1950. 450 Am36
- 34440 FAHN, A. Studies in the ecology of nectar secretion. Palestine J. Bot. Jerusalem Ser. 4:207-224. Ref. Mar.1949. 450 P17
- 34441 FREDRIKSSON, L., and WIKLANDER, L. Studies on the uptake of phosphorus by potatoes by means of radiophosphorus. (In Swedish.) Lantbrakad. Tidskr. 89: 446-459. Ref. 1950. 104 Sw3  
English summary.
- 34442 FRENKEL, A. W. The effect of carbon monoxide on the photosynthesis of *Chlorella pyrenoidosa* Chick. (Abs.) Amer. J. Bot. 37:677. Oct.1950. 450 Am36



- 34443 FRITZSCHE, R., and STOLL, K. Einige bemerkungen zur korkkrankheit an äpfeln. Schweiz. Z. f. Obst- u. Weinbau 60:3-7. Jan.13,1951. 80 Sch9
- 34444 GALLAS, G. Qufmica y carácter fitohormonal. Ion 10:593-596. (Concl.) Oct.1950. 385 Io6
- 34445 GAMA, A. M. P. DA. Protective action of snow on vegetation. (In Portuguese.) Agros [Lisboa] 33: 273-280. Nov./Dec.1950. 15.5 Ag82
- 34446 GEISSLER, G. Über die durch mitosegifte, wuchs- und keimungshemmstoffe hervorgerufene keulenbildung an zwiebelwurzeln. Naturwissenschaften 37:563-564. Dec.15,1950. 474 N213
- 34447 GENKEL, P. A., and TSVETKOVA, I. V. Effect of salts on viscosity of protoplasm and heat resistance of plant cells. (In Russian.) Akad. Nauk SSSR. Dok. 74:1025-1028. Oct.11,1950. 511 P444A  
Experiments with succulents.
- 34448 GHISELNI, P. L. Observations on the regeneration of root structures in *Asparagus officinalis* L. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:249-251. 1949. 450 N92  
English summary.
- 34449 GIANNUOLI, S. Growth cycle and bud differentiation in perennial plants in Bari Territory. VI. Histology and rhythm of growth in the wood of *Ficus carica* L. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:188-197. 1949. 450 N92  
English summary.
- 34450 GLASS, E. H. On McIntosh and related varieties; activated charcoal may be the answer to parathion injury. Amer. Fruit Grower 71(2):28,56-57. Feb.1951. 80 G85
- 34451 GOODWIN, R. H., and OWENS, O. V. H. The effectiveness of the spectrum in *Avena* internode inhibition. Torrey Bot. Club. B. 78:11-21. Ref. Jan./Feb. 1951. 451 T63B
- 34452 GORDON, E. M. Light- and temperature-sensitivity in germinating seed of timothy (*Phleum pratense* L.). Sci. Agr. 31:71-84. Feb.1951. 7 Sci2
- 34453 GORDON, S. A., and WEBER, R. P. The effect of X-radiation on indoleacetic acid and auxin levels in the plant. (Abs.) Amer. J. Bot. 37:678. Oct.1950. 450 Am36
- 34454 HAARER, A. E. Things we don't know about plant roots. Fruit-Grower 2877:283-284. Feb.15,1951. 80 F941
- 34455 HAAS, A. R. C. Leaf symptoms of potash deficiency. Calif. Citrog. 36:181. Mar.1951. 80 C125
- 34456 HAMMOND, L. C. The influence of oxygen and carbon dioxide levels in the substrate upon potassium absorption by plants. Iowa State Col. J. Sci. 25:239-241. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 34457 HARLEY, J. L., and MCCREADY, C. C. The uptake of phosphate by excised mycorrhizal roots of the beech. New Phytol. 49:388-397. Nov.1950. 450 N42
- 34458 HARTT, C. E., and BURR, G. O. Carbohydrate formation by sugarcane fed radioactive carbon dioxide. (Abs.) Amer. J. Bot. 37:678. Oct.1950. 450 Am36
- 34459 HEINRICH, H. L., PAUL, W., and SCHUBERT, G. Über die wirkung von schnellen elektronen (4 meV) und röntgenstrahlen (180 kv) auf mitosevorgänge in wurzelspitzenzellen von *Vicia faba*. Naturwissenschaften 37: 544-545. Dec.1,1950. 474 N213
- 34460 HEY, G. L., and HOPE, P. P. A new theory of the action of plant hormones. Grower [London] 35:68-69,118-119. Jan.13-20,1951. 286.83 M34
- 34461 HILDEBRANDT, A. C., and RIKER, A. J. Growth of plant tissue in vitro influenced by the concentration of sugars and polysaccharides. (Abs.) Amer. J. Bot. 37:678-679. Oct.1950. 450 Am36
- 34462 HOSHAU, R. W., and GUARD, A. T. The morphological and anatomical effects of various concentrations of 2,4-D on corn seedlings. (Abs.) Amer. J. Bot. 37:662-663. Oct.1950. 450 Am36
- 34463 HOW TO diagnose and to avoid 2,4-D tree injury. Agr. Chem. 6(3):42-43,122-123,125. Mar.1951. 381 Ag8
- 34464 HUBER, B. Registrierung des CO<sub>2</sub>-gefälles und berechnung des CO<sub>2</sub>-stromes über pflanzen-gesellschaften mittels ultrarot-absorptionsschreiber. Deut. Bot. Gesell. Ber. 63:52-63. Ref. Oct.1950. 451 D48
- 34465 INGRAHAM, J. Nutrition and metabolism of *Allomyces arbuscula*. (Abs.) Amer. J. Bot. 37:668-669. Oct.1950. 450 Am36
- 34466 JACOBS, W. P. Auxin relationships in an intercalary meristem: further studies on the gynophore of *Arachis hypogaea*. (Abs.) Amer. J. Bot. 37:679. Oct. 1950. 450 Am36
- 34467 JAGENDORF, A. T., and BONNER, D. M. The induction of atypical growth of cabbage roots by p-Cl-phenoxycetic acid. (Abs.) Amer. J. Bot. 37:679. Oct. 1950. 450 Am36
- 34468 JAMES, E., and BANCROFT, T. A. The use of half-plants in the balanced incomplete block in investigating the effect of calcium, phosphorus, and potassium, at two levels each, on the production of hard seed in crimson clover, *Trifolium incarnatum*. Agron. J. 43:96-98. Ref. Feb.1951. 4 Am34P
- 34469 JAMES, W. O., and BEEVERS, H. The respiration of *Arum* spadix. A rapid respiration, resistant to cyanide. New Phytol. 49:353-374. Ref. Nov.1950. 450 N42
- 34470 JOHAM, H. E. Tissue tests as indicators of mineral nutrition of cotton. Iowa State Col. J. Sci. 25:268-270. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 34471 JOSEPHSON, L. M. Reaction of inbreds and hybrids to pre-emergence and post-emergence spraying with 2,4-D. South. Corn Impr. Conf. Rpt. 9:26-27. Dec. 1950. 59.9 So87
- 34472 KALIUZHNYI, M. I. A. Water content and some properties of yeasts grown on culture media with different contents of sodium salts. (In Russian.) Mikrobiologiya 19:338-347. Ref. July/Aug.1950. 448.3 M582
- 34473 KANDELAKI, G. V. Changes in plastid structure under the influence of colored lighting. (In Russian.) Akad. Nauk SSSR. Dok. 74:833-835. Ref. Oct.1,1950. 511 P444A  
Observations on *Panicum miliaceum*.
- 34474 KANDLER, O. Zur frage einer endogenen wachstumsrhythmik bei in vitro kultivierten maiswurzeln. Biol. Zentbl. 70:64-70. Ref. 1951. 442.8 B523
- 34475 KATER, J. M. Amitosis. II. Bot. Rev. 17:105-108. Ref. Feb.1951. 450 B6527
- 34476 KERLING, L. C. P. Developmental processes of the rice plant in relation to photoperiodism. II. Nederland. Akad. van Wetensch. Proc. 53:1617-1633. Ref. Dec.1950. 503 Am8P
- 34477 KIDSON, E. B. "Hard-core"—a nutritional disorder of tomatoes. J. Hort. Sci. 26:8-21. Dec.1950. 80 J825
- 34478 KIELY, T. Exanthema of citrus trees. N. S. Wales. Dept. Agr. Plant Dis. L. 19,7 p. 1950. 464.9 N47
- 34479 KÖGL, F., and ULTÉE, A. J., JR. Synthesen auf dem auxin-gebiet. III. Ein einfaches strukturanalogon von auxin-a. 41. Mitteilung über pflanzliche wachstumsstoffe. Rec. des Trav. Chim. des Pays-Bas 69:1576-1588. Dec.1950. 385 R24
- 34480 KOLTERMANN. Spritzschäden durch hormonnittel im hafer? Gesunde Pflanzen 2:259-260. Oct.1950. 464.8 G33
- 34481 KRISHNAMURTHI, S. Nutrition in relation to yield, quality and certain diseases in citrus. Planters' Chron. 45:645-649. Dec.15,1950. 22 P693
- 34482 KUCHAR, K. W. Plasmolyseverhalten von *Oospora lactis*. Sydowia 4:53-65. Ref. Sept.30,1950. 450 Sy2
- 34483 KUCHAR, K. W. Die wuchsstoffe bei *Oospora lactis* (Fres.) Sacc. Sydowia 4:409-449. Ref. Sept.30, 1950. 450 Sy2
- 34484 LA COUR, L. F. Combined effects of X-rays and temperature on mitosis. Nature [London] 167:318-319. Feb.24,1951. 472 N21  
Experiments with *Trillium*.
- 34485 LAHTINEN, L., and BROWN, A. H. The incorporation of tracer hydrogen during photosynthesis. (Abs.) Amer. J. Bot. 37:679-680. Oct.1950. 450 Am36
- 34486 LARSEN, P. Quantitative relationships in the enzymatic conversion of indole- and naphthalene-acetaldehydes to auxins. (Abs.) Amer. J. Bot. 37:680. Oct. 1950. 450 Am36
- 34487 LARUE, C. D. Regeneration in *Cycas*. (Abs.) Amer. J. Bot. 37:664. Oct.1950. 450 Am36
- 34488 LAVOLLAY, J., and NEUMANN, J. Toxicité des p-amino et p-hydroxy-acétophénonnes pour *Aspergillus niger*. Spécificité d'action antitoxiques des acides p-amino et p-hydroxybenzoïques. Acad. des Sci. Compt. Rend. 232:758-760. Feb.19,1951. 505 P21
- 34489 LAVRENKO, E. M. Observations on late-autumn condition and root system of some plants in Southern Kirgizia. (In Russian.) Moskov. Obsch. Isp. Prirody. Otd. Biol. B. (n.s.)75(4):51-62. Ref. 1950. 511 M85



- 34490 LECRENIER, A. Contribution à l'étude des raisins de serre. Inst. Agron. et Sta. de Rech. de Gembloux. B. 18(1/2):75-88. 1950. 105.1 G285  
English summary.  
Relation of number of seeds to weight of berries.
- 34491 LEVINE, M. Differentiation of carrot segments grown in vitro as influenced by growth substances. (Abs.) Amer. J. Bot. 37:664. Oct. 1950. 450 Am36
- 34492 LEVITT, J. Toward a clearer concept of osmotic quantities in plant cells. Science 113:228-231. Ref. Mar. 2, 1951. 470 Sci2
- 34493 LONGCHAMP, R., and PACHÉCO, H. Action du 2,4-dibromophénylglycocolle sur le développement des tissus de topinambour cultivés in vitro. Acad. des Sci. Compt. Rend. 231:1535-1537. Dec. 18, 1950. 505 P21
- 34494 LONGCHAMP, R., ROY, M., and GAUTHERET, R. Recherches sur l'action comparée de quelques désécherbants sélectifs sur les céréales. Acad. des Sci. Compt. Rend. 232:111-113. Jan. 3, 1951. 505 P21
- 34495 LOPATECKI, L. E., and NEWTON, W. The nutrition of *Phytophthora* spp. (Abs.) Canad. Phytopath. Soc. Proc. (1950) 17:11-12. Jan. 27, 1951. 464.9 C162
- 34496 LOUSTALOT, A. J., CRUZADO, H. J., and MUZIK, T. J. The effect of 2,4-D on sugar content of sugarcane. Actualidades 1951:50-53. Jan. 1951. 65.9 As52
- 34497 MCDONOUGH, E. S., and FOLL, S. C. Excess callusing in roses as related to flower production and vegetative growth. Phytopathology 41:196-197. Feb. 1951. 464.8 P56
- 34498 MACEWAN, A. M. The effects of differences in transpiration rates of individual leaves on their rates of accumulation of P32. (Abs.) Amer. J. Bot. 37:680. Oct. 1950. 450 Am36
- 34499 MCMURRAY, S. F. Differential reaction of some southern inbreds to pre-emergence spraying with 2,4-D, 1950. South. Corn Impr. Conf. Rpt. 9:31. Dec. 1950. 59.9 So87
- 34500 MAKAROV, B. N. Effect of daylength on development and yields of sugar beet during the first year of its life. (In Russian.) Akad. Nauk SSSR. Dok. 74: 837-840. Oct. 1, 1950. 511 P444A
- 34501 MARRIOTT, P. F. Plant growth substances for the propagation of cuttings. Victoria. Dept. Agr. J. 49:35-40. Jan. 1951. 23 V66J
- 34502 THE MEANING of mycorrhiza. Org. Farmer 2(7):36-38. Feb. 1951. 57.8 Or3
- 34503 MEDVEDEV, P. F. On differences in relationship of kok-saghyz and krym-saghyz to soil acidity. (In Russian.) Akad. Nauk SSSR. Dok. 74:785-788. Oct. 1, 1950. 511 P444A
- 34504 MESA-BERNAL, D. Deficiencias minerales en los vegetales. Rev. Ganad. [Habana] 11(3):51-52. Mar. 1951. 49 R321
- 34505 METCALFE, D. S. Physiologic responses of *Bromus inermis*. Iowa State Col. J. Sci. 25:298-300. Jan. 1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 34506 MILLER, I. H., JR., and BURRIS, R. H. Responses of cell-free enzymes and plant tissues to growth substances. (Abs.) Amer. J. Bot. 37:680. Oct. 1950. 450 Am36
- 34507 MINARIK, C. E., and READY, D. Growth regulating activity of substituted benzoic acid derivatives. (Abs.) Amer. J. Bot. 37:680. Oct. 1950. 450 Am36
- 34508 MINIO, M. Opposing phases of vegetative exuberance and cystocarpic research in decay in the propagation of *Gracilaria confervoides* (L.) Grev. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.) 56:298-302. 1949. 450 N92
- 34509 MIRIMANIAN, V. A. Biological peculiarities of lemons and mandarin oranges which explain their varied frost resistance. (In Russian.) Akad. Nauk SSSR. Dok. 74:1029-1032. Ref. Oct. 11, 1950. 511 P444A
- 34510 MULDER, D. Diagnostics and methods of analysis used in investigation of nutrition diseases. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13 (10, sup.):365-379. Nov. 1950. 86 N384  
Plants.
- 34511 MURRAY, D. B. Photoperiodism in rice in Trinidad with reference to a second crop. Empire J. Expt. Agr. 18:271-275. Oct. 1950. 10 Em7
- 34512 NANCE, J. F. Impairment of pyruvate utilization in excised wheat roots by various plant growth substances. (Abs.) Amer. J. Bot. 37:680-681. Oct. 1950. 450 Am36
- 34513 NAUNDORF, G. Las fitohormonas y sus aplicaciones prácticas. I. Agr. Trop. 6(2):33-38. Feb. 15, 1950. 26 Ag8
- 34514 NAYLOR, A. W., and DAVIS, E. A. Respiration response of root tips to maleic hydrazide. Torrey Bot. Club. B. 78:73-79. Ref. Jan./Feb. 1951. 451 T63B
- 34515 NAYLOR, A. W. Some effects of growth substances on floral initiation and development in *Xanthium*. (Abs.) Amer. J. Bot. 37:681. Oct. 1950. 450 Am36
- 34516 NIKITENKO, G. F. On the biological importance of side ears in two-rowed barleys. (In Russian.) Akad. Nauk SSSR. Dok. 74:819-821. Ref. Oct. 1, 1950. 511 P444A
- 34517 NORTHCRAFT, R. D. Use of oxalate to produce free living cells from plant tumor tissues grown in vitro. (Abs.) Amer. J. Bot. 37:681. Oct. 1950. 450 Am36
- 34518 NOVIKOV, V. A., and BARANNIKOVA, Z. D. Critical period in the relationship of oats to light intensity. (In Russian.) Akad. Nauk SSSR. Dok. 75:299-302. Nov. 11, 1950. 511 P444A
- 34519 OLSON, P. J., and others. Sensitivity of wheat and barley at different stages of growth to treatment with 2,4-D. Agron. J. 43:77-83. Ref. Feb. 1951. 4 Am34P  
S. Zalik, W. J. Breakey, and D. A. Brown, joint authors.
- 34520 OSBORNE, D. J., and WAIN, R. L. Studies on plant growth-regulating substances. II. Synthetic compounds inducing morphogenic responses in the tomato plant. J. Hort. Sci. 26:60-74. Ref. Dec. 1950. 80 J825
- 34521 OZEROV, G. V. On the capability of guayule to regenerate lost organs. (In Russian.) Akad. Nauk SSSR. Dok. 74:841-844. Oct. 1, 1950. 511 P444A
- 34522 PENNINGSFELD, F., and SIEBER, J. Hydrokulturversuche in Welthenstephan. Landwirt. Jahrb. f. Bayern 27(7/8):3-28. Nov./Dec. 1950. 18 L24
- 34523 PHILLIPS, J. N., JR., and MYERS, J. Cellular production from organic substrates by *Chlorella*. (Abs.) Amer. J. Bot. 37:681-682. Oct. 1950. 450 Am36
- 34524 RAGGIO, M., and RAGGIO, N. M. DE. Ensayo de viabilidad de semillas con cloruro de 2,3,5-trifeniltetrazol. La Plata. U. Nac. Facul. de Agron. Lab. de Bot. B. 3:1-2. Nov. 1950. 451 L312
- 34525 RAPPAPORT, J., SATINA, S., and BLAKESLEE, A. F. Extracts of ovarian tumors and their inhibition of embryo growth in *Datura*. Amer. J. Bot. 37:586-595. Oct. 1950. 450 Am36
- 34526 REUTHER, W., and SMITH, P. F. Tissue analysis as an aid in evaluating the nutritional status of citrus trees. Rio Grande Val. Hort. Inst. Proc. 5:34-45. Ref. 1951. 81 L95
- 34527 ROBBINS, W. J., HERVEY, A., and STEBBINS, M. E. Studies on Euglena and vitamin B12. (Abs.) Amer. J. Bot. 37:670. Oct. 1950. 450 Am36
- 34528 ROEGNER, F. R., STAHMANN, M. H., and STAUFFER, J. F. The mutagenic action of ultraviolet radiation and N-mustards on *Penicillium chrysogenum*. (Abs.) Amer. J. Bot. 37:670. Oct. 1950. 450 Am36
- 34529 ROUSSEAU, J. Action de l'acide  $\alpha$  naphtalène acétique sur les corbeilles à propagules de *Marchantia polymorpha* L. et de *Lunularia cruciata* Adans. Acad. des Sci. Compt. Rend. 232:107-108. Jan. 3, 1950. 505 P21
- 34530 ROUSSEAU, J. Action des acides 2,4-dichlorophénoxy-acétique et 2,5-dichloro-thio-acétique sur les propagules de *Marchantia polymorpha* L. Acad. des Sci. Compt. Rend. 232:749-751. Feb. 19, 1951. 505 P21
- 34531 RUSH, G. E., and NEAL, N. P. The effect of maturity and other factors on stands of corn at low temperatures. Agron. J. 43:112-116. Ref. Mar. 1951. 4 Am34P
- 34532 SACKSTON, W. E. Effect of defoliation on sunflowers. (Abs.) Canad. Phytopath. Soc. Proc. (1950) 17: 13. Jan. 27, 1951. 464.9 C162
- 34533 SAKAMURA, T., and MAEDA, K. On the assimilation of nitrate nitrogen by *Hansenula anomala*. Hokkaido U. Facul. Sci. J. Ser. V. Bot. 7:79-99. Ref. Feb. 1950. 451 H68
- 34534 SCHENK, P. J. Abnormal symptoms in grapes. (In Dutch.) Groenten en Fruit 6:407. Dec. 14, 1950. 80 G89
- 34535 SEREBRIAKOV, I. G. Some data on sympodial branching of our trees and shrubs. (In Russian.) Moskov. Obsch. Isp. Prirody. Otd. Biol. B. (n.s.) 75(4):63-67. 1950. 511 M85
- 34536 SHCHERBAKOV, A. P. Role of calcium in the accumulation and distribution of dry matter in the various organs of soybeans. (In Russian.) Akad. Nauk SSSR. Dok. 74:851-854. Oct. 1, 1950. 511 P444A



- 34537 SIMLOTE, K. M. Effect of rainfall on the staple-length of Malvi 9. *Indian Cotton Growing Rev.* 4: 143-148. July 1950. 72.8 In23
- 34538 STVORI, E. M., and RAGONESE, A. E. Sobre presión osmótica en plantas de las Salinas Grandes. *La Plata. U. Nac. Facul. de Agron. Lab. de Bot. B.* 3:3-4. Nov.1950. 451 L312
- 34539 SMITH, R. M., and FUHRMAN, D. K. The use of water by sugar cane in Puerto Rico. (Abs.) *Actualidades 1951:42-43.* Jan.1951. 65.9 As52
- 34540 SOBELS, J. C., and BRUGGE, H. F. J. VAN DER. Influence of daylight on the fruiting of two orange-yellow pigmented Myxomycete plasmodia. *Nederland. Akad. van Wetensch. Proc.* 53:1610-1616. Dec.1950. 503 Am8P
- 34541 SOKOLOVA, N. F. Role of leaves in the formation of the cotton crop. (In Russian.) *Akad. Nauk SSSR. Dok.* 75:307-310. Nov.11,1950. 511 P444A
- 34542 SPARROW, A. H., and CHRISTENSEN, E. Effects of X-ray, neutron, and chronic gamma irradiation on growth and yield of potatoes. (Abs.) *Amer. J. Bot.* 37:667. Oct.1950. 450 Am36
- 34543 STAHL, C. Viability of Danish grown seed tested since July 1, 1950. (In Danish.) *Dansk Frøavl* 34: 11-13. Jan.15,1951. 61.8 D23
- 34544 STAKMAN, E. C., and ROWELL, J. B. Inorganic compounds inducing mutation in *Ustilago zeae*. (Abs.) *Amer. J. Bot.* 37:670-671. Oct.1950. 450 Am36
- 34545 STANTON, W. R., and SINCLAIR, W. K. Effect of high concentration of phosphorus-32 on growth of the potato. *Nature [London]* 167:234-235. Feb.10,1951. 472 N21
- 34546 STEFANOVSKIY, I. A. Zasukhoushoichivost' firovykh pshenits. [Drought resistance of spring wheats]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 223 p. 463.32 St3
- 34547 STREL'NIKOV, I. G. Effect of suckers on the fruit-bearing of grape-vine buds. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):41-43. Oct.1950. 95.8 V77
- 34548 TAFT, D. L. The effects of habitat on stomatal frequency. *Kans. Acad. Sci. Trans.* 53:477-487. Dec. 1950. 500 K13T
- 34549 TEILLARD. Description d'un appareil destiné à l'expérimentation sur les geles printanières afin de contrôler les réactions des bourgeons de vigne et de déterminer l'action des différentes causes d'abaissement de la température. *Premiers essais. Acad. d'Agr. de France. Compt. Rend.* 36:630-633. Nov.15/22,1950. 14 2215Bc
- 34550 TROCME, S., BARBIER, G., and CHABANNES, J. Recherches sur la chlorose, par carence de manganèse, cultures irriguées à l'eau d'égout. *France. Inst. Natl. de la Rech. Agron. Ann. Sér. A: Ann. Agron.* 1:663-685. Ref. Sept./Oct.1950. 14 F8499
- 34551 TRUMBLE, H. P. C. Zinc sprays for citrus mottle leaf control; zinc oxide not now recommended. *So. Austral. Dept. Agr. J.* 54:236-237. Dec.1950. 23 So84
- 34552 TUR'ANSKIY, G. F. Potential fruit bearing of central buds of grape leaf buds. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):43-46. Oct.1950. 95.8 V77
- 34553 VALLANCE, K. B. Studies on the germination of the seeds of *Striga hermonthica*. III. *Ann. Bot. (n.s.)* 15: 109-128. Ref. Jan.1951. 450 An7
- 34554 VERMAAT, J. G. Problems in connection with the assimilation of nitrogen by barley. (In Dutch.) *Natl. Comt. v. Brouwergerst. Jaarb.* (1951)15:54-64. 1950. 390.9 N21
- 34555 VEZIN, C., and SCHAEFFER, L. Deux exemples d'accidents de végétation causés par le 2-4-D. *Phytoma* 3(20):18-19. Nov.1950. 464.8 P563
- Pears and peaches.
- 34556 VIETS, F. G., JR. Zinc deficiency of corn and beans on newly irrigated soils in central Washington. *Agron. J.* 43:150-151. Mar.1951. 4 Am34P
- 34557 VIGNOLO-LUTATI, F. On the sterility of *Centaurea hybrida* All. (1945). (In Italian.) *Nuovo Gior. Bot. Ital. (n.s.)* 56:238. 1949. 450 N92
- 34558 WADE, G. C. Manganese deficiency of apples. *Tasmania. Dept. Agr. Tasmanian J. Agr.* 21:323-324. Nov.1,1950. 23 T182T
- 34559 WALLACE, M. J. Chemical fruit setting and the early tomato. *Smallholder* 84(2127):9. Feb.23,1951. 10 Sml
- 34560 WEBSTER, G. C. Studies on the respiration of blue-green algae. (Abs.) *Amer. J. Bot.* 37:682. Oct. 1950. 450 Am36
- 34561 WEINTRAUB, R. L., and BROWN, J. W. Influence of temperature on formative response of bean seedlings to 2,4-dichlorophenoxyacetic acid. (Abs.) *Amer. J. Bot.* 37:682. Oct.1950. 450 Am36
- 34562 WEINTRAUB, R. L., and others. Production of  $C^{14}O_2$  from labeled 2,4 dichlorophenoxyacetic acid by plants. (Abs.) *Amer. J. Bot.* 37:682. Oct.1950. 450 Am36
- J. W. Brown, M. Fields, and J. Rohan, joint authors.
- 34563 WILSON, L. G., and STAUFFER, J. F. Relative effectiveness of various wavelengths of ultraviolet in inducing biochemical variants in *Penicillium chrysogenum* NRRL 1951. (Abs.) *Amer. J. Bot.* 37:671. Oct. 1950. 450 Am36
- 34564 WINTER, A. G. Zur verbreitung und bedeutung der mykorrhiza bei landwirtschaftlichen kulturpflanzen. *Naturwissenschaften* 37:542-543. Dec.1,1950. 474 N213
- 34565 WUYTS-ROBIETTE, J., and MASSART, L. L'antagonisme tryptaflavine-sels étudié sur la mitose d'*Allium cepa*. *Arch. Internat. de Pharmodyn. et de Thé.* 85:249-255. Jan.1,1951. 448.8 Ar226
- 34566 YOCUM, C. S., and BLINKS, L. R. Photosynthetic quantum efficiencies of marine plants. (Abs.) *Amer. J. Bot.* 37:683. Oct.1950. 450 Am36

## BIOCHEMISTRY

- 34567 BONNET, J., and COPPENS, R. L'absorption des éléments nutritifs par le houblon. *Inst. Agron. et Sta. de Rech. de Gembloux. B.* 18(1/2):21-32. 1950. 105.1 G285
- English summary.
- 34568 BOUGY, E. La saccharogénie dans la betterave. *Acad. des Sci. Compt. Rend.* 232:546-547. Feb.5,1951. 505 P21
- 34569 BOURDILLON, J. A crystalline bean seed protein in combination with phytic acid. *J. Biol. Chem.* 189(1):65-72. Ref. Mar.1951. 381 J824
- 34570 BRYANT, F., and OVERELL, B. T. Displacement chromatography on ion-exchange columns of the carboxylic acids in plant tissue extracts. *Nature [London]* 167:361-362. Mar.3,1951. 472 N21
- 34571 BREBION, G. Sur l'excitation de la synthèse de la chlorophylle par divers agents chimiques. *Acad. des Sci. Compt. Rend.* 231:1537-1539. Dec.18,1950. 505 P21
- Experiment with wheat.
- 34572 BUDNITSKAIA, E. V., and OVCHAROV, K. E. On the possibility of utilizing color reaction for carotenoids in plant tissues. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:779-780. Ref. Oct.1,1950. 511 P444A
- 34573 CARROLL, J. C., and PENG, C. L. A comparison of the niacin and pantothenic acid content of certain cereal grains grown under the same environmental conditions. *Science* 113:211-212. Feb.23,1951. 470 Sci2
- 34574 COUCH, J. F., KREWSON, C. F., and NAGHSKI, J. Chemistry, pharmacology, and clinical application of rutin. *U. S. Bur. Agr. & Indus. Chem. AIC-291*, 30 p. Ref. Feb.1951. 1.932 A2Ag82
- 34575 DARLOT, P. Variation de composition des gaz internes d'une plante aquatique au cours d'un cycle de 24 heures. *Acad. des Sci. Compt. Rend.* 232:544-545. Feb.5,1951. 505 P21
- 34576 DELWICHE, C. C. The assimilation of ammonium and nitrate ions by tobacco plants. *J. Biol. Chem.* 189(1):167-175. Ref. Mar.1951. 381 J824
- 34577 DUNSTAN, W. J., and SIMES, J. J. Occurrence of saponins in spear-lilies [Doranthus]. *Austral. J. Sci.* 13:50-51. Oct.1950. 475 Au72
- 34578 FEDOROV, M. V. Theoretical importance of V. S. Butkevich's investigation on the study of albumin conversions in plants and the chemistry of organic acid formation in them. (In Russian.) *Mikrobiologiya* 19:369-383. Ref. July/Aug.1950. 448.3 M582
- 34579 FREELAND, R. O. Green pigments in guard cells. (Abs.) *Amer. J. Bot.* 37:677. Oct.1950. 450 Am36
- 34580 GALLAS, G. Química y carácter fitohormonal. *Ion* 10:520-527. (To be cont.) Sept.1950. 385 Io6
- 34581 GALSTON, A. W., BONNER, J., and BAKER, R. S. Flavoprotein and peroxidase as constituents of the indoleacetic acid oxidase of peas. (Abs.) *Amer. J. Bot.* 37:677-678. Oct.1950. 450 Am36
- 34582 GASTEL, R., and GIBBS, M. On the mechanism of lactic acid synthesis by the fungus *Rhizopus oryzae* studied with  $C^{14}$ . (Abs.) *Amer. J. Bot.* 37:668. Oct.1950. 450 Am36



- 34583 GOODWIN, R. H., KOSKI, V. M., and OWENS, O. V. H. The distribution and properties of a porphyrin from the epidermis of *Vicia shoots*. (Abs.) *Amer. J. Bot.* 37:678. Oct.1950. 450 Am36
- 34584 GRIEBEL, C. Zur Kenntnis der mungobohne. *Z. f. Lebensmitl.-Untersuch. u. -Forsch.* 91:414-418. Dec.1950. 384 Z39
- 34585 HATCHER, E. S. J. Hormone effects in plants. *Discovery* 12:20-25. Jan.1951. 472 D63
- 34586 HILDITCH, T. P. Biosynthesis of unsaturated fatty acids in ripening seeds. *Nature [London]* 167:298-301. Ref. Feb.24,1951. 472 N21
- 34587 NASON, A., KAPLAN, N. O., and COLOWICK, S. P. Changes in enzymatic constitution in zinc-deficient *Neurospora*. (Abs.) *Amer. J. Bot.* 37:669. Oct.1950. 450 Am36
- 34588 NASON, A. The distribution and biosynthesis of niacin in germinating corn. *Amer. J. Bot.* 37:612-623. Ref. Oct.1950. 450 Am36
- 34589 OSIPOVA, O. P., and TIMOFEEVA, I. V. In regard to the chlorophyll-protein complex. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:979-981. Oct.11,1950. 511 P444A
- Experiments with beet leaf chloroplasts.
- 34590 OTTKE, R. C., and others. Isotopic acetate and isovalerate in the synthesis of ergosterol by *Neurospora*. *J. Biol. Chem.* 189(1):429-433. Mar.1951. 381 J824
- E. L. Tatum, L. Zabin, and K. Bloch, joint authors.
- 34591 PALAZZO, F. P. Genesis of organic acids of green plants from oxymethylene. (Abs.) (In Italian.) *Chim. e l'Indus.* 32:617. Dec.1950. 385 G43
- 34592 PEARSALL, W. H., and FOGG, G. E. The utilization of algae for industrial photosynthesis. *Gt. Brit. Food Invest. Food Sci. Abs.* 23:1-11. Ref. Jan.1951. 241 G792
- 34593 PETTINARI, C. On the toxicity of the seeds of *Araujia sericifera* Bert. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:233. 1949. 450 N92
- 34594 PLOUVIER, V. Sur la composition chimique des fruits de *Clerodendron trichotomum* Thunb. et *Calli-carpa japonica* Thunb. (Verbenacées). *Acad. des Sci. Compt. Rend.* 231:1546-1548. Dec.18,1950. 505 P21
- 34595 POLLARD, A., and KIESER, M. E. The pectate activity of apples. *J. Sci. Food & Agr.* 2:30-36. Ref. Jan.1951. 382 S012
- 34596 PROKOSHEV, S. M., and PETROCHENKO, E. I. Content and konversion of citric and malic acids in potato tubers. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:983-986. Oct.11,1950. 511 P444A
- 34597 QUILLET, M. Les glucides des tubercules de topinambour pendant leur évolution hivernale. *Acad. des Sci. Compt. Rend.* 232:542-543. Feb.5,1951. 505 P21
- 34598 SHAW, A. C., and TATCHELL, R. T. Distribution of vitamin C in the tip of the broad bean radicle. *Nature [London]* 167:116-117. Jan.20,1951. 472 N21
- 34599 SISAQIAN, N. M., BEZINGER, É. N., and KUVAEVA, E. B. Amino-acid composition of plastid proteins. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:987-990. Ref. Oct.11,1950. 511 P444A
- Experiments with sugar beet leucoplasts.
- 34600 SREENIVASAN, A., and WANDREKAR, S. D. Biosynthesis of vitamin C during germination. I. *Indian Acad. Sci. Proc. Sect. B* 32:143-163. Ref. Oct.1950. 513 In25B
- In legumes.
- 34601 STEHSEL, M. L., and WILDMAN, S. G. Interrelations between tryptophane, auxin, and nicotinic acid during development of the corn kernel. (Abs.) *Amer. J. Bot.* 37:682-683. Oct.1950. 450 Am36
- 34602 STEIN, W. H., and MOORE, S. Chromatography; some 50 years ago a Russian botanist devised a way of separating the pigments of a green leaf. *Sci. Amer.* 184(3):35-41. Mar.1951. 470 Sci25
- 34603 SWIFT, H. The desoxyribose nucleic acid content of plant nuclei. (Abs.) *Amer. J. Bot.* 37:667. Oct.1950. 450 Am36
- 34604 SZILVINYI, A. Redoxpotential und hefestoffwechsel. *Brauwissenschaft* 1951:8-12. Jan.1951. 390.8 B733
- 34605 TOLNAY, P. Determination de la teneur en chlorophylle de la feuille de tabac. *Rev. Internat. des Tabacs* 26(216):9-11. Ref. Jan.1951. 69.8 R324
- 34606 TONDEUR, R. Recherches chimiques sur les alcaloïdes de l'Erythrophleum. Bruxelles, Hayez, 1950. 52 p. (Publications de l'Institut National pour l'Étude Agronomique du Congo Belge. Hors Sér.) 391 T61

- 34607 TSUCHIYA, Y., and BABA, H. On the irritative odor emitted by *Dilsea edulis*. *Tohoku J. Agr. Res.* 1:103-105. Mar.1950. 22.5 T574
- 34608 ZELITCH, I., and ROSENBLUM, E. D. Distribution of N15 in *Clostridium pasteurianum*. (Abs.) *Amer. J. Bot.* 37:671. Oct.1950. 450 Am36
- 34609 ZOBL, K. Über die beziehungen zwischen chemischer zusammensetzung von pilzsporen und ihrem verhalten gegen erhitzen. *Sydowia* 4:175-184. Ref. Sept.30,1950. 450 Sy2

## FIELD CROPS

Includes articles on general agronomy and on crop varieties, breeding, cultural practices, and yield.

## General

- 34610 ARGENTINA. DIRECCION GENERAL DE FOMENTO AGRICOLA. Labor en el año 1949. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(16):35-68. (Cont.) Oct.1950. 9 Ar35
- Crop research.
- 34611 BALASUBRAHMANYAN, R. A note on the mixed cropping trials at Guntur. *Indian Cotton Growing Rev.* 4:173-177. July 1950. 72.8 In23
- 34612 BALÍABO, N. K. Grass-field crop rotation system of agriculture in irrigated districts. (In Russian.) *Sovet. Agron.* 8(11):13-26. Nov.1950. 20 So84
- 34613 BAYLOR, J. E. Field crop recommendations, 1951. *N. J. Agr. Col. Ext. L.* 47,12 p. Dec.1950. 275.29 N46L
- 34614 BEARD, D. F., and MARSHALL, W. Do certified seeds or crop varieties run out? *Seed World* 68(4):14,16. Feb.16,1951. 61.8 Se52
- 34615 BECKER-DILLINGEN, H. Pillensaatgut. *Saatgut-Wirt.* 2:276-277. Dec.1950. 61.8 Sa1
- 34616 BENOIST, C. Sur la répercussion de l'ensilage sur l'assolement. *Défense Agr. de la Beauce et du Perche* 48:34-36. Jan.27,1951. 14 D36
- 34617 BRUMMER, V. On the cultivation value of fodder sugar beet and the factors affecting it. (In Finnish.) *Siemenjulkaisu* 1950:147-156. 61.9 K48
- English summary.
- 34618 BRUMMER, V. Root crops. (In Finnish.) *Siemenjulkaisu* 1950:71-75. 61.9 K48
- English summary.
- 34619 CHEREMISINOV, G. A. Po michurinskomu puti (opyt peredovikov sel'skogo khoziaistva Kuznetskogo raiona) [On Michurin's track (Practices of leaders in agriculture in Kuznetsk District)]. Penza, Penzenskoe Obl. Izd-vo, 1950. 35 p. 33.31 C422
- Agronomy chiefly.
- 34620 EDINBURGH SCHOOL OF AGRICULTURE. Teaching unit guide to field experiments, demonstrations and farm crops. Edinburgh, 1950. 83 p. 103 Ed4G
- 34621 EIFRIG, H. Aufgaben und nutzen der saatgutuntersuchung. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:167. Feb.1,1951. 18 L2346
- 34622 FEUCHTER, Der wert des saatgutes. *Bad. Landwirt. Wchnbl.* 118:101-102. Feb.17,1951. 18 B142
- Use of certified and disinfected seed.
- 34623 FICKER, Sicherheit im zwischenfruchtbau. *Deut. Landwirt. Presse* 74:16-17. Jan.20,1951. 18 D482
- 34624 FRICKE, E. F. Agronomic research in New Zealand. Tasmania. Dept. Agr. *Tasmanian J. Agr.* 21:342-348. Nov.1,1950. 23 T182T
- 34625 GALILEE, M. On the plantations of western Galilee. (In Hebrew.) *Hassadeh* 31:28-32. Oct.1950. 26 H27
- 34626 GREVE. Erst dünger und saatgut — dann maschinen und schlepper. *Tech. f. Bauern u. Gärt.* *Ausg. A* 2:583-584. Oct.25,1950. 58.8 T223
- 34627 GULIAEV, A. N. Grass-field crop rotation system of agriculture—basis of high [field crop] yields [on Krasnyi Put' Collective Farm in Rostov Region]. (In Russian.) *Sovet. Agron.* 8(11):71-73. Nov.1950. 20 So84
- 34628 GUSSAK, V. B., DIMO, V. N., and PANKOVA, N. A. Effect of grass-field crop rotation on some properties of turfy-Podzolic soils in Moscow Region. (In Russian.) *Pochvovedenie* 1950:746-754. Dec.1950. 57.8 P34
- 34629 HAMY, A. L'expérimentation culturale. *Acad. d'Agr. de France. Compt. Rend.* 36:586-589. Oct.25/Nov.8,1950. 14 P215Bc
- Statistical method.



- 34630 HARVEY, C. Interactions in grass-legume plantings. *Iowa State Col. J. Sci.* 25:242-243. Jan.1951. 470 109  
Abstract of thesis (Ph. D.).
- 34631 HUGHES, H. D. What's new in crop husbandry. *Better Farming Methods* 23(3):64-65. Mar.1951. 58.8 B46
- 34632 KELLER, K. R. Relative efficiency of rectangular lattice designs using hop uniformity trial data. *Agron. J.* 43:93-96. Feb.1951. 4 Am34P
- 34633 LAUMONT, P. Les grands assolements de la céréalculture algérienne. *Acad. d'Agr. de France. Compt. Rend.* 36:583-586. Oct.25/Nov.8,1950. 14 P215Bc
- 34634 MCCALLA, A. G., and BOWSER, W. E. Cropping for profit and permanency. Ed. 3, rev. Alberta. Dept. Agr. Ext. Serv. B. 44,64 p. Aug.1950. 275.29 AL122
- 34635 OSVALD, H. Plant production in the Siljan area. (In Swedish.) *Lantbrtidskr. f. Dalarna* 1950:155-165. Oct.1950. 11 L29
- 34636 PIELEN, L. Sortenliste—sortenbereinigung. *Saatgut-Wirt.* 2:269-271. Dec.1950. 61.8 Sal  
Germany.
- 34637 ROWLAND, J. W. The use of perennial leys in farming rotations. *Farming So. Africa* 26(298):9-13. (To be cont.) Jan.1951. 24 So842
- 34638 SCHECK, H., and FETZER, G. Der saatgut wert und seine beeinflussung durch äussere faktoren. *Saatgut-Wirt.* 2:271-273. Dec.1950. 61.8 Sal
- 34639 SUKHATME, P. V. Assessment of additional food production. *India. Dir. Econ. & Statis. Agr. Situation* India 5:719-723. Jan.1951. 281.9 In23  
Estimation of yields in field experiments.
- 34640 TRAVAUX effectués en 1949 par les stations agronomiques. *France. Inst. Natl. de la Rech. Agron. Ann. Sér. A. Ann. Agron.* 1:529-661. Ref. Sept./Oct. 1950. 14 F8499
- 34641 WALTERS, S. W. Crop-rotation systems for the Caledon and Bredasdorp districts. *Farming So. Africa* 26(298):25-27. Jan.1951. 24 So842
- 34642 WELCH, F. J. Crop and fertilizer recommendations for Mississippi, 1951. *Miss. Agr. Expt. Sta. C.* 156,19 p. Nov.1950. 100 M69  
Includes varieties of field and pasture crops.
- Cereals**
- 34643 AKERMAN, A. How to obtain bigger crops of oats. (In Swedish.) *Lantmannen* 35:43-45. Jan.20,1951. 11 L234
- 34644 ALBRECHT, A. R. Estado actual de los trabajos de crianza de trigo en la Estación Experimental de Rafaela. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:169. 1950. 59.9 P41
- 34645 ALBRECHT, A. R. Rendimiento de nueve variedades de trigo y sus épocas óptimas de siembra en Rafaela. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:176-178. 1950. 59.9 P41
- 34646 ANDRÉS, J. M. Granos semivestidos, restos de un carácter ancestral del maíz. *Rev. Argentina de Agron.* 17:252-256. Ref. Dec.1950. 9 R327  
English summary.
- 34647 ARAÚJO, M. C. DE. Considerations on grain culture. (In Portuguese.) *Azores. Comis. Regulad. dos Cereais. B.* 7(13):99-102. First Semes.1951. 15 Az6
- 34648 ATKINS, I. M. Mustang oats. *Tex. Agr. Expt. Sta. B.* 728,10 p. Oct.1950. 100 T31S
- 34649 BAKER, M. L. Wheat production in Australia. *Nebr. Farmer* 93(3):28-29. Feb.3,1951. 6 N27
- 34650 BALLARI, C. P. Comportamiento de variedades de avena y cebada en Pico. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:235-244. 1950. 59.9 P41
- 34651 BALLARI, C. P. Ensayo de orientación con 8 variedades de T. durum en la Sub-Estación Experimental de Pico. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:197-198. 1950. 59.9 P41
- 34652 BAUMAN, L. F., and others. Experimental corn hybrids; 1950 tests. *Ill. Agr. Expt. Sta. B.* 543:75-99. Feb.1951. 100 IL6S  
R. W. Jugenheimer, C. M. Woodworth, D. E. Alexander, and B. Koehler, joint authors.
- 34653 BAUMAN, L. F. Performance of reciprocal crosses in corn. *Urbana, 1950.* 5 p. 59.22 B32  
Abstract of thesis - University of Illinois.
- 34654 BOMPARD, A. La riziculture en Espagne. *Bouches du Rhône Agr.* 23(1043):3-4. Jan.15,1951. 14 B662
- 34655 BRIGGILER, H. A. Comportamiento de cereales forrajeros en Rafaela. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:230. 1950. 59.9 P41
- 34656 BROWNE, E. B., and WELLS, J. C. A comparison of the performance of reciprocal test-crosses between inbred lines and a single-cross hybrid in maize. *South. Corn Impr. Conf. Rpt.* 9:36-38. Dec.1950. 59.9 So87
- 34657 BRUMMER, V. Barley. (In Finnish.) *Siemenjulkaisu* 1950:38-47. 61.8 K48  
English summary.
- 34658 BUCHNER, A., and HÖHENBERGER, F. Versuche über den anbau von braugerste im jahre 1949. *Brauwissenschaft* 1951:6-7. Jan.1951. 390.8 B733  
Germany.
- 34659 CAFFERA, R. Tipo industrial de los trigos incluidos en los Consejos Oficiales de Siembra. Análisis por subregiones y el total del área triguera desde el primer Consejo Oficial de Siembra de 1938, hasta el actual de 1950. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:123-132. 1950. 59.9 P41  
Includes discussion.
- 34660 CHABRILLÓN, A. L. Comportamiento de las variedades de trigo ensayadas por la Red Oficial en Tezanos Pinto, durante el trienio 1947-1949. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:170-175. 1950. 59.9 P41
- 34661 CHABRILLÓN, A. L. Comportamiento de variedades de avena, cebada y centeno, ensayadas por la Red Oficial en Tezanos Pinto, durante el trienio 1947/49. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:226-229. 1950. 59.9 P41
- 34662 CHARBONNEAU, A. La culture du millet. *Terre de Chez Nous* 23(2):11. Mar.7,1951. 7 T27
- 34663 DES ROTOIRS, V. F. Comportamiento de variedades de trigo en la Estación Experimental de Manfredi. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:179-185. 1950. 59.9 P41
- 34664 ELKONIN, N. G. Effectiveness of autumn and spring sowing of wheat in the foothill arid land of Tadzhikistan. (In Russian.) *Sovet. Agron.* 8(11):57-64. Nov. 1950. 20 So84
- 34665 ENGE, G. Comparative experiments with barley and oats. (In Swedish.) *Kalmar Läns Norra Hushållssk. Kvrtlskr.* 10:106-112. 1950. 11 K12
- 34666 ENGELHARD, J. Ce qu'il faut savoir du maïs hybride. *Paysan Franç.* 26(398):12-13. Feb.1951. 14 P29
- 34667 L'EXTENSION de la culture du maïs hybride se poursuit. *J. de la France Agr.* 6:1265,1268. Dec.15/21, 1950. 14 J829
- 34668 EYNDEN, G. P. A. VAN DEN. Experiments with corn in 1950. (In Dutch.) *Nieuwe Veldbode* 17:289-290. Jan.25,1951. 12 V542N  
Netherlands.
- 34669 FAIRCHILD, R. S. Comparative development of the embryos of inbred and hybrid maize. *Iowa State Col. J. Sci.* 25:203-205. Jan.1951. 470 109  
Abstract of thesis (Ph. D.).
- 34670 FAJERSSON, F. A new variety of spring wheat, Weibull's Pondus. (In Swedish.) *Agri Hortique Genet.* 8:119-152. 1950. 64.8 Ag8  
English summary.
- 34671 FENAROLI, L. Seed and plant introductions made by the Maize Experiment Station at Bergamo in the year 1949 (No. 49001 to 49317). (In Italian.) *Ann. della Sper. Agr. (n.s.)* 5(1,sup.):i-xxii. 1951. 16 An76  
English summary.
- 34672 FURRER, J. D. Know your hybrid. I. A half century of corn progress. *Nebr. Elect. Farmer* 5(3):6. Mar.1951. 335.8 N27
- 34673 GAMA, F. DA. C. Wheat in São Paulo. (In Portuguese.) *Lav. Arroz.* 4(47):15-16. Nov.1950. 59.8 L39



- 34674 GARBINI, S. E. Comportamineto de variedades de avena, cebada y centeno ensayadas en Pergamino. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:231-234. 1950. 59.9 P41
- 34675 GARBINI, S. E. Comportamiento de variedades de trigo en Pergamino. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:186-191. 1950. 59.9 P41
- 34676 GENTER, C. F. Effects of rates of planting on hybrids of different maturities. South. Corn Impr. Conf. Rpt. 9:27-30. Dec.1950. 59.9 So87
- 34677 GERMAN, R. The possibilities of corn culture in Italy. (In Italian.) Agenzia Romana Note e Inform. Agr. 12:1-4. Feb.15,1951. 281.8 Ag3
- 34678 GONÇALVES, P. A. Rice farms in Texas. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:118-120. July/Dec.1950. 9.2 R325  
Chiefly culture.
- 34679 GONDIM, E. DE C. Hybrid corn. (In Portuguese.) Azores. Comis. Regulad. dos Cereais. B. 7(13): 75-80. First Semes.1951. 15 Az6
- 34680 GRAFJUS, J. E. Pierre rye. S. Dak. Agr. Expt. Sta. B. 406,4 p. Jan.1951. 100 So82
- 34681 GRÊMIO DO MILHO COLONIAL PORTUGUÊS. Relatório e contas da direcção, 1949 [Report and accounts of the directorate, 1949]. Lisboa,1950. 20 p. 59.9 G86
- 34682 GROSS, F. C. Lower North Seed Wheat Competitions, 1950. So. Austral. Dept. Agr. J. 54:251. Dec. 1950. 23 So84
- 34683 HAAN, H. DE. Barley Improvement in Germany. (In Dutch.) Natl. Comt. v. Brouwergerst. Jaarb. (1951)15:50-53. Apr.1950. 390.9 N21
- 34684 HAAN, H. DE. The degeneration of varieties. (In Dutch.) Nieuwe Veldbode 17:287. Jan.25,1951. 12 V542N  
Wheat.
- 34685 HARVEY, P. H. Predicted versus actual yields of double crosses in North Carolina. South. Corn Impr. Conf. Rpt. 9:33-35. Dec.1950. 59.9 So87
- 34686 HERNAEZ, A. Notes on water requirements of rice. Philippines. Bur. Plant Indus. Plant Indus. Digest 13(6):20. June 1950. 25 P544P
- 34687 HICKMAN, B. Hybrids mean high profits. Carolina Co-op. 29(2):12-13,30. Feb.1951. 72.8 N81  
Corn.
- 34688 HUTCHCROFT, C. D., and ROBINSON, J. L. 1950 Iowa corn yield test. Iowa. Agr. Expt. Sta. B. P110: 690-736. Feb.1951. 100 Io9
- 34689 HUTTUNEN, E. Oats. (In Finnish.) Siemenjulkaisu 1950:47-57. 61.9 K48  
English summary.
- 34690 HUTTUNEN, E. Sisu oats. (In Finnish.) Siemenjulkaisu 1950:121-126. 61.9 K48  
English summary.
- 34691 HUTTUNEN, E. Spring wheat. (In Finnish.) Siemenjulkaisu 1950:29-38. 61.9 K48  
English summary.
- 34692 IZCUA, H. La hibridación del maíz al alcance de todos. Chacra 21(240):8. Nov.1950. 9 C34  
Also in Asoc. Gen. de Agr. B. 288:3,7. Feb.15,1951. 8 As52
- 34693 JEFFERSON, H. G. Corn in California; science and economics encourage Coast farmer to reduce his dependence on the Middle West for meat-animal fodder. Frontiers 15:76-78. Feb.1951. 410 F92
- 34694 KHITRINSKIY, V. F. Improving the productivity of spring wheat seeds. (In Russian.) Selekt. i Semen. 17 (10):5-9. Oct.1950. 61.9 Se5
- 34695 KIERSNOWSKI, S. El maíz en las chacras misioneras. Chacra 21(243):10-11. Feb.1951. 9 C34  
Culture.
- 34696 KINMAN, M. L. Composite sibbing versus selfing in the development of corn inbred lines. Iowa State Col. J. Sci. 25:273-275. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 34697 KOOPMAN, C. The culture of corn for grain. I-III. (In Dutch.) Overijsselsch Landbl. 33(1586):6;(1588): 5;(1589):4. (Concl.) Jan.6,20-27,1951. 12 Ov2
- 34698 KOSHAL, R. S. Report on the pilot scheme conducted in rabi of 1949-50 in the State of Bombay for estimating additional production due to G.M.F. measures. Bombay. Bur. Econ. & Statis. B. 4:1-9. July 1950. 269.54 Ec7  
Sorghum.
- 34699 KRELL, J. Improve Kansas hybrids. Kans. Agr. Student 27(2):17,32. Dec.1950. 276.8 K13  
Corn.
- 34700 KROTOV, A. S. Obtaining hybrid buckwheat seeds from a mixture of varieties. (In Russian.) Selekt. i Semen. 17(10):1-5. Oct.1950. 61.9 Se5
- 34701 LAMB, C. A. Changing conditions require new wheat varieties. Ohio Farm & Home Res. [Ohio Sta.] 35:75-76. Nov./Dec.1950. 100 Oh3S
- 34702 LAMB, C. A. Why is variety so important? (Abs.) Grain & Feed J. Consolidated 106(4):17. Feb.28, 1951. 298.8 G762  
Grain.
- 34703 LEIBOFF, R. O., and RATH, J. Dos nuevas variedades de trigo obtenidas en la Estación Experimental de Guatrache: Sureño M. A. y Cheg 161 x 8842. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada, y Centeno 4:159-163. 1950. 59.9 P41
- 34704 LEIBOFF, R. O. Rendimiento de 12 variedades de trigo y sus épocas óptimas de siembra en Guatrache. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:192-196. 1950. 59.9 P41
- 34705 LEIBOFF, R. O., and RATH, J. Rendimiento en forraje y grano de variedades de avena, cebada y centeno a través de cuatro años de ensayos en Guatraché. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:245-249. 1950. 59.9 P41
- 34706 LEIBOFF, R. O., and RATH, J. Trabajos de crianza en avena, cebada y centeno en la Estación Experimental de Guatraché. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:201-204. 1950. 59.9 P41
- 34707 LEMOS, O. R., and HAERTLEIN, H. Comportamiento industrial de material de crianza de trigo, en Pergamino. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:157-158. 1950. 59.9 P41
- 34708 LINJA-AHO, M. Winter rye. (In Finnish.) Siemenjulkaisu 1950:18-24. 61.9 K48  
English summary.
- 34709 LINJA-AHO, M. Winter wheat. (In Finnish.) Siemenjulkaisu 1950:24-29. 61.9 K48  
English summary.
- 34710 MAHAICONY/ABARY RICE DEVELOPMENT SCHEME. Report, 31st December, 1948. Georgetown, 1950. 25 p. 59.9 M27
- 34711 MANGELSDORF, P. C. The mystery of corn. Farm Q. 6:57-59,105-106,108,110,112,114. Spring 1951. 6 F22995
- 34712 MANTELLI, G. B. How to win the grain contest. (In Italian.) Avvenire Agr. 59:5-6. Jan.1951. 16 Av9  
Culture.
- 34713 MEDINA, L. J. Posible efecto del agua estancada sobre las plantas de arroz. Agro [El Valle] 5(14): 26-28. Ref. Sept./Oct.1950. 9.95 Ag83  
Venezuela.
- 34714 MISSISSIPPI AGRICULTURAL EXPERIMENT STATION. Corn hybrids and varieties in Mississippi, 1950 tests. Miss. Agr. Expt. Sta. B. 478,19 p. Jan.1951. 100 M69
- 34715 MISSISSIPPI AGRICULTURAL EXPERIMENT STATION. Dixie hybrids lead in 1950 corn variety tests. Miss. Farm Res. [Miss.Sta.] 14:5-8. Jan.1951. 100 M69Mi
- 34716 MONSARRO, F. B. Care with hybrid corn. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:161-162. July/Dec.1950. 9.2 R325
- 34717 NELSON, W. Beware of "maverick" seed. Gleaner 5:4. Jan.1951. 6 G472  
Unwarranted claims for grain varieties, particularly Saunders wheat.
- 34718 NEWELL, C. B. Know your barley varieties. n.p., 1950. 7 p. 59.21 N44
- 34719 NICHOLSON, G. E. Los tipos de maíz peruano. Serv. Coop. Interamer. de Prod. de Aliment. Inform. del SCIPA. Ser. para los Agr. 20:31-33. Sept.1950. 9.8 P4352
- 34720 OLSEN, H. A. Crianza de nuevas variedades de trigo en la Estación Experimental de Bordenave. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:164-166. 1950. 59.9 P41



- 34721 PALAVERŠIĆ, D. Effect of different date of planting on yield, length of growing season and other characteristics of corn. (In Croatian.) *Zavod za Ratarstvo*. [P.] 9/10:63b-69. 1950. 21.5 Z14  
English summary.
- 34722 PARMENOV, D. N. Rice sowing on the Dnieper flood plains. (In Russian.) *Sovet. Agron.* 8(11):82-85. Nov. 1950. 20 So84
- 34723 PARNEIX, P. Le maïs hybride peut être cultivé dans toute la France. *Terre Nouvelle* 90:5. Mar. 3, 1951. 281.8 T272
- 34724 PARODI, R. A. Comportamiento de cereales forrajeros en Manfredi y Carcano. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:250-257. 1950. 59.9 P41
- 34725 PARODI, R. A. Nueva variedad de "cebada negra" de buen comportamiento forrajero. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:205-208. 1950. 59.9 P41
- 34726 PARODI, R. A. Selecciones de centeno de Manfredi. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:219-221. 1950. 59.9 P41
- 34727 PENDLETON, J. W., and others. 1950 Illinois tests of corn hybrids in wide use. *Ill. Agr. Expt. Sta. B.* 544:103-136. Feb. 1951. 100 IL6S  
G. H. Dungan, B. Koehler, J. H. Bigger, A. L. Lang, R. W. Jugenheimer, and G. E. McKibben, joint authors.
- 34728 PERGAMINO, ARGENTINE REPUBLIC. CENTRO REGIONAL PAMPEANO DE INVESTIGACIONES AGROPECUARIAS. Memoria de la cuarta reunión de trigo, avena, cebada y centeno, 31 de mayo y 1 de junio de 1950 en la Estación Experimental Pergamino. *Pergamino*, 1950. 257 p. 59.9 P41
- 34729 POE, W. D. Dixie joins the Corn Belt! Phenomenal increases in corn yields herald the day when Virginia and the Carolinas can match Midwest in livestock production. *Prog. Farmer, Carolinas-Va.* Ed. 66(3):15, 147. Mar. 1951. 6 P945
- 34730 PORTER, K. B., and WHITFIELD, C. J. Sorghum varieties for the hard lands of the Texas Panhandle. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1332, 3 p. Feb. 20, 1951. 100 T31P
- 34731 PORTERES, R. Eleusine coracana Gaertner, céréale des humanités pauvres des pays tropicaux. *Inst. Franç. d'Afrique Noire. B.* 13:1-78. Ref. Jan. 1951. 515 D14
- 34732 PORTERES, R. Une céréale mineure cultivée dans l'Ouest Africain (*Brachiaria deflexa* C. E. Hubbard var. *sativa* nov. var.). *Agron. Trop.* 6:38-42. Jan./Feb. 1951. 26 Ag86
- 34733 POTOCHANAC, J. Experiments with rate and methods of planting with of corn. (In Croatian.) *Zavod za Ratarstvo*. [P.] 9/10:49-63a. Ref. 1950. 21.5 Z14  
English summary.
- 34734 PUTNAM, H. O. Some wheat variety problems. (Excerpts.) *Grain & Feed J. Consolidated* 106(5):23-24. Mar. 14, 1951. 298.8 G762
- 34735 REYES, J. V. Seed selection in rice. *Plowman* 6(3):22. Dec. 1950. 276.8 P72
- 34736 REYNOSO BELTRÁN, D. Maíz tras el ajo. *Tierra [Mexico]* 6:127. (Cont.) Feb. 1951. 8 T445
- 34737 RICHARDSON, T. C. The Southwest builds a new industry on sorghum grains. *Farmer-Stockman* 54(3):12, 59-60. Mar. 1951. 6 Ok45  
Includes varieties.
- 34738 RICHEY, F. D. Breeding for niacin content. *South. Corn Impr. Conf. Rpt.* 9:32. Dec. 1950. 59.9 So87
- 34739 ROGERS, J. S. The utilization of male-sterile inbred lines in the production of corn hybrids. *South. Corn Impr. Conf. Rpt.* 9:23-25. Dec. 1950. 59.9 So87
- 34740 ROMANENKO, V. I. Practices in developing Groznenskaiá 11 corn variety by controlled rearing. (In Russian.) *Selek. i Semen.* 17(10):69. Oct. 1950. 61.9 Se5
- 34741 SCOSSIROLI, R. An agronomical description of maize (*Zea mays*). (In Italian.) *Ann. della Sper. Agr.* (n.s.) 5(1, sup.):xviii-xli. 1951. 16 An76  
English summary.
- 34742 SENIN GARCIA, N. W. R. DE. Mejoramiento de la cebada cervicera. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:211-213. 1950. 59.9 P41  
Includes discussion.
- 34743 SHANK, D. B., and NACHTIGAL, G. E. South Dakota corn performance tests, 1950. *S. Dak. Agr. Expt. Sta. C.* 84, 16 p. Feb. 1951. 100 So82
- 34744 SOUTHERN CORN IMPROVEMENT CONFERENCE. Ninth report, Knoxville, Tennessee, and Lexington, Kentucky, August 26-29, 1950. *Beltsville, Md.*, 1950. 51 p. 59.9 So87
- 34745 STOA, T. E. New varieties of wheat; their advantages and limitations. *N. Dak. Agr. Expt. Sta. Bimón. B.* 13:95-100. Jan./Feb. 1951. 100 N813B
- 34746 TENNBERG, F. Eho, Sisu and Sol II oats in local tests. (In Finnish.) *Siemenjulkaisu* 1950:136-146. 61.9 K48  
English summary.
- 34747 VIANNAY, C. L'hybride d'Avrillé. *Agro d'Angers* 28:161-162. Sept./Oct. 1950. 105.3 An4  
Wheat variety.
- 34748 VILLAR, A. D. Trabajos de crianza en cebada forrajera que se realizan en la Estación Experimental de Oliveros. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:209-210. 1950. 59.9 P41
- 34749 VITTORIA, A. Present aspects of Brazilian agriculture: grain culture. (In Italian.) *Humus* 6(11):27-28. Nov. 1950. 16 H88
- 34750 WAGNER, S. Pflanzenbauliche und züchterische fragen beim brotgetreide. *Schweiz. Landwirt. Monatsh.* 29:4-23. Jan. 1951. 17 Sch93
- 34751 WALRAVE, J., and HIDDEMA, J. Influence of sowing on the wintering out of winter grains. (In Dutch.) *Nieuwe Veldbode* 17:288-289. Jan. 25, 1951. 12 V542N
- 34752 WATSON, E. R. Development of wheat varieties. *Farmers' Wk. [Perth]* 3(173):16. Nov. 16, 1950. 23 F227
- 34753 WILLIAMSON, J., and BALLARI, C. P. Comportamiento del centeno plico obtenido por la Sub-Estación Experimental de Pico. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:214-218. 1950. 59.9 P41
- 34754 WILSHAW, R. G. H. Agronomic and breeding research on rice, oil-palms, and cacao in Malaya. II. Oil-palms and cacao. *Empire J. Expt. Agr.* 18:276-280. Ref. Oct. 1950. 10 Em7
- 34755 WILTEN, W. Field experiments with barley in 1950. (In Dutch.) *Natl. Comt. v. Brouwergerst. Jaarb.* (1951) 15:65-74. 1950. 390.9 N21  
Netherlands.
- 34756 WOODFORDE, A. H., and TILT, J. Macquarie—a new Tasmanian wheat variety. *Tasmania. Dept. Agr. Tasmanian J. Agr.* 21:243-245. Nov. 1, 1950. 23 T182T
- 34757 ZIV, D. Growth conditions of maize sown on wet soil. (In Hebrew.) *Hassadeh* 31:6-7. Oct. 1950. 26 H27

#### Fiber Crops

- 34758 AMAOLO, M. O. Hay gran entusiasmo entre los agricultores para la siembra del algodón en todas las regiones de este cultivo. *Gac. Algodon.* 27(321):8-9. Oct. 31, 1950. 72.8 G11  
Argentina.
- 34759 BARBUT. Évolution, situation actuelle et perspectives d'avenir de la culture du cotonnier en Algérie. *Acad. d'Agr. de France. Compt. Rend.* 36:676-681. Nov. 29/Dec. 6, 1950. 14 P215Bc
- 34760 BARTOLOME, R. Observations on the culture of the major export crops of Costa Rica. *Philippines. Bur. Plant Indus. Plant Indus. Digest* 13(6):21-26. June 1950. 25 P544P  
Abaca, coffee and banana.
- 34761 BOEKHOLT, K. Rentabilität von kreuzungsleihen. *Deut. Landwirt. Presse* 74:21. (Concl.) Jan. 20, 1951. 18 D482
- 34762 BOYLSTON, H. G. The 1950 cotton contest for higher yields and better quality. *Clemson Agr. Col. S. C. Ext. C.* 359, 31 p. Jan. 1951. 275.29 So8E  
The Cotton Manufacturers' Association of South Carolina and the South Carolina Cottonseed Crushers' Association cooperating.
- 34763 CARPIO B., R. DEL. Progreso del algodón en Nasca; avance regional debida a la intervención del semillero oficializado de algodón Tanguis de Nasca. *Vida Agr. [Lima]* 27:997-999. Dec. 1950. 9.8 V66
- 34764 DICK, J. B. and EWING, E. C., JR. Cotton varieties compared in Yazoo-Mississippi Delta. *Miss. Farm Res. [Miss. Sta.]* 13(12):2-5. Dec. 1950. 100 M69Mi



- 34765 DICK, J. B., and others. Results of experiment station cotton variety tests, 1950. Miss. Farm Res. [Miss. Sta.] 14:4,8. Jan.1951. 100 M69Mi  
E. C. Ewing, Jr., J. F. O'Kelly, S. P. Crockett, L. Walton, and B. C. Hurt, Jr., joint authors.
- 34766 EGYPT. COTTON RESEARCH BOARD. The cottons of Egypt, by H. H. Hancock. Cairo, Govt. Press, 1950. 32 p. 72 H193  
Revised by A. A. Youssef, and O. M. Abdel-Hafez.
- 34767 EMPIRE Cotton Growing Corporation 1921 to 1950. Empire Cotton Growing Rev. 28:1-43. Jan.1951. 72.8 Em7
- 34768 ENGLEDOW, E. Cotton's desert kingdom. Prog. Farmer, Tex. Ed. 66(3):78A-78B. Mar.1951. 6 T311  
Dell City reclamation development in arid West Texas.
- 34769 FRIEDERICH, J. C. Verslag over de rassenproeven met vezelvlas (Fibre flax variety trials) gedurende de jaren 1948 en 1949. Nederlands Vlasinst. Meded. 14,55 p. Dec.1950. 73.19 W12M  
English summary.
- 34770 FRIEND, W. H. Cotton—companion crop with citrus. Tex. Farming & Citricult. 27(8):10. Feb.1951. 80 T31
- 34771 FROIER, K. Svalöf's spinning flax Kristina (0302). (In Swedish.) Lin 4:69-72. Oct./Nov.1950. 73.18 L63  
English abstract, p. 79-80.
- 34772 GANESAN, D. "Agronomic effect" on the quality of cotton seed. Indian Cotton Growing Rev. 4:167-172. July 1950. 72.8 In23
- 34773 GAUL. Anbau von hanf wieder wirtschaftlich. Bad. Landwirt. Wchnbl. 118:52-53. Jan.27,1951. 18 B142
- 34774 GREEN, J. M., and others. Cotton variety tests in Oklahoma, 1950. Okla. Agr. Expt. Sta. Mimeog. C. 208,7 p. Jan.1951. 100 Ok4M  
I. M. Parrott, N. M. Gober, Jr., and M. G. Keathley, joint authors.
- 34775 IBARRA GARCIA, P. Conveniencia de retrasar las siembras de algodón. Assoc. de Agr. de la Región Lagunera del Estado de Durango. B. de Inform. 3(24):1-3. Feb.15,1951. 8 As53
- 34776 ISAAC, S. A., JR., and HENDERSON, M. T. Inheritance of leaf pubescence in Upland cotton. Agron. J. 43:99. Feb.1951. 4 Am34P
- 34777 JOYNER, J. F., GANGSTAD, E. O., and SEALE, C. C. The vegetative propagation of Sansevieria. Agron. J. 43:128-130. Mar.1951. 4 Am34P
- 34778 KHRENNIKOV, A., and RUDNIKOV, V. Experiment in introducing planting for early "green" hemp in Ukraine. (In Russian.) Sotsialist. Sel'sk. Khoz. 21(6):44-50. Aug.1950. 281.8 So73
- 34779 KOSTYUCHENKO, A. D. From the practices of the leaders in flax culture. (In Russian.) Sovet. Agron. 8 (11):46-56. Nov.1950. 20 So84
- 34780 LÉVEQUE, P. F. Le chanvre. Potasse 25 (181):7-10. Jan.1951. 57.8 P84
- 34781 LOMBARD, P. Les recherches agronomiques concernant la culture du coton a l'Office du Niger. Coton et Fibres Trop. 5:143-162. (Concl.) Dec.1950. 73.8 C82
- 34782 NAZAROV, S. Organizing the harvesting of cotton. (In Russian.) Kolkhoz. Prolzvodstvo 10(9):19-20. Sept.1950. 281.8 K83
- 34783 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. The growing and harvesting of flax. North. Ireland. Min. Agr. L. 94,7 p. Jan.1951. 10 N81
- 34784 THE OPENING of the Cotton Research Station, Namulonge, Uganda. Empire Cotton Growing Rev. 28:44-48. Jan.1951. 72.8 Em7
- 34785 PASSOS, S. M. DE G. Instructions on cotton culture. (In Portuguese.) Rev. dos Mercados 1:32-33. Sept.1950. 286.8 R328
- 34786 RABÉCHAULT, H., and LOURD, J. Le chanvre-ortie Laportea canadensis (L.) Gaud. Coton et Fibres Trop. 5:165-188. (To be cont.) Dec.1950. 73.8 C82
- 34787 SAN MARTIN, L. Plan para la reactivación de la zona central del Chaco y el fomento algodoner. Gac. Algodon. 27(323):22-23,25. Dec.31,1950. 72.8 G11
- 34788 SOKOLOVA, N. F. Effect of cultivation of grassland on water regime of the cotton plant. (In Russian.) Akad. Nauk SSSR. Dok. 74:847-850. Oct.1, 1950. 511 P444A  
In crop rotation.
- 34789 STIVER, E. N., JONES, D. L., and JOHNSTON, J. R. Cotton defoliation tests at the Blackland Station, 1950. Tex. Agr. Expt. Sta. Prog. Rpt.1319,2 p. Feb.5, 1951. 100 T31P  
Also in Cotton Gin & Oil Mill Press 52(6):32. Mar.17, 1951. 304.8 C822
- Forage Crops and Grasses
- 34790 ABBOTT, J. B. Grassland farming brings new management problems. Better Crops Plant Food 35(2): 13-16. Feb.1951. 6 B46
- 34791 ADDISON, K. B. Effects of drought on the Nyamandhlovu veld. (Sum.) So. African J. Sci. 47:144-145. Dec.1950. 515 So84
- 34792 AFANAS'EVA, M. S. Autumn work on meadows and pastures. (In Russian.) Veterinariya 27(9):40-42. Sept.1950. 41.8 V6426
- 34793 AHLGREN, H. L. Meet summer pasture shortages with Sudan grass. Wis. Agr. Col. Ext. C. 224,rev., 8 p. July 1950. 275.29 W75B
- 34794 ALFARO P., S. El trebol "Hubam" una buena leguminosa para las tierras frias de Colombia. Agr. Trop. 7:9-10. Jan.1951. 26 Ag8
- 34795 AMOS, J. M. The effect of honeybees on the pollination of crimson clover. (Abs.) Va. J. Sci. (n.s.):1: 333. Sept.1950. 470 V81
- 34796 ANGELL, G. N. Want to raise Talent? It's a good variety of alfalfa, say growers and crop specialists. Oreg. Farmer 74:151,163. Mar.1,1951. 6 Or32
- 34797 ARAUJO, A. A. DE. Tropical kudzu—Pueraria phaseoloides (Roxb.) Benth. (In Portuguese.) Chacaras e Quintais 83:70-71. Jan.15,1951. 9.2 C34  
Culture.
- 34798 ARBEITSGEMEINSCHAFT ZUR FÖRDERUNG DES FUTTERBAUES. Tätigkeitsbericht für das Jahr 1950. Arbgeimeinsch. z. Förd. des Futterbaues. Mitt. 37, 48 p. 1950. 60.9 Ar1
- 34799 ARES, F. N. Operation and current conditions on the Jornada Experimental Range. In U. S. Forest Serv. Southwestern Forest and Range Experiment Station. Ranch Day, October 9, 1950, p.3-5. Tucson?1950. 1.9622 ScSo81
- 34800 ARES, F. N. Summer grazing of tobosa grass ranges. In U. S. Forest Serv. Southwestern Forest and Range Experiment Station. Ranch Day, October 9, 1950, p.10-11. Tucson?1950. 1.9622 ScSo81
- 34801 AZEVEDO, O. DE. Pastures and agronomical research. (In Portuguese.) Azores. Comis. Regulad. dos Cereais. B. 7(13):90-93. First Semes.1951. 15 Az6
- 34802 BAVLI, H. The importance of sown pasture. (In Hebrew.) Hassadeh 31:9-10. Oct.1950. 26 H27
- 34803 BAYLOR, J. E. The New Jersey Green Pasture Program. N. J. Agr. Col. Ext. B. 257,16 p. Jan. 1951. 275.29 N46
- 34804 BEVARD, G. E. Luttrell's pastures carry more cattle. West. Farm Life 53(5):5,24. Mar.1,1951. 6 R153  
Pasture management.
- 34805 BLÜMKE, F. Die bedeutung der waldweide für schafe und wald. Forstwirt. Holzwirt. 4:211-214. July 15,1950. 99.8 F7793
- 34806 BLÜMKE, S. Die schafweide im walde, vom standpunkte des forstmannes gesehen. Forstwirt. Holzwirt. 4:214-216. July 15,1950. 99.8 F7793
- 34807 BOBACK. Zur schafweide im walde. Forstwirt. Holzwirt. 4:288. Sept.1/15,1950. 99.8 F7793
- 34808 BODDY, H. Boosting butterfat production. West. Dairy J. 7(4):11,35-36. Feb.1951. 44.8 W524  
Pasture management.
- 34809 BODDY, H. On Smith Prairie, more than two pounds of alfalfa an acre is throwing away seed. Idaho Farmer 69:111,134. Feb.15,1951. 6 G282
- 34810 BOICE, H. G. Range management. Ariz. Cattlelog 6(5):29-31. Jan.1951. 43.8 Ar42
- 34811 BROWN, B. A. Alfalfa, queen of forage crops. Better Crops Plant Food 35:11-14,45. Jan.1951. 6 B46
- 34812 BUMPUS, E. D. The pasture legume problem in Southern Rhodesia. (Sum.) So. African J. Sci. 47:145. Dec.1950. 515 So84
- 34813 CARPENTER, F. R. Public land grazing: what the stockman wants. Natl. Wool Grower 41(2):21,41. Feb.1951. 45.8 N21N
- 34814 CHAUGULE, B. A. Bermuda grass (Hariaal) (Cynodon dactylon). Poona Agr. Col. Mag. 41:169-179. Ref. Nov.1950. 22 P79



- 34815 CHIAPPARINI, L. New American sorghum hybrids for forage and for kernels. (In Italian.) *Ann. della Sper. Agr.* (n.s.) 5:21-47. Ref. 1951. 16 An76 English summary.
- 34816 CLEGHORN, W. B. Pasture problems in native reserves in Mashonaland. (Sum.) *So. African J. Sci.* 47:141. Dec. 1950. 515 So84
- 34817 CLOVIS, J. L. Nothing but grass. *Kraftsman, Prod. Ed.* 1951:4-5. Jan./Feb. 1951. 44.8 K85 Grassland farming.
- 34818 COTTE, A. Fourrages annuels pour les régions méridionales. *Prog. Agr. et Vitic.* 1951:98-102, 120-128. (Cont.) Feb. 18/25-Mar. 4/11, 1951. 14 P94 France.
- 34819 DALTON, W. J. The establishment of leys. *Shropshire & Surrounding Co. Agr. News* 15:75,77,79. Dec. 1950/Feb. 1951. 10 Sh8
- 34820 DANNIK, S., PODGAJEVSKIĬ, M., and EGOROVA, N. Sandy sainfoin—a valuable perennial herb. (In Russian.) *Kolkhoz. Proizvodstvo* 10(9):26-27. Sept. 1950. 281.8 K83
- 34821 DAVIES, R. O., MILTON, W. E. J., and LLOYD, J. R. Pasture productivity in mid-Wales. II. Botanical changes in the experimental plots: palatability and "efficiency" of the swards. *Empire J. Expt. Agr.* 18:264-270. Oct. 1950. 10 Em7
- 34822 DER KHATCHADOURIAN, M. Les productions fourragères et les spéculations animales. *Agriculture [Paris]* 15(120):3-5. Jan. 1951. 14 Ag823 Forage culture and silage preparation.
- 34823 EVERSON, A. C. Analysis of a forage utilization method based on the weight of plant units. (Abs.) *J. Forestry* 49:92. Feb. 1951. 99.8 F768
- 34824 EVERSON, A. C. Grass yields of three differently treated range areas. *J. Range Mangt.* 4:93-94. Mar. 1951. 60.18 J82
- 34825 EYNDEN, G. P. A. VAN DEN. A few less commonly cultivated green forage crops. (In Dutch.) *Nieuwe Veldbode* 17:305-306. Feb. 1, 1951. 12 V542N Netherlands.
- 34826 FENNER, O. L. It pays—reseeding grass on prepared land. *Sheep & Goat Raiser* 31(5):12-14. Feb. 1951. 45.8 Sh3
- 34827 FILENI, E. Helianthus, forage over and under the soil. (In Italian.) *Terra e Sole* 102:53-54. Feb. 1951. 16 T273
- 34828 FOSTER, R. L. Super-pastures. *Capper's Farmer* 62(4):19,48. Apr. 1951. 6 M693 Grassland farming system in Missouri.
- 34829 FOX, M. Highlights of the suggested land grazing act. *Ariz. Cattlelog* 6(4):52-53. Dec. 1950. 43.8 Ar42
- 34830 FUSSELL, G. E. Pure strains of grass seed, an eighteenth century scheme. *Gt. Brit. Min. Agr. Agriculture* 57:536-539. Feb. 1951. 10 G79J
- 34831 GARRISON, C. S. National project insures more improved grass, legume seed. *Agr. Leaders' Digest* 32(3):26,28-29. Mar. 1951. 275.28 Am3 Varieties.
- 34832 GISCARD, R. Les fourrages vivaces; ressource inestimable pour l'élevage et la conservation des sols. *Fruits et Primeurs de l'Afrique du Nord* 21(221):19-20. Jan. 1951. 80 F9482
- 34833 GOLUBTSOV, K. F. Irrigated pastures—for the public livestock. (In Russian.) *Sotsialist. Zhivotnovod.* 12(11):18-23. Nov. 1950. 49 So71 Policy in connection with the Three-Year Plan of livestock development.
- 34834 GONZÁLEZ, A. DE J. Formación y conservación de los pastos. *Cuba Ganad.* 10(6):15-16. Feb. 1951. 49 C89
- 34835 GRIFFITHS, R. L. Pasture plants for the wheat farm. *So. Austral. Dept. Agr. J.* 54:180-183. Nov. 1950. 23 So84
- 34836 GROSS, D. L. Bromegrass in Nebraska. *Nebr. Agr. Col. Ext. E. C.* 191,8 p. Sept. 1950. 275.29 N272Ex
- 34837 GROVES, D. Band-seeding means better legume stands. *Successful Farming* 49(3):128,130. Mar. 1951. 6 Su12
- 34838 GUKASOV, A. I. Grass and legume culture in the irrigated vineyards. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):29-34. Oct. 1950. 95.8 V77
- 34839 HALLE, J. Besinliches zum vorschlag. *Deut. Landwirt. Presse* 74:3-4. Jan. 6, 1951. 18 D482 Pasture requirements.
- 34840 HARRISON, C. M. Simple pasture mixtures. *Hoard's Dairyman* 96:217. Mar. 10, 1951. 44.8 H65
- 34841 HARVEY, C., SCHEMBER, V. E., and POTTS, R. C. Bur-clover and related species. *Tex. Livestock J.* 10:42. Jan. 15, 1951. 49 T29
- 34842 HEIKINHEIMO, A. Herbage plants. (In Finnish.) *Siemenjulkaisu* 1950:76-112. 61.9 K48 English summary.
- 34843 HEIKINHEIMO, A. Tammisto alsike clover. (In Finnish.) *Siemenjulkaisu* 1950:128-130. 61.9 K48 English summary.
- 34844 HEIKINHEIMO, A. Tammisto timothy. (In Finnish.) *Siemenjulkaisu* 1950:126-128. 61.9 K48 English summary.
- 34845 HERE'S the latest in dairy farming research. II. *Kraftsman, Prod. Ed.* 8(6):13. Nov./Dec. 1950. 44.8 K85 Pasture management.
- 34846 HODGSON, R. E. Grassland farm crops as old as agriculture, and as practical today. *Better Farms* 10(3):6,15. Feb. 1951. 6 B462
- 34847 HODSON, E. A. How to plan your all-year grazing. *Ark. Farmer* 53(3):6,17. Mar. 1951. 6 Ar42
- 34848 HOLT, E. C., and POTTS, R. C. Green winter forage for the Southwest. *Crops & Soils* 3(6):15-17,26. Mar. 1951. 6 W55
- 34849 HUIDEKOPER, W. The story of the range. *Mont. Stockgrower* 23:6-7. Jan. 15, 1951. 49 M76
- 34850 HULL, A. C., JR., and VAUGHN, W. T. Kill undesirable native vegetation for successful range reseeding. U. S. Forest Serv. *Rocky Mountain Forest & Range Expt. Sta. Res. Note* 8,3 p. Jan. 1951. 1.9622 R2R313 Seed-bed preparation including brush removal.
- 34851 IURTSOVSKIĬ, M. A. *Trigonella foenum graecum*—a valuable forage plant. (In Russian.) *Sotsialist. Zhivotnovod.* 12(9):17-20. Sept. 1950. 49 So71
- 34852 IVANOV, P. K. Obtaining high yields of hay—most important problem of grass and legume culture in the fields. (In Russian.) *Sovet. Agron.* 8(11):65-70. Nov. 1950. 20 So84
- 34853 IVANOVSKIĬ, A. I. Pechora red clover. (In Russian.) *Selek. i Semen.* 17(10):20-24. Oct. 1950. 61.9 Se5
- 34854 JARNAGIN, R. A. Illinois covers State with legume-grass show. *Agr. Leaders' Digest* 32(3):10,12. Mar. 1951. 275.28 Am3
- 34855 JOHNSON, A. A., and SALTONSTALL, L., JR. Birdsfoot trefoil, where—why—what—how. *East. Feed Merchant* 2(3):32-33,52. Mar. 1951. 389.78 Ea7
- 34856 JOHNSON, H. A. Plants from South America and Africa show promise as summer grazing crops. *Miss. Farm Res. [Miss. Sta.]* 14(2):4. Feb. 1951. 100 M69Mi
- 34857 JOHNSON, R. G. Range education. *Mont. Stockgrower* 23:8,10-12. Jan. 15, 1951. 49 M76
- 34858 JONES, B. J. Trefoils bidding strongly in pasture legume use. *West. Feed & Seed* 6(2):22,36. Feb. 1951. 389.78 W52
- 34859 JONES, F. R. Seed setting performance in certain alfalfa populations. *Agron. J.* 43:151-152. Mar. 1951. 4 Am34P
- 34860 JOSEFSSON, A. Results of 10 years testing of Svalövs' feed sugar beet *Solid*. (In Swedish.) *Sveriges Utsädesför. Tidskr.* 60:434-439. 1950. 61.9 Sv23
- 34861 KELLY, J. T. Are you making pasture hay this year? *Tasmania. Dept. Agr. Tasmanian J. Agr.* 21:331-333. Nov. 1, 1950. 23 T182T Harvesting and curing.
- 34862 KING, B. Kentucky-31 fescue for grazing and seed. *Better Crops Plant Food* 35:19,45-46. Jan. 1951. 6 B46
- 34863 KLITZING, J. VON. Der goldene tritt der tiere. *Deut. Landwirt. Presse* 74:2-3. Jan. 6, 1951. 18 D482 Grassland management.
- 34864 KNOLL, M. Mehr futter vom grünland! (Excerpts.) *Tech. f. Bauern u. Gärt. Ausg. A* 2:602-603. Oct. 25, 1950. 58.8 T223
- 34865 LAUBER, B. Die verkarstung von alpfächen. *Auf der Alpe* 1951:1-3. Jan. 1951. 18 Au3
- 34866 LAUDE, H. M. Treatments to improve the emergence and stand of smilo grass [*Oryzopsis milia-cea*]. *J. Range Mangt.* 4:88-92. Mar. 1951. 60.18 J82
- 34867 LAVEZZINI, V. Growing of the alfalfa pasture. (In Italian.) *Avvenire Agr.* 59:1-3. Jan. 1951. 16 Av9
- 34868 LESPÉRANCE, R. La culture du Ladino dans le New-Hampshire. III. *Terre de Chez Nous* 23(1):6-7,19. Feb. 28, 1951. 7 Iz7



- 34869 LEUMER, A. Biologische wiesen- und weidenpflege; baum und strauch in der wiesenlandschaft. *Milcherzeuger* 8:43. Dec.1950. 43.8 M592
- 34870 LOVE, R. M. Range grass and reseeding experiments in California. *Calif. Agr. [Calif. Sta.]* 5(1):8-10. Jan.1951. 100 C12Cag
- 34871 LYNCH, P. B. Herbage production of short-rotation ryegrass; eight years' production records from a trial at the Marton Experimental area. *New Zeal. J. Agr.* 81:545,547-549. Dec.15,1950. 23 N48J
- 34872 MCDONALD, F. Sudan grass. *Ala. Farmer* 30 (4):6. Jan.1951. 276.8 AL1
- 34873 MCKENZIE, R. E. Winter feed with spring flooding. *Canad. Cattleman* 14(2):8-9,44. Feb.1951. 49 C16  
Pasture management.
- 34874 MCKNIGHT, H. T. What's new in grass farming. *Aberdeen-Angus J.* 32(7):57,98-99. Feb.1951. 43.8 Ab3  
Virginia.
- 34875 MANN, D. H. There's big money in pasture! *Utah Farmer* 71:32,52. Jan.18,1951. 6 D45
- 34876 MARTIN, W. W. How Montana manages its ranges. *West. Farm Life* 53(6):5,28. Mar.15,1951. 6 R153
- 34877 MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Certified Kenland red clover. *Md. Agr. Col. Ext. L. L-11,8 p.-folder.* Jan.1951. 275.29 M36EL
- 34878 MEDINA BLANCO, M. Estudio de la competencia vegetal en la alfalfa y de sus consecuencias. *B. de Zootec.* 6:391-397. Ref. Dec.1,1950. 41.9 So16
- 34879 METCALF, V. A suggestion for basic land management. *Natl. Wool Grower* 41(2):12-13,43-44. Feb.1951. 45.8 N21N  
Cattle and sheep ranges.
- 34880 MINOR, W. A. Grass: crop of plenty. *Washington, U. S. D. A., Off. Sec., 1951.* 14 p. 1.91 A2M66  
Talk at the Southern Great Plains Council Meeting, Amarillo, Tex., Mar. 1, 1951.  
Grasslands management and the National Grasslands Program.
- 34881 MINOR, W. A. Grasslands for abundance. *Washington, U. S. D. A., Off. Sec., 1951.* 8 p. 1.91 A2M66  
Talk at annual convention of the Association of Southern Agricultural Workers, Memphis, Feb. 6, 1951.
- 34882 MINOR, W. A. USDA, colleges "mobilize" for new grasslands program. *Agr. Situation* 35(2):2-3. Feb.1951. 1 Ec7Ag  
Similar title in *Calif. Cattleman* 1951:14. Mar.1951. 43.8 C12
- 34883 MONCRIEF, J. B., and WEIHING, R. M. Rapid, low-cost conversion from rice to improved pastures. *Tex. Agr. Expt. Sta. B.* 729,14 p. Oct.1950. 100 T31S
- 34884 MORITZ, F. L. New life from old soil. *Mo. Farmer* 43(2):3,10,19. Feb.1951. 6 M696  
Pasture Improvement Program, Webster County, Mo.
- 34885 MORRIS, J. J. Judicious management of the veld. (In Afrikaans.) *Wolboer* 42:14-15. Jan.1951. 45.8 W83
- 34886 MÜLLER, H. L. Ensayos comparativos de rendimiento con cereales forrajeros bajo condiciones de pastoreo. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:222-225. 1950. 59.9 P41  
Includes discussion.
- 34887 MÜLLER, K. Bessere weideleistungen durch fortschrittliche weidetechnik. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:82-83. Jan.18,1951. 18 L2346
- 34888 NESIUS, E. J. Allocation of farm resources for economic production and utilization of pasture in the Bluegrass Region of Kentucky. *Iowa State Col. J. Sci.* 25:316-322. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 34889 NIXON, W. M. Permanent tame pastures—a wise use of land. *Better Crops Plant Food* 35:24-26,41-44. Jan.1951. 6 B46
- 34890 NOHE, E. Rotklee so oder so. *Württemb. Wchnbl. f. Landwirt.* 118:173. Mar.3,1951. 18 W96
- 34891 O'KEEFFE, P. O. Irish Grassland Association. *Agr. Ireland* 8:35-37. Feb.1951. 10.5 Ag8
- 34892 OVADIA, J. Un fourrage nouveau pour l'Egypte: l'herbe de guinée (*Panicum altissimum* var. *jumentorum*). *Egypte Agr.* 48:142-145. Nov./Dec.1950. 24 Un32
- 34893 PALMER, P. Good pastures make the difference. *West. Dairy J.* 7(4):9,26-27. Feb.1951. 44.8 W524  
Management.
- 34894 PEARSE, C. K. The Jornada Experimental Range and the range research program of the Southwestern Forest and Range Experiment Station. In *U. S. Forest Serv. Southwestern Forest and Range Experiment Station. Ranch Day, October 9, 1950, p.1-2.* Tucson? 1950. 1.9622 ScSo81
- 34895 PEARSE, C. K. Measuring utilization of a black grama range. In *U. S. Forest Serv. Southwestern Forest and Range Experiment Station. Ranch Day, October 9, 1950, p.16-20.* Tucson? 1950. 1.9622 ScSo81  
*Bouteloua eriopoda.*
- 34896 PERSI, R. Care of permanent pastures for proper feeding of livestock. (In Italian.) *Campagna* 49:228-229. Dec.15,1950. 16 C152
- 34897 PIESTER, J. M., JR. Spanish sweetclover becomes popular in Southwest; turkey farmer finds soil improving crops profitable. *Tex. Livestock J.* 10:6. Jan.15,1951. 49 T29
- 34898 PONOMAREV, A. N. Daily procedure of alfalfa pollination. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:827-830. Oct.1,1950. 511 P444A
- 34899 POTUL'NITSKIĬ, P. M. On utilizing quickly-growing grasses in the grass-field crop rotations. (In Russian.) *Sovet. Agron.* 8(11):74-76. Nov.1950. 20 So84  
Special attention to *Lolium multiflorum*.
- 34900 PRESTON, A. L., JR. Extra acres from pasture crops. *Kraftsman, Prod. Ed.* 8(6):9. Nov./Dec.1950. 44.8 K85  
Management.
- 34901 PROCTER, J., and LEWIS, A. H. An experiment on the productivity of leys cut for hay. *Empire J. Expt. Agr.* 18:281-288. Oct.1950. 10 Em7
- 34902 QUICK, R. H. Foresters point out evils of woodland grazing. *W. Va. Conserv.* 14(11):9. Feb.1951. 279.8 W524
- 34903 RASEY, R. M. The pasture. *Nat. Mag.* 44:149-151,164. Mar.1951. 409.6 N214
- 34904 RECHENTHIN, C. A. Range grasses in the Southwest; threeawns, burrograss and saltgrass. *Cattleman* 37(10):40,42,44,46-48. Mar.1951. 49 C29  
*Aristida, Scleropogon and Distichlis.*
- 34905 REID, J. W. Clun forest farm. *Gt. Brit. Min. Agr. Agriculture* 57:513-517. Feb.1951. 10 G79J  
Improvement of an upland farm in England with particular reference to pasture improvement.
- 34906 REIS, A. Alfalfa for increasing agr. production (In Hebrew.) *Hassadeh* 31:8-9. Oct.1950. 26 H27
- 34907 RENUUS, W. Anlage von luzerneflächen. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:198. Feb.8, 1951. 18 L2346  
Culture.
- 34908 REYNOLDS, H. G. Drought in relation to grazing management of semidesert grassland ranges. In *U. S. Forest Serv. Southwestern Forest and Range Experiment Station. Ranch Day, October 9, 1950, p.12-15.* Tucson? 1950. 1.9622 ScSo81
- 34909 ROARK, C. Land of the South. 2. Land going to grass along the Piedmont; still there are acres idle and eroding, but many point to value of the clay loam lands through livestock and grass operations. *South. Livestock J.* 10(8):6-8. Mar.1951. 43.8 F66A
- 34910 ROSS, J. G. Homesteader brome grass. *S. Dak. Farm & Home Res. [S. Dak. Sta.]* 2:25-27. Winter 1951. 100 So82S
- 34911 SCHNEIDER, D. Ladino clover for Iowa. *Iowa State Watersheds B.* 1(7):10-11. Nov.1950. 290.8 Io9
- 34912 SCHOPPER, J. Futterbau und fütterung, ein schlüssel zum landwirtschaftlichen betriebserfolg. *Allgäuer Bauernbl.* 19:18-19. Jan.11,1951. 18 AL53
- 34913 SCRUGGS, C. G. Cash cropping beef; many Bastrop County farmers are forgetting row crops and turning to beef and pastures. *Prog. Farmer, Tex. Ed.* 66 (3):15. Mar.1951. 6 T311  
Chiefly pasture management.
- 34914 SEGERS, C. La campagne entreprise en Belgique. *Rev. de l'Agr.* 3:1289-1293. Dec.1950. 13 R322  
English summary.  
Grassland farming.
- 34915 SHACKLADY, C. A. Tropical grasses as concentrated feeding stuffs. *World Crops* 3:99-101. Mar.1951. 281.8 W892



34916 SILVEIRA, H. DE S. E. C. P. DA C. DA. Aids to the study of Azores pastures—São Jorge Island. (In Portuguese.) Azores. Comis. Regulad. dos Cereais. B. 7(13):59-74. (To be cont.) First Semes.1951. 15 Az6

34917 SLIJCKEN, V., and VYNCKE. Le ray-grass anglais, type à pâturer R. v. P. Meile, un facteur très important de l'amélioration de nos pâtures. Rev. de l'Agr. 3:1317-1331. Dec.1950. 13 R322  
English summary.  
Belgium.

34918 SMITH, J. G. Grass fires can be licked. Are dry pastures a hazard on your ranch? Try this method. Texans are using it to beat the menace. They call it the Lipscomb Plan. West. Live Stock 36(7):18-19,96-98. Feb.1951. 49 W523

34919 SMITH, R. B. Tabaquite grass, *Ischaemum aristatum*. Agr. Soc. Trinidad & Tobago. Proc. 50:335-340. Sept.1950. 8 T73

34920 SMITH, R. M., and CHANDLER, J. V. Tropical kudzu moves into Puerto Rico. Crops & Soils 3(6):12-14. Mar.1951. 6 W55

34921 SNOW, B. V. New York is going to grass. Dairyman's League News 35(6):3,21. Mar.20,1951. 44.8 D1432

34922 SOROKOUMOV, P. Harvesting and storage of forage root crops. (In Russian.) Veterinarifa 27(9):42-44. Sept.1950. 41.8 V6426

34923 SPRAGUE, M. A. How to build a good range now! N. J. Farm & Gard. 22(2):60-61. Feb.1951. 6 G162  
Poultry range.

34924 SPRINGFIELD, H. W., and REYNOLDS, H. G. Grazing preferences of cattle for certain reseeded grasses. J. Range Mangt. 4:83-87. Mar.1951. 60.18 J82

34925 STEWART, J. G. Lucerne. Gt. Brit. Min. Agr. Agriculture 57:540-541. Feb.1951. 10 G79J  
Chiefly culture.

34926 TABOR, P. Browntop millet [*Panicum ramosum*]. Agron. J. 43:100. Feb.1951. 4 Am34P

34927 THOMPSON, W. Kenland red clover. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 66(3):150. Mar.1951. 6 P945K

34928 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. New styles in grass, by W. M. Myers, M. A. Hein, and K. N. Gapen. Washington,1951. 4 p. 1.914 R2R11

34929 U. S. FOREST SERV. ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION. Manitou Experimental Forest; guide and general information for Range field day, September 13, 1950. Fort Collins,1950. 15 p. 1.9622 R2M31

34930 U. S. FOREST SERV. SOUTHWESTERN FOREST AND RANGE EXPERIMENT STATION. Ranch Day, October 9, 1950. Tucson?1950. 26 p. 1.9622 S3So81  
Program, Tenth Annual Ranch Day. Chiefly range management.

34931 VACCHERI, G. Cultivation of pasture legumes. (In Italian.) Campagna 49:227-228. Dec.15,1950. 16 C152

34932 VALENTINE, K. A. The influence of water distribution on the grazing capacity of range land. In U. S. Forest Serv. Southwestern Forest and Range Experiment Station. Ranch Day, October 9, 1950, p.21-24. Tucson? 1950. 1.9622 ScSo81

34933 VERDEYEN, J. Les prairies pâturées; le morcellement et les soins d'entretien. Rev. de l'Agr. 3: 1406-1419. Dec.1950. 13 R322  
English summary.

34934 WASSENAAR, T. Farm with grass: Africa's surface gold. Veldtrust 11(11):26-30. (To be cont.) Nov.1950. 56.8 V54

34935 WEINMANN, H. Productivity and nutritive value of star grass [*Cynodon plectostachyum*] pastures. (Sum.) So. African J. Sci. 47:143-144. Dec.1950. 515 So84

34936 WILSON, A. S. B. Fodder beet: from seedbed to harvest. Farmers Wk. [London] 34(10):59,61. Mar.9, 1951. 10 F2226

34937 ZALKIND, F. L. Sudangrass [*Sorghum vulgare sudanense*]—a valuable forage crop. (In Russian.) Selekt. Semen. 17(10):25-30. Oct.1950. 61.9 Se5  
Culture chiefly.

# Oil Crops

34938 ANDERSSON, G., and OLSSON, G. Field experiments with *Camelina sativa*. (In Swedish.) Sveriges Utsädesför. Tidskr. 60:440-458. Ref. 1950. 61.9 Sv23  
English summary.  
Oil plant.

34939 ARGIKAR, G. P. Breeding of safflower in the Bombay State. Poona Agr. Col. Mag. 41:192-194. Nov. 1950. 22 P79

34940 BAYER, G. Erfolgreiche sojabohnenkultur in pflanzengemeinschaften. Nat. u. Nahr. 4(21/22):20-22. Nov.1950. 80 N218

34941 BJØRKLUND, C. M., and ØRUD, I. Culture of oil plants. (In Norwegian.) (Excerpts.) Norsk Landbr. 17:33-36. Jan.19,1951. 11 N8122

34942 BUNTING, E. S. Linseed. World Crops 3:95-98. Mar.1951. 281.8 W892

34943 CURBELO, L. Cultivo del maní. Rev. Ganad. [Habana] 11(3):20-22. Mar.1951. 49 R321

34944 DEE, W. E. Purpose of tung cover crops. Amer. Tung News 2(2):10. Feb.1951. 307.8 Am33

34945 DOMINGO, W. E. Castor beans for peace or war. Reclam. Era 37:45-46,50. Mar.1951. 156.8 R24

34946 FUELLEMAN, R. F., and others. Soybean yields in 1949 variety trials. Ill. Agr. Col. Ext. C. 669, 4 p. Nov.1950. 275.29 IL62C

W. L. Burlison, C. H. Farnham, G. E. McKibben, and P. E. Johnson, joint authors.

34947 GUÉRARD, R. La régénération de la palme-raie dahoméenne et l'accroissement de la production de l'huile et des amandes de palme. Agron. Trop. 6:66-71. Jan./Feb.1951. 26 Ag86

34948 HEISER, C. B., JR. The sunflower among the North American Indians. (Abs.) Amer. J. Bot. 37:662. Oct.1950. 450 Am36

34949 HOLMBERG, S. A. The possibilities of growing soy bean in Sweden. (In Swedish.) Lantbruk. Tidskr. 89:460-468. 1950. 104 Sw3  
English summary.

34950 JUL R., G. Maravilla; cuidados culturales después de la siembra. II. Agrario 15(417):10-12. Oct. 1950. 9.3 Ag85

34951 KELLENBARGER, S., ALBROOK, R. L., and HARRINGTON, A. H. Safflower; agronomic, processing and economic data. Wash. Agr. Expt. Sta. B. 521,22 p. Jan.1951. 100 W27E

Growing safflower in Washington, by S. Kellenbarger, p. 1-7; Industrial processing of safflower seed for oil, by R. L. Albroom, p. 8-12; The economic feasibility of safflower production in eastern Washington, by A. H. Harrington, p. 13-22.

34952 LUTIKOV, I. Extensive introduction of sunflower varieties with high content of oil into production. (In Russian.) Kolkhoz. Proizvodstvo 10(9):23-24. Sept. 1950. 281.8 K83

34953 MANZ, B. Safe ways with soybeans. Crg. Farmer 2(7):28-31. Feb.1951. 57.8 Or3

34954 ROBERTS, J. A., and PRYKE, P. I. Soybeans—Victorian experiments. Victoria. Dept. Agr. J. 49:13-17. Jan.1951. 23 V66J  
Chiefly varieties.

34955 SAUGER, L., and TOURTE, R. Contribution à la technique des essais culturaux au Sénégal; forme et dimensions des parcelles; nombre de répétitions. Agron. Trop. 6:29-37. Jan./Feb.1951. 26 Ag86  
Chiefly on peanuts.

34956 TIPPANNAVAR, M. B. Agronomic improvements in the cultivation of groundnut crop in Karnatak. Poona Agr. Col. Mag. 41:205-210. Nov.1950. 22 P79

34957 TKATCHENKO, B. La culture du ricin en Russie. Potasse 25:35-36. Feb.1951. 57.8 P84

34958 VALLE, O. Experiences from the earliest practical cultivations of winter turnip rape in Finland. (In Finnish.) Siemenjulkaisu 1950:156-175. 61.9 K48  
English summary.

34959 WU, C. C., and LI, L. Y. The performance of the tea-oil plant, *Thea oleosa* in Kushan, Foochow. (In Chinese.) Fukien Agr. J. 11:109-118. June 1950. 22.5 F95  
English summary.



Sugar Crops

- 34960 BALCH, R. T., BROEG, C. B., and LAURITZEN, J. I. Effect of burning on the deterioration of sugar cane under Louisiana conditions. U. S. D. A. Tech. B. 1021, 22 p. Ref. Nov. 1950. 1 Ag84Te
- 34961 BATES, G. Ratooning in the Cairns district. Queensland. Bur. Sugar Expt. Sta. Cane Growers' Q. B. 14:66-68. Oct. 1, 1950. 65.9 Q3C
- 34962 BOISSART, P. La culture de la canne à sucre et la sucrerie de canne à la Martinique. Rev. Internat. des Prod. Colon. 26(256):3, 5-6. Jan. 1951. 286.8 R326
- 34963 BUZACOTT, J. H. Varietal changes in the Cairns District, 1933-49. Queensland. Bur. Sugar Expt. Sta. Cane Growers' Q. B. 14:60-65. Oct. 1, 1950. 65.9 Q3C
- 34964 CLEMENTS, H. F. La administración de los cañaverales. II. Asoc. Gen. de Agr. B. 286:3, 7. Jan. 15, 1951. 8 As52
- 34965 GONZALEZ RIOS, P. Comportamiento de algunas de las nuevas cañas de Barbados en Puerto Rico. Actualidades 1951:27-35. Jan. 1951. 65.9 As52
- 34966 HAWAIIAN SUGAR PLANTERS' ASSOCIATION. EXPERIMENT STATION COMMITTEE. 1950 report. Honolulu? 1950? 59 p. 100 H31R
- 34967 JEX, W. F. C. Seventh Congress of the International Society of Sugar Cane Technologists held in Brisbane, Australia, 11th - 16th September, 1950. So. African Sugar J. 34:781, 783, 785, 787, 789, 791, 793. Dec. 1950. 65.8 So8
- Chiefly sugarcane culture in Australia.
- 34968 KÜPPERS, G. A. Die topinambur im examen. Saatgut-Wirt. 2:273-275. Dec. 1950. 61.8 Sa1
- 34969 KWONG, K. H., and others. Sugarcane varietal tests of 1949-50. (In Japanese.) J. Sugarcane Res. 4:307-321. Nov. 1950. 65.8 J822
- W. Y. Wu, B. L. Loo, S. T. Liu, and C. L. Fu, joint authors.
- English summary.
- 34970 MAL'CHENKO, V. Harvesting of sugar beets. (In Russian.) Kolkhoz. Proizvodstvo 10(9):17-18. Sept. 1950. 281.8 K83
- 34971 MOLLER ARNOLD, E. Las fallas mas frecuentes que impiden un mejor éxito en los cultivos de betarraga sacarina. Campesino [Santiago] 83:47-48. Jan. 1951. 9.3 So12
- 34972 MORRISON, C. J. Some other aspects of Barbadian agriculture; the sugar industry as the chief source of income for Barbados. Farmer [Kingston] 54:180-182. Aug./Sept. 1950. 8 J223
- Sugarcane breeding and varieties.
- 34973 NAST, K. Einkeimige zuckerrübensaat bewährt sich auch bei uns. Württemb. Wchnbl. f. Landwirt. 118:137-138. Feb. 17, 1951. 18 W96
- 34974 QUEENSLAND. BUR. OF SUGAR EXPERIMENT STATIONS. Fiftieth annual report, 1950. Brisbane, 1950. 54 p. 65.9 Q3
- 34975 RIOLLANO, A. Cane cultivation in Puerto Rico. Sugar 46(2):42-45. Ref. Feb. 1951. 65.8 F11
- 34976 ROBBINS, W. T. Cane growing in Australia; some reflections on current practice. So. African Sugar J. 34:805, 807, 809, 811, 813, 815. Dec. 1950. 65.8 So8
- 34977 VALLANCE, L. G. The effect of variations in rainfall on C.C.S. in high rainfall areas. Queensland. Bur. Sugar Expt. Sta. Cane Growers' Q. B. 14:55-59. Oct. 1, 1950. 65.9 Q3C
- Sugar content of cane.
- 34978 WANDEL, G. Anbau und verwertung von topinambur. Nat. u. Nahr. Ausg. B 4:121-125. Nov. 1950. 80 N218B
- 34979 ZANNONI, I. Rise and development of sugar beet culture in Piedmont. (In Italian.) Cron. Econ. 94:23-25. Nov. 30, 1950. 280.8 C882

Tobacco

- 34980 BOLSUNOV, I. Étude des formes tétraploïdes chez les tabacs "Nicotiana rustica L." et de leur valeur économique. Rev. Internat. des Tabacs 26(216):19-20. Jan. 1951. 69.8 R324
- 34981 BRUNELLI, A. A. Cosecha y curación de tabacos oscuros suaves. Chacra 21(243):62. Feb. 1951. 9 C34
- 34982 CORBETT, G. The care and management of tobacco seed-beds. Countryman [Nicosia] 5(2):14-15. Feb. 1951. 25 C83
- 34983 FITZNER, A. H. South Carolina money crop. Prof. Gard. 3:30-32. Feb. 1951. 80 P945
- Tobacco.

- 34984 HAWKS, S. N., and BENNETT, R. R. Bigger yields of better tobacco. South. Planter 112(2):14-15. Feb. 1951. 6 So89
- 34985 LEWIS, J. M., and MATTISON, J. R. Tobacco plant production in South Carolina. Clemson Agr. Col. S. C. Ext. C. 291, rev., 18 p. Oct. 1950. 275.29 So8E
- 34986 MEISNER, F. Zurück zum qualitäts-tabakbau. Bad. Landwirt. Wchnbl. 118:103-104. Feb. 17, 1951. 18 B142
- 34987 VEN, R. VAN DER. Tobacco culture in Switzerland. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13(10, sup.):123-141. Nov. 1950. 86 N384

HORTICULTURAL CROPS

Includes articles on general horticulture, and on varieties, breeding, cultural practices, and yield.

General

- 34988 BERNACCIA, E. From the old smudge fires to artificial wind to infrared rays: control of frost. (In Italian.) Terra e Sole 102:44-45. Feb. 1951. 16 T273
- 34989 BOOTH, C. E. Try sphagnum moss for seed germination in flats. Org. Gard. 18(2):32-33. Feb. 1951. 56.8 Or3
- 34990 BRASE, K. D. The nurse-root graft; an aid in rootstock research. Farm Res. [N. Y. State Sta.] 17:16. Jan. 1951. 100 N48A
- 34991 BRISEBOIS, D. Défense antigrêle et pluie artificielle. Soc. d'Hort. de la Haute-Garonne. Ann. (ser. 5) 14:184-188. Apr./May 1950. 86 So194
- 34992 CAVADINI, L. L'arte del giardiniere [The art of the gardener]. Ed. 2, rev. and enl. Milano, Hoepli, 1951. 520 p. 90.1 C31
- 34993 DULLFORCE, W. Labelling of garden plants. Nurseryman & Seedsman 112:394. Feb. 8, 1951. 80 N933
- 34994 FIERA DI BOLOGNA. II mostra nazionale prodotti ortofrutticoli invernali, Catalogo ufficiale [II National Winter Fair of Horticultural Products, official catalog]. Bologna, 1950. unpag. 16 F46
- 34995 GARDNER, V. R. Basic horticulture. Rev. ed. New York, Macmillan, 1951. 465 p. 90.4 G17
- 34996 GIBBS, L. C. It's time to start planning your home garden for 1951. N. Mex. Agr. Col. Ext. News 31(2): 5. Feb. 1951. 275.29 N463Ex
- 34997 HARTH TERRE, L. Concepto económico de horticultura, de su importancia y de su necesidad. Serv. Coop. Interamer. de Prod. de Aliment. Inform. del SCIPA. Ser. para los Agr. 20:41-44. Sept. 1950. 9.8 P4352
- 34998 HIERONYMUS, A. M. Plant propagation by layering. Hawaii Farm & Home 14:23. Jan. 1951. 25 H3191
- 34999 HONG KONG. SUPERINTENDENT OF GARDENS. Annual report for the period ended the 31st March 1950. n.p., 1950. 10 p. 87 H752
- 35000 JACOBI, E. F. Instruction, research and information in Denmark and Sweden. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13(10, sup.):222-250. Nov. 1950. 86 N384
- Horticulture.
- 35001 KEMMER, W. Die baumschulkontrolle in der Schweiz. Deut. Baumsch. 3:6-7. Jan. 1, 1951. 80 D486
- 35002 KORTMANN-FELS, E. Die bebauung des bäuerlichen hausgartens. VI. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:327-328. Mar. 1, 1951. 18 L2346
- 35003 KUKURUZENKO, N. A. Iŭnye michurinskij [Young Michurinites]. Sartov, Saratovskoe Obl. Gos. Izd-vo, 1950. 53 p. 90.41 K95
- Fruit culture and school gardening.
- 35004 LAAN, E. VAN DER. Horticultural research at English experiment stations. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13(10, sup.):312-316. Nov. 1950. 86 N384
- 35005 LAUMONNIER, R. Angers et son centre horticole. B. des Engrais 22:144-146. Oct. 1950. 57.8 B87
- 35006 LERA DE ISLA, A. Toda escuela campesina debe tener su huerto escolar. Agricultura [Madrid] 20(225):18-20. Jan. 1951. 15 Ag84
- 35007 LOWE, D. The horticultural chaos. Farmers Wk. [London] 34(7):49. Feb. 16, 1951. 10 F2226
- The serious position of British horticulture.
- 35008 MEYER ZU EISEN, L. Die bebauung des bäuerlichen hausgartens. III. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:249. Feb. 15, 1951. 18 L2346



- 35009 MILLIGAN, M. C. Learn how to build a garden in the desert. *Org. Gard.* 18(3):34-35. Mar.1951. 56.8 Or3
- 35010 MINGUZZI, L. Seed production. (In Italian.) *Humus* 6(12):28. Dec.1950. 16 H88
- 35011 MOFFETT, B. W. All-America Selections for 1951 are announced; five new vegetables and two new flowers receive coveted awards. *Farm & Gard.* [Watertown] 1951:1,5. Jan.6,1951. 6 F234
- 35012 MOSER, W. Aus der geschichte des Gartnermeisterverbandes beider Basel. *Gartnermeister* 54:10-13. Jan.11,1951. 80 G1939
- 35013 NEUDECKER, J. Kulturtechnische versuche am moorhof in Moosburg. *Kärntner Bauer* 100:469-470. Dec.20,1950. 19 K14
- 35014 NEW YORK (CITY) PUBLIC LIBRARY. Planning & planting your garden; a selected list of books. New York,1950. 14 p. 241 N48P
- 35015 NITRATE CORPORATION OF CHILE. Successful gardening. Ed. 2. London,1950. 40 p. 90.3 N63
- 35016 OMPS, A. R. The V.P.I. Student Hort Club and the horticultural industry. *Va. Fruit* 39(2):59-61. Feb.1951. 81 V81B
- 35017 PHILIPPI, E. Qualitätsgarantie für junge obstbäume und beerenobststräucher. *Obstbau* 69:172-173. Nov.1,1950. 80 Ob73
- 35018 PLASSCHE, A. W. VAN DE. Horticulture in Switzerland. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13(10,sup.):7-49. Nov.1950. 86 N384
- 35019 QUEENSLAND ACCLIMATISATION SOCIETY. The eighty-fourth report from 1st July, 1949 to 30th June, 1950. Brisbane,1950. 10 p. 410.9 Q3R
- Horticultural research.
- 35020 RAGONESI V., C. El huerto. *Agr. Trop.* 7:11-14. Jan.1951. 26 Ag8
- 35021 SANG, E. A season in an organically managed garden. I. *Org. Gard.* 18(3):62-66. Mar.1951. 56.8 Or3
- 35022 SECRETT, F. A., and RUSSELL, J. L. Horticulture as a career. *Roy. Hort. Soc. J.* 76:6-18. Jan. 1951. 84 L84J
- 35023 UNION OF SOUTH AFRICA. DEPT. OF AGRICULTURE. Registered nurseries and dealers in plants and trees, 1950-51. Pretoria,1950. 25 p. 225 So823
- 35024 VOGEL, F. Bodenschätzung und ackerschätzungsrahmen in ihrer bedeutung für die baumschule. *Deut. Baumsch.* 3:19-21. Jan.1,1951. 80 D486
- 35025 WAGENINGEN. INSTITUUT VOOR TUINBOUW-TECHNIEK. Jaarverslag [Annual report of the Institute for Horticultural Engineering]. 1949. Wageningen,1950? 40 p. 86 W123J
- 35026 WALLA, M. Gärtnerische erlebnisse in Dänemark. Gartenbauwirtschaft [Wien] 1950:277-278. Dec. 25,1950. 80 G1936
- 35027 WELDON, G. P. Changing trees from bad to good varieties by grafting. *Calif. Farmer*, North. Ed. 194:176-177. Feb.24,1951. 6 C126
- 35028 WOODMAN, R. M. A survey of the Horticultural Research Station, 1922-1949. Cambridge U. Sch. Agr. Mem. 22:5-9. Feb.1951. 103 C14M
- Fruits--General**
- 35029 BASIN, M. Z. For further development of orchard cultivation by factory workers and employees. (In Russian.) *Sad i Ogorod* 1950(12):24-25. Dec.1950. 80 Sa13
- 35030 BEAR, E. M. Fruit tree census will help orchard management. *Grower* [London] 35:332-333. Feb.17, 1951. 286.83 M34
- 35031 BLIN, H. Anomalies dans la culture des arbres fruitiers. *Nature* [Paris] 3189:13-14. Jan.1951. 473 N21
- 35032 BLOM, A. Fruit culture under glass. (In Dutch.) *Betuws Tuinbouwb.* 8(23):4-5. (Cont.) Feb.3, 1951. 80 B464
- 35033 BOHL, C. Ventajas que ofrecen los viveros cooperativos fruitales. *Serv. Coop. Interamer. de Prod. de Aliment.* Inform. del SCIPA. Ser. para los Agr. 20:49-50. Sept.1950. 9.8 P4352
- Peru.
- 35034 BOUDEWIJN, C. Fruit culture in 1950. (In Dutch.) *Fruitteelt* 40:976-977. Christmas 1950. 86 N28
- 35035 CALVET, C. Pour récolter de beaux fruits commençons par bien planter. *Paysan Franç.* 26(398):13-14. Feb.1951. 14 P29
- 35036 CASSIN, J. Qu'est-ce que le clone? Fruits et Primeurs de l'Afrique du Nord 21(221):21-22. Jan.1951. 80 F9482
- 35037 CURTIS, C. H. Robert Hogg and his "fruit manual." *Gard. Chron.* 128:246. Dec.30,1950. 80 G162
- 35038 DELMAS, H. G. Quelques réflexions sur l'établissement d'un verger. *Prog. Agr. et Vitic.* 1951: 103-105. (Cont.) Feb.18/25,1951. 14 P94
- 35039 DILLON, R. S., JR. Those border trees. *Mountaineer Grower* 21(185):41-42. Feb.1951. 80 M86
- Fruit culture.
- 35040 DUBROVA, P. F. Organizatsiia sadovodstva v kolkhozakh [Organization of orchard cultivation on collective farms]. Moskva,Gos. Izd-vo Selkhoz Lit-ry,1950. 439 p. 93.28 D85
- 35041 DUKHANIN, K. S. Organization of large commercial orchards on collective farms in Moscow Region. (In Russian.) *Sad i Ogorod* 1950(11):14-19. Nov.1950. 80 Sa13
- 35042 ENIKEEV, KH. K. More rapid introduction of new [fruit and berry] varieties into production. (In Russian.) *Sad i Ogorod* 1950(11):11-14. Nov.1950. 80 Sa13
- Developed at Moskovskafä Plodov-Ägodañafä Opyññafä Stanññafä.
- 35043 FEDOTOV, A. V. Sovkhoz "15 let Oktiañrñä" [15 let Oktiañrñä State Farm]. Moskva,Gos. Izd-vo Selkhoz Lit-ry,1950. 180 p. 281.179 F31
- Includes fruit culture.
- 35044 FEIST, H. Von der pflege und dem schnitt der obstbäume. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:173. Feb.1,1951. 18 L2346
- 35045 GAYFORD, G. W. Budding stone fruits. *Victoria. Dept. Agr. J.* 49:23. Jan.1951. 23 V66J
- 35046 GREK, A. V. Fruit and berry orchard on the sandy soils in Moscow suburbs. (In Russian.) In Kobrin, B., ed. *Sadovody-michurinsy*,p.6-77. Moskva?Moskovskii Rabochii,1950. 93.28 K79
- 35047 GULDENER, H. VAN. Fruit in painting during the centuries. (In Dutch.) *Fruitteelt* 40:978-980,983. Christmas 1950. 86 N28
- 35048 HANSEN, C. M. Fighting frost. *Amer. Fruit Grower* 71(3):14,28-30. Mar.1951. 80 G85
- 35049 HASTINGS, S. W. The fruit grower, what a nan! *Va. Fruit* 39(2):57-58. Feb.1951. 81 V81B
- 35050 HELLER, E. Obstbaumschnitt und pflanzen-schutz. *Gesunde Pflanzen* 2:8-9. Jan.1950. 464.8 G33
- 35051 HOGWOOD, A. M. Fruit trees on their own roots. *Org. Farmer* 2(7):46-49. Feb.1951. 57.8 Or3
- 35052 JEANNEAU. Choix des arbres en pepinière. *Rev. Hort. de l'Algérie* 54:311-318. Nov.1950. 87 R32
- 35053 KABLUCHKO, G. A. On establishing rootstock and seed plots in the fruit nurseries. (In Russian.) Moldavskafä Plodo-Vinograd. Opyññ. Sta. Sborn. Rabot 1: 88-96. 1949,pub.1950. 93.6 M73
- 35054 KAMENDROVSKIÏ, E. M. My experiments in testing fruit and berry varieties. (In Russian.) In Kobrin, B., ed. *Sadovody-michurinsy*,p.78-116. Moskva?Moskovskii Rabochii,1950. 93.28 K79
- 35055 KAVEN, G. Wenn obstbäume nicht fruchten. *Obstbauberatungsring. Mittbl.* 5(4):5-6. Aug.1,1950. 85 Ob72
- 35056 KINDSHOVEN, J. Selektion und züchtung im obst- und gemüsebau. *Obstbau* 69:171-172. Nov.1,1950. 80 Ob73
- 35057 KIRILLIUK, K. G. Results and problems of the scientific-research work of the [Moldavian] Fruit and Grape Experiment Station. (In Russian.) Moldavskafä Plodo-Vinograd. Opyññ. Sta. Sborn. Rabot 1:3-18. 1949, pub.1950. 93.6 M73
- 35058 KOBRIN, B., ed. *Sadovody-michurinsy* [Fruit growers-Michurinites]. Moskva?Moskovskii Rabochii, 1950. 162 p. 93.28 K79
- 35059 KRONENBERG, H. G. Culture and breeding of fruit in Switzerland. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13(10,sup.):97-121. Ref. Nov.1950. 86 N384
- English summary.
- 35060 LANG, F. The way of the Swiss. *Fruit growing in Wallis. Fruit-Grower* 2879:390-392. Mar.1,1951. 80 F941
- 35061 LAPEDAGNE, H. Les opérations de végétation sur les arbres fruitiers. *Soc. d'Hort. de la Haute-Garonne. Ann. (ser.5)*14:181-184. Apr./May 1950. 86 So194
- 35062 LAPEDAGNE, H. Plantation des arbres fruitiers. *Soc. d'Hort. de la Haute-Garonne. Ann. (ser.5)* 15:204-205. July/Sept.1950. 86 So194



- 35063 LEIB, E. Können hormone quantitativ und qualitativ der obsternte verbessern? Gesunde Pflanzen 2: 5-7. Jan.1950. 464.8 G33
- 35064 LESLIE, W. R. New varieties in Middle Canada. Fruit Varieties & Hort. Digest 5:51. Summer 1950. 80 F9464
- Fruit.
- 35065 LIEBSTER. Die anwendung von hormonpräparaten im obstbau. Obstbauberatungsring. Mittbl. 5(5):3-5. Oct.1,1950. 85 Ob72
- 35066 LIEBSTER. Die bedeutung der sortenwahl im obstbau. Landwirtbl. Weser-Ems 98:76-77. Jan.25,1951. 18 L2345
- 35067 LIJSTEN, R. Before and now. (In Dutch.) Fruitteelt 40:984-987. Christmas 1950. 86 N28
- Fruit culture in the Netherlands.
- 35068 L'JONES, B. Fruit culture-meteorology. (In Norwegian.) Norsk Hagetid. 67:16-17. Jan.1,1951. 80 N81
- 35069 LOOSE. Der obstbau in Südtirol. Obstbau 69: 182-183. Dec.1,1950. 80 Ob73
- 35070 MAURER, K. J. Über die prüfung der frostresistenz der obstgehölze und deren unterlagen. Obstbau 69:170-171. Nov.1,1950. 80 Ob73
- 35071 MAURI, N. Le verger perpetuel. Fruits et Primeurs de l'Afrique du Nord 21(221):15. Jan.1951. 80 F9482
- 35072 OOSTEN, A. VAN, and others. Some practical experiences with mist spraying in Zeeland. (In Dutch.) Fruitteelt 41:4-6. Jan.4,1951. 86 N28
- W. Philipse, C. Stange, and M. van de Vrie, joint authors.
- Of fruit.
- 35073 PEZZI, E. M. Production of fruit and restoration of orchards. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:148-149. July/Dec.1950. 9.2 R325
- 35074 POPOV, A. D. An orchard on marshland. (In Russian.) In Kobrin, B., ed. Sadovody-michurinsky, p. 124-133. Moskva? Moskovskii Rabochii, 1950. 93.28 K79
- Experiments in breeding fruit and berries chiefly.
- 35075 SAATHOFF. Bedeutung und durchführung des obstbaumschnittes. Obstbauberatungsring. Mittbl. 5(5):7. Oct.1,1950. 85 Ob72
- 35076 SAATHOFF. Betriebswirtschaftliche überlegungen zur wahl der baumform. Obstbauberatungsring. Mittbl. 5(4):3-4. Aug.1,1950. 85 Ob72
- 35077 SAATHOFF. Trotz guter blüte nur mäßiger ansatz. Obstbauberatungsring. Mittbl. 5(4):4-5. Aug.1, 1950. 85 Ob72
- 35078 SARASOLA, A. A. Las heladas invernales y la fruticultura en la zona de dolores. La Plata. U. Nac. Facul. de Agron. Cátedra de Fitopatol. B. 4,2 p. 1950. 464.9 L31
- 35079 SEITZER. Die bundesobstausstellung. Obstbau 69:161-162. Nov.1,1950. 80 Ob73
- Germany.
- 35080 SEITZER. Das neue landessortiment. Obstbau 69:178-179. Dec.1,1950. 80 Ob73
- Varieties.
- 35081 SNYDER, J. C. Here's how to plant trees fast. Better Fruit 45(9):9-10,33. Mar.1951. 80 B46
- 35082 SOUZA, J. S. I. DE. The current fruit question: more on the pruning of fruit trees. (In Portuguese.) Chacaras e Quintais 83:44-45. Jan.15,1951. 9.2 C34
- 35083 STEPANOV, S. N. Preparation of fruit crop seeds for planting. (In Russian.) Sad i Ogorod 1950(11): 19-23. Nov.1950. 80 Sa13
- 35084 STUIVENBERG, J. H. M. VAN. Culture of fruit in Betuwe in connection with difficulties and possibilities with respect to sale. (In Dutch.) Groenten en Fruit 6:359-360. Nov.23,1950. 80 G89
- 35085 TRECCANI, C. P. Germination test for dormant seeds of fruit trees. (In Italian.) Ann. della Sper. Agr. (n.s.) 5:201-206. 1951. 16 An76
- English summary.
- 35086 VIERHELLER, A. F. Newer ideas in pruning. Md. Agr. Col. Ext. Mimeog. 14H,9 p. Feb.1950. 275.29 M36Em
- Fruit.
- 35087 WINKELMANN. Obstanlagen entrümpeln! Württemb. Wchnbl. f. Landwirt. 118:136-137. Feb.17,1951. 18 W96
- 35088 WINKELMANN. Vom verjüngen der obstbäume. Württemb. Wchnbl. f. Landwirt. 118:94-95. Feb. 3,1951. 18 W96
- 35089 ZWINTZSCHER, M. Neue obstsorten. Obstbau 69:162-163. Nov.1,1950. 80 Ob73
- Fruits--Citrus and Subtropical**
- 35090 BERGILLOS DEL RIO, A. Organización de los medios colectivos de cultivo y de lucha antiparasitaria. Agricultura [Madrid] 19:573-575. Dec.1950. 15 Ag84
- Olive culture and insect pest control.
- 35091 BERNARDI, J. B. Olive culture. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:122-126. July/Dec.1950. 9.2 R325
- 35092 BITTERS, W. P., and BATCHELOR, L. D. Rootstocks affect orange sizes. Calif. Agr. [Calif. Sta.] 5:4,16. Jan.1951. 100 C12Cag
- 35093 BOEUF, F. La taille de l'olivier. Acad. d'Agr. de France. Compt. Rend. 36:602-603. Oct.25/Nov.8,1950. 14 P215Bc
- 35094 BOHL, C. El cultivo del plátano. Serv. Coop. Interamer. de Prod. de Aliment. Inform. del SCIPA. Ser. para los Agr. 20:45-48. (Cont.) Sept.1950. 9.8 P4352
- 35095 CAMP, A. F. Citrus propagation. Fla. Agr. Col. Ext. B. 139,rev.48 p. Aug.1950. 275.29 F66
- A revision of Bulletin 96.
- 35096 COLLINS, J. L. Notes on the origin, history, and genetic nature of the Cayenne pineapple. Pacific Sci. 5:3-17. Ref. Jan.1951. 475 P11
- 35097 CONDIT, I. J. A bibliography on the avocado (Persea americana Miller). Ed. 2. Riverside, Calif., U. Calif., Citrus Expt. Sta., 1950. 372 p. 241 C75
- 35098 DZHABUA, V. V. Kolkhoz imeni Beria [Beria collective farm]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 102 p. 281.179 D99
- Includes citrus and tea culture.
- 35099 FAHEY, H. N. Problems of the citrus planter. Agr. Soc. Trinidad & Tobago. Proc. 50:259,261-263,265. Sept.1950. 8 T73
- 35100 FORTUNA, R. Dwarf or early coconut? (In Portuguese.) Chacaras e Quintais 83:180. Feb.15,1951. 9.2 C34
- 35101 JOHNSTON, J. C. Selecting citrus nursery stock. Calif. Citrog. 36:180,193-194. Mar.1951. 80 C125
- 35102 LI, L. Y., and FANG, C. Trial culture of passion fruit, Passiflora edulis, in Foochow. (In Chinese.) Fukien Agr. J. 11:193-196. June 1950. 22.5 F95
- English summary.
- 35103 LUCIE-SMITH, M. N. The citrus rootstock problem in Trinidad. Agr. Soc. Trinidad & Tobago. Proc. 50:327-334. Sept.1950. 8 T73
- 35104 MANGO seed unlocks adventure. Fla. Grower 59(3):12,17,28. Mar.1951. 80 F6622
- 35105 MORETTINI, A. The culture of the olive in Spain. (In Italian.) Italia Agr. 88:17-30. Jan.1951. 16 It1
- 35106 OPITZ, K., and HARTMANN, H. T. Olive tree spacing; studies indicate wide spacing of trees advantageous to yields. Calif. Agr. [Calif. Sta.] 5(3):13,16. Mar. 1951. 100 C12Cag
- 35107 ORTEGA NIETO, J. M. El estudio de los cultivos asociados al olivo. Siembra [Madrid] 6(11):23-24. Nov.1950. 15 Si1
- Chiefly grain and legumes.
- Also in Agricultura [Madrid] 19:570-572. Dec.1950. 15 Ag84
- 35108 PAPAIACOVOU, M. Culture of olives. Countryman [Nicosia] 5:13. Jan.1951. 25 C83
- Cyprus.
- 35109 PODDUBNYI, I. G., and SHEFTEL', I. M. Experiment in growing citrus in the steppe zone of Crimea. (In Russian.) Sad i Ogorod 1950(11):41-43. Nov.1950. 80 Sa13
- Lemons mainly.
- 35110 PUERTA, F. DE LA. Poda de sostenimiento del olivo. Agricultura [Madrid] 19:576-579. Dec.1950. 15 Ag84
- 35111 RENAUD, M. La recolte des olives a huile. Voix des Colons 32(1588):2. Dec.25,1950. 24 V85
- 35112 ROBISON, M. O. Date palms of the Coachella. Amer. Forests 57(3):12-13. Mar.1951. 99.8 F762
- 35113 RODRIGUEZ GIMENO, A. El Congreso y la técnica agronómica. Agricultura [Madrid] 19:589-590. Dec.1950. 15 Ag84
- Thirteenth International Olive Congress.
- 35114 RUSSO, F., and TORRISI, M. The improvement of our citrus varieties through the selection of forms derived from nucellar embryos. (In Italian.) Ann. della Sper. Agr. (n.s.) 5:5-12. Ref. 1951. 16 An76
- English summary.



35115 RUSSO, F., and TORRISI, M. Tetraploid forms in *Citrus limon* L. and *C. aurantium* L. (In Italian.) Ann. della Sper. Agr. (n.s.) 5:13-20. Ref. 1951. 16 An76 English summary.

35116 SALGUERO, V. A. Los olivares "Santa Isabel" un futuro emporio olivícola en la Pcia. de Buenos Aires. Res 19:25647-25648. Jan. 5, 1951. 286.85 R31

35117 TASSERON, L. Spanish orange culture. (In Dutch.) Fruitteelt 40:981-983. Christmas 1950. 86 N28

35118 TATE, H. F., and HILGEMAN, R. H. Dates in Arizona. Ariz. Agr. Col. Ext. C. 165, 31 p. Sept. 1950. 275.29 Ar42

35119 ZITO, F. Spanish and Italian olive culture. (In Italian.) Mezzogiorno Agr. 7(4):1-2. Jan. 27/Febr. 3, 1951. 16 M57

### Fruits--Deciduous

35120 BATJER, L. P. Here's how to thin apricots and peaches fast, cheaply. Better Fruit 45(9):6-7. Mar. 1951. 80 B46

35121 BERNDT, Bei neupflanzungen zwetschen nicht vergessen. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:175. Feb. 1, 1951. 18 L2346

35122 BEVILACQUA, I. Black or dark Vignola cherry. (In Italian.) Gior. di Agr. 61:30. Jan. 28, 1951. 16 It1G

35123 BOSTEL, F. Die goldrenette-Freiherr von Berlepsch. Obstbau 69:172. Nov. 1, 1950. 80 Ob73 Apple variety.

35124 BREGGER, J. T. New wrinkles in peach growing. Farm & Ranch South. Agr. 81(3):15, 31. Mar. 1951. 6 T31

35125 BROOKE, J. Bush peaches in the open. Gard. Illus. 68:83. Mar. 1951. 80 G169 England.

35126 BROOKE, J. Out-door peach growing. Roy. Hort. Soc. J. 76:22-33. Jan. 1951. 84 L84J

35127 BROWN, D. S. Deciduous fruit and nut crops; mild temperatures of 1950-51 winter cause concern to deciduous industry because of light crops in prospect. Calif. Agr. [Calif. Sta.] 5(2):8, 12, 14. Feb. 1951. 100 C12Cag

Similar title in West. Canner & Packer 43(2):67, 69, 71. Feb. 1951. 286.83 W522

35128 BURKHOLDER, C. L. A pruning and fertilizing program for winter-injured peach trees. Amer. Fruit Grower 71(3):15, 23. Mar. 1951. 80 G85

35129 DAVIS, L. D. Canning peach test plots up-grade varieties. West. Fruit Grower 5(2):23-25. Feb. 1951. 95.8 G762

35130 ETTER, H. Der quittenbaum und die verwendung seiner fruchte. Obstbau 69:186-187. Dec. 1, 1950. 80 Ob73

35131 GERRITSEN, C. J. Cherries and other fruits in France. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13(10, sup.):181-206. Nov. 1950. 86 N384

35132 GERSONS, L. Tree nurseries in France. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13(10, sup.):207-220. Nov. 1950. 86 N384 Chiefly fruit.

35133 GOT, N. Le pêcher. Perpignan, Chez l'Auteur, 1950. 215 p. 93.35 G71

35134 HAVIS, A. L. Evaluation of new peach varieties. Va. Fruit 39(2):184-189. Feb. 1951. 81 Va81B Includes discussion.

35135 HAVIS, A. L., and others. Peach growing east of the Rocky Mountains. U. S. D. A. Farmers' B. 2021, 54 p. Jan. 1951. 1 Ag84F

M. H. Haller, J. C. Dunegan, L. C. Cochran, and B. A. Porter, joint authors. Supersedes Farmers' Bulletin 917.

35136 HOUGH, L. F., and PALMER, E. F. A new peach Envoy from New Jersey to Ontario. Fruit Varieties & Hort. Digest 5:35-36. Summer 1950. 80 F9464

35137 HOWE, G. H. Monroe—a promising late-keeping apple. Fruit Varieties & Hort. Digest 5:37-38. Summer 1950. 80 F9464

35138 JACKSON, LORD. Apple varieties I like to grow. Grower [London] 35:19. Jan. 6, 1951. 286.83 M34

35139 JOUGAN, E. A propos des variétés de pommes américaines. Acclimatation 78:32. Feb. 10, 1951. 14 Ac2

35140 JUDKINS, W. P. Current developments in peach culture; pruning and thinning. Mountaineer Grower 21(185):35-40. Feb. 1951. 80 M86

35141 KRÜSSMANN, G. Beiträge zur kenntnis der quitten sorten, *Cydonia oblonga* Mill. Deut. Baumsch. 3: 14-18. (To be cont.) Jan. 1, 1951. 80 D486

35142 LE GARREC. La production de la pomme a couteau. Terre 330:1, 3. Feb. 8/14, 1951. 281.8 T27

35143 LIEBSTER. Die steinobstsorten des obstsortiments für den bezirk Weser-Ems. Obstbauberatungsring. Mitteil. 5(5):5-7. Oct. 1, 1950. 85 Ob72

35144 LOEWEL, E. L. Möglichkeiten der beeinflussung des wachstums und der fruchtbarkeit von apfelbäumen. Obstbau 69:165-167. Nov. 1, 1950. 80 Ob73

35145 MACHERAUCH, O. Ist steinobstanbau im Langfördener obstbaugbiet empfehlenswert? Obstbauberatungsring. Mitteil. 5(4):1-2. Aug. 1, 1950. 85 Ob72

35146 MODENA, A. Taking of dormant peach bud grafts in relation to the woody growth of the grafts. (In Italian.) Agr. Tosc. 6:12-14. Jan. 1951. 16 Ag827

35147 MOS, D. DE. Measures for the planting of peaches and plums. (In Dutch.) Groenten en Fruit 6:395. Dec. 7, 1950. 80 G89

35148 OVERCASH, J. P., and others. Effects of cold compared on 25 peach varieties. Miss. Farm Res. [Miss. Sta.] 13(12):1, 6. Dec. 1950. 100 M69Mi J. A. Campbell, B. C. Hurt, and S. P. Crockett, joint authors.

35149 OVERCASH, J. P., and others. Effects of mild winters on peach trees in Mississippi. Miss. Agr. Expt. Sta. Inform. Sheet 457, 2 p. Dec. 1950. 100 M69In J. A. Campbell, B. C. Hurt, and S. P. Crockett, joint authors.

35150 PIERRE, P. Le cerisier dans la Vöge. France. Min. de l'Agr. B. Tech. d'Inform. 54:715-724. Nov. 1950. 14 F844B

35151 REPORT to prune growers: survey of cultural practices. West. Fruit Grower 5(2):42-43. Feb. 1951. 95.8 G762

Statements by E. L. Proebsting, A. H. Hendrickson, O. Lilleland, J. N. Fiske, H. A. Madsen, C. E. Scott, E. E. Serr, R. L. Perry, and R. R. Parks.

35152 ROACH, F. A. Rootstocks for pears. Nurseryman & Seedsman 112:390-391. Feb. 8, 1951. 80 N933

35153 ROACH, F. A. Stocks for peaches and cherries. Nurseryman & Seedsman 112:30-31. Jan. 4, 1951. 80 N933

35154 SANDYS, J. A. Orchard practice in apples and tung. Nyasaland Agr. Q. J. 9:47-56. Apr. 1950. 24 N983

35155 SHEWELL-COOPER, W. E. The fruit planting programme. Fruit, Flower & Veg. Trades' J. 98(22):29. Nov. 25, 1950. 80 F946

Apples, pears and plums in Great Britain.

35156 SMIRNOV, V. F. Cultivation of early-ripening dwarf apples in Moscow Region. (In Russian.) In Kobrin, B., ed. Sadovody-michurinsk, p. 134-163. Moskva? Moskovskii Rabochii, 1950. 93.28 K79

35157 SOKOLOVA, S. A. Peach culture in Moldavia. (In Russian.) Moldavskafa Plodo-Vinograd. Opytn. Sta. Sborn. Rabot 1:102-112. 1949, pub. 1950. 93.6 M73

35158 SOUZA, J. S. I. DE, and GONÇALVES, R. D. Quince culture. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:144-146. July/Dec. 1950. 9.2 R325

35159 STEINER, H. M. Opportunities for cherry production in Virginia. Va. Fruit 39(2):176-184. Feb. 1951. 81 V81B

Includes discussion.

35160 THOMAS, P. H. Peach and nectarine growing in Tasmania. Tasmania. Dept. Agr. Tasmanian J. Agr. 21:254-261. Nov. 1, 1950. 23 T182T

35161 ZINCHENKO, G. A. How I developed new varieties of apples and plums. (In Russian.) In Kobrin, B., ed. Sadovody-michurinsk, p. 117-123. Moskva? Moskovskii Rabochii, 1950. 93.28 K79

### Fruits--Small

35162 ABBAYES, H. DES. La vigne en Bretagne. I. Essai de divers hybrides à Rennes. Soc. Sci. de Bretagne. B. (Sci. Math. Phys. et Nat.) 24:59-64. 1949, pub. 1950. 505 R292

35163 AL'TMAN, F. F. To regulate the work in the preparation and shipping of grape planting stock. (In Russian.) Vinodel. i Vinograd. SSSR. 10(9):62. Sept. 1950. 95.8 V77

35164 ARZUMANOV, T. M., and SARKISIAN, G. L. On the arid land plots. (In Russian.) Vinodel. i Vinograd. SSSR. 10(10):11. Oct. 1950. 95.8 V77 Grape culture on Ashkhatank Collective Farm in Azerbaidzhan SSR.



- 35165 BAILEY, J. S. You can grow blueberries. *Flower Grower* 38(3):44,65-66. Mar.1951. 80 M72
- 35166 BASTELEUS, R. Comment augmenter la productivité des serres à raisins; sur quelques défauts de végétation. *B. Hort. (n.s.)* 6:20-21. Jan.1,1951. 80 B873
- 35167 BASTIDE, A. Aspect de la viticulture en Gironde. *Potasse* 25:28-30. Feb.1951. 57.8 P84
- 35168 BAUER, R. Stand und bedeutung der beeren-obstzüchtung. *Obstbau* 69:169-170. Nov.1,1950. 80 Ob73
- 35169 BIBLINA, B. I. Effect of methods of growing grapevines on the yield of budwood. (In Russian.) *Moldavskafá Plodo-Vinograd. Opytn. Sta. Sborn. Rabot* 1: 46-63. 1949, pub.1950. 93.6 M73
- 35170 BLUVSHTEIN, I. N. Importance of thickness of cutting [in grape culture]. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):41. Oct.1950. 95.8 V77
- 35171 BOYER, L., and FRANÇOT, P. Principes et modalités d'une reconstitution rationnelle des vignobles de Champagne. *Off. Internatl. du Vin. B.* 24(239):66-69. Jan.1951. 390.8 B87
- 35172 BROCK, R. B. An English vineyard. *Gard. Illus.* 68:10-11. Jan.1951. 80 G169
- 35173 BRUNNER, E. Wurzelreben oder kartonage- und topf-pfropfen? *Bauern Ztg.* 3:565-566. Nov.24, 1950. 18 B324
- 35174 BURGMANS, H. The currant growing at Loppersum is in trouble. I.-II. (In Dutch.) *Fruiteelt* 41:136-138,176-178. Feb.22,Mar.8,1951. 86 N28
- 35175 CALZECCHI-ONESTI, A. Strawberry culture. I-IV. (In Italian.) *Glor. di Agr.* 60:403,411-412;61:11-12, 35-36. Dec.24-31,1950,Jan.14,Feb.4,1951. 16 ItIG
- 35176 CHUMAK, I. V. An enlarged diversified farm. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):56-58. Oct.1950. 95.8 V77
- Chiefly on grape culture at Burgun-Madzharskii Sovkhoz.
- 35177 DALMASSO, G. The first course of specialization in viticulture and wine manufacture for graduates. (In Italian.) *Colt. e Glor. Vinic. Ital.* 96:318-319. Nov. 30,1950. 16 C72
- 35178 DRUŽIČKA, N. I. We are paying special attention to the proper pruning of [grape] vines. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):9. Oct.1950. 95.8 V77
- Zavety Il'icha Collective Farm in Verkhne-Bakanskii District, Krasnodar Territory.
- 35179 DUSHUTINA, K. K. The Moldavanka strawberry. (In Russian.) *Moldavskafá Plodo-Vinograd. Opytn. Sta. Sborn. Rabot* 1:97-101. 1949, pub.1950. 93.6 M73
- 35180 ENGELHARDT, Der winterbau in den reben. *Bauern Ztg.* 3:597. Dec.8,1950. 18 B324
- 35181 FREGOLA, C. Present-day aspects of Tuscan viticulture. (In Italian.) *Agr. Tosc.* 6:21-26. (To be cont.) Jan.1951. 16 Ag827
- 35182 GAVRILKEVICH, B. B. We are getting a crop on the second and third year after planting. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):49-51. Oct.1950. 95.8 V77
- Grape culture on Karl Libknecht Collective Farm in Odessa Region.
- 35183 GILLESSE, J. P. An Alberta fruit farm. *Family Herald & Wk. Star* 82(9):3,15. Mar.1,1951. 7 F21
- Small fruit farming.
- 35184 GRAUD, L. L'affinité des hybrides porte-greffes. *Inform. Marocaine* 522:1,4. Jan.13,1951. 281.8 in3
- Grapes.
- 35185 GLUKHOV, I. G. Accelerated method for growing [grape] planting stock. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):39-40. Oct.1950. 95.8 V77
- 35186 GROENEVELD, C. Winter care of the strawberry plant. (In Dutch.) *Betuws Tuinbouwbl.* 8(20):5-6. Dec.16,1950. 80 B464
- 35187 GUKAS'IAN, A. S. Grape culture in the Kazakhstan part of Golodnaya Step. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):19-20. Oct.1950. 95.8 V77
- 35188 HIDALGO FERNANDEZ-CANO, L. La calidad de la uva; factores determinantes y posibilidades de mejora. *Spain. Min. de Agr. Serv. de Capacitación y Propag. P. Manuales Téc.* 7,59 p. Ref. 1950. 15 Sp14
- 35189 JORDAN, C., and SENGBUSCH, R. VON. SENG-erdbeersorten. *Deut. Baumsch.* 3:1-3,6. Jan.1, 1951. 80 D486
- 35190 JUSCAFRESA, B. La viña y sus particularidades; el cultivo. *Ceres [Valladolid]* 16(175):16-17. Jan.1, 1951. 15 C33
- 35191 KALIFUZHNYI, A. F. On covering up [grape] vines for the winter. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):34. Oct.1950. 95.8 V77
- 35192 KONDO, I. N. Not to allow mixtures of varieties in vineyards. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):61-62. Oct.1950. 95.8 V77
- 35193 KRANZ. Entfernen der edelreiszurzel in der rebschule. *Weinbau* 6:28. Jan.21,1951. 390.8 W432
- 35194 KRASNOKUTSKAIA, S. V. Importance of organic cover [straw, leaves, etc.] in covering up [grape] bushes for the winter. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(9):16-20. Sept.1950. 95.8 V77
- 35195 KRAVCHENKO, V. A. At the vineyards of Malaia Zemlia Sovkhoz. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):54-55. Oct.1950. 95.8 V77
- Chiefly on wind protection.
- 35196 KRUIJK, P. A., and HEESSEN, G. J. White grapes. (In Dutch.) *Groenten en Fruit* 6:411. Dec.14, 1950. 80 G89
- 35197 KVIRIKASHVILI, Z. I. Experimental [grape] production plot on [Khirsia] State Farm. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):59-60. Oct.1950. 95.8 V77
- 35198 LARREA, A. Vides americanas portainjertos. *Spain. Min. de Agr. Serv. de Capacitación y Propag. P. Manuales Téc.* 8,209 p. Ref. 1950. 15 Sp14
- 35199 LAVEZZINI, A. Caution—in selection of grape grafts. (In Italian.) *Avvenire Agr.* 59:13-14. Jan.1951. 16 Av9
- 35200 LE ROUX, M. S. The "peak" problem in exports of grapes. (Sum.) *Food Indus. So. Africa* 3(8):30. Dec.1950. 389.8 F7372
- Cultural practices to influence time of maturity.
- 35201 LIEBSTER. Zur bevorstehenden pflanzzeit: unsere stärke, werdet buschobstbauer! *Obstbauberatungsring. Mitbl.* 5(5):1-2. Oct.1,1950. 85 Ob72
- 35202 MAKOVETSKII, N. I. On improving Pino Chernyi [grape] variety. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(9):40-43. Sept.1950. 95.8 V77
- 35203 MARSAIS. Les cépages hybrides dans la région méditerranéenne. *Bouches du Rhône Agr.* 23 (1043):6. Jan.15,1951. 14 B662
- Grapes.
- 35204 MIKHAILIUK, I. V. In regard to improving the formation of the grape vine. (In Russian.) *Moldavskafá Plodo-Vinograd. Opytn. Sta. Sborn. Rabot* 1:37-45. 1949, pub.1950. 93.6 M73
- Pruning.
- 35205 NAUMENKO, N. P., and KUTALEVA, T. S. Accelerated development of new grape varieties. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):36-39. Oct. 1950. 95.8 V77
- 35206 NEGRUL', A. M., and RUBIN, S. M. Scientific-research institutions in grape production on the 33d anniversary of October [Revolution]. (In Russian.) *Sad i Ogorod* 1950(11):26-29. Nov.1950. 80 Sa13
- Developed new varieties.
- 35207 NEGRUL', A. M. Vineyards in the deserts of Turkmenia. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10 (10):14-18. Oct.1950. 95.8 V77
- 35208 NEKRASOVA, A. A. In regard to fixing norms for the load of grapes on vines under conditions of Moldavia. (In Russian.) *Moldavskafá Plodo-Vinograd. Opytn. Sta. Sborn. Rabot* 1:19-36. 1949, pub.1950. 93.6 M73
- Pruning experiments.
- 35209 O'BERLE, G. D. Problems in commercial raspberry growing. *Va. Fruit* 39(2):153-165. Feb.1951. 81 V81B
- 35210 PALIN, P. S. Ditch and screen method of covering up grapes for the winter. (In Russian.) *Sad i Ogorod* 1950(12):68. Dec.1950. 80 Sa13
- 35211 PARKER, M. M. Strawberry production methods in Virginia. *Va. Fruit* 39(2):146-153. Feb.1951. 81 V81B
- 35212 PEREZ-SALAS Y LAMO DE ESPINOSA, J. Divulgaciones sobre portainjertos. *Semana Vitivinif.* 5 (228):2,11. Nov.11,1950. 95.8 Se5
- Grapes.
- 35213 PEYER, E. Der weinbauer und die weinfachschule. *Grüne* 78:1365-1367. Dec.15,1950. 17 Sch9
- 35214 PIROVANO, A. Early table grapes. (In Italian.) *Agr. Tosc.* 6:9-11. Jan.1951. 16 Ag827
- Varieties.
- 35215 PITTEK, R. Cold-house vines. *Countryman [Burford]* 43:135-136. Spring 1951. 281.28 C832



35216 RAKONTSA, G. I., CHOTARI, K. I., and SHOSH, E. I. Our daily effort for high yields [of grapes]. (In Russian.) Vinodel. i Vinograd. SSSR. 10(10):10. Oct. 1950. 95.8 V77

Beregovskii Sovkhoz of Transcarpathian Wine Combine.  
35217 RAPHAEL, T. D. Berry fruits—British stock certification. Tasmania. Dept. Agr. Tasmanian J. Agr. 21:246-253. (Cont.) Nov.1,1950. 23 T182T  
Raspberries and black currants.

35218 ROGERS, W. S., and MCDLIBOWSKA, I. Strawberry cultivation studies. III. Spaced and matted systems. J. Hort. Sci. 26:47-59. Ref. Dec.1950. 80 J825

35219 RUBIN, S. M. Heroes of Socialist Labor in grape culture. (In Russian.) Sad i Ogorod 1950(11):32-34. Nov.1950. 80 Sa13

Chiefly on their cultural practices.

35220 RUCHKA, A. S. In the vineyards of Ts'aul'skii state fruit nursery. (In Russian.) Vinodel. i Vinograd. SSSR. 10(9):59-60. Sept.1950. 95.8 V77

35221 SAINT-MARTIN, D. Greffage de la vigne. Rev. Agr. de l'Afrique du Nord 48:928-929. Dec.15,1950. 80 R326

35222 SCHNEIDER, M. Bis zum frost tragende erdbeeren. Obstbau 69:169. Nov.1,1950. 80 Ob73

35223 SERZHENKO, S. S. Achievements of science—into production. (In Russian.) Sad i Ogorod 1950(11):30-31. Nov.1950. 80 Sa13

Research in grape culture by Anapskaia Zonal'nafâ Opytnaia Stantsiia Vinogradarstva i Vinodeliia.

35224 SHAULIS, N. Cultural practices for New York vineyards. N. Y. Agr. Col. Cornell Ext. B. 805,47 p. Dec.1950. 275.29 N48E

35225 SLATE, G. L. Try strawberries! Flower Grower 38(3):45,81-84. Mar.1951. 80 M72

35226 SPOOR, P. A. Grape culture in Belgium. (In Dutch.) Fruitteelt 40:995-998. Christmas 1950. 86 N28

35227 STOVER, L. H., and PARRIS, G. K. New grapes for Florida. Fla. Grower 59(3):7,24. Mar.1951. 80 F6622

35228 TUPIKOV, M. A. Problems in grape culture in Kherson Region. (In Russian.) Vinodel. i Vinograd. SSSR. 10(9):43-45. Sept.1950. 95.8 V77

35229 U. S. PATENT OFF. Plant patent 1005.

Felten, O. E. Strawberry plant. 2 p., 1 col. pl. Feb. 27, 1951. 156.65 P69

35230 USOV, N. S. Grapes in a school orchard. (In Russian.) Sad i Ogorod 1950(12):67-68. Dec.1950. 80 Sa13

35231 VITES, L. S. Autumn planting of grapes in the zone requiring covering up. (In Russian.) Vinodel. i Vinograd. SSSR. 10(9):39-40. Sept.1950. 95.8 V77

### Nuts

35232 AGUIRRE BENAVIDES, G. El marañon [Anacardium occidentale]. Soc. Bot. de Méx. B. 11:23-26. Dec.1950. 451 So125

35233 BOSTEL, F. Der schnitt der haselnussbusches. Obstbau 69:173-174. Nov.1,1950. 80 Ob73

35234 EVERETT, P. Queensland nut tree [Macadamia ternifolia] culture in New Zealand. New Zeal. J. Agr. 81: 527. Dec.15,1950. 23 N48J

35235 FERAUGE, M. T. La greffe du noyer. B. Hort. (n.s.):5314-322. Nov.1,1950. 80 B873

35236 GLENN, E. M. Propagation of the walnut. Trees & New Earth 14:127-218. Winter 1950/51. 99.8 T714

35237 HANSEN, C. J., and HARTMANN, H. T. Influence of various treatments given to walnut grafts on the percentage of scions growing. Diamond Walnut News 33(2):10-11. Mar.1951. 94.68 D34

35238 KHRAMOV, E. S. Almond [culture] in Moldavia. (In Russian.) Moldavskafâ Plodo-Vinograd. Opytn. Sta. Sborn. Rabot 1:113-124. 1949, pub.1950. 93.6 M73

35239 SCHROEDER, C. A. Potentials of macadamia nuts in California. Calif. Farmer, South. Ed. 194:218-219. Mar.10,1951. 6 C126A

35240 SERR, E. F., and FORDE, H. I. Paradox hybrid seedlings vs. black walnut rootstocks. Diamond Walnut News 33(2):12-13. Mar.1951. 94.68 D34

35241 SERR, E. F. Walnut cuttings; treatment with hormones, calling in sand for vegetative propagation. Calif. Agr. [Calif. Sta.] 4(12):11. Dec.1950. 100 C12Cag

### Shade Trees and Ornamental Plants

35242 ACKERMAN, W. Pruning ornamental shrubs. Org. Gard. 18(2):36-37. Feb.1951. 56.8 Or3

35243 AGENDA des floriculteurs, 1951, cinquante-septième année. Lyon,1950. 160 p. 80 Ag32

35244 ALBRECHT, G. J. Trees and cities of tomorrow. Natl. Shade Tree Conf. Proc. 26:15-22. 1950. 99.9 N218

35245 ALLWOOD, M. The perpetual - flowering carnation. Gard. Illus. 68:79. Mar.1951. 80 G169

35246 ANDERSON, A. W. Hebe traversii in New Zealand. Gard. Chron. 128:238. Dec.23,1950. 80 G162

35247 ASHTON, L. S. Know your complete Gladiolus year. Org. Gard. 18(2):20-22. Feb.1951. 56.8 Or3

35248 ASSOCIATED BULB GROWERS OF HOLLAND. The joy of spring in home and garden. New York,1950? 16 p. 96.4 As7

35249 ATKINSON, J., and ATKINSON, R. Camellia magic. McComb, Miss., McComb Enterp.-J., 1950. 120 p. Ref. 97.31 At5

35250 AUL, H. B. Planting for food and ornamentation is traditional; grounds should stress alike practical and esthetic sides. Farm & Gard. [Watertown] 1951:8. Mar.3,1951. 6 F234

35251 AUL, H. B. Problem properties can be landscaped. Farm & Gard. [Watertown] 1951:5. Mar.10,1951. 6 F234

35252 BACHER, J. The initial progress of the American Rhododendron Society Trial Garden. Amer. Rhododendron Soc. Q. B. 5:14-16. Jan.15,1951. 81 Am398

35253 BANKS, J. Growing and care of tuberous Begonias. Prof. Gard. 3:8-9. Jan.1951. 80 P945

35254 BARNES, A. T. The new Dahlias. Gard. Illus. 68:36-37. Feb.1951. 80 G169

35255 BARTON, G. Creative art in flower culture; hidden fortunes in breeding. Fruit, Flower & Veg. Trades' J. 98(24):16. Dec.9,1950. 80 F946

35256 BASTELEUS, R. Historique de la culture des orchidées exotiques. II. B. Hort. (n.s.):5311-313. Nov.1, 1950. 80 B873

35257 BAYNES, A. Plants for beginners. 3. Cacti II. Natl. Cactus & Succulent J. 5:56-57. Dec.1950. 450 N21

35258 BECKX, A. Strelitzia reginae. B. Hort. (n.s.) 5:329-330. Nov.1,1950. 80 B873

35259 BERENDS, J. L. The family Forsythia. (In Dutch.) Vakbl. v. de Bloemisterij 6:36. Feb.2,1951. 80 V22

35260 BERENDS, J. L. Hamamelis or witchhazel. (In Dutch.) Vakbl. v. de Bloemisterij 6:12. Jan.12,1951. 80 V22

35261 BLACKBURN, B. Plant for permanence—buttercup Corylopsis. Flower Grower 38(3):12-13. Mar. 1951. 80 M72

35262 BLANCHE, H. M. Landscape planting in State parks. Parks & Recreation 34(3):8-11. Mar.1951. 98.8 P23

35263 BOER, H. W. DE. Lithops fulviceps N. E. Br. (In Dutch.) Succulenta 1950:83-84. Nov./Dec.1950. 450 Sn12

35264 BONE, S. Lady of the woods. Countryman [Burford] 43:39-42. Spring 1951. 281.28 C832  
Epipogon aphyllum.

35265 BOOY, A. The maintenance of farm hedges. Farming Gloucestershire 9:79,81. 1950. 10 F2291

35266 BRANDT, C. R. A progress report on Glenn Dale hybrid Azaleas. Calif. Hort. Soc. J. 12:36-41. Jan. 1951. 81 C1293

35267 BRANDT, L. E. Further comments on Rhododendron hybridizing. Arboretum B. 13(4):15-16,31. Winter 1950. 451 Ar1

35268 BRUWERS, J. B. Shade trees of the South Atlantic States. Arborist's News 16:13-16. Feb.1951. 99.8 Ar14

35269 BROWNELL, A. Who said money doesn't grow on trees? Milwaukee, Or., Brownell Farms, 1950. 17 p. 97.31 B81

Holly.

35270 BRYDON, P. H. The propagation of hybrid Rhododendrons from cuttings. Amer. Rhododendron Soc. Q. B. 5:29-32. (To be cont.) Jan.15,1951. 81 Am398

35271 BYLES, R. S. Frere indica Dalz. (Asclepiadaceae). Natl. Cactus & Succulent J. 5:57. Dec.1950. 450 N21

35272 BURKART, A. "Gleditsia triacanthos" Linneo, var. "inermis" Pursh, en Buenos Aires. Rev. Argentina de Agron. 17:257. Dec.1950. 9 R327



- 35273 BUTLER, E. Famous southern gardens. *Prog. Farmer, Tex. Ed.* 66(3):62,64. Mar.1951. 6 T311
- 35274 CALZADILLA CABRALES, P. Las Zinnias, cagigales o clavelones. *Retiro Azucarero* 6(19/20):44-45. Sept./Dec.1950. 65.8 R31
- 35275 CARDWELL, I. Late Chrysanthemums. 1-2. *Grower [London]* 35:66-67,125,127. Jan.13-20,1951. 286.83 M34
- 35276 CARMACK, W. C. Winter enjoyment in the garden. *Calif. Hort. Soc. J.* 12:29-32. Jan.1951. 81 C1293
- 35277 CARLETON, R. M. What makes seeds grow?; the germination requirements for various seeds differ. *Flower Grower* 38(3):56,62. Mar.1951. 80 M72
- 35278 CARROLL, A. B. Duties and problems of the State highway tree inspector. *Natl. Shade Tree Conf. West Chapter. Proc.* 17:258-261. In *Natl. Shade Tree Conf. Proc.* 26. 1950. 99.9 N218
- 35279 CASON, J. F. 1950 introductions. *Glad Fan* 4(3):7-8,16,18. Mid-Winter,1951. 80 G453
- 35280 CATALINA, L. Los árboles de hojas caducas y el frío. *Cult. Mod.* 33:459. Dec.1950. 15 C89
- 35281 CAVE, N. L. The newer Irises. *Gard. Illus.* 68:68-69. Mar.1951. 80 G169
- 35282 CELESTRE, M. R. The Gerbera—flowers all the year 'round. (In Italian.) *Terra e Sole* 102:48. Feb. 1951. 16 T273
- 35283 CHADWICK, L. C. The influence of several understocks on the growth of scions of some varieties of *Juniperus*. *Ohio Agr. Col. Ext. Nursery Notes* 20(1),6 p. Jan.1951. 275.29 Oh32N
- 35284 CHAMBON, E. Exposé sur la culture des bulbes dans le region meridionale, Alpes-Maritimes et Var. *Rev. Hort. de l'Algérie* 54:322-325. Nov.1950. 87 R32
- 35285 CHANDLER, N. Bulbs and blooms; big business in Gladiolus culture. *Org. Gard.* 18(2):44-45. Feb. 1951. 56.8 Or3
- 35286 CHEVALIER, C. Plantes d'appartement. B. *Hort. (n.s.)* 6:10-11,13. Jan.1,1951. 80 B873
- 35287 CHOATE, M. The Roy Berry miniatures. *Begonian* 18:41-45. Mar.1951. 96.511 B39
- 35288 CLARKE, J. H. About Rhododendron varieties. *Arboretum B.* 13(4):12-13,34-35. Winter 1950. 451 Ar1
- 35289 CLARKE, J. H. Ratings for Rhododendron species. *Amer. Rhododendron Soc. Q. B.* 5:7-13. Jan.15, 1951. 81 Am398
- 35290 COMBER, J. Ripening plants with bulbs or fleshy stems. *Gard. Illus.* 68:11. Jan.1951. 80 G169
- 35291 COTHRAN, C. D. Winter rooting of Camellia cuttings. *Camellia Rev.* 12(4):11,22. Jan.1951. 97.31 So82
- 35292 COWLES, R. R. Tree-trimming problems of electric power companies. *Natl. Shade Tree Conf. West Chapter. Proc.* 17:255-258. In *Natl. Shade Tree Conf. Proc.* 26. 1950. 99.9 N218
- 35293 CREECH, J. L. Some promising small trees. *Natl. Shade Tree Conf. Proc.* 26:65-70. Ref. 1950. 99.9 N218  
Includes discussion.
- 35294 CURTIS, C. H. Alstroemeria, Ligtu hybrids. *Gard. Illus.* 68:75. Mar.1951. 80 G169
- 35295 CURWOOD, J. E. Bedding plants are worth growing well. *Grower [London]* 35:221. Feb.3,1951. 286.83 M34
- 35296 DAY, L. Growing a Begonia on the "dry" side. *Begonian* 18:29. Feb.1951. 96.511 B39
- 35297 DESCHAMPS, G. Comment je cultive mes cactées. *Cactus [Paris]* 26(sup.):1-2. Dec.15,1950. 450 C114
- 35298 DEVEREAUX, W. B. Our favorite flowers. *Amer. Primrose. Soc. Q.* 8:41-43. Jan.1951. 96.575 Am3  
Oregon.
- 35299 DODGE, L. Spotlight on the Amaryllis. *Org. Gard.* 18(3):36-38. Mar.1951. 56.8 Or3
- 35300 DÖRREHAUS, F. Tropenurwald im zimmer. *Orion* 5:940-945. Dec.1950. 474 Or4
- 35301 DUSTIN, J. H. You can make fences pay. *Org. Farmer* 2(7):44-45. Feb.1951. 57.8 Or3  
Hedges.
- 35302 EISELT, M. Vom ablegen, absenken, eindecken und anhäufeln der ziergehölze. *Deut. Baumsch.* 3:7-10. (To be cont.) Jan.1,1951. 80 D486
- 35303 ELLIOTT, C. The best of the Potentillas. *Countryman [Burford]* 43:114-115. Spring 1951. 281.28 C832
- 35304 ELLIS, C. K. Summer pruning of shrubs in the flower garden. *New Zeal. J. Agr.* 81:565,567-568. Dec. 15,1950. 23 N48J
- 35305 EMSWELLER, S. L. Gladiolus research in the United States Department of Agriculture. *New Eng. Gladiolus Soc. Gladiolus* 26:118-129. 1951. 96.43 N44
- 35306 ENGEL, R. E. The lawn comes first. *Flower Grower* 38(3):38-39,67-69. Mar.1951. 80 M72
- 35307 EVANS, S. Preferred trees for highway uses. *Natl. Shade Tree Conf. West. Chapter. Proc.* 17:226-228. In *Natl. Shade Tree Conf. Proc.* 26. 1950. 99.9 N218
- 35308 FISCHER, B. Dis Osmanthusarten unserer gärten. *Gärtnermeister* 54:49-50. Feb.15,1951. 80 G1939
- 35309 FISHER, L. B. An eighteenth-century garland; the flower and fruit arrangements of Colonial Williamsburg. *Williamsburg, Va., Colonial Williamsburg, 1951. Ref.* 91 p. 96.03 F53
- 35310 FLAD, J. J. Gladiolus seedling hot beds. *New Eng. Gladiolus Soc. Gladiolus Mag.* 15:13-14. Feb. 1951. 96.43 N44 Suppl
- 35311 FOLTZ, F. Meet my favorites. *African Violet Mag.* 4(3):18,49-50. Mar.1951. 80 Af8
- 35312 FURNESS, G. B. My experiences with maiden-hair fern [*Adiantum*]. *Begonian* 18:28. Feb.1951. 96.511 B39
- 35313 GAPEN, C. E. New grasses needed for shady locations, turf scientist [Fred V. Grau] says. *Crops & Soils* 3(6):30. Mar.1951. 6 W55
- 35314 GARRETT, J. C. Home grounds beautification; a 4-H Club manual. *Okla. Agr. Col. Ext. C.* 544,8 p. n.d. 275.29 Ok41C
- 35315 GARSIDE, G. H. How to recognise garden flowers. *Leicester, Eng., Brockhampton, 1950.* 31 p. (Young Nat. Ser.) 96 G19
- 35316 GEERT, A. VAN. Camellias; contenant les figures et une courte description des douze plus rares et plus belles variétés de ce genre. *New York, Paris Etching Soc., 1950.* 8 p. 97.31 G27C
- 35317 GELEIN, C. Our assortment of medium sized Chrysanthemums. (In Dutch.) *Vakbl. v. de Bloemisterij* 6:10. (To be cont.) Jan.12,1951. 80 V22
- 35318 GELEIN, C. Pyrethrum Chrysanthemums. (In Dutch.) *Vakbl. v. de Bloemisterij* 6:34. (To be cont.) Feb.2,1951. 80 V22
- 35319 GERLING, J. Some shade trees. *Natl. Shade Tree Conf. Proc.* 26:98-106. 1950. 99.9 N218
- 35320 GREEN, S. A noteworthy garden. (In Swedish.) *Trädgårdstidningen* 22(12):10-15. Dec.1950. 80 T67
- 35321 GREGG, E. W. Primroses in the sun-heated pit. *Amer. Primrose. Soc. Q.* 8:33-36,40. Jan.1951. 96.575 Am3
- 35322 GRESHAM, D. T. Growing tuberous begonias. *Flower Grower* 38(3):48-49,70-74. Mar.1951. 80 M72
- 35323 GRIGSON, G. Transition in garden style. *Gard. Illus.* 68:72-74. Mar.1951. 80 G169
- 35324 GROSSMAN, J. The value of rotted wood for Rhododendrons. *Amer. Rhododendron Soc. Q. B.* 5:28-29. Jan.15,1951. 81 Am398
- 35325 HADLAND, K. Trees for inland areas. *Natl. Shade Tree Conf. West Chapter. Proc.* 17:230-234. In *Natl. Shade Tree Conf. Proc.* 26. 1950. 99.9 N218  
Desert regions.
- 35326 HALL, H. About bulbine Mesembryanthemoides. *Natl. Cactus & Succulent J.* 5:68. Dec.1950. 450 N21
- 35327 HALL, M. A. The elm is an historic tree. *Rur. New-Yorker* 101:136. Feb.17,1951. 6 R88
- 35328 HANGER, F. E. W. Hardy heaths. *Roy. Hort. Soc. J.* 76:47-54. Feb.1951. 84 L84J  
Erica and Calluna.
- 35329 HARP, H. P. Evergreen hedges for prairie gardens [Canada]. *Farm & Ranch Rev.* 47(2):32-33. Feb. 1951. 7 F223
- 35330 HARVEY, H. G. More about growing African violets under fluorescent light. *African Violet Mag.* 4(3):14-15. Mar.1951. 80 Af8
- 35331 HARVEY, N. P. A survey of the newer roses. *Gard. Illus.* 68:14-16. Jan.1951. 80 G169
- 35332 HASTIE, C. N. Never underestimate the sasanqua. *Camellian* 1:78. Dec.1950. 97.31 C14
- 35333 HASTINGS, W. R. All-America selections; new flowers for 1951. *Org. Gard.* 18(2):31. Feb.1951. 56.8 Or3
- 35334 HAWORTH-BOOTH, M. My choice of Japanese cherries. *Gard. Illus.* 68:42-44. Feb.1951. 80 G169



- 35335 HAY, R. Better hedges. Grayswood, Haslemere, 1950? 19 p. 97.3 H32
- 35336 HERNANDEZ, D. La jardineria española. Siembra [Madrid] 6(12):6-9. Dec. 1950. 15 S11
- 35337 HILLSON, N. Transportation of trees has become an industry. So. African Timber Trades' J. 5(2):11-12. Nov. 1950. 99.8 So82
- 35338 HOAK, C. M. Some 100% Americans of the Central Region. Natl. Gard. 22:22-24, 27, 31 32. Jan./Feb. 1951. 90.32 N21
- 35339 HOFF, S. Polemonium varieties as perennials. (In Norwegian.) Norsk Hagetid. 67:2-3. Jan. 1, 1951. 80 N81
- 35340 HOLM, H. Cinerarias. Prof. Gard. 2:189. Aug. 1950. 80 P945
- 35341 HUBBARD, F. C. Glads can increase your farm income; raising flowers for sale to a nearby florist or at a market is a profitable side line. Country Gent. 121(3):185, 200. Mar. 1951. 6 C833
- 35342 HUCKETT, G. W. More flowers for less work. Amer. Agr. 148:156-157. Mar. 3, 1951. 6 Am3 Varieties.
- 35343 HUDSON, R. L. The Epimediums. Calif. Hort. Soc. J. 12:33-36. Jan. 1951. 81 C1293
- 35344 HUME, H. H. Camellias, kinds and culture. New York, Macmillan, 1951. 271 p. 97.31 H88Ca
- 35345 HUME, H. H. Kamel—Kaempfer—Linneaus. Camellia Rev. 12(4):3-5, 13. Jan. 1951. 97.31 So82 Camellia history.
- 35346 ILLINGWORTH, F. Sweden's railway gardens. Gard. Illus. 68:47. Feb. 1951. 80 G169
- 35347 JACOBI, E. F. Observations on the culture of ornamentals in England. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13(10, sup.):390-391. Nov. 1950. 86 N384
- 35348 JANSE, J. A. Parodia microsperma (Web.) Speg. (In Dutch.) Succulenta 1950:81-82. Nov./Dec. 1950. 450 Su12
- 35349 JANSE, J. A. Two interesting South African Euphorbias. (In Dutch.) Succulenta 1950:91-92. Nov./Dec. 1950. 450 Su12 Euphorbia tubigians and E. clandestina.
- 35350 JENNY, J. Rhododendron culture in Swiss gardens and parks. Amer. Rhododendron Soc. Q. B. 5:17-20. Jan. 15, 1951. 81 Am398 Translated by J. Bacher.
- 35351 JOHNSON, R. D. Trees for the Salt Lake Basin. Natl. Shade Tree Conf. West Chapter. Proc. 17:234-239. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218
- 35352 JOUGAN, E. Arbustes d'ornement élevés sur petites tiges. Acclimatation 78:19-20. Jan. 27, 1951. 14 Ac2
- 35353 JOUGAN, E. La culture des pois de senteur à grandes fleurs. Acclimatation 78:39. Feb. 17, 1951. 14 Ac2
- 35354 JOUGAN, E. Les fougères d'appartement et leur entretien. Acclimatation 78:13. Jan. 20, 1951. 14 Ac2
- 35355 JOUGAN, E. Que planter pour masquer un mur exposé au nord? Acclimatation 78:44. Feb. 24, 1951. 14 Ac2
- 35356 KAMMERER, E. L. Deciduous conifers of the Morton Arboretum. I. Larix decidua (Mill.) (syn. europaea D.C.), the European Larch. Morton Arboretum. B. Pop. Inform. 26:1-4. Jan. 1951. 99.9 M84
- 35357 KELLY, G. W. Planting; here are important rules for every gardener. Green Thumb 8(2):12-15. Feb. 1951. 80 G82
- 35358 KENEALY, J. Line clearing. Shade Tree 23 (11/12):2-4. Nov./Dec. 1950. 99.8 Sh1
- 35359 KILLINGER, G. B. Spring care of your lawn. Fla. Grower 59(3):14. Mar. 1951. 80 F6622
- 35360 KLEINER, P. Viburnum davidii. Gärtnermeister 54:17. Jan. 18, 1951. 80 G1939
- 35361 KRAGTWIJK, C. What Freesia seed do we buy and when? (In Dutch.) Vakbl. v. de Bloemisterij 6:11. Jan. 12, 1951. 80 V22
- 35362 KRAUS, E. J. Hardy Chrysanthemums. Flower Grower 38(3):42-43, 78-80. Mar. 1951. 80 M72
- 35363 KRAUS, E. J. Rhododendron occidentale. Arboretum B. 13(4):19, 32. Winter 1950. 451 Ar1
- 35364 LANGE, K. J. DE. Care of flowering shrubs. (In Dutch.) Volkstuin 34:7. Jan. 1951. 80 V88
- 35365 LEDESMA, N. R. Arboles criollos ornamentales: el carnaval. Chacra 21(243):26. Feb. 1951. 9 C34 Cassia carnaval.
- 35366 LEDESMA, N. R. El visco o viscote. Chacra 21(240):32-33. Nov. 1950. 9 C34 Acacia.
- 35367 LEE, C. E. Southern California Edison Company's line clearing operation. Natl. Shade Tree Conf. West Chapter. Proc. 17:270-273. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218
- 35368 LEGANTSEV, M. I. Euonymus culture in a specialized establishment. (In Russian.) Lesn. Khoz. 3(7):73. July 1950. 99.8 L5622
- 35369 LIGHART, J. The secret formula. Begonian 18:48-50. Mar. 1951. 96.511 B39 Culture.
- 35370 LITTLEFIELD, J. J. Sasanqua Camellias are effective espallier plants. Camellia Rev. 12(4):7, 15. Jan. 1951. 97.31 So82
- 35371 LIVINGSTON, K. E. Experiences of an amateur Rhododendron gardener. Amer. Rhododendron Soc. Q. B. 5:22-28. Jan. 15, 1951. 81 Am398
- 35372 LOVELOCK, B. There's an art in growing Violas. Smallholder 84(2127):15. Feb. 23, 1951. 10 Sml
- 35373 MCCARTY, C. S. The story of boxwood. Richmond, Dietz, 1950. 68 p. 97.32 M12
- 35374 MACKENZIE, F. Regulation and control of line clearance tree trimming on the public trees of Santa Barbara. Natl. Shade Tree Conf. West Chapter. Proc. 17:261-262. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218
- 35375 MCMINN, H. E. The origin of Mills Glory Ceanothus. Calif. Hort. Soc. J. 12:13-15. Jan. 1951. 81 C1293
- 35376 MAGILL, A. What's in a seed. African Violet Mag. 4(3):12-13, 47-48. Mar. 1951. 80 A18
- 35377 MALLOY, C. T. Tree trimming problems of electric power companies. Natl. Shade Tree Conf. West Chapter. Proc. 17:251-255. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218
- 35378 MARKS, MRS. J. For beginners only. Camellia Rev. 12(4):9. Jan. 1951. 97.31 So82 Varieties.
- 35379 MARSHALL, M. L. Are your Camellias planted too deep? Camellia Rev. 12(4):19. Jan. 1951. 97.31 So82
- 35380 MASCARO, T. Park turf. Parks & Recreation 34(3):11-13. Mar. 1951. 98.8 P23
- 35381 MATHIAS, M. E. Revision of the park administrator's tree list. Natl. Shade Tree Conf. West Chapter. Proc. 17:222-225. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218 Southern California.
- 35382 MATTOON, H. G. Holly trees for extra income. Pa. Farmer 144:106-107. Feb. 10, 1951. 6 P383
- 35383 MAXON, M. A. Siberian elm, a Great Plains 'toughie.' S. Dak. Farm & Home Res. [S. Dak. Sta.] 2:28-30. Winter 1951. 100 So82S
- 35384 MEHLISCH, K. Gedanken zur stiefmütterchen zucht. Saatgut-Wirt. 2:277-278. Dec. 1950. 61.8 Sal Viola.
- 35385 MELVILLE, R. Conifers coning in 1950. Roy. Hort. Soc. J. 76:19-22. Jan. 1951. 84 L84J
- 35386 MITCHELL, S. B. Leaning on my hoe. The dwarfier and the less known annuals. Calif. Hort. Soc. J. 12:20-28. Jan. 1951. 81 C1293
- 35387 MORRISON, B. Y. Further notes concerning the Glenn Dale Azaleas. Arboretum B. 13(4):7-8, 36. Winter 1950. 451 Ar1
- 35388 MORTIER, J. C. M. DE. Succulents in the garden. (In Dutch.) Succulenta 1950:92-93. Nov./Dec. 1950. 450 Su12
- 35389 MOTT, W. P., JR. Our growing street tree problem. Natl. Shade Tree Conf. West Chapter. Proc. 17:220-222. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218
- 35390 MULLIGAN, B. O. In the arboretum—effects of winter on trees and shrubs. Arboretum B. 13(4):1-4, 28-30. Winter 1950. 451 Ar1 Effect on different varieties.
- 35391 NATIONAL CACTUS AND SUCCULENT SOCIETY (GT. BRIT.). The thrill of cactus-growing, by D. Everitt. Nottingham, 1950. 12 p. 96.3 N21



- 35392 NATIONAL SHADE TREE CONFERENCE. Twenty-sixth conference, August 21, 22, 23, 24 and 25, 1950, Syracuse, New York. Proceedings. Wooster, Ohio, 1950. 310 p. 99.9 N218
- Combined with Proceedings of Seventeenth Western Chapter, National Shade Tree Conference, May 24, 25, 26 and 27, 1950, Long Beach, California (p. 178-289).
- 35393 NAZAREVSKIĬ, S. I. Achievements of Soviet ornamental horticulture. (In Russian.) Sad i Ogorod 1950(11):70-72. Nov. 1950. 80 Sa13
- 35394 NOLAN, F. L. Can the ornamental value of trees in a utility right of way be preserved by line clearance trimming? Natl. Shade Tree Conf. West Chapter. Proc. 17:265-266. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218
- 35395 NORTHWEST BULB GROWERS ASSOCIATION. Northwest Bulb Growers Association. Sumner, Wash., 1950? 4 p. 96.4 N81
- 35396 NUBOURGH, Y. L'aménagement des zones de recul et les contraintes administratives. B. Hort. (n.s.):6:3-9. Jan. 1, 1951. 80 B873
- Landscape gardening.
- 35397 OSTBO, E. Propagation of Rhododendrons. Arboretum B. 13(4):17-18. Winter 1950. 451 Ar1
- 35398 PAHLMAN, A. Some rose names with history. (In Swedish.) Trädgårdstidningen 22(12):8,26-27. Dec. 1950. 80 T67
- 35399 PEIRSON, H. B., and NASH, R. W. The planting and care of shade trees. Maine. Forest Serv. B. 14, 32 p. Ref. 1950. 99.9 M282B
- 35400 PERRATEN, A. E. Trees and their relationship to your electrical service. Green Thumb 8(2):20-22. Feb. 1951. 80 G82
- 35401 PETRICK, E. Try a strawberry jar. African Violet Mag. 4(3):10-11. Mar. 1951. 80 Af8
- 35402 PHILLIPS, G. A. R. Hedges in the small garden. Nurseryman & Seedsman 112:96-98. Jan. 11, 1951. 80 N933
- 35403 PHILLIPS, G. A. R. Herbaceous borders. Nurseryman & Seedsman 112:392-393. Feb. 8, 1951. 80 N933
- 35404 PIERCE, G. L. Little glads are back. Flower Grower 38(3):46-47, 84-85. Mar. 1951. 80 M72
- 35405 PRESTON, F. G. Some greenhouse Salvias. Gard. Chron. 129:28. Jan. 27, 1951. 80 G162
- 35406 PRIDHAM, A. M. S. New York State Arborist's School. Arborist's News 16:16-19. Feb. 1951. 99.8 Ar14
- 35407 PROCTOR, R. C. Queen for a day. Natl. Cactus & Succulent J. 5:62-63. Dec. 1950. 450 N21
- Echinocereus pectinatus rigidissimus.
- 35408 REGAN, C. W. The sandwich method of growing the Juliana hybrids. Amer. Primrose Soc. Q. 8:38, 40. Jan. 1951. 96.575 Am3
- 35409 REITER, V., JR. The plant's the thing! Calif. Hort. Soc. J. 12:16-19. (To be cont.) Jan. 1951. 81 C1293
- Landscape gardening.
- 35410 RICHARD, G. Le gigantisme provoqué. Cactus [Paris] 26:100. Dec. 15, 1950. 450 C114
- A cutting of Mammillaria pusilla.
- 35411 RODALE, A. A. Miniature arrangements. Org. Gard. 18(3):23. Mar. 1951. 56.8 Or3
- 35412 ROEWKAMP, F. W. Trees for recreational areas. Natl. Shade Tree Conf. West Chapter. Proc. 17:229-230. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218
- 35413 ROPER, L. Lilies of Korea. Gard. Illus. 68:70-71. Mar. 1951. 80 G169
- 35414 ROPER, L. Superb planning at Tintinhull. Gard. Illus. 68:8-9. Jan. 1951. 80 G169
- 35415 ROWLEY, G. D. A seaborne cactus. Natl. Cactus & Succulent J. 5:63. Dec. 1950. 450 N21
- Echinopsis.
- 35416 SANBORN, H. C. How I grow Begonias in Vermont. Begonian 18:28-27. Feb. 1951. 96.511 B39
- 35417 SCANLON, E. H. Resurrect exotic trees is Committee program. Trees 11(2):8-9, 25-26. Jan./Feb. 1951. 99.8 W52
- Shade Tree Selection Committee of National Shade Tree Conference.
- 35418 SCHWITTERS. Pappeln zur alleebaumbepflanzung. Landwirtbl. Weser-Ems 1951:7-8. Jan. 4, 1951. 18 L2345
- 35419 SCOFIELD, C. E. A flowering "fence"; here's a vigorous rose hedge which grows into an impenetrable barrier. Flower Grower 38(3):14-16. Mar. 1951. 80 M72
- 35420 SCOTT, I. I am a violet man; though a novice at the game of raising African violets, growing them has come easy. New Eng. Homestead 124(3):43-44. Feb. 10, 1951. 6 N442
- 35421 SECKMAN, M. C. Annual adventure; there's lots of garden enjoyment in growing new flowers from seed. Flower Grower 38(3):27-30. Mar. 1951. 80 M72
- 35422 SHARP, M. L. Camellias as garden plants. Flower Grower 38(3):52-53, 77. Mar. 1951. 80 M72
- 35423 SHEPHERD, R. E. The ABC of rose growing. Flower Grower 38(3):40-41, 66. Mar. 1951. 80 M72
- 35424 SJOBERG, G. H. Something new and unusual in the flower window. (In Swedish.) Trädgårdstidningen 22(12):18-19. Dec. 1950. 80 T67
- 35425 SMITH, H. Wildlings, from foreign lands, these Irises. Smallholder 84(2124):15. Feb. 2, 1951. 10 Sm1
- 35426 SOHNER, R. Pruning and shaping practices in line clearance trimming. Natl. Shade Tree Conf. West Chapter. Proc. 17:263-264. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218
- 35427 SPECHT, R. C. Preservation of the color and shape of flowers. Fla. Engin. & Indus. Expt. Sta. B. 40, 29 p. Dec. 1950. 290.9 F66
- Includes preservation of specimens in plastic.
- 35428 SPENCER, S. J. Too many Dahlias? Nurseryman & Seedsman 112:32-33. Jan. 4, 1951. 80 N933
- 35429 STANLEY-WRENCH, M. Roses by the sea. Countryman [Burford] 43:115-117. Spring 1951. 281.28 C832
- 35430 STEVENSON, V. Eternal triangle: Yuletide floristry. Fruit, Flower & Veg. Trades' J. 98(24):33, 35. Dec. 9, 1950. 80 F946
- 35431 STINSON, R. Progress report on the research work with Saintpaulias. African Violet Mag. 4(3):28-29. Mar. 1951. 80 Af8
- 35432 STIRLING, W. Sanderara alpha. Orchid Rev. 59:23-27. Feb. 1951. 80 Or15
- 35433 TAYLOR, F. J. They've grown some new posies for the ladies; now the irrepressible Mr. Burpee has turned up with some resplendent new blooms that anyone can raise right in his own back yard. Sat. Evening Post 223(38):21, 134-135, 137. Mar. 17, 1951. 110 Sa8
- 35434 THOMAS, D. G. Modern sweet peas. Gard. Chron. 129:12. Jan. 13, 1951. 80 G162
- 35435 THOMAS, G. The rose of Provins. Gard. Chron. 129:44. Feb. 10, 1951. 80 G162
- 35436 THE TIMES, LONDON. Survey of gardening in Britain. London, 1950. 16 p. 90.3 T48
- 35437 TORRANCE, D. J., JR. Elementary genetics with special reference to orchid hybridization. IV. Northwest. Orchid B. 1:8-10. (Concl.) Dec. 1950. 96.2 N81
- 35438 TORRIE, J. H., and FLAD, J. J. Gladiolus hybridizers. New Eng. Gladiolus Soc. Gladiolus Mag. 15:15-17. Feb. 1951. 96.43 N44 Suppl
- 35439 TRAVIS, M. Blossoms galore!!! African Violet Mag. 4(3):24-25. Mar. 1951. 80 Af8
- 35440 UITEWAAL, A. J. A. Sedum Stahlit. (In Dutch.) Succulenta 1950:86-87. Nov./Dec. 1950. 450 Su12
- 35441 U. S. PATENT OFF. Plant patents, 9 Nos. 1950-51. 156.65 P69
- Contents: 997. Fisher, E. G. Rose plant. 2 p., 1 col. pl. Dec. 12; 998. Fisher, E. G. Rose plant. 2 p., 1 col. pl. Dec. 12; 999. Fisher, E. G. Rose plant. 2 p., 1 col. pl. Dec. 12; 1000. Eddie, H. M. Rose plant. 2 p., 1 col. pl. Dec. 19; 1001. Meiland, F. Rose plant. 2 p., 1 col. pl. Jan. 16; 1002. Elmer, C. A. Rose plant. 1 p., 1 pl. Jan. 30; 1003. Brownell, J. D. Rose plant. 3 p., 1 col. pl. Feb. 13; 1004. Howard, P. J. Rose plant. 2 p., 1 col. pl. Feb. 13; 1006. Howard, P. H. Rose plant. 1 p., 1 col. pl. Feb. 27.
- 35442 VINCENT, S. Le bouturage des plantes de maison. Foyer Rur. [Montreal] 10(4):2, 5. Jan. 1951. 7 F83
- 35443 VIRGINIA STATE HORTICULTURAL SOCIETY. Proceedings, fifty-fifth annual meeting held at Roanoke, Virginia, January 15, 16, 17, 1951. Va. Fruit 39(2), 286 p. Feb. 1951. 81 V81B
- 35444 WARD, J. D. U. The form of cedars of Lebanon [Cedrus libani]. Gard. Illus. 68:12-13. Jan. 1951. 80 G169
- 35445 WATKINS, J. V. Annual flowers. Fla. Agr. Col. Ext. B. 133, rev., 48 p. Oct. 1950. 275.29 F66
- 35446 WEAVER, R. Some notes on Dyckia remotiflora (Otto & Dietr.). Natl. Cactus & Succulent J. 5:61. Dec. 1950. 450 N21



- 35447 WEBB, G. E. V. *Begonia optima* is cheap to grow. *Grower* [London] 34:1363,1365. Dec.30,1950. 286.83 M34
- 35448 WEBB, G. E. V. *Cupressus fletcheri* is a market plant. *Grower* [London] 35:385. Feb.24,1951. 286.83 M34
- 35449 WHITEHEAD, S. B. Fairest of gardens. *Field Annu.* 1951:86-90. 10 F45A  
Ornamental gardens in Bodnant, North Wales.
- 35450 WILCOX, R. S. Roses for us too. *Farmer* [St. Paul]. Gen. Ed. 69(5):48-49. Mar.3,1951. 6 F221f  
Culture and varieties.
- 35451 WILFLINGER, H. Die bouvardie. *Gartenbauwirtschaft* [Wien] 1950:273-274. Dec.10,1950. 80 G1936
- 35452 WILKIE, D. *Gentians*. Ed. 2. London, *Country Life*, 1950. 255 p. 96.5 W65
- 35453 WILSON, F. C. Fifteen favorite flowers; everybody may not agree with this selection of flowers but all of them serve a special purpose in brightening up the garden. *Family Herald & Wk. Star* 82(8):3,21. Feb.22, 1951. 7 F21
- 35454 WILSON, H. VAN P. *Geraniums, pelargoniums, for windows and gardens*. Water colors and line drawings by Natalie Harlan Davis. New York, Barrows, 1950. 248 p. 96.566 W69
- 35455 WILTSHIRE, G. Landscaping with roses. *Sunday Oregonian, Farm, Home, Gard.* 1951:8-9. Feb.18, 1951. 6 Su7
- 35456 WING, A. S. Golden gifts from the Far East. *Nat. Mag.* 44:152-154,159. Mar.1951. 409.6 N214  
*Chrysanthemums*.
- 35457 WITTROCK, G. I. Tulips. *Org. Gard.* 18(3): 24-25. Mar.1951. 56.8 Or3
- 35458 WYMAN, D. Forty-five of the best shrubs for Massachusetts gardens. *Arnoldia* 11:1-20. Mar.9,1951. 451 Ar6Ba
- 35459 YODER, H. Snapdragons in season. *Florists' Exch.* 116(11):23,43,45. Mar.17,1951. 80 F666
- 35460 ZOLOTAREV, V. P. Native lilac varieties. (In Russian.) *Sad i Ogorod* 1950(11):73-76. Nov.1950. 80 Sa13
- Vegetable and Truck Crops (Including Potatoes)**
- 35461 ALISOV, M. S. Protective screens—important method for increasing productivity of agricultural crops. (In Russian.) *Sad i Ogorod* 1950(11):49-56. Nov.1950. 80 Sa13  
Experiments with cucumbers screened by beans, corn, etc.
- 35462 ANDERSEN, E. M. Vegetable seedlings can be home-grown. *Utah Farmer* 71:216,219. Mar.15,1951. 6 D45  
Vegetable culture.
- 35464 AYALON, A. Expanded veg. section of Hassadeh. (In Hebrew.) *Hassadeh* 31:11-12. Oct.1950. 26 H27
- 35465 BANGA, O., and SNEEP, J. Horticultural plant breeding in Denmark. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13(10,sup.):289-311. Nov.1950. 86 N384  
English summary.  
Vegetables.
- 35466 BASSE, H. Neue gemüsesorten. *Saatgut-Wirt.* 2:269. Dec.1950. 61.8 Sa1
- 35467 BENEDIX, E. H. Kleiner pilzlehrgang für an-fänger. VIII. Welche pilze sammeln wir? *Nat. u. Nahr.* 4 (21/22):17-19. Nov.1950. 80 N218
- 35468 BERTHET. La pomme de terre en Corse. *Pomme de Terre Franç.* 13(135):7-9. Dec.1950. 75.8 P77
- 35469 BETZEMA, J., GEEL, J. D. W. VAN, and MELTZER, J. Checking of sprouting with seed potatoes during storage. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13:91-95. Feb.1950. 86 N384  
English summary.  
Spraying of crop with growth substances.
- 35470 BIJL, D. DE. Silver onions in Bommelerwaard. (In Dutch.) *Groenten en Fruit* 6:499. Jan.11,1951. 80 G89
- 35471 BOOTH, C. E. Growing potatoes. *Org. Gard.* 18(2):24-26. Feb.1951. 56.8 Or3
- 35472 BOUHELIER, R. La culture de la tomate au Maroc. *Rev. Agr. de l'Afrique du Nord* 48:924-927. Dec. 15,1950. 80 R326  
Also in *Terre Marocaine* 25(254):16-18. Jan.1951. 24 T44
- 35473 BOWERS, J. L. Contender and Topcrop are earliest varieties in bean tests at State College. *Miss. Farm Res.* [Miss. Sta.] 14(2):4. Feb.1951. 100 M69Mi
- 35474 BLOM, A. The witloof culture in the Boven-Betuwe and in Nijmegen. (In Dutch.) *Groenten en Fruit* 6: 371-372,411-412. Nov.30, Dec.14,1950. 80 G89
- 35475 BRITTINGHAM, W. H. Extra Early Blackeye, a reintroduced variety of Southern pea. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1314,3 p. Jan.29,1951. 100 T31P
- 35476 BRITTINGHAM, W. H. Purple Hull No. 49, a new variety of Southern pea. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1313,5 p. Jan.22,1951. 100 T31P
- 35477 BRITTINGHAM, W. H., MAXWELL, N. P., and PERRY, B. A. Texas 107, a new variety of green sprouting broccoli. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1331,3 p. Feb.24,1951. 100 T31P
- 35478 BRUMMER, V. Potato. (In Finnish.) *Siemen-julkaisu* 1950:58-70. 61.9 K48  
English summary.
- 35479 CAIN, R. F. Southern pea varieties for canning. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1329,3 p. Feb.20,1951. 100 T31P
- 35480 CASTRO R., J. Algunas anotaciones sobre el cultivo de papa en Boyacá. *Agr. Trop.* 6(2):60-61. Feb. 15,1950. 26 Ag8
- 35481 CHAVAN, V. M., CHAUDHARI, B. B., and PATIL, J. A. Economic seed rate for the 'chafa' gram of the Bombay State. *Poona Agr. Col. Mag.* 41:195-197. Nov.1950. 22 P79  
*Cicer arietinum*.
- 35482 COOK, H. H. The most rewarding vegetables. *Gard. Illus.* 68:51. Feb.1951. 80 G169
- 35483 CORTIN, B. *Tricholoma nudum*. (In Swedish.) *Skogsägaren* 26:247. Nov.1950. 99.8 Sk55
- 35484 COSPER, L. C., and LOGAN, H. B. How to grow vegetables; the complete garden guide to planning, growing, preserving, and storing vegetables, fruits, and berries. New York, Duell, Sloan and Pearce, 1951. 263 p. 91.15 C822
- 35485 COULTER, F. C. How vegetables grow. *Flower Grower* 38(3):54,63-64. Mar.1951. 80 M72
- 35486 CUMMINGS, M. B. Let's try the onion family. Onions are good sources of vitamins. *Org. Gard.* 18(3): 20-22. Mar.1951. 56.8 Or3
- 35487 DANVIG, A. M. Køkken gartneriet [Vegetable gardening]. København, Dansk Studieförslag, 1950? p.265-328. (Dansk Erhvervsgartneris Håndbog 5) 91 D23
- 35488 DUNGAN, G. H. 4 billion bu. seedbed. *Breeder's Gaz.* 116(4):18,25. Apr.1951. 49 B74  
Corn.
- 35489 DUNLAP, W. H. Better seed safeguards your potato crops. *Guide Post* 28(3):18-19. Mar.1951. 75.8 G94
- 35490 ECKHARDT, J. W. Okla. 1-3, Emerald new limas show promise. *N. J. Farm & Gard.* 22(2):42-43. Feb.1951. 6 G162
- 35491 EMILSSON, B., and GUSTAFSSON, N. The influence of storage conditions on the productivity of seed potatoes. (In Swedish.) *Lantbrukad. Tidskr.* 89:398-419. Ref. 1950. 104 Sw3  
English summary.
- 35492 ESSON, J. G. What's in a carrot. *Org. Gard.* 18(2):70-73. Feb.1951. 56.8 Or3
- 35493 FARISH, L. R. Dixielee; new pea variety, developed at Delta Station; will increase seed in 1951. *Miss. Farm Res.* [Miss. Sta.] 13(12):1,7-8. Dec.1950. 100 M69Mi
- 35494 FENNELL, J. L. Un nuevo tomate para los tropicos. *Rev. Nac. de Agr.* 44(549):30-31. Jan.1951. 9.4 R32
- 35495 FITZGERALD, O. A. Parma station spotlights hybrid onions. *Idaho Farmer* 69:73,89. Feb.1,1951. 6 G282
- 35496 FLAWN, L. Forcing rhubarb. *Fruit, Flower & Veg. Trades' J.* 98(24):31,36. Dec.9,1950. 80 F946
- 35497 FOLQUER, F., and BRUCHER, F. J. Informe preliminar sobre épocas para plantación y cosecha de la batata "Brasileira blanca" en Tucumán. Tucumán, 1950. 18 p. (Tucumán, Argentine Republic (City) Universidad. Instituto de Fitotecnia. Publicación No. 567) Ref. 75 F72



- 35498 FRASER, H. Good seed. *Gard. Illus.* 68:84,86. Mar.1951. 80 G169  
Vegetables.
- 35499 GILMAN, W. What's gardening without asparagus? *Kur. New-Yorker* 101:84. Feb.3,1951. 6 R88
- 35500 GT. BRIT. NATIONAL AGRICULTURAL ADVISORY SERV. Mushroom growing. Ed. 5. *Gt. Brit. Min. Agr. & Fisheries. B.* 34,68 p. 1950. 10 G794B
- 35501 GROENEWEGEN, J. H., MARKUS, A., and STEENBERGEN, G. Experiences with grafting of cucumbers in 1950. (In Dutch.) *Groenten en Fruit* 6:564-565. Feb.8,1951. 80 G89
- 35502 GUALBA, C. Cultivo del espárrago. *Cult. Mod.* 33:460-462. Dec.1950. 15 C89
- 35503 HAISMA, J. P. The culture of seed potatoes for export. (In Dutch.) *Friesch Landtbl.* 48:53. Jan.26, 1951. 12 F91
- 35504 HARDENBURG, E. V. Effect of various methods of handling seed potatoes in preparation for planting. *Amer. Potato J.* 28:525-529. Feb.1951. 75.8 P842
- 35505 HARRIS, J. H. The farm's best-paying crop. *Carolina Co-op.* 29(3):14-15,20. Mar.1951. 72.8 N81  
Vegetable gardens.
- 35506 HASTINGS, W. R. New All-America vegetables for 1951. *Org. Gard.* 18(2):34-35. Feb.1951. 56.8 Or3
- 35507 HAUCK, Wie steht es um den kartoffelbau? *Bad. Landwirt. Wchnbl.* 118:104-105. Feb.17,1951. 18 B142
- 35508 HEDOU, Si j'étais sélectionneur. *Pomme de Terre Franç.* 13(135):17-20. Dec.1950. 75.8 P77
- 35509 HEIMBURGER, Der zweck bestimmt die sorten! *Bauern Ztg.* 4(5):5-6. Feb.2,1951. 18 B324  
Potatoes in Germany.
- 35510 HENNIG, B. Pilze ohne kunst und müh'. *Nat. u. Nahr. Ausg. B* 4:118-120. Oct.1950. 80 N218B
- 35511 HJORT, P. Norwegian mushroom growing. *MGA Bulletin* 22:39. Jan.1951. 80 M97
- 35512 HOWSE, R. R. My way of growing. *MGA Bulletin* 22:27-29. Jan.1951. 80 M97  
Mushrooms.
- 35513 INIGUEZ GARCIA, J. El cultivo de las coles. 4. *Col de Bruselas. Tierra [Mexico]* 6:87-89,116. Feb. 1951. 8 T445
- 35514 JEREMY, E. In praise of chicory. *Farm & Gard. Digest* 2(7):29-30. Dec.1950. 56.8 Or32
- 35515 KELBERT, D. G. A. New vegetable varieties. II. *Fla. Grower* 59(3):8,15. Mar.1951. 80 F6622
- 35516 KHARCHENKO, V. A. Harvesting and storage of root crops. (In Russian.) *Sofialist. Zhivotnovod.* 12 (9):11-14. Sept.1950. 49 So71
- 35517 KIDNER, A. W. Breed asparagus like cattle. *Farmer & Stock-Breeder* 65:497. Feb.13,1951. 10 F228
- 35518 KREISER, R. F. Kern County [California] spuds. *Fruit & Veg. Rev.* 12(12):14-15. Mar.1951. 80 C1224
- 35519 KURZENHAUSER, J. New vegetable varieties for 1951. *G. L. F. Week. Serv. Sched.* 15(27):1,3. Jan.8, 1951. 280.28 G113W
- 35520 KURZENHAUSER, J. Vegetable varieties grow in popularity. *G. L. F. Week. Serv. Sched.* 15(30):2. Jan.29,1951. 280.28 G113W
- 35521 LACHMAN, W. H. Gold Mine is the sweet corn opportunity for 1951. *East. States Coop.* 27:7. Jan.1951. 280.28 Ea7  
Hybrid.
- 35522 LEGHIS, L. M. La culture des pommes de terre. *Paysan Franç.* 26(398):16. Feb.1951. 14 P29
- 35523 LITTLEFIELD, L., and MURPHY, E. 1950 vegetable variety trials. *Maine. Agr. Expt. Sta. Mimeog. Rpt.* 14,14 p. Jan.1951. 100 M28M
- 35524 LOHWAG, K. Crops from sawdust. *MGA Bulletin* 22:20-21. Jan.1951. 80 M97  
Mushrooms.
- 35525 LORENZ, O. A. Summer squash harvest time; growth rates and chemical composition of fruits of four varieties studied to determine optimum harvest time. *Calif. Agr. [Calif. Sta.]* 5(1):6,12. Jan.1951. 100 C12Cag
- 35526 MCLEAN, F. T., and WATTS, A. V. The Virginian sweet potato. *South. Planter* 112(2):16-17. Feb. 1951. 6 So89
- 35527 MAGELLI, E. Experiments with tomatoes. (In Italian.) *Glor. di Agr.* 61:61. Feb.25,1951. 16 R1G  
Varietal studies.
- 35528 MALMONTE, J. M. La destruction des fanes. *Pomme de Terre Franç.* 13(135):3-6. Dec.1950. 75.8 P77
- 35529 MARTINI. Frühkartoffelsortenversuche 1948 bis 1950. *Württemb. Wchnbl. f. Landwirt.* 118:132. Feb.17,1951. 18 W96
- 35530 MAXWELL, N. P., and LEEPER, P. W. Sweet corn variety tests in the Lower Rio Grande Valley, 1950. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1317,2 p. Jan.30,1951. 100 T31P
- 35531 MENIS, J. Cutting down the green parts of the potato plant. (In Hebrew.) *Hassadeh* 31:19-20. Oct.1950. 26 H27
- 35532 MINGUZZI, L. Sugar loaf chicory; Milanese chicory. (In Italian.) *Humus* 6(12):24-25. Dec.1950. 16 H88
- 35533 MITCHELL, C. E., and HUELSEN, W. A. Growing melons in Illinois. *Ill. Agr. Col. Ext. C.* 675, 27 p. Dec.1950. 275.29 IL62C
- 35534 MOEGLING. Kartoffelsortenversuche mit späten und mittelfrühen sorten 1948 bis 1950. *Württemb. Wchnbl. f. Landwirt.* 118:172-173. Mar.3,1951. 18 W96
- 35535 MOELLER, S. Onion varieties. (In Hebrew.) *Hassadeh* 31:16-19. Oct.1950. 26 H27
- 35536 MORRISON, G. Do you know these vegetables? *Flower Grower* 38(3):55,89-91. Mar.1951. 80 M72
- 35537 MORRISON, G. Tomato varieties. *Seed World* 68(4):10,12,46. Feb.16,1951. 61.8 Se52
- 35538 MORROW, M. G. Plant something new. *Sci. News Let.* 59:186-187. Mar.24,1951. 470 Sci24  
New varieties of vegetables.
- 35539 MUSHROOM RESEARCH ASSOCIATION. Report for year 1949. *Yaxley, Peterborough, 1950.* 56 p. 84 Y2
- 35540 NEW MIDGET vegetables for 1951. *Org. Gard.* 18(3):33. Mar.1951. 56.8 Or3
- 35541 NISSELEY, C. H. New Jersey vegetables. *N. J. State Hort. Soc. Hort. News* 32:2324-2325. Jan.1951. 81 N46
- 35542 NORTH, C. Vegetable seed production in Holland. *Gt. Brit. Min. Agr. Agriculture* 57:531-534. Feb. 1951. 10 G79J
- 35543 OBERHAGEMANN. Das vorkelmen der kartoffeln. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:202. Feb.8,1951. 18 L2346
- 35544 ODLAND, M. L. Influence of plant spacing on yield of snap beans. *Pa. Agr. Expt. Sta. Prog. Rpt.* 36, 4 p. Nov.1950. 100 P381P
- 35545 ONISHCHENKO, A. I. Potato varieties of Ulanovsk [Potato] Experiment Station in Ukraine. (In Russian.) *Sad i Ogorod* 1950(11):66-67. Nov.1950. 80 Sa13
- 35546 OULIÉ, P. Les légumes de primeurs dans la région toulousaine. *Soc. d'Hort. de la Haute-Garonne. Ann.* (ser.5)16:212-215. Oct./Dec.1950. 86 So194
- 35547 PALUDAN, H. Mushroom difficulties in Denmark; their influence on cultivation. *MGA Bulletin* 22:29-32. Jan.1951. 80 M97
- 35548 PARKER, M. M. Recent developments in vegetable production. *Va. Fruit* 39(2):99-103. Feb.1951. 81 V81B
- 35549 PATEL, G. A. Double bean. *Poona Agr. Col. Mag.* 41:211-215. Nov.1950. 22 P79  
Cultivation and production costs.
- 35550 PAVLOVICH, V. On winter cabbage [Derbentskaia variety in Dagestan]. (In Russian.) *Sad i Ogorod* 1950(11):77. Nov.1950. 80 Sa13
- 35551 PICKFORD, R. Two rows of melons. *Gard. Illus.* 68:84. Mar.1951. 80 G169
- 35552 PORTE, W. S. Tomato hybrids between fertile lines without flower emasculation. *Seed World* 68(3):18, 21,46-47. Feb.2,1951. 61.8 Se52
- 35553 PRAILL, F. E. M. Early crops must have the best seed. *Grower [London]* 34:1355-1357. Dec.30,1950. 286.83 M34  
Vegetables.
- 35554 PREST, R. L. Cabbage, cauliflower, and related crops. *Queensland Agr. J.* 71:316-324. Dec.1950. 23 Q33  
Culture.
- 35555 RANNINGER, R. Sicherer und rascher fortschritt in der bohnenzucht durch stecklinge. *Gartenbauwirtschaft [Wien]* 1950:269. Dec.10,1950. 80 G1936
- 35556 REINECKE, V. Asparagus. *Farming So. Africa* 26(298):4-5. Jan.1951. 24 So842  
Culture and marketing.
- 35557 RICHARDS, A. A. When winter lettuce fails to heart. *Grower [London]* 35:70-71,73. Jan.13,1951. 286.83 M34



- 35558 RHODES, J. Vegetable strain is all-important. Grower [London] 34:1266. Dec.16,1950. 286.83 M34
- 35559 RODALE, R. Fortify your diet by planting for vitamins. Org. Gard. 18(2):28-30. Feb.1951. 56.8 Or3 Vegetables and fruit.
- 35560 ROMANINI, A. In tomato culture, it is much more important to know how to read the plant than to read books. (In Italian.) Avvenire Agr. 59:11-12. Jan.1951. 16 Av9
- 35561 SACHS, L. 'Vegetative hybridization' in the tomato. Nature [London] 167:282-283. Feb.17,1951. 472 N21
- 35562 SCHERMERHORN, L. G. Queens—a new early tomato. Rur. New-Yorker 101:84,95. Feb.3,1951. 6 R88
- 35563 SCHRÖDER. Pflanzkartoffelvermehrung 1950 in Weser-Ems. Landwirtbl. Weser-Ems 1951:8-9. Jan. 4,1951. 18 L2345
- 35564 SHARP, F. H. The ideal early pea is wanted. Grower [London] 35:218-219. Feb.3,1951. 286.83 M34 Varieties of various vegetables.
- 35565 SHERRARD, D. Efficiency in the vegetable garden. Sunday Oregonian, Farm, Home, Gard. 1951:10-11. Mar.4,1951. 6 Su7
- 35566 SHEWELL-COOPER, W. E. Onions and orders. Co-op. Home Mag. 56(2):14. Feb.1951. 280.28 W563 Culture.
- 35567 SIMON Y REGALDO, E. Cultivo de la berenjena. Campo [Tacuba] (ser. 2) 18(706):55,58-60,62-63. Dec.31,1950. 8 C157
- 35568 SMITH, O. Potato production methods change. Farm Res. [N. Y. State Sta.] 17:5. Jan.1951. 100 N48A
- 35569 STEVENS, R. F. Let's grow cucumbers for processing and marketing. Del. U. Agr. Ext. Folder 20,5 p. Apr.1950. 275.29 D37W
- 35570 TAMONDONG, S. Onion culture in C. L. A. S. Agr. & Indus. Life 13:8. Jan.1951. 25 Ag8 Central Luzon Agricultural School.
- 35571 TAPLEY, W. T. New varieties of green podded beans. Farm Res. [N. Y. State Sta.] 17:4. Jan.1951. 100 N48A
- 35572 THEISS, L. E. All eyes on snap beans, food plant extraordinary. Org. Gard. 18(3):54-58. Mar.1951. 56.8 Or3
- 35573 THIJN, G. A. Potato improvement in the North-east Polder. (In Dutch.) Nieuwe Veldbode 17:302-303. Feb.1,1951. 12 V542N
- 35574 TIEDJENS, V. A. The garden should provide both food and health. East. States Coop. 27:6-7. Jan. 1951. 280.28 Ea7 Vegetable culture.
- 35575 TIEDJENS, V. A. Trends in research on vegetable crops. (Abs.) Va. J. Sci. (n.s.):1:330. Sept.1950. 470 V81
- 35576 TILKIN, N. Étude des rendements d'une collection de variétés de tomate. Inst. Agron. et Sta. de Rech. de Gembloux. B. 18(1/2):164-179. 1950. 105.1 G285 English summary.
- 35577 TILKIN, N. La tomate. B. Hort. (n.s.):6:14-16. Jan.1,1951. 80 B873
- 35578 TURLAPOVA, A. P. Toward a new advancement in potato culture. (In Russian.) Sad i Ogorod 1950 (11):63-65. Nov.1950. 80 Sa13
- 35579 VEGETABLE seed selections for 1951. East. States Coop. 27:14-29. Jan.1951. 280.28 Ea7
- 35580 VEREINIGUNG SCHWEIZERISCHER VER-SUCHS- UND VERMITTLUNGSSTELLEN FÜR SAAT-KARTOFFELN. 25 Jahre und 14. tätigkeitsbericht vom 1. July 1949 bis 30. Juni 1950. Brugg,1950. 67 p. 75.9 V58
- 35581 VIANNA, G. Let's plant sweet potatoes! (In Portuguese.) Chacaras e Quintais 83:27-30. Jan.15,1951. 9.2 C34 Chiefly culture.
- 35582 VORSTER, P. W. Cultural studies with onions in the Transvaal. IV. Direct sowing as against transplanting. Farming So. Africa 26(298):20-22. Jan.1951. 24 So842
- 35583 WARD, N. Provisión de semilla selecta para la siembra de papas. Serv. Coop. Interamer. de Prod. de Aliment. Inform. del SCIPA. Ser. para los Agr. 20:35-38. Sept.1950. 9.8 P4352
- 35584 WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Growing broccoli. W. Va. Agr. Col. Ext. Misc. P. 4, 4 p. Jan.1951. 275.29 W522M
- 35585 WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Growing cauliflower. W. Va. Agr. Col. Ext. Misc. P. 3, 4 p. Jan.1951. 275.29 W522M
- 35586 WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Growing potatoes. W. Va. Agr. Col. Ext. Misc. P. 6, 4 p. Jan.1951. 275.29 W522M
- 35587 WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Growing tomatoes. W. Va. Agr. Col. Ext. Misc. P. 5, 4 p. Jan.1951. 275.29 W522M
- 35588 WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Sweet corn production. W. Va. Agr. Col. Ext. Misc. P. 7,4 p. Jan.1951. 275.29 W522M
- 35589 WINDHAM, S. L. Study yields and shipping quality of Bell peppers. Miss. Farm Res. [Miss. Sta.] 13(12):1,6. Dec.1950. 100 M69M1
- 35590 WORK, P. Vegetable breeders offer new developments; improved strains available for trial in 1951. Mkt. Growers J. 80(2):7-8,10. Feb.1951. 6 M34 All-American Selections. Similar title in Better Farming Methods 23(3):20. Mar. 1951. 58.8 B46
- 35591 YARNELL, S. H. Vegetable breeding in the South. Rio Grande Val. Hort. Inst. Proc. 5:1-9. 1951. 81 L95
- 35592 YOUNG, P. A. Golden Sphere, a new potato variety. Tex. Agr. Expt. Sta. Prog. Rpt. 1324,1 p. Feb. 10,1951. 100 T31P Also in Mkt. Growers J. 80(2):12,28. Feb.1951. 6 M34
- 35593 ZANDE, R. VAN DER. Endive culture the year round. (In Dutch.) Groenten en Fruit 6:498-499. (To be cont.) Jan. 11,1951. 80 G89
- 35594 ZANTEN, E. VAN, and BOER, W. DEN. Culture of scorzonera. IV. (In Dutch.) Groenten en Fruit 6: 324. Nov.9,1950. 80 G89

## WEEDS AND POISONOUS PLANTS

- 35595 BALL, C. E. There is less work and more profit; farming with chemicals. Farm & Ranch South. Agr. 81(2):12-13. Feb.1951. 6 T31 Chemical weed control.
- 35596 BELLUE, M. K. Current status of Halogeton in California. Calif. Dept. Agr. B. 40:11. Jan./Mar.1951. 2 C12M
- 35597 BLACKMAN, G. E. La toxicidad selectiva y el desarrollo de los destructores de malezas. Tambo y Chacra 24(786):3. (To be cont.) Jan.12,1951. 44.8 T15
- 35598 BOGUSCH, E. R. A bibliography on mesquite. Tex. J. Sci. 2:528-538. Ref. Dec.30,1950. 470 T31
- 35599 BRIGGS, G. M. Clean seed and clean feed mean better weed control. Hoard's Dairyman 96:258-259. Mar. 25,1951. 44.8 H65
- 35600 BURBACK, H. J. Halogeton spread imperils ranges. West. Farm. Life 53(2):8,12. Jan.15,1951. 6 R153 Chemical control and range management.
- 35601 BUTLER, E. Mesquite finally meets its match. Prog. Farmer, Tex. Ed. 66(3):16,180. Mar.1951. 6 T311 Control with 2,4,5-T.
- 35602 CARRELL, W. S., and DAHNE, B. The Talquin plan. Is there an antidote for the deadly green poison that is spreading slowly over the face of Florida? A few private citizens had remarkable success with the Talquin plan. Will it help eradicate hyacinths in your home county? Fla. Wildlife 5(8):6-8,25. Jan.1951. 410 F663
- 35603 COLE, C. E., DOERY, A. C., and MCALPIN, D. M. Weed control in carrot crops. Victoria. Dept. Agr. J. 48:549-552. Dec.1950. 23 V66J
- 35604 CONNOR, H. E. Poisonous plants in New Zealand. III. New Zeal. J. Agr. 81:551-552. Dec.15,1950. 23 N48J
- 35605 CORNELIUS, D. R., and GRAHAM, C. A. Selective herbicides for improving California forest ranges. J. Range Mangt. 4:95-100. Mar.1951. 60.18 J82
- 35606 DANIELSON, L. L. Recent research on weed control in strawberries, cane fruits, and blueberries. Va. Fruit 39(2):166-171. Feb.1951. 81 V81B
- 35607 DAUGUET, P. Le "déshebrant carottes." Phytoma 3(20):6-11. Nov.1950. 464.8 P563



- 35608 DEARDEN, J. Farm weeds. Young Farmers' Club Booklet 23, 48 p. June 1950. 10 Y82 Identification and control.
- 35609 DEROSE, H. R. Crabgrass inhibition with O-isopropyl N-(3-chlorophenyl) carbamate. *Agron. J.* 43: 139-142. Ref. Mar. 1951. 4 Am34P
- 35610 LE DESHERBAGE sélectif des céréales. *Terre & Météorologie* 25(254):1-10. Jan. 1951. 24 T44
- 35611 DREES, H. Pflanzenschutz in England. *Gesunde Pflanzen* 2:255-256. Oct. 1950. 464.8 G33 Chiefly weed control.
- 35612 EHRENBURG, P. Moos auf den Grünland und seine Bekämpfung. *Allgäuer Bauernbl.* 19:58. Feb. 1, 1951. 18 AL53
- 35613 ELLIS, F. W. Use of petroleum as a weed-killer. *Grower* [London] 35:75, 77. Jan. 13, 1951. 286.83 M34
- 35614 EMILSSON, B., and GUSTAFSSON, N. Hormone preparation for control of weeds in potatoes. (In Swedish.) *Lantmannen* 34:947-949. Dec. 9, 1950. 11 L234
- 35615 EMPLOI du dicotox dans la destruction des mauvaises herbes. *Madagascar. Insp. Gén. des Serv. Agr. B. Agr.* 3(24):13-17. June 1950. 25 M26 A herbicide whose active ingredient is 2,4-D.
- 35616 ENGE, G. Brush control with hormone derivative. (In Swedish.) *Kalmar Läns Norra Hushållssk. Kvartalskr.* 10:113-114. 1950. 11 K12
- 35617 EVANS, H. The control of weeds with selective synthetic herbicides in the Colony of Mauritius. *Plant Protect. Overseas Rev.* 2:10-19. Jan. 1951. 464.8 P69
- 35618 FERGUSON, M. H., and WILSON, C. G. Crabgrass (*Digitaria*) control. *USGA Journal* 3(7):27-31. Feb. 1951. 60.18 Un32
- 35619 FEUERSTEIN, H. Thüringer Kräuterbericht einmal anders. *Nat. u. Nahr.* 4(19/20):11-12. Oct. 1950. 80 N218
- 35620 FISHER, C. E., YOUNG, D. W., and MARION, P. T. Control of mesquite. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1320, 7 p. Feb. 5, 1951. 100 T31P
- 35621 FISHER, C. E., and YOUNG, D. W. It's quite a problem, this control of mesquite. *Sheep & Goat Raiser* 31(5):16-17, 44-45. Feb. 1951. 45.8 Sh3
- 35622 FITZGERALD, O. A. Where do weeds come from? Some were brought in by accident, some by design. To discourage their spread make sure you plant weed-free seeds. *Idaho Farmer* 69:162, 173. Mar. 1, 1951. 6 G282
- 35623 FOILES, M. W. Results of poisoning western hemlock. *Nowest. Sci.* 25:41-47. Feb. 1951. 470 N81
- 35624 FREED, V. H., and BIERMAN, H. E. IPC—a new grass killer. *Crops & Soils* 3(6):25-26. Mar. 1951. 6 W55 O-Isopropyl-N-phenyl carbamate.
- 35625 GARAY LÓPEZ, H. Lucha contra las malezas: un viejo problema agrícola. *Tractorista* 3(15):12-15. Aug./Sept. 1950. 58.8 T676
- 35626 GLENDENING, G. E. What we are doing about undesirable range plants. In U. S. Forest Serv. Southwestern Forest and Range Experiment Station. Ranch Day, October 9, 1950, p. 6-9. Tucson? 1950. 1.9622 ScSo81
- 35627 GUZMAN, M. DE. Notes on weed control. *Plowman* 6(3):24. Dec. 1950. 276.8 P72
- 35628 HAGSAND, E. Hormone derivatives in the spring grain summer 1950. (In Swedish.) *Lantmannen* 35:147-148. Feb. 24, 1951. 11 L234 Weed control.
- 35629 HAHMANN, K., and MÜLLER, H. Unkrautbekämpfung in feld und garten. *Gesunde Pflanzen* 2:109-111. May 1950. 464.8 G33
- 35630 HARRIS, V. C. Chemical weed control cheaper in cotton tests. *Miss. Farm Res. [Miss. Sta.]* 14(2):1, 3, 5. Feb. 1951. 100 M69Mi
- 35631 IDAHO. AGRICULTURAL EXPERIMENT STATION. Halogeton—intermountain range menace. *Idaho. Agr. Expt. Sta. C.* 117, 4 p. Feb. 1951. 100 Id1 Also issued as Wash. State Col. Ext. C. 185, 4 p. Feb. 1951. 275.29 W27C
- 35632 ISELY, D., and SYLWESTER, E. P. Danger—untested seed. *Hoard's Dairyman* 96:203. Mar. 10, 1951. 44.8 H65 Weed control.
- 35633 KAPOOR, G. P. A new menace to soil fertility in the western district of Uttar Pradesh. *Agr. & Anim. Husb.* 1(3):43-45. Apr./Aug. 1950. 22 Ag86 Infestation of *Carthamus oxyacantha*.
- 35634 KLINGMAN, G. C. Weed war gains momentum; chemicals make headway against age-old nemesis of southern farmers. *South. Seedsman* 14(2):16, 53. Feb. 1951. 61.8 So8
- 35635 LAURENT, G. Pratique de l'utilisation des hormones sélectives pour la destruction des mauvaises herbes. *Inform. Marocaine* 526:1-2. Feb. 10, 1951. 281.8 In3
- 35636 LOUSTALOT, A. J. The control of grasses in newly planted sugar cane with TCA. *Sugar J.* 13(9):23. Feb. 1951. 65.8 Su391 Also in *Actualidades* 1951:54-55. Jan. 1951. 65.9 As52
- 35637 LOVERING, F. W. New chemical deadly in war on hyacinth. *Fla. Grower* 59(3):10, 22. Mar. 1951. 80 F6622 2,4-D derivative for control of *Eichhornia crassipes*.
- 35638 MCCULLY, W. G. Recovery and viability of Macartney rose seeds fed to cattle. *J. Range Mangt.* 4: 101-106. Mar. 1951. 60.18 J82 Study to prevent spread of *Rosa bracteata*.
- 35639 MARCOVITCH, S. Tests with sodium fluosilicate as an herbicide and as an activator for herbicides. *Agron. J.* 43:100. Feb. 1951. 4 Am34P
- 35640 MEADLEY, G. R. W. *Cucumis myriocarpus*. *Austral. Dairy Rev.* 19:13. Jan. 1, 1951. 44.8 Au73 Toxicity to livestock and control.
- 35641 MUZIK, T. J., LUVISI, G., and CRUZADO, H. J. A method for statistical evaluation of new herbicides. *Actualidades* 1951:44-48. Jan. 1951. 65.9 As52
- 35642 MUZIK, T. J., LOUSTALOT, A. J., and CRUZADO, H. J. Movement of 2,4-D on soil. *Agron. J.* 43:149-150. Mar. 1951. 4 Am34P
- 35643 ORCHARD, H. E. Weed control. *Queensland Prod.* 32(21):17-19. Nov. 22, 1950. 23 Q35
- 35644 PANELLA, A. Damages produced by the weeds on alfalfa and the employment of selective herbicides. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 5:111-132. 1951. 16 An76 English summary.
- 35645 PANELLA, A. Practical aspects of control of weeds infesting wheat with selective herbicides. (In Italian.) *Humus* 6(12):11-12. Dec. 1950. 16 H88
- 35646 PETERSEN, H. I. Experiences with the effect of chemical herbicides in 1950. (In Danish.) *Dansk Landbr.* 70:17-18, 34-36. Jan. 11-18, 1951. 280.28 V91
- 35647 PETERSEN, W. Nachwirkung von Hormonmitteln auf die Gründungs- und Zwischenfrucht. *Gesunde Pflanzen* 2:303. Dec. 1950. 464.8 G33 Weed control in oats and after-effect on rape.
- 35648 PIACCO, R. Importance of uniform distribution of herbicides used in rice fields. (In Italian.) *Colt. e Gior. Vinc. Ital.* 96:317-318. Nov. 30, 1950. 16 C72
- 35649 SARFATTI, G., and SCARAMUZZI, F. Studies on the weeds of cultivated land in Italy. II-III. (In Italian.) *Nuovo Gior. Bot. Ital. (n.s.)* 56:21-105. Ref. 1949. 450 N92 English summary.
- 35650 SCHEIBE, K. Spritzbrühebedarf bei der Unkrautbekämpfung. *Gesunde Pflanzen* 2:82-85. Apr. 1950. 464.8 G33
- 35651 SHAULIS, N., and DUGAN, D. R. Chemical weed control in the vineyard. *N. Y. Agr. Col. Cornell Ext. B.* 816, 6 p. Jan. 1951. 275.29 N48E
- 35652 SLAATS, M. Le problème de la destruction des plantes indésirables dans les prairies permanentes. *Rev. de l'Agr.* 3:1354-1371. Dec. 1950. 13 R322 English summary.
- 35653 STAMPER, E. R., and CHILTON, S. J. P. Johnson grass control. *Sugar B.* 29:149-151, 154-155. Feb. 15, 1951. 65.9 Am32
- 35654 STEWART, G. Healthy ranges resist Halogeton. *Idaho Farmer* 69:4. Jan. 4, 1951. 6 G282
- 35655 STIVER, E. N., REA, H. E., and JOHNSTON, J. R. Chemical control of Johnson grass at the Blackland Station, 1950. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1318, 2 p. Feb. 2, 1951. 100 T31P
- 35656 STRICKERS, J. Le désherbage sélectif au moyen de produits chimiques dans des cultures de semences de ray-grass anglais type à pâturer. *Rev. de l'Agr.* 3:1372-1389. Ref. Dec. 1950. 13 R322 English summary.
- 35657 SWANSON, C. R., and HELGESON, E. A. Wild oats control; a progress report. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:119-120. Jan./Feb. 1951. 100 N813B



35658 TAYLOR, J. P., and VILBRANDT, F. C. On-track research of chemical herbicides applicable to road-bed weed control for southeastern railroads. (Abs.) Va. J. Sci. (n.s.) 1:362-363. Sept. 1950. 470 V81

35659 TIDMARSH, C. E. Investigation of Karoo pastures. III. Elimination of useless plants. (In Afrikaans.) Wolboer 41:5,8. Dec. 1950. 45.8 W83

35660 WAGNER, J. Juniper control on the Apache Indian Reservation. Ariz. Cattlelog 6(5):38-40. Jan. 1951. 43.8 Ar42

35661 WILSON, J. R. W. Field notes on use of the herbicide IPC [Isopropyl N-phenyl carbamate]. Agr. Chem. 6(2):34-37, 91, 93-97. Ref. Feb. 1951. 381 Ag8

35662 WOODFORD, E. K. Experimental techniques for the evaluation of selective herbicides. Gt. Brit. Natl. Agr. Adv. Serv. Q. Rev. 9:1-10. Autumn 1950. 241 G796

35663 ZIMMERMAN, P. W., and HITCHCOCK, A. E. Herbicides. Indus. & Engin. Chem. 43:573-574. Mar. 1951. 381 J825

35664 ZÜRN, F. Bekämpfung des büßlings; steigerung des almertrages durch verbesserung der pflanzenbestände. Pflug 4:6-8. Jan. 1951. 19 P48

35665 ZÜRN, F. Bekämpfung von unkrautern auf alpen und bergwiesen. Auf der Alpe 1951:4-5. (Concl.) Jan. 1951. 18 Au3

Germany.

#### MISCELLANEOUS ECONOMIC PLANTS (Drug, Dye, Rubber, Etc.)

35666 AUFFRET, C., and TANGUY, F. Note sur la valeur alimentaire de l'arille de *Blighia sapida*. Inst. Pasteur de l'Afrique Occident. Franç. Rap. 1948:99-101. 1950. 448.9 In762

35667 BLANCO MACIAS, G. La producción de la nuez "tun"; la extracción de su aceite podría ser actividad de gran porvenir para el país. Tierra [Mexico] 6:81-83, 118-119. Feb. 1951. 8 T445

35668 BORELL, A. E. Russian-olive [*Elaeagnus angustifolia*] for wildlife and good land use. U. S. D. A. L. 292,8 p. 1951. 1 Ag84L

35669 BRUCKNER, K. Prüfungsarbeiten an heil- und gewürzpflanzen. Nat. u. Nahr. Ausg. B 4:115-116. Oct. 1950. 80 N218B

35670 CAMARGO, R. DE. Everybody wants to plant coffee. (In Portuguese.) Chacaras e Quintais 83:199-201. Feb. 15, 1951. 9.2 C34

35671 CÁRDENAS, M. Plantas alimenticias nativas de los Andes de Bolivia. Folia U. 4(4):86-108. (Cont.) Oct. 1950. 516 F71

35672 CARRIÈRE DE BELGARRIC, R. Notes sur la sélection du palmier à huile à Sumatra. Oléagineux 6:65-71. Feb. 1951. 77.8 OL2

35673 CAVAZZA, L. The garlic. (In Italian.) Colt. e Gior. Vinic. Ital. 96:345-347. Dec. 31, 1950. 16 C72

35674 CHOU, C. Y., and LI, L. Y. A preliminary study of eleven edible wild fruits in Kushan, Foochow. (In Chinese.) Fukien Agr. J. 11:119-124. June 1950. 22.5 F95

English summary.

35675 COURS, G. Le manioc à Madagascar. Agron. Trop. 6:76-77. Jan./Feb. 1951. 26 Ag86

35676 COWLES, R. B. Let's make the desert yield. Nat. Hist. 60:134-140. Mar. 1951. 500 N483J

35677 DIJKMAN, M. J. A commercial method for the propagation of *Strophanthus sarmentosus* A. P. D. C. Amer. J. Bot. 37:623-628. Ref. Oct. 1950. 450 Am36

35678 ERKAMO, V. *Artemisia absinthium* L., ihre volkstümlichen benennungen und verbreitung in Finnland. (In Finnish.) Suomalaisen Eläin- ja Kasvitiet. Seuran Vammon. Tiedonannot ja Pöytäkirjat (1949) 4:150-158. Ref. 1950. 410.9 SuTT

German summary.

35679 FOWLER, H. S. The two-faced plant [Portulaca oleracea]. Cornell Plantations 7:26-28. Winter 1950/51. 409.6 C812

35680 GOWDA, M. The story of pan chewing in India. Harvard U. Bot. Mus. L. 14:181-214. (Ref. Jan. 15, 1951. 451 H262

Areca catechu.

35681 GRIEBEL, H. Farbensymphonie im bienengarten. Niederösterr. Imker 1:292-294. Nov. 1950. 424.8 N55

35682 HAIM, S., and MICHAEL, B. The growing of garlic. (In Hebrew.) Hassadeh 31:15-16. Oct. 1950. 26 H27

35683 HEEGER, E. F. Sortenfragen im heil- und gewürzpflanzenbau. Nat. u. Nahr. Ausg. B 4:114-115. Oct. 1950. 80 N218B

35684 HOOGWERFF, H. Comparative tests of peppermint culture. (In Dutch.) Nederlandse Ver. tot Bevord. der Biol.-Dyn. Landmethode. Vruchtbare Aarde 8:99-100. Dec. 1950. 80 N28

35685 HUBERTY, Imker, pflanzen weidensträucher! Luxemburg. Bienen-Ztg. 65:184-185. Dec. 1950. 424.8 L97

35686 INDIAN COFFEE BOARD. Ninth annual report, (1948-49), v. 2. Bangalore, 1950. 54 p. 68.29 In23

35687 JOLLY, A. L. Field performance of cacao cuttings. Agr. Soc. Trinidad & Tobago. Proc. 50:239, 241-243, 245, 247-251, 253-255. Sept. 1950. 8 T73

35688 KITH Y TASSARA, M. Cultivo del guayule; la producción del caucho virgen en España. Montes 36:710-716. Nov./Dec. 1950. 99.8 M763

35689 KOSTERMANS, D., and GREVENSTUK, A. The action of *Phaseolus radiatus* (katjang idju) on the healing of wounds. Doc. Neerland. et Indonesica de Morbis Trop. 2:350-354. Ref. Dec. 1950. 448.8 D85

35690 LAVENANT-CLIFFORD, G. DE. Lalang versus rubber. Planter 26:552. Dec. 1950. 78.8 P69

35691 LI, C. S., CHANG, P. L., and YANG, S. L. The effect of stratification and other treatments on germination and establishment of Chinese olive seeds. (In Chinese.) Fukien Agr. J. 11:147a-156. June 1950. 22.5 F95

English summary.

Canarium.

35692 LOOS, C. A. Crop protection during plucking. Ceylon. Tea Res. Inst. Tea Q. 21(4):16-21. Dec. 1950. 68.18 C33

35693 LUM, E. A. The natives of southern Africa: their "medicine" in modern therapy. Sci. Mon. 72:183-185. Mar. 1951. 470 Sci23

Drug plants.

35694 MANN, C. E. T. Improving the quality of natural rubber. Planters' Chron. 45:622-624. Dec. 1, 1950. 22 P693

Hevea.

35695 MIKHAYLOVA, V. Toward the development of a stable feed supply base for silkworm production. (In Russian.) Sotsialist. Sel'sk. Khoz. 21(11):46-50. Nov. 1950. 281.8 So73

Chiefly on cultivation of mulberry trees.

35696 MOLFINO, J. F. Plantas medicinales; Cucurbitaceas. Chacra 21(240):74. Nov. 1950. 9 C34

Argentina.

35697 MOLFINO, J. F. Plantas medicinales: el "anis estrellado" y "la nuez moscada." Chacra 21(242):72-73. Jan. 1951. 9 C34

*Illicium verum* and *Myristica fragrans*.

35698 MOSTAJO, J. A. Flora apícola del Perú. Serv. Coop. Interamer. de Prod. de Aliment. Inform. del SCPA. Ser. para los Agr. 20:62-64. Sept. 1950. 9.8 P4352

35699 NOGUEIRA-NETO, P. Bees and flowering = from here on out. (In Portuguese.) Chacaras e Quintais 83:50-51. Jan. 15, 1951. 9.2 C34

Honey plants in Brazil.

35700 PADRÓN, L. Plantas medicinales de Cuba. Retiro Azucarero 6(19/20):48, 62. Sept./Dec. 1950. 65.8 R31

35701 PAZZANESE, F. Observations on frost protection in the United States of America and its adaptation to our coffee plantings. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 25:961-976. Dec. 1950. 68.29 Sa63

35702 PELLETT, F. C. Mountain cornflower, a perennial garden flower, useful for naturalizing on wasteland. Amer. Bee J. 91:103. Mar. 1951. 424.8 Am3

35703 PORTSMOUTH, G. B. Crop protection during recovery from pruning. Ceylon. Tea Res. Inst. Tea Q. 21(4):11-16. Dec. 1950. 68.18 C33

35704 PRATT, A. M. Coffee rehabilitation scheme; planting. Jamaica. Dept. Agr. Ext. C. 2, rev. 7 p. July 1950. 275.249 J22



35705 PRATT, A. M. Coffee rehabilitation scheme; pruning. Jamaica. Dept. Agr. Ext. C. 3, rev., 12 p. July 1950. 275.249 J22

35706 RAYNER, R. W. The Coffee Services' visit to Nyeri. Coffee Bd. Kenya. Mon. B. 15:460-461, 465. Nov. 1950. 68.29 C652

35707 RAYNER, R. W. The results of the multiple stem questionnaire. 3. Coffee Bd. Kenya. Mon. B. 15:462-465. Nov. 1950. 68.29 C652  
Coffee culture.

35708 ROJAS-PENA, E. Los cacaotales del Rio Guaviare. Agr. Trop. 7:27-32. (To be cont.) Jan. 1951. 26 Ag8

35709 SCHEERER. Die heil- und gewürzpflanzen auf der 1. gartenbauausstellung der Deutschen Demokratischen Republik in Markkleeberg. Nat. u. Nahr. Ausg. B 4:126-127. Nov. 1950. 80 N218B

35710 SCHEERER. Wildfrüchte in Sachsen. Nat. u. Nahr. Ausg. B 4:111-112. Oct. 1950. 80 N218B

35711 SINCOCK, R. L. Oil of lavender, one man's crop. Wash. Farmer 76:151, 183. Mar. 1, 1951. 6 R151

35712 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. TECHNICAL COLLABORATION BR. Abstracts of some articles pertaining to the cultivation of black pepper, by L. Greene. Washington, 1951. 45 p. 1.943 Ab82

35713 VALDIVIA A., A. Poda oportuna del cafeto. Campo [La Paz] 4(44):15, 17-18. Dec. 1950. 9.1 C15

35714 VOLLEMA, J. S. Arrangement, planting and thinning of rubber cultures. (In Dutch.) Bergcultures 19:454-455, 457, 459, 461, 463, 465, 467. Ref. Dec. 16, 1950. 22.5 B45

35715 WALTER, T. E., LOOS, C. A., and PORTSMOUTH, G. B. Crop protection by modified agricultural methods. I-III. Ceylon. Tea Res. Inst. Tea Q. 21(4):35-43. Dec. 1950. 68.18 C33

I, The control of shade, by T. E. Walter; II, The Katabola loss of crop experiment, by C. A. Loos; III, General considerations, by G. B. Portsmouth.

35716 WEST AFRICAN CACAO RESEARCH INSTITUTE. Annual report, April, 1948 to March, 1949, Tafo, Gold Coast. London, 1950. 64 p. 68.39 T12A

35717 WREN, W. G. Planting and production of raw rubber and latex, including gutta-percha, balata, chiclé and jelutong. Inst. Rubber Indus. Annu. Rpt. Prog. Rubber Technol. (1949)13:6-13. Ref. 1950? 305.9 In7A

## SOILS AND FERTILIZERS

### SOIL SCIENCE

35718 BERG, L. S. Are our steppes drying out? (In Russian.) Pochvovedenie 1950:636-642. Ref. Oct. 1950. 57.8 P34

Effect of climatic conditions chiefly.

35719 GAUCHER, G. L'orientation actuelle de la pédologie d'après les travaux du dernier Congrès International de la Science du Sol (Amsterdam - juillet-août 1950). Rev. Agr. de l'Afrique du Nord 48:919-923. Dec. 15, 1950. 80 R326

35720 GORDIENKO, M. Betrachtungen über die entwicklung der russischen und deutschen bodenkunde. Forstwirtschaft. Holzwirt. 4:251-256, 277-280. Aug. 15-Sept. 1/15, 1950. 99.8 F7793

35721 KELLOGG, C. E. Doctrinas contradictorias sobre los suelos. Serv. Coop. Interamer. de Prod. de Aliment. Inform. del SCIPA. Ser. para los Agr. 20:3-7. (Concl.) Sept. 1950. 9.8 P4352

35722 KELLOGG, C. E. Scientists creating opportunities for world abundance. Washington, U. S. Bur. Plant Indus., Soils, & Agr. Engin., 1951. 18 p. 1.965 S6K29  
Address before the Michigan Academy of Science, Arts, and Letters, East Lansing, Mar. 23, 1951.

35723 VILENSKIĬ, D. G. Pochvovedenie [Soil Science]. Moskva, Ministerstvo Prosvetsheniia RSFSR, 1950. 383 p. 56.26 V71

35724 VIL'JAMS, V. R. Pochvovedenie [Soil science]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 624 p. (Sobranie Sochinenii. v.5) 56 V71

### Soil Physics

35725 AITCHISON, G. D., BUTLER, P. F., and GURR, C. G. The construction, calibration and use of gypsum block moisture meters and associated apparatus. Austral. Commonwealth Sci. & Indus. Res. Organ. Div. Soils. Div. Rpt. 10/50, 22 p. 1950. 56.9 Au7

35726 BERENDES, P. Die elektrizität im ackerboden. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:165-166. Feb. 1, 1951. 18 L2346

35727 CHEPIL, W. S. Properties of soil which influence wind erosion. III. Effect of apparent density on erodibility. Soil Sci. 71:141-153. Feb. 1951. 56.8 So3

35728 DEMORTIER, G., and DROEVEN, G. Mouvements des précipitations aqueuses dans trois profils de sols limoneux après une période sèche. Inst. Agron. et Sta. de Rech. de Gembloux. B. 18(1/2):53-67. 1950. 105.1 G285

English summary.

35729 PEARSALL, W. H. The investigation of wet soils and its agricultural implications. Empire J. Expt. Agr. 18:289-298. Ref. Oct. 1950. 10 Em7

35730 PROCTER, C. Soil temperature is important. Grower [London] 35:29. Jan. 6, 1951. 286.83 M34

35731 SCARSETH, G. D. Scientist stresses soil structure. Hoosier Farmer 36(2):22-23. Feb. 1951. 280.82 H76

35732 SKVORTSOV, A. F. Effect of perennial grasses and legumes on structure formation of Colchis soils which were improved by silt deposition. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(10):29-34. 1950. 20 Ak1

35733 STOCKKLAUSNER, F., and LEHMANN, W. A. Um die bodendruckschäden! Tech. f. Bauern u. Gart. Ausg. A 2:616-617. Nov. 10, 1950. 58.8 T223

35734 SUKHAREVA, T. T. Areas [in soil] in which carrot roots feed. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok. 11:229-231. 1949. 20 M857

35735 VAN BAVEL, C. H. M. Effect of certain organic agents on water-stable soil aggregation. Iowa State Col. J. Sci. 25:373-375. Jan. 1951. 470 Io9  
Abstract of thesis (Ph. D.).

35736 YEN, P. C., and HSU, W. C. Some physical and chemical properties of the soils of Pei-Shan Village, Yung-Tai County, Fukien. (In Chinese.) Fukien Agr. J. 11:179-187. June 1950. 22.5 F95  
English summary.

### Soil Chemistry and Mineralogy

35737 ARIAS, J. B. De como se averigua la acidez de los terrenos y la aplicación científica de la cal. Cuba Ganad. 10(6):25-27. Feb. 1951. 49 C89

35738 ARNOLD, C. Y., and SCHMIDT, W. A. Soil tests as a measure of phosphorus available to tomatoes on heavy soils. Soil Sci. 71:105-115. Ref. Feb. 1951. 56.8 So3

35739 BARBIER, G., and GUENNELON, R. Sur la loi de variation quantitative de l'humus dans le sol au cours des années. Acad. des Sci. Compt. Rend. 232:550-551. Feb. 5, 1951. 505 P21

35740 BHASKAR, T. D., STEPHENSON, R. E., and RUZEK, C. V. Preliminary report on availability of different forms of phosphate fertilizers on two "red hill" soils and the relation of phosphate response to nitrogen deficiency. Agron. J. 43:136-139. Mar. 1951. 4 Am34P

35741 ESTRADA, A., and MIKUS, F. F. Selenium content of the soils of the Lower Rio Grande Valley of Texas. Tex. J. Sci. 2:541-542. Dec. 30, 1950. 470 T31

35742 EVANS, H. J., PURVIS, E. R., and BEAR, F. E. Effect of soil reaction on availability of molybdenum. Soil Sci. 71:117-124. Feb. 1951. 56.8 So3

35743 EVANS, H. J., and PURVIS, E. R. Molybdenum status of some New Jersey soils with respect to alfalfa production. Agron. J. 43:70-71. Ref. Feb. 1951. 4 Am34P

35744 FUCHS, W. H. Entwicklungstendenzen und möglichkeiten der chemischen bodenentseuchung. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:38-43. Jan./Feb. 1950. 464.8 Z3

35745 GEE, J. C. DE. Preliminary oxidation potential determinations in a "sawah" profile near Bogor (Java). Indonesia. Gen. Agr. Res. Sta. Contrib. 106, 6 p. May 1950. 109.5 Ea73



- 35746 HARRIS, H. C., and others. Radioactive calcium in the study of additive and native supplies in the soil. *Science* 113:328-329. Mar.23,1951. 470 Sci2  
W. H. MacIntire, C. L. Comar, W. M. Shaw, S. H. Winterberg, and S. L. Hood, joint authors.
- 35747 HESTER, J. B., SHELTON, F. A., and ISAACS, R. L., JR. Know your soil. VII. Magnesium-potassium relation for sweet potatoes on sandy soils. *Better Crops Plant Food* 35:17-18,46-47. Jan.1951. 6 B46
- 35748 JACKMAN, R. H. Mineralization of inositol-bound phosphorus in soil. *Iowa State Col. J. Sci.* 25:260-264. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 35749 KIEL, H. The mineralogical investigation of sands as a method to determine the mineral reserve of soils. *Indonesia. Gen. Agr. Res. Sta. Contrib.* 107,5 p. May 1950. 109.5 Ea73
- 35750 MCCLELLAND, J. E. The effect of time, temperature, and particle size on the release of bases from some common soil-forming minerals of different crystal structure. *Iowa State Col. J. Sci.* 25:285-287. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 35751 MAERCKE, D. VAN. *Aspergillus niger* and the determination of phosphorus in soil. (In Dutch.) *Gent. Landhogesch. Meded.* 15:396-414. Ref. June 1950. 105.1 G344  
English summary.
- 35752 MAYBERRY, D. H. Ohio has new soil testing service. *Ohio Farmer* 207(4):13-14. Feb.17,1951. 6 Oh3
- 35753 NARAYANA, N., KIBE, M. M., and RANADIVE, S. J. Effect of sulphate of ammonia on the depletion of lime from the rice soils of Karjat-Kolaba District, Bombay State. *Poona Agr. Col. Mag.* 41:164-169. Nov.1950. 22 P79
- 35754 NELSON, W. L., and WELCH, C. D. Soil-testing reduces guesswork. *Better Crops Plant Food* 35:6-10. Jan.1951. 6 B46  
Also in *Farmers Fed. News* 31(7):3,25-26. Mar.1951. 280.28 F225
- 35755 NUTMAN, P. S. Colour reactions between clay minerals and root secretions. *Nature [London]* 167:288. Feb.17,1951. 472 N21
- 35756 PRINCE, A. B. Magnesium economy in the Coastal Plain soils of New Jersey. *Soil Sci.* 71:91-98. Feb.1951. 56.8 So3
- 35757 RICE, H. M., and ATKINSON, H. J. Soil mineralogy. II. Preliminary results in the mineralogical investigation of Canadian soils. *Chem. Canada* 3(2):38-40. Feb.1951. 381 C4236
- 35758 SCHOENE, F. Bodenuntersuchungen für den bauern. *Tech. f. Bauern u. Gärt. Ausg. A* 2:679-680. Dec.10,1950. 58.8 T223
- 35759 SEAY, W. A., ATTOE, O. J., and TRUOG, E. Elimination of calcium interference in photometric determination of sodium in soils and plants. *Soil Sci.* 71:83-90. Feb.1951. 56.8 So3
- 35760 THOMPSON, L. M. The mineralization of organic phosphorus, nitrogen, and carbon in virgin and cultivated soils. *Iowa State Col. J. Sci.* 25:369-370. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 35761 WINSOR, H. W. Boron retention of Rex fine sand as related to particle size of Colemanite supplements. *Soil Sci.* 71:99-103. Feb.1951. 56.8 So3
- 35762 WOODWARD, R. O. Taking soil samples for 4-H Club boys and adults. *Okl. Agr. Col. Ext. C* 513, 4p. n.d. 275.29 Ok41C
- 35763 YUEN, S. H., and POLLARD, A. G. The Fiske-Subbarow method for determining phosphate with special reference to soil extracts. *J. Sci. Food & Agr.* 2:36-42. Ref. Jan.1951 382 So12
- 35767 FRANZ, H. *Bodenzoologie als Grundlage der Bodenpflege.* Berlin, Akademie-Verlag, 1950. 316 p. 56.5 F85B
- 35768 GOULD, E. The effects of various commercial insecticides, fungicides and other materials on plant and animal life when applied to the soil. *Va. Fruit* 39(2):81-92. Feb.1951. 81 V81B  
Includes discussion.
- 35769 JOHNSTON, H. W. Amendment to Gerretsen's technique for the preparation of plates used for studying phosphate-dissolving micro-organisms. *Plant & Soil* 3:94-96. Jan.1951. 450 P696
- 35770 KLECKA, A. The agrobiological foundations of the agricultural industry. (In Czech.) *Ceskoslov. Akad. Zemedel. Vest.* 24:465-468. Nov.1950. 19.5 C332
- 35771 KRISS, A. E., and BIRJUZOVA, V. I. Autolysis and lysis of the bacterial cell. 1-2. (In Russian.) *Zhur. Obshch. Biol.* 11:381-390,434-447. Ref. Sept./Oct.-Nov./Dec.1950. 442.8 Z6  
Study on *Bacillus mycoides*.
- 35772 LEES, H. Isolation of the nitrifying organisms from soil. *Nature [London]* 167:355-356. Mar.3,1951. 472 N21
- 35773 MANIL, P., and BONNIER, C. Fixation symbiotique d'azote, chez la luzerne (*Medicago sativa* L.). II. *Inst. Agron. et Sta. de Rech. de Gembloux. B.* 18(1/2):89-126. 1950. 105.1 G285  
English summary.
- 35774 MARSHALL, R. M. Organic matter, the life of the soil. *Prog. Farmer, Tex. Ed.* 66(3):18. Mar.1951. 6 T311
- 35775 MEIKLEJOHN, J. The effects of glucose on impure cultures of nitrifying bacteria. *Plant & Soil* 3:88-93. Ref. Jan.1951. 450 P696
- 35776 MENKINA, R. A. Bacteria [in soil] which mineralize organic combinations of phosphorus. (In Russian.) *Mikrobiologiya* 19:308-316. Ref. July/Aug. 1950. 448.3 M582
- 35777 MISHUSTIN, E. N., and MIRZOEVA, V. A. Vegetation belts of mountains and their reflection in the bacterial population of the soil. (In Russian.) *Mikrobiologiya* 19:299-307. July/Aug.1950. 448.3 M582
- 35778 NÖREN, B. Myxobacteria in soils. *Nature [London]* 167:225-227. Feb.10,1951. 472 N21
- 35779 NOVOGRUDSKIĬ, D. M. Data on the history of soil microbiology. II. (In Russian.) *Mikrobiologiya* 19:459-471. Ref. Sept./Oct.1950. 448.3 M582
- 35780 NOVOGRUDSKIĬ, D. M., and TEPLĀKOVA, Z. F. Soil cellulose-destroying mycohytrid, *Rhizophlyctis rosea*. (In Russian.) *Mikrobiologiya* 19:317-325. Ref. July/Aug.1950. 448.3 M582
- 35781 PURI, G. S. The ecology of the humus layer in some English forests. II. *Indian Forester* 76:453-466. Ref. Nov.1950. 99.8 In2
- 35782 QUASTEL, J. H., and SCHOLEFIELD, P. G. Biochemistry of nitrification in soil. *Bact. Rev.* 15:1-53. Ref. Mar.1951. 448.3 B13
- 35783 SCHAERFFENBERG, B. Untersuchungen über die Bedeutung der Enchytraeiden als Humusbildner und Nematodenfeinde. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:183-191. Ref. May/June 1950. 464.8 Z3
- 35784 SCHMIDT, E. L. Soil microorganisms and plant growth substances: I. Historical. *Soil Sci.* 71:129-140. Ref. Feb.1951. 56.8 So3
- 35785 SKINNER, F. A. A method for distinguishing between viable spores and mycelial fragments of Actinomycetes in soils. *J. Gen. Microbiol.* 5:159-166. Feb. 1951. 448.3 J823
- 35786 STALL, C. W. Proper inoculation pays off. *Hoosier Farmer* 36(2):12,46. Feb.1951. 280.82 H76  
Legumes.
- 35787 SYLVESTRE, G., BOISCHOT, P., and QUILLON, P. Fixation de l'azote minéral par les micro-organismes décomposant les pailles de céréales dans le sol. *Acad. des Sci. Compt. Rend.* 232:436-438. Jan.29, 1951. 505 P21
- 35788 WANG, T. L. Nouvelle méthode de dosage des éléments minéraux fertilisants du sol par les Azotobacter. *Plant & Soil* 3:41-46. Jan.1951. 450 P696
- 35789 WILLIAMSON, W. T. H. The living soil. *Discovery* 12:15-19. Jan.1951. 472 D63

#### Soil Biology

- 35764 BIOLOGICAL effects on nutrient availability. *Soils & Fert.* 14:1-6. Feb.1951. 241 Im7Sf
- 35765 BONNIER, C. Formation de nodosités radicales, sur *Soja hispida* M., dans une terre dépourvue de *Rhizobium spécifique*. *Inst. Agron. et Sta. de Rech. de Gembloux. B.* 18(1/2):218-219. 1950. 105.1 G285
- 35766 FONSECA, A. X. DA. The value of legumes and the discoveries of Solari. (In Portuguese.) *Chacaras e Quintais* 83:95-96. Jan.15,1951. 9.2 C34  
Nitrogen fixation.



## Soil-Plant-Animal Relationships

## SOIL MANAGEMENT

- 35790 ALBRECHT, W. A., SHELDON, V. L., and BLUE, W. G. "Fairy ring" mushrooms make protein-rich grass. Torrey Bot. Club. B. 78:83-88. Jan./Feb. 1951. 451 T63B
- 35791 ALBRECHT, W. A. The soil and deficiency disease. Amer. Acad. Appl. Nutr. Mon. Newslet. J. 4(2): 8-10. Feb. 1951. 389.9 Am352
- 35792 COLEMAN, R. Fertilizers in relation to food composition. Natl. Canners Assoc. Inform. Let. 1325:113-114. Feb. 28, 1951. 389.9 N214In
- 35793 MCCLINTIC, C. F. Why fertilize? W. Va. Conserv. 14(10):4-12, 33. Jan. 1951. 279.8 W524  
Need for minor elements in soils for animal health.
- 35794 NIZEL, A. E., and HARRIS, R. S. The caries-producing effect of similar foods grown in different soil areas. New Eng. J. Med. 244:361-362. Mar. 8, 1951. 448.8 N442
- 35795 STAHR, A. Organic farm camps. Org. Farmer 2, i.e. 3:24-28, 63. Jan. 1951. 57.8 Or3  
Organically grown food for children's camps.
- Soil Genesis, Formation, Classification, and Mapping
- 35796 DAMES, T. W. G. Black earths and related soils in Indonesia. Indonesia. Gen. Agr. Res. Sta. Contrib. 103, 14 p. May 1950. 109.5 Ea73
- 35797 DUDAL, R. Les sols de la région malinoise. (In Flemish.) Agricultura [Louvain] 48:165-197. Ref. Dec. 1950. 13 R32  
French summary.
- 35798 GORSHENIN, K. P. On methods for the compilation of the state soil map on a scale of 1:1 000 000. (In Russian.) Pochvovedenie 1950:719-734. Dec. 1950. 57.8 P34
- 35799 KELLER, W. D. Geology for the farmer. Org. Farmer 2(7):39-42. Feb. 1951. 57.8 Or3
- 35800 KOENIGS, F. F. R. A "sawah" profile near Bogor (Java). Indonesia. Gen. Agr. Res. Sta. Contrib. 105, 7 p. May 1950. 109.5 Ea73
- 35801 KOVDA, V. A. Pochvy Prikaspijskoj nizmenosti (severo-zapadnoj chasti) [Soils of the near-Caspian lowlands]. Moskva, Akademiya Nauk SSSR, 1950. 254 p. 56.26 K84P
- 35802 LÄG, J. Illustration of influence of topography on depth of A<sub>2</sub>-layer in Podzol profiles. Soil Sci. 71:125-127. Feb. 1951. 56.8 So3
- 35803 MOGEN, C. A., and others. Soil survey of the Idaho Falls area, Idaho. U. S. Bur. Plant. Indus. Soils & Agr. Engin. Soil Survey 1939(8), 69 p. Dec. 1950. 1 So32F  
E. N. Poulson, A. E. Poulson, E. J. Van Slyke, and W. E. Colwell, joint authors.
- 35804 NATIONAL RESEARCH COUNCIL. HIGHWAY RESEARCH BOARD. Soil exploration and mapping. Washington, 1950. 121 p. (Its B. No. 28) 56.22 N21S
- 35805 NORTHCOLE, K. H. A soil survey of a proposed extension to the Coolong Division of the Chaffey Irrigation Area, South Australia. Austral. Commonwealth Sci. & Indus. Res. Organ. Div. Soils. Div. Rpt. 9/50, 11 p. 1950. 56.9 Au7
- 35806 POLAK, B. Occurrence and fertility of tropical peat soils in Indonesia. Indonesia. Gen. Agr. Res. Sta. Contrib. 104, 6 p. May 1950. 109.5 Ea73
- 35807 RIPADO, M. F. B. The humus soils of the Inharrime and Inhambane regions. (In Portuguese.) Moçambique 62:5-60. Ref. Apr./June 1950. 110 M71
- 35808 STEELE, J. G. The measure of our land. U. S. D. A. PA-128, 17 p. Jan. 26, 1951. 1 Ag84Pro  
Land-capability inventory.
- 35809 STEPHENS, C. G. The soils of lower Yorke Peninsula. Austral. Commonwealth Sci. & Indus. Res. Organ. Div. Soils. Div. Rpt. 6/50, 3 p. May 10, 1950. 56.9 Au7
- 35810 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Sound land classification rests on soil surveys. Beltsville, 1950. folder 1 P69So
- 35811 VOORT, M. VAN DER. The lateritic soils of Indonesia. Indonesia. Gen. Agr. Res. Sta. Contrib. 102, 9 p. Ref. May 1950. 109.5 Ea73
- 35812 WITTICH, W. Soil mapping in Germany. Q. J. Forestry 44:207-212. Oct. 1950. 99.8 Q2
- 35813 ALBRECHT, W. A. What's new in soil husbandry. Better Farming Methods 23(3):70-71. Mar. 1951. 58.8 B46
- 35814 BAKKER, G. DE. De bodemgesteldheid van enkele Zuidbevelandse polders en hun geschiktheid voor de fruitteelt [Soil conditions of some Zuidbeveland polders and their adaptation for fruit growing]. 's-Gravenhage, Staatsdrukkerij, 1950. 2 v. 56.24 B17  
Thesis - Landbouwhogeschool, Wageningen.
- 35815 BECK, V. S. Tall wheatgrass conquers alkali. West. Farm Life 53(6):7. Mar. 15, 1951. 6 R153
- 35816 BEEK, W. VAN DER. Soil and health; organic farming versus chemical farming in the U. S. A. (In Dutch.) Ver. tot Bevord. der Biol.-Dyn. Landmethode. Vruchtbare Aarde 8:95-99. Dec. 1950. 80 N28
- 35817 BERENDES, P. Die dynamik der ackerböden. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:320-321. Mar. 1, 1951. 18 L2346
- 35818 BRADFIELD, R. Practical techniques for improving soil structure. 2. West. Grower & Shipper 22(3):19, 21, 23, 32-34. Feb. 1951. 280.38 W52
- 35819 BURSON, P. M. Let's take the gamble out of farming. Conserv. Volunteer 13(79):43-46. Nov./Dec. 1950. 279.8 C765  
Soil management.
- 35820 CAMPO, J. DEL. La higiene del suelo, punto de partida de los agricultores. Tolva 8:413-415. Nov. 1950. 59.8 T58T
- 35821 CHAMPEVAL, A. Restauration économique des sols. Voix des Colons 33(1590):1. (Cont.) Jan. 8, 1951. 24 V85  
Algeria.
- 35822 CUNNINGHAM, C., and THOMASSON, R. L. Thousand dollar garden. Capper's Farmer 62(3):15, 70. Mar. 1951. 6 M693  
The 2-area plan with vegetables grown on one plot and green manuring crops on the other in a 2-year rotation.
- 35823 DELOFFRE, G. La remise en culture des terres de la région de Dunkerque inondées à l'eau de mer en 1944-1945. Acad. d'Agr. de France. Compt. Rend. 36: 581-583. Oct. 25/Nov. 8, 1950. 14 P215Bc
- 35824 DILLON, J. M. The land rehabilitation project: Statis. 153(spec. sup.: Econ. Survey Repub. Ireland):14. Feb. 3, 1951. 286.8 S12  
Ireland.
- 35825 EAMES, H. F. New idea for saving topsoil. Soil Conserv. 16:182-183. Mar. 1951. 1.6 So3S  
Returning topsoil to field after subsoil is removed for highway fill.
- 35826 EWESON, E. Only nationwide organic practices will meet our soil problem. III. Org. Gard. 18(2): 67-69. Feb. 1951. 56.8 Or3
- 35827 FIRBAS, E. Medidas preventivas contra la sequía. Chacra 21(240):86-87. Nov. 1950. 9 C34  
Soil management.
- 35828 HART, G. H. Brush burning blazes trail to reclamation of millions of acres of worthless lands. Calif. Cattleman 1951:8-9, 18-22. Mar. 1951. 43.8 C12
- 35829 HART, J. C. He cured a 100-acre headache. Humble Farm Family 7(7):8-9. Dec. 1950. 6 F233  
Soil management on a farm in Texas.
- 35830 HECKEL, F. Men of organic culture: Ehrenfried E. Pfeiffer. II. Org. Gard. 18(2):46-50. Feb. 1951. 56.8 Or3
- 35831 HILKENBAUMER, F. Neue erkenntnisse auf dem gebiet der bodenmüdigkeit. Deut. Baumsch. 3:12-14. Jan. 1, 1951. 80 D486
- 35832 JENNY, G. How to prevent alkali formation. West. Livestock Rptr. 11(27):22-23. Feb. 28, 1951. 286.85 W523
- 35833 KUNZEL, M. On the nature of the biological dynamic method of farming. (In Dutch.) Nederlandse Ver. tot Bevord. der Biol.-Dyn. Landmethode. Vruchtbare Aarde 8:93-95. Dec. 1950. 80 N28
- 35834 LATHROP, W. H. You can't be a "compass" farmer and build up run-down soil. Better Crops Plant Food 35(2):34-25, 43-44. Feb. 1951. 6 B46
- 35835 LUKKALA, O. J. Soiden turvekerroksen painumien ojituksen vaikutuksesta. Über die setzung des moortorfes als folge der entwässerung. Finland. Metsätieteellisen Tutkimuslaitoksen. Julkaisu. 37(1), 67 p. Ref. 1949. 99.9 F493  
German summary.
- 35836 LUND, R. F. What is the S. Dak. Reclamation Assn.? S. Dak. Stockgrower 4(12):3-4. Jan. 15, 1951. 49 So84



- 35837 MACDANIELS, L. H. Facts about organic gardening. Prof. Gard. 2:192. (To be cont.) Aug.1950. 80 P945
- 35838 MARIMPIETRI, L. The farmer works with living organisms: the illness of the land. (In Italian.) Gior. di Agr. 60:401-402. Dec.24,1950. 16 It1G  
Soil management in Italy.
- 35839 PARKER, F. W. The use of fertilizers and organic materials in soil management. Natl. Joint Comt. Fert. Appl. Proc. 26:13-23. 1950. 57.9 N216
- 35840 PASTORINI, F. M. Reclamation of the Piedmont and Liguria mountains within the framework of integral land reclamation. (In Italian.) Agenzia Romana Note e Inform. Agr. 6:7-8. Jan.24,1951. 281.8 Ag3
- 35841 POTOMAC GRANGE NO. 1, PATRONS OF HUSBANDRY, WASHINGTON, D. C. Organic agriculture, report of a committee. Washington?1950. 13 p. 56.6 P84
- 35842 PRUMMEL, B. Culture technical experiences in the development of the Zuiderzeepolders. (In Dutch.) Landbk. Tijdschr. 62:977-992. Dec.1950. 105.2 Or3  
Chiefly on soils.
- 35843 REINMUTH, E. Bodenkrankheiten und fruchtfolge. Gesunde Pflanzen 2:293-296. Dec.1950. 464.8 G33
- 35844 SCHIFF, L. Surface detention, rate of runoff, land use, and erosion relationships on small watersheds. Amer. Geophys. Union. Trans. 32:57-65. Feb.1951. 330.9 Am3
- 35845 SCHOFFER. Im untergrund stimmt etwas nicht. Dir. Hilt die Landmasch. 1(2):6. Nov.1950. 58.8 D62  
Soil management.
- 35846 SINGH, T. J. Cho reclamation and anti erosion works in Hoshiarpur Shiwaliks. Indian Forester 76:451-452. Nov.1950. 99.8 In2
- 35847 SKULTIN, E. J. Some people just won't learn; for a permanent lawn use natural fertilizers only. Org. Gard. 18(3):19. Mar.1951. 56.8 Or3
- 35848 TALLARICO, G. Clays of the Ionic Plain. (In Italian.) Italia Agr. 88:7-14. Jan.1951. 16 It1  
Soil management.
- 35849 TAYLOR, M. C. Considerations for reclamation policy. Land Econ. 27:31-40. Feb.1951. 282.8 J82
- 35850 WEBER, T. The Borrego story; a brief account of how two men beat back wind, sand, heat and rattlesnakes to turn the wasteland of centuries from a blistering desert into green fields. West. Fruit Grower 5:20-22. Jan.1951. 95.8 G762  
Soil reclamation for grape production.
- 35851 WHITE, H. C. What is organic gardening? Amer. Acad. Appl. Nutr. Mon. Newslet. J. 4(2):11-12. Feb.1951. 389.9 Am352
- 35852 WIESE, W. F. G. Answer to practical problems. (In Dutch.) (Excerpts.) Nederlandse Ver. tot Bevord. der Biol.-Dyn. Landbmethode. Vruchtbare Aarde 8:105-109. Dec.1950. 80 N28  
Soil management.
- 35853 WISCONSIN. CONSERVATION DEPT. Report to the people of Wisconsin on cover destruction, habitat improvement and watershed problems of the State in 1950. Wis. Conserv. B. 16(2), 78 p. Feb.1951. 279.8 W752  
Compiled by W. E. Scott.
- Soil Fertility
- 35854 AALTONEN, V. T. Die blattanalyse als bonitierungsgrundlage des waldbodens. Finland. Metsätieteellisen Tutkimuslaitoksen Julkaisu. 37(8), 41 p. Ref. 1950. 99.9 F493
- 35855 ABRAHAMSON, P. E. R. Will it pay to use commercial fertilizer? Gleaner 5:5. Jan.1951. 6 G472  
Effects on plants.
- 35856 ALBRECHT, R. Adding humus; you can improve tilth with crop residues and nitrogen. Prairie Farmer, Gen. Ed. 123(3):5. Feb.3,1951. 6 P883
- 35857 ALDRICH, D. G., and COONY, J. J. Lemon response to phosphate; substantial increase in yield of lemons followed application of phosphate in trials in two counties. II. Calif. Agr. [Calif. Sta.] 5(3):8. Mar.1951. 100 C12Cag
- 35858 ALDRICH, D. G., and COONY, J. J. Lemon response to phosphate; vegetative growth stimulated by soil application of phosphate to trees showing leaf symptoms of deficiency. I. Calif. Agr. [Calif. Sta.] 5(2):5,12. Feb.1951. 100 C12Cag
- 35859 AMARO BARCELOS, H. Abonos y fosfatos minerales. Asoc. Rur. del Uruguay. Rev. 78:39. Jan. 1951. 9.9 As5
- 35860 ARMIGER, W. H., and others. Urea-form. greenhouse studies with perennial ryegrass. Agron. J. 43:123-127. Mar.1951. 4 Am34P  
K. G. Clark, F. O. Lundstrom, and A. E. Blair, joint authors.
- 35861 BEERS, Z. H., and BERGER, K. C. Potash. Successful Farming 49(3):43,170-173. Mar.1951. 6 Su12
- 35862 BELL, R. W. Alfalfa in cash-crop farming. Mich. Farmer 215:237. Mar.17,1951. 6 M58  
Use of alfalfa for soil-building purposes.
- 35863 BERTSCHE, M. Does it pay? Will returns justify topdressing wheat with nitrogen this spring? Prairie Farmer, Gen. Ed. 123(4):30-31. Feb.17,1951. 6 P883
- 35864 BERZAGHI, M. N. Functions and consequences of soil fertility. (In Portuguese.) Rev. dos Mercados 1: 25-26. Sept.1950. 286.8 R328
- 35865 BERZAGHI, M. N. Pointers on phosphate fertilization. (In Portuguese.) Rev. dos Mercados 1(3):19-22. Nov.1950. 286.8 R328
- 35866 BIBLINA, L. I. Effectiveness of mineral fertilizer application to vineyards. (In Russian.) Moldavskaya Plodo-Vinograd. Opytn. Sta. Sborn. Rabot 1:64-71. 1949, pub.1950. 93.6 M73
- 35867 BIRD, J. Leaf feeding—new way to fertilize crops; researchers find that quick-acting plant foods, given a "free ride" in foliage sprays, can produce remarkable—but limited—results. Country Gent. 121(3):28, 112,114-115. Mar.1951. 6 C833
- 35868 BLONDEL, L., and CASSIN, J. Lutte contre la carence en manganèse chez les agrumes. Fruits et Primeurs de l'Afrique du Nord 21(221):6-8. Jan.1951. 80 F9482
- 35869 BLUM, J. P., and SALABERRY, F. DE. Le problème de l'humus. Bouches du Rhône Agr. 23(1043): 15,20. Jan.15,1951. 14 B662
- 35870 BRAY, R. H. Fertile soils; their creation by nature and perpetuation by man. Livestock Wk. 5(12):14, 60,62-64. Jan.25,1951. 49 L753
- 35871 CASPARE, H. E. The objective and nature of fertilizing. (In Dutch.) (Excerpts.) Nederlandse Ver. tot Bevord. der Biol.-Dyn. Landbmethode. Vruchtbare Aarde 8:102-105. Dec.1950. 80 N28
- 35872 CHAPMAN, C. J. Let's fertilize our pastures. Hoard's Dairymen 96:164. Feb.25,1951. 44.8 H65
- 35873 CHAPMAN, H. D., and FULLMER, F. The potash and phosphorus question. Calif. Citrog. 36:179, 187. Mar.1951. 80 C125
- 35874 COLLINS, E. R. Fertilizing for profitable crop and pasture production. Farmers Fed. News 31(7): 9,21. Mar.1951. 280.28 F225
- 35875 CONRAD, J. P. Fertilization of range forage; use of exploratory plots on range may indicate kind of fertilizer needed for optimum nutrition of forage plants. Calif. Agr. [Calif. Sta.] 5(2):3-4. Feb.1951. 100 C12Cag
- 35876 COOK, E. D., and others. The effect of fertilizer and spacing of plants on the yield of corn at Kirbyville, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1307,5 p. Dec.26,1950. 100 T31P  
J. C. Smith, L. E. Crane, and R. P. Bates, joint authors.
- 35877 COOK, E. D., and others. The effect of nitrogen, phosphorus and potassium on the yield of forage and grain from Camellia oats. Tex. Agr. Expt. Sta. Prog. Rpt.1327,3 p. Feb.19,1951. 100 T31P  
J. C. Smith, L. E. Crane and R. P. Bates, joint authors.
- 35878 COOPER, W. C., and GORTON, B. S. Salt tolerance of various citrus rootstocks. Rio Grande Val. Hort. Inst. Proc. 5:46-52. Ref. 1951. 81 L95
- 35879 CORMACK, D. V., BENTLEY, C. F., and SCOTT, D. B. Fertilizer studies with radioactive sulphur. I. Sci. Agr. 31:41-51. Ref. Feb.1951. 7 Sci2
- 35880 CORNELIUS. Radioaktiver dünger; sein weg in der pflanze bis zur äussersten blattspitze verfolgbar. Tech. f. Bauern u. Gärt. Ausg. A 2:681-682. Dec.10,1950. 58.8 T223
- 35881 DEMENT, J. D. The effect of various forms of nitrogen and time of application on rice plants in Crowley silt loam. Philippines. Bur. Plant Indus. Plant Indus. Digest 13(6):10-13. June 1950. 25 P544P
- 35882 DODD, D. R. Applying fertilizer on sods. Natl. Joint Comt. Fert. Appl. Proc. 26:59-66. 1950. 57.9 N216
- 35883 EARLEY, D. Valley fertilization. Tex. Farming & Citricult. 27(8):8. Feb.1951. 80 T31
- 35884 EGBERTS, H. Soil conditions and horticulture in France. (In Dutch.) Netherlands. Dir. van de Tuin-ouw. Meded. 13(10,sup.):169-180. Nov.1950. 86 N384



- 35885 EMRICH, E. Flüssige untergründung. Obstbau 69:183-184. Dec.1,1950. 80 Ob73
- 35886 ERIKSSON, G. Double phosphate portion increased the sugar beet crop. (In Swedish.) Lantmannen 35:94. Feb.3,1951. 11 L234
- 35887 FITZGERALD, O. A. Nitrogen can backfire. Wash. Farmer 76:109,117. Feb.15,1951. 6 R151
- 35888 FREDRIKSSON, L. On the possibility of studying lime and fertilizer problems by means of isotopes. (In Swedish.) Lantbrakad. Tidskr. 89:435-445. 1950. 104 Sw3  
English summary.
- 35889 FROIER, K., and ZIENKIEWICZ, H. Comparative experiments on quality of hemp grown on mineral or peaty soils. (In Swedish.) Lin 4:73-77. Oct./Nov.1950. 73.18 L63  
English abstract, p. 80.
- 35890 FUMELLI, A. Grain cannot be left to itself. (In Italian.) Agr. Tosc. 6:15-18. Jan.1951. 16 Ag827  
Fertilizing.
- 35891 GASPARINI, M. Observations on the phosphate-nitrogen fertilization of wheat. (In Italian.) Agr. Tosc. 6:5-8. Jan.1951. 16 Ag827
- 35892 GIORGINI, G. "Goatsrue [*Galega officinalis*]," humble but sometimes providential cover crop. (In Italian.) Agr. Tosc. 6:19. Jan.1951. 16 Ag287
- 35893 GOETZ, H. Zum artikel: "kiefern auf trockenem sand und ihr kampf um den wurzelraum." Forst u. Holz 5:367-369. Dec.1,1950. 99.8 F7724
- 35894 GOMES, P. Liming. (In Portuguese.) Lav. Arroz. 4(47):30. Nov.1950. 59.8 L39
- 35895 GORBACHEV, I. D. Results of testing the new phosphorus fertilizer—thermophosphate. (In Russian.) Vsesofuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(10):35-38. 1950. 20 Ak1  
Experiments with potatoes.
- 35896 GOULD, R. Add nitrogen if you want to raise more corn. Kans. Agr. Student 27(2):10,30. Dec.1950. 276.8 K13
- 35897 GRAY, G. P. Kay-two-oh in California. Better Crops Plant Food 35(2):17-20,44. Feb.1951. 6 B46  
Potash fertilizer.
- 35898 GREENHAM, D. W. Grass and manures for top fruit. Grower [London] 34:1267-1268. Dec.16,1950. 286.83 M34
- 35899 GULL, P. W. Advantages, limitations and present status in the use of liquid & gaseous fertilizers. Natl. Joint Comt. Fert. Appl. Proc. 26:72-77. 1950. 57.9 N216
- 35900 GUSEINOV, D. M. Utilization of waste gumbrin for the purpose of increasing productivity of agricultural crops. (In Russian.) Pochvovedenie 1950:735-745. Dec. 1950. 57.8 P34  
Petroleum waste.
- 35901 HANTEN, H. Über die düngung im gartenbau. Gartenbauwirtschaft [Wien] 1950:270. (Concl.) Dec.10, 1950. 80 G1936
- 35902 HARGROVE, B. D., and HILL, H. O. Anhydrous ammonia fertilizer tests on various crops at Bluebonnet Farm, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1316,3 p. Jan.29,1951. 100 T31P
- 35903 HAUCK, Dungen wir richtig? Bad. Landwirt. Wehnl. 118:99-100. Feb.17,1951. 18 B142
- 35904 HAUER, E. Die wirtschaftlichkeit der handelsdüngeranwendung. Pflug 4:4-6. Jan.1951. 19 P48
- 35905 HINKLE, D. A. Balancing nitrogen and stand for maximum corn production in Arkansas. Ark. Farmer 53(3):10-11. Mar.1951. 6 Ar42
- 35906 HUTSON, H. C., and SMITH, J. C. The effect of different amounts and combinations of nitrogen, phosphoric acid and potash on the yield and quality of sweet potatoes at Nacogdoches. Tex. Agr. Expt. Sta. Prog. Rpt. 1326,3 p. Feb.14,1951. 100 T31P
- 35907 HUTSON, H. C., and SMITH, J. C. The effect of fertilizers on the yield of corn and sorghum at Nacogdoches. Tex. Agr. Expt. Sta. Prog. Rpt. 1315,1 p. Jan. 29,1951. 100 T31P
- 35908 HYLAND, W. A. Problems in the application of commercial fertilizers. Natl. Joint Comt. Fert. Appl. Proc. 26:90-92. 1950. 57.9 N216
- 35909 AN INTERIM note on trials of artificial fertilizers conducted by the Department of Agriculture, 1949-50. Nyasaland Agr. Q. J. 9:56-57. (To be cont.) Apr. 1950. 24 N983
- 35910 JACKSON, T. L. Gas-injected nitrogen boosted wheat yields most. Wash. Farmer 76:192,206. Mar.1951. 6 R151
- 35911 JOHNSON, W. H. Fertilizing and seeding by airplane. (Abs.) Natl. Joint Comt. Fert. Appl. Proc. 26: 82-83. 1950. 57.9 N216
- 35912 JONES, J. O., and DERMOTT, W. The potash manuring of lucerne. Gt. Brit. Min. Agr. Agriculture 57: 507-509. Feb.1951. 10 G79J
- 35913 KANNENBERG, H. Warum haben die kupferungsversuche im jahre 1950 versagt? Landwirtbl. Weser-Ems 98:29-30. Jan.11,1951. 18 L2345
- 35914 KRAMER, P. J. Soil aeration and tree growth. Natl. Shade Tree Conf. Proc. 26:51-58. 1950. 99.9 N218
- 35915 LAFITE, La reconstitution et l'amélioration de la fertilité des sols. L'équilibre des fumures. Acad. d'Agr. de France. Compt. Rend. 36:655-666. Ref. Nov.29/Dec.6,1950. 14 P215Bc  
With comments by J. Ferte and G. Bertrand.
- 35916 LAGAUE, H. Les sols horticoles catalans; comment concevoir leur fertilisation et leur désinfection. Potasse 25(181):14-17. Jan.1951. 57.8 P84
- 35917 LANGFITT, M. Limestone and its relation to soil fertility. Iowa State Watersheds B. 1(8):5. Dec.1950. 290.8 I69
- 35918 LAWRENCE, F. P. How to pick citrus grove site. Fla. Grower 59(3):6. Mar.1951. 80 F6622
- 35919 LESAGE, J. Fecundidad de la tierra. Tierra [Mexico] 6:108-109. Feb.1951. 8 T445  
France.
- 35920 LINSLEY, C. M. Potassium plays a big part—for a sound plant food program that means good crops, you need potassium as well as lime and phosphate. Ill. Agr. Assoc. Rec. 29(2):12-13,29. Feb.1951. 6 IL62
- 35921 LITTLEFIELD, J. J. Camellia leaf burn. Begonian 18:51. Mar.1951. 96.511 B39  
Alkali soil.
- 35922 LUCKETT, E. J. R. The value of velvet beans in the Isis district. Queensland. Bur. Sugar Expt. Sta. Cane Growers' Q. B. 14:86-87. Oct.1,1950. 65.9 Q3C  
For soil improvement.
- 35923 LUTZ, J. A., JR. The effect of various fertilizer treatments on quality and quantity of corn produced. (Abs.) Va. J. Sci. (n.s.):1334. Sept.1950. 470 V81
- 35924 MACALPINE, R. I. Observations on manuring policy in the Darjeeling District with particular reference to the relative value of artificials and green crops. Planters' Chron. 45:594-599. Nov.15,1950. 22 P693  
Tea.
- 35925 MCVICKAR, M. H. Aircraft application of fertilizers. Natl. Joint Comt. Fert. Appl. Proc. 26:78-82. 1950. 57.9 N216
- 35926 MAHNER, A. Kopfdüngung — auch anders! Tech. f. Bauern u. Gärt. Ausg. A 2:691-692. Dec.10,1950. 58.8 T223
- 35927 MALHERBE, I. DE V. Utilization of fertilizer in South Africa during the last 50 years. (In Afrikaans.) Landbouweekblad 32(1638):8-9. Dec.6,1950. 24 L232
- 35928 MANCINI, F. The soils of Mount Amiata. (In Italian.) Italia Forest. e Mont. 5:173-187. Ref. Sept./Oct.1950. 99.8 It12  
English summary.
- 35929 MANSINGH, B. Observations on bajri kanker in the subsoil. Indian Farming 11:151-152. Apr.1950. 22 In283
- 35930 MARTIN, J. P. Seedlings on old citrus soils; effect of water, acid, alkali, and alcohol leaching of old citrus soils on growth of citrus seedlings. Calif. Agr. [Calif. Sta.] 4(12):3,11. Dec.1950. 100 C12Cag
- 35931 MARTIN, W. E., and BUCHANAN, J. R. Phosphate test for grain land; Bingham soil phosphate test enables accurate prediction of yield response of cereals to phosphorus fertilization. Calif. Agr. [Calif. Sta.] 4(12):7,12. Dec.1950. 100 C12Cag
- 35932 MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Plant food recommendations for Maryland horticultural crops. Md. Agr. Col. Ext. Misc. P. 1, chart. Jan.1,1951. 275.29 M36Mis
- 35933 MEDINA, G. Comments on fertilizing. (In Portuguese.) Lav. Arroz. 4(47):28-29. Nov.1950. 59.8 L39
- 35934 MICK, A. H., HODGSON, H. J., and LITZENBERGER, S. C. General recommendations, fertilizers for Alaska, 1951. Alaska. Agr. Expt. Sta. C. 13,12 p.-folder. Jan.1951. 100 AL122E



- 35935 MONNIER, C. La fumure du blé. Potasse 25(181):3-6. Jan.1951. 57.8 P84
- 35936 MUTTI, U. How to fertilize pastures. (In Italian.) *Avvenire Agr.* 59:10-11. Jan.1951. 16 Av9
- 35937 NARAYANA, N. The scope and manner of utilization of chemical fertilizers and composts. *Poona Agr. Col. Mag.* 41:153-163. Nov.1950. 22 P79
- 35938 NATIONAL JOINT COMMITTEE ON FERTILIZER APPLICATION. Proceedings of the twenty-sixth annual meeting, 1950. n.p.,1950. 230 p. 57.9 N216
- 35939 NELSON, J. H. Observations on the use of fertilizers in the Stockton area. *West. Grower & Shipper* 22(3):28,37. Feb.1951. 280.38 W52
- 35940 NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGICAL BR. DIV. OF SCIENCE SERV. Soil acidity and the growth of vegetables. N. S. Wales. Dept. Agr. *Plant Physiol. L.* 3,3 p. 1950. 451 N472
- 35941 NITROGEN from tanks. *Farm Q.* 6:30-31,114-115. Spring 1951. 6 F22995
- 35942 OHTANI, Y., and KANZAKI, T. Studies on the mechanism of hindrance to growth of wheat in the acidified soil. (In Japanese.) *Tokyo. Natl. Agr. Expt. Sta. Chugoku Br. Contrib.* 14:57-60. 1949. 107.6 T5752 English summary.
- 35943 OLIVA, A. Chemical fertilizations at a standstill. (In Italian.) *Humus* 6(12):3-8. Dec.1950. 16 H88
- 35944 OLSON, L. C., and BROGAN, D. Soil acidity and its importance in the growth of Azaleas, Camellias and other ornamentals. *Ga. Agr. Expt. Sta. Press. B.* 630, 4 p. Mar.6,1951. 100 G29P
- 35945 OVERCASH, J. P., CAMPBELL, J. A., and CROCKETT, S. P. Progress report on peach fertilizer studied. *Miss. Farm Res. [Miss. Sta.]* 14(2):8. Feb.1951. 100 M69M1
- Influence of various fertilizers on tree growth.
- 35946 PAAUW, F. VAN DER. Phosphate requirements for barley. (In Dutch.) *Natl. Comt. v. Brouwergerst. Jaarb.* (1951)15:40-46. 1950. 390.9 N21 English summary.
- 35947 PADGETT, J. R. Cover crops. *Border Scope* 3:12. Jan./Feb.1951. 6 B64
- 35948 PARKER, F. W., and others. The broad interpretation and application of soil test information. *Agron. J.* 43:105-112. Ref. Mar.1951. 4 Am34P
- W. L. Nelson, E. Winters, and I. E. Miles, joint authors.
- 35949 PARNEIX, P. La fumure azotée des orges de brasserie. *Culture* 25:8-10. Jan.1951. 14 C894
- 35950 PATON, D. F. Potash responses on pastures in northern Tasmania. *Tasmania. Dept. Agr. Tasmanian J. Agr.* 21:302-311. Nov.1,1950. 23 T182T
- 35951 PEQUIGNOT, R. À propos de la fumure de la betterave à sucre. *Motorisation Agr.* 5:579-581. (Cont.) Nov.1950. 58.8 M85
- 35952 PHILLIS, E. Soil problems in plantation crops. *Planters' Chron.* 45:628-629. Dec.1,1950. 22 P693
- India.
- 35953 PRINCIPI, P. I terreni per le piante legnose da frutto [Soils for fruit trees]. Rome, Ramo Editoriale Degli Agricoltori, 1950. 139 p. (Biblioteca per l'Insegnamento Agrario Professionale. N. 167-168) 56.34 P932
- 35954 PRITCHETT, W. L. Nitrogen fertilization of small grain and its effect on competition with the legume-grass companion crop. *Iowa State Col. J. Sci.* 25:337-339. Jan.1951. 470 Io9
- Abstract of thesis (Ph. D.).
- 35955 QUINN, D. G. Manuring the grape vine. *Victoria. Dept. Agr. J.* 48:535-538. Dec.1950. 23 V66J
- 35956 RAINERI, C. Directions for fertilizing. (In Italian.) *Mezzogiorno Agr.* 7(4):3. Jan.27/Feb.3,1951. 16 M57
- 35957 REBOUR, H. La fumure des agrumes. *Volx des Colons* 33(1590):2. (To be cont.) Jan.8,1951. 24 V85
- 35958 REYNOLDS, E. B., JOHNSON, P. R., and MORRIS, H. F. Hairy vetch, bur clover and oats as soil-building crops for cotton and corn in Texas. *Tex. Agr. Expt. Sta. B.* 371,23 p., Ref. Dec.1950. 100 T31S
- 35959 ROARK, C. Black Belt soils are sticky, hard to work but natural grass lands. *South. Livestock J.* 10(7):10-12,16. Feb.1951. 43.8 F66A
- 35960 RUSSELL, M. Building fertility at a profit. *Colo. Rancher & Farmer* 5(2):1,6. Jan.27,1951. 6 C714
- Use of crops, livestock, and pasture.
- 35961 SAMUELS, R. Sugar cane and the soil. (Abs.) *Actualidades* 1951:58-66. Jan.1951. 65.9 As52
- 35962 SAUCHELLI, V. Phosphates in soils and fertilizers for truck and canning crops. *Com. Fert.* 82(3):36-40. Mar.1951. 57.8 C73
- 35963 SCARSETH, G. D. Where should fertilizer be placed for corn? *Natl. Joint Comt. Fert. Appl. Proc.* 26:54-58. 1950. 57.9 N216
- 35964 SNIDER, H. J. Soil treatment improves soybeans. *Better Crops Plant Food* 35(2):21-23,47. Feb. 1951. 6 B46
- 35965 SORTEBERG, A. Soil reaction and liming. (In Norwegian.) *Norsk Hagetid.* 67:11-13. Jan.1,1951. 80 N81
- 35966 STENUIT, D. Le problème des sols des prairies. *Rev. de l'Agr.* 3:1390-1405. Dec.1950. 13 R322 English summary.
- 35967 STEPHENSON, R. E. Soil properties influence fertilizer needs. *Better Crops Plant Food* 35:15-16,39-41. Jan.1951. 6 B46
- 35968 STEWART, A. B. Fertilizers and crop production. *Scot. Dept. Agr. Adv. L. (n.s.)* 18,15 p. 1951. 10 Sco82L
- Field crop production in Scotland.
- 35969 STOCK, E. Agricultural productivity in Israel greatly increased by expanded use of pesticides and fertilizers. *Agr. Chem.* 6(3):38-41. Mar.1951. 381 Ag8
- Chiefly fertilizers.
- 35970 THOMANN. Düngungsmassnahmen im frühjahr. *Württemberg. Wchnbl. f. Landwirt.* 118:131-132. Feb.17,1951. 18 W96
- 35971 TRETHERWEY, L. P. Soil fertility. *So. Austral. Dept. Agr. J.* 54:204-205. Nov.1950. 23 So84
- 35972 TUCKER, H. H. Fertilizers pay their way in increased yields. *Amer. Farm Pict.* 1951:1,6. Winter 1951. 6 Am396
- 35973 TULLY MILL. The attaining and maintenance of soil fertility in the Tully area. *Queensland. Bur. Sugar Expt. Sta. Cane Growers' Q. B.* 14:81-85. Oct.1,1950. 65.9 Q3C
- 35974 VERDEYEN, J. Le probleme de la fumure des prairies pâturées. *Gent. Landbhogesch. Meded.* 15:443-457. June 1950. 105.1 G344
- 35975 VERSHININ, P., REVUT, I., and BURNATSKII, D. Possibilities for improving fertility of ordinary Chernozems. (In Russian.) *Soviet. Agron.* 8(11):35-45. Nov.1950. 20 So84
- 35976 VIANNA, N. The need for fertilizing. (In Portuguese.) *Rev. dos Mercados* 1(3):56-59. Nov.1950. 286.8 R328
- Cotton.
- 35977 VIRO, P. J. Fertilization trials on forest soil. *Finland. Metsätieteellisen Tutkimuslaitoksen. Julkaisu.* 37(7),23 p. Ref. 1950. 99.9 F493
- 35978 VOGLER, E. La santé du sol; action de la fumure minérale. *Potasse* 25:22-24. Feb.1951. 57.8 P84
- 35979 WALKER, R. K., and STURGIS, M. B. Complete fertilizers for rice. *Philippines. Bur. Plant Indus. Plant Indus. Digest* 13(6):14-17. June 1950. 25 P544P
- 35980 WELDON, M. D., and RINGLER, W. R. General fertilizer recommendations on irrigated land in Nebraska, 1951. *Nebr. Agr. Col. Ext. CC-108*, 4 p. 1951 275.29 N272Cc
- 35981 WILLCOX, O. W. Quantitative agrobiologic evaluation of some phosphate fertilizer tests with vegetable crops in Alabama. *Agron. J.* 43:83-90. Ref. Feb.1951. 4 Am34P
- 35982 WILLCOX, O. W. Quantitative agrobiology in the cane fields of Peru. *Sugar* 46(3):30-32. Mar.1951. 65.8 F11
- 35983 WOODLE, H. A., and COLWELL, W. E. 1951 Carolinas fertilizer recommendations. *Prog. Farmer, Carolinas-Va. Ed.* 66(3):18. Mar.1951. 6 P945
- 35984 ZINN, L. G. What is fertilizer worth? *Better Crops Plant Food* 35(2):26,45-47. Feb.1951. 6 B46
- Corn yield.

#### Soil Tilth and Tillage

- 35985 BALTIAN, K. I. In regard to a "fundamental transformation of turfy-Podzolic soils." (In Russian.) *Pochvovedenie* 1950:623-635. Oct.1950. 57.8 P34
- Chiefly on tillage and use of fertilizers.
- 35986 BARTHE, M. Le labour attelé en Guinée Française. *Agron. Trop.* 6:73-76. Jan./Feb.1951. 26 Ag86



- 35987 CHRISTOVA-HAIDUTOVA, I., and PETEV, D. Establishing technical and economic effects of digging round and harvesting with various technical means. (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsled. Inst. Spis. 18(3):29-55. 1950. 106.3 R32  
English summary.
- 35988 FAULKNER, E. H. Land heals itself. *Org. Farmer* 2(7):32-35. Feb.1951. 57.8 Or3
- 35989 FEUERLEIN, Wettpflügen auf dem Kupferhof. *Tech. f. Bauern u. Gärt. Ausg. A* 2:621. Nov.1,1950. 58.8 T223
- 35990 GRILLOT, G. La jachère et l'humidité des sols au Maroc (Rabat). *Terre Marocaine* 25(254):23-24. Jan.1951. 24 T44
- 35991 HANSEY, P. Gedanken zur frühjahrsarbeit. *Bad. Landwirt. Wchnbl.* 118:100-101. Feb.17,1951. 18 B142  
Tillage.
- 35992 HARLEY, C. P. A new concept of orchard mulching. *Mountaineer Grower* 21(185):33-35. Feb.1951. 80 M86
- 35993 HARRIS, G. H. Sawdust as a mulch for strawberries. *Sci. Agr.* 31:52-60. Ref. Feb.1951. 7 Sc12
- 35994 IZBASH, A. G. How to cultivate the soil in vineyards in Ukraine. (In Russian.) *Vinodel. i Vinograd. SSSR* 10(9):49. Sept.1950. 95.8 V77
- 35995 KNIGHT, L. Extra ploughing helps the tilth. *Grower [London]* 35:25,27. Jan.6,1951. 286.83 M34
- 35996 LOMBARD, T. A. Does non-tillage increase Valencia orange yields? *Calif. Citrog.* 36:182. Mar.1951. 80 C125
- 35997 MACKAY, A. I. Have you tried sawdust gardening? *Org. Gard.* 18(3):30-32. Mar.1951. 56.8 Or3
- 35998 MINOLTS. Verbesserte untergrundlockerung auf sandbdden. *Landwirtbl. Weser-Ems* 1951:5-6. Jan.4,1951. 18 L2345
- 35999 MOODY, J. E., LILLARD, J. H., and EDMISTER, T. W. Plant nutrient studies under mulch tillage. Washington? U. S. Soil Conserv. Serv. 1950. 12 p. 1.96 Ad6PL  
Virginia Agricultural Experiment Station cooperating. Presented before the Soil Conservation Section, American Society of Agronomy Meetings, Cincinnati, Nov. 1950.
- 36000 MOORE, I. Make a good seed-bed. *Farmer & Stock-Breeder* 65(3202):41-42. Mar.6,1951. 10 F228
- 36001 REYNTENS, H. Influence, sur le rendement et la composition botanique, de l'aération profonde et du travail superficiel du sol des pâtures permanentes et des vergers pâturés. *Rev. de l'Agr.* 3:1332-1353. Dec.1950. 13 R322  
English summary.
- 36002 SMITH, L. Much dung mucks up ploughing. *Grower [London]* 35:15. Jan.6,1951. 286.83 M34  
Vegetable culture.
- 36003 SPRAGUE, H. Mulch after seeding. *Org. Gard.* 18(2):27. Feb.1951. 56.8 Or3
- Drainage, Irrigation, Water Supply, and Flood Control
- 36004 AINSWORTH, J. C., JR. Bonanza in the sand. *Sowest. Crop & Stock* 5(2):18-19,57. Feb.1951. 6 S08942  
Large-scale irrigation of the sandy lands in Gaines County, Texas.
- 36005 ALVAREZ ESTEBAN, J. Burgos puede incrementar su superficie de regadío en 22.500 hectáreas. *Aliment. Nac.* 10(182):8-10. Dec.25,1950. 389.8 AL42
- 36006 BARANOV, E. I. They overcame the drought. (In Russian.) *Vinodel. i Vinograd. SSSR* 10(9):57-59. Sept.1950. 95.8 V77  
Irrigation of vineyards at Nizhnegorskiy Vinsovkhoz on Crimean Peninsula.
- 36007 BARRETT, N. Water is where you find it. *Pear Growers League. Annu.* 1950:47-49,51. 286.3939 P31  
Irrigation in California.
- 36008 BARRIOS DE LA BORDA, J. C. Trabajos en la irrigación de "La Bella Unión" en Acari. *Serv. Coop. Interamer. de Prod. de Aliment. Inform. del SCIPA. Ser. para los Agr.* 20:55-57. Sept.1950. 9.8 P4352
- 36009 BAZILEVICH, N. I., and KURGANSKIY, A. G. Irrigation problems of Middle Volga Area. (In Russian.) *Pochvovedenie* 1950:713-718. Dec.1950. 57.8 P34
- 36010 BECK, V. S. How New Mexico farmers rehabilitated their flood-stricken valleys. *West. Farm Life* 53(5):8,12. Mar.1,1951. 6 R153
- 36011 BERGLUND, N. To what extent can irrigation ditches be made with machinery? (In Swedish.) *Lantman-nen* 35:8-9. Jan.6,1951. 11 L234
- 36012 CORBIÈRE, R. L'hydraulique agricole aux États-Unis. *Génie Rur.* 44:14-16. Jan.1951. 58.8 Au8  
Hydroelectric power, irrigation, reclamation.
- 36013 DUSENBERRY, H. L. Three ways of constructing low cost diversion dams. *Mont. Farmer-Stockman* 38(10):28-29. Jan.15,1951. 6 M764
- 36014 EDWARDS, F. E., KIMBROUGH, E. A., and EASLEY, O. W. Location, construction and use of irrigation ponds studied at State College. *Miss. Farm Res. [Miss. Sta.]* 14(2):7. Feb.1951. 100 M69M1
- 36015 ELSTON, J. A progress report on the Connecticut power ditcher. *N. J. Mosquito Extermin. Assoc. Proc.* 37:61-62. 1950. 420 N46
- 36016 FINE, L. O. Looking ahead to irrigation in the more humid sections of South Dakota. *S. Dak. Farm & Home Res. [S. Dak. Sta.]* 2:38-39,42. Winter 1951. 100 S082S
- 36017 FRIEDMANN, G. Overhead irrigation or fertilizer irrigation? (In Italian.) *Terra e Sole* 102:39-40. Feb.1951. 16 T273
- 36018 GOUDIE, A. G. Some soil factors related to irrigation problems in Northern Victoria. *Austral. Inst. Agr. Sci. J.* 16:130-138. Dec.1950. 23 Au74
- 36019 HAMILTON, J. Onion production under sprinkler irrigation Yuma Mesa, Arizona. *U. S. Bur. Plant Indus., Soils, & Agr. Engin. Div. Soil Mangt. & Irrig. Res Rpt.* 205,17 p. Feb.15,1951. 1.965 S4R312
- 36020 HENDRIKX, H. J. A., and BERG, C. V. D. The damming up of the Brielle Maas. (In Dutch.) *Netherlands. Landbouwlichtingsdienst. Maandbl.* 7:542-547. Dec.1950. 12 N383M
- 36021 HOENE, J. V. Wringing out a spruce bog. *Amer. Forests* 57(3):20-21. Mar.1951. 99.8 F762
- 36022 JENSEN, M. C. Sprinkler irrigation in Idaho. *Idaho. Agr. Col. Ext. Farm Electr. L.* 10,4 p. May 15,1950. 275.29 Id13Fa
- 36023 JONGEDYK, H. A., and others. Subsidence of muck soils in northern Indiana. *Ind. Agr. Expt. Sta. C.* 366,11 p. Nov.1950. 100 In2P  
R. B. Hickok, I. D. Mayer, and N. K. Ellis, joint authors.
- 36024 KENDALL, R. G. The ideal drainage machine. *Power Farmer* 6(3):20-22. Mar.1951. 58.8 P872
- 36025 KENDALL, R. G. When filling in a drain do not forget the lessons of the past. *Farmer & Stock-Breeder* 65:645. Feb.27,1951. 10 F228
- 36026 KESHLEAR, B. Floods. *Iowa State Watersheds B.* 1(6):3. Dec.1950. 290.8 Io9  
Control.
- 36027 KHUDIYAKOV, P. Improvement of surface irrigation on the basis of utilizing temporary irrigation canals. (In Russian.) *Sotsialist. Sel'sk. Khoz.* 21(11):36-45. Nov.1950. 281.8 So73
- 36028 KUFFELER, J. P. DE B. VAN. Land reclamation in the Netherlands. (In Dutch.) *Netherlands. Landbouwlichtingsdienst. Maandbl.* 7:505-511. Dec.1950. 12 N383M
- 36029 KUFFELER, J. P. DE B. VAN. Reclamation in the southern part of IJsselmeer. III. (In Dutch.) *Overijsselsch Landbl.* 33(1586):3. Jan.6,1951. 12 Ov2
- 36030 LALLOY, M. Le drainage est une amélioration qui paie. *Terre Nouvelle* 90:7-8. Mar.3,1951. 281.8 T272
- 36031 LUPTON, F. R. Use of inflow forecasts in operation of Hoover Dam and Lake Mead for flood control. *West. Snow Conf. Proc.* 18:35-48. Apr.17/18,1950. 340.9 W52  
Includes discussion.
- 36032 MCCLYMONDS, A. E. Irrigation follows a new course in Montana. *Soil Conserv.* 16:173-175,187. Mar. 1951. 1.6 S03S
- 36033 MCCULLOCH, R. Land reclamation. *Agr. Ireland* 8:59-60. Mar.1951. 10.5 Ag8
- 36034 MACINTOSH, A. C. Some factors to be borne in mind in the construction of earth dams. *Veldtrust* 11(11):18-21,25. Nov.1950. 56.8 V54
- 36035 MCNULTY, G. Land troubles move down drain. *Idaho Farmer* 69:3. Jan.4,1951. 6 G282  
Drainage in Franklin County, Idaho.
- 36036 MANN, D. H. Sprinklers rebuild dried-up farm. *Utah Farmer* 71:173. Mar.1,1951. 6 D45
- 36037 MARVIN, V. When tile is not enough—use a pump. *Elect. Farm* 24(2):5-7. Feb.1951. 335.8 EL27  
For draining wet spots in meadows.



36038 MERLO, A. Reinforced concrete for lining irrigation ditches. (In Italian.) Cent. di Studi per l'Ingegn. Agr. Mem. ed Atti 5:55-56. Sept./Oct.1950. 58.9 C33

36039 MOROZOV, G., and RASKIN, G. Problems in cotton culture in the zone of the Principal Turkmenian Canal. (In Russian.) Sotsialist. Sel'sk. Khoz. 21(11):17-23. Nov.1950. 281.8 So73

#### Irrigation:

36040 NAAS, O. Regulation of the water supply of plants. (In Swedish.) Lantmannen 35:106-108. Feb.10, 1951. 11 L234

#### Overhead Irrigation.

36041 NALDER, W. H. Design of irrigation systems. Amer. Soc. Civ. Engin. Proc. 77(57), 11 p. Feb.1951. 290.9 Am3Ps

36042 NAPALKOV, S. New system of irrigation. (In Russian.) Sotsialist. Sel'sk. Khoz. 21(9):7-14. Sept.1950. 281.8 So73

36043 NELSON, L. M. Irrigation transforms an Oregon desert. Impl. & Tractor 66(5):26-27, 42. Mar.3, 1951. 58.8 W41

36044 OLIVIER, L. A farm fortified against drought. Farmer's Wk. [Bloemfontein] 80:33, 35. Jan.3, 1951. 24 F225

#### Water conservation in South Africa.

36045 PARISIO, A. More on the subject of irrigation water. (In Italian.) Cent. di Studi per l'Ingegn. Agr. Mem. ed Atti 5:56-58. Sept./Oct.1950. 58.9 C33

36046 PETRENKO, N. A. To introduce the new system of irrigation. (In Russian.) Sad i Ogorod 1950 (11):57-58. Nov.1950. 80 Sa13

36047 PIJLS, F. W. G. Fresh water problems in connection with soil and water salting in the western part of the Netherlands. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:77-90. Ref. Feb.1950. 86 N384

#### English summary.

#### Includes drinking water for livestock.

36048 PILLSBURY, A. F., and HOOD, M. L. Irrigation by concrete pipe; installation procedures that eliminate failure and increased costs. West. Fruit Grower 5: 29-31. Jan.1951. 95.8 G762

36049 POGGI, F. How the greatest system of overhead irrigation in Europe was developed in the Province of Verona. (In Italian.) Cent. di Studi per l'Ingegn. Agr. Mem. ed Atti 5:50-55. Sept./Oct.1950. 58.9 C33

36050 POIRÉE, Deux lois nouvelles s'avèrent indispensables en matière d'équipement rural. 1-2. Génie Rur. 43:336-338. Oct.1950. 58.8 Au8

1, Une loi sur l'assainissement agricole et le drainage des terres humides; 2, Une loi sur la restauration de l'habitat rural dans le cadre du village réorganisé.

36051 POWELL, D. P., and STRICKLAND, L. E. Irrigation on pastures requires careful planning. Fla. Cattleman 15(5):26-28. Feb.1951. 43.8 F66

36052 PUCCINI, G. Holland and its reclamation. VIII. (In Dutch.) Terra [Firenze] 62(2):3. Jan.14, 1951. 16 T274

36053 PUERTO RICO WATER RESOURCES AUTHORITY. Annual report, 1949-50. San Juan, 1950. 101 p. 292.9 P96

#### Irrigation included.

36054 QUARRELL, C. P. El riego de la huerta. Chacra 21(240):26-27. Nov.1950. 9 C34

36055 RETSON, G. C. Reclamation of the marshlands of Nova Scotia. Econ. Annal. 21:14-19. Feb.1951. 281.8 Ec72

36056 RIZZI, A. D., and BOOHER, L. J. Orchard management with sprinkler irrigation. West. Fruit Grower 5(2):38-40. Feb.1951. 95.8 G762

36057 ROBERTS, K. L. Henry Gross and his dowsing rod. Garden City, N.Y., Doubleday, 1951. 310 p. 140 R54

36058 ROEBROEK, A. A few data on the further orientation of diking of the Brabant Biesbosch. (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Maandbl. 7:548-553. Dec.1950. 12 N383M

36059 ROMANINI, A. Irrigation of soils of low permeability. (In Italian.) Avvenire Agr. 59:4. Jan.1951. 16 Av9

36060 RUBEY, H. Supplemental irrigation for Missouri and regions of similar rainfall. Mo. Engin. Expt. Sta. B. 33, rev., 72 p. Ref. Feb.1, 1951. 290.9 M69

36061 SHAROV, I. A. New system of irrigation—most important means of agricultural production. (In Russian.) Vsesoyuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(10):3-12. 1950. 20 Ak1

36062 SITKOVSKIĬ, P. A. Organizatsiya i proizvodstvo gidromeliorativnykh rabot [Organization and construction of water conservation works]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 279 p. (Uchebniki i Uchebnye Posobiya dlya sel'skokhoz'fakul'tetnykh Tekhnikumov) 290 Si80

#### Drainage and irrigation canals, small dams, etc.

36063 SLATER, W. R., CURTISS, H., and OLIVER, P. A. Flood control in California. Engin. J. 34:13-17. Jan.1951. 290.9 En3

36064 SOUTHERN RHODESIA. IRRIGATION DEPT. Annual report for the year ended 31st December, 1949. Salisbury, 1950. 15 p. 55.9 R34

36065 STEEN, C. L. VAN. Review of the organization and work of the Agricultural Section of the Wieringermeer Direction (Northeast Polder Works). (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Maandbl. 7:525-531. Dec.1950. 12 N383M

36066 SUTTON, L. V. The proper approach to flood control. Edison Elect. Inst. B. 19(1, sect.1):1-3. Jan. 1951. 335.8 Ed4

36067 TAYLOR, C. S. Irrigation problems can be solved by thinking, planning, and action. N. Mex. Agr. Col. Ext. News 31:5. Jan.1951. 275.29 N463Ex.

36068 TOMLINSON, B. R., and WOODWARD, G. O. Water-life for the land! Wyo. Agr. Expt. Sta. C. 39, 16 p. Nov.1950. 100 W99

#### Efficient use of irrigation water.

36069 UNITED NATIONS. ECONOMIC AND SOCIAL COUNCIL. ECONOMIC COMMISSION FOR ASIA AND THE FAR EAST. BJR. OF FLOOD CONTROL. Methods of flood control. New York, 1950. 85 p. (United Nations. Doc. E/CN.11/Flood/1) 290 Un398

36070 VAN DER MERWE, P. J. First man to make rain fall on the lemon groves. (In Afrikaans.) Landbou-weekblad 32(1645):40-47. Jan.24, 1951. 24 L232

#### Sprinkler Irrigation.

36071 VERHOEVEN, B. Data on the diking of the Zuidplaspolder. (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Maandbl. 7:553-555. Dec.1950. 12 N383M

36072 WEAKLY, H. E., and NELSON, L. B. Irrigated crop rotations on the clay soils of western South Dakota. S. Dak. Agr. Expt. Sta. C. 83, 23 p. Dec.1950. 100 So82

36073 WOOD, I. D. Fields that irrigate themselves. West. Farm Life 53(4):5. Feb.15, 1951. 6 R153

36074 ZIEMER, G. L. Conservation factors in flood control planning. Iowa State Watersheds 1(8):16. (Cont.) Dec.1950. 290.8 Io9

#### Erosion and Erosion Control

36075 AMES, H. F. Fulton County farmer wins B & O award. Pa. Farmer 144:99, 134-135. Feb.10, 1951. 6 P383

#### Conservation farming.

36076 BARBER, V. A. Threat to vital soil and water conservation experiment; professor Lindsay Robb's research work at Keiskama Hoek changes weed-infested and arid area into rich pasture; how denuded mountain vegetation was speedily restored. Farmer's Wk. [Bloemfontein] 80:10-11, 13. Feb.7, 1951. 24 F225

36077 BECK, V. S. Weather disasters bring quick action toward Hondo Valley' comeback. Sowest. Crop & Stock 5(2):9, 54-55. Feb.1951. 6 So8942

Soil and water conservation activities, Lincoln County, New Mexico.

36078 BENNETT, H. H. Conservation—development—self government through districts. Washington, U. S. Soil Conserv. Serv., 1951. 10 p. 1.96 Ad62

Address annual meeting National Association of Soil Conservation Districts, Oklahoma City, Feb. 22, 1951.

36079 BENNETT, H. H. Forging ahead in soil and water conservation. Washington, U. S. Soil Conserv. Serv., 1951. 10 p. 1.96 Ad62

Address at premier showing of motion picture, Neighbors of the land, The Oliver Corporation, Vandalia, Ill., Mar. 12, 1951.

36080 BENNETT, H. H. Relation of soil erosion to coastal waters. Washington, U. S. Soil Conserv. Serv., 1951. 13 p. 1.96 Ad62

Address, Fourth Semi-Annual Seminar Texas Game, Fish, and Oyster Commission's Marine Laboratory, Rockport, Mar. 22, 1951.

36081 BLOW, T. H. The Vermont farmer conserves his soil. Better Crops Plant Food 35:20-23. Jan.1951. 6 B46



- 36082 BOATMAN, J. L. Soil conservation district administration. Washington. U. S. Ext. Serv., 1950. 7 p. 1.913 A2B63  
Talk at meeting of Soil Conservation District governing bodies, St. Cloud, Minn., Sept. 18, 1950.
- 36083 BRANNAN, C. F. Working together for conservation. Washington, U. S. D. A., Off. Sec., 1951. 12 p. 1.91 A2B73  
Talk at annual meeting of National Association of Soil Conservation Districts, Oklahoma City, Feb. 20, 1951.
- 36084 BROADFOOT, W. M. 48 grasses and legumes in erosion control experiment. Miss. Farm Res. [Miss. Sta.] 13(12):7. Dec. 1950. 100 M69Mi
- 36085 BRUGIERE, J. M. Le problème capital de la conservation des sols. Marches Colon. 7:91. Jan. 13, 1951. 286.8 M33  
French Equatorial Africa.
- 36086 BURN, J. He pioneered the study of soil erosion. Iowa Farm & Home Register 1951:14-H. Mar. 4, 1951. 6 Io94  
Soil erosion studies by R. M. Vifquain.
- 36087 CLIFTON, C. C. Beardsley points to soil conservation needs in Iowa. Iowa State Watersheds B. 1(7):12. Nov. 1950. 290.8 Io9
- 36088 COSTA RICA. MINISTERIO DE AGRICULTURA E INDUSTRIAS. Primera semana nacional de la conservación de los recursos naturales, 11-16 de setiembre de 1950. Costa Rica. Min. de Agr. e Indus. B. Divulg. 9, 16 p. 1950. 280.9 C822  
Soil, water, and forest conservation.
- 36089 CUBA, P. Conscience in soil conservation. (In Portuguese.) Rev. dos Mercados 1(3):54-56. Nov. 1950. 286.8 R328
- 36090 DAVIS, W. S., JR. Water and soil conservation. Fruit & Veg. Rev. 12(11):13. Feb. 1951. 80 C1224
- 36091 EINSTEIN, H. A. The bed-load function for sediment transportation in open channel flows. U. S. D. A. Tech. B. 1026, 71 p. Ref. 1951. 1 Ag84Te
- 36092 GROVES, D. E. Soil savers; dairy cows and fruit trees help keep soil in place. Ohio Farmer 207(5):10-11. Mar. 3, 1951. 6 Oh3
- 36093 HARAKI, M. J. More about soils. Countryman [Nicotia] 5(2):4-6. (To be cont.) Feb. 1951. 25 C83  
Soil erosion in Cyprus.
- 36094 HART, J. C. Grass is paying for this farm. Humble Farm Family 7(8):7. Jan. 1951. 6 F233  
Conservation farming in Texas.
- 36095 HUTCHINSON, D. E., and MCDOUGAL, O. J., JR. Grass down field waterways. Nebr. Agr. Col. Ext. E. C. 165, rev., 4 p. Nov. 1950. 275.29 N272Ex
- 36096 KOSTIAKOV, A. N. Stalin Plan to change the nature of the arid districts and problems of science in the field of [soil] conservation. (In Russian.) Akad. Nauk SSSR. Vest. 20(11):71-78. Nov. 1950. 511 Ak14V
- 36097 LAWS, P. It can happen here! A chartered surveyor shows how extensive areas in East Anglia are threatened with wind erosion of soil, as a result of the destruction of trees and hedges. Town & Country Planning 19:55-58. Feb. 1951. 98.58 T66
- 36098 LEHMAN, D. J. Agricultural conservation in New England and New York. Washington, U. S. D. A., Off. Sec., 1951. 4 p. 1.91 A2L52  
Summary of statement delivered at the first regular meeting of the New England-New York Inter-Agency Committee at Boston, Jan. 23, 1951.  
Land and water resources.
- 36099 MCKNIGHT, D. What soil conservation has done for my farm. Better Farms 10(9):9, 12. Mar. 1951. 6 B462
- 36100 MAHER, C. Soil conservation in Kenya Colony. II. Empire J. Expt. Agr. 18:233-248. Oct. 1950. 10 Em7
- 36101 MAKAROV, M. Forests along gullies and ravines. (In Russian.) Kolkhoz. Proizvodstvo 10(9):28. Sept. 1950. 281.8 K83  
On 12-letie Oktfabrsk Collective Farm in Shpolia District, Kiev Region.
- 36102 MARK, F. A. Conservation mission is to restore nature's balance; science and government aid farmers in their effort to rebuild land. East Idaho Farmer 19(46):26. Feb. 9, 1951. 6 Ea74
- 36103 MINDRUM, N. C. Conservation and the 4-H. Conserv. Volunteer 13(79):48-49. Nov./Dec. 1950. 279.8 C765  
Soil and forest conservation.
- 36104 MOODY, E. G. The soil—are we users or abusers of the land? Austral. Milk & Dairy Prod. J. 17(11/12):6-7. Nov./Dec. 1950. 44.8 Au72
- 36105 NORTON, E. A. Watershed protection and increased production through soil and water conservation. Washington, U. S. Soil Conserv. Serv., 1951. 9 p. 1.96 Su7N  
Talk at annual meeting of the Mississippi Valley Association, Feb. 13, 1951, St. Louis.
- 36106 OLINGER, G. Contribution to the study of erosion in the State of Santa Catarina. (In Portuguese.) DEACOOP, Inform. Coop. 2(11):23-31. Ref. July 1949. 280.28 D34
- 36107 PARKIN, N. E. Soil erosion. So. African Bankers' J. 47:356-360. Dec. 1950. 284.9 In73
- 36108 PAZZI, J. J. O. Run-off control in arid and semi-arid regions. Farming So. Africa 26(298):17-18. Jan. 1951. 24 So842
- 36109 PICASSO S., L. Erosión: grave problema en las provincias del Centro-Sur. Agrario 15(418):63. Nov. 1950. 9.3 Ag85  
Chile.
- 36110 QUINTEROS, M., AROCENA, E. O. T., and VERCESI, D. R. La erosión de los suelos. Tambo y Chacra 24(786):4. (Cont.) Jan. 12, 1951. 44.8 T15
- 36111 REICH, B. Conservation—for whom? Calif. Farm Rptr. 12(3):4-5. Mar. 1951. 281.8 C12  
Soil conservation and family farms.
- 36112 REITZ, W. W. How to recognize erosion in the Northeast. U. S. D. A. Agr. Inform. B. 27, 16 p. 1951. 1 Ag84Ab  
Supersedes Miscellaneous Publication 516.
- 36113 ROARK, C. They have a way with the land. Soil Conserv. 16:178-179, 188. Mar. 1951. 1.6 So3S  
Conservation farming in the Shenandoah Valley Soil Conservation District, Virginia.
- 36114 ROBBINS, H. B. The Christian and soil conservation. Iowa State Watersheds B. 1(7):3-4. Nov. 1950. 290.8 Io9
- 36115 ROBERTSON, T. C. Optimist looks at our soil plan. Veldtrust 11(11):2-5. Nov. 1950. 56.8 V54
- 36116 SLAYBACK, H. R. Does your farm go up in dust? N. J. Farm & Gard. 22(3):30-32. Mar. 1951. 6 G162
- 36117 STALLINGS, J. H. Keeping crop residues on surface of ground stops erosion & runoff. Better Farms 10(9):6, 15. Mar. 1951. 6 B462
- 36118 SUAREZ DE CASTRO, F. Relaciones entre la pendiente del terreno y la erosión. Agr. Trop. 7:47-49. Jan. 1951. 26 Ag8
- 36119 SUAREZ DE CASTRO, F. Trabajemos la tierra en contorno. Cent. Nac. de Invest. de Café. B. de Ext. 2, 4 p. Sept. 1950. 68.29 C33B
- 36120 U. S. PRODUCTION AND MARKETING ADMIN. Eleven years of conservation progress, (Stanley County, South Dakota). Washington, 1950? 4 p. 1.956 F45EL2
- 36121 U. S. SOIL CONSERVATION SERV. Summaries of annual reports of research project supervisors for calendar year 1949, by G. R. Stewart. Washington, 1950. 122 p. 1.96 Su6
- 36122 U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Sooner or later, soil conservation for your farm. Milwaukee, 1950. 8 p. 1.9605 So6
- 36123 VANNIER, H. Food and soil. Iowa State Watersheds B. 1(7):4-7. Nov. 1950. 290.8 Io9  
Importance of erosion control.
- 36124 VAN RENSBURG, C. J. J. Plan to save Union's soil. Farmer's Wk. [Bloemfontein] 80:49. Feb. 7, 1951. 24 F225  
Need for a nation-wide conservation effort in Union of South Africa.
- 36125 VEIHMEYER, F. J. Soil moisture, runoff, erosion. Natl. Wool Grower 41(3):21-22, 34. Mar. 1951. 45.8 N21N
- 36126 VELEDA, E. Agricultural importance of precipitation; its influence on soil and vegetation. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:114-117. July/Dec. 1950. 9.2 R325  
Includes erosion.
- 36127 WANTRUP, S. V. Dollars and sense in conservation. Calif. Agr. Expt. Sta. C. 402, 39 p. Jan. 1951. 100 C12S
- 36128 WILMOT-WARE, E. V. Erosion follows the excavator. Trees & New Earth 14:131-132. Winter 1950/51. 99.8 T714
- 36129 WILSON, C. S. World crisis calls for conservation. Conserv. Volunteer 13(79):1-8. Nov./Dec. 1950. 279.8 C765  
Soil and forests.



36130 WILSON, H. M., and KERR, H. A. Contour strip-cropping. N. Y. Agr. Col. Cornell Ext. B. 800,15 p. Dec.1950. 275.29 N48E

36131 WILSON, J. G. Raindrops—remember 'em? Carry powerful wallop. N. Mex. Agr. Col. Ext. News 31 (2):7. Feb.1951. 275.29 N463Ex  
Raindrop erosion.

36132 WURSTEN, J. L. Practical aspect of conservation is simple, it's profitable. East. Idaho Farmer 19 (48):44. Feb.9,1951. 6 Ea74

36133 YTTERBORN, G. R. Soil conservation necessary in some provinces; proposal for control of sand and soil erosion. (In Swedish.) Lantmannen 35:29-30. Jan. 13,1951. 11 L234

#### Sanitation

36134 ANDERSON, P. J., and SWANBACK, T. R. Fumigation of tobacco soils in the seedbed and in the field. Conn. (State) Agr. Expt. Sta. B. 542,23 p. Jan. 1951. 100 C76St

36135 JEFFERS, W. F. Soil fumigation—where are we now? Better Farming Methods 23(3):72-73. Mar. 1951. 58.8 B46

36136 LAMBERT, E. B. Sterilizing casing soil with formaldehyde. MGA Bulletin 22:72. Jan.1951. 80 M97

36137 LEAR, B. Work on soil fumigants continues. Farm Res. [N. Y. State Sta.] 17:2. Jan.1951. 100 N48A

36138 MILLER, L. I. The effect of nematocide and fungicide soil treatments on root-knot, pod rot, nodulation, and yield of peanuts. (Abs.) Va. J. Sci. (n.s.):1:334. Sept.1950. 470 V81

36139 OWENS, R. G., and ELLIS, D. E. The efficacy of certain chemical soil treatments against meadow nematodes. Phytopathology 41:123-126. Ref. Feb.1951. 464.8 P56

36140 VERONA, O. A plant sanitation practice of undoubted agricultural value. (In Italian.) Humus 6(11): 18-20. Nov.1950. 16 H88  
Soil disinfection.

#### MATERIALS FOR SOIL IMPROVEMENT

36141 DEBUSSON, E. B. New and substitute fertilizers. Border Scope 3:10. Jan/Feb.1951. 6 B64

36142 DICKEY, J. B. R. Superphosphate and manure. Pa. Farmer 144:202-203. Mar.10,1951. 6 P383

36143 EYSTER, W. H. Glauconite fertilizers, a must for 1951. Org. Gard. 18(2):52-56. Feb.1951. 56.8 Or3

36144 RODRIGUEZ, A. Abone con pulpa de café. Cent. Nac. de Invest. de Café. B. de Ext. 3,4 p. Oct.1950. 68.29 C33B

#### Primary Materials

36145 DOST, F. H. Die entdeckung der künstlichen düngung und ihr soziologischer sowie naturwissenschaftlicher hintergrund. Nat. u. Nahr. Ausg. B 4:116-118. (Concl.) Ref. Oct.1950. 80 N218B

36146 ENGEL, O. Glühphosphate als phosphorsäure-dünger. Tech. f. Bauern u. Gärt. Ausg. A 2:682-683. Dec.10,1950. 58.8 T223

36147 FLEISCHEL, H. Das thomasphosphat; sein werden, wesen und wirken. Tech. f. Bauern u. Gärt. Ausg. A 2:683. Dec.10,1950. 58.8 T223

36148 FUJIWARA, A. Chemical constitution and availability of iron and aluminum phosphates. I-II. Tohoku J. Agr. Res. 1:129-149. Mar.1950. 22.5 T574

36149 GRASSMANN, Ein wirksamer volldünger. Tech. f. Bauern u. Gärt. Ausg. A 2:684. Dec.10,1950. 58.8 T223

36150 JENSEN, T. Can we save superphosphate and potash? (In Danish.) Dansk Landbr. 70:37. Jan.18,1951. 280.28 V91

36151 PROEBSTING, E. L. Nitrogen sprays; tests reported with fertilizer containing 44% organic nitrogen. Calif. Agr. [Calif. Sta.] 5(3):12. Mar.1951. 100 C12Cag

36152 ROCASOLANO, C. El olor de los fertilizantes químicos. Cult. Mod. 33:450. Dec.1950. 15 C89

#### Secondary and Minor Element Materials

36153 BEAR, F. E. Plants and animals need the minor elements. Agr. Leaders' Digest 32(3):24. Mar. 1951. 275.28 Am3

36154 BRUNO, A. Carence potassique et carence zincique. Potasse 25(181):11-13. Jan.1951. 57.8 P84

36155 BRUNO, M. La carence zincique. Phytoma 3(21):10-13. Dec.1950. 464.8 P563

36156 TREMEARNE, T. H. Sulfur situation for 1951. Com. Fert. 82(3):20-21. Mar.1951. 57.8 C73

#### Fertilizer Statistics

36157 DEERING, F. J. Strength for American crops comes from Southwestern potash mines. Farmer-Stockman 54(3):13,59. (To be cont.) Mar.1951. 6 Ok45

36158 FUDGE, J. F. Distribution of fertilizer sales in Texas, July 1-December 31, 1950. Tex. Agr. Expt. Sta. Prog. Rpt.1325,2 p. Feb.14,1951. 100 T31P

36159 GARANTIER, J. L'industrie française des engrais azotés. Chim. & Indus. 65:251-252. Feb.1951. 383 C42

36160 LEPIDI, J. Les phosphates dans le monde. B. Econ. et Social de la Tunisie 48:25-31. Jan.1951. 280.8 B874

36161 MCVICKAR, M. H. The other half of the team. Crops & Soils 3(6):20-21,36. Mar.1951. 6 W55  
Fertilizer industry.

36162 MEHRING, A. L., and BENNETT, G. A. Price relationships of certain nitrogen fertilizer materials. 1-2. Agr. Chem. 6(2):47,49,51,81;(3):47,49,51,81. Feb.-Mar.1951. 381 Ag8

36163 PORTER, J. A. Better get your fertilizer. Mich. Farmer 215:160-169. Feb.17,1951. 6 M58

36164 PORTER, L. G., and TREMEARNE, T. H. The fertilizer outlook; nitrogen, potash supplies up; super-phosphates down. Agr. Situation 35(2):10-11. Feb.1951. 1 Ec7Ag

36165 SOPER, M. H. R. Fertilisers and feedingstuffs in Agricultural Co-operative Association. The farmer in business, p.23-37. London,1951. 280.2 Ag83F

36166 SPIT, J. M. What fertilizers are cheap? (In Dutch.) Betuws Tuinbouwl. 8(22):4-5. Jan.20,1951. 80 B404

36167 SPORCQ, P. Considérations sur la possibilité de fabriquer des engrais au Congo Belge. Inst. Roy. Colon. Belge. B. des Séances 21:764-773. 1950. 504 B836

36168 U. S. PRODUCTION AND MARKETING ADMIN. The fertilizer situation for 1950-51, by L. G. Porter and T. H. Tremearne. Washington,1951. 5 p. 1.9424 M2F41

36169 WAGENSELLER, K. The plant food outlook for 1951. (Excerpts.) Grain & Feed Rev. 40(5):10. Jan.1951. 280.28 G78

36170 WESTON, S. The economics of choosing fertilisers. Planter 26:535-538. (Concl.) Dec.1950. 78.8 P69

36171 WILLIAMS, F. H. Fertilizers for 1951; registered brands. Victoria. Dept. Agr. J. 49:18. Jan.1951. 23 V66J

#### Mineral Soil Amendments

36172 SCOTT, L. C. The advantages of stockpiling lime. New Zeal. J. Agr. 81:501-502. Dec.15,1950. 23 N48J

36173 SMITH, A. M., COMRIE, A., and SIMPSON, K. The evaluation of liming materials for agricultural purposes. Analyst 76:58-65. Feb.1951. 382 Ani  
Includes discussion.

36174 WILLIAMS, F. H. Agricultural lime—brands registered for 1951. Victoria. Dept. Agr. J. 49:8. Jan. 1951. 23 V66J

#### Mixed Fertilizers and Fertilizer Technology

36175 CLARK, K. G., GADDY, V. L., and JACOB, K. D. Availability of the water-insoluble nitrogen in mixed fertilizers. Agron. J. 43:57-61. Feb.1951. 4 Am34P

36176 LOCKWOOD, M. H. Possible improvement in physical characteristics of fertilizers to aid the farm implement manufacturer. Natl. Joint Comt. Fert. Appl. Proc. 26:84-85. 1950. 57.9 N216

36177 MASSACHUSETTS. FERTILIZER CONTROL SERV. Inspection of commercial fertilizers and agricultural lime products. Mass. Agr. Expt. Sta. Control Ser. B. 145,15 p. July 1950. 100 M38H

36178 MINNESOTA DEPT. OF AGRICULTURE, DAIRY AND FOOD. 1950 fertilizer analyses and registrations. St. Paul,1950. 86 p. 57.9 M66



- 36179 OWENS, J. S. Agronomists choose fertilizer grades. New Eng. Homestead 124(4):8-9. Feb.24,1951. 6 N442
- 36180 ZIZA, A. Preparation of granulated peat-mineral [superphosphate] fertilizers on peat fields. (In Russian.) Sovet. Agron. 8(11):77-81. Nov.1950. 20 So84

#### Manures and Composts

- 36181 AMSCHLER, L. Gülle und güllerettechnik. Tech. f. Bauern u. Gärt. Ausg. A 2:591-592,619-620. Oct.25-Nov.10,1950. 58.8 T223
- 36182 BURROWS, S. The use of indicator papers for pH tests on compost & soil. Mushroom Res. Assoc. Rpt. 1949:55. 84 Y2
- 36183 DICKEY, J. B. R. More on manure. Pa. Farmer 144:104,120. Feb.10,1951. 6 P383
- 36184 DUCAP, R. Le fumier artificiel. Blé et la Vln 28(1161):3-4. Jan.21/28,1951. 14 B61
- 36185 EDWARDS, R. L. Directions for making M.R.A. compost. Mushroom Res. Assoc. Rpt. 1949:45-48. 84 Y2
- 36186 EDWARDS, R. L. What does your compost cost? Mushroom Res. Assoc. Rpt. 1949:51-54. 84 Y2
- 36187 EITAN, E. Increasing production of org. manure. (In Hebrew.) Hassadeh 31:46-47. Oct.1950. 26 H27
- 36188 GOETZ, K. Mistwirtschaft oder misswirtschaft? Tech. f. Bauern u. Gärt. Ausg. A 2:693-694. Dec.10,1950. 58.8 T223
- 36189 HARDY, J. Don't skimp carnations; well-prepared compost gives best results. Nurseryman & Seedsman 112:312-314. Feb.1,1951. 80 N933
- 36190 HEWITT, A. C. T. Farmyard manure disposal. Victoria. Dept. Agr. J. 49:1-7. Jan.1951. 23 V66J
- 36191 PARROTT, P. H. Wishing well compost heap. Org. Gard. 18(2):23. Feb.1951. 56.8 Or3
- 36192 ROIG MIRO, J. El biogás y el desarrollo de la agricultura. Reus Avic. 21:7,9. Jan.1951. 47.8 R31 Methane.
- 36193 SUDRE, J. Le fumier artificiel. Potasse 25:31-34. Feb.1951. 57.8 P84 Compost.

#### FORESTRY

##### GENERAL

- 36194 BISTRAM, VON. Rückblick auf 1950. Deut. Forstmann, p.77-79. In Forst u. Holz 5. Dec.15,1950. 99.8 F7724
- 36195 BUCHHOLZ. Die bedeutung des waldes für wirtschaft und kultur. Forstwirt. Holzwirt. 4:257-263. Sept.1/15,1950. 99.8 F7793
- 36196 CABRAL, A. Honor for the tree. (In Portuguese.) Azores. Comis. Regulad. dos Cereals. B. 7(13):80-86. First Semes.1951. 15 Az6
- 36197 COLLINS, T. W. Forest conservation in the western regions: western pine region. West. Forestry & Conserv. Assoc. Proc. 41:62-63. 1950. 99.9 W522
- 36198 COMMONWEALTH FORESTRY BUR., OXFORD, ENG. Guide to the use of Forestry Abstracts. Oxford,1950. 62 p. 241.01 C73G
- 36199 DANA, S. T. The growth of forestry in the past half century. J. Forestry 49:86-92. Feb.1951. 99.8 F768
- 36200 DANNECKER, K. Was lehrt uns der einstige urwald unserer zonen? Holz-Zentbl. 76:1603. Nov.28, 1950. 99.81 H742 Germany.
- 36201 DAUSTER, K. H. Aufklärung und belehrung. Forst u. Holz 6:17-18. Jan.15,1951. 99.8 F7724 Public relations in forestry.
- 36202 ECKMÜLLNER, O. Um die grüne front. Allg. Forstztg. 62:10-11. Jan.1951. 99.8 AL53
- 36203 FRITZ, E. Timber and men—what is the future of western private forestry? Pacific Discovery 3(5):20-28. Nov./Dec.1950. 500 P112
- 36204 HERR, C. S. A private industry program in selling forestry to the workers and the public. Pulp & Paper Mag. Canada 52(2):79-82. Feb.1951. 302.8 P96

- 36205 ILVESSALO, Y. International forest research in a new phase. (In Finnish.) Metsätaloudellinen Aikakauslehti 1950:347-349. Nov.1950. 99.9 F49 Description of the International Union of Forest Research Agencies. English summary.

- 36206 JUNI, R. A. Of trees and men. Agr. & Indus. Life 13:17,32. Jan.1951. 25 Ag8

- 36207 KOLLMANN, F. Holztagung 1950 der Deutschen Gesellschaft für Holzforschung. Holz-Zentbl. 76:1691-1692,1701-1703. Dec.14-16,1950. 99.81 H742

- 36208 MARQUIS, R. W. Dollar signs and social values. J. Forestry 49:107-108. Feb.1951. 99.8 F768

- 36209 MATHIESEN, H. K. Current forestry problems in Hedmark. (In Norwegian.) Tidsskr. f. Skogbruk 58:217-232. Sept.1950. 99.8 T432

- 36210 MOIR, S. Western Forestry [and Conservation Association] in 1950. West. Forestry & Conserv. Assoc. Proc. 41:6-7. 1950. 99.9 W522

- 36211 REGO, G. M. E. The forest problem of S. Miguel Island. (In Portuguese.) Azores. Comis. Regulad. dos Cereals. B. 7(13):1-28. First Semes.1951. 15 Az6

- 36212 RYLE, G. B. Forestry in South Wales, a generation of destruction and conservation. Q. J. Forestry 44:193-201. Oct.1950. 99.8 Q2

- 36213 SKACHKOV, A. I. Working centre of the oak forest conservation stations. (In Russian.) Lesn. Khos. 3(7):52-53. July 1950. 99.8 L5622

- 36214 TUTENKOV, N. N., and GURINOVICH, L. S. At the constructions [of buildings and houses] of forest conservation stations in the oak forests. (In Russian.) Lesn. Khos. 3(7):41-51. July 1950. 99.8 L5622

- 36215 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications July 1 to December 31, 1950. Madison,1951? 13 p. 1 F7692L

- 36216 U. S. FOREST SERV. SOUTHEASTERN FOREST EXPERIMENT STATION. Bibliography of the Southeastern Forest Experiment Station for the calendar year 1950. Asheville,1951. 7 p. 1.9622 S4B472

- 36217 WATTS, L. F. The role of forests and foresters in our national economy. Washington, U. S. Forest Serv.,1950. 6 p. 1.962 A2W34

- Address at Golden Anniversary Meeting of Society of American Foresters, Washington, D. C., Dec. 16, 1950.

- 36218 WESTERN FORESTRY AND CONSERVATION ASSOCIATION. Proceedings of the 41st annual conference, San Francisco, California, December 6, 7, 8, 1950. Portland,Oreg.,1950. 88 p. 99.9 W522

- 36219 ZIERAU, E. Urwaldgeheimnisse. Wald u. Holz 32:90-93. (Concl.) Jan.1951. 99.8 W15

#### Education

- 36220 VIEBIG, J. Die ausbildung der gemeindeforstwarte. Allg. Forstz. 6:55-56. Jan.31,1951. 99.8 AL52

#### Policies, Programs, Administration

- 36221 ALCARAZ, J. R. Proyecto para la creación de la unidad forestal en los laboratorios nacionales de fomento industrial. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3:43-45. 1950. 99.9 C7622

- 36222 BASSETT, E. W. The sale of Crown timber in B. C. Brit. Columbia Lumberman 35(2):46-48,110,112, 114,116,118. Feb.1951. 99.81 B77

- 36223 BJARNASON, H. The planting trip of Norwegian youth to Iceland in the summer 1949. (In Norwegian.) Skogen 15:89-94. 1950. 99.8 Sk56 Reforestation of Iceland.

- 36224 BOLTON, LORD. The place of hardwoods in Pennine forestry. Q. J. Forestry 44:202-206. Oct.1950. 99.8 Q2

- 36225 BOMBAY. FOREST ADMIN. Annual report, 1947-48. II. Bombay,1950. 125 p. 99.9 In2Bo

- 36226 BORGO BILLA, G. Como procurar la explotación racional de los bosques. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3:54-55. 1950. 99.9 C7622

- 36227 BRUGAROLA, M. La repoblación forestal. Montes 36:737-745. Nov./Dec.1950. 99.8 M763 Spain.

- 36228 BUCHHOLZ. Die forstwirtschaft und der III. Parteitag der Sozialistischen Einheitspartei Deutschlands. Forstwirt. Holzwirt. 4:241-242. Aug.15,1950. 99.8 F7793



- 36229 CASTRO RIVERA, S. Sugestiones para la mejor solución de los problemas que afectan a la explotación forestal mexicana. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3:35-36. 1950. 99.9 C7622
- 36230 DEHRA DUN. FOREST RESEARCH INSTITUTE. Forest research in India, 1946-47. II. Reports for Burma and Indian Provinces. Calcutta, 1950. 150 p. 99.9 In23
- 36231 DEMME, H. Die forstwirtschaft auf der gesamtdeutschen Beratung der Land- und Forstwirtschaft in Eisenach vom 18-21 Mai 1950 und in Frankfurt a. Main vom 13-19 Juni 1950. Forstwirt. Holzwirt. 4:209-211. July 15, 1950. 99.8 F7793
- 36232 DIETERICH, V. Richtpunkte zeitgerechter organisation der planungs- und lenkungsarbeit im nachstaatlichen waldbesitz. Holz-Zentbl. 76:1593-1594. (Concl.) Nov. 25, 1950. 99.81 H742  
Germany.
- 36233 DOBROKHVALOV, V. P. Ocherk istorii stepnogo lesorazyvedeniia [Historical outline of afforestation of the Steppe]. Moskva, Moskovskii Universitet, 1950. 205 p. 99.45 D65
- 36234 ERNST. Holzwirtschaftspolitik. Allg. Forstz. 6:68-70. Feb. 7, 1951. 99.8 AL52  
Germany.
- 36235 ESTÉVEZ, I. La Asociación Nacional de Productores de Maderas de Pino, la profesión forestal y la situación forestal del país. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3:91-92. 1950. 99.9 C7622
- 36236 FINLAND. METSÄTIETEELLISEN KOELAI-TOKSEN. Forest research institute in Finland 1918-1948. Finland Metsätieteellisen Tutkimuslaitoksen Julkaisu. 37(4), 37 p. 1949. 99.9 F493
- 36237 GOMEZ GONZALEZ, F. Loable programa de mejoramiento y cooperación forestal. Tierra [Mexico] 6: 110-111. Feb. 1951. 8 T445
- 36238 GOMEZ GONZALEZ, F. La reforestación en Corea. Rev. de Agr. [San José] 23:23-24. Jan. 1951. 8 En1'
- 36239 GÓMEZ GUTIÉRREZ, A. El problema de la repoblación y reforestación en México. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3:93-96. 1950. 99.9 C7622
- 36240 GRANDCOURT, O. DE. La querelle de l'allénation des forêts domaniales en 1865, par Edmond About, journaliste forestier. Action Forest. et Piscicole 159: 4-5. Dec. 1950. 99.8 Ac8
- 36241 GT. BRIT. FORESTRY COMMISSION. Thirtieth annual report for the year ending September 30, 1949. London, 1950. 148 p. 99.9 G795A
- 36242 GUIZA Y AZEVEDO, J. Ya era tiempo de que el estado pusiera toda su autoridad en cuidar los bosques. Confed. de Cám. Nac. de Com. Carta Semanal 14(712):10, 16. Feb. 3, 1951. 286.8 C76  
Mexico.
- 36243 GUSOVIUS, H. Das oberforstamt. Forst u. Holz 5:371-372. Dec. 1, 1950. 99.8 F7724  
Germany.
- 36244 HENSLE. Landeskulturelle aufgaben des waldes und ihre auswirkung auf die holzpreise. Holz-Zentbl. 76:1639. Dec. 5, 1950. 99.81 H742
- 36245 HERVE, J. Le problème du reboisement sera résolu 1, par le Fonds National Forestier, 2, par la mécanisation. J. de la France Agr. 6:1241, 1246-1247. Dec. 1/7, 1950. 14 J829
- 36246 HORNING, W. H. Objectives and practices on the forests of the United States Department of the Interior. West. Forestry & Conserv. Assoc. Proc. 41:26-29. 1950. 99.9 W522
- 36247 HUTCHISON, S. B. A yardstick for judging public forestry projects. J. Forestry 49:99-103. Feb. 1951. 99.8 F768  
With comment by H. J. Vaux.
- 36248 IDAHO. STATE FORESTER. Thirteenth biennial report, 1949-50. Boise, 1950. 34 p. 99.9 Id15
- 36249 ILSE, K. E. Die breite grundlage. Forst u. Holz 6:23-24. Jan. 15, 1951. 99.8 F7724
- 36250 ITALY. CORPO FORESTALE DELLO STATO. ISPETTORATO RIPARTIMENTALE DI BERGAMO. Relazione annuale sui lavori eseguiti in Provincia di Bergamo durante l'esercizio 1948-49 [Annual report of activities in the Province of Bergamo during the 1948-49 season]. Bergamo, 1950. 53 p. 99.9 It1
- 36251 KINNEY, J. P. Indian forest and range; a history of the administration and conservation of the Redman's heritage. Washington, Forestry Enterprise, 1950. 357 p. Ref. 99.61 K62
- 36252 LEZAMA MICHEL, R. Reforestación en el Estado de Durango, historia, trabajos efectuados y programa para el futuro. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3:80-82. 1950. 99.9 C7622
- 36253 LORENZ-LIBURNAU, H. Zum geburtstag der "Österreichischen Forstkommission" im forstgesetz und an der hochschule brauchen wir standortsschutz. Allg. Forstz. 62:1-8. Jan. 1951. 99.8 AL53
- 36254 MOLINA TREJO, P. La gravedad del problema forestal de México. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3:37-38. 1950. 99.9 C7622
- 36255 NARDO, G. DE. Ordinary cutting and extraordinary cutting. (In Italian.) Italia Forest. e Mont. 5: 195. Sept./Oct. 1950. 99.8 It12  
Policy.
- 36256 NATIONAL FOREST RESERVATION COMMISSION. Letter from the Secretary of the Army transmitting, pursuant to law, a report of the National Forest Reservation Commission for the year ended June 30, 1949. 81st Cong., 2d sess., S. Doc. 126, 27 p. 1950. 99.9 N216
- 36257 NIESSLEIN, E. Aktuelle fragen der forstlichen personal- und arbeiterpolitik. Allg. Forstz. 62:21-25. Feb. 1951. 99.8 AL53
- 36258 OECHSLIN, M. Politique forestière rétrograde? Forêt 4:26-29. Nov. 1950. 99.8 F7683  
Switzerland.
- 36259 OLLENDORFF, A. Forest planting by school children. (In Norwegian.) Skogen 15:85-89. 1950. 99.8 Sk56  
Also in Tidsskr. f. Skogbruk 58:232-236. Sept. 1950. 99.8 T432
- 36260 OPSAHL, W. Reforestation problems and the pulp and paper industry. (In Norwegian.) (Sum.) Skogbruken 25:291-292. Dec. 1950. 99.8 Sk54  
Government aid to reforestation in Norway.
- 36261 PARFENOV, A. There is no order in the forestry planning of Kazakhstan. (In Russian.) Lesn. Khoz. 3(7):88. July 1950. 99.8 L5622
- 36262 PATRONE, G. The school and forest administration. (In Italian.) Italia Forest. e Mont. 5:163-167. Sept./Oct. 1950. 99.8 It12  
French summary.
- 36263 PIHA, A. The dedication scheme of the British woodlands. (In Finnish.) Metsätaloudellinen Aikakauslehti 1950:350-352. Nov. 1950. 99.9 F49  
English summary.
- 36264 PRIOTON, J. Les réserves de reconstitution forestière. Rev. Forest. Franc. 3:1-20. Jan. 1951. 99.8 R329
- 36265 PROKOF'EV, A. To keep the transferable Red Banner. (In Russian.) Lesn. Khoz. 3(7):80-81. July 1950. 99.8 L5622  
Achievements of Kalinin Forest Conservation Station.
- 36266 RAZOVS, P. Les bois et forêts d'Auvergne et les reboisements possibles. Bois et Scieries 56:1104-1105. Nov. 30, 1950. 99.81 B632
- 36267 REHWINKEL. Die wiederaufforstung des jan privatwaldes. Landwirtsch. Weser-Ems 1951:6-7. Jan. 4, 1951. 18 L2345
- 36268 RODRIGUEZ MUÑOZ, R. Recursos y usos de un fondo permanente y un sistema de crédito forestal. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3: 119-132. 1950. 99.9 C7622
- 36269 SASKATCHEWAN. DEPT. OF NATURAL RESOURCES. Annual report for the fiscal year ended March 31st. Regina, 1950. 149 p. 279.9 Sa7  
Includes the report of the Forestry Branch.
- 36270 SCHEUBLE, R. Zum 75 jährigen bestande der Forstlichen Bundes-Versuchsanstalt Mariabrunn. Mitt. der Forstl. Bundes-Versanst. Mariabrunn 46:3-41. First/Second Q. 1950. 99.8 M69
- 36271 STARČEVIĆ, J. Technical normalization and rationalization. (In Croatian.) Sumarski List 74:421-427. Nov. 1950. 99.8 Su6  
Forestry.
- 36272 STREHLKE. Abbau statt aufbau? Forst u. Holz 6:1-4. Jan. 1, 1951. 99.8 F7724  
Germany.
- 36273 TRINIDAD. FOREST DEPT. Annual administrative report for the year 1949. Trinidad, 1950. 26 p. 99.9 T73
- 36274 TURNER, S. D. Forest work camps. West. Forestry & Conserv. Assoc. Proc. 41:44-45. 1950. 99.9 W522  
For juvenile delinquents.



36275 VINCENT, S. Pourquoi il faut fêter les arbres. Foyer Rur. [Montreal] 10(5):3. Feb.1951. 7 F83 Canada.

36276 WATTS, L. F. The Forest Service's place in defense mobilization. West. Forestry & Conserv. Assoc. Proc. 41:9-11. 1950. 99.9 W522

36277 WENSE, A. E. VON DER. Abbau statt aufbau? Forst u. Holz 6:19. Jan.15,1951. 99.8 F7724

36278 WEST VIRGINIA. CONSERVATION COMMISSION. Annual report July 1, 1949, to June 30, 1950. Charleston, 1950. 91 p. 279.9 W52 Includes report of the Division of Forestry.

36279 WOODS, J. B., JR. The regeneration of the Tillamook Burn. West. Forestry & Conserv. Assoc. Proc. 41:17-18. 1950. 99.9 W522

36280 ZÜHLKE, S. Zur auflösung der landesforstämter. Forst u. Holz 5:370-371. Dec.1,1950. 99.8 F7724 Germany.

#### Legislation and Taxation

36281 LEFORS, A. O. Influence of forest land taxation on managed conservation. West. Forestry & Conserv. Assoc. Proc. 41:78-79. 1950. 99.9 W522

36282 LINDSTROM, K. B. Legislation concerning the building of forest workers' lodgings. (In Finnish.) Metsätaloudellinen Aikakauslehti 1950:365-366. Nov.1950. 99.9 F49 English summary.

36283 SACCHI, G. La loi pour la montagne et l'Administration Forestière de l'État. (In Italian.) Italia Forest. e Mont. 5:203. Nov./Dec.1950. 99.8 It12 French summary.

#### Forest Description and Resources

36284 BEDNALL, B. H. State pine forests in South Australia. So. Austral. Woods & Forests Dept. B. 3, 24 p. 1950. 99.9 So8

36285 CANADA. DEPT. OF RESOURCES AND DEVELOPMENT. FORESTRY BR. Canada's forests excluding Newfoundland, 1951. n.p.1951. 8 p.-folder. 99.73 C16C Statistics.

36286 CARLINI, V. Trip across Argentina. (In Italian.) Indus. del Legno 2(11):33,35-36. Nov.1950. 99.82 In2

36287 FRENCH, H. E. Seeing the Caribbean National Forest. Natl. Parks Mag. 25(104):18-25. Jan./Mar.1951. 98.69 N21

36289 GAZONNAUD, R. Les forêts du Gabon. Marchés Colon. 7:119-121,125. Jan.13,1951. 286.8 M33

36289 GUINIER, P. Physionomie forestière de la France. Forêts de France 27:6. (To be cont.) Dec.1950/Jan.1951. 99.9 F315

36290 KERNAN, H. S. Forests of Bolivia. Amer. Forests 57(3):14-15,35,37. Mar.1951. 99.8 F762

36291 LOFFLER, H. D. Freiburger forststudenten in Schweden 1950. Allg. Forstz. 6:79-82. Feb.14,1951. 99.8 AL52

36292 MINNESOTA. OFF. OF IRON RANGE RESOURCES AND REHABILITATION. The forest resource of Carlton County, by L. Sandberg, A. G. Horn, and P. C. Gutlkey. St. Paul, 1950. 50 p. 99.14 M66

36293 MUSIL, A. Die wälder Albaniens. Forstwirt. Holzwirt. 4:282-283. Sept.1/15,1950. 99.8 F7793

36294 RUIZ, C. Nuestro patrimonio forestal. Agr. Austral 18:442-444. Oct.1950. 9.3 Ag842 Chile.

36295 U. S. FOREST SERV. Trinity National Forest, California. Washington?1950. Map. 1 F765Ma

36296 U. S. FOREST SERV. NORTHEASTERN FOREST EXPERIMENT STATION. Forest statistics for New Hampshire. U. S. Forest Serv. Northeast Forest Expt. Sta. Forest Survey Release 9,56 p. Oct.1950. 1.9622 N2F765

36297 VILLEGAS DE LA VEGA, R. Comarca forestal de Cabezón de la Sal, en la Provincia de Santander. Montes 36:717-720. Nov./Dec.1950. 99.8 M763

36298 VINJE, O. T. On the forest in Vinje. (In Norwegian.) Tidsskr. f. Skogbruk 58:161-164. July/Aug. 1950. 99.8 T432

36299 VYSOTSKIY, G. N. Forest covers and [shelter-belt] networks of U.S.S.R. (In Russian.) Pochvovedenie 1950:589-598. Oct.1950. 57.8 P34

36300 WITTICH, W. Impressions of a German forester on a study tour through Great Britain. Q. J. Forestry 44:121-127. July 1950. 99.8 Q2

#### Individual Genera and Species

36301 BRUSH, W. D. Monterey cypress, Cupressus macrocarpa, Hartweg. Amer. Forests 57(3):24-25. Mar. 1951. 99.8 F762

36302 CHEVEDAEV, A. A. To give a place to birch [Betula] among the steppe forest crops. (In Russian.) Lesn. Khoz. 3(7):36-39. July 1950. 99.8 L5622

36303 HELLEN. Forstlicher walnuszanbau für die forstwirtschaft und ernährung. Forstwirt. Holzwirt. 4:237-239. Aug.1,1950. 99.8 F7793

36304 HILEY, W. E. The western hemlock. Q. J. Forestry 44:128-136. July 1950. 99.8 Q2

36305 LIENARD, U. G. Communication sur la culture du peuplier. Agricultura [Louvain] 48:198-230. Dec.1950. 13 R32

36306 LOETSCH. Die bedeutung des korbweidenanbaues für die forstverwaltungen der öffentlichen hand. Forst u. Holz 5:381-384. Dec.15,1950. 99.8 F7724

36307 MESA BERNAL, D. El bambu y la guadua. Agr. Trop. 6(2):7. Feb.15,1950. 26 Ag8

36308 MOLL, F. Zur frage der Robinie. Forstwirt. Holzwirt. 4:231-232. Aug.1,1950. 99.8 F7793

36309 OLBERG, A. Zur frage der Douglasien- und lärchenbastarde. Allg. Forstz. 6:75. Feb.14,1951. 99.8 AL52

36310 ØSTERGAARD, J. Liriodendron tulipifera L.; the tuliptree. (In Danish.) Dansk Skovfor. Tidsskr. 35:597-608. Dec.1950. 99.8 D23

Its occurrence and growth in Denmark.

36311 POLDELMENGO, O. Disappearance of the beech in Cadore. (In Italian.) Italia Forest. e Mont. 5:188-190. Sept./Oct.1950. 99.8 It12 French summary.

36312 PRATT, E. R. The fastest growing tree [Populus eugeni]. Q. J. Forestry 44:142-144. July 1950. 99.8 Q2

36313 ROHMEDER, E. Zur frage der Douglasien- und lärchenbastarde. Allg. Forstz. 6:63-65. Feb.7,1951. 99.8 AL52

36314 ROL, R. Le hêtre ou fayard, Fagus silvatica. Forêts de France 27:2,11. Dec.1950/Jan.1951. 99.9 F315

36315 ROL, R., and VENET, J. Le platane. Rev. du Bois 6:5-8. Jan.1951. 99.82 R32

36316 SCHAEFFER, A. L'avenir du sapin dans le Jura. Rev. Forest. Franç. 3:56-59. Jan.1951. 99.8 R329

36317 SCHMIDT, K. Vermehrter pappelanbau soll die holzlücke schliessen. Holz-Zentbl. 76:1602. Nov.28, 1950. 99.81 H742

36318 SEVILLANO CARVAJAL, V. Producción industrial y comercio de la mimbre. Inform. Com. Españ. 205:1232-1239;206:1364-1367. Sept.-Oct.1950. 286.8 In3 Text in English, p. 1258-1262,1401-1403. Includes culture and processing.

#### FOREST MANAGEMENT AND FINANCE

36319 AUBLE, R. G. Timber trails. Mich. Conserv. 20(2):19-22. Mar./Apr.1951. 279.9 M582 Management in State forests.

36320 AUN, H. Forsteigene werkstätten. Tech. f. Bauern u. Gärt. Ausg. A 2:497-498. Sept.10,1950. 58.8 T223

Care of equipment.

36321 BELLUCCI, V. La production forestière des collines près de Livourne. (In Italian.) Italia Forest. e Mont. 5:204-210. Nov./Dec.1950. 99.8 It12

French summary.

Management aspects.

36322 DEMMON, E. L. A national policy for timber lands. U. S. Forest Serv. Lake States Forest Expt. Sta. Misc. Rpt. 16,5 p. Mar.1951. 1.9622 L2M68 Management.

36323 DESFARGES, P. Le travail dit "noir." Bois et Scieries 57:58-59. Jan.1951. 99.81 B632 France.

36324 FERGUSON, J. H. A. Indicator graph for Java teak. (In Dutch.) Tectona 40:359-364. Dec.1950. 99.8 B65

English summary.

36325 FLOYD, C. Denmark, 1950. Q. J. Forestry 45:5-22. Jan.1951. 99.8 Q2



36326 FROST, S. L. New roads to timber plenty. Amer. Forests 57(3):6-9, 28. Mar. 1951. 99.8 F762 Access roads.

36327 FRYJORDET, T. Forestry accounting. (In Norwegian.) Skogbrukeren 25:290-291. Dec. 1950. 99.8 Sk54

36328 JAGERSCHMIDT, L. Le voyage du Comité des Forêts en 1950 dans le Poitou et en Touraine: l'utilisation des machines dans les travaux forestiers. Acad. d'Agr. de France. Compt. Rend. 36:642-645. Nov. 15/22, 1950. 14 P215Bc

36329 KAUFMANN, F. Aus des forstmanns arbeitsstätte. Forstl. Mitt. 3:199-200. (To be cont.) Dec. 20, 1950. 99.8 F7725 Germany.

36330 KIRCHER, J. C., and DEXTER, A. K. Management of private coniferous forests of Japan. Supreme Commander Allied Powers. Nat. Resources Sect. Prelim. Study 43, 30 p. Jan. 1951. 280.9 Su72

36331 LIERSCH, J. E. Some observations on forestry practice in Scandinavia. West. Forestry & Conserv. Assoc. Proc. 41:20-23. 1950. 99.9 W522

36332 LINDGREN, I. Forest management to-day is often a question of roads and housing. (In Swedish.) Skogsägaren 26:236-238. Nov. 1950. 99.8 Sk55

36333 LUSTIG, E. Biologische sicherung von wegtrassen. Kärntner Bauer 100:461-463. Dec. 20, 1950. 19 K14

Also in Allg. Forstztg. 62:26-27. Feb. 1951. 99.8 AL53

36334 MARTI, L. Réglementation graphique du rendement basé sur l'économie des peuplements forestiers. (In Hungarian.) Erdészeti Lapok 86:227-231. (Cont.) Aug. 1950. 99.9 Er2 French summary.

36335 NIXON, W. A. Money and forestry. Q. J. Forestry 44:145-146. July 1950. 99.8 Q2

36336 POURTET, J. La mécanisation des travaux de reboisement. Compte rendu de la Journée du 18 novembre 1950 en Forêt d'Orléans. Rev. Forest. Franç. 3:38-46. Jan. 1951. 99.8 R329

36337 RANDET, P. L'aménagement des forêts. Forêts de France 27:7. (To be cont.) Dec. 1950/Jan. 1951. 99.9 F315

36338 RUTH, R. H., and SILEN, R. R. Suggestions for getting more forestry in the logging plan. U. S. Forest Serv. Pacific Northwest. Forest & Range Expt. Sta. Res. Note 72, 15 p. Dec. 1950. 1.9 F7629Fr

36339 RYLE, G. B. Forest management and dedication. Roy. Inst. Chartered Surveyors. J. 30:669-673. Feb. 1951. 282.9 C38J

36340 SMITH, C. The equipment test in Svenstrup Forest district April 12, 1950. (In Danish.) Dansk Skovfor. Tidsskr. 35:549-577. Nov. 1950. 99.8 D23

36341 STAMM, E. P. Forest conservation in operation in the Douglas fir region. West. Forestry & Conserv. Assoc. Proc. 41:63-67. 1950. 99.9 W522

36342 SUSMEL, L. Forest utilization in Cadore. (In Italian.) Italia Forest. e Mont. 5:233-237. Nov./Dec. 1950. 99.8 It12

36343 TAPP, J. W. Banking assistance to forest enterprise. West. Forestry & Conserv. Assoc. Proc. 41:73-74. 1950. 99.9 W522

36344 THIELMANN, K. Der maschineneinsatz in der forstwirtschaft. Holz-Zentbl. 76:1709. Dec. 16, 1950. 99.81 H742

36345 TINKER, E. W. The business of growing trees for the pulp and paper industry. West. Forestry & Conserv. Assoc. Proc. 41:74-75. 1950. 99.9 W522

36346 U. S. FOREST SERV. SOUTHERN FOREST EXPERIMENT STATION. Thirteenth annual cut, good farm forestry forty. Crossett, Ark., 1950. 6 p. 1.9622 S20n2 Forest management, Crossett Experimental Forest.

36347 VANSELOW, K. Die kontrollmethode. Allg. Forstz. 6:73-74. Ref. Feb. 14, 1951. 99.8 AL52 Germany.

36348 VELAY, L. Les investissements du Fonds Forestier National dans l'équipement routier des forêts de montagne. Soc. Forest. de Franche-Comté et des Prov. de l'Est. B. Trimes. 25:671-679. Dec. 1950. 99.9 So14

36349 VOSKRESENSKIY, D. On the cost of tractor work of the forest conservation stations. (In Russian.) Lesn. Khoz. 3(7):56-59. July 1950. 99.8 L5622

36350 WALTER, F. Leistungsprüfung 1947 in Bärenthoren. Forstwirtschaft. Holz. 4:285-287. Sept. 1/15, 1950. 99.8 F7793

36351 WEBER, F. K. Die forstlichen verwaltungskosten. Allg. Forstz. 6:58-59. Jan. 31, 1951. 99.8 AL52

36352 WELSH, W. D. Tree farming and managed conservation. West. Forestry & Conserv. Assoc. Proc. 41:60-62. 1950. 99.9 W522

36353 WOHLBERG, E. T. F. Some financial problems of long-term forestry. West. Forestry & Conserv. Assoc. Proc. 41:75-77. 1950. 99.9 W522

36354 ZIEGLER, H. Ist auch Vorarlbergs waldwirtschaft im rückgange? Allg. Forstztg. 62:8-10. Jan. 1951. 99.8 AL53

#### Farm Woodlands

36355 ABETZ, K. Beratung und förderung im bauernwald. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:212-214. Feb. 8, 1951. 18 L2346

36356 ABETZ, K. Mehrleistung im bauernwald! Bauern Ztg. 3:632-633; 4:6. Dec. 22, 1950. Jan. 5, 1951. 18 B324 Germany.

36357 BALLARD, R. E. Profits from South Jersey farm wood lots. Soil Conserv. 16:176-177. Mar. 1951. 1.6 So3S

36358 BODDY, H. Peninsula farmers put trees to use; by sustained-yield cuttings in woodlots, they're assured of a ready lumber supply at comparatively low cost for as long as they'll need. Wash. Farmer 76:151. Mar. 1, 1951. 6 R151

36359 CHAPMAN, W. L. Georgia farmers "farm" their woods. Atlantic Coast Line Agr. & Livestock Topics 3(2):1, 4. Feb. 1951. 6 At63

36360 FOX, A. C. Wintering birds need shelter and food. N. Dak. Outdoors 13(8):10-11. Feb. 1951. 412.9 N815

Farm shelterbelts.

36361 MCMILLEN, V. The windbreak that paid off. West. Live Stock 36(6):13, 68. Jan. 1951. 49 W523

36362 NELSON, A. L. Adolph Nelson has a tree farm. Conserv. Volunteer 13(79):39-42. Nov./Dec. 1950. 279.8 C765 Minnesota.

36363 PURNELL, D. C., and ROSS, C. R. Windbreaks for western Oregon. Oreg. State Col. Ext. B. 714, 18 p. Feb. 1951. 275.29 Or32B

36364 ROSEBERRY, R. D. A tree farmer looks to his woodlot. West. Forestry & Conserv. Assoc. Proc. 41:18-19. 1950. 99.9 W522

36365 SAENZ DOZAL, R. Importancia de las cortinas rompe-vientos. Mensajero Forest. 9(78):9-10. Dec. 1950. 99.8 M522

36366 STEVEN, H. M. Uses of pine trees on the farm. New Zeal. J. Agr. 81:529-531, 533, 535-537. Dec. 15, 1950. 23 N48J

Characteristics of the better-known pines and the uses to which they may be put.

36367 WEISMAYER, L. Rettet unseren bergbauernwald! Kärntner Bauer 100:459-461. Dec. 20, 1950. 19 K14

36368 WRIGLEY, P. I. A woodland hobby pays off. Pa. Farmer 144:116-117. Feb. 10, 1951. 6 P383

#### Mensuration

36369 ANTONIOTTI, G. B. Volume table for turkey oaks [Quercus laevis] in clear cutting forest in Molise. (In Italian.) Italia Forest. e Mont. 5:191-194. Sept./Oct. 1950. 99.8 It12

English summary.

36370 CANTIANI, M. Table relative à la hauteur du tronc utilisable du sapin du Haut-Molise. (In Italian.) Italia Forest. e Mont. 5:211-213. Nov./Dec. 1950. 99.8 It12

French and German summaries.

36371 CLAUSER, F. Volume tables for Vallombrosa fir. (In Italian.) Italia Forest. e Mont. 5:195-196. Sept./Oct. 1950. 99.8 It12

36372 GRÜNEWALD. Betrachtungen zur ausformung von fichtenstammholz. Forst u. Holz 6:4-6. Jan. 1, 1951. 99.8 F7724

36373 HEMPEL, F. Zum ausbau der schaffformforschung. Allg. Forstztg. 62:25-26. Feb. 1951. 99.8 AL53

36374 KADAMBI, K. On the use of the simplified planimeter. Indian Forester 76:487-488. Nov. 1950. 99.8 In2



36375 LOCKARD, C. R. Log grading problems. Wood [Chicago] 6(3):24,38,40,42,45. Mar.1951. 99.82 W859

36376 MESCHINI, A. Determination of the average height of a stand of trees. (In Italian.) Italia Forest. e Mont. 5:230-232. Nov./Dec.1950. 99.8 H12  
English summary.

36377 SCHOEN, P. W. Are you selling your trees? Prog. Farmer, Tex. Ed. 66(3):80,82. Mar.1951. 6 T311 Mensuration.

36378 TREVINO SALDANA, C. La standarización de las medidas en las maderas en relación con la protección del bosque. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3:15-16. 1950. 99.9 C7622

36379 WHITEFORD, P. B. Estimation of the ages of forest stands in the prairie-forest border region. Ecology 32:143-147. Jan.1951. 410 Ec7

#### Aerial Surveying and Photography

36380 BAKKEN, A. Aerial photography of forests. (In Norwegian.) Skogbrukeren 26:17-20. Feb.1,1951. 99.8 Sk54

36381 CORNIDES, G. Estimation of stand volume by aerial photographs. (In Hungarian.) Erdészeti Lapok 86:242-246. Aug.1950. 99.9 Er2  
English summary.

36382 CUNNINGHAM, J. F. Air survey and the world forest inventory. Thunder Bay Timber Oper. Assoc. Log. Book 2(5):10. Jan./Feb.1951. 99.9 T42

36383 STUBBS, D. A. A portable light box for use with aerial photographs. Wash. U. Forest Club Q. 24:25-27. 1950/51. 99.9 W275Q

#### Silviculture

36384 ANDERSEN, M. The balance in mixed cultures of Red spruce and Sitka spruce. (In Danish.) Dansk Skovfor. Tidsskr. 36:1-44. Jan.1951. 99.8 D23

36385 BLANCO, C. Sitios de experimentación silvícola. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3:83-89. 1950. 99.9 C7622

36386 CEDILLO, V. H. Procedimiento para la determinación de las existencias normales en montes de clima templado y frío-preliminares de ordenación. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3:97-114. 1950. 99.9 C7622

36387 DANILOV, M. D. Drying up of Acer varieties in the Quercus plantations. (In Russian.) Lesn. Khoz. 3(8):79-81. Aug.1950. 99.8 L5622

Due to insufficient distribution of moisture in trees.

36388 EDWARDS, M. V. Burma forest types (according to Champion's classification). Indian Forest Rec. New Ser. Silvicult. 7:135-173. Ref. 1950. 99.8 In22S

36389 EVANS, J. D. D. Red cedar and European larch in mixture. Q. J. Forestry 44:137-142. July 1950. 99.8 Q2

36390 FOURCHY, P. Sécheresse; variations climatiques et végétation. Rev. Forest. Franç. 3:47-55. Ref. Jan.1951. 99.8 R329

36391 HEIKINHEIMO, O. Tuloksia kuusen ja männyn maantieteellisiä rodulla suoritetuista kokeista. Results of experiments on the geographical races of spruce and pine. Finland. Metsätieteellisen Tutkimuslaitoksen. Julkaisu. 37(2), 44 p. 1949. 99.9 F493  
English summary.

36392 JAHN, E. Das lichtmeszgerät als hilfsmittel des forstwirtschafts. Forstwirtschaft. Holzwirt. 4:287. Sept.1/15, 1950. 99.8 F7793

36393 KACHINSKII, N. A., and VADIUNINA, A. F. Silvicultural and soil improving conditions of the route of the State tree belt, Kamyshtn- Stalingrad. (In Russian.) Pochvovedenie 1950:599-622. Oct.1950. 57.8 P34

36394 KOPP. Theorie und praxis im walde. Allg. Forstz. 6:54-55. Jan.31,1951. 99.8 AL52

36395 LESSEL. Wachstumsuntersuchungen beim Bergahorn. Forst u. Holz 5:387-388. Dec.15,1950. 99.8 F7724

36396 LITTLE, S., JR. Ecology and silviculture of whitecedar and associated hardwoods in southern New Jersey. Yale U. Sch. Forestry. B. 56,103 p. Ref. 1950. 99.9 Y1B

Chamaecyparis thyoides.

36397 MARCKWORTH, G. D. Fundamental research in the growth of trees and stands at the College of Forestry. Wash. U. Forest Club Q. 24:3-7. 1950/51. 99.9 W275Q

36398 RAUSCH, H. Erkenntnisse der buchenmast 1948 / vollverjüngung auf plänerkalk. Forst u. Holz 6:24-25. Jan.15,1951. 99.8 F7724

36399 RETTIG, E. C. Growing a new forest in the Idaho white pine region. West. Forestry & Conserv. Assoc. Proc. 41:29-30. 1950. 99.9 W522

36400 SAVIN, F. E. How we worked during the spring of 1950. (In Russian.) Lesn. Khoz. 3(7):82-83. July 1950. 99.8 L5622  
Silvicultural work at Baranov forest establishment.

36401 STERN, K. Ein wenig erforschter faktor der wurzelkonkurrenz. Forstwirtschaft. Holzwirt. 4:218-221. July 15,1950. 99.8 F7793

36402 TULSTRUP, N. P. Provenance experiments with European larch. (In Danish.) Dansk Skovfor. Tidsskr. 35:609-625. Dec.1950. 99.8 D23

36403 U. S. FOREST SERV. PACIFIC NORTHWEST FOREST EXPERIMENT STATION. A guide for forest soil examination in the Douglas-fir region, by R. F. Tarrant. Rev. Portland, Oreg., 1950. 32 p. 1.9622 P2G94

36404 VINE, R. Trees on peat; economic possibility for undeveloped swamps. New Zeal. Farmer 71(24):6-7. Jan.18,1951. 23 N484

36405 WYCKOFF, S. N. Research in growing the forest crop. West. Forestry & Conserv. Assoc. Proc. 41:25-26. 1950. 99.9 W522

36406 ZAITSEV, B. D. On regenerating the northern oak groves. (In Russian.) Lesn. Khoz. 3(7):31-35. July 1950. 99.8 L5622

Study of soil conditions mainly.

36407 ZÜHLKE, S. Stellenabbau und waldbau. Deut. Forstmann, p.73-74. In Forst u. Holz 5. Dec.1,1950. 99.8 F7724

#### Silvicultural Practices

36408 BRIGHTEN, C. W. Cricket bat willow [Salix alba coerulea] culture. Q. J. Forestry 45:30-35. Jan. 1951. 99.8 Q2

36409 DALENE, H. From random cutting to silviculture. (In Norwegian.) Tidsskr. f. Skogbruk 58:241-244. Sept.1950. 99.8 T432

36410 DU VIGNAUX. La culture du peuplier. Action Forest. et Piscicole 160:1-3. Jan.1951. 99.8 Ac8

36411 FRITZ, E. Some principles governing the growing of redwood crops. West. Forestry & Conserv. Assoc. Proc. 41:23-25. 1950. 99.9 W522

36412 GÜNTHER, H. Die pflege der pappel. Forstwirtschaft. Holzwirt. 4:271-273. Sept.1/15,1950. 99.8 F7793

36413 HELLINGA, G. Pruning of trees by debudding. (In Dutch.) Tectona 40:371-373. Dec.1950. 99.8 B65

36414 HUMMEL, F. C. The silviculture of mixtures in the forests of Salem, Zell and Mengen. Q. J. Forestry 45:23-29. Jan.1951. 99.8 Q2

36415 JAMES, N. D. G. Forestry for estate woodlands. 2. Silvicultural systems. Wood [London] 16(2):52-55. Feb.1951. 99.82 W855

36416 LABRIEGO, C. El cultivo de la mimbrera. Chacra 21(240):68-69. Nov.1950. 9 C34

36417 LEROY, R. La possibilité mixte dans les futaies jardinées. Soc. Forest. de Franche-Comté et des Prov. de l'Est. B. Trimes. 25:657-671. Dec.1950. 99.9 So14

36418 LOERA BORJA, A. Fundamento técnico y aplicación del por ciento de intensidad de corta en relación con los métodos silvícolas que se observan en México. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3:68-71. 1950. 99.9 C7622

36419 LONČAR, I. The transformation of the clear-oak-woods in the mixed ones. (In Croatian.) Sumarski List 74:441-446. Nov.1950. 99.8 Su6  
English summary.

Transformation of pure oak stands into mixed forest.

36420 MEADE, F. M. Care of pine stands in South Arkansas. Ark. Agr. 28(5):12-13. Jan.1951. 276.8 Ar42

36421 MITTSCHERLICH. Mellioration und forstdüngung. Forstwirtschaft. Holzwirt. 4:265-268. Sept.1/15,1950. 99.8 F7793

36422 MIX. Darf der nachwuchs noch hoffen? Deut. Forstmann, p.1-2,5-7. (Cont.) In Forst u. Holz 6. Jan.1-15,1951. 99.8 F7724

36423 MÜLLER, R. Der sinn des pappelmarkenetiketts. Allg. Forstz. 6:77-79. Feb.14,1951. 99.8 AL52



- 36424 PLATZER, H. B. Ein neues aufstungsgerat. Holz-Zentbl. 76:1602. Nov.28,1950. 99.81 H742
- 36425 RAVE. Ungleichaltriger mischwald? Forst u. Holz 5:365-367. Dec.1,1950. 99.8 F7724
- 36426 RUDOLF, P. O. Chemical control of brush and tree growth for the Lake States. U. S. Forest Serv. Lake States Forest Expt. Sta. Misc. Rpt. 15,30 p. Jan.1951. 1.9622 L2M68
- 36427 SARVAS, R. Siemenpuuhakkuu männikön uudis-tushakkuuna etelä-Suomessa. Seed-tree cutting as a re-generation method in Scots pine forests of southern Finland. Finland. Metsätieteellisen Tutkimuslaitoksen. Jul-kaisu. 37(6),43 p. Ref. 1949. 99.9 F493  
English summary.
- 36429 U. S. FOREST SERV. PACIFIC NORTHWEST FOREST EXPERIMENT STATION. Financial aspects of pruning, by E. W. Shaw and G. R. Staebler. Portland, 1950. 45 p. Ref. 1.9622 P2F49
- 36429 WOHLFARTH. Und noch einmal: "Naturnahe waldwirtschaft?" Holz-Zentbl. 76:1625-1626. Dec.2, 1950. 99.81 H742  
With a note by Dr. Dieterich.
- Seeding and Planting
- 36430 ACHTERBERG, H. H. Die prüfung des forst-lichen saatgutes. Forstwirt. Holzwirt. 4:216-218. July 15,1950. 99.8 F7793
- 36431 AKAMINE, E. K. Viability of Hawaiian forest tree seeds in storage at various temperatures and relative humidities. Pacific Sci. 5:36-46. Ref. Jan.1951. 475 P11
- 36432 ALLEN, R. M., and MAKI, T. E. Foliage treatments reduce early mortality of longleaf pine planted on adverse sites. J. Forestry 49:115. Feb.1951. 99.8 F768
- 36433 DERIABIN, D. I. Experiment in spring trans-portion of acorns by water. (In Russian.) Lesn. Khoz. 3(7):21-24. July 1950. 99.8 L5622
- 36434 DRAZHEVSKIY. We shall grow first class planting stock. (In Russian.) Lesn. Khoz. 3(7):74. July 1950. 99.8 L5622  
Iziaslav forestry establishment.
- 36435 EICK, E. Ergebnisse bei wirkstoffbehandlun-gen des fichtensamens. Forst u. Holz 5:384-386. Dec.15, 1950. 99.8 F7724
- 36436 ESTEVES, I. Plantaciones de coníferas con arbolitos silvestres. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3:118. 1950. 99.9 C7622
- 36437 FRITZ, E. Spot-wise seeding for redwood [Sequoia sempervirens]; artificial reforestation by seed-ing or planting necessary on cutover land devoid of seed trees. Calif. Agr. [Calif. Sta.] 4(12):5,13. Dec.1950. 100 C12Cag
- 36439 GLUTSKIY, I. I. Summer transplanting of seedlings [in forest nursery]. (In Russian.) Lesn. Khoz. 3(7):75-77. July 1950. 99.8 L5622
- 36439 HELLINGA, G. Forest tree species for plant-ing on a large scale. (In Dutch.) Tectona 40:179-229. Ref. Dec.1950. 99.8 B65  
English summary.
- 36440 ISAAC, L. A. Seed crop prospects for 1951. U. S. Forest Serv. Pacific Nowest. Forest & Range Expt. Sta. Res. Note 73,2 p. Dec.1950. 1.9 F7629Fr  
Pseudotsuga taxifolia.
- 36441 KHARLAMOV, G. I. On the quality of tree seeds. (In Russian.) Lesn. Khoz. 3(7):9-12. July 1950. 99.8 L5622
- 36442 KLEBE, H. Herbstpflanzung unter verwendung von kiefern-sämlingen aus anflug. Forstwirt. Holzwirt. 4: 256. Aug.15,1950. 99.8 F7793
- 36443 LASSCHUIT, J. A. Stimulating Pinus merkusii to form adventive roots. (In Dutch.) Tectona 40:319-322. Dec.1950. 99.8 B65  
English summary.
- 36444 LI, L. Y., LI, C. S., and YANG, N. C. The natural reproduction of some important forest species in Fukien. (In Chinese.) Fukien Agr. J. 11:169-177. June 1950. 22.5 F95  
English summary.
- 36445 MESHCHERIN, I. A. Experiment in summer supplementary planting of forest crops. (In Russian.) Lesn. Khoz. 3(7):77-78. July 1950. 99.8 L5622
- 36446 NAVARRO GARNICA, M. Repoblaciones en zonas secas. Montes 36:721-724. (To be cont.) Nov./Dec.1950. 99.8 M763
- 36447 NEWTON, R. W. B. Afforestation of unre-stored land. Q. J. Forestry 45:38-41. Jan.1951. 99.8 Q2
- 36448 ØGLAEND, I. Forest planting. (In Norwegian.) Skogbrukeren 26:22-24. Feb.1,1951. 99.8 Sk54
- 36449 PETROV, G. On artificial forest reproduction. (In Russian.) Lesn. Khoz. 3(7):85. July 1950. 99.8 L5622  
Reforestation in Leningrad Region.
- 36450 PHILLIPS, J. M. Planting trees for posterity and wildlife. Pa. Game News 21(12):10-15. Mar.1951. 412.9 P38Pe
- 36451 PICCAROLO, G. Poplar planting. (In Italian.) Italia Forest. e Mont. 5:214-219. Nov./Dec.1950. 99.8 It12  
English summary.
- 36452 ROBAK, H. The provenance problem and breeding of forest trees. (In Norwegian.) Tidsskr. f. Skogbruk 58:236-240. Sept.1950. 99.8 T432
- 36453 SABROE, A. S. Have we been too orthodox in the planting of our cultures? (In Danish.) Dansk Skovfor. Tidsskr. 35:578-596. Nov.1950. 99.8 D23  
Includes discussion.
- 36454 SCHROEDER, G. H. Helicopter seeding speeds reforestation. Paper Indus. 32:1175-1177. Feb.1951. 302.8 P1923
- 36455 SCHWAB, F. Harvesting and kiln drying of dammar seeds. (In Dutch.) Tectona 40:323-328. Dec. 1950. 99.8 B65  
Dipterocarpaceae.
- 36456 SEVEROVA, A. I. Rooting of Pinus stem cut-tings in relation to age of maternal plant. (In Russian.) Akad. Nauk SSSR. Dok. 74:845-846. Oct.1,1950. 511 P444A
- 36457 SHARAFUTDINOV. Planting of Quercus in plots. (In Russian.) Lesn. Khoz. 3(7):84. July 1950. 99.8 L5622
- 36458 SHISHKOV, I. I. Fir [Abies] seed trees in clearcutting areas. (In Russian.) Lesn. Khoz. 3(7):61-62. July 1950. 99.8 L5622  
For natural reproduction.
- 36459 SIDORENKO, A. T. Summer planting of pine seeds. (In Russian.) Lesn. Khoz. 3(7):79. July 1950. 99.8 L5622
- 36460 SLOVTSOV, A. M. On organizing forest seed establishments. (In Russian.) Lesn. Khoz. 3(7):13-16. July 1950. 99.8 L5622
- 36461 STRAND, L. Heredity and environment—sort-ing in plant nurseries. (In Norwegian.) Tidsskr. f. Skog-bruk 58:191-196. July/Aug.1950. 99.8 T432  
Forest trees.
- 36462 TORRICELLI DIAZ, E., and MUÑOZ VENE-GAS, D. Técnica defectuosa como causa de pérdidas en las plantaciones de pino insign. Agrario 15(417):22-25. (Concl.) Oct.1950. 9.3 Ag85
- 36463 VANCE, M. Cypress reforestation program at S. L. L.; seedlings planted in Louisiana swampland. Coastal Cattleman 16(12):38-39. Feb.1951. 43.8 C63
- 36464 VEER, E. J. VAN A. DE, and LUNEL, F. A. V. Germination of Intsia palembanica Miq. and Intsia bijuga O. Ktze. (In Dutch.) Tectona 40:336-345. Dec.1950. 99.8 B65  
English summary.
- 36465 WAGENKNECHT. Die pflanzenenerziehung im kamp. Forstwirt. Holzwirt. 4:243-251. Ref. Aug.15,1950. 99.8 F7793
- 36466 WIJK, C. L. VAN. Afforestation of lalang plains at Muna in combination with mechanical tillage. (In Dutch.) Tectona 40:346-358. Dec.1950. 99.8 B65  
English summary.
- 36467 WOODFORD, E. K., and IVENS, G. W. Chemi-cal methods for the control of weeds in forest nurseries. Forestry Abs. 12:139-143. Ref. Dec.1950. 241.01 Im7
- 36468 ZABOROVSKIY, E. P. We will put forest seed science on a stable scientific foundation. (In Russian.) Lesn. Khoz. 3(7):5-8. July 1950. 99.8 L5622
- 36469 ZHURBIN, A. I. Vegetative approach [grafting] of Populus [alba] and Populus tremula. (In Russian.) Lesn. Khoz. 3(7):86. July 1950. 99.8 L5622
- 36470 ZLATARIC, B. Einige grundprobleme der forstlichen provenienzfragepolitik. (In Croatian.) Šumarski List 74:427-441. Ref. Nov.1950. 99.8 Su6  
German summary.



## Forest Protection and Damage

- 36471 BARRERA, R. Incendios—plagas—pastoreo—explotaciones excesivas. B. Forest. 2(26):18-19. Dec. 1950. 99.8 B633
- 36472 BURGESS, T. H. Protection roads. West. Forestry & Conserv. Assoc. Proc. 41:54. 1950. 99.9 W522
- 36473 CLEARWATER TIMBER PROTECTIVE ASSOCIATION. 1949-1950 annual reports. Orofino, 1950. 62 p. 99.9 C68
- 36474 GOMEZ, L. Las quemaz y la deforestación. Agr. Trop. 7:21-25. Jan. 1951. 26 Ag8 Colombia.
- 36475 MATAGRIN, A. New methods for the protection of timber stocks. II. Fungicides and antiseptics recommended for the protection of timber. Rev. Internatl. du Bois 18(161):18-20. Jan. 1951. 99.8 R326 English and French in parallel columns.
- 36476 PERTTILA, U. Beobachtungen über die pilzschäden in Juksow am oberen lauf des Swir. (In Finnish.) Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonnott ja Pöytäkirjat (1949)4:117-121. Ref. 1950. 410.9 Su7T German summary.
- 36477 RAPPARD, F. W. The agate snail (*Achatina fulica* Fer.), a danger to young teak culture. (In Dutch.) Tectona 40:365-366. Dec. 1950. 99.8 B65
- 36478 REARDEN, J. D., and CHAPMAN, G. L. Porcupine damage in a mixed Scotch and red pine plantation. Maine. U. Forestry Dept. Tech. Note 3,1 p. Nov. 1950. 99.9 M284
- 36479 ROBAK, H. English investigations of root disease [*Fomes annosus*] attacks on fir. (In Norwegian.) Tidsskr. f. Skogbruk 58:168-173. July/Aug. 1950. 99.8 T432
- 36480 RODRIGUEZ MUNOZ M. A., R. Problemas relativos a la protección forestal. Conv. Nac. de Prod. de Maderas de Pino. Mem. (1949)3:56-64. 1950. 99.9 C7622
- 36481 SCHINDLER, U. Die mäusebekämpfung in Nordwestdeutschland anlässlich der massenvermehrung im herbst und winter 1949/50. Forst u. Holz 6:7-9. Ref. Jan. 1, 1951. 99.8 F7724
- 36482 SCHWERDTFEGER, F. Forstschutz als gesamtdeutsche aufgabe. Forstwirt. Holzwirt. 4:263-265. Sept. 1/15, 1950. 99.8 F7793
- 36483 TURCKE. Untersuchungen über das schälschuttmittel "Sinoxyl F." Forst u. Holz 6:21-23. Jan. 15, 1951. 99.8 F7724 Protection from wildlife damage.
- 36484 UKHALIN, M. M. On the work of forest pathologists. (In Russian.) Lesn. Khoz. 3(7):66. July 1950. 99.8 L5622 Forest protection.
- 36485 VAARTAJA, O. *Fomes annosus* killing pine [*Pinus sylvestris*] plants. (In Finnish.) Metsätaloudell. Aikakauslehti 1950:361-362. Nov. 1950. 99.9 F49 English summary.

## Fire

- 36486 ALLOUARD, P. The struggle against forest fires in tropical countries. Rev. Internatl. du Bois 18 (161):13-16. Jan. 1951. 99.8 R326 English and French in parallel columns.
- 36487 COOK, L. F. The 1950 forest fire record. Natl. Parks Mag. 25(104):8-9. Jan./Mar. 1951. 98.69 N21
- 36488 COWAN, C. S. Forest fire record, 1950. West. Forestry & Conserv. Assoc. Proc. 41:31-32. 1950. 99.9 W522
- 36489 CURTIS, A. B. A fire prevention plan for logging operations. West. Forestry & Conserv. Assoc. Proc. 41:36-38. 1950. 99.9 W522
- 36490 DRAKE, G. L. Snags and what to do about them. West. Forestry & Conserv. Assoc. Proc. 41:51-53. 1950. 99.9 W522 Includes discussion. As fire hazards.
- 36491 DUGELAY, A. Du contre-feu. Rev. Forest. Franç. 3:31-37. Jan. 1951. 99.8 R329
- 36492 EVERTS, A. B. Chemical fire extinguishers. West. Forestry & Conserv. Assoc. Proc. 41:45-46. 1950. 99.9 W522
- 36493 GODDEN, F. W. Forest protection and fire weather forecasting on the National Forests. West. Forestry & Conserv. Assoc. Proc. 41:35-36. 1950. 99.9 W522
- 36494 HANNA, R. T. The future of fire weather forecasting. West. Forestry & Conserv. Assoc. Proc. 41:32-33. 1950. 99.9 W522
- 36495 HERION, G. Fire prevention plans for logging operations. West. Forestry & Conserv. Assoc. Proc. 41:38-39. 1950. 99.9 W522
- 36496 HOULLER, E. La défense des forêts contre l'incendie. Bois 68(2):1,3. Jan. 25/30, 1951. 99.82 B632 France.
- 36497 JEFFERS, D. S. Results of studies on slash disposal in Idaho white pine. West. Forestry & Conserv. Assoc. Proc. 41:56-57. 1950. 99.9 W522
- 36498 KELLY, A. W., JR. Record shows fewer forest fires last fall. W. Va. Conserv. 14(11):7-8. Feb. 1951. 279.8 W524
- 36499 LARSON, W. H. Progress report: forest roadside control of alder and willow in Washington. West. Forestry & Conserv. Assoc. Proc. 41:16. 1950. 99.9 W522
- 36500 MCKEE, R. G. Slash problems in British Columbia. West. Forestry & Conserv. Assoc. Proc. 41:54-55. 1950. 99.9 W522
- 36501 MERRILL, A. H. More intensive protection in the redwood region. West. Forestry & Conserv. Assoc. Proc. 41:57-58. 1950. 99.9 W522
- 36502 NAZARENKO, L. I. On fires in the archa forests. (In Russian.) Lesn. Khoz. 3(8):87. Aug. 1950. 99.8 L5622
- 36503 NELSON, D. A State forester's viewpoint. West. Forestry & Conserv. Assoc. Proc. 41:39-40. 1950. 99.9 W522 Forest fire control.
- 36504 ORELL, B. L. Fire weather forecasting in the State of Washington. West. Forestry & Conserv. Assoc. Proc. 41:33-35. 1950. 99.9 W522
- 36505 PHIPPS, D. L. Oregon's proposals for slash disposal. West. Forestry & Conserv. Assoc. Proc. 41:53-54. 1950. 99.9 W522
- 36506 POGUE, R. Much has been done. Mo. Conserv. 12(2):1-3. Feb. 1951. 279.8 M69 Forest fire control.
- 36507 SIMPSON, L. L. Southern Oregon Conservation & Tree Farm Association radio system. Wash. U. Forest Club Q. 24:8-9. 1950/51. 99.9 W275Q
- 36508 SOUTHERN ST. LAWRENCE FOREST PROTECTIVE ASSOCIATION. Thirty-fourth annual report, 1950. Quebec, 1950. 43 p. 99.9 So86 Forest fire protection.
- 36509 SPAULDING, A. E. United States Forest Service views fire protection plans for logging operations. West. Forestry & Conserv. Assoc. Proc. 41:40-41. 1950. 99.9 W522
- 36510 STAUFFER, J. M. Statistics often dodge the facts; complete story of forest fires is disregarded when offhand comparisons are made. Ala. Conserv. 22(6/7):8-9. Dec. 1950/Jan. 1951. 279.8 AL1 Alabama and other southern States.
- 36511 SURDAM, E. Radio in protection communications. West. Forestry & Conserv. Assoc. Proc. 41:41-42. 1950. 99.9 W522
- 36512 VILLENEUVE, G. O. L'inflammabilité des forêts dans la Province de Québec. Forêt et Conserv. 3:34-36, 39-42. Jan. 1951. 99.8 F792
- 36513 WEBSTER, L. T. The use of mobile pumper units in fire suppression. West. Forestry & Conserv. Assoc. Proc. 41:42-44. 1950. 99.9 W522

## Forest Influences

- 36514 DVINIANINOV, M. Field-protecting characteristics of Pinus. (In Russian.) Lesn. Khoz. 3(7):87. July 1950. 99.8 L5622
- 36515 KONSTANTINOV, A. R. Effect of shelterbelts on structure and velocity of the wind. (In Russian.) Akad. Nauk SSSR. Dok. 74:1065-1068. Oct. 21, 1950. 511 P444A
- 36516 RENNER, A. J. Erosion, floods, and reforestation. (In Portuguese.) Orientação Econ. e Financ. 8(89):29. Nov. 1950. 280.8 Or42 Brazil.



- 36517 WEIR, R. The woodman's axe in the borders. *Trees & New Earth* 14:133-135. Winter 1950/51. 99.8 T714  
Relation to rainfall.

#### Miscellaneous Forest Uses

- 36518 HERBERT, P. A. The place of wildlife management in forestry. *Va. Wildlife* 12(3):16-17,22. Mar.1951. 410 V81  
36519 PRAKASH, M. Recreational value of forests. *Trees & New Earth* 14:140-142. Winter 1950/51. 99.8 T714  
36520 SCHAEFFER, L. L'aménagement esthétique et récréatif des forêts. *Rev. Forest. Franç.* 3:20-30. Ref. Jan.1951. 99.8 R329  
36521 WATTS, L. F. Forests and wildlife. Washington, U. S. Forest Serv., 1950. 4 p. 1.962 A2W34  
Address at meeting of the Southeastern Association of Game and Fish Commissioners, Richmond, Oct. 16, 1950.

#### FOREST INDUSTRIES

- 36522 BEYER, F. Diskriminierung der forstwirtschaft? *Holz-Zentbl.* 76:1611-1612. Nov.30,1950. 99.81 H742  
Prices.  
36523 CONVENCION NACIONAL DE PRODUCTORES DE MADERAS DE PINO. Memoria, tercera convención, del 8 al 10 de diciembre de 1949. Chihuahua, 1950. 144 p. 99.9 C7622  
36524 DUBRET, R. La leçon des ventes. *Bois et Scieries* 56:1127,1129,1131. (Concl.) Dec.7,1950. 99.81 B632  
36525 DUBRET, R. Sons de cloche; le point de vue du negoce. *Bois et Scieries* 57:77-79. Jan.25,1951. 99.81 B632  
France.  
36526 FORTUNET, P. Analyse théorique et caractéristiques économiques du marché du bois en France. *Rev. du Bois* 6:19-21. Jan.1951. 99.82 R32  
36527 FRIEDRICH, W. Das studium für technische holzkaufleute. *Holz-Zentbl.* 76:1642. Dec.5,1950. 99.81 H742  
36528 FULLERTON, A. W. Forest publicity down East. *Timber Canada* 11(7):30-31. Mar.1951. 99.81 T487  
Forest industries.  
36529 GONZÁLEZ MÚZQUIZ, M. Objetivos de la Asociación Nacional de Productores de Maderas de Pino. *Conv. Nac. de Prod. de Maderas de Pino. Mem.* (1949)3:9. 1950. 99.9 C7622  
36530 GORUP, FRIEDRICH VON. Echter markt und pretsfreiheit. *Holz-Zentbl.* 76:1586. Nov.25,1950. 99.81 H742  
36531 HEINRICHS, W. Sorgen im nordischen geschäft. *Holz-Zentbl.* 76:1611. Nov.30,1950. 99.81 H742  
Trade.  
36532 LATHAM, B. A historical survey of the timber trade. 2. The great fire and after. *Wood* [London] 16(2):61-63. Feb.1951. 99.82 W855  
36533 LECLÈRE, A. Dans les ventes de coupes domaniales; les conditions dans lesquelles la caution peut être déchargée de son obligation. *Bois* 68(2):1,3. (Cont.) Jan.25/30,1951. 99.82 B632  
France.  
36534 THE LUMBERMAN'S handbook and directory of the Western forest industries, 1951. Seattle, 1950. 351 p. 22.5 W524  
36535 MORAND, J. Le bois et ses problèmes. *Bois et Scieries* 57:59. Jan.18,1951. 99.81 B632  
France.  
36536 RAZOUS, P. Les débouchés des exploitations forestières françaises. *Bois et Scieries* 57:55,57-58. (Cont.) Jan.18,1951. 99.81 B632  
36537 ROSS, W. News of lumbermen's educational classes. *Brit. Columbia Lumberman* 35(2):58,126,128. Feb.1951. 99.81 B77  
36538 SÁENZ DOZAL, J. Informe de las actividades desarrolladas por la Asociación Nacional, desde su fundacion hasta la fecha. *Conv. Nac. de Prod. de Maderas de Pino. Mem.* (1949)3:11-12. 1950. 99.9 C7622  
Asociacion Nacional de Productores de Madera de Pino.  
36539 SCHWARTZ, H. S. The lumber industry of the Pacific Coast. *Fed. Reserve Bank San Francisco. Mon. Rev.* 1950(sup.),25 p. Dec.1950. 284.8 F31S

- 36540 SUTLIVE, K. Forest production makes possible Savannah's largest industrial plant. *Forest Farmer* 10(4):6. Jan.1951. 99.8 F7692

36541 THE TIMBER trades directory, 15. London, 1950. 778 p. 300.8 T48

- 36542 WEST COAST LUMBERMEN'S ASSOCIATION. Where to buy the four fine woods: Douglas fir, West Coast hemlock, Sitka spruce, Western red cedar. Portland, Oreg., 1951. 38 p. 225 W525  
Pseudotsuga taxifolia, Tsuga heterophylla, Picea sit-chensis, and Thuja plicata.

#### Lumbering

- 36543 ALLOUARD, P. La mécanisation des exploitations forestières sur La Côte Occidentale d'Afrique. Marseille. Inst. Colon. Cahiers Colon. 1950:417-420. Dec.1950. 286.8 M35  
36544 BROWN, J. A. Hauling accidents. *Thunder Bay Timber Oper. Assoc. Log Book* 2(5):13,21. Jan./Feb. 1951. 99.9 T42  
36545 HASLUND, O. Efficient rules for cutting, marketing and transportation of wooden materials from our forests. (In Norwegian.) *Skogbruken* 25:289-290. Dec. 1950. 99.8 Sk54

#### Lumbering Equipment

- 36546 BLINK, G. C. VAN DEN. Tractors in forest exploitation. (In Dutch.) *Tectona* 40:259-318. Ref. Dec. 1950. 99.8 B65  
36547 KALBHENN. Der motorisierte rückkarren in der praxis. *Tech. f. Bauern u. Gärt. Ausg. A* 2:531-532. Sept.25,1950. 58.8 T223  
Transportation of wood.  
36548 KIRKUP, A., JR. Bark peeling machines. *Q. J. Forestry* 45:36-38. Jan.1951. 99.8 Q2  
36549 LAMOTHE, G. E. Mécanisation forestière. *Forêt et Conserv.* 3:7-11. (Concl.) Jan.1951. 99.8 F792  
36550 MCLAREN, C. G., and BURG, M. P. Portable chipper in woods operation. *Fibre Containers* 36(2): 48,53. Feb.1951. 286.8 F44  
36551 SAXHAUG, J. On forest worker's tools and their care. (In Norwegian.) *Landbrukstidende* 56:967-969,995. (To be cont.) Dec.6-13,1950. 11 L236

#### Logging

- 36552 ALLEN, J. W. How close can logging leftovers be utilized? *J. Forestry* 49:104-106. Feb.1951. 99.8 F768  
36553 BERTRAND, J. P. The first logging operation in Thunder Bay. *Thunder Bay Timber Oper. Assoc. Log Book* 2(5):14-20. Jan./Feb.1951. 99.9 T42  
36554 CHASOVNIKOV, A., and NIKITIN, A. Lesnoi konvefer [Assembly line method in logging]. *Kostroma, Kostromskoe Obl. Izd-vo*, 1950. 37 p. 99.76 C38  
36555 EASTMAN, W. A., JR. Logging in the Banana Belt. *Wash. U. Forest Club Q.* 24:10-15. 1950/51. 99.9 W275Q  
36556 FRONIUS, H. Neue wege der holzbringung — nach Ostkarpathenart. *Holz-Zentbl.* 76:1673-1674. Dec.9,1950. 99.81 H742  
36557 HOLT, L. Cutting methods in pulpwood operations of eastern Canada. *Woodlands Res. Index* 84,58 p. Ref. Dec.1950. 99.8 W855A  
36558 MANARY, G. L. Harvesting the forest crop in the California redwood region. *West. Forestry & Conserv. Assoc. Proc.* 41:67-68. 1950. 99.9 W522  
36559 PLATZER, H. B. Die durchschnittliche rückeentfernung. *Forst u. Holz* 6:19-21. Jan.15,1951. 99.8 F7724  
36560 RANDALL, A. G. Cost of selective marking for pulpwood. *Maine. U. Forestry Dept. Tech. Note* 5, 2 p. Nov.1950. 99.9 M284  
36561 RANDALL, A. G. Pulpwood marking rules. *Maine. U. Forestry Dept. Tech. Note* 4,2 p. Nov.1950. 99.9 M284  
36562 THOMSON, R. W. B. Sloop hauling in relation to forest management. *Thunder Bay Timber Oper. Assoc. Log Book* 2(5):4,20. Jan./Feb.1951. 99.9 T42  
36563 WISEMAN, C. Bucking hazards. *Brit. Columbia Lumberman* 35(2):60. Feb.1951. 99.81 B77



Sawmills

36564 CARPENTER, R. D. Volume of heavy waste at southern pine sawmills. *South. Lumberman* 182(2277):62, 64. Feb.15,1951. 99.81 So82  
For pulp chips.

36565 HAFNER, R. Schäden in sägewerks-wasser-kraftanlagen durch erosion. *Holz-Zentbl.* 76:1623-1624. Dec.2,1950. 99.81 H742

36566 HASSELT, W. 'Um einen gerechten gatterak-kord. *Holz-Zentbl.* 76:1616. Nov.30,1950. 99.81 H742

36567 HORDERN, R. H. Sawmilling practice. 2. Reciprocating saws. *Wood [London]* 16(2):69-71. Feb. 1951. 99.82 W855

36568 KENNEDY, W. B. Time and labor-saving kinks. *South. Lumberman* 182(2277):66,68. Feb.15,1951. 99.81 So82  
In sawmills.

36569 PAETZ, F. Neuzeitliche vollgatterantriebe. *Holz-Zentbl.* 76:1683. Dec.12,1950. 99.81 H742

36570 PETROV, M. N. Recherches en vue d'établir des possibilités d'augmenter la production du travail dans deux scieries. (In Bulgarian.) *Bulgaria. Min. na Zemedel. i Gorite. Nauch.-izsled. Inst. Spis.* 18(1):153-178. Ref. 1950. 106.3 R32  
French summary.

36571 PILLER, J. Kritische betrachtungen über die wirtschaftlichkeit von sägegattern. *Holz* 5:4-5. Jan. 1951. 99.82 H743

36572 ZIMMERMANN. Schärfeanleitung für waldsägen mit dreiecksgruppenbezeichnung. *Forst u. Holz* 6:6-7. Jan.1,1951. 99.8 F7724

Processing and Woodworking

36573 DESLANDES, F. Installation des machines à bois. *Monit. de la Mécan. Rur.* 43:393-395,397. Dec.1950. 58.8 M74

36574 HYLER, J. E. Holding work for machining. *South. Lumberman* 182(2277):70,72. Feb.15,1951. 99.81 So82

36575 HYLER, J. E. Technique in wood joinery. 9. How to layout and join mouldings in end-to-end wood joinery. *Natl. Hardwood Mag.* 25(2):32-33,41. Mar.1951. 99.81 N212

36576 HYLER, J. E. Woodworking knife and cutter application. XII. *South. Lumberman* 182(2277):58,60,62. Feb.15,1951. 99.81 So82

Seasoning, Conditioning and Finishing

36577 ARMSTRONG, W. N. B., and others. Staining of Canadian hardwoods. *Chem. Canada* 3(2):41-42. Feb. 1951. 381 C4236

R. H. Lyons, L. C. Roulston, and J. R. Turner, joint authors.

36578 BEDE, J. A. Hot spraying of lacquer. *Wood Working Digest* 53(3):107-108,110,112,114,116,118. Mar. 1951. 99.82 W87

36579 CONRAD, G. A. Wrinkle finish on wood. *Canad. Woodworker* 51:37,58. Jan.1951. 99.82 C162

36580 DÉRIBÉRE, M. Le séchage par rayonnement infra rouge dans l'industrie du bois. *Rev. du Bois* 6:24. Jan.1951. 99.82 R32

36581 DEVINE, J. Solutions of wet and dry bulb variations in kiln drying operations. *Natl. Hardwood Mag.* 25(2):40,66. Mar.1951. 99.81 N212

36582 KEGEL, K. Die anwendungsmöglichkeiten der dielektrischen trocknung mit hochfrequenz in der holz- und papierindustrie. *Papier* 4:405-410. Nov.30,1950. 302.8 P1934

36583 LEYVA A., M. Importancia del secado de las maderas, sus cuidados y ventajas. *Conv. Nac. de Prod. de Maderas de Pino. Mem.* (1949):3:78-79. 1950. 99.9 C7622

36584 TIEMANN, H. D. The kiln-drying of lumber. 26. *South. Lumberman* 182(2277):50. Feb.15,1951. 99.81 So82

36585 TORGESON, O. W., and SMITH, H. S. Furnace-type lumber dry kiln. *Wood Working Digest* 53(3):43-48, 50,52,54,56. (To be cont.) Mar.1951. 99.82 W87

Wood Preservation and Damage

36586 BARKER, W. J., and others. Longer life for fence posts. *Clemson Agr. Col. S. C. Ext. C.* 262,rev., 15 p. Nov.1950. 275.29 So8E

G. H. Stewart, W. C. Nettles, and G. H. Dunkelberg, joint authors.

36587 BURGOYNE, J. H., and RICHARDSON, J. F. Influence of zinc chloride on the ignition of Scotch pine and its charcoal. *Fuel* 30:13-16. Jan.1951. 401.8 F95

36588 GADD, W. E. Paintable pressure-treated lumber. *South. Lumberman* 182(2278):40,42. Mar.1,1951. 99.81 So82

36589 HAMMOND, J. G. Woodwork preservation. *Wood Working Digest* 53(3):73-76. Mar.1951. 99.82 W87

36590 LANGE, P. Occupational hazards and controls in using wood preservatives. *South. Lumberman* 182 (2277):79-81. Feb.15,1951. 99.81 So82

36591 LÖFKEN. Holzschutz in der landwirtschaft— warum, wodurch, wie? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:79-80,119-120. Jan.18-25,1951. 18 L2346

36592 MONTGOMERY, W. L. Duquesne's wood pole program. *Elect. Light & Power* 29(2):76-77,131. Feb. 1951. 335.8 EL243

36593 NOWAK, A. Fortschrittsbericht über holz-konservierung. *Osterr. Gesell. f. Holzforsch. Mitt.* 2: 122-124. Oct.1950. 99.9 Os72

36594 RIETZ, R. C. What are the principal advantages in seasoning lumber? U. S. Forest Serv. Forest Prod. Lab. News & Views This Kiln Drying Business. Rpt. D1769-5,1 p. Aug.1950. 1.9 F761R

36595 ROOSEN, P. De la pénétration des antiseptiques dans le bois. *Inst. Agron. et Sta. de Rech. de Gembloux. B.* 18(1/2):143-163. Ref. 1950. 105.1 G285

English summary.  
During preservation.

36596 TITUS, R. T. Dry rot is an easy enemy to lick; wood-destroying fungi are quickly routed via prevention, treatment. *Sunday Oregonian, Farm, Home, Gard.* 1951: 18. Mar.11,1951. 6 Su7

36597 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on wood preservation. U. S. Forest Serv. Forest Prod. Lab. Rpt. R704,29 p. Nov.1950. 1.9 F761R

36598 VAKIN, A. T. New antiseptics and methods of antiseptic treatment of wood. (In Russian.) *Akad. Nauk SSSR. Vest.* 20(12):62-66. Dec.1950. 511 Ak14V

FOREST PRODUCTS

36599 GT. BRIT. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. FOREST PRODUCTS RESEARCH BOARD. Forest products research, 1948. London,1950. 46 p. 99.9 G796R

36600 HEINRICHS, W. Holz oder surrogat? *Nord-deut. Holzwirt.* 5(2):2. Jan.11,1951. 99.82 N75

36601 MACHER, F. Betrachtungen über die holz-produktion Österreichs im forstwirtschaftsjahr 1949. *Allg. Forstztg.* 62:13-14. Jan.1951. 99.8 AL53

36602 SUSMEL, L. Carbonization and veneer during the Renaissance. (In Italian.) *Italia Forest. e Mont.* 5: 168-172. Sept./Oct.1950. 99.8 It12

French summary.  
36603 THOMSON, A. G. Wider utilisation of British Colonial timbers. 2. *New Commonwealth* 21:257,256. Jan.1951. 280.8 C88

Work of the Forest Products Research Laboratories at Princes Risborough.

36604 TIMBER ENGINEERING CO., WASHINGTON, D. C. Progress through wood research for national defense and industry. Washington,1950. 16 p. 99.77 N482P

Lumber and Rough Products

36605 ADAMS, L. L. Lengthening of cross tie life one way to save labor cost. *Cross Tie B.* 32(2):9-10. Feb.1951. 99.82 C87

36606 AMERICAN WALNUT MANUFACTURERS ASSOCIATION. Walnut yields; a report on walnut dimension, by C. H. White. Chicago,1950. 43 p. 99.76 Am34W

36607 FLORES CALDERÓN, E. Necesidad de operar con maderas clasificadas. *B. Forest.* 2(26):14,20. Dec. 1950. 99.8 B633  
Mexico.

36608 NELSON, L. A. Grading rules in simple, visual form, designed for the convenience of the man on the job. *Timberman* 52(5):110. Mar.1951. 99.81 T484

36609 SAWED and hewn cross tie production in Montana; State's forest land totals 22.3 to 22.5 million acres. *Cross Tie B.* 32(2):26. Feb.1951. 99.82 C87



36610 SHIPLEY, G. B. Conservation by use of pressure treated cross ties by all U. S. roads. Cross Tie B. 32(2):7-8. Feb.1951. 99.82 C87

### Building Construction

36611 DUNLAP, M. E. Condensation control in frame buildings. Brit. Columbia Lumberman 35(2):49-50,96,98. Ref. Feb.1951. 99.81 B77

36612 MASANI, N. J. Simple calculations in the design of forest bridges of stock spans of 15, 20, 30 and 40 feet. IV. Indian Forester 76:467-486. Nov.1950. 99.8 In2

36613 RIBOULET, L. L'escalier en bois. Ed. 4. Paris, S.N.E.E.P., 1950. 105 p. 99.79 R352

36614 SCHOFIELD, W. F. Wood as a structural material. Brit. Columbia Lumberman 35(2):80-81. Feb. 1951. 99.81 B77

36615 U. S. FOREST SERV. FOREST PRODUCT LABORATORY. Reports dealing with aircraft available at the Forest Products Laboratory, Madison 5, Wisconsin. Rev. Madison, 1950. 11 p. 1.962 F6R29

### Veneers, Plywood and Adhesives

36616 BAILEY, N. Veneer and plywood. VI. Wood Working Digest 53:127-128,130,132. Jan.1951. 99.82 W87

36617 CLENDENAN, E. F. Plywood history reveals many interesting trends. Canad. Woodworker 51:42-43, 62,71. Jan.1951. 99.82 C162

36618 HYLER, J. E. Hot pressed plywood. III. South. Lumberman 182(2278):51-54. Mar.1,1951. 99.81 So82

36619 LACEY, P. M. C., and HOWE, H. A. Radio-frequency glue-setting. Wood [London] 16(2):56-58. Feb.1951. 99.82 W855

36620 MCCORMACK, P. H. Polyvinyl glues for woodworking. South. Lumberman 182(2278):56. Mar.1, 1951. 99.81 So82

36621 MACDONALD, M. D. Compression of Douglas fir veneer during pressing. II. Timberman 52(5):86,88, 90,92. Ref. Mar.1951. 99.81 T484

36622 PERRY, T. D. Banding cores and plywood tops. Wood Prod. 56(2):29-33. Feb.1951. 99.82 W856

36623 PERRY, T. D. Gluing technique for wood. 3. Edge gluing for veneers. Wood Working Digest 53(3):59-61,64,66,68-71. Mar.1951. 99.82 W87

36624 RITCHIE, J. D. Plastic surfaced Douglas fir plywood and uses. Wood Working Digest 53(3):151-154, 156,158,160,162. Mar.1951. 99.82 W87

36625 VORREITER, L. Die tropfenfestigkeit von leimverbindungen. Holz-Zentbl. 76:1613-1614,1616. Nov.30,1950. 99.81 H742

36626 WINLUND, E. S. Generators for end-gluing and edge-gluing. V. Wood [Chicago] 6(3):26,45-47. Mar. 1951. 99.82 W859

### Furniture

36627 CAMPREDON, J. Meubles en bois et meubles en métal; un meuble en bois est imbattable à la condition qu'il soit bien construit. Bois 68(2):1,3. Jan.25/30,1951. 99.82 B632

36628 LETESSIER, A. Principes de construction des meubles et éléments d'architecture décorative en bois. 4. Rev. du Bois 6:12-18. Jan.1951. 99.82 R32

### Containers

36629 INSTITUT NATIONAL DU BOIS. Étude sur l'utilisation de la fibre de bois pour l'emballage. Inst. Nat. du Bois. Étude Tech. 1,10 p. Jan.1950. 99.9 P21E

36630 SAVLER, D. Box men must face tough defense era. Wood [Chicago] 6(3):28. Mar.1951. 99.82 W859

### Pulp and Paper

36631 CAMPBELL, W. B. Mechanics of the grinding process. (Abs.) Paper Trade J. 132(5):26. Feb.2,1951. 302.8 P196

36632 EVERY, D. Review of 1950 in the unbleached kraft paper industry. Paper Trade J. 132(8):58. Feb.23, 1951. 302.8 P196

36633 FRIES, K. W. Semi-chem aspen pulp for specialty papers. Pulp & Paper 25(3):78-79. Mar.1951. 302.8 P11

36634 JAYME, G., and KÖPPEN, A. VON. Strukturelle und chemische Unterschiede zwischen sulfat- und sulfatzellstoffen. Papiert 4:415-420. (Cont.) Nov.30,1950. 302.8 P1934

36635 KEATON, H. L., and GILLESPIE, W. F. Effect of storage of southern pine on pulp yield and quality. South. Pulp & Paper Mfr. 14(2):46-48. Feb.15,1951. 302.8 So8

36636 MARSHALL, H. B. The utilization of waste sulphite liquor; a bibliography of the literature published during 1950. Pulp & Paper Mag. Canada 52(2):61-68. Feb.1951. 302.8 P96

36637 PARSONS, S. R., and LAUSMAN, H. J. Bleaching of neutral sulphite semichemical pulp. Tappi 34(3): 97-102. Ref. Mar.1951. 302.8 T162

36638 PHILBROOK, D. The Sandy Hill Peppy Peeler. (Abs.) Paper Mill News 74(8):122. Feb.24,1951. 302.8 P195

36639 RITCHIE, J. L. Wood pulp supply. Paper Trade J. 132(8):57. Feb.23,1951. 302.8 P196

36640 TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY. 1951 year book. New York, 1951. 291 p. 302 T22

36641 TINKER, E. W. Importance of South's pulp and paper production. South. Pulp & Paper Mfr. 14(2):25-26. Feb.15,1951. 302.8 So8

36642 WORTHAM, R. W., JR. The facts of life. South. Pulp & Paper Mfr. 14(2):28,30. Feb.15,1951. 302.8 So8

Reforestation policy in Southern States for wood pulp.

### Chemical Products and Distillates

36643 ANDERSON, H., and STEEDEN, H. A note on the chemistry of Eucalyptus wood tannins. Soc. Leather Trades' Chem. J. 34:478-480. Dec.1950. 303.9 So12

36644 BATZER, H. Sulfitecelluloseablauge als extraktionshilfsmittel bei der fichtenrindenextraktion. Ledertech. Rundschau 3:8-12. Ref. 1951. 303.8 L49

36645 GRIFFIOEN, K. Carbonization of some Indonesian woods in an electrical laboratory oven. Tectona 40:241-258. Dec.1950. 99.8 B65

36646 LOON, J. VAN, KOOLJ, L. W., and VERMUNT, G. The hydrogenation of conjugated systems particularly of Chinese wood oil. Rec. des Trav. Chim. des Pays-Bas 69:1567-1575. Dec.1950. 385 R24

36647 MINTCHEV, B., and others. Le problème d'utiliser les matières tannantes végétaux du pays. (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis. 18(2):133-176. 1950. 106.3 R32

G. Pojarliev, K. Nicolitchev, and E. Marcov, joint authors.

French summary.

### Naval Stores

36648 BARDYSHEV, I., PIRIATINSKIĬ, A., and BARDYSHEVA, K. Properties and composition of turpentine produced from resin of Pinus sylvestris individual trees. (In Russian.) Akad. Nauk SSSR. Dok. 75:75-77. Ref. Nov.1,1950. 511 P444A

36649 GIACOBBE, A. Economic and technical possibility of the Italian turpentine industry. (In Italian.) Italia Forest. e Mont. 5:220-229. Nov./Dec.1950. 99.8 It12

English summary.

36650 KISSER, J., MAZEK-FIALLA, K., and SERENT-SCHY, W. Untersuchungen über den harzgehalt gehärteter schwarz- und weisskiefernstämmen. Osterr. Gesell. f. Holzforsch. Mitt. 2:117-120. Oct.1950. 99.9 Os72

36651 KRAUS, J. Ein glück, dass sie pech haben. Landwirtschaft 1950:368-369. Dec.1950. 19 L235

Extraction of resin in Austria.

36652 MINTCHEV, B. Possibilités d'obtenir des substances étherées à partir d'essences résineuses. (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis. 18(1):135-152. Ref. 1950. 106.3 R32

French summary.

36653 PATTON, E. L. Research modernizes the gum naval stores industry. Nav. Stores Rev. 60(48):13-14,22-23. Feb.24,1951. 99.81 N22

36654 SCHMIED, H. Die werkzeuge der lärchenharzung. Mitt. der Forstl. Bundes-Versam. Mariabrunn 46:42-46. First/Second Q.1950. 99.8 M69



36655 SHINGLER, G. P. Progress and possibilities; chemical and chemical engineering developments in gum naval stores and a forecast of future possibilities. *Nav. Stores Rev.* 60(48):16,25-28. Ref. Feb.24,1951. 99.81 N22

36656 THEY'RE still called "naval stores"; an ancient industry (turpentine and rosin) is catching up with the times. *Fortune* 43(4):109-113. Apr.1951. 110 F772

36657 VILLA, J. Una nueva industria para los madereros organizados de Chihuahua. *Conv. Nac. de Prod. de Maderas de Pino. Mem.* (1949)3:115-117. 1950. 99.9 C7622

Naval stores.

#### Other Forest Products

36658 ARMSTRONG, F. H. Timber as a flooring material—its relative resistance to wear. *Chem. & Indus.* 1950:854-858. Dec.30,1950. 382 M31C

36659 CAMPREDON, J. La fabrication des panneaux a base de déchets de bois. *Bois* 67(23):1,3. Dec.25/30, 1950. 99.82 B632

36660 COOKE, G. B. Cork, bark of the exotic *Quercus suber*. *Sci. Mon.* 72:169-179. Ref. Mar.1951. 470 Sci23

36661 DODGE, C., SMYTH, H. A., and GUTHRIE, L. R. Burning wood refuse; spreader stoker is success. *Pulp & Paper* 25(3):70,72,74,76. Mar.1951. 302.8 P11

36662 FLEMMING. Aussichtsreiche amerikanische versuche zur verwertung von holzabfällen. *Holz* 5:8-9. Jan.1951. 99.82 H743

36663 GALICIA, D. F. La utilización de las "puntas" y de los pinos jóvenes defectuosos, en el Sur de los EE. UU. *Conv. Nac. de Prod. de Maderas de Pino. Mem.* (1949)3:17-22,24-31. 1950. 99.9 C7622

36664 GILMAN, W. How sweet is your maple? *Nat. Mag.* 44:125-126. Mar.1951. 409.6 N214

36665 GILMAN, W. Maple farming goes modern. *Org. Farmer* 2(7):24-27,54-55. Feb.1951. 57.8 Or3

36666 HEINRICH, K. Verwendung von druckluft bei der herstellung gekrümmter, flächiger sperrholzteile. *Holz* 5:5-6. Jan.1951. 99.82 H743

36667 HOWELLS, T. A., and GOMS, R. H. Redwood plastic pulp for phenolic resin laminates. *Tappi* 34(3):121-125. Mar.1951. 302.8 T162

36668 JUNTA NACIONAL DA CORTIÇA. Relatório dos trabalhos e conta gerência [Report of activities and management accounts] 1949. Lisboa,1950? 31 p. 309.9 J96R

36669 KLAUDITZ, W. Zum stand der forschung und technischen entwicklung auf dem gebiete der herstellung von holzfaser- und holzspanplatten. *Osterr. Gesell. f. Holzforsch. Mitt.* 2:109-117. Oct.1950. 99.9 Os72

36670 LOQUAI, A. Die aussichten auf dem holzspielwarenmarkt. *Holz-Zentbl.* 76:1587. Nov.25,1950. 99.81 H742

36671 MACDONALD, M. D. The utilization of No. 3 Douglas-fir lumber for prefabricated panels. *Oreg. Forest Prod. Lab. Inform. C.* 5,31 p. Oct.1950. 99.9 Or35221

36672 MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Growing Christmas trees in Maryland. College Park,1950. 10 p. 275.2 M36Gr

36673 ROMERO ROBLES, L. Recuperación de los desperdicios de la madera por lo que respecta a su transformación física. *Conv. Nac. de Prod. de Maderas de Pino. Mem.* (1949)3:74-77. 1950. 99.9 C7622

36674 URQUHART, R. Waste not, want not. *Forest & Outdoors* 47(3):10-12. Mar.1951. 99.8 C16

36675 VIEIRA NATIVIDADE, J. Subercultura [Cork culture]. Lisboa,Ministério da Economia,Direcção Geral dos Serviços Florestais e Aquícolas,1950. 387 p. Ref. 99.45 V87

36676 VILLASENOR, R. Uso de los desperdicios forestales en la fabricación de horma de madera. *Conv. Nac. de Prod. de Maderas de Pino. Mem.* (1949)3:46-50. Ref. 1950. 99.9 C7622

#### WOOD TECHNOLOGY

36677 AGAR, H. D., MCCARTHY, J. L., and MARKHAM, A. E. Fermentation to ethanol of concentrated calcium, magnesium, and ammonium sulphite waste liquors. I-II. *Tappi* 34(3):126-140. Ref. Mar.1951. 302.8 T162

I, by H. D. Agar and J. L. McCarthy; II, by A. E. Markham, H. D. Agar, and J. L. McCarthy.

36678 AUSTRALIA. COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION. DIV. OF FOREST PRODUCTS. Chemical reactions, molecular weight and constitution of eucalypt lignin. Progress report no. 10. Isolation, by D. E. Bland. South Melbourne, 1950. 7 p. (Sub-Proj. C.6-2) 99.79 Au7L

36679 AUSTRALIA. COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION. DIV. OF FOREST PRODUCTS. Electrical moisture meters. Progress report,pt.46,8 p. South Melbourne,1950. (Its Sub-project T.P.3-1) 300 Au7E

Species corrections for some indigenous and exotic species for use with resistance type electrical moisture meters, by E. H. Barnard-Brown, and R. S. T. Kingston.

36680 BAILEY, N. Know your wood: red and sweet gum. *Wood Working Digest* 53(3):89-92. Mar.1951. 99.82 W87

Liquidambar styraciflua.

36681 EVANS, D. How research aids utilization of timber. *So. African Timber Trades' J.* 5(2):10-11. Nov. 1950. 99.8 So82

36682 EVERS, H. Zur frage der organisation eines zentralen literaturdienstes auf dem gebiet der chemischen technologie mit besonderer berücksichtigung der chemie und technologie des holzes. *Forstwirt. Holzwirt.* 4:228-231. Ref. Aug.1,1950. 99.8 F7793

36683 IVANOV, V. I. Plant tissue—important raw material source of organic substances. (In Russian.) *Akad. Nauk SSSR. Vest.* 20(11):83-92. Nov.1950. 511 Ak14V

Cellulose and lignin research.

36684 LAMB, G. N. Foreign woods; origin, use, properties and nomenclature. *Wood Prod.* 56(2):24-25. Feb.1951. 99.82 W856

36685 MITCHELL, R. L., and RITTER, G. J. Galactan in western larch wood. *J. Forestry* 49:112-114. Feb. 1951. 99.8 F768

36686 NORD, F. F., and SCHUBERT, W. J. Enzymatic studies on cellulose, lignin and the mechanism of lignification. *Holzforschung* 5:1-9. Ref. 1951. 99.8 H74

36687 SORETZ, S. Werkmässige zerstörungsfreie holzprüfung. *Osterr. Gesell. f. Holzforsch. Mitt.* 2:120-122. Oct.1950. 99.9 Os72

36688 WACEK, A. VON, and SCHROTH, D. Über den ligningehalt von hölzern. *Monatsh. f. Chem.* 81:1151-1152. 1940. 384 M74

36689 WACEK, A. VON, and SCHROTH, D. Über die bindung lignin-kohlehydrate. *Papier* 4:410-414. Nov.30, 1950. 302.8 P1934

#### Properties and Structure

36690 BOYD, J. D. Tree growth stresses. I,III. *Austral. J. Sci. Res. Ser. B: Biol. Sci.* 3:270-309. Ref. Aug.1950. 442.8 Au72

I, Growth stresses evaluation, p. 270-293; III, The origin of growth stresses, p. 294-309.

36691 BRYANT, B. S. The significance of specific gravity distribution with respect to tree form. *Wash. U. Forest Club Q.* 24:13-24. Ref. 1950/51. 99.9 W275Q

36692 BUTTNER, E. E. Hygroscopic behaviour of fibre board. *So. African Timber Trades' J.* 5(2):6-7. Nov.1950. 99.8 So82

36693 HITCHMAN, J. C., and JOHNSON, A. The density of wood. *Thunder Bay Timber Oper. Assoc. Log Book* 2(5):8. Jan./Feb.1951. 99.9 T42

36694 PARRA R., A. Determinación del contenido de la humedad en la madera. *Conv. Nac. de Prod. de Maderas de Pino. Mem.* (1949)3:51-53. 1950. 99.9 C7622

36695 RELATIVE working properties of American gum, red and sap. *Natl. Hardwood Mag.* 25(2):39,66. Mar.1951. 99.81 N212

Liquidambar styraciflua.

36696 SAKORNBUT, S. S. Differentiation of woods of southern pines by chemical means. *J. Forestry* 49:109-111. Feb.1951. 99.8 F768

36697 SWAMY, S. K. Fiberboard properties. *Wood [Chicago]* 6(3):20-21,47. (To be cont.) Mar.1951. 99.82 W859



## ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

## BREEDS AND BREEDING

36693 EFFECTIVENESS of selection. A symposium presented at the 1949 meeting of the American Society of Animal Production. *J. Anim. Sci.* 10:3-21. Ref. Feb. 1951. 49 J82

Introduction, by W. A. Craft; In laboratory animals, by A. B. Chapman; For economically important characters in swine, by C. F. Sierk and L. M. Winters; For economic characters in swine, by G. E. Dickerson; For economically important traits of sheep, by C. E. Terrill; Summary, by J. L. Lush.

36695 HAGEDOORN, A. L. Genetics in Australian agriculture. *Austral. Inst. Agr. Sci. J.* 16:124-129. Dec. 1950. 23 Au74

Animal and plant breeding.

36700 HANCOCK, J. L. A staining technique for the study of temperature-shock in semen. *Nature [London]* 167:323-324. Feb. 24, 1951. 472 N21

36701 HAZEL, L. N., and LUSH, J. L. Computing inbreeding and relationship coefficients from punched cards. *J. Hered.* 41:301-306. Nov. 1950. 442.8 Am3

Primarily for livestock.

36702 KORKMAN, N. Estimation of the breeding value of farm animals. (In Swedish.) *Lantbrakad. Tidskr.* 89:377-397. Ref. 1950. 104 Sw3

English summary.

36703 MOLDENHAUER. Tierzucht auf neuen wegen. *Tierzucht* 3:33-34. May 1950. 49 T443

36704 OUELLET, A. L'activité de la Société des Eleveurs d'Animaux de Race du Québec en 1950. *Digeste de l'Eleveur* 5(5):20-22. Jan. 1951. 49 D56

36705 POUŠKA, F. Breeding problems concerning the production of animal proteins. (In Czech.) *Casopis Českoslov. Vet.* 5:455-458. Oct. 10, 1950. 41.8 C27

36706 RENDEL, J. M., and ROBERTSON, A. Genetic variability and artificial insemination. *Nature [London]* 167:320. Feb. 24, 1951. 472 N21

36707 ST-PIERRE, L. N. L'insémination artificielle dans le Québec. *Digeste de l'Eleveur* 5(5):13-15, 32. Jan. 1951. 49 D56

36708 SINGH, S. D. Role of statistics in animal breeding. *Indian Farming* 11:145-147. Apr. 1950. 22 In283

36709 WEHNER, A. Künftige Aufgaben für tierärztliche und tiermedizin. *Tierärztl. Umschau* 6:60-62. Feb. 1951. 41.8 T445

36710 WEIR, J. A. The art and science of animal breeding. *Agr. Inst. Rev.* 5(6):11-13, 42. Nov. 1950. 7 Ag8

## FEEDS AND FEEDING

36711 ARIES, R. S., and others. Molasses in feed. II.-III. *Flour & Feed* 51(9):24;(10):26. Feb.-Mar. 1951. 298.8 F66

36712 AXELSSON, J. The AIV method according to Virtanen. (In Swedish.) *Lantmannen* 35:73-74. Jan. 27, 1951. 11 L234

36713 AXELSSON, J. The minor element requirements of livestock. (In Swedish.) *Lantbrtidskr. f. Dalarna* 1950:173-180. Oct. 1950. 11 L29

36714 AXELSSON, J. Origin of the AIV propaganda. (In Swedish.) *Lantmannen* 35:156, 158. Feb. 24, 1951. 11 L234

36715 BELL, J. M. Low grade wheat as a livestock feed. *Co-op. Consum. [Saskatoon]* 12(12):2. Dec. 8, 1950. 280.28 C7839

36716 BENTIVOGLIO, A. Artificial hay. (In Italian.) *Avvenire Agr.* 59:14-15. Jan. 1951. 16 Av9

Silage.

36717 BERTSCH, M. Beat the weather; grass silage has a number of good points you can't afford to overlook. *Prairie Farmer, Mich. Ed.* 123(5):5, 49. Mar. 3, 1951. 6 P883A

36718 BOSCH, S., and DEIJS, W. B. Losses during preliminary drying, artificial drying and storage of some products. (In Dutch.) *Netherlands. Landbouwlichtingsdienst. Maandbl.* 7:464-473. Nov. 1950. 12 N383M

Forage plants.

36719 BREGANTE, L. J. Problemas sobre nutrición animal. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 354:15, 14; 355:5, 4. Jan. 4-11, 1951. 9.9 G15B

36720 BROUGHTON, A. You save feed costs with good roughage. *Wis. Agr. & Farmer* 78(3):6. Feb. 3, 1951. 6 W751

36721 CARLSSON, C. E. The cobalt supply of the ruminants must be safeguarded. (In Swedish.) *Lantmannen* 35:67-68. Jan. 27, 1951. 11 L234

36722 THE CHEMISTRY of silage. *New Zeal. Dairy Exporter* 26(7):33, 35-36. Jan. 1951. 44.8 N484

36723 COLBY, R. W. Relation of livestock nutrition and health to range forage. *Sheep & Goat Raiser* 31(5):42-44. Feb. 1951. 45.8 Sh3

36724 CRAMPTON, E. Feeding value of light weight wheat. *Family Herald & Wk. Star* 82(5):9, 13. Feb. 1, 1951. 7 F21

36725 DEE, W. E. Silage: a livestock must. *Amer. Tung News* 2(2):8, 14. Feb. 1951. 307.8 Am33

36726 DIJKSTRA, N. D. Effect of artificial drying on the digestibility of grass. (In Dutch.) *Netherlands. Landbouwlichtingsdienst. Maandbl.* 7:473-476. Nov. 1950. 12 N383M

36727 DUMARESCU, J. A. Vitamins in animal nutrition. *Tasmania. Dept. Agr. Tasmanian J. Agr.* 21:333-335. Nov. 1, 1950. 23 T182T

36728 DYER, A. J. The proper balance in feeding minerals. *Mo. Rur.* 92(5):12. Mar. 10, 1951. 6 R8891

36729 EKEROT, N. The hay crop in Blekinge. (In Swedish.) *Blekinge Läns Hushållsk. Tidskr.* 1950:79-81. 11 B61

36730 FOUQUET. Sur les moyens indispensables à la réussite de l'ensilage. (Sum.) *Défense Agr. de la Beauce et du Perche* 48:33-34. Jan. 27, 1951. 14 D36

36731 FRANKENA, H. J. Ensiling with molasses. (In Dutch.) *Drents Landtbl.* 32(3):6. Jan. 20, 1951. 12 D812

Also in *Overijsselsch Landtbl.* 33(1588):6. Jan. 20, 1951. 12 Ov2

36732 FRITZ, J. C. High energy feeds. *Flour & Feed* 51(10):34. Mar. 1951. 298.8 F66

Formulas.

36733 GILLIS, M. B. Calcium and phosphorus. *Flour & Feed* 51(10):24. Mar. 1951. 298.8 F66

In feeds.

36734 GUILBERT, H. R., and LOOSLI, J. K. Comparative nutrition of farm animals. *J. Anim. Sci.* 10:22-41. Ref. Feb. 1951. 49 J82

36735 HAMILTON, T. S. Proteins and amino acids in livestock nutrition. *Feedstuffs* 23(7):20-22, 24, 41-42, 44. Feb. 17, 1951. 286.81 F322

36736 HOLDER, R. Fishery products in feeds. *Flour & Feed* 51(9):30. Feb. 1951. 298.8 F66

36737 HOLLAND, C. A. State, divisional, and district fodder conservation and supplementary forage competitions, 1950. *Tasmania. Dept. Agr. Tasmanian J. Agr.* 21:262-276. Nov. 1, 1950. 23 T182T

Gives details of winning properties in three divisions. 1, Northern Division, by N. A. M. Kjar; 2, Southern Division, by J. T. Gemmell; 3, North-Western Division, by L. H. Radel.

36738 HUISMAN, M. H. Artificial drying of forage crops from arable land. (In Dutch.) *Netherlands. Landbouwlichtingsdienst. Maandbl.* 7:457-464. Nov. 1950. 12 N383M

36739 HUISMAN, M. H. The quality of dried grass, lucerne and red clover, etc., in 1949. (In Dutch.) *Netherlands. Landbouwlichtingsdienst. Maandbl.* 7:477-479. Nov. 1950. 12 N383M

36740 HUISMAN, M. H. Yield and raw protein content of artificially dried lucerne, red clover and grass at Heenvliet, Zierikzee, Scherpenisse and Middelburg. (In Dutch.) *Netherlands. Landbouwlichtingsdienst. Maandbl.* 7:490-494. Nov. 1950. 12 N383M

36741 HUNT, W. J. Cull potatoes produce new livestock feed. *Chemurg. Digest* 10(3):4-6. Mar. 1951. 381 N213Na

36742 HUNTER, J. E. The past two decades mark progress in poultry and animal nutrition. (Excerpts.) *Grain & Feed J. Consolidated* 106(4):23-26. Feb. 28, 1951. 298.8 G762



- 36743 IDVALL, S. The feed value of the 1950 hay. (In Swedish.) Kalmars Låns Norra Hushållssk. Kvartalskr. 10:115-117. 1950. 11 K12
- 36744 JARL, F. On vitamin B<sub>12</sub> and the animal protein factor. (In Swedish.) Våra Palsdjur 22:26-29. Feb. 1, 1951. 410 V42
- 36745 JOHNSTON, C. W. The use of sulphur dioxide in the liquid form for the prevention of the growth of fungus (mold) in silage and hay, the saving of nutritional values now lost in the making of silage and hay and for the treatment of fungus skin diseases. (Abs.) Va. J. Sci. (n.s.) 1:332. Sept. 1950. 470 V81
- 36746 JUKES, T. H., and STOKSTAD, E. L. R. Vitamin B<sub>12</sub> and animal growth. Flour & Feed 51(9):27. Feb. 1951. 298.8 F66
- 36747 JUST, F., and WALTHER, G. Zur frage der brauchbarkeit synthetischer fettsäureamide als futtermittel. Chem. Tech. 2:332-335. Nov. 1950. 384 C4283
- 36748 KATCHADOURIAN, DER. Sur la conservation des fourrages et l'ensilage à l'étranger. (Sum.) Défense Agr. de la Beauce et du Perche 48:32-33. Jan. 27, 1951. 14 D36
- 36749 KELLOGG, J. W. Iodine is a food essential. Flour & Feed 51(9):20. Feb. 1951. 298.8 F66  
In animal nutrition.
- 36750 KHARCHENKO, V. A. How to prepare brown hay. (In Russian.) Sořsialist. Zhivotnovod. 12(9):15-16. Sept. 1950. 49 So71  
Fermented.
- 36751 KREIPE, H. Die fabrikation der futterhefe und ihre grundlagen. Arch. f. Tierernähr. 1:56-64. July/Aug. 1950. 389.78 Ar22
- 36752 KUMMER, H. Inländisches tierkörpermehl, seine beschaffenheit und sein futterwert. Bad. Landwirt. Wchnbl. 118:34-35. Jan. 20, 1951. 18 B142
- 36753 LA BORDE, F. D. Resultats obtenus avec un nouveau système d'ensilage. Rev. Agr. de l'Afrique du Nord 48:942-944. Dec. 22, 1950. 80 R326
- 36754 LARUE, P. Sur l'ensilage des sarments en Espagne. Prog. Agr. et Vitic. 1951:105-106. Feb. 18/25, 1951. 14 P94
- 36755 LEONOVICH, V. V., and POLONSKAIA, M. S. Use of acidophilous [Lactobacillus] cultures in animal industry. (In Russian.) Sořsialist. Zhivotnovod. 12(11):68-70. Nov. 1950. 49 So71
- 36756 LIEBSCHER, W. Eigenschaften und nährwert der futterhefe. Kärntner Bauer 100:463,468. Dec. 20, 1950. 19 K14
- 36757 LOWE, L. T. Animal nutrition. Monmouthshire Inst. Agr. J. 13:5-7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37-55. (Cont.) Winter 1950/51. 10 M75
- 36758 MAINARDI, B. Are minerals necessary in the feed ration? (In Italian.) Humus 6(12):28-29. Dec. 1950. 16 H88
- 36759 MANGOLD, E., and NICKISCH, K. Spitzklettenpressschrot als futtermittel [Xanthium echinatum]. Tierzucht 3:41-44. May 1950. 49 T443
- 36760 MARTIN, J., and REYNOLDS, N. Usefulness of sulfuric acid for making silage. (In Dutch.) Gent. Landhogesch. Meded. 15:424-442. June 1950. 105.1 G344  
English summary.
- 36761 MAYMONE, B., and TIBERIO, M. Researches on the chemical composition, digestibility and nutritive value of some residues of banana cultivation (Musa sapientum L., M. cavendishii Lamb., etc.). (In Italian.) Ann. della Sper. Agr. (n.s.) 5:133-156. 1951. 16 An76  
English summary.
- 36762 MOVSISIANTS, A. P. Better utilization of autumn pastures. (In Russian.) Sořsialist. Zhivotnovod. 12(10):7-11. Oct. 1950. 49 So71  
For livestock feeding.
- 36763 MOXON, A. L., and others. Grass hay at its best as shown by chemical analysis and feeding value. S. Dak. Agr. Expt. Sta. B. 405, 23 p. Jan. 1951. 100 So82  
G. Gastler, G. E. Staples, and R. M. Jordan, joint authors.
- 36764 NEHRING, K., and SCHRAMM, W. Über den futterwert von künstlich getrocknetem grünfutter. Arch. f. Tierernähr. 1:1-21. Ref. July/Aug. 1950. 389.78 Ar22
- 36765 OLIVE, J. P. L'alimentation minérale; facteur important des productions animales. Porc 21(10):24-25. Dec. 1950. 46.8 P822
- 36766 ORTIZ GARMENDIA, J. Sales minerales y forrajes en la alimentación de los animales. Campestino [Santiago] 83:37, 39. Jan. 1951. 9.3 So12
- 36767 PARGUEY. Sur l'ensilage en Eure-et-Loir. Défense Agr. de la Beauce et du Perche 48:29-30. Jan. 27, 1951. 14 D36
- 36768 PEELER, H. T., and others. Studies on the vitamin B<sub>12</sub> content of feedstuffs and other materials. J. Nutr. 43:49-61. Ref. Jan. 10, 1951. 389.8 J82  
H. Yacowitz, C. W. Carlson, R. F. Miller, L. C. Norris, and G. F. Heuser, joint authors.
- 36769 PENNY, W. J. Once depleted land restored to pastures. Tex. Livestock J. 10:9, 28. Jan. 15, 1951. 49 T29
- 36770 PÉRUCHON, J. Les acides aminés dans l'alimentation animale. Marseille, 1950. 13 p. 386.3 P432
- 36771 POLIANSKIĬ, M. Rational utilization of field crop waste products—straw and chaff—important economic problem. New method of preparing straw and chaff for feeding them to livestock. (In Russian.) Konevodstvo 20(9):23-26. Sept. 1950. 42.8 K832
- 36772 POPANDOPULO, P. KH. Forage yeasts—a valuable feed. (In Russian.) Sořsialist. Zhivotnovod. 12(10):12-15. Oct. 1950. 49 So71
- 36773 PRAT, J. DE. Suministro de sal al ganado. Cult. Mod. 33:450. Dec. 1950. 15 C89
- 36774 PREBLUDA, H. S. Nuevos conceptos en la alimentación del ganado. Assoc. Argentina Criadores de Cerdos. Rev. 30(341):13-15, 17-18. Jan. 1951. 46.9 As5
- 36775 REAVES, P. M., and SANDY, R. A. The use of sulphur dioxide for preserving the top layer of silage. (Abs.) Va. J. Sci. (n.s.) 1:330-331. Sept. 1950. 470 V81
- 36776 REK, L. Nutrition and fertility. (In Czech.) Časopis Českoslov. Vet. 5:452-455. Ref. Oct. 10, 1950. 41.8 C27
- 36777 RICHTER, K. Verfütterung von melasse und melasseschnitzeln. Deut. Landwirt.-Gesell. Merkbl. 9, 1 p. In Bad. Landwirt. Wchnbl. 118(1). Jan. 6, 1951. 18 B142
- 36778 ROCHE, J., and BAUDOIN, N. Sur la composition en acides aminés des protéines du coprah et sur leur teneur en méthionine. Acad. d'Agr. de France. Compt. Rend. 36:619-621. Nov. 15/22, 1950. 14 P215Bc  
Nutritive value of copra meal as feed.
- 36779 ROMAGOSA VILÁ, J. A. Los granos germinados en la alimentación del ganado. Ganadería [Madrid] 8: 636-637. Oct. 1950. 49 G15
- 36780 SCHOCH, W. Über den einfluss der verfütterung von silage auf den stoffwechsel des wiederkäuers. Schweiz. Bauer 105(8):3. (Concl.) Ref. Jan. 19, 1951. 17 Sch95
- 36781 SCHULTZE, A. B. Thioracil in livestock feeding. (Excerpts.) Grain & Feed J. Consolidated 106(5):28. Mar. 14, 1951. 298.8 G762
- 36782 SCHWÖRER. Kartoffeleinsäuerung - wieder modern! Bauern Ztg. 3:496. Oct. 27, 1950. 18 B324
- 36783 SEZEMOV, M. On utilizing coriander meal and anise waste products as feed for livestock. (In Russian.) Sovet. Zootekh. 5(11):74-75. Nov. 1950. 49 So822
- 36784 SPISNI, D. Chemical composition and nutritive value of oats. (In Italian.) Clin. Vet. 73:353-361. Dec. 1950. 41.8 C61
- 36785 SPITERI, J. Les algues en Tunisie. B. Econ. et Social de la Tunisie 47:45-49. Dec. 1950. 280.8 B874  
Composition and use as feed and fertilizer.
- 36786 SUTTON, T. S. A practical approach to the mineral problem. Feedstuffs 23(9):52, 54-56. Mar. 3, 1951. 286.81 F322  
In animal nutrition.
- 36787 THOMAS. Sur l'ensilage des pulpes et des feuilles et collets de betteraves. Défense Agr. de la Beauce et du Perche 48:31-32. Jan. 27, 1951. 14 D36
- 36788 TURK, K. L. Are preservatives necessary for making good silage from hay crops? Dairymen's League News 35(6):6, 23. Mar. 20, 1951. 44.8 D1432
- 36789 UNDERWOOD, E. J., and others. The value of meal and livermeal as sources of protein. Austral. Vet. J. 26:323-329. Ref. Dec. 1950. 41.8 Au72  
J. Conochie, F. M. Reed, and R. Smyth, joint authors.
- 36790 VALDINOCI, M. Proper feeding of livestock; superiority of ensiled forage over hays. (In Italian.) Agenzia Romana Note e Inform. Agr. 4:7-8. Jan. 18, 1951. 281.8 Ag3
- 36791 WALTHER, A. L. Proteins and their value in feedingstuffs. Poultry Field 3(21):6. Mar. 1, 1951. 47.8 P8655
- 36792 WEISS, H. Die bedeutung der abfälle der müllerei für die deutsche viehwirtschaft. Müllerei 4:75-76. Feb. 3, 1951. 298.8 M91



36793 WEISS, W. Cut livestock feeding costs with grass-legume forage. *Better Farming Methods* 23(3):30, 32. Mar.1951. 58.8 B46

36794 WILDER, O. H. M. The use of packing house by-products for animal feeds. *Food Technol.* 5:118-120. Mar.1951. 389.8 F7398

36795 WISCHHUSEN, J. F. Inorganic bioelements. *Flour & Feed* 51(10):29. Mar.1951. 298.8 F66

In animal nutrition.

36796 WOODFIELD, W. L. Better utilization of corn cobs. (Excerpts.) *Grain & Feed J. Consolidated* 106(4):14-15. Feb.28,1951. 298.8 G762

As feed and fertilizer.

36797 WURTZ, B., and ROUSSET, A. Sur la conservation des fourrages par ensemencement de bactéries lactiques. *Inst. Natl. Agron. Ann.* 37:49-63. Ref. 1950. 105.3 In8

Silage.

36798 ZAKHARCHENKO, I. M. Alkali-acid method of increasing the nutritive value of straw. (In Russian.) *Sovet. Zootekh.* 5(11):76-87. Nov.1950. 49 So822

36799 ZELTER, L. L'utilisation des ensilages dans l'alimentation animale. (Sum.) *Défense Agr. de la Beauce et du Perche* 48:36. Jan.27,1951. 14 D36

36800 ZELTER, S. Z. Transformons en produits animaux les excédents de pommes de terre. *Bétail & Basse-Cour* 5:474-475. Dec.1950. 49 B462

### VETERINARY MEDICINE

36801 BAILEY, J. W. Can Bang's disease be wiped out? *Farm & Ranch South. Agr.* 81(2):15,27. Feb.1951. 6 T31

36802 BAILEY, W. S. Observations on the diagnosis of helminthiasis. *Auburn Vet.* 7:71-73. Winter 1951. 41.8 Aul

36803 BARDOULAT, M. Les indications de Colchicum en homéopathie vétérinaire. *Rev. de Méd. Vét.* [Toulouse] 101:411-419. Aug./Sept.1950. 41.8 R32

36804 BIER, O. Antibiotics and their use in veterinary medicine. (In Portuguese.) *Biológico* 16:211-215. Nov.1950. 442.8 B529

36805 BOSZJAN, G. M. On the nature of viruses and bacteria. (In Polish.) *Med. Weter.* 6:449-452. Aug.1950. 41.8 M463

36806 BOURNE, R. F. The physiology of disease. IX. Disorders involving the liver; jaundice or icterus. *No. Amer. Vet.* 32:160-163. Mar.1951. 41.8 N812

36807 BRION, A. Les avortements; leurs causes. *Bétail & Basse-Cour* 6:81. Feb.1951. 49 B462

36808 BROWN, C. W. Veterinarians in the emergency. *Iowa Vet.* 22(2):7-11. Mar./Apr.1951. 41.8 Io9

36809 CAMERON, T. W. M. The social importance of comparative medicine and veterinary science. *Canad. J. Compar. Med.* 15:26-31. Feb.1951. 41.8 C162

36810 CAPOBRES, C. C. Protectors of public health through scientific and technical knowledge. *Philippine Livestock Mag.* 6,i.e.1:315. Oct./Nov.1950. 49 P53

Bureau of Health and Bureau of Animal Industry.

36811 CARRERE, L., and RENOUX, G. Anticorps bloquants dans le serum de sujets brucelliques. III. Leur place par rapport à l'apparition des anticorps agglutinants. *Inst. Pasteur. Ann.* 80:103-105. Jan.1951. 448.3 An75

36812 CARRERE, L. Étude sur la mélitine. *Inst. Pasteur. Ann.* 80:101-103. Jan.1951. 448.3 An75

Brucella antigen.

36813 CHANDLER, L. U. Nutritional aspects of resistance. *Amer. Vet. Med. Assoc. J.* 118:179-183. (To be cont.) Mar.1951. 41.8 Am3

36814 CHANDRASEKHARAN, K. P. B. C. G. vaccination; contributions by the veterinary profession. *Indian Vet. J.* 27:148-152. Ref. Nov.1950. 41.8 In2

36815 CHAUTEPS, B. Le rôle du cholestérol dans l'immunité. *Chabris, Bureau, 1950.* 40 p. Ref. 386.2 C39

Thèse - École Nationale Vétérinaire d'Alfort.

36816 COFFEE, W. M. General practice illustrated. *Kans. Vet. Med. Assoc. Proc.* 46:43-54. 1950. 41.9 K133

36817 CUGNINI, A., and PELI, I. Zoognostica [Animal physiology]. Ed. 4. Bologna, Patron, 1950. 311 p. 444 C89

36818 CZARNOWSKI, A., and BUCZOWSKI, Z. Bacteria of the Salmonella group in the diagnostic material at the District Veterinary Hygiene Institute in Gdańsk. (In Polish.) *Med. Weter.* 6:467-468. Aug.1950. 41.8 M463

English summary.

36819 DALY, L. L. Some veterinary problems of the State Veterinarian in Natal. *So. African Vet. Med. Assoc. J.* 21:141-154. Dec.1950. 41.8 So8

36820 DEAN, B. H. The immediate role of the veterinarian in civil defense. *Calif. Vet.* 4(3):13-14. Jan./Feb.1951. 41.8 C12

36821 DENMARK. VETERINAER- OG LANDBOGHJ-SKOLE. Beretning [Report of the Royal Veterinary and Agricultural College for the study year Sept. 1, 1947 to August 31, 1948]. 87 p. København, 1950. 104 D41B

36822 DES ILES, T. A. The veterinarian role in peasant livestock development. *Agr. Soc. Trinidad & Tobago. Proc.* 50:267-269. Sept.1950. 8 T73

36823 DIESEL, A. M. Official approval for the testing of stock and its certification of freedom from scheduled diseases. *So. African Vet. Med. Assoc. J.* 21:160-165. Dec.1950. 41.8 So8

36824 DINSMORE, J. R. Intravenous use of procaine hydrochloride. *No. Amer. Vet.* 32:165,168. Mar.1951. 41.8 N812

36825 DIXON, O. H., JR. Veterinarians and the "doctors draft". *Norden News* 25:6,11. Jan./Feb.1951. 41.8 N75

36826 DOBYCHIN, N. P. 15 years of Chkalov Regional Veterinary Experiment Station. (In Russian.) *Sotsialist. Zhivotnovod.* 12(9):94-95. Sept.1950. 49 So71

36827 DOGRA, J. R. Rabies control in India. *Indian Vet. J.* 26:494-497. May 1950. 41.8 In2

36828 EDWARDS, J. T. The advance of veterinary medicine, 1900-1950. *Brit. Vet. J.* 107:47-62. Feb.1951. 41.8 V643

36829 FETHERS, G. Grass seeds in animals. *Past. Rev.* 61:14-15. Jan.19,1951. 23 Au75

36830 FISCHER, H. Gedanken über den tierärztlichen beruf. *Monatsh. f. Vetmed.* 6:12-13. Jan.1,1951. 41.8 M742

36831 FOSTER, J. W., HANSEN, P. A., and FABER, J. E., JR. Antigenicity of certain extracts of Brucella abortus. (Abs.) *Va. J. Sci. (n.s.)*:344. Sept.1950. 470 V81

36832 GIBBONS, W. J. Pointers for practitioners. *Auburn Vet.* 7:84-86. Winter 1951. 41.8 Aul

Poisonous plants; sterility.

36833 GIROUY, G. A quoi servent les vétérinaires? *Agriculture [Paris]* 15(120):19-20. Jan.1951. 14 Ag823

36834 GONZÁLEZ CUBILLO, J. El diagnóstico de gestación en las hembras domésticas. *Ganadería [Madrid]* 8:609-611. Ref. Oct.1950. 49 G15

36835 GOODLOW, R. J., BRAUN, W., and MIKA, L. A. The role of D-alanine in the growth and variation of Brucella abortus. *Arch. Biochem.* 30:402-406. Ref. Feb. 1951. 381 Ar2

36836 GORDON, W. S. The Agricultural Research Council's Field Station, Compton, Berks. II. *Brit. Agr. B.* 3:193-199. 1950/51. 10 B776

The study of the major disease problems is the main work of the station.

36837 GRANT, R. Bruising of livestock—its economic importance. *Past. Rev.* 60:1337-1338. Dec.16,1950. 23 Au75

36838 GUBAREVICH, I. A. G. Veterinarnoe akusherstvo i ginekologiya [Veterinary obstetrics and gynecology]. Ed. 2, rev. and enl. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 512 p. (Uchebniki i Uchebnye Posobiya dlya Veterinarnykh Tekhnikumov) 41 G933

36839 HAGEN, K. Zur bekämpfung der Taenia saginata. *Berlin. u. Münch. Tierärztl. Wchnschr.* 1951:18-19. Jan.1951. 41.8 B45

36840 HARMS, F. Die brauchbarkeit der zentrifugier-agglutinationsmethode. *Berlin. u. Münch. Tierärztl. Wchnschr.* 1951:33-34. Feb.1951. 41.8 B45

36841 HARRIS, L. E. New developments in chemotherapeutic agents. (Abs.) *Norden News* 25:7,9. Jan./Feb.1951. 41.8 N75

36842 HUGHES, J. S. Hormones in animal production. *Feedstuffs* 23(8):30,32. Feb.24,1951. 286.81 F322

36843 IPPOLITOV, M. S. Antimicrobial and therapeutic action of onion. (In Russian.) *Priroda* 39(9):62-63. Ref. Sept.1950. 410 P933

In the treatment of livestock diseases.



- 36844 JELMONI, E. Foot and mouth disease and markets. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:334-335. Dec.15,1950. 16 C72
- 36845 KANSAS VETERINARY MEDICAL ASSOCIATION. Proceedings, forty-sixth annual convention. Topeka,1950. 131 p. 41.9 K133
- 36846 KAPLAN, M. M. Present knowledge of brucellosis; a summary. *World Health Organ. B.* 3:309-322. Ref. 1950. 449.9 W892B  
Man and animals.
- 36847 KIRKSEY, G. Foot & mouth battle now in its final stage. *Natl. Live Stock Prod.* 29(6):18. Mar.1951. 280.38 N21  
Mexico.
- 36848 KLUSSENDORF, R. C. Reviewing 1950. *Iowa Vet.* 22(2):24,26,28,30. Mar./Apr.1951. 41.8 I09
- 36849 KOCH, W. Langlebigkeit und dauerleistung. *Tierzüchter* 3:4-5. Jan.5,1951. 49 T445
- 36850 KOEGEL, A. O. Nutztielerparasitologie für tierärzte, landwirte und nutztierhalter. v. 1. Protozoologie und entomologie. Stuttgart,Enke,1950. 339 p. 436 K812N
- 36851 KOROPOV, V. M. Pavlov's teaching—into veterinary science. (In Russian.) *Veterinariia* 27(10):1-13. Oct.1950. 41.8 V6426
- 36852 KRISHNASWAMI, A. Is a study of our ancient veterinary literature necessary to us? *Indian Vet. J.* 26:507-520. May 1950. 41.8 I02
- 36853 KUBITZ, H., and BAUER, H. Tierarzt und handelsfuttermittel eine grundsätzliche stellungnahme zu aktuellen fütterungsfragen. *Tierärztl. Umschau* 6:44-50. Ref. Feb.1951. 41.8 T445
- 36854 KUTTLER, A. K. Bovine, avian and swine tuberculosis eradication. Washington, U. S. Bur. Anim. Indus.,1950. 4 p. 1.972 A2K96  
Presented at annual meeting of the United States Live-stock Sanitary Association, Nov. 1-3, 1950, Phoenix.
- 36855 LEIGHTON, R. L., and KEEFE, F. A new aid in intramedullary pinning. *Amer. Vet. Med. Assoc. J.* 118:149. Mar.1951. 41.8 Am3
- 36856 MANLEY, F. H. Some methods of control of infectious diseases. *Auburn Vet.* 7:76-80. Winter 1951. 41.8 Aul
- 36857 MAROTEL, G. Parasitologie vétérinaire, parasites et maladies parasitaires des animaux. Ed. 2. Paris,Baillière,1949. 652 p. (Encyclopédie Cadéac) 436 M34
- 36858 MARTÍN LOMENA, S. Parásitos internos del ganado; principales enzootias parasitarias. Spain. Min. de Agr. Serv. de Capacitación y Propag. P. Manuales Téc. 10,103 p. Ref. 1950. 15 Sp14
- 36859 MAYER, D. T., and others. The technique for characterizing mammalian spermatozoa as dead or living by differential staining. *J. Anim. Sci.* 10:228-235. Ref. Feb.1951. 49 J82  
C. D. Squiers, R. Bogart, and M. M. Oloufa, joint authors.
- 36860 MILNE, F. J. A case of secondary ectopic pregnancy in a mare. *Amer. Vet. Med. Assoc. J.* 118:153-155. Mar.1951. 41.8 Am3
- 36861 MIRRI, F. Q fever in the Province of Pesaro and the meeting of veterinarians. (In Italian.) *Prog. Vet.* 6:43. Jan.15,1951. 41.8 P942
- 36862 MITCHELL, W. M. Modern trends in veterinary education. *Vet. Rec.* 63:180-183. Mar.10,1951. 41.8 V641
- 36863 MOORE, T. The *Brucella abortus* ring test. *Canad. J. Compar. Med.* 15:39-46. Ref. Feb.1951. 41.8 C162
- 36864 MOSES, H. E. What does vaccination mean? *World's Poultry Sci. J.* 7:35-37. Jan./Mar.1951. 47.8 W89
- 36865 MÜLLER, M. Der tierärztliche beruf und die tierärztliche wissenschaft. Berlin. u. Münch. Tierärztl. Wchnschr. 1951:28-29. Feb.1951. 41.8 B45
- 36866 NIŽNÁNSKY, F. The problems and tasks of the veterinary administration in Slovakia with reference to the protection of human health. (In Czech.) *Časopis Českoslov. Vet.* 5:447-452. Ref. Oct.10,1950. 41.8 C27
- 36867 NORTH DAKOTA. LIVESTOCK SANITARY BOARD. Forty-third and forty-fourth annual report; years 1949 and 1950. Bismark,1950. 52 p. 49.9 N81
- 36868 NORTHERN RHODESIA. DEPT. OF VETERINARY SERV. Annual report for the year 1949. Lusaka, 1950. 22 p. 41.9 N816
- 36869 OLIVKOV, B. M. Lechenie infitsirovannykh ran u zhivotnykh [Treatment of infected wounds in animals]. Moskva,Gos. Izd-vo Selkhoz Lit-ry,1950. 231 p. 41 OL4L  
Includes antibiotics.
- 36870 PHILLIPSON, A. T. Digestion in the ruminant. *Agr. Prog.* 25:36-38. 1950. 10 Ag86
- 36871 PICKETT, A. G. The position of the practicing veterinarian in disease control. *Kans. Vet. Med. Assoc. Proc.* 46:84-89. 1950. 41.9 K133
- 36872 POLIAKOV, D. K. Dissemination of knowledge and introduction of scientific achievements into production—urgent problem of veterinary specialists. (In Russian.) *Veterinariia* 27(9):5-10. Sept.1950. 41.8 V6426
- 36873 PRENTZELL, H. "Darmisan", ein neues antidiarrhoicum in der tierärztlichen praxis. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:265. Dec.1950. 41.8 B45
- 36874 PRODANOFF, P., and THENTCHEFF, D. Pour l'application des phytocides dans la pratique sanitaire vétérinaire. (In Bulgarian.) *Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis.* 18(2):115-122. 1950. 106.3 R32  
French summary.
- 36875 QUEENSLAND. DEPT. OF AGRICULTURE. DIV. OF ANIMAL INDUSTRY. Yellowwood [Cladrastis] poisoning of livestock. *Queensland Agr. J.* 71:332-339. Dec. 1950. 23 Q33
- 36876 RAMON, G. Les méthodes fondamentales d'immunisation et les procédés de vaccination; étude générale et critique. *Schweiz. Arch. f. Tierheilk.* 93:69-90. (To be cont.) Feb.1951. 41.8 Sch9
- 36877 RESEARCH DEFENCE SOCIETY. Notes on the law relating to experiments on animals in Great Britain (the Act of 1876). London,1950. 13 p. 40 R312
- 36878 RODRIGUES, C. Combined vaccination. (In Portuguese.) *Biológico* 16:207-211. Nov.1950. 442.8 B529  
In veterinary medicine.
- 36879 ROGERS, L. D. The state veterinary association. *Auburn Vet.* 7:74-75. Winter 1951. 41.8 Aul
- 36880 ROSSI, C. Q fever; synthetic review. (In Italian.) *Prog. Vet.* 6:78,80-82. Feb.1,1951. 41.8 P942  
In man and animals.
- 36881 SCHNEIDER, B., and KOSCH, W. Prüfung und differenzierung eines maul- und klauenseuche-stammes aus Venezuela. Berlin. u. Münch. Tierärztl. Wchnschr. 1951:36-38. Feb.1951. 41.8 B45
- 36882 SCRUGGS, J. H., and JACKSON, J. W. Rabies—a disgrace. *Hoosier Farmer* 36(2):7. Feb.1951. 280.8 H76
- 36883 SEIDEN, R., and WELLS, J. L. Hormones in veterinary medicine. *Vet. Med.* 46:143-148. Ref. Apr. 1951. 41.8 M69
- 36884 SEREBRIAKOV, P. N. Physiological problems of growth and development of agricultural animals. (In Russian.) *Sov. Zootekh.* 5(12):9-19. Dec.1950. 49 So822
- 36885 SINESHCHEKOV, A. D. Ideas of academician I. P. Pavlov on the physiology of farm animal nutrition. (In Russian.) *Sotsialist. Zhivotnovod.* 12(11):8-17. Nov. 1950. 49 So71
- 36886 SJÖBERG, A. Die bei den haustieren in Finnland vorkommenden nematoden. *Soc. pro Fauna et Flora Fenn. Memo.* (1948-49)25:15-16. 1950. 511 H365Me
- 36887 SKORIN, I. E., and others. Obtaining of a live microbic culture of *Brucella* from a killed semifluid formol vaccine against brucellosis. (In Russian.) *Veterinariia* 27(9):28-30. Sept.1950. 41.8 V6426  
M. S. Shaburov, M. N. Popov'ants, and G. M. Bosh'an, joint authors.
- 36888 STEIN, C. D. Anthrax in livestock during 1950. *Vet. Med.* 46:141-142. Apr.1951. 41.8 M69
- 36889 STERN, A. I. The question of euthanasia. *Amer. Vet. Med. Assoc. J.* 118:150-151. Mar.1951. 41.8 Am3
- 36890 SZAFRAN, A. Vulvulus of the pregnant uterus. (In Polish.) *Med. Weter.* 6:475-476. Aug.1950. 41.8 M463
- 36891 SZYFRES, B. La brucelosis animal en los Estados Unidos de N. América. IV. Uruguay. Min. de Ganad. y Agr. B. Inform. 356:11-12. Jan.18,1951. 9.9 G15B
- 36892 THIJN, J. W. Contagious abortion, *Brucella abortus* Bang. (In Dutch.) *Drents Landtbl.* 32(5):2. (To be cont.) Feb.3,1951. 12 D812



- 36893 TORYU, Y. Histological studies of glycogen in the hair of domestic animals with special reference to replacement of hair. *Tohoku J. Agr. Res.* 1:29-34. Mar.1950. 22.5 T574
- 36894 TRAWINSKI, A. Zoonotic parasitic diseases. (In Polish.) *Med. Weter* 6:456-458. Aug.1950. 41.8 M463
- 36895 TURK, R. D. Internal parasites of ruminants. *Kans. Vet. Med. Assoc. Proc.* 46:59-69. 1950. 41.9 K133
- 36896 U. S. DEPT. OF AGRICULTURE. Index-catalogue of medical and veterinary zoology. 12. Authors: P. to Qvortrup, by A. Hassall, M. A. Doss, D. B. Segal, and D. H. Ray. Washington, 1951. p. 3721-4054. 1 An5Ind
- 36897 VAITSMAN, J. The limitations of phenothiazine in the control of animal verminosis. (In Portuguese.) *Lav. Arroz.* 4(47):26. Nov.1950. 59.8 L39
- 36898 VAITSMAN, J. Owls protect livestock from rabies. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 14: 164-166. July/Dec.1950. 9.2 R325
- 36899 VIANELLO, G. Anthrax. (In Italian.) *Humus* 6(11):30-31. Nov.1950. 16 H88
- 36900 WEDEMEYER, K. O. Eine neue schnittführung bei der embryotomie. *Deut. Tierärztl. Wchnschr.* 57:397-398. Dec.15,1950. 41.8 D482
- 36901 WEIS, J. Atherosclerosis in animals and in man. (In Czech.) *Časopis Českoslov. Vet.* 5:482-489. Ref. Nov.10,1950. 41.8 C27
- 36902 WEISER, J. Prophylaxis of coccidiosis. (In Czech.) *Časopis Českoslov. Vet.* 5:503-504. Ref. Nov. 10,1950. 41.8 C27
- 36903 WILSON, I. D. Veterinarians are scarce, but the South is doing something about it. *Breeder-Stockman* 12(10):53-55. Mar.1951. 49 V81
- 36904 WILSON, R. A. S., BUILDER, P. L., and MCLELLAND, R. M. Modern views on surgical dressings. *Vet. Rec.* 63:137-141. Feb.24,1951. 41.8 V641
- Three articles with discussion.
- 36905 WISCONSIN. DEPT. OF AGRICULTURE. Wisconsin licensed veterinarians. *Wis. Dept. Agr. B.* 303, 24 p. Sept./Oct.1950. 2 W752B
- 36906 ZAIANCHKOVSKI, I. F. Types of rumen atony and their classification. (In Russian.) *Veterinariia* 27(10):44-48. Oct.1950. 41.8 V6426
- 36907 ZOTTNER, Les brucelloses au Maroc. *Terre Marocaine* 25(254):11-13. Jan.1951. 24 T44
- 36908 ZUNKER, M. Probleme der tollwutbekämpfung in Berlin. Berlin. u. Münch. Tierärztl. Wchnschr. 1951: 1-4. Jan.1951. 41.8 B45

## MISCELLANEOUS

- 36909 BABKIN, N. N. Development of public livestock on Shevchenko Collective Farm [in Krasavskii District, Saratov Region]. (In Russian.) *So'fialist. Zhivotnovod.* 12(11):49-54. Nov.1950. 49 So71
- 36910 BEVARD, G. E. Records fall at 45th stock show. *West. Farm Life* 53(4):6-7,25,27. Feb.15,1951. 6 R153
- National Western Stock Show.
- 36911 BLENDINGER, W. Wärmeverhältnis vieler Haustiere. *Deut. Tierärztl. Wchnschr.* 57:396-397. Dec.15,1950. 41.8 D482
- 36912 BOGOLUBSKI, S. N. Problems of animal husbandry in the scientific-research institutions of the Academy of Sciences of U.S.S.R. (In Russian.) *Akad. Nauk SSSR. Vest.* 20(12):54-61. Dec.1950. 511 A14V
- 36913 BOUILLOT, J. Le clos d'équarrissage moderne. Paris, Proba, 1950. 68 p. 41.2 B6635
- Thèse - École Nationale Vétérinaire d'Alfort.
- 36914 CANADIAN NATIONAL LIVE STOCK RECORD BOARD. Report of the Record Committee to Record Board and Record Associations for the year 1950. Ottawa, 1951. 63 p. 49.9 C163
- 36915 FARINAS, E. C. Thou shall not judge the carabao by its size. Philippines. Bur. Plant Indus. Plant Indus. Digest 13(6):18-20. June 1950. 25 P544P
- Carabao situation in the Philippine Republic.
- 36916 FREUND, W. France stages her first post-war stock show. *Farmers Wk. [London]* 34(10):42-43,45. Mar.9,1951. 10 F2226
- 36917 GRAZIERS' ASSOCIATION OF NEW SOUTH WALES. The graziers' annual, 1950 edition. Sydney, 1950. 308 p. 45.9 C79

36918 HERING, W. Aus der badischen tierzucht; ein ausschnitt aus der ersten schau der badischen landwirtschaft in Freiburg i. Brsg. Tierzüchter 3:13-15. Jan.5, 1951. 49 T445

36919 HORNBAUM. Dorfschauen fördern die tierzucht. Tierzucht 3:56-57. May 1950. 49 T443

36920 IURMALIAT, A. P. Problems and prospects of mass experimentation in state and collective farm animal industry. (In Russian.) *Sovet. Zootekh.* 5(11):9-23. Nov. 1950. 49 So822

36921 KAMIO, M., ed. Jitsuyo chikusan shinsbo [A practical book of live-stock]. Tokyo, Chikuyo-shobo, 1950. 325 p. 40 K122

36922 LIVINGSTON, C. J. The background of livestock judging. *Ala. Farmer* 30(4):3,12. Jan.1951. 276.8 AL1

36923 NIEUWENHUIZEN, G. Future of animal protection. (In Dutch.) *Keurmeester* 41(12):5-8. Dec.1950. 50.8 K51

36924 PATUSHIN, P. Livestock farms of Krasnyi Kollektivist Collective Farm. (In Russian.) *Kolkhoz. Proizvodstvo* 10(9):30-31. Sept.1950. 281.8 K83

36925 PODBEREZKIN, I. A. Achievements of the Communist-livestock raiser, Usenov. (In Russian.) *So'fialist. Zhivotnovod.* 12(9):46-47. Sept.1950. 49 So71

His methods of managing livestock farms on Pro-buzhdenie Collective Farm in Pavlodar Region, Kazakh SSR.

36926 SHITOV, A. N. Nenets reindeer raising state farm. (In Russian.) *So'fialist. Zhivotnovod.* 12(11):61-67. Nov.1950. 49 So71

36927 SPAGNOLI, A. Slaughtering of livestock in Italy. (In Italian.) *Allevatore* 6(40):3. Oct.8,1950. 49 AL55

Statistics.

36928 TAROVERDOV, L. N. On antibiotic properties of peat and peat-manure mixture [used as litter]. (In Russian.) *Veterinariia* 27(10):40-43. Oct.1950. 41.8 V6426

36929 WATSON, J. Contributing to livestock improvement. *Fairs & Expo.* 3(24):16-18. Feb.1951. 310.8 F16

## CATTLE

## Breeds and Breeding

36930 ABERDEEN-Angus-there's a new era ahead for the blocky Blacks! *Coastal Cattleman* 16(12):20,44. Feb.1951. 43.8 C63

36931 ABL. Gedanken zur Jubiläumsschau der Mitteldeutschen Fleckviehzucht in Erfurt 1949. *Tierzucht* 3:57-60. May 1950. 49 T443

36932 ABOL, T. P. Selection of pedigreed bulls. (In Russian.) *So'fialist. Zhivotnovod.* 12(9):65-66. Sept. 1950. 49 So71

36933 ALLISON, E. D. Indiana, a good place to buy; Shorthorns and Polled Shorthorns of high quality, modern in the best sense, are located over most all of the state. *Shorthorn World* 35(21):26-27. Feb.10,1951. 43.8 Sh8

36934 AUTRUP, E., and RASBECH, N. O. Fertilizing results from artificial insemination with bull sperm in the postestrus hemorrhagic period. (In Danish.) *Nord. Vetmed.* 3:40-46. Jan.1951. 41.8 N813

English summary.

36935 AYRSHIRE CATTLE HERD BOOK SOCIETY OF GREAT BRITAIN AND IRELAND. Merit register of pedigree Ayrshires. Approved sires; approved dams; club cows. Ayr, 1950. 110 p. (Research B.) 43.9 Ay74R

36936 BENDIXEN, H. C. Brucellose bei bullen und ihre bedeutung für die künstliche besamung. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:253-257. Dec.1950. 41.8 B45

36937 BENEZRA REVENGA, M. V. Determinación del coeficiente de adaptabilidad de las razas lecheras. *Agro [El Valle]* 5(14):42-44. Sept./Oct.1950. 9.95 Ag83

36938 BENEZRA REVENGA, M. V. Tiene su ganado sangre de la raza Holstein? *Agro [El Valle]* 5(14):35-41. Sept./Oct.1950. 9.95 Ag83

36939 BETTERTSWORTH, B. English breeds [of cattle] gain favor in Florida. *Livestock Wk.* 5(12):8-11. Jan.25,1951. 49 L753

Shorthorn, Hereford, and Angus.

36940 BISHOP, F. G. Matrons of Jersey breed establish new records. *Tex. Livestock J.* 10:79. Jan.15, 1951. 49 T29



- 36941 BONIFACE, L. Milking Shorthorns. New Zeal. Studmasters' Annu. Rev. 2:105-109. Sept.1950. 49.7 N48
- 36942 BONSMA, F. N. Artificial insemination and the breeding of stud cattle. (Sum.) So. African Vet. Med. Assoc. J. 21:184-186. Dec.1950. 41.8 So8
- 36943 BROUGHTON, A. How shy breeders are best settled; best to know your cows and be sure they are bred at the right time, by bull or artificially. Wis. Agr. & Farmer 78(4):4. Feb.17,1951. 6 W751
- 36944 BROWN, B. 1950 action-packed for Holstein breeders. Tex. Livestock J. 10:80-81. Jan.15,1951. 49 T29
- 36945 BROWN, P. T. History of Indiana Shorthorns. Shorthorn World 35(21):32-34. Feb.10,1951. 43.8 Sh8
- 36946 BUCKMASTER, T. Widening breed markets; we shall continue to improve Indiana Shorthorns in order to promote the breed at home and beyond state boundaries. Shorthorn World 35(21):18,35-37. Feb.10,1951. 43.8 Sh8
- 36947 CAMPBELL, S. Shorthorns, 1900-1950. Scot. Farmer 59(spec. album no.):51. Jan.1,1951. 10 Sco8
- 36948 CARLSSON, C. E. Inner secretion and fertility of cows. (In Swedish.) Ladugården 1950:300-301. Oct.1950. 44.8 L12
- 36949 CARRICK, Ayrshire cattle in 1950. Scot. Farmer 59(spec. album no.):181-187. Jan.1,1951. 10 Sco8
- 36950 CASTLE-DOUGLAS, Galloways. New Zeal. Studmasters' Annu. Rev. 2:92-93. Sept.1950. 49.7 N48
- 36951 CHITTENDEN, D. W. Chittenden reviews progress of Polled Herefords during '50. South. Livestock J. 10(7):26. Feb.1951. 43.8 F66A
- 36952 CHITTENDEN, D. W. Polled Herefords gaining world interest. Tex. Livestock J. 10:68. Jan.15,1951. 49 T29
- 36953 COCCO, E. DI. Fertility of the "Romagna" breed. (In Italian.) Riv. di Econ. Agr. 5:22-66. 1950. 281.8 R52  
English summary.
- 36954 COLLIER, F. B. M. When purebreds came to Ontario; early farmers of central Ontario were dubious at first of the value of purebreds, but Jerseys, then Herefords finally won them over. Family Herald & Wk. Star 82(10):7. Mar.8,1951. 7 F21
- 36955 CONGLETON, M. W. Polled Shorthorns must pay their way. Shorthorn World 35(21):80. Feb.10,1951. 43.8 Sh8
- 36956 CUMING, C. A. Ayrshires. New Zeal. Studmasters' Annu. Rev. 2:54-59. Sept.1950. 49.7 N48
- 36957 CUMING, C. A. Jersey breed. New Zeal. Studmasters' Annu. Rev. 2:82-92. Sept.1950. 49.7 N48
- 36958 DIMITROPOULOS, E. Vitamine E et spermatogénèse chez le taureau. Inst. Agron. et Sta. de Rech. de Gembloux. B. 18(1/2):68-74. 1950. 105.1 G285  
English summary.
- 36959 DYRBYE, N. Jersey cows and roughage. (In Danish.) Jerseyblad 44:69-71. Dec.1950. 43.8 J485
- 36960 ELLIOTT, J. A. Milk cows with a southern accent; something new has been added in dairy cattle breeding. It's Red Sindhi blood. Prog. Farmer, Tex. Ed. 66(3):44,49. Mar.1951. 6 T311
- 36961 ENGELER, W. Ergebnisse der halteprämierungen und der zuchtfamilienschauen im jahre 1950; bericht und aufnahmen der herdebuchstelle für Braunvieh. Schweiz. Brauvieh-zuchtverband. Mitt. 1950:195-198. Dec.1950. 43.9 Sch93M
- 36962 ERB, R. E., and EHLERS, M. H. Resazurin reducing time as an indicator of bovine semen fertilizing capacity. J. Dairy Sci. 33:853-864. Ref. Dec.1950. 44.8 J822
- 36963 EVANS, J. V. Aberdeen-Angus. New Zeal. Studmasters' Annu. Rev. 2:61-68. Sept.1950. 49.7 N48
- 36964 EVANS, J. V. Herefords. New Zeal. Studmasters' Annu. Rev. 2:41-46. Sept.1950. 49.7 N48
- 36965 EVANS, V. V. Shorthorn cattle. New Zeal. Studmasters' Annu. Rev. 2:110-112. Sept.1950. 49.7 N48
- 36966 FANDEEV, B. V. Results of interspecific crossing of cattle in the northern districts of Komi ASSR. (In Russian.) Sovet. Zootekh. 5(11):30-36. Nov.1950. 49 So822
- 36967 FLEURY, F. Notes relatives à l'introduction des bovins Hereford en Abitibi. Terre de Chez Nous 22(52):11. Feb.21,1951. 7 T27
- 36968 FRAOCH, Highland cattle in 1950. Scot. Farmer 59(spec. album no.):171-173. Jan.1,1951. 10 Sco8
- 36969 FRASER, A. A healthy cow—or "an ambulant churn." Austral. Dairy Rev. 19:14. Jan.1,1951. 44.8 Au73  
Fertility.
- 36970 GABILLARD, E. De la race bovine de Guernesey. Paris, Vigot, 1950. 33 p. Ref. 43 G11  
Thesis - École Nationale Vétérinaire d'Alfort.
- 36971 GALLOWAY CATTLE SOCIETY OF GT. BRIT. AND IRELAND. The Galloway herd book, containing pedigrees of purebred Galloway cattle, v. 71. Dumfries, Courier Press, 1951. unpagged. 43.9 G13H
- 36972 GAYDEN, H. P. Brahman's march of progress. Tex. Livestock J. 10:77-78. Jan.15,1951. 49 T29
- 36973 GRIFFITH, M. Welsh Black cattle. Farming Gloucestershire 9:75,77. 1950. 10 F2291
- 36974 GUARD, S. R., and HARDY, W. J. Milking Shorthorns for the general farmer. Breeder's Gaz. 116(4):6-7,32-35,43. Apr.1951. 49 B74
- 36975 HAFFERT, W. A., JR. Artificial breeding at the crossroads. N. J. Farm & Gard. 22(2):16-17,72. Feb. 1951. 6 G162  
Dairy cattle.
- 36976 HAGERUP, A. Red Trønder cattle through 50 years. (In Norwegian.) Norsk Landbr. 17:30-32. Jan.19, 1951. 11 N8122
- 36977 HANSEN-LARSEN, L. Le controle de la descendance des taureaux. Bétail & Basse-Cour 5:470-471. Dec.1950. 49 B462
- 36978 HARDY, W. J. Milking Shorthorns—the breed with a background. Tex. Livestock J. 10:72-73. Jan.15, 1951. 49 T29
- 36979 HARLOW, C. G. Shorthorns never let you down; because of its soils and people, Indiana is a good place, and it is a good place to buy Shorthorn cattle. Shorthorn World 35(21):22,58. Feb.10,1951. 43.8 Sh8
- 36980 HARVEY, W. R. Genetic variation and covariation in type and butterfat production among Jersey cows. Iowa State Col. J. Sci. 25:244-245. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 36981 HELMENIUS, A. Purchase of bulls by the artificial insemination associations. (In Swedish.) Lantmannen 35:75-76. Jan.27,1951. 11 L234
- 36982 HERREN, F. Ein neuer weg in der gemeindlichen bullenhaltung. Württemb. Wchnbl. f. Landwirt. 118:89-90. Feb.3,1951. 18 W96
- 36983 HERRICK, J. B. Infertility in cattle. Iowa Vet. 22:26,28,30,34,39. Jan./Feb.1951. 41.8 Io9
- 36984 HILDEMAN, S. E. Crossing between Red Polls and mountain breed in SKB breeding. (In Swedish.) Lantmannen 35:16-17. Jan.6,1951. 11 L234
- 36985 HINRICHS, C. T. Längere zuchtbenutzung älterer bullen. Deut. Landwirt. Presse 74:5. Jan.6,1951. 18 D482
- 36986 HOBSON, G. The British Friesian advance. Scot. Farmer 59(spec. album no.):55. Jan.1,1951. 10 Sco8
- 36987 HOULDSWORTH, SIR W. T. R. Ayrshires, 1900-1950; fifty years of change and progress. Scot. Farmer 59(spec. album no.):54. Jan.1,1951. 10 Sco8
- 36988 JONES, C. M. I like records—seldom do they last; the best Shorthorns can be purchased at a price the one who needs them most—the man on the farm with a son coming on—can afford to pay. Shorthorn World 35(22):9-10,71. Feb.25,1951. 43.8 Sh8
- 36989 KENNEDY, C. Blacks can take it; McCormick ranch proves the adaptability of the Doddies. Aberdeen-Angus J. 32(7):62-63,102,104,106,108. Feb.1951. 43.8 Ab3
- 36990 KERR, J. E. Aberdeen-Angus cattle, 1900-1950. Scot. Farmer 59(spec. album no.):50. Jan.1,1951. 10 Sco8
- 36991 KNAPP, W. C., and others. Brahman-Hereford crosses for slaughter calf production. Tex. Agr. Expt. Sta. Prog. Rpt. 1321,4 p. Feb.5,1951. 100 T31P  
J. H. Jones, J. K. Riggs, and O. D. Butler, joint authors.
- 36992 KOGER, M. The influence of sires on the production of their daughters. In U. S. Forest Serv. Southwestern Forest and Range Experiment Station. Ranch Day, October 9, 1950, p.25-26. Tucson?1950. 1.9622 ScSo81  
Cattle.
- 36993 LABANDA EGIDO, P. La raza vacuna de trabajo "Serrana Soriana". Soria. Junta Prov. de Fomento Pecuario. P. 11,68 p. May 1950. 49.9 Sp15
- 36994 LASLEY, J. F. Spermatozoan motility as a measure of [bovine] semen quality. J. Anim. Sci. 10:211-218. Feb.1951. 49 J82



36995 LECKY, T. P. The Hope Holsteins; a study of the breeding of Holstein (Friesian) cattle at Hope Agricultural Station, Jamaica. Jamaica. Dept. Agr. B. (n.s.) 44, 22 p. 1950. 8 J227B

36996 LEGATES, J. E. A selection index for butterfat production in Jersey cattle utilizing the fat yields of the cow and her relatives. Iowa State Col. J. Sci. 25:278-279. Jan. 1951. 470 Io9

Abstract of thesis (Ph. D.).

36997 LE ROI, D. Artificial insemination for the dairy herd. Dairyman 68:73-75. Feb. 1951. 44.8 D1426

36998 LEYDOLPH, W., and ULRICH, A. Ist bei der Rindviehzüchtung der eiweisgehalt der milch zu berücksichtigen? Tierzüchter 2:642-643. Dec. 20, 1950. 49 T445

36999 LITTERST, F. C., JR. Cattle breeders at the crossroads. Tex. Livestock J. 10:8,42. Jan. 15, 1951. 49 T29

"Regular" and "comprest" types.

37000 LYNN, C. J. The best of all the breeds; good Shorthorns and Polled Shorthorns can be bought within the reach of the farmer who appreciates good livestock and wants to carry on with that kind. Shorthorn World 3 (21):9. Feb. 10, 1951. 43.8 Sh8

37001 MCCARTHY, D. Herefords making strides in popularity; new world's beef records established for a beef breed. Tex. Livestock J. 10:63-64. Jan. 15, 1951. 49 T29

37002 MCGREGOR, J. A. Breeders duty is to improve. Fla. Cattleman 15(5):54-55. Feb. 1951. 43.8 F66

37003 MCMILLAN, D. La raza Guernsey de ganado lechero. Chacra 21(243):16. Feb. 1951. 9 C34

37004 MAIR, R. Highland cattle, 1900-1950. Scot. Farmer 59(spec. album no.):55. Jan. 1, 1951. 10 Sco8

37005 MEAD, S. W. Recognize hereditary defects. Calif. Dairyman 31(2):30. Feb. 24, 1951. 44.8 C12

37006 MERKT, G. Die unfruchtbarkeit im kuhstall. Bauern Ztg. 3:630-631. Dec. 22, 1950. 18 B324

37007 MILLER, M. Aberdeen-Angus popular breed in Louisiana. Gulf Coast Cattleman 16(12):26,28. Feb. 1951. 43.8 G95

37008 MOISÉS, A. El toro de lidia en la pintura. Ganadería [Madrid] 8:630-632. Oct. 1950. 49 G15

37009 MORAN, G. La inteligencia hace campeones. Hacienda 46(2):33-35. Feb. 1951. 6 H11

Crossing of Brahman with other breeds of cattle.

37010 MOSHKINA, A. I. A farm of Istoben [dairy] cattle on Leninskaf Iskra Collective Farm [in Orichiev District, Kirov Region]. (In Russian.) Sotsialist. Zhivotnovod. 12(11):29-32. Nov. 1950. 49 So71

37011 NEWHOOK, J. C. Sterility in dairy cows: how farmers can help in its control. Primary Prod. [Sydney] 23(2):10. Jan. 12, 1951. 23 P93

37012 NILSSON, N. E. Swedish Jersey herds during the year 1950. (In Swedish.) Lantmannen 35:89-91. Feb. 3, 1951. 11 L234

37013 OSPINA LEON, A. Características del ganado Blanco-Orejinegro. Agr. Trop. 6(2):13-19. Feb. 15, 1950. 26 Ag8

37014 PAPI, C. Praise to the true animal tractor. (In Italian.) Gior. di Agr. 61:25-26. Jan. 28, 1951. 16 It1G

Value of cattle of the Maremmana breed for draft purposes.

37015 PETRUCCI, E. The racial composition of the Italian bovine population in an inquiry of the U.N.S.E.A. [Ufficio Nazionale Statistico Economico dell'Agricoltura] as of December 31, 1947. (In Italian.) Allevatore 6 (51/52):5. Dec. 24, 1950. 49 AL55

37016 POWNALL, H. USDA develops warm-weather dairy cattle. Iowa Agr. 49(5):14. Dec. 1950. 6 Io9

37017 RATHORE, A. Differences in the growth of Sindhi and crosses of Sindhi with Jersey, Brown Swiss, Holstein-Friesian, and Guernsey cattle. Iowa State Col. J. Sci. 25:345-347. Jan. 1951. 470 Io9

Abstract of thesis (Ph. D.).

37018 RICHARDS, F. Aberdeen-Angus prove they are made to order for Southwest. Tex. Livestock J. 10:46-47, 50. Jan. 15, 1951. 49 T29

37019 RIGOR, T. V., and PALICTE, L. J. Observations on Red Sindhi cattle. III. The actual milk production. Philippine J. Anim. Indus. 10:269-274. Third Q. 1949, pub. 1950. 49.9 P53P

37020 RODÓN, J. M. La inseminación artificial en las industrias lácteas. Cult. Mod. 33:456. Dec. 1950. 15 C89

37021 ROF CODINA, J. Mejora de la raza vacuna Gallega Rubia. B. de Divulg. Ganad. [Ciudad Real] 5 (52/54):15-21. (To be cont.) July/Sept. 1950. 49.9 Sp14

37022 ROL, C. Rotbunt breeding in Westphalia. (In Dutch.) Stamboek 32:160. Dec. 21, 1950. 43.8 V58

37023 ROPER, N. R. Friesians. New Zeal. Stud-masters' Annu. Rev. 2:28-33. Sept. 1950. 49.7 N48

37024 RUSSEL, M. L. Photographing the Brahman and Zebu; a few helpful pointers on how to catch your animals at their "Sunday best," with your camera and equipment. Zebu J. 2(8):10,40-41. Jan. 1951. 43.8 Z12

37025 SAIZ MORENO, L. Galicia y sus vacas. B. de Divulg. Ganad. [Ciudad Real] 5(52/54):24-27. July/Sept. 1950. 49.9 Sp14

Gallega Rubia Mejorada.

37026 SAUNDERS. British Friesian cattle in 1950. Scot. Farmer 59(spec. album no.):176-180. Jan. 1, 1951. 10 Sco8

37027 SCHAEFER, W. F., JR. Get more years from your herd sire. Hoard's Dairyman 96:163,177. Feb. 25, 1951. 44.8 H65

37028 SCHAFER. Grosser fortschritt bei der hauptkörnung 1950 im Landkreis Kempten. Allgäuer Bauernbl. 19:31-32. Jan. 18, 1951. 18 AL53

Cattle.

37029 SCHMITTER. 25000 kühe des höhenviehs im goldenen ehrenbuch der deutschen rinderzucht eingetragen. Tierzüchter 3:5-9. Jan. 5, 1951. 49 T445

37030 SCHNEIDER, F. Hochtragende kühe in den alkalbestall. Unser Milchvieh. Ausg. A 3(2):6. In Molk.-Ztg. 5(5). Feb. 1, 1951. 44.8 M735

37031 SCIUCHETTI, A. Die künstliche besamung. Schweiz. Braunviehzuchtverband. Mitt. 1950:169-175. Nov. 1950. 43.9 Sch93M

Cattle.

37032 SHORTHORN SOCIETY OF THE UNITED KINGDOM OF GT. BRIT. & IRELAND. Dairy Shorthorn year book for 1948. London, 1951. 831 p. 43.9 D14

37033 SIMONS Q., H. La vaca de raza criolla-panameha. Rev. de Agr. Com. e Indus. [Panama] 8(111/112):22. Nov./Dec. 1950. 8 R3291

37034 SIVCHIK, B. S. Growth peculiarities of the constitution of Kazakh (Kirghiz) cattle and their hybrids under conditions of improved nutrition. (In Russian.) Sovet. Zootekh. 5(12):82-90. Dec. 1950. 49 So822

37035 SIXTENSSON, S. The SRB-breed is a good milk producer; Swedish Red and White cattle during 1950. (In Swedish.) Lantmannen 35:25-27. Jan. 13, 1951. 11 L234

37036 SLOAN, F. A. Red Poll cattle are on the march in the Gulf Coast States. Coastal Cattleman 16(12):23-24. Feb. 1951. 43.8 C63

37037 SOKOL'NIKOV, E. A. Milk production of Aroslav [cattle] breed. (In Russian.) Sotsialist. Zhivotnovod. 12(10):27-33. Oct. 1950. 49 So71

37038 SORIA, G. E. El Aberdeen Angus actual. Chacra 21(240):16-17. Nov. 1950. 9 C34

37039 STEGENGA, T. Artificial insemination in our country in 1949. (In Dutch.) Tijdschr. v. Diergeneesk. 76:109-115. Feb. 1, 1951. 41.8 T431

Cattle.

37040 STEPANENKO, I. A. F. Methods of breeding Kazakh White Head [beef] cattle. (In Russian.) Sovet. Zootekh. 5(11):24-29. Nov. 1950. 49 So822

37041 STRIKWERDA, R. Can excentric implantation in bull spermatozoa be considered a normal type? (In Dutch.) Tijdschr. v. Diergeneesk. 76:180-189. Mar. 1, 1951. 41.8 T431

English summary.

37042 SURRACO, A. M., LOMBARDO, R. A., and LUSIARDO, M. J. Producción de novillos en el Uruguay; contribución a su mejor conocimiento. Uruguay. Dir. de Ganad. B. Mens. 31:335-361. (To be cont.) July/Sept. 1950. 41.9 Ur8

37043 SUTHERLAND, A. Aberdeen-Angus cattle in 1950. Scot. Farmer 59(spec. album no.):162-170. Jan. 1, 1951. 10 Sco8

37044 SUTHERLAND, A. Shorthorn cattle in 1950. Scot. Farmer 59(spec. album no.):152-160. Jan. 1, 1951. 10 Sco8

37045 TAGLE, E. C. Bovinos de carne; su cría. Rev. Ganad. [Habana] 11(3):57-64. (Cont.) Mar. 1951. 49 R321

Shorthorns.

37046 TERRUZZI, F. Does winter sterility exist in cattle? (In Italian.) Agr. Bresclana 4(2):1. Jan. 10, 1951. 16 Ag89



- 37047 THÉRET, M. Insémination artificielle: technique d'examen du sperme de taureau. Rec. de Méd. Vét. 126:749-757. Dec.1950. 41.8 R24
- 37048 TOMSON, C. K. Producing pounds quickly with American Shorthorns. Gulf Coast Cattleman 16(11):36. Jan.1951. 43.8 G95
- 37049 TOMSON, C. K. Shorthorns—over a century of consistent improvement in quality, type and performance. Coastal Cattleman 16(12):18-19,39-40. Feb.1951. 43.8 C63
- 37050 TOMSON, C. K. Shorthorns swinging into the Southwest; modern breed prestige based on practical performance. Tex. Livestock J. 10:70-71. (To be cont.) Jan.15,1951. 49 T29
- 37051 VACHETTE, J. G. Améliorer la production laitière dans le race bovine Charolaise. Paris,Vigot, 1950. 48 p. Ref. 43 V13  
Thesis - Ecole Nationale Vétérinaire d'Alfort.
- 37052 VAN RENSBURG, S. W. J. Pitfalls of artificial insemination and semen examination. So. African Vet. Med. Assoc. J. 21:187-196. Dec.1950. 41.8 So8  
Cattle.
- 37053 VENDÉ, O. D. Sychev breed of [dual purpose] cattle. (In Russian.) Sotsialist. Zhivotnovod. 12(10):58-71. Oct.1950. 49 So71
- 37054 VOLLBRECHT, J. L. Humpbacked heroes; how Brahman cattle, the oldest breed known, are bringing new riches in bigger beef to cattlemen around the world. Breeder-Stockman 12(10):115-117. Mar.1951. 49 V81
- 37055 VOLPINI, A. Cattle breeds under observation: this Modicano! (In Italian.) Allevatore 6(49):3. Dec.10, 1950. 49 AL55
- 37056 VOLPINI, A. Modicano and Sicily; if one means to improve the Modicano by crossing it with the Brown Swiss one would commit the same error that was made when the Modicano was introduced into Sicily. (In Italian.) Allevatore 7(4):4. Jan.28,1951. 49 AL55
- 37057 VOROZHEKIN, I. A. Red Tambov breed of cattle. (In Russian.) Sotsialist. Zhivotnovod. 12(9):55-58. Sept.1950. 49 So71  
Dual purpose cattle.
- 37058 WALLIN, K. How to get the most out of artificial breeding. Hoard's Dairyman 96:249,278. Mar.25, 1951. 44.8 H65
- 37059 WANDHOFF, Vererber- und stammbullenschau in Angeln. Tierzüchter 3:11-12. Jan.5,1951. 49 T445
- 37060 WARD, A. H. Herd improvement. New Zeal. Studmasters' Annu. Rev. 2:14. Sept.1950. 49.7 N48  
Dairy cattle.
- 37061 WILD, L. J. Red Poll cattle. New Zeal. Studmasters' Annu. Rev. 2:35-36. Sept.1950. 49.7 N48
- 37062 WILLETT, E. L., and BUCKNER, P. J. The determination of numbers of spermatozoa in bull semen by measurement of light transmission. J. Anim. Sci. 10: 219-225. Feb.1951. 49 J82
- 37063 WILLEY, N. B., and others. The influence of type on feedlot performance and killing qualities of Hereford steers. J. Anim. Sci. 10:195-202. Feb.1951. 49 J82
- O. D. Butler, J. K. Riggs, J. H. Jones, and P. J. Lyerly, joint authors.
- 37064 WILSON, J. M. Galloway cattle, 1900-1950. Scot. Farmer 59(spec. album no.):52. Jan.1,1951. 10 Sco8
- 37065 WINNIGSTEDT, R. Der typ underer schwarz-bunten kuh—ein vergleich der deutschen zuchtgebiete untereinander und im vergleich zum ausland. Tierzüchter 2:638-642. Dec.20,1950. 49 T445  
Germany.
- 37066 WOLF. Neuordnung der künstlichen besamung bei rindern. Allgäuer Bauernbl. 19:41. Jan.25, 1951. 18 AL53
- Feeds and Feeding
- 37067 ABOL', T. P. Effect of sugar content in feeds on chemical composition of milk of cows. (In Russian.) Sovet. Zootekh. 5(12):39-48. Dec.1950. 49 So822  
Chiefly on feeding root crops.
- 37068 ABRAMENKO, G. I. Experiment in mass milk production of cows on collective farms of Molokov Zoo-Veterinary Section in Moscow Region. (In Russian.) Sovet. Zootekh. 5(12):27-38. Dec.1950. 49 So822  
Care and feeding.
- 37069 ANDRÉ, E., MALTERRE, J., and WILCZYN-SKA, H. Effets d'un régime additionné d'huile de palme sur la production du lait de vache. Acad. d'Agr. de France. Compt. Rend. 36:614-617. Nov.15/22,1950. 14 P215Bc
- 37070 ARNOULD, C. L'abreuvement des vaches laitières. Monit. Agr. 4(145):4. Jan.21,1951. 14 M744
- 37071 AXELSSON, J. Feeding and fertility of cows. (In Swedish.) Ladugården 1950:292-295. Oct.1950. 44.8 L12
- 37072 BACHNER. Eiweiss-stärkeverhältnis im futter und der fettgehalt der milch. Unser Milchvieh. Ausg. A 3(2):1-2. In Molk.-Ztg. 5(5). Feb.1,1951. 44.8 M735
- 37073 BARAT, A. Les ressources fourragères, leur utilisation. Agriculture [Paris] 15(120):7-9. Jan.1951. 14 Ag823  
Feeding of dairy cattle.
- 37074 BARTLEY, E. E. S. Pasturage and environmental temperature effects on the degree of unsaturation of cow milk fat. Iowa State Col. J. Sci. 25:155-157. Jan. 1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 37075 BARTLEY, E. E. S. Results of feeding dairy calves APF supplement containing aureomycin. Feed-stuffs 23(8):18,20. Feb.24,1951. 286.81 F322
- 37076 BERNUTH, W. VON. Wieviel kg milch von 1 ha hauptfutterfläche? Unser Milchvieh. Ausg. A 3(2):4. In Molk.-Ztg. 5(5). Feb.1,1951. 44.8 M735
- 37077 BLOSSER, T. H., and others. The value of wood molasses as a feed for dairy cattle. J. Anim. Sci. 10:163-170. Feb.1951. 49 J82  
G. W. Scott, Jr., R. E. Erb, and A.O. Shaw, joint authors.
- 37078 COBB, W. T. Feeding cattle for market. Gulf Coast Cattleman 16(12):7-8,10. Feb.1951. 43.8 G95
- 37079 CRANZ, K. L. Die zweckmässige ernährung der kuhkälber. Unser Milchvieh 3(1):3. In Molk.-Ztg. 5(1). Jan.4,1951. 44.8 M735
- 37080 CUNHA, T. J. Urea good protein source but care must be used in mixing it. Fla. Cattleman 15(5):38-39. Feb.1951. 43.8 F66
- 37081 DAVIDOV, R. B., and GUL'KO, L. E. Changes in vitamin content of cow's milk during the lactation period. (In Russian.) Sovet. Zootekh. 5(11):88-96. Nov. 1950. 49 So822  
Effect of feeding.
- 37082 DELAGE. Acidité, décalcification, ensilage. (Sum.) Défense Agr. de la Beauce et du Perche 48:36-37. Jan.27,1951. 14 D36  
Silage in dairy cattle nutrition.
- 37083 DUCK, R. W. Keep the dairy calves growing. Rur. New-Yorker 101:146,148. Feb.17,1951. 6 R88  
Correct feeding practices.
- 37084 DURRELL, W. B. A survey of the role of nutrition in sterility of dairy cattle. Canad. J. Compar. Med. 15:1-11. Ref. Jan.1951. 41.8 C162
- 37085 ELLIS, F. E. Feeding from calf to dairy cow. Family Herald & Wk. Star 82(9):9. Mar.1,1951. 7 F21
- 37086 ERCOLI, E. Early and intensive fattening of calves. (In Italian.) Agenzia Romana Note e Inform. Agr. 13:9. Feb.19,1951. 281.8 Ag3
- 37087 FERRANDO, R., GERHARDT, F., and CHAZAL, P. Enquête sur l'alimentation des vaches laitières dans la région de Lyon. Acad. d'Agr. de France. Compt. Rend. 36:633-635. Nov.15/22,1950. 14 P215Bc
- 37088 FERRANDO, R. Les tourteaux dans l'alimentation laitière; influence de la délipidation totale. (Sum.) Oléagineux 6:160-161. Mar.1951. 77.8 OL2
- 37089 GOOCH, J. W. 4-H feeders learn how to keep out of the red. Capper's Farmer 62(4):20,90. Apr.1951. 6 M693  
Chiefly feeding.
- 37090 GRIMM, L. Ohne jungviehweide keine erfolgreiche aufzucht! Bad. Landwirt. Wchnbl. 118:80-81. Feb.10,1951. 18 B142  
Calves and foals.
- 37091 GROW sirloin from citrus. Carolina Co-op. 29(3):16-17,28. Mar.1951. 72.8 N81  
Cannery waste as feed.
- 37092 GUERILLOT-VINET, and others. Effet d'un régime additionné d'huile de palme sur la teneur en carotène et en vitamine A du lait de vache. Acad. d'Agr. de France. Compt. Rend. 36:617-619. Nov.15/22,1950. 14 P215Bc  
Mme. Guerillot-Vinet, H. Wilczynska, R. Baxter, and L. Delmas, joint authors.



- 37093 HANCOCK, J. Grazing habits of dairy cows in New Zealand. *Empire J. Expt. Agr.* 18:249-263. Ref. Oct.1950. 10 Em7
- 37094 HAPP, Kraftfutter im milchviehstall. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:81. Jan.18, 1951. 18 L2346
- 37095 HEYDT, G. Die gewinnung von wirtschaftseligem grünkrafftutter und ihre auswirkungen auf die milch- und landwirtschaft. *Zucker* 3:463-468,485-489. Ref. Nov.1-15,1950. 65.8 Z82
- 37096 HODGES, E. M., KIRK, W. G., and JONES, D. W. Freeze reduces protein in grass, makes careful use of feed almost essential; Range Cattle Station makes recommendations for most economical emergency rations to maintain weights in Florida cattle. *Fla. Cattleman* 15 (5):23. Feb.1951. 43.8 F66
- 37097 HODGES, E. M., KIRK, W. G., and JONES, D. W. Range Station uses both improved and native grass. *Fla. Cattleman* 15(6):36-37. Mar.1951. 43.8 F66
- Range Cattle Experiment Station, Ona, Florida.
- 37098 HODGSON, R. E. Our dairy cows could use more good roughage. *U. S. Bur. Dairy Indus. BDI-Inf* 115,14 p. Feb.1951. 1.973 D4B34
- Talk at meeting of the Association of Southern Agricultural Workers, Memphis, Feb. 6, 1951.
- 37099 IAGOVKIN, A. F. Utilization of sperm whale meal in fattening of calves. (In Russian.) *Sofsiolist. Zhivotnovod.* 12(9):21-23. Sept.1950. 49 So71
- 37100 JOHNSON, B. C., and others. Choline deficiency in the calf. *J. Nutr.* 43:37-48. Ref. Jan.10,1951. 389.8 J82
- H. H. Mitchell, J. A. Pinkos, and C. C. Morrill, joint authors.
- 37101 JONES, W. R. The use of citrus peel as a supplementary cattle feed. *Agr. Soc. Trinidad & Tobago. Proc.* 50:257-258. Sept.1950. 8 T73
- 37102 JORDAN, R. M., and STAPLES, G. E. Digestibility comparisons between steers and lambs fed prairie hays of different quality. *J. Anim. Sci.* 10:236-243. Feb. 1951. 49 J82
- 37103 KACHMAR, J. F., and others. Vitamin E in the nutrition of cattle. II. *J. Nutr.* 42:391-403. Ref. Nov.10,1950. 389.8 J82
- P. D. Boyer, T. W. Gullickson, E. Liebe, and R. M. Porter, joint authors.
- 37104 KLOSTERMAN, E. W., BOLIN, D. W., and FORD, K. D. Vitamin A studies with beef cattle. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:115-118. Jan./Feb.1951. 100 N813B
- 37105 LEVANTIN, D. L. Effect of feeding on meat production of young [beef] cattle. (In Russian.) *Miasnaia Indus. SSSR.* 21(4):81-85. July/Aug.1950. 50.8 M58
- 37106 LEVANTIN, D. L. Effect of nutrition level on growth, development and meat production of Simmental young [cattle]. (In Russian.) *Sovet. Zootekh.* 5(11):52-62. Nov.1950. 49 So822
- 37107 LOFGREEN, G. P., LOOSLI, J. K., and MAYNARD, L. A. Comparative study of conventional protein allowances and theoretical requirements of growing Holstein heifers. *J. Anim. Sci.* 10:171-183. Ref. Feb. 1951. 49 J82
- 37108 MACKINTOSH, J. Iodinated protein can be used to force up the milk yield, but such things are dangerous. *Farmer & Stock-Breeder* 65:643,645. Feb.27,1951. 10 F228
- 37109 MCMILLAN, W. D. Top quality roughage ups milk production. *G. L. F. Week. Serv. Sched.* 15(34):3. Feb.26,1951. 280.28 G113W
- 37110 MAN, T. J. DE. Feeding experiment on calves with hydrogenated soybean oil (preliminary communication). (In Dutch.) *Tijdschr. v. Diergeneesk.* 76:175-178. Mar.1,1951. 41.8 T431
- 37111 MANTILLARO, R. Variations of the content in chlorine of cow colostrum before and after parturition. 3-4. (In Italian.) *Mondo del Latte* 1950:661-662, 665-669. Dec.1950. 44.8 M74
- English summary.
- 37112 MARTIN, M. Alimentez mieux vos vaches lattieres! *Nord Agr.* 7(9):2. Dec.29,1950. 14 N75
- 37113 MOLFENTER, W. Was ist bei der verfütterung von gärfutter zu beachten? Unser Milchvieh 3(1):4. *In Molk.-Ztg.* 5(1). Jan.4,1951. 44.8 M735
- 37114 MOORE, L. A. New ideas on protein in dairy-cow rations. *U. S. Bur. Dairy Indus. BDI-Inf* 116,3 p. Mar.1951. 1.973 D4B34
- 37115 MOORE, L. A. New values in good hay and silage for dairy cows. *U. S. Bur. Dairy Indus. BDI-Inf* 117,10 p. Mar.1951. 1.973 D4B34
- 37116 NELSON, G. New drug helps calves get off to good start. *Kans. Agr. Student* 27(2):25. Dec.1950. 276.8 K13
- Aureomycin in feed.
- 37117 NELSON H., S. Alimentación de terneros con amas. *Chacra* 21(240):19. Nov.1950. 9 C34
- 37118 NEVENS, W. B. Feeding the dairy herd. III. *Agr. Col. Ext. C.* 677,36 p. Feb.1951. 275.29 IL62C
- A revision of Circular 502.
- 37119 PESHKOV, A. N. From practices of fattening [beef] cattle on the collective farms in Chkalov Region. (In Russian.) *Sofsiolist. Zhivotnovod.* 12(9):67-71. Sept. 1950. 49 So71
- 37120 PETUNIN, F. A., MANZHOS, M. D., and PONOMAREVA, N. L. Testing the toxicity of feeds which were dusted with DDT. (In Russian.) *Veterinariia* 27(10):36-37. Oct.1950. 41.8 V6426
- Experiments with cattle and sheep.
- 37121 QUICKE, G. V., PHILLIPS, P. H., and DREHER, W. H. An all-roughage ration for bulls. *J. Dairy Sci.* 33: 870-877. Ref. Dec.1950. 44.8 J822
- 37122 RIGGS, J. K., COLBY, R. W., and PARHAM, A. P. Hydraulic-processed vs. solvent-extracted cottonseed meal for wintering beef cows. *Tex. Livestock J.* 10: 11,16. Jan.15,1951. 49 T29
- 37123 ROSS, O. B. Protein supplements for beef cattle. (Excerpts.) *Grain & Feed J. Consolidated* 106(4): 27-28. Feb.28,1951. 298.8 G762
- 37124 RUFIN, G. L'alimentation du bétail. *Jura Agr. (n.s.)* 67:1. Jan.15,1951. 14 J97
- Dairy cattle.
- 37125 RUPP, R. G. 52 years of cattle feeding. *Farmer [St. Paul] Gen. Ed.* 69(5):1,24. Mar.3,1951. 6 F2211
- 37126 SCHNEIDER, B. H. Silage for beef cattle. *Amer. Hereford J.* 41(22):110-111. Mar.15,1951. 43.8 Am32
- 37127 SEMAK, I. L. Fattening and meat characteristics of the principal breeds of [beef] cattle in Ukraine. (In Russian.) *Sovet. Zootekh.* 5(12):20-26. Dec.1950. 49 So822
- 37128 SHARAR, S. The ration for cattle including maize silage. (In Hebrew.) *Hassadeh* 31:38. Oct.1950. 26 H27
- 37129 SHARP, W. Nutrition and reproduction; minerals in proper ratio a "must" in livestock feeding—calcium and phosphorus most essential. *Amer. Hereford J.* 41(20):64,113. Feb.15,1951. 43.8 Am32
- 37130 SMITH, J. G. Texas F. F. A. swings toward commercial [beef cattle] feeding. *Future Farmer* 23(7): 10-11,15. Feb.1951. 4 F983
- 37131 SMITH, L. A. Cruelty to cow and calf. *Farm & Gard. Digest* 2(7):26-28. Dec.1950. 56.8 Or32
- Artificial feeding of calves.
- 37132 SMITH, S. E., and others. Salt studies with dairy cattle. *Grain & Feed Rev.* 40(5):18. Jan.1951. 280.28 G78
- P. D. Aines, F. W. Lengemann, and K. L. Turk, joint authors.
- 37133 SOLUN, A. S., and MELFUKOV, A. N. Rational methods of feeding high-productive dairy cattle. (In Russian.) *Veterinariia* 27(10):34-35. Oct.1950. 41.8 V6426
- 37134 TALLARICO, G. About the influence of fodder upon the quality of milk secretion. 1. (In Italian.) *Mondo del Latte* 1950:649,651-652. Dec.1950. 44.8 M74
- English summary.
- 37135 TYRER, T. G. Lucerne the answer; butterfat production on the Galatea pumice lands. *New Zeal. Dairy Exporter* 25(12):8-9,11-13. June 1950. 44.8 N484
- 37136 ULVESLI, O. Experiments with raw potatoes and silage of raw potatoes for dairy cattle. (In Norwegian.) *Norsk Landbr.* 17:42-46. Feb.2,1951. 11 N8122
- 37137 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. More beef from heavier calves, by T. C. Byerly, R. Hodgson and M. Bliss. Washington, 1951. 4 p. 1.914 R2R11
- Chiefly feeding.
- 37138 VALDINOCI, M. Proper feeding of livestock: industrial residues in the fattening of cattle. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 6:9. Jan.24,1951. 281.8 Ag3



- 37139 VANPELT, D. H. Bulk up your dairy ration. East. Feed Merchant 2(3):24-25,60-61. Mar.1951. 389.78 Ea7  
Feed concentrates.
- 37140 VOGEL, H. Die fütterung des milchviehs in Bayern. Landwirt. Jahrb. f. Bayern 27(7/8):36-90. Nov./Dec.1950. 18 L24
- 37141 WALLIS, G. C. Feeding the dairy cow for milk production. Feedstuffs 23(6):38-39,42,44-46. Feb.10, 1951. 286.81 F322
- 37142 WARD, A. L. Self-feeding mixtures of cottonseed meal, salt. Cotton Gin & Oil Mill Press 52(6):17. Mar.17,1951. 304.8 C822  
Beef cattle.
- 37143 WEIHING, R. M., MONCRIEF, J. B., and DAVIS, W. C. Year-long grazing in the rice-pasture farming system. Coastal Cattleman 16(12):30-31,45. Feb.1951. 43.8 C63
- 37144 WILLIAMS, J. B., and KNOTT, C. B. APF supplements in milk replacements for dairy calves. J. Anim. Sci. 10:144-148. Ref. Feb.1951. 49 J82
- 37145 WILSON, J. L., and GRENIER, O. E. Rations fed to milk cows. Flour & Feed 51(10):10,35. Mar.1951. 298.8 F66
- 37146 WISE, G. H. Some errors frequently made in the formulation of dairy rations. (Excerpts.) Grain & Feed J. Consolidated 106(3):31,34-36. Feb.14,1951. 298.8 G762
- 37147 WITTMANN, H. Die mittagsfütterung im herbst, winter und frühjahr bringt keinen nutzen. Milcherzeuger 8:48. Dec.1950. 43.8 M592
- Veterinary Medicine
- 37148 ANDERSON, E. E. Penicillin treatment for mastitis. N. Mex. Stockman 16(3):55. Mar.1951. 49 N462  
Dairy cattle.
- 37149 ANDERSSON, B. On the neuro hormonal control of the letting down of milk. (In Swedish.) Nord. Vetmed. 3:29-39. Ref. Jan.1951. 41.8 N813  
English summary.
- 37150 BAILEY, J. W. Isolate and be sure—sometimes single test doesn't reveal facts. South. Livestock J. 10(8):70. Mar.1951. 43.8 F66A  
Brucellosis diagnosis in cattle.
- 37151 BAILEY, J. W. Maintaining a Bang's-free herd. South. Livestock J. 10(8):60. Mar.1951. 43.8 F66A
- 37152 BAILEY, J. W. That "expecting" cow. Hoard's Dairyman 96:272. Mar.25,1951. 44.8 H65  
Care.
- 37153 BAILEY, J. W. Winter skin troubles. Guernsey Breeders' J. [Peterborough] 81:493. Feb.21,1951. 43.8 G93
- 37154 BAKER, E. T. Allergies in cattle. Amer. Hereford J. 41(21):142. Mar.1,1951. 43.8 Am32
- 37155 BAKER, E. T. Blackleg. Amer. Hereford J. 41(22):144-145. Mar.15,1951. 43.8 Am32
- 37156 BAKHTOV, S. G. On the reaction of pregnant cows to the cutaneous reflex. (In Russian.) Veterinariia 27(10):48-50. Oct.1950. 41.8 V6426  
In pregnancy diagnosis.
- 37157 BANKS, W. C., and TURK, R. D. Control of stomach worms and liver flukes in cattle and sheep. Tex. Agr. Col. Ext. C. 287,8 p. Jan.1950. 275.29 T312C  
Chiefly Haemonchus contortus and Ostertagia ostertagi.
- 37158 BASSET, J. Vaches laitières et B. C. G. Rev. de Méd. Vét. [Toulouse] 101:396-398. Aug./Sept.1950. 41.8 R32
- 37159 BATTE, E. G., SWANSON, L. E., and MURPHY, J. B. Control of fresh water snails (intermediate hosts of liver flukes) in Florida. Amer. Vet. Med. Assoc. J. 118:139-141. Mar.1951. 41.8 Am3  
In cattle.
- 37160 BECKER, R. B., ARNOLD, P. T. D., and MARSHALL, S. P. Changes in weight of the reproductive organs of the dairy cow and their relation to long-time feeding investigations. J. Dairy Sci. 33:911-917. Ref. Dec. 1950. 44.8 J822
- 37161 BELL, W. B., and JORDAN, H. E. Aureomycin therapy in acute staphylococcal mastitis. Vet. Med. 46: 134-135. Apr.1951. 41.8 M69  
Cattle infected with Micrococcus pyogenes aureus.
- 37162 BELLEZA, W. Bovine piroplasmiasis. (In Portuguese.) Biológico 16:202-203. Oct.1950. 442.8 B529  
Transmitted by Boophilus microplus.
- 37163 BERNARD, C. Sur un syndrome ictéro-hémoglobinurique des bovins observé en Algérie. Inst. Pasteur d'Algérie. Arch. 28:335-338. Sept.1950. 448.3 In7A
- 37164 BINNS, W. Traumatic gastritis in a bull. No. Amer. Vet. 32:159. Mar.1951. 41.8 N812
- 37165 BLASCHKE, F. Blutungen bei der sterilitäts-therapie des rindes. Berlin. u. Münch. Tierärztl. Wchnschr. 1951:39-40. Feb.1951. 41.8 B45
- 37166 BORRELLI, G. The addresses of Prof. Goetze and his school on the care of sterile cattle. (In Italian.) Prog. Vet. 6:47-48,50-51. Jan.15,1951. 41.8 P942
- 37167 BORSETTO, P. The stroma of the cardiac conduction system in the bovine race and its behaviour in the different ages. (In Italian.) Riv. di Biol. (n.s.) 42:461-476. Ref. Oct./Dec.1950. 442.8 R52  
English summary.
- 37168 BOZHEVOL'NOV, P. I. Early diagnosis of mastitis in cows with a universal indicator. (In Russian.) Sovetsk. Zhivotnovod. 12(10):95-96. Oct.1950. 49 So71
- 37169 BRENNAN, A. D. J. The eradication of [bovine] tuberculosis, with particular reference to South Wales. Vet. Rec. 63:177-179. Mar.10,1951. 41.8 V641
- 37170 BRESSOU, C., DRIEUX, H., and BLIN, P. Métaplasie épithéliale sur un estomac de bœuf. Rec. de Méd. Vét. 126:711-716. Dec.1950. 41.8 R24
- 37171 BRION, A. La vaginite granuleuse; ses incidences sur la stérilité. Bétail & Basse-Cour 6:28. Jan. 1951. 49 B462
- 37172 BRYAN, H. S., and BOLEY, L. E. Aureomycin in the treatment of bovine brucellosis. Vet. Med. 46:158-159. Apr.1951. 41.8 M69
- 37173 CATARRO, M. P. Campaign for dairy cattle health on Terceira Island. (In Portuguese.) Azores. Comis. Regulad. dos Cereais. B. 7(13):93-95. First Semes.1951. 15 Az6
- 37174 CAZENAVE, M. La fièvre brucellique. Rev. de Méd. Vét. [Toulouse] 101:406-410. Aug./Sept.1950. 41.8 R32  
Cattle.
- 37175 CHUNG, A. C., SAARINEN, P., and SHAW, J. C. A comparison of the Allen volumetric blood fat procedure with an extraction procedure. J. Dairy Sci. 33:918-921. Ref. Dec.1950. 44.8 J822  
In cattle.
- 37176 CROCKER, U. T. Arsenical poisoning in cattle. Auburn Vet. 7:90-92. Winter 1951. 41.8 Aul
- 37177 DELGADO, M. M. Anthrax visits central Luzon. Philippine Livestock Mag. 6,i.e.1:286-288. Oct./Nov.1950. 49 P53  
In carabaos.
- 37178 DONALD, H. P. Bovine five-egg quintuplets. Vet. Rec. 63:179-180. Mar.10,1951. 41.8 V641
- 37179 DONATIEN, A., and GAYOT, G. La leptospirose bovine en Algérie. Inst. Pasteur d'Algérie. Arch. 28:339-344. Ref. Sept.1950. 448.3 In7A
- 37180 DOORME, H. Bovine tuberculosis and its control. (In Dutch.) Gent. Landhogesch. Meded. 15:458-514. June 1950. 105.1 G344  
English summary.
- 37181 EASTERBROOK, L. F. Britain's new plan aims at eradication of T.B. in all dairy herds in fifteen year period. New Zeal. Dairy Exporter 25(12):51-52. June 1950. 44.8 N484
- 37182 FEDERICO, G. Contribution to a consideration of the vitamin B<sub>1</sub> cure for malignant catarrhal fever in cattle. (In Italian.) Clin. Vet. 74:16-17. Jan.1951. 41.8 C61
- 37183 FERRIOLS, V., GENEROSO, J. D., and CORONEL, A. B. Rinderpest in the Philippines. Philippine J. Anim. Indus. 10:289-306. Ref. Third Q.1949, pub. 1950. 49.9 P53P
- 37184 GALLINA, L. More on puerperal collapse. (In Italian.) Clin. Vet. 74:14-16. Jan.1951. 41.8 C61  
Cattle.
- 37185 GERBER, E. Über die rinder-reste aus den keltisch-römischen niederlassungen der engelhalbinsel bei Bern. Rev. Suisse de Zool. 58:1-22. Ref. Jan.1951. 410 R324  
Measurements of bones.
- 37186 GIBBONS, W. J. Problems in cattle practice. Kans. Vet. Med. Assoc. Proc. 46:98-108. 1950. 41.9 K133
- 37187 GIBBONS, W. J. Sterility in cattle. Kans. Vet. Med. Assoc. Proc. 46:73-84. 1950. 41.9 K133



- 37183 GLOVER, F. A., and BLAIR, G. W. S. Bovine sterility and pregnancy in relation to the rheological properties of cervical secretions. *Nature* [London] 167: 285. Feb. 17, 1951. 472 N21
- 37189 GOOD, G. H., and KINGMAN, H. E. Brucellosis. *Cow Country* 78(7):7, 19. Jan. 15, 1951. 49 C83 Cattle.
- 37190 GRAMATZKI. Nochmals: Der rübenblattdurchfall des rindes. *Deut. Tierärztl. Wchnschr.* 57:400. Dec. 15, 1950. 41.8 D482
- 37191 GRIFFITHS, H. J., and HADLOW, W. J. A report of bovine anaplasmosis in Minnesota. *Amer. Vet. Med. Assoc. J.* 118:158-160. Mar. 1951. 41.8 Am3
- 37192 GRIFFITHS, R. B. A review of the incidence of *Cysticercus bovis* in cattle in Great Britain, together with a consideration of some aspects of *Taenia saginata* infection in man. *Ann. Trop. Med. & Parasitol.* 44:357-360. Ref. Dec. 1950. 44.8.9 L75A
- 37193 HANSENS, E. J. Mange on dairy cattle. *N. J. Agr. Col. Ext. L.* 46, 2 p. Dec. 1950. 275.29 N46L
- 37194 HARNACH, R. The influence of fermented specific antigen upon tuberculosis. (In Czech.) *Časopis Českoslov. Vet.* 5:480-482. Nov. 10, 1950. 41.8 C27 French summary.
- Experiments with guinea pigs and cattle.
- 37195 HARRISON, E. S. It's acetoneemia time. *Holstein-Friesian World* 48:247-248. Feb. 3, 1951. 43.8 H742
- 37196 HARSHFIELD, G. S. Sporadic bovine encephalitis, a new cattle disease in South Dakota. *S. Dak. Farm & Home Res. [S. Dak. Sta.]* 2:43-44. Winter 1951. 100 So82S
- 37197 HENRIKSSON, A. Milk fever and feeding. (In Swedish.) *Lantmannen* 34:956. Dec. 9, 1950. 11 L234 Cattle.
- 37198 HENRIKSSON, A. Observations on this year's cases of bloat. (In Swedish.) *Ladugården* 1950:310-311. Oct. 1950. 44.8 L12
- In cattle.
- 37199 HESSE, N. C. W., and MIDDELKOOP, A. P. Intestinal torsion in cattle. (In Dutch.) *Tijdschr. v. Diergeneesk.* 76:156-160. Feb. 15, 1951. 41.8 T431 English summary.
- 37200 HOW I handle retained placentae (bovine) in my practice. *Jen-Sal J* 1951:4-8, 25. Mar. 1951. 41.8 J45
- Symposium by E. E. Chambers, D. E. Trump, J. W. Thimmig, and S. Elmer.
- 37201 HUGHES, T. Countywide mastitis control. *Fla. Grower* 59(3):26, 31. Mar. 1951. 80 F6622
- 37202 ILLINOIS STATE VETERINARY MEDICAL ASSOCIATION. SPECIAL COMMITTEE ON BOVINE MASTITIS. Report. *Vet. Med.* 46:133, 142. Apr. 1951. 41.8 M69
- H. P. Wessels, chairman.
- 37203 IUSKOVETS, M. K. Data on vaccination of cows and heifers against brucellosis. (In Russian.) *Veterinariia* 27(10):14-18. Oct. 1950. 41.8 V6426
- 37204 IYENGAR, H. N. C. Anatomical deviations. *Indian Vet. J.* 27:182-185. Nov. 1950. 41.8 In2 Cattle.
- 37205 JÍLEK, J. A particular intoxication in cattle. (In Czech.) *Časopis Českoslov. Vet.* 5:458. Oct. 10, 1950. 41.8 C27
- 37206 JOCKERS. Kampf der rinder-Tbc! *Bauern Ztg.* 3:535-536. Nov. 10, 1950. 18 B324 Germany.
- 37207 JÖHNK, M. Über fetale schiefagen und zwillingsgeburten beim rind. *Berlin u. Münch. Tierärztl. Wchnschr.* 1951:4-9. Jan. 1951. 41.8 B45
- 37208 JOHNSON, H. W. Recent research and field findings which assist the [bovine] TB eradication program. *Kans. Vet. Med. Assoc. Proc.* 46:55-59. 1950. 41.9 K133
- 37209 JOHNSON, K. L. A case of parturient hemoglobinemia in Fresno County of California. *Calif. Vet.* 4(3):24-25. Jan./Feb. 1951. 41.8 C12 Cattle.
- 37210 KOCH, W., and MOHR, W. Der einfluss des follikelhormons auf die beckenbänder; versuche an männlichen tieren. *Monatsh. f. Prakt. Tierheilk.* 2:369-371. 1950. 41.8 M74 Cattle.
- 37211 KOHOUT, F., JR. Lost—seven cows. *Kraftsman, Prod. Ed.* 1951:6. Jan./Feb. 1951. 44.8 K85
- Poisoning from licking sodium nitrate fertilizer.
- 37212 KÜBITZ. Ohne mühe keine kühe! Die euterentwicklung beim kalb und ihr verhältnis zur späteren milchkuhleistung. *Bauern Ztg.* 3:613-614. Dec. 15, 1950. 18 B324
- 37213 LANCASTER, J. E., and STUART, P. Further experimental infections of the bovine udder with *Streptococcus agalactiae*. *Vet. Rec.* 63:141-145. Feb. 24, 1951. 41.8 V641
- 37214 LEONHARDT, H. Rinderpflichtuntersuchung und bekämpfung der trichomonadenkrankheit. *Monatsh. f. Vetmed.* 6:9-11. Jan. 1, 1951. 41.8 M742
- 37215 LINON, G. La tuberculose bovine. *Agr. Prat.* 115:9-12. (Concl.) Jan. 1951. 14 J82
- 37216 LO, H. K., SAARINEN, P., and SHAW, J. C. The validity of the Allen volumetric procedure for the determination of blood lipids of cows on different feeding regimes. *J. Dairy Sci.* 33:922-924. Dec. 1950. 44.8 J822
- 37217 MCCOY, J. E., and ENSMINGER, M. E. Bloat [in cattle]. *Wash. State Col. Ext. C.* 121, 3 p. Dec. 1950. 275.29 W27K
- 37218 MCCULLOUGH, N. B., EISELE, C. W., and BYRNE, A. F. Incidence and distribution of *Brucella abortus* in slaughtered Bang's reactor cattle. *Pub. Health Rpt.* 66:341-345. Mar. 16, 1951. 151.65 P96
- 37219 MAGNUS, H. Über die nutzungsdauer des rindes. *Monatsh. f. Vetmed.* 6:21-23. Jan. 15, 1951. 41.8 M742
- 37220 MARES, R. G. A note on the Somali method of vaccination against contagious bovine pleuropneumonia. *Vet. Rec.* 63:166. Mar. 3, 1951. 41.8 V641
- 37221 MARION, G. B., and others. The effect of sterile copulation on time of ovulation in dairy heifers. *J. Dairy Sci.* 33:885-889. Ref. Dec. 1950. 44.8 J822
- V. R. Smith, T. E. Wiley, and G. R. Barrett, joint authors.
- 37222 MASTITIS and dispensing under veterinary supervision. *No. Amer. Vet.* 32:153-159. Mar. 1951. 41.8 N812
- Opinions from thirteen veterinarians on the practice of instructing clients in the use of bougies and ointment-tube medication for early bovine infections.
- 37223 MEITES, S., BURRELL, R. C., and SUTTON, T. S. Factors influencing the in vitro digestion of cellulose by [bovine] rumen liquor in the presence of an antiseptic. *J. Anim. Sci.* 10:203-210. Feb. 1951. 49 J82
- 37224 MIDDELKOOP, A. P. Inversio vesicae urinae in cattle. (In Dutch.) *Tijdschr. v. Diergeneesk.* 76: 115-117. Feb. 1, 1951. 41.8 T431 English summary.
- 37225 MUKHERJEE, R., and MITCHELL, H. H. The basal energy and nitrogen metabolism of dairy calves in hyperthyroidism induced by thyroprotein administration. *J. Anim. Sci.* 10:149-162. Ref. Feb. 1951. 49 J82
- 37226 MURTY, G. N. Schistosomiasis in cattle. *Indian Vet. J.* 27:204-205. Nov. 1950. 41.8 In2
- 37227 NEAVE, R. M. S. An outbreak of ulcerative lymphangitis in young heifers in Kenya. *Vet. Rec.* 63:185. Mar. 10, 1951. 41.8 V641
- Corynebacterium equi* isolated from lesions.
- 37228 NEDSTRÖM, T. Control of infectious abortion in this province. (In Swedish.) *Blekinge Läns Hushållsk. Tidskr.* 1950:69-72. 11 B61 Cattle.
- 37229 NIKOLAEV, V. A. Experiments in using live vaccine [*Brucella suis* strain 22] in brucellosis control [in cattle]. (In Russian.) *Veterinariia* 27(10):19-20. Oct. 1950. 41.8 V6426
- 37230 PEETERS, G., and COUSSENS, R. The influence of the milking act on the diuresis of the lactating cow. *Arch. Internat. de Pharmodyn. et de Thé.* 84:209-220. Ref. Dec. 1, 1950. 44.8 Ar226
- 37231 PERZADAEV, O. P. Experiment in treatment of enzootic bronchopneumonia in calves. (In Russian.) *Sofsiatist. Zhivotnovod.* 12(10):93-95. Oct. 1950. 49 So71
- 37232 PETERSEN, W. E. The physiology and biochemistry of lactation. *Certif. Milk* 26(3):6-9. (To be cont.) Mar. 1951. 44.8 C33
- 37233 PETERSON, D. R. Nerve block of the eye and associated structures. *Amer. Vet. Med. Assoc. J.* 118: 145-148. Mar. 1951. 41.8 Am3
- In bovine surgery.
- 37234 PICHEV, D. La traitement de l'endométrite chronique bovine par l'emploi des sulfonamides. (In Bulgarian.) *Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis.* 18(2):123-132. Ref. 1950. 106.3 R32 French summary.



- 37235 **PIERCY, S. E.** A comparison of blackquarter vaccines. *Brit. Vet. J.* 107:63-75. Feb. 1951. 41.8 V643
- 37236 **PLATA GUERRERO, R.** La mortalidad de los ganados en El Valle. *Rev. Agr. y Ganad.* 12(130):2-3. Nov. 1950. 9.4 R327
- Cattle.**
- 37237 **PUSTÓWKA, Z.** From the casuistics of morbid anatomy. (In Polish.) *Med. Weter.* 6:477. Aug. 1950. 41.8 M463
- Calf with eight legs; pig with two legs.**
- 37238 **RACKOW, H. G.** Die antibiotika in der galt- und abortus-Bang-bekämpfung (eine literaturstudie). *Monatsh. f. Prakt. Tierheilk.* 2:332-341. Ref. (To be cont.) 1950. 41.8 M74
- 37239 **REFUERZO, P. G., and ACASIO, E. E.** Infectious keratitis (pink eye) of cattle—its treatment. *Philippine J. Anim. Indus.* 10:261-265. Third Q. 1949, pub. 1950. 49.9 P53P
- 37240 **ROBERTS, F. H. S., O'SULLIVAN, P. J., and RIEK, R. F.** The significance of faecal egg counts in the diagnosis of parasitic gastro-enteritis of cattle. *Austral. Vet. J.* 27:16-18. Jan. 1951. 41.8 Au72
- 37241 **ROBERTS, S. J., and DYE, J. A.** The treatment of acetoneemia in cattle by continuous intravenous injection of glucose. *Cornell Vet.* 41:3-10. Jan. 1951. 41.8 C81
- 37242 **ROBINSON, R. S.** Vaccination for brucellosis being promoted. *S. Dak. Stockgrower* 4(12):11. Jan. 15, 1951. 49 So84
- Cattle.**
- 37243 **ROMITI, R.** Daily temperature curve and homiothermism in cattle. (In Italian.) *Clin. Vet.* 74:1-9. Jan. 1951. 41.8 C81
- 37244 **RUIZ MARTINEZ, C.** Mastitis de la vaca. *Indus. Lech.* 32:481-482, 484-488. (Cont.) Sept. 1950. 44.8 In26
- 37245 **SAARINEN, P., and others.** Partition of orally administered radioactive phosphorus in the blood and milk of the dairy cow. *J. Dairy Sci.* 33:878-884. Ref. Dec. 1950. 44.8 J822
- C. L. Comar, S. P. Marshall, and G. K. Davis, joint authors.**
- 37246 **SALAFRANCA, E. S.** Indian hardware in the stomach of a Red Sindhi cow. *Philippine J. Anim. Indus.* 10:285-286. Third Q. 1949, pub. 1950. 49.9 P53P
- 37247 **SASTRY, G. A.** Retention of placenta and its treatment by homeopathy. *Indian Vet. J.* 27:198-200. Ref. Nov. 1950. 41.8 In2
- Cattle and buffaloes.**
- 37248 **SCHAEZT, F.** Zum problem der endometritis des rindes. *Monatsh. f. Prakt. Tierheilk.* 2:321-331. 1950. 41.8 M74
- 37249 **SCHEU, O.** Serologische untersuchungen von tierseren anlässlich einer menschlichen Q-fieber-epidemie. *Berlin u. Münch. Tierärztl. Wchnschr.* 1951: 16-18. Ref. Jan. 1951. 41.8 B45
- Cattle and goats.**
- 37250 **SCHNEIDER, F. L.** Brucellosis in New Mexico cattle. *N. Mex. Stockman* 16(3):81, 83. Mar. 1951. 49 N462
- 37251 **SCHÜRCH, T.** Das verhalten katarrhalisch erkrankter euterviertel nach tilgung der euterinfektion. *Schweiz. Milchztg.* 77:85-87, 89-90. Feb. 16, 1951. 44.8 Sch92
- 37252 **SEN GUPTA, K. C., and VERMA, N. S.** Rinderpest in wild ruminants. *Indian J. Vet. Sci. & Anim. Husb.* 19:219-224. Sept. 1949, pub. 1950. 41.8 In22
- Deer and antelopes.**
- 37253 **SERGENT, E., and PARROT, L.** Premunition in bovine piroplasmosis and human malaria. *Ann. Trop. Med. & Parasitol.* 44:329-330. Dec. 1950. 44.8 L75A
- 37254 **SIPPEL, W. L.** "Trike"—a disease that could cause your breeding problems; breeders who have problems of getting cows settled could find that their troubles in trichomoniasis—a disease that is not widespread but present and curable. *South. Livestock J.* 10(7):8, 48, 50. Feb. 1951. 43.8 P66A
- 37255 **STAPLES, G. E., and DINUSSON, W. E.** A comparison of the relative accuracy between seven-day and ten-day collection periods in digestion trials. *J. Anim. Sci.* 10:244-250. Ref. Feb. 1951. 49 J82
- Experiments with calves.**
- 37256 **STOENNER, H. G.** Experimental Q fever in cattle—epizootologic aspects. *Amer. Vet. Med. Assoc. J.* 118:170-174. Ref. Mar. 1951. 41.8 Am3
- 37257 **STRZELECKI, B.** Lesions of the mediastinal lymph nodes as the cause of the bloating of rumen in cattle. (In Polish.) *Med. Weter.* 6:476-477. Aug. 1950. 41.8 M463
- 37258 **SZCZUDŁOWSKI, K.** Experimental studies with the instruments for surgical removal of papilloma. (In Polish.) *Med. Weter.* 6:470-473. Aug. 1950. 41.8 M463
- English summary.**
- Cows.**
- 37259 **TASSINARI, R.** How cattle are infected with trichomoniasis. (In Italian.) *Allevatore* 6(51/52):3. Dec. 24, 1950. 49 AL55
- 37260 **TAVERNIER, H.** Actinobacillose. *Rev. de Méd. Vét. [Toulouse]* 101:399-405. Aug./Sept. 1950. 41.8 R32
- Cattle.**
- 37261 **THEELEN, G.** Inspección a las estancias de Yacuma; recomimiento veterinario del potencial ganadero; implantación del sistema de la inseminación artificial. *Campo [La Paz]* 4(44):49, 51, 53-54. Dec. 1950. 9.1 C15
- Cattle ranches.**
- 37262 **TOMPERT, H.** Die bedeutung der exposition für die verbreitung der rindertuberkulose, untersucht am unterschiedlichen verseuchungsgrad der altersstufen bei männlichen und weiblichen rindern. *Tierärztl. Umschau* 6:39-44. Feb. 1951. 41.8 T445
- 37263 **TYRER, T. G.** If you ration pasture in narrow strips, will it provide bloat control? *New Zeal. Dairy Exporter* 26(7):6-7, 9, 11. Jan. 1951. 44.8 N484
- 37264 **U. S. LIVESTOCK SANITARY ASSOCIATION. COMMITTEE ON BRUCELLOSIS.** Report presented to annual meeting November 2, 1950. n.p., 1950. 6 p. 41.9 Un38
- R. L. West, chairman.**
- Chiefly in cattle.**
- 37265 **VEILLEUX, J. M.** Brucellose bovine. *Digeste de l'Elevéur* 5(5):23-26. Jan. 1951. 49 D56
- 37266 **VIANELLO, G.** Actinomycosis of cattle and swine. (In Italian.) *Humus* 6(12):29-30. Dec. 1950. 16 H88
- 37267 **WATT, J. A.** Bovine keratitis associated with *Moraxella* (*Haemophilus*) *bovis*. *Vet. Rec.* 63:98-99. Ref. Feb. 10, 1951. 41.8 V641
- 37268 **WEAVER, E., HORWOOD, R. E., and SMILEY, E. S.** Losses of calves in dairy herds. *Holstein-Friesian World* 48:467-468, 558. Mar. 3, 1951. 43.8 H742
- 37269 **WELLS, E. A.** Reactions in cattle after vaccination with lapinised rinderpest virus. *Vet. Rec.* 63:165-166. Mar. 3, 1951. 41.8 V641
- 37270 **WHITE, E. A.** A therapeutic approach to winter dysentery in dairy cows. *Vet. Med.* 46:160. Apr. 1951. 41.8 M69
- 37271 **WHITE, I. G.** A comparison of blood constituents in identical and fraternal twin calves. *Austral. Vet. J.* 27:1-7. Ref. Jan. 1951. 41.8 Au72
- 37272 **WILLE, R.** Die zukünftige bekämpfung der rindertuberkulose. *Tierzucht* 3:36-37. May 1950. 49 T443
- 37273 **WILLETT, E. L., and others.** Successful transplantation of a fertilized bovine ovum. *Science* 113:247. Mar. 2, 1951. 470 Sci2
- W. G. Black, L. E. Casida, W. H. Stone, and P. J. Buckner, joint authors.**
- 37274 **WRIGHT, N.** Lumpy-jaw in cattle: (an addition). *Canad. Cattleman* 14(2):28-29. Feb. 1951. 49 C16
- Also on trichomoniasis.**
- 37275 **WRIGHT, N.** Multiple births in cattle. *Mont. Stockgrower* 23:17, 20-22. Jan. 15, 1951. 49 M76
- 37276 **ZIJVERDEN, J. VAN.** Tuberculosis control once more. (In Dutch.) *Tijdschr. v. Diergeneesk.* 76:117-118. Feb. 1, 1951. 41.8 T431
- Cattle.**
- 37277 **ZIMMER, F.** Wie kann dem kalberdurchfall entgegengewirkt werden? *Bad. Landwirt. Wchnbl.* 118:11. Jan. 6, 1951. 18 B142

## Miscellaneous

- 37278 **ABRAMENKO, P. I., and KONDRASHEVSKI, I. F.** Practices in milking cows on Put' k Kommune Collective Farm. (In Russian.) *Sofzialist. Zhivotnovod.* 12(9):29-35. Sept. 1950. 49 So71
- 37279 **ANDRADE, H.** Crianza del ganado lechero en Chile. *Campesino [Santiago]* 83:43, 45. Jan. 1951. 9.3 So12



- 37280 AREY, J. A., and DOBSON, S. H. A guide to better dairying. N. C. Agr. Col. Ext. C. 294, rev., 4 p. Oct. 1950. 275.29 N811
- 37281 BECKER, Die kosten für die milchkontrolle. Landwirt. Wehnl. f. Westfalen u. Lippe 108A:124-125. Jan. 25, 1951. 18 L2346  
Records and testing.
- 37282 BODDY, H. How happy can a cow get? West. Dairy J. 7(4):20, 23. Feb. 1951. 44.8 W524  
Care.
- 37283 BRADBURY, C. J., and SILLCOCK, K. M. Dairy herd improvement; sire survey and Advanced Register of Merit. Victoria. Dept. Agr. J. 48:529-534. Dec. 1950. 23 V66J
- 37284 BUTTROSE, A. K. Raising beef cattle on Kangaroo Island. So. Austral. Dept. Agr. J. 54:202-203. Nov. 1950. 23 So84
- 37285 CIMON, J. C. Le contrôle laitier postal. Digeste de l'Eleveur 5(5):18-19, 32. Jan. 1951. 49 D56
- 37286 COLLIER, S. G. Les progres de la production laitière en Grande-Bretagne. Bétail & Basse-Cour 6:29. Jan. 1951. 49 B462
- 37287 COUPER, G. P. Dairy "alumni"—FFA's answer to good agriculture, citizenship. West. Dairy J. 7(4):12, 55. Feb. 1951. 44.8 W524
- 37288 DANILEVSKII, N. D. Leading milkmaid, M. Ia. Oleksenko. (In Russian.) Soŭsialist. Zhivotnovod. 12(9):36-40. Sept. 1950. 49 So71
- 37289 DANILEVSKII, N. V. Pedigree [cattle] farm of 10 Richkhia Zhovntia Kolkhoz. (In Russian.) Soŭsialist. Zhivotnovod. 12(11):88-89. Nov. 1950. 49 So71
- 37290 DICKEY, J. B. R. Bedding for cows. Pa. Farmer 144:152-153, 175. Feb. 24, 1951. 6 P383
- 37291 DODD, L. Assembly line milking. West. Dairy J. 7(4):10, 16. Feb. 1951. 44.8 W524
- 37292 FAVERA, R. D. Modern concepts in the raising of dairy cattle. (In Italian.) Humus 6(12):13-15. Dec. 1950. 16 H88
- 37293 FOWLER, S. Cattle and man. Ala. Farmer 30(4):5, 13. Jan. 1951. 276.8 AL1  
Origin and development of domestic cattle.
- 37294 FRANSSON, A. Factors effecting the culling age of cows. (In Swedish.) Ladugården 1950:296-299. Oct. 1950. 44.8 L12
- 37295 GAUNTT, F. Why you should exhibit your cattle. Brown Swiss B. 29(9):11-12. Mar. 1951. 43.8 B81
- 37296 GORDON, G. E., and PELISSIER, C. L. D.H.I.A. testing. Calif. Dairyman 31(4):10. Mar. 24, 1951. 44.8 C12
- 37297 GREVE S., G. Lo que significan las exposiciones ganaderas del Sur. Agr. Austral 18:560-564. Dec. 1950. 9.3 Ag842  
Chilean cattle.
- 37298 GROVES, D. There's more to the beef animal than meets the eye. Looks are deceiving, but keeping records on daily gain and feed efficiency tells you which animals are the best bet for breeding stock. Successful Farming 49(3):149, 179-180. Mar. 1951. 6 Su12
- 37299 HAMER, R. S. Breeders should make more use of A.R. Canad. Jersey Breeder 6:32-33. Jan. 1951. 43.8 C165  
Advanced Registry Service.
- 37300 HERMAN, H. A. Making a success as a dairy farmer; eight factors which usually enter into the picture. Guernsey Breeders' J. [Peterborough] 81:661, 676, 679, 681-682. Mar. 7, 1951. 43.8 G93
- 37301 HERMAN, H. A. Put efficiency into your efforts. Hoard's Dairyman 96:205, 215. Mar. 10, 1951. 44.8 H65  
Herd management.
- 37302 HODGSON, S. Herd replacements. Certif. Milk 26(3):20. Mar. 1951. 44.8 C33
- 37303 IASAKOV, K. V. On a leading dairy farm [at Komintern Kolkhoz in Balashov District, Saratov Region]. (In Russian.) Soŭsialist. Zhivotnovod. 12(10):17-20. Oct. 1950. 49 So71
- 37304 IŪRMALIAT, A. P., BEGUCHEV, A. P., and SEMENOV, N. P. Opyt doŭarok pŭatitysŭachnifŭ [Practices of "5000-qt." milkmaids]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 111 p. 43 Iu60  
Care and feeding of dairy cows by successful dairywomen.
- 37305 JANSSON, H. Experiences from last year's pasturing. (In Swedish.) Ladugården 1950:311-312. Oct. 1950. 44.8 L12  
Effect on milk yield.
- 37306 KAZINTSEV, D. A leading [cattle] farm in Kalinin Region. (In Russian.) Soŭsialist. Zhivotnovod. 12(11):89-90. Nov. 1950. 49 So71  
On Kollektivnyi Trud Collective Farm in Krasnokholmskii District.
- 37307 KEILHOLZ, F. J. One-man feed lot; a fully mechanized plan for you to handle up to 500 steers with almost no work. Country Gent. 121(3):30, 144-146. Mar. 1951. 6 C833
- 37308 KÖNIG, K. Die milchleistungsprüfungen als Voraussetzung einer rentablen viehwirtschaft. Allgäuer Bauernbl. 19:29-30. Jan. 18, 1951. 18 AL53
- 37309 LEIGHTON, R. E., BURLESON, R. E., and RUPEL, I. W. A milking procedure for the dairy herd. Tex. Agr. Col. Ext. C. 290, 7 p. Dec. 1950. 275.29 T312C
- 37310 LIEVENS, F. Le bétail laitier hautement rentable. (Excerpts.) Bétail & Basse-Cour 6:30-31. Jan. 1951. 49 B462  
Chiefly care of dairy cattle.
- 37311 LIEVENS, F. Considérations sur le contrôle laitier en Belgique. Rev. de l'Agr. 4:39-69. Jan. 1951. 13 R322  
English summary.
- 37312 MACEWAN, J. W. G. Smoke from the branding iron; brands to identify range cattle and their owners are as old as the industry itself. Family Herald & Wk. Star 82(6):3, 19. Feb. 8, 1951. 7 F21
- 37313 MCFADZEAN, H. Milk production in Cheshire. Gt. Brit. Min. Agr. Agriculture 57:510-513. Feb. 1951. 10 G79J
- 37314 MAINARDI, B. Let us raise our cattle in the open! (In Italian.) Humus 6(11):21-24. Nov. 1950. 16 H88
- 37315 MEDIUM is the size that tends to combine gain-ability of large cattle and finish-ability of small cattle without sacrifice of efficiency of gain—that is one of the principal conclusions drawn from the American Hereford Association-sponsored test. Amer. Hereford J. 41(22):20-25. Mar. 15, 1951. 43.8 Am32
- 37316 MILBURN, W. S. Cattle rustlers today. Farm Q. 6:46-49, 116-121. Spring 1951. 6 F22995
- 37317 MONTGOMERY, G. A. Start program to develop faster gaining beef cattle. Capper's Farmer 62(2):18, 27. Feb. 1951. 6 M693
- 37318 NIKLAS, W. Höchstmögliche leistung in der rinderhaltung. Unser Milchvieh 3(1):1-2. In Mol. -Ztg. 5(1). Jan. 4, 1951. 44.8 M735
- 37319 NORWAY. STATSKONSULENTKONTORET FOR HUSDYRBRUK. Review of yield figures for 1950. (In Norwegian.) Landbrukstidende 56:987-994. Dec. 13, 1950. 11 L236  
Milk fat.
- 37320 OERS, VAN. Effect of environment on milk production. (In Dutch.) Stamboek 33:9-10. Feb. 1, 1951. 43.8 V58
- 37321 OFFICIAL herd testing in South Australia; results of the 1949-50 tests. So. Austral. Dept. Agr. J. 54(5, sup.):22 p. Dec. 1950. 23 So84
- 37322 PATERSON, R. Problems of management. 14. Concentrates or silage. Farmers Wk. [London] 34(10):61. Mar. 9, 1951. 10 F2226  
Influence of feed on milk yield.
- 37323 PERRY, E. J. What's new in dairy husbandry. Better Farming Methods 23(3):60-61. Mar. 1951. 58.8 B46
- 37324 PORTERFIELD, I. D., and ACKERMAN, R. A. Managed milking. W. Va. Agr. Col. Ext. Misc. P. 2, 6 p.-folder. Jan. 1951. 275.29 W522M
- 37325 RICH, L. H. Boarders or bankers—what do you keep? DHIA testing is the only way to make sure of the ones that pay. Utah Farmer 71:172, 207. Mar. 1, 1951. 6 D45
- 37326 ROBERTS, J. E., and others. Slaughter calf production in the Brazos Valley near College Station. Tex. Agr. Expt. Sta. Prog. Rpt. 1322, 3 p. Feb. 6, 1951. 100 T31P  
C. D. Butler, J. H. Jones, and F. A. Wolters, joint authors.
- 37327 ROSS, O. B. What's new in beef husbandry. Better Farming Methods 23(3):62-63. Mar. 1951. 58.8 B46
- 37328 RYDE, H. New directives for the dairy herd improvement activities. (In Swedish.) Ladugården 1950:302-304. Oct. 1950. 44.8 L12
- 37329 SCOTT, I. W. Results of official recording of dairy cows in New South Wales, 1949-50; leading herds and cows. Agr. Gaz. N. S. Wales 61:613-617, 650. Dec. 1, 1950. 23 N472



37330 SELLSCHOPP, A. Wirtschaftlichkeit im kuhstall. Deut. Landwirt. Presse 74:18-19. Jan.20,1951. 18 D482

Records of milk production.

37331 SEVERSON, H. Save more calves; some dairy-men have given up trying to raise their own calves. Here are some farm-tested helps. Successful Farming 49(3): 96,98,100. Mar.1951. 6 Su12

37332 SHUBIN, A. E. A well-deserved award. (In Russian.) SoSialist. Zhivotnovod. 12(11):90-91. Nov. 1950. 49 So71

Achievements of A. A. Romanova in milk production on Svobodnyĭ Put' Collective Farm in Sverdlov Region.

37333 SIRRI, A. To improve the quality of "grana"; courses for milkers in the Province of Modena. (In Italian.) Cam. di Com. Indus. ed Agr. di Modena. B. Mens. 56:1057-1059. Dec.1950. 280.9 M722

37334 SPENLE, X. Leistungsfähig durch die freiwillige milchleistungsprüfung. Allgäuer Bauernbl. 19:42. Jan.25,1951. 18 AL53

37335 TOLONEN, K. Activities of the dairy herd improvement associations 1949-50. (In Swedish.) Lantman- nen 35:103-105. Feb.10,1951. 11 L234

37336 TRIMBERGER, G. W. Cornell's dairy herd serves New York farmers. Cornell Plantations 7:19-22. Winter 1950/51. 409.6 C812

37337 TURK, K. L. A new world's record for butter-fat production. Dairyman's League News 35(4):6-7. Feb. 20,1951. 44.8 D1432

37338 WARD, A. H. Production per cow or production per acre? New Zeal. Dairy Exporter 26(7):4-5,44. Jan.1951. 44.8 N484

37339 WEEMS, A. G. Water, water everywhere. Livestock Wk. 5(12):20-21,36,42-43. Jan.25,1951. 49 L753

Flood problems in Mississippi cattle country.

37340 WYLIE, I. Best beef Shorthorn sale since 1946. Farmer & Stock-Breeder 65:580-581. Feb.20,1951. 10 F228

37341 ZHUGINA, E., ed. Kak my povysshaem produktivnost' korov [How we are increasing the productivity of cows]. Moskva, Moskovskii Rabochii, 1950. 98 p. 43 Z62

## DOGS AND CATS

### Breeds and Breeding

37342 ASSOCIATION OF MASTERS OF HARRIERS AND BEAGLES. Kennel stud book, 1950. London, Blades, 1950. 47 p. 48.9 As7

37343 BELTRAN J., F. Me permito proponer que ... Mundo Canino 4(40):7,10,12,14. Dec.1950. 48.8 M92

Classification of dog breeds.

37344 BELTRAN J., F. Vamos a entendernos. Mundo Canino 4(39):2,11,14. Nov.1950. 48.8 M92

On dog breeds and breeding.

37345 BOYD, B. Fabulous dogs. Pa. Game News 21(12):20-25. Mar.1951. 412.9 P38Pe

Weimaraners.

37346 CARM, C. O. The Wire-haired Fox Terrier. (In Portuguese.) Chacaras e Quintais 83:91-93. Jan.15, 1951. 9.2 C34

37347 COBBAN, L. L'Affenpinscher. Chiens et Vénérle (Sup.) (n.s.):9:8. Dec.1950/Jan.1951. 48.8 C43

37348 COSTA, J. M. G. DA. Dogs of the breed "Fila Brasileiro". (In Portuguese.) Fauna [São Paulo] 9(12): 52-53. Dec.1950. 410 F272

37349 THE EXTRAORDINARY life of the Saint Bernard dogs. (In Portuguese.) Fauna [São Paulo] 9(12): 25-27. Dec.1950. 410 F272

37350 GUY, E. B. Rock carvings reveal presence of ilio: Hawaiian dog. Our Dumb Anim. 84(2):5. Feb.1951. 48.8 Ou7

37351 HARRINGTON, L., and HARRINGTON, R. Nature's gentleman; this fine breed of dogs, noted for their sagacity and strength, were almost extinct, but are now making a come-back. Family Herald & Wk. Star 82(5):5,11. Feb.1,1951. 7 F21

Newfoundland dogs.

37352 HEROUT. Teckel; Daschund. Chiens et Vénérle (Sup.) (n.s.):9:3. Dec.1950/Jan.1951. 48.8 C43

Good and bad conformation.

37353 IRISH KENNEL CLUB. Details of registrations effected for the period January to December, 1950. 1951. various paging. 48.9 Ir42D

37354 JONES, A. F. The breeds in brief. No. 107. Bernese Mountain Dog. Amer. Kennel Gaz. 68(2):27-28, 229-230. Feb.1951. 48.8 Am3

37355 MITTON, A. Le braque du Bourbonnais.

Saint-Cloud, Girault, 1950. 44 p. Ref. 48 M69

Thesis - École Nationale Vétérinaire d'Alfort.

37356 NIKONOFF, G. L'utilisation du Collié. Chiens et Vénérle 41:5. (To be cont.) Nov./Dec.1950. 48.8 C43

37357 SOCIÉTÉ ROYALE SAINT-HUBERT POUR L'AMÉLIORATION DES RACES CANINES EN BELGIQUE. Livre des origines, 57. Bruxelles, Bugghenoudt, 1950. 265 p. 48.9 So1

Union Cynologique Saint-Hubert, cooperating.

37358 TENENT, R. The book of the Siamese cat. London, Rockliff, 1950. 130 p. 48 T25

37359 VIVIEN, P. Le Basset Griffon Vendéen. Acclimatation 78:43-44. Feb.24,1951. 14 Ac2

## Veterinary Medicine

37360 AJMERITO, G. Sphygmomanometry in the canine clinic. (In Italian.) Clin. Vet. 73:299-308. Ref. Oct.1950. 41.8 C61

37361 BADER, D. N. Treatment of lymphosarcoma with nitrogen mustard. Amer. Vet. Med. Assoc. J. 118: 167-169. Mar.1951. 41.8 Am3

In a dog.

37362 BALL, M. R. Salmonella in dogs and cats of the Los Angeles, Honolulu, and Bermuda areas. Amer. Vet. Med. Assoc. J. 118:164-166. Ref. Mar.1951. 41.8 Am3

37363 BALLHAUS, G., and KRAUSE, D. Über die toxizität der rattenvertilgungsmittel "Muritan" und "Rumetan" für hunde. Deut. Tierärztl. Wchnschr. 57: 398-400. Dec.15,1950. 41.8 D482

37364 BERTRAND, S. P. Enclouage centro-médul- laire des fractures du chien. Paris, Vigot, 1950. 63 p. Ref. 41.2 B4627

Thèse - École Nationale Vétérinaire d'Alfort.

37365 BURCH, G. R., and BLAIR, H. E. A rapid test for the diagnosis of Dirofilaria immitis. Vet. Med. 46: 128-130. Apr.1951. 41.8 M69

37366 CAYLESS, B. G., and MALE, N. P. An unusual case of intestinal diverticulum. Vet. Rec. 63:184. Mar.10,1951. 41.8 V641

Surgical treatment of Elkhound bitch.

37367 COTCHIN, E., DOUGLAS, S. W., and PLATT, H. Neoplasms in small animals. I-III. Vet. Rec. 63:67-78. Ref. Feb.3,1951. 41.8 V641

Three short papers; chiefly on dogs.

37368 DAMODARAN, S. Hydronephrosis in canines. Indian Vet. J. 27:192-197. Nov.1950. 41.8 In2

37369 DONATIEN, A., GAYOT, G., and POUL, J. Leptosprose du chien en Algérie. Inst. Pasteur d'Algérie. Arch. 28:441-448. Dec.1950. 448.3 In7A

37370 FETHERS, G. The menace of hydatids. Past. Rev. 60:1342. Dec.16,1950. 23 Au75

In dogs and sheep.

37371 GRAUBNER, W., and WICK, H. Der bronchial- muskelkrampf des hundes und seine beziehung zur medikamentösen asthmatherapie. Arch. Internatl. de Pharmdyn. et de Thé. 84:337-348. Ref. Dec.1,1950. 448.8 Ar226

37372 GREENE, J. E., and HOERLEIN, B. F. Diag- nosis and treatment of canine hepatitis. No. Amer. Vet. 32:166-168. Mar.1951. 41.8 N812

37373 HILL, H., and HAASE, G. Das verhalten der schilddrüse nach methylthiouracilgaben bei partiell hypophysektomierten hunden. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:265-266. Ref. Dec.1950. 41.8 B45

37374 HOGARTH, T. W. Tetanus in dogs. Austral. Vet. J. 26:338-339. Dec.1950. 41.8 Au72

37375 KEEP, J. M., STEEL, J. D., and WHITTEM, J. H. A clinical, pathological and experimental study of a meningitic syndrome in dogs. Austral. Vet. J. 26:330-337. Dec.1950. 41.8 Au72

37376 KELLY, E. Distemper. III. "Incidents". Cocker Spaniel Visitor 13(2):14. Feb.1951. 48.8 C64

37377 KISEL, G. K. Congenital esophageal dilata- tion in a Great Dane puppy. Cornell Vet. 41:36-37. Jan. 1951. 41.8 C81

37378 KONDE, W. N. In the small animal clinic; enteric diseases. Auburn Vet. 7:87-89,95. Winter 1951. 41.8 Au1

Dogs.



37379 KRAUSE, D., and WELZ, G. Lokale therapie mit penicillin-sulfonamid-kombinationen beim hund. Deut. Tierärztl. Wchnschr. 57:395-396. Ref. Dec.15, 1950. 41.8 D482

37380 MAGRANE, W. G. An evaluation of the use of antibiotics in canine ophthalmology. No. Amer. Vet. 32: 169-170. Mar.1951. 41.8 N812

37381 MALHERBE, W. D. The management of drug-fast biliary fever in dogs. So. African Vet. Med. Assoc. J. 21:158-159. Dec.1950. 41.8 S08  
 Piroplasmosis, due to Babesia canis.

37382 MASLENKOVA, E. M. Chronic vitamin B<sub>2</sub> avitaminosis (ariboflavinosis). (In Russian.) Zhur. Obshch. Biol. 11:391-404. Sept./Oct.1950. 442.8 Z6  
 Includes observations on dogs.

37383 MOELLER, H. C., MARSHALL, H. C., and KIRSNER, J. B. Lysozyme production in response to injury of gastrointestinal tract in dogs. Soc. Expt. Biol. & Med. Proc. 76:159-161. Ref. Jan.1951. 442.9 S01

37384 MORANT, K. M. Clinical communications. I-III. Vet. Rec. 63:82. Feb.3,1951. 41.8 V641  
 I, Actinomycosis in a dog; II, Tendon repair in a dog; III, Scrotal hernia [in a dog].

37385 MORIN, G., POURSIENES, Y., and MAFFRE, S. Sur les origines du faisceau pyramidal du chien. Soc. de Biol. Compt. Rend. 144:1538-1540. Nov.1950. 442.9 P21

37386 NICHOLS, J., and GARDNER, L. I. Production of insulin sensitivity [in dogs] with the adrenocorticotrophic drug DDD (2, 2-bis (parachlorophenyl)-1, 1-dichloro-ethane). J. Lab. & Clin. Med. 37:229-238. Ref. Feb.1951. 448.8 J8233

37387 NIPPERT, F. Über die aussichten der epi-leptasid-luminaletten-therapie bei staupekrämpfen der hunde. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:177-178. Sept.1950. 41.8 B45

37388 OTTEN, E., and WESTPHAL, A. Beitrag zum "staupebruch" nach vorhergegangener aktiver immunisierung—zur differentialdiagnose: die toxoplas-mose. Tierärztl. Umschau 6:59-60. Ref. Feb.1951. 41.8 T445

37389 REDDING, R. W. Splenic hemangioma in a dog; case report. No. Amer. Vet. 32:173-175. Mar.1951. 41.8 N812

37390 REYNOLDS, P. M. Some notes on the healing of an extensive skin wound. Vet. Rec. 63:99-100. Feb.10, 1951. 41.8 V641  
 In a dog.

37391 ROBERTS, H. B., and others. Surital sodium anesthesia in canine surgery. Amer. Vet. Med. Assoc. J. 118:151-153. Mar.1951. 41.8 Am3  
 W. E. Wendt, C. C. Wagner, and T. F. Reutner, joint authors.

37392 SCHEITLIN, M., SEIFERLE, E., and STUNZI, H. Klinische und pathologisch-anatomische beobachtungen über die sog. "hard pad disease" beim hund. Schweiz. Arch. f. Tierheilk. 93:91-129. Ref. Feb.1951. 41.8 Sch9  
 English summary.

37393 SCHERMER, J. Weitere untersuchungen über die leptospirose. Monatsh. f. Vetmed. 6:1-4. Jan.1,1951. 41.8 M742  
 In dogs.

37394 SCHLOTTHAUER, C. F., and GRINDLAY, J. H. Carcinoma of rectum of a dog treated by surgical removal of rectum. No. Amer. Vet. 32:171-172. Mar.1951. 41.8 N812

37395 SCHREYER, T. Angeborene nabelfistel beim hund, durch einen persistierenden dottergang verursacht. Berlin. u. Münch. Tierärztl. Wchnschr. 1951:38-39. Ref. Feb.1951. 41.8 B45

37396 SLAPPEY, W. O., and STAPLETON, R. T. Intravenous treatment of ringworm [in dogs]. No. Amer. Vet. 32:168. Mar.1951. 41.8 N812

37397 SMITH, G. K. Diaphragmatic hernia in dogs. Auburn Vet. 7:62-64. Winter 1951. 41.8 Aul

37398 STANSKI, F., and KORDECKI, R. X-ray irradiations and heparinaemia, blood coagulation time and leukergy. (In Polish.) Med. Weter. 6:453-455. Aug. 1950. 41.8 M463  
 English summary.

Experiments with dogs.  
 37399 TARASEWICZ, W. Two cases of the presence of foreign body in the thoracic part of the oesophagus in dogs. (In Polish.) Med. Weter. 6:473-474. Aug.1950. 41.8 M463

37400 VAITSMAN, J. Verminosis of dogs. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:168. July/Dec. 1950. 9.2 R325

37401 VOLKER, R., and KRAUSE, D. Betäubungs-verfahren für hunde. Deut. Tierärztl. Wchnschr. 58:66-68. Mar.1,1951. 41.8 D482

37402 WAGENER, G. Serologische untersuchungen von hunden auf canicola-infektion. Monatsh. f. Vetmed. 6: 4-8. Ref. Jan.1,1951. 41.8 M742

37403 WILLEMET, B. Contribution à l'étude de l'enclouage métallique centromédullaire dans les fractures de la diaphyse fémorale du chien. Paris, Vigot, 1950. 55 p. Ref. 41.2 W662  
 Thesis - École Nationale Vétérinaire d'Alfort.

#### Miscellaneous

37404 ANDERSEN, J. Killer dogs. Pa. Game News 21(12):26-29. Mar.1951. 412.9 P38Pe  
 Feral dogs destroying game.

37405 AUBRY, P. La prise des empreintes nasales. Chiens et Vénérerie 41:2-3. Nov./Dec.1950. 48.8 C43

37406 AUBRY-DUSOULIER, J. L'exposant: ses devoirs et ses droits. Chiens et Vénérerie 41:3-4. (Cont.) Nov./Dec.1950. 48.8 C43

37407 BLAKE, K. Through the centuries with this and that about the cat. Our Dumb Anim. 84:10-11. Jan. 1951. 48.8 Ou7  
 Folklore.

37408 FARLEY, T. Dogs of war. Our Dumb Anim. 84(2):9. Feb.1951. 48.8 Ou7

37409 FESS, L. E. Where crime pays; even cops help this "burglar" operate. Amer. Kennel Gaz. 68(2): 20-22, 222-223. Feb.1951. 48.8 Am3  
 Training watch dogs.

37410 HEINOLD, K., and DOCK, G., JR. The case of the two-faced cat. Farm & Ranch South. Agr. 81(3):13,25. Mar.1951. 6 T31

A case for and against cats as beasts of prey.

37411 JAMES, W. T. Social organization among dogs of different temperaments, Terriers and Beagles, reared together. J. Compar. & Physiol. Psychol. 44:71-77. Feb. 1951. 410 J822

37412 LACOSTE, R. Man's best friend is being trained for canine mercy missions. Our Dumb Anim. 84: 5. Jan.1951. 48.8 Ou7

37413 LOWRY, R. K. How intelligent are dogs? All-Pets Mag. 22(2):39-40. Feb.1951. 48.8 AL5

37414 MAGALHÃES, A. P. DE. The advantages of dog raising. (In Portuguese.) Fauna [São Paulo] 9(12):44-46. Dec.1950. 410 F272

37415 MELVIN, A. What's in a name? Amer. Kennel Gaz. 68(2):11,219-220. Feb.1951. 48.8 Am3  
 Change in behavior with new name.

37416 MITCHELL, L. M. Is your dog safe when at home? Amer. Kennel Gaz. 68(2):23,221-222. Feb.1951. 48.8 Am3

37417 RICKETTS, V. L. Selling dogs by mail. All-Pets Mag. 22(2):37-38,41. Feb.1951. 48.8 AL5

37418 ROSS, R. E. American trimming of English Cocker. Breeder Dog J. 1950:8-9. Dec.1950. 48.8 B742

37419 SAUNDERS, B. The urgent needs in obedience. Amer. Kennel Gaz. 68(2):16-19,220-221. Feb.1951. 48.8 Am3

37420 WIMHURST, C. G. Train your dog. All-Pets Mag. 22(2):37,40. Feb.1951. 48.8 AL5

#### FUR ANIMALS - PEN RAISED

##### Breeds and Breeding

37421 BOWNESS, E. R. Breed Sapphires for a clear blue strain. Black Fox Mag. & Mod. Mink Breeder 34(11): 12,30. Mar.1951. 410 B56

37422 PETERSON, S. Exhibitions and mink types in USA. (In Swedish.) Våra Pälsdjur 22:16-20. Jan.15,1951. 410 V42

37423 VENGE, O. The microscope and its use. (In Swedish.) Våra Pälsdjur 22:31-33. Feb.1,1951. 410 V42  
 In breeding of fur animals.

##### Feeds and Feeding

37424 GORHAM, J. R., and FRANK, F. W. How much liver will make a balanced diet? Black Fox Mag. & Mod. Mink Breeder 34(11):15,31. Mar.1951. 410 B56



37425 HARRIS, L. E., BASSETT, C. F., and WILKE, C. F. Effect of various levels of calcium, phosphorus and vitamin D intake on bone growth. I. Foxes. *J. Nutr.* 43:153-165. Jan.10,1951. 389.8 J82

37426 HARRIS, L. E., and others. The protein requirement of growing foxes. *J. Nutr.* 43:167-180. Jan. 10,1951. 389.8 J82

C. F. Bassett, L. M. Llewellyn, and J. K. Loosli, joint authors.

37427 MCCORKLE, S. J. Mink rations and their management. *Natl. Fur News* 23(2):11,21,27,30-31. Mar. 1951. 412.628 R59

#### Veterinary Medicine

37428 ENIGK, K. Zur epidemiologie des strongyloidesbefalles des sumpfbibers. *Osterr. Kleintierzüchter* 1950:874-875. Dec.1950. 49 Os7

37429 GORHAM, J. R. Distemper in dogs a menace to fox and mink. *Pelletteries du Québec* 16:10. Jan.1951. 412.628 P36

37430 GORHAM, J. R., and FRANK, F. W. The value of liver in the prevention of steatitis (yellow fat) in mink. *Natl. Fur News* 23:15. Feb.1951. 412.628 R59

37431 KAINER, R. A. Research in the anatomy of mink. *Black Fox Mag. & Mod. Mink Breeder* 34(11):13. Mar.1951. 410 B56

37432 KAINER, R. A., and GORHAM, J. R. Pelvic appendage deformity in a mink. *Cornell Vet.* 41:52-53. Jan.1951. 41.8 C81

37433 MOMBORG-JØRGENSEN, H. C. Health conditions of fur animals in 1950. (In Danish.) *Dansk Pelsdyravl.* 14:25-26. Jan.1,1951. 412.628 D23

37434 NEWBERNE, P. M., and BURNETT, S. E. Cestodiasis in the chinchilla. *Vet. Med.* 46:156-157. Apr.1951. 41.8 M69

Larval forms of *Taenia pisiformis* and *Multiceps serialis*.

37435 NEWBERNE, P. M. The chinchilla. *Auburn Vet.* 7:59-61. Winter 1951. 41.8 Aul

Diseases.

37436 SOMPOLINSKY, D. Urinary calculi in mink. (In Danish.) *Dansk Pelsdyravl* 14:13-16. Jan.1,1951. 412.628 D23

37437 STIRLING, A. C. Paralysis of the forelimb. *Natl. Chinchilla Breeder* 6(12):10. Feb.1951. 412.628 N21

#### Miscellaneous

37438 AMMOSOV, V. A., and others. Kolkhoznafā ferma serebristo-černykh lisits [A collective farm for silver-black foxes]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 63 p. 412.62 Am6

I. S. Bromberg, B. A. Gusev, A. I. Kvapil', and V. I. Lepeshkin, joint authors.

37439 GOTHIER, F. A judge's impressions of the 1950 [mink] shows. *Black Fox Mag. & Mod. Mink Breeder* 34(10):12,24-30. Feb.1951. 410 B56

Includes breeding and care.

37440 PEDERSEN, R. Coypus. (In Swedish.) *Våra Palsdjur* 22:20-22. Jan.15,1951. 410 V42

37441 PETERSEN, H. Prelude to mink farming. *Fur Trade J. Canada* 28(6):12-13,34-36,46. Feb.1951. 410 F965

Methods and equipment.

37442 TRONSLIEN, K. On the mink exhibitions. (In Norwegian.) *Norsk Pelsdyrbl.* 25:150-151. Feb.5,1951. 412.628 N812

37443 WALTER, H. H. Winterschlaf. *Osterr. Kleintierzüchter* 1950:875-876. Dec.1950. 49 Os7

Raccoons.

#### HORSES AND MULES

##### Breeds and Breeding

37444 AFANAS'EV, S. V. On the trotter as the principal improver of the farm horse. (In Russian.) *Konevodstvo* 20(8):5-11. Aug.1950. 42.8 K832

37445 BLANCO, A. To increase Thoroughbred breeding [in Italy]. (In Italian.) *Allevatore* 7(4):3. Jan.28,1951. 49 AL55

37446 BOCHKAREV, K. Present day Karabakh horse. (In Russian.) *Konevodstvo* 20(9):16-20. Sept.1950. 42.8 K832

Prospects for developing new breed by crossing with Arabian.

37447 BUTZOW, F. Master of Mount Vernon owned Thoroughbreds. *Thoroughbred Rec.* 153(7):9,28. Feb.17, 1951. 42.8 T39

37448 COCHRAN, K. The C. T. B. A. [California Thoroughbred Breeders Association] its history. *Thoroughbred Calif.* 12:256,277. (Cont.) Mar.1951. 42.8 T393

37449 CONN, G. H. Tributes to the Arabian horse. *West. Horseman* 16(4):18-19. Apr.1951. 42.8 W522

37450 EDWARDS, C. L. Arab judging contest. *West. Horseman* 16(4):8,33,36-37,40. Apr.1951. 42.8 W522

37451 ESPESO DEL POZO, G. Los caballos eumétricos de España. *Ganadería [Madrid]* 8:626-629. Oct. 1950. 49 G15

37452 FUSTER B., O. El caballo criollo en Panama. *Rev. de Agr. Com. e Indus. [Panama]* 8(111/112):26-27. Nov./Dec.1950. 8 R329F

37453 GERBEX, R. F. Acerca de las carreras para el Anglo Argentino. *Asoc. Argentina de Fomento Equino. [Rev.]* 42:34-37. Dec.1950. 42.9 As52

37454 GERBEX, R. F. El Anglo Argentino. *Asoc. Argentina de Fomento Equino. [Rev.]* 42:47-48. Dec. 1950. 42.9 As52

37455 GUIMONT, J. A. Coup d'oeil sur l'élevage du cheval. *Digeste de l'Eleveur* 5(5):9-12. Jan.1951. 49 D56

Canada.

37456 HAINES, F. Truth about Appaloosas. II. *Tex. Livestock J.* 10:88. Jan.15,1951. 49 T29

37457 HENDERSON, D. The popularity of Appaloosa horses. *Rider & Driver* 103(6):23. Jan.1951. 42.8 R43

37458 JOHNSON, M. R. The Arabian as a rope horse. *West. Horseman* 16(4):20. Apr.1951. 42.8 W522

37459 JOHNSTONE, E. There is no one answer; the formula for successful breeding of Thoroughbreds is an elusive pattern at which only hardy keep delving. *Thoroughbred Rec.* 153(7):16-17. Feb.17,1951. 42.8 T39

37460 KAZMAKHOV, I. Kabardian horse breeders. (In Russian.) *Konevodstvo* 20(9):1-4. Sept.1950. 42.8 K832

37461 KHITENKOV, G. G. Growth of cross-breeds under different feeding conditions. (In Russian.) *Konevodstvo* 20(8):15-27. Aug.1950. 42.8 K832

37462 KUZNETSOV, K. Practices of leading horsebreeders of 17-go Parts'ezda Kolkhoz in Leningrad District, Krasnodar Territory. (In Russian.) *Konevodstvo* 20(8):33-35. Aug.1950. 42.8 K832

37463 LESNIKOV, G. Horse breeding on collective farms in Rostov Region. (In Russian.) *Konevodstvo* 20(8):11-14. Aug.1950. 42.8 K832

37464 MCGEE, W. R. More on the foaling mare. What about ninth-day breeding? Is it a sound general policy to follow, or are there important considerations against it? *Blood-Horse* 61:574-575,582. Mar.17,1951. 42.8 T392

37465 MACKENZIE, A. Light horses and ponies in 1950. *Scot. Farmer* 59(spec. album no.):70-71. Jan.1, 1951. 10 Sc08

37466 MARCQ, La aptitud en la tracción como medio selectivo. *Asoc. Argentina de Fomento Equino. [Rev.]* 42:65-68. Dec.1950. 42.9 As52

37467 MORRIS, G. F. Why I like the Arab. *West. Horseman* 16(4):22. Apr.1951. 42.8 W522

37468 OERTZEN, H. U. VON. Rationalisierung in der pferdezucht; querschnitt durch fünf hengstkörnungen. *Tierzüchter* 2:647-649. Dec.20,1950. 49 T445

Germany.

37469 PAPP, E. Los criaderos alemanes de caballos de temperamento sanguíneo. *Agr. Trop.* 7:15-16. Jan. 1951. 26 Ag8

37470 PARK, R. The Clydesdale horse, 1900-1950. *Scot. Farmer* 59(spec. album no.):59. Jan.1,1951. 10 Sc08

37471 POGOSIAN, I. B. Horses of Kalinin and Stepanavan districts in Armenian SSR. (In Russian.) *Konevodstvo* 20(9):11-15. Sept.1950. 42.8 K832

Hybrids.

37472 POSTNIKOV, G. M. Pedigree work on stud farm of Imeni Krasnykh Partizan Collective Farm. (In Russian.) *Konevodstvo* 20(9):5-10. Sept.1950. 42.8 K832

37473 RAMSER, H. The NATE, an explanation. *Thoroughbred Calif.* 12:254-255,276-277. Mar.1951. 42.8 T393

National Association of Thoroughbred Breeders.

37474 SHEEHY, E. J. The Thoroughbred horse. *Agr. Ireland* 8:40-41,43,52-53. Feb.-Mar.1951. 10.5 Ag8



37475 SIDORENKO, V. I. A. On the achievements of Tiumen Station of Artificial Insemination [of horses]. (In Russian.) *Konevodstvo* 20(9):21-22. Sept.1950. 42.8 K832

37476 SMITH, R. H. Working Arabs in the Northwest. *West. Horseman* 16(4):12-13,48-50. Apr.1951. 42.8 W522

37477 SUTHERLAND, A. Clydesdales in 1950. *Scot. Farmer* 59(spec. album no.):60-68. Jan.1,1951. 10 Sco8

37478 SUTHERLAND, A. Other heavy horses in 1950. *Scot. Farmer* 59(spec. album no.):69. Jan.1,1951. 10 Sco8

37479 WARDEN, M. L. Facts and figures on the registration of American bred horses from Thoroughbreds to Appaloosas for the past ten years. *Natl. Horseman* 87(3):26-29,106-107. Mar.1951. 42.8 N21

37480 WUSSOW. Die notwendigkeit der einfuhrung von leistungsprufungen in der pferdezucht. *Tierzucht* 3:38-41. May 1950. 49 T443

37481 ZHADIN, I. I., and SHOKH, S. P. From each mare—a foal. (Practices of Hero of Socialist Labor, comrade I. S. Stofchan). (In Russian.) *Konevodstvo* 20(9):42-44. Sept.1950. 42.8 K832

#### Veterinary Medicine

37482 ABBONDANZA, S. Is equine infectious anemia in the rice-growing zone of Lombardy and Piedmont a leptospirosis? (In Italian.) *Clin. Vet.* 74:10-13. Jan. 1951. 41.8 C61

37483 ALVAREZ, E. Enfermedades infecciosas, infecto-contagiosas y parasitarias del caballo; remisión de muestras de materiales patológicos al laboratorio. *Argentina. Dir. Gen. de Remonta y Vet. Rev. de Vet. y Fomento Equino* 10(39):43-58. Ref. Dec.1950. 42.8 R32

37484 BEHRENS, H. Klinische erfahrungen mit dem bienenhonigpräparat M2-Woelm beim pferd. *Tierärztl. Umschau* 6:54-56. Ref. Feb.1951. 41.8 T445

37485 BERTHELON, M. Observations de gynécologie équine. *Rev. de Méd. Vét. [Toulouse]* 101:393-395. Aug./Sept.1950. 41.8 R32

37486 BOBYLEV, I. F. On the resistance of horses of Budennov breed to various diseases. (In Russian.) *Konevodstvo* 20(8):36-39. Aug.1950. 42.8 K832

37487 CASTELO, M. El tratamiento inmunizante, antigénico, de caballos, para la obtención de sueros terapéuticos. *Uruguay. Dir. de Ganad. B. Mens.* 31:362-368. July/Sept.1950. 41.9 Ur8

37488 DOLL, E. R., and HULL, F. E. Observations on hemolytic icterus of newborn foals. *Cornell Vet.* 41:14-35. Ref. Jan.1951. 41.8 C81

37489 DOLL, E. R., and MCGEE, W. R. Septicemic infections of newborn foals. *Vet. Med.* 46:123-127. Apr. 1951. 41.8 M69

37490 DURRIEU, R. Los parásitos gastrointestinales en el caballo. *Argentina. Dir. Gen. de Remonta y Vet. Rev. de Vet. y Fomento Equino* 10(39):37-42. Dec.1950. 42.8 R32

37491 GARCÍA ALFONSO, C. *Podología veterinaria*. Ed. 2. Madrid, Biosca, 1950. 380 p. 42 G16

37492 GLYNN, L. L. *Vertebrae in the Arab*. *West. Horseman* 16(4):31. Apr.1951. 42.8 W522

37493 HUPKA, E., and HUTTEN, H. Polamidon "C" ein brauchbares analgetikum in der pferdepraxis, insbesondere bei der kolik. *Deut. Tierärztl. Wehnschr.* 58:68-72. Mar.1,1951. 41.8 D482

37494 JIRINA, K. Pathological changes in serum horses and sheep. I. (In Czech.) *Časopis Českoslov. Vet.* 5:489-502. Nov.10,1950. 41.8 C27

37495 JOHNSON, C. One where two grew before. *Thoroughbred Calif.* 12:258-259,278. Mar.1951. 42.8 T393

Spaying of fillies with poor prospects as producers.

37496 LAMARRE, L. L'anémie infectieuse du cheval en Haute-Marne. *Rev. de Path. Compar.* 50:728-752. Ref. Nov.1950. 44.8 R326  
Includes discussion.

37497 LEKAREV, V. M. On some problems in the control of equine infectious anemia. (In Russian.) *Veterinariia* 27(9):11-15. Sept.1950. 41.8 V6426

37498 LEONHARDT, H. Beitrag zur ursache und behandlung der kolik der pferdes. *Berlin. u. Münch. Tierärztl. Wehnschr.* 1951:11-13. Jan.1951. 41.8 B45

37499 LIPOVTSEV, I. P. Intra-arterial use of monosept in purulent conditions in the horse. (In Russian.) *Veterinariia* 27(10):51-52. Oct.1950. 41.8 V6426

37500 MCCOLLUM, W. H., and DOLL, E. R. A medium for maintaining the viability of *Shigella equuli* cultures. *Cornell Vet.* 41:11-12. Jan.1951. 41.8 C81

37501 MCGEE, W. R. The newborn foal; diarrhea—*Shigella equuli* infection—streptococcal infection—*Bacterium coli* infection—jaundice—rheumatic arthritis. *Blood-Horse* 61:478-480,482,484,502. Mar.3,1951. 42.8 T392

37502 MORCOS, Z. Sore shins in horses and dormant strangles. *Brit. Vet. J.* 107:76. Feb.1951. 41.8 V643

37503 MÜLLER, L. F. Über die indikation zur darmstich beim pferde. *Berlin. u. Münch. Tierärztl. Wehnschr.* 1951:9-11. Ref. Jan.1951. 41.8 B45

37504 ONEGOV, A. P. Role of conditions and environmental factors in the development of myoglobinuria in horses. (In Russian.) *Veterinariia* 27(9):45-48. Sept. 1950. 41.8 V6426

37505 PEILLON, A. Considérations physiologiques sur le pied du cheval. *Monit. de la Mécan. Rur.* 43:389-390. Dec.1950. 58.8 M74

37506 POLIAKOV, D. K. Testing the specificity of the allergenic preparation, "anemin-VIEV" on horses—chronic sufferers from anemia. (In Russian.) *Veterinariia* 27(9):19-22. Sept.1950. 41.8 V6426

37507 POLKANOV, N. N., and DUBAKIN, N. I. On leptospirosis in horses. (In Russian.) *Veterinariia* 27(9):34-35. Sept.1950. 41.8 V6426

37508 RANNINGER, R. Nachdenkilches für die fohlenzeit. *Pflüg* 4:13-14. Jan.1951. 19 P48

37509 SASTRY, G. A. Angiosarcoma (haemangio-endothelioma) in the thorax of a mule. *Vet. Rec.* 63:145-147. Feb.24,1951. 41.8 V641

37510 SCHERMER, S., and SCHINDLER, R. Über die enzootische polymyositis der fohlen. *Deut. Tierärztl. Wehnschr.* 57:393-395. Ref. Dec.15,1950. 41.8 D482

37511 SCHINDLER, K. Darmparasiten bei pferden. *Tierärztl. Umschau* 6:52-54. Feb.1951. 41.8 T445

37512 SCHMIDT, K. Störungen der eierstocksfunktion bei der stute. *Monatsh. f. Vetmed.* 6:23-26. Ref. Jan.15,1951. 41.8 M742

37513 SCHUSTER, M. Geblüt, harnwinde, verschlag der pferde. *Bad. Landwirt. Wehnl.* 118:5. Jan.6,1951. 18 B142

37514 SMOLIAKOVA, G. K. Immunogenic properties of *Salmonella abortus equi* antigen. (In Russian.) *Veterinariia* 27(9):39. Sept.1950. 41.8 V6426

37515 SOBOLEV, N. S. Ocean swimming for horses. (In Russian.) *Konevodstvo* 20(8):40-42. Aug.1950. 42.8 K832

Therapeutic value.

37516 SOSOV, R. F. On new discoveries in biology. (In Russian.) *Veterinariia* 27(9):15-19. Sept.1950. 41.8 V6426

G. M. Bosh'fan's ideas on immunity in equine infectious anemia.

37517 STEARNS, D. C. Efficient equine euthanasia. *Blood-Horse* 61:525. Mar.10,1951. 42.8 T392

Use of Lethol.

37518 STOCKING, G. G., and others. Equine serum penicillin levels following injection of depo-penicillin. *Amer. Vet. Med. Assoc. J.* 118:161-163. Ref. Mar.1951. 41.8 Am3

J. L. Davidson, M. A. Troost, M. A. Nook, and C. Henshaw, joint authors.

37519 ŠUTTA, J. Operative treatment of an ovarian cyst in a mare. (In Czech.) *Časopis Českoslov. Vet.* 5:504-506. Nov.10,1950. 41.8 C27

37520 TANDA, S. The elastic tissue of the lungs of the horse considered at various ages. (In Italian.) *Clin. Vet.* 73:362-366. Ref. Dec.1950. 41.8 C61

37521 THIÉRY, J. P., and LUCAS, A. Sur l'anémie infectieuse des équidés. *Rev. de Path. Compar.* 50:717-727. Nov.1950. 44.8 R326  
Includes discussion.

37522 TILQUIN, A. Contribution à l'étude de la pathologie du poulain nouveau-né (étiologie et prophylaxie des maladies infectieuses). Paris, Foulon, 1950. 80 p. 41.2 T46

37523 UMEZU, M., and others. Judgement on the labouring ability of the horse infected with chronic "infectious anemia". *Tohoku J. Agr. Res.* 1:43-56. Mar. 1950. 22.5 T574

K. Nobuto, N. Asami, T. Haga, K. Kamoto, and T. Tuda, joint authors.

37524 VOLF, J. Tetanus in horse treated with penicilline. (In Czech.) *Časopis Českoslov. Vet.* 5:506. Nov.10,1950. 41.8 C27



37525 ZIJL, W. J. VAN. The electrocardiogram of the normal horse using the techniques of Einthoven and Wilson. Tijdschr. v. Diergeneesk. 76:85-96. Feb.1,1951. 41.8 T431

#### Miscellaneous

37526 ABSIL, J. Pas d'armes et carrousels du XVe au XIXe siècle. Paris, Foulon, 1950. 46 p. Ref. 42 Ab8 Thesis - École Nationale Vétérinaire d'Alfort.

37527 BOCHKAREV, K. Testing trotters. (In Russian.) Konevodstvo 20(8):44-45. Aug.1950. 42.8 K832

At the Moscow Hippodrome.

37528 EL CABALLO chileno. Rev. Ganad. [Habana] 11(3):14-16. Mar.1951. 49 R321

37529 CARSON, B. L. Equine art on the postage stamp. IV-V. Natl. Horseman 87(2):28;(3):32. Feb.-Mar.1951. 42.8 N21

37530 DAVYDOVA, L. P., and KARAUSH, O. N. Ural'sk stud-farm—winner at the All-union competition. (In Russian.) Konevodstvo 20(8):28-32. Aug.1950. 42.8 K832

37531 DENJEAN, Y. L'élevage des ânes et des mulets en Tunisie. B. Econ. et Social de la Tunisie 47: 25-28. Dec.1950. 280.8 B874

37532 FOREMAN, M. Horse handling science. 28. Cattleman 37(10):77-78. Mar.1951. 49 C20

37533 FUSSELL, G. E. Oddities of eighteenth century farriery: Francis Clater, William Griffiths and William Taplin. Vet. Rec. 63:162-164. Mar.3,1951. 41.8 V641

37534 GAYDABUROV, S. D. On developing and increasing the working characteristics of trotters. (In Russian.) Konevodstvo 20(9):27-32. Sept.1950. 42.8 K832

Horse training.

37535 GERBEX, R. F. Las marchas de fondo como demostración de aptitud. Asoc. Argentina de Fomento Equino. [Rev.] 42:82-83,85-86. Dec.1950. 42.9 As52

37536 GIBERTI, H. The role of the horse in Argentine farming. Rev. River Plate 109(3067):15-18. Feb. 23,1951. 286.8 R32

Draft horses and mechanization.

37537 GORELOV, K. I. At the Moscow Hippodrome. (In Russian.) Konevodstvo 20(8):42-44. Aug.1950. 42.8 K832

Testing Thoroughbred saddle horses.

37538 KOROL'KOV, A. On care of foals in droves. (In Russian.) Konevodstvo 20(9):38-40. Sept.1950. 42.8 K832

37539 KOZHEVNIKOV, E. V., and BLAZHKEVICH, F. Proper preparation for winter maintenance of horses. (In Russian.) Konevodstvo 20(8):1-4. Aug.1950. 42.8 K832

37540 MASCARO, L. A. Entrenamiento de los caballos "marcheros". Argentina. Dir. Gen. de Remonta y Vet. Rev. de Vet. y Fomento Equino 10(39):59-64. Dec.1950. 42.8 R32

37541 PERUSINI, G. P. The intelligence of the horse. (In Italian.) Allevatore 6(51/52):6. Dec.24,1950. 49 AL55

37542 SALCES, F. El fomento equino en nuestro país y en el ejército. X-XI. Argentina. Dir. Gen. de Remonta y Vet. Rev. de Vet. y Fomento Equino 10(39):19-36. Dec. 1950. 42.8 R32

X, Monta pública; XI, Pruebas selectivas.

37543 SPROULE, J. Modern horse training. Canad. Cattleman 14(2):46-47. Feb.1951. 49 C16

37544 SYRESIN, I. From the practice of keeping pedigree stallions in a cold stable. (In Russian.) Konevodstvo 20(9):40-42. Sept.1950. 42.8 K832

37545 WILLIAMSON, C. O. Training the parade horse. West. Horseman 16(4):23,38-39. Apr.1951. 42.8 W522

#### LABORATORY ANIMALS, SMALL

##### Breeds and Breeding

37546 DONALD, M. N. An old timer writes about cavy standards. Amer. Small Stock Farmer 35(6):8. Mar.1951. 48.8 J82

37547 TAYLOR, C. V. B. Commercially speaking. All-Pets Mag. 22(2):67,69. Feb.1951. 48.8 AL5 Breeding cavies.

##### Feeds and Feeding

37548 FARMER, F. A., and others. The vitamin E requirement of guinea pigs. J. Nutr. 42:309-318. Ref. Oct.10,1950. 389.8 J82

B. C. Mutch, J. M. Bell, L. D. Woolsey, and E. W. Crampton, joint authors.

##### Veterinary Medicine

37549 BARONE, R., BERTRAND, M., and DESENCLOS, R. Recherches anatomiques sur les ganglions lymphatiques des petits rongeurs de laboratoire (cobaye, rat et souris). Rev. de Méd. Vét. [Toulouse] 101: 423-437. Aug./Sept.1950. 41.8 R32

37550 REID, M. E. Ascorbic acid metabolism in guinea pigs in relation to growth. J. Nutr. 42:347-358. Ref. Nov.10,1950. 389.8 J82

##### Miscellaneous

37551 GRABER, J. M. Pets and actors. All-Pets Mag. 22(2):66,68-69. Feb.1951. 48.8 AL5 Hamsters.

37552 MAINARDI, B. Raising of laboratory animals. (In Italian.) Humus 6(11):30. Nov.1950. 16 H88

##### POULTRY

##### Breeds and Breeding

37553 ALLEN, N. D. What is the best strain in racers? Amer. Pigeon J. 40:79. Mar.1951. 47.8 Am35

37554 BARACHO, J. A. In praise of the White Leghorn. (In Portuguese.) Chacaras e Quintais 83:189-190. Feb.15,1951. 9.2 C34

37555 BARLEY, H. D. My methods of breeding. Poultry Assoc. Gt. Brit. Ybk. 1951:69-74. 47.9 P864Y

37556 BELAIRE, P. A. The foundation of poultry breeding. Poultry Press 37(8):3. Feb.15,1951. 47.8 P8643

37557 BLOW, W. L., and others. Inheritance of fertility in turkeys. Poultry Sci. 30:313-314. Mar.1951. 47.8 Am33P

E. W. Glazener, R. S. Dearstyne, and C. H. Bostian, joint authors.

37558 BURGSTALLER, L. Aufbau einer New Hampshire-herdbuchzucht. Deut. Wirtgeflügelzucht. 3:182. Jan.20,1951. 47.8 D483

37559 BYWATERS, J. H., and HOLMES, C. E. Full brother diallel cross in poultry. (Abs.) Va. J. Sci. (n.s.) 1:336. Sept.1950. 470 V81

37560 CARPENTER, D. J. Superior blood lines; line breeding is a logical means of fixing desired characteristics uncovered by progeny testing. Poultry World 88:98. Feb.1,1951. 47.8 P8682

37561 CAVIA, E. C. Es ventajosa la cría de patos Kaki Campbell. Chacara 21(243):46-47. Feb.1951. 9 C34

37562 CHAMBERLAIN, S. A. Methods for combating infertility in the Rouen. Mag. Ducks & Geese 2:9. Winter 1951. 47.8 M27

37563 CHESBRO, M. D. The old and new. Careful procedure required to collect authentic information about old breeds of Game fowl. Grit & Steel 52:34. (To be cont.) Mar.1951. 47.8 G88

37564 COLEMAN, G. E., JR. Scientific [poultry] breeding for meat production. New Eng. Homestead 124 (3):13. Feb.10,1951. 6 N442

37565 COLES, R. To which group do you belong? Poultry World 88:97. Feb.1,1951. 47.8 P8682 Poultry breeding.

37566 DAKAN, E. L. Poultry breeding? It's hard to explain. Ohio Farmer 207(4):42-45. Feb.17,1951. 6 Oh3

37567 FUNK, C. W. Keystoneers develop better cross-bred chicks. News Farmer Coop. 17(12):7. Mar.1951. 166.2 N47

37568 GALLEGU PIEDRAFITA, J. Spanish breeds of chickens: the origin of the Utrera breed. World's Poultry Sci. J. 7:26-31. Jan./Mar.1951. 47.8 W89

37569 GILBREATH, J. C. Improving our broiler stock. Ark. Poultry Impr. Assoc. Ybk. 1951:54,56. 47.9 Ar4

37570 GRIESBACH, L. Purebreeding, crossbreeding and hybridizing in poultry flocks. Marit. Farmer & Coop. Dairyman 56(11):3,33. Mar.6,1951. 7 C77

37571 GROW, O. Toulouse that win. Mag. Ducks & Geese 2:13. Winter 1951. 47.8 M27



37572 HALL, M. D. The breeding and feeding of geese. Victoria. Dept. Agr. J. 49:19-21. Jan.1951. 23 V66J

37573 HARDY, W. H. Turkey broilers are becoming more popular. These turkeys, available throughout the year in conveniently small sizes, may revolutionize the turkey industry to the benefit of both consumers and producers. Everybodys Poultry Mag. 56(3):10,35-37. Mar. 1951. 47.8 F213P

#### Use of Beltsville Small Whites.

37574 HEPBURN, J. M. Peking ducks brought from China; breed was introduced to United States 78 years ago; fattens quickly. Austral. Farm & Home 60:95-96. Jan.1,1951. 23 Au7

37575 HOEKZEMA, J. P. Hybrid chicks are result of inbreeding and crossing. Ind. Farmers Guide 107(2): 6,14. Jan.15,1951. 6 In2

37576 HUTT, F. B. Triple shifts for cockerel tests. Poultry Indus. [Milford] 16:120-121. Feb.22,1951. 47.8 P8644

37577 IYER, S. G. Breeds of poultry suitable for Indian conditions. Indian Vet. J. 27:180-181. Nov.1950. 41.8 In2

37578 JAENISCH, E. Eine neue hühnerrasse: New Hampshire. Deut. Wirtgeflügelzucht. 3:181. Jan.20,1951. 47.8 D483

37579 KLEIN, G. T. Mass. Annual Poultry Breeders School. Poultry Indus. [Boston] 55(2):16-17. Feb.1951. 47.8 N44

37580 KUSHNER, KH. F., and AL'PEROVICH, KH. B. Experiment in studying the breeding value of hybrid hens. (In Russian.) Akad. Nauk SSSR. Dok. 74:1127-1130. Oct.21,1950. 511 P444A

37581 LERNER, I. M. Improved egg size; high heritability of egg weight gives rapid response to selective breeding. Calif. Agr. [Calif. Sta.] 4(12):6. Dec.1950. 100 C12Cag

37582 LINDEN, C. G. VAN DER. Le pigeon voyageur. Paris, Payot, 1950. 186 p. (Bibliothèque Scientifique) 47.2 L64

37583 LLOYD-THOMAS, W. For the goose-keeper: handle the Chinese cross with care. Mod. Poultry Keeping 64:167. Feb.14,1951. 47.8 Eg3

37584 LÜHMANN, M. Moschusenten. Deut. Wirtgeflügelzucht. 3:183. Jan.20,1951. 47.8 D483

37585 MCCLARY, C. F. Breeding makes a difference Washcoegg 28(9):12-13,23. Feb.1951. 47.8 W27

37586 MACKLIN, H. P. Pigeon portraits: the Snip or Spot pigeon. Amer. Pigeon J. 40:70-71. Mar.1951. 47.8 Am35

37587 MARSDEN, S. J., and MOORE, S. A. Guide for the selection of breeding turkeys. Poultry Indus. [Boston] 55(2):6-7. Feb.1951. 47.8 N44

37588 MUNRO, S. S. The new theory of heterosis. Co-op Chick News 23:4,12. Jan./Mar.1951. 47.8 C783

37589 OLSON, D. Beltsvilles are here to stay. Turkey growers are becoming more interested in the net income per turkey raised rather than the total tonnage produced. Co-op Chick News 23:12. Jan./Mar.1951. 47.8 C783

37590 PALACIOS CUETO, T. Algo sobre mestizos, por si pudiera ser útil a avicultores industriales. Valencia Avic. 7:26. Nov.1950. 47.8 V23

37591 POWELL-OWEN, W. Eyes on the breeding pens. Poultry World 88:120-121. Feb.8,1951. 47.8 P8682

37592 ROOS, M. J. Plymouth Rock Bantam. (In Dutch.) Pels en Pluim 6(3):1-2. Feb.9,1951. 47.8 P36

37593 STEPHENSON, A. B. Influence of inbreeding on egg production in the domestic fowl. Iowa State Col. J. Sci. 25:356-357. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).

37594 VAART, M. F. VAN DER. Feather-legged Saxon White Tail. (In Dutch.) Pels en Pluim 6(3):4. Feb.9,1951. 47.8 P36

37595 VAART, M. F. VAN DER. The Spanish White-Face. (In Dutch.) Pels en Pluim 6(1):4-5. Jan.12,1951. 47.8 P36

37596 VAITSMAN, J. New Northwester, a new poultry breed with noble pheasant blood. (In Portuguese.) Chacaras e Quintais 83:37-38. Jan.15,1951. 9.2 C34

37597 VRIES, E. DE. The Welsummers in our country! (In Dutch.) Pels en Pluim 6(1):4. Jan.12,1951. 47.8 P36

37598 WEAR, J. M., JR. Maintain fertility in breeder business. Norbest Turkey News 15(8):10. Feb. 1951. 47.38 N75

37599 WILCKE, H. L. Don't neglect those breeder ducks. Mag. Ducks & Geese 2:7-8. Winter 1951. 47.8 M27

#### Feeds and Feeding

37600 ANDERSON, J. O., COMBS, G. F., and BRIGGS, G. M. Niacin-replacing value of L- and DL-tryptophan in chick diets as influenced by carbohydrate source. J. Nutr. 42:463-471. Ref. Nov.10,1950. 389.8 J82

37601 AUBOL, W. F. Poultry rations and feeding. Nebr. Agr. Col. Ext. E. C. 1496, rev., 8 p. Feb.1951. 275.29 N272Ex

37602 BIRD, H. R. Nutritive requirements and feed formulas for chickens. U. S. D. A. C. 788, rev., 28 p. Dec.1950. 1 Ag84C

37603 BRIGGS, G. M., SLOAN, H. J., and PILKEY, A. M. Turkey rations studies at Crookston [Experiment Station] in 1950. Minn. Gobblers 5(9):10,26-27. Feb.1951. 47.38 M66

37604 BROWN, W. O. Liver meal as a riboflavin supplement for breeding hens. J. Sci. Food & Agr. 2:43-46. Jan.1951. 382 So12

37605 BUTTNER, E. E. Pigeon feeding experiments. So. African Poultry, Pigeon & Bird Mag. 78(469):26,13; (470):26,15. (Cont.) Feb.-Mar.1951. 47.8 So83

37606 CARLSON, C. W. The effect of antibiotics on turkey egg hatchability and poul growth. S. Dak. Farm & Home Res. [S. Dak. Sta.] 2:31-33. Winter 1951. 100 So82S

37607 COUCH, J. R., and others. Vitamin B12, APF concentrates, dried whey, fish solubles and liver fraction "L" in the nutrition of the mature fowl. J. Nutr. 42:473-485. Ref. Nov.10,1950. 389.8 J82

O. Olcese, B. G. Sanders, and J. V. Hallick, joint authors. 37608 COUCH, J. R., and OLCESE, O. The vitamin B12 content of chick tissues as influenced by the diet. J. Nutr. 42:337-346. Ref. Nov.10,1950. 389.8 J82

37609 CRAVENS, W. W. Nutrition in the breeding cycle of the chicken. Feedstuffs 23(5):34,36,38-40,42. Feb.3,1951. 286.81 F322

37610 CRAVENS, W. W. Recent developments in poultry nutrition. Feedstuffs 23(8):56-57,60. Feb.24,1951. 286.81 F322

37611 CSONKA, F. A. Nitrogen, methionine and cystine content of hen's eggs. Their distribution in the egg white and yolk. J. Nutr. 42:443-451. Nov.10,1950. 389.8 J82

#### Nutrition experiments.

37612 EDEN, A. The use of home grown foods for egg production. Poultry Assoc. Gt. Brit. Ybk. 1951:78-84. 47.9 P864Y

37613 EWINS, A. The role of vitamins in poultry nutrition. Poultry Assoc. Gt. Brit. Ybk. 1951:94-101. 47.9 P864Y

37614 GRAU, C. R. Flexible formulation of tomorrow's poultry feeds. Nulaid News 28(10):14-15. Mar. 1951. 47.8 N917

37615 HALICK, J. V., and COUCH, J. R. Antibiotics in mature fowl nutrition. Soc. Expt. Biol. & Med. Proc. 76:58-62. Ref. Jan.1951. 442.9 So1

37616 HENDRIX, C. H. Turkey feeds—today and yesterday. (Excerpts.) Grain & Feed J. Consolidated 106(5):25,27. Mar.14,1951. 298.8 G762

37617 HEUSER, G. F., and SCOTT, M. L. Studies in duck nutrition. 1-2. Poultry Sci. 30:161-167. Mar.1951. 47.8 Am33P

37618 HUNTER, H. R. A few grouses. Poultry Indus. [Milford] 16:117. Feb.22,1951. 47.8 P8644  
On poultry feed program in Great Britain.

37619 JOHNSON, E. A. Rations fed to breeder hens vitally affect their chicks. Calif. Farmer, North. Ed. 194:254. Mar.10,1951. 6 C126

37620 KENNARD, D. C., and CHAMBERLIN, V. D. B12 changes poultry feeding needs. Ohio Farm & Home Res. [Ohio Sta.] 35:78-79. Nov. Dec.1950. 100 Oh3S

37621 KODRAS, R., COONEY, W. T., and BUTTS, J. S. Chick growth depressing factor in sun-cured and dehydrated alfalfa meals. Poultry Sci. 30:280-292. Ref. Mar.1951. 47.8 Am33P

37622 KOLOBOV, G., and PANOVA, V. Poultry fattening on Kalachev poultry state farm. (In Russian.) Mifsnafn Indus. SSSR. 21(4):67-70. July/Aug.1950. 50.8 M58



- 37623 LEWIS, E. W., JR., ELVEHJEM, C. A., and HART, E. B. Studies on the nature of the nutritional deficiencies of wheat gluten meal. *J. Nutr.* 43:113-130. Ref. Jan.10,1951. 389.8 J82  
Experiments with poultry.
- 37624 LIVET, L. La nourriture des poules. *Paysan Franç.* 26(398):8. Feb.1951. 14 P29
- 37625 MCCLYMONT, G. L., DUNCAN, D. C., and WILKINS, S. Grain sorghum can replace wheat in laying rations. *Agr. Gaz. N. S. Wales* 61:656,665. Dec.1,1950. 23 N472
- 37626 MCGINNIS, J. Antibiotics as growth stimulants for chicks and turkey poults. *Rur. New-Yorker* 101:117-118. Feb.3,1951. 6 R88
- 37627 MARCH, B., BIELY, J., and TONZETICH, J. Supplementation of wheat with amino acids in the diet of the chick. *J. Nutr.* 42:565-575. Ref. Dec.11,1950. 389.8 J82
- 37628 MARLOW, H. W. Cow feces and chick development. *Science* 113:326-327. Mar.23,1951. 470 Sci2
- 37629 MENGE, H., MORENG, R. E., and COMBS, G. F. Effect of yolk removal in day-old chicks on early nutritional requirements. *Soc. Expt. Biol. & Med. Proc.* 76:46-49. Ref. Jan.1951. 442.9 So1
- 37630 NORRIS, L. C. Studies on the folic acid requirements of chickens. *Feedstuffs* 23(6):32. Feb.10, 1951. 286.81 F322
- 37631 NORRIS, R. C., MILLER, R. F., and YACOWITZ, H. How much vitamin B<sub>12</sub> is needed by chickens? (Excerpts.) *Grain & Feed J. Consolidated* 106(5):31-34. Mar.14,1951. 298.8 G762
- 37632 PARTHASARATHY, D., and IYER, S. G. The feeding of single cereals to poultry. *Indian Vet. J.* 26:506-507. May 1950. 41.8 In2
- 37633 PATTON, A. R. Chickens need amino acids. *Everybody's Poultry Mag.* 56(3):7,40-41. Mar.1951. 47.8 F213P
- 37634 PERUCHON, J. El secreto de la fabricación de los alimentos compuestos y la obra del Prof. Kind. *Reus Avíc.* 21:12,14-15. Jan.1951. 47.8 R31
- 37635 PETERSEN, N. Neues über den eiweissbedarf der hühner. *Kleintierzüchter Tierbörse* 5:2. Jan.1,1951. 49 K672
- 37636 PETERSON, D. W. Alfalfa meal in chick rations. *Flour & Feed* 51(10):20. Mar.1951. 298.8 F66
- 37637 PETERSON, D. W. Effect of sterols on the growth of chicks fed high alfalfa diets or a diet containing quillaja saponin. *J. Nutr.* 42:597-607. Ref. Dec.11,1950. 389.8 J82
- 37638 PLATT, C. S. A study of the composition of mineral mixtures for pigeons. *Poultry Sci.* 30:196-198. Mar.1951. 47.8 Am33P
- 37639 PREVO, A. A. Organizing the fattening of poultry. (In Russian.) *Sotsialist. Zhivotnovod.* 12(9):72-75. Sept.1950. 49 So71
- 37640 REISER, R. The essential role of fatty acids in rations for growing chicks. *J. Nutr.* 42:319-323. Nov.10,1950. 389.8 J82
- 37641 ROBINSON, L. Those home-mixed chick mashers. *Mod. Poultry Keeping* 64:142-143. Feb.7,1951. 47.8 Eg3
- 37642 ROMAGOSA VILÀ, J. A. La vitamina D en la alimentación de los polluelos. *Ganadería [Madrid]* 8:616-617. Oct.1950. 49 G15
- 37643 SCHLAMB, K. F., and BRYANT, R. L. Skim milk and grain for laying hens. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:104-106. Jan./Feb.1951. 100 N813B
- 37644 SCOTT, M. L. The grass juice factor in turkey nutrition. *Poultry Sci.* 30:293-297. Mar.1951. 47.8 Am33P
- 37645 SINGSEN, E. P. Antibiotics and vitamin B<sub>12</sub> in poultry rations. *New Eng. Homestead* 124(3):32-33. Feb. 10,1951. 6 N442
- 37646 SLINGER, S. J. Save weeks raising turkeys by use of B<sub>12</sub>, antibiotics, Guelph College trials show. *Milling & Feed* 32(2):14,19. Feb.1951. 298.8 C162
- 37647 STEVENSON, E. L. Feeding for hatchability. *Ark. Poultry Impr. Assoc. Ybk.* 1951:64-65. 47.9 Ar4
- 37648 SWENSON, M. J. Effect of vitamin B<sub>12</sub> and of animal proteins on the histopathology and hematology of chicks receiving an all-plant ration. *Iowa State Col. J. Sci.* 25:361-363. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 37649 TERRÁDEZ RODRÍGUEZ, J. Algunas consideraciones alrededor del problema de la alimentación de las aves domésticas. 1. Valencia Avíc. 7:23-26. Dec. 1950. 47.8 V23
- 37650 THAYER, R. H. The effect of antibiotic feeding on the nutritive requirements of the chick. *Feedstuffs* 23(9):62-63. Mar.3,1951. 286.81 F322
- 37651 VECIANA VERGES, J. M. Alimentación. Vitaminas. *Reus Avíc.* 21:1-3,5. Jan.1951. 47.8 R31
- 37652 WASHINGTON. STATE COLLEGE. POULTRY COUNCIL. Feeding and management of chicks and pullets. *Wash. State Col. Ext. B.* 356,8 p. Jan.1951. (Poultry Pointers 14, rev.) 275.29 W27Pou
- 37653 WEAVER, L. Antibiotics in poultry feeds. *Amer. Agr.* 148:177,191. Mar.17,1951. 6 Am3
- 37654 WORTHINGTON, J. Home grain and no regrets. *Farmers Wk. [London]* 34(8):61. Feb.23,1951. 10 F2226  
Egg production.
- 37655 ZACHARIAS, L., GOLDBABER, P., and KINSEY, V. E. Vitamin E deficiency in chicks. I-II. *J. Nutr.* 42:359-373,453-462. Ref. Nov.10,1950. 389.8 J82

### Veterinary Medicine

- 37656 ABERCROMBIE, M. The effects of antero-posterior reversal of lengths of the primitive streak in the chick. *Roy. Soc. London. Philos. Trans. Ser. B, Biol. Sci.* 234:317-338. Ref. June 29,1950. 501 L84Pb
- 37657 ALBERTS, J. O., and GRAHAM, R. Fowl cholera. III. *Agr. Col. Ext. C.* 670,8 p. Nov.1950. 275.29 IL62C
- 37658 ALMQUIST, H. J., and MERRITT, J. B. Effects of vitamin B<sub>12</sub> and crystalline aureomycin on growth of poults. *Poultry Sci.* 30:312. Mar.1951. 47.8 Am33P
- 37659 ANCEL, P., and COURTIAL, J. Sur l'apparition spontanée de la gueule de loup chez l'embryon de poule. *Acad. des Sci. Compt. Rend.* 231:1390-1392. Dec.18,1950. 505 P21
- 37660 ASPEREN, K. VAN. The metabolism of orally administered 4-methyl-2-thiouracil (mtu) in cockerels. (In Dutch.) *Tijdschr. v. Diergeneesk.* 76:133-155. Ref. Feb.15,1951. 41.8 T431  
English summary.
- 37661 AXWORTHY, R. Ailments and diseases of the young bird. 1-3. *Poultry [London]* 108:127,170,190. Feb.13,27-Mar.6,1951. 47.8 P869
- 37662 BEACH, J. R. Some significant findings from research on poultry viruses. *Cornell Vet.* 41:81-99. Ref. Jan.1951. 41.8 C81
- 37663 BEARD, W. A. Pullorum disease. *No. Amer. Vet.* 32:164. Mar.1951. 41.8 N812
- 37664 BERG, L. R., HAMILTON, C. M., and BEARSE, G. E. The effect of coccidiosis (caused by *Eimeria maxima*) on egg quality. *Poultry Sci.* 30:298-301. Ref. Mar.1951. 47.8 Am33P
- 37665 BOLIN, F. M., and TURN, J. Nonclinical listeriosis of the chicken. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:107-108. Jan./Feb.1951. 100 N813B
- 37666 BOLOG, D. S. Mr. Poultryman, use hormone to increase your net profit. *Agr. & Indus. Life* 13:7. Jan.1951. 25 Ag8
- 37667 BRAEUTIGAM, H. D. Sex—can it be controlled? *Grit & Steel* 52(10):31. Feb.1951. 47.8 G88
- 37668 BRENNEMAN, W. R. A factorial analysis of pituitary-gonad-comb relationships in the chick. 1. Action of pregnant-mare-serum and testosterone-propionate on androgen secretion. *Poultry Sci.* 30:231-239. Mar.1951. 47.8 Am33P
- 37669 BUCKNER, G. D., and others. Influence of vitamin D on the growth of New Hampshire cockerels, their combs, wattles, gonads, and uropygeal glands. *Poultry Sci.* 30:267-268. Mar.1951. 47.8 Am33P  
W. M. Insko, Jr., A. H. Henry, and E. F. Wachs, joint authors.
- 37670 CARSON, J. R. Exposure to disease agents of strains of chickens differing in resistance to leucosis. *Poultry Sci.* 30:213-230. Ref. Mar.1951. 47.8 Am33P
- 37671 CECCARELLI, A. Experimental researches about a strain of *Pasteurella pseudotuberculosis* isolated from a pigeon. (In Italian.) *Riv. di Biol.* 42:321-338. Ref. July/Sept.1950. 442.8 R52  
English summary.
- 37672 COLE, R. K., and HUTT, F. B. Evidence that eggs do not transmit leucosis. *Poultry Sci.* 30:205-212. Ref. Mar.1951. 47.8 Am33P



- 37673 COLLIER, W. A. Die hemmung der Newcastle-virus-haemagglutination durch normale menschensera. Berlin. u. Münch. Tierärztl. Wchnschr. 1951:9. Ref. Jan. 1951. 41.8 B45
- 37674 COOPER, J. B., and others. Effect of sulfamerazine on pullorum reactors. Poultry Sci. 30:249-254. Mar. 1951. 47.8 Am33P
- C. L. Morgan, G. W. Anderson, and J. C. Jones, joint authors.
- 37675 DALLING, T. The new form of fowl pest. Brit. Farmer 31:14. Jan. 31, 1951. 281.8 B77
- Newcastle disease.
- 37676 DRIGGERS, J. C., and others. The transference of radioactive calcium and phosphorus from hen to chick. Poultry Sci. 30:199-204. Mar. 1951. 47.8 Am33P
- R. L. Shirley, G. K. Davis, and N. R. Mehrhof, joint authors.
- 37677 FABRICANT, J. Studies on the diagnosis of Newcastle disease and infectious bronchitis. IV. The use of the serum neutralization test in the diagnosis of infectious bronchitis. Cornell Vet. 41:68-80. Jan. 1951. 41.8 C81
- 37678 FLAD, A. Eine mangelkrankheit ohne vitaminbeteiligung; (unentbehrlichkeit der stäinchen-nahrung). Deut. Wirtgeflügelzucht. 3:162-163. Jan. 6, 1951. 47.8 D483
- Poultry.
- 37679 GILDOW, E. M. How shall we control Newcastle disease. Albers Egg Maker 27:11,14,16. Spring 1951. 47.8 AL1
- 37680 GILLIS, M. B. Further studies on the role of potassium in growth and bone formation. J. Nutr. 42:45-57. Ref. Sept. 11, 1950. 389.8 J82
- Includes chicks.
- 37681 GOLDSBY, A. I. Poultry parasites new to North Dakota. N. Dak. Agr. Expt. Sta. Bimon. B. 13:121-122. Jan./Feb. 1951. 100 N813B
- 37682 GORDEUK, S. JR., and BRESSLER, G. O. Infectious bronchitis; its effect on rate of egg production and egg quality. Pa. Agr. Expt. Sta. Prog. Rpt. 36,4 p. Nov. 1950. 100 P381P
- 37683 GORDON, R. F. Fowl pest. Poultry Field 3 (21):7. Mar. 1, 1951. 47.8 P8655
- Newcastle disease in Great Britain.
- 37684 GRAHAM, R. Incubator hygiene for control of incubator-spread chick diseases. Ill. Agr. Col. Ext. C. 674,7 p. Dec. 1950. 275.29 IL62C
- 37685 GUALANDI, G. Research on hemagglutination inhibition and immunity in chickens vaccinated with formulated and living (Hertfordshire strain) embryonal vaccine. (In Italian.) Clin. Vet. 73:289-298. Ref. Oct. 1950. 41.8 C61
- Newcastle disease.
- 37686 GWATKIN, R., and DZENIS, L. Fowl typhoid. I. Comparison of antigenicity of sixteen [Salmonella] gallinarum antigens. Canad. J. Compar. Med. 15:15-20. Jan. 1951. 41.8 C162
- 37687 HAMBURGER, V., and HAMILTON, H. L. A series of normal stages in the development of the chick embryo. J. Morph. 88:49-92. Jan. 1951. 444.8 J826
- 37688 HAUG, P. Experimentelle untersuchungen zur sulfonamidtherapie bei der hühnerkokzidiose. Monatsh. f. Prakt. Tierheilk. 2:342-368. Ref. 1950. 41.8 M74
- 37689 HICKS, A. F., JR. Crooked toes; poultry defect may be hereditary, nutritional or managerial in type. Gleaner 5:9-10. Jan. 1951. 6 G472
- 37690 HILBERT, K. F. Renal coccidiosis in a goose on Long Island. Cornell Vet. 41:54-55. Jan. 1951. 41.8 C81
- 37691 HOOGENDOORN, J. Transmission of diseases in the brooder. (In Dutch.) Pluimveeteelt 4(3):7. Feb. 2, 1951. 47.8 P722
- 37692 HSIANG, C. M., and PACKCHANIAN, A. A comparison of eleven antibiotics in the treatment of *Borrelia anserina* infection (spirochetosis) in young chicks. Tex. Rpt. Biol. & Med. 9:34-45. Spring 1951. 448.8 T31
- 37693 HUTT, F. B. The control of leucosis in the fowl. World's Poultry Sci. J. 7:16-25. Ref. Jan./Mar. 1951. 47.8 W89
- 37694 JANSEN, J., and KUNST, H. The egg as culture media for *Vibrio fetus*. (In Dutch.) Tijdschr. v. Diergeneesk. 76:178-180. Mar. 1, 1951. 41.8 T431
- English summary.
- 37695 JOSHUA, J. O. Domestic poultry and rabbits. Vet. Rec. 63:157-162. Mar. 3, 1951. 41.8 V641
- Includes discussion.
- Diseases.
- 37696 KASCHULA, V. R. The epizootiology of Newcastle disease and its control by vaccination. So. African Vet. Med. Assoc. J. 21:134-140. Ref. Dec. 1950. 41.8 So8
- 37697 KLINE, I. T., DORFMAN, R. I., and MCCREERY, P. Testosterone stimulation of the oviduct in vitamin-deficient chicks. Endocrinology 48:39-43. Jan. 1951. 448.8 En2
- 37698 KOMAROV, A. Vaccines for the control of infectious diseases of poultry. (In Hebrew.) Hassadeh 31:40-42. Oct. 1950. 26 H27
- 37699 KUPROWSKI, M. Enterohepatitis infectiosa of turkeys on the terrains of Wrocław district. (In Polish.) Med. Weter. 6:461-463. Aug. 1950. 41.8 M463
- 37700 LAGOS U., J. A. El huevo de la gallina y origen de ésta. Rev. de Agr. [San José] 23:12. Jan. 1951. 8 Es1
- 37701 LAHOZ, V. La tuberculosis en las aves. Reus Avic. 21:6-7. Jan. 1951. 47.8 R31
- 37702 LEVINE, P. P. Infectious bronchitis. East. Feed Merchant 2(3):34,36. Mar. 1951. 389.78 Ea7
- In poultry.
- 37703 MCHENRY, S. Vaccinate your flock. Del. U. Agr. Ext. Folder 21,3 p. Apr. 1950. 275.29 D37W
- 37704 MARION, L. La désinfection et le déparasitage des basses-cours. Avicult. Basse-Cour 7:12-13. Jan. 1951. 47.8 Av53
- Housing sanitation and pest and parasite control.
- 37705 MARSHALL, M. E., and DEUTSCH, H. F. Distribution of egg white proteins in chicken blood serum and egg yolk. J. Biol. Chem. 189(1):1-9. Ref. Mar. 1951. 381 J824
- 37706 MASSACHUSETTS. POULTRY DISEASE CONTROL LABORATORY. Thirtieth annual report of pul-lorum disease eradication in Massachusetts. Mass. Agr. Expt. Sta. Control Ser. B. 146,11 p. July 1950. 100 M38H
- 37707 MEINKOTH, N. A. Host-parasite relations of the fowl tapeworms *Railletina cesticillus* and *Choanotaenia infundibulum*. Urbana, 1950. 6 p. 436 M474
- 37708 MOHTEDA, S. N. Avian coccidiosis (a brief review). Indian Vet. J. 27:201-204. Nov. 1950. 41.8 In2
- 37709 MOORE, A. C. Disease-resistant stock should be our long-term anti-[fowl] pest policy. Poultry [London] 108:108. Feb. 6, 1951. 47.8 P869
- Newcastle disease.
- 37710 MORENG, R. E., and SHAFFNER, C. S. Lethal internal temperatures for the chicken, from fertile egg to mature bird. Poultry Sci. 30:255-266. Mar. 1951. 47.8 Am33P
- 37711 NEYFAKH, A. A. Investigation of role of eye embryo in the development of the cornea in chicks. (In Russian.) Akad. Nauk SSSR. Dok. 75:141-144. Nov. 1, 1950. 511 P444A
- 37712 NESENI. Hormon-kapauner durch Folioestrol T. Tierzucht 3:54-56. May 1950. 49 T443
- 37713 NICOL, G. Control of fowl pox; tests with pigeon-pox vaccine. Victoria. Dept. Agr. J. 48:543-545. Dec. 1950. 23 V66J
- 37714 OLSON, N. O. The use of streptomycin and dihydrostreptomycin for infectious sinusitis in turkeys. Amer. Vet. Med. Assoc. J. 118:174-175. Mar. 1951. 41.8 Am3
- 37715 PACHEFF, H. P. Études sur étiologie de la paralysie infectieuse des poules. (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis. 18(2):105-108. 1950. 106.3 R32
- French summary.
- 37716 PHILLIPS, C. E. Poultry diseases. Ark. Poultry Impr. Assoc. Ybk. 1951:58,60-61. 47.9 Ar4
- 37717 POLO JOVER, F. Leucosis aviar. B. de Divulg. Ganad. [Ciudad Real] 5(52/54):37-42. (To be cont.) July/Sept. 1950. 49.9 Sp14
- 37718 PRIER, J. E., and DART, G. Immunological and serological studies on infectious sinusitis of turkeys. Cornell Vet. 41:38-46. Jan. 1951. 41.8 C81
- 37719 RAO, S. B. V., and others. Studies on avian leucosis complex (fowl paralysis). Indian Vet. J. 26:497-506. Ref. May 1950. 41.8 In2
- J. Das, D. R. Ramnani, and S. G. Iyer, joint authors.



37720 REAGAN, R. L., and others. The response of chickens vaccinated against Newcastle disease virus to three methods of challenge. *Poultry Sci.* 30:184-186. Mar.1951. 47.8 Am33P  
C. R. Davis, H. O. Werner, and A. L. Brueckner, joint authors.

37721 REAGAN, R. L., and BRUECKNER, A. L. Response of the cave bat (*Myotis lucifugus*) to Newcastle disease virus by various methods of exposure. *Cornell Vet.* 41:56-57. Jan.1951. 41.8 C81

37722 REDMOND, W. B., RUNYON, L. C., and POLLITZER, W. S. Erythrocyte sedimentation rate in pigeons infected with *Plasmodium relictum*. *J. Parasitol.* 37:48-55. Ref. Feb.1951. 44.8 J824

37723 REISER, R. The metabolism of polyunsaturated fatty acids in growing chicks. *J. Nutr.* 42:325-336. Ref. Nov.10,1950. 38.9 J82

37724 RINDFLEISCH, M. Die luftsäcke des geflügels: ihre bedeutung und ihre erkrankungen. *Deut. Wirtgeflügelzucht*, 3:169-170. Jan.13,1951. 47.8 D483

37725 ROBERTS, C. S. Diagnostic notes: pullorum testing of turkeys in Alabama. *Auburn Vet.* 7:69-70. Winter 1951. 41.8 Aul

37726 ROEPKE, W. J. On disease control and the sending of specimens to be tested by the Poultry Health Service. (In Dutch.) *Pluimveeteelt* 4(1):1-2. Jan.5,1951. 47.8 P722

37727 ROLLE, M., ILUKEWITSCH, A., and MUNDT, W. Über den erregter des ansteckenden schnupfens der hühner (*Coryza infectiosa gallinarum*). Berlin. u. Münch. Tierärztl. Wchnschr. 1951:14-16. Ref. Jan.1951. 41.8 B45

Organism is a penicillate fungus.

37728 ROOS, M. J. A talk on central hatcheries. (In Dutch.) *Pluimveeteelt* 4(4):2-3. Feb.16,1951. 47.8 P722  
Chiefly on transmission of diseases.

37729 ROSENBERG, M. M., and PALAFOX, A. L. The effect of creeping indigo (*Indigofera endecaphylla*) on laying chickens. *World's Poultry Sci. J.* 7:9-15. Jan./Mar.1951. 47.8 W89

37730 SAN GABRIEL, G. L. Coccidiosis in chickens. *Philippine Livestock Mag.* 6,i.e.1:279-280. Oct./Nov. 1950. 49 P53

37731 SCHWABE, C. W. Studies on *Oxyuris mansoni*, the tropical eyeworm of poultry. II. Life history. *Pacific Sci.* 5:18-35. Ref. Jan.1951. 47.5 P11

37732 SCOTT, M. L. Studies on enlarged hock disorder of turkeys. (Sum.) *Feedstuffs* 23(5):18-19. Feb. 3,1951. 28.6 F322  
Nutritional experiments.

37733 SEETHARAMAN, C., and SHARMA, G. L. *Staphylococcus* infection in chicks. *Indian J. Vet. Sci. & Anim. Husb.* 19:215-217. Sept.1949,pub.1950. 41.8 In22

37734 SIEBURTH, J. M., and others. Effect of antibiotics on intestinal microflora and on growth of turkeys and pigs. *Soc. Expt. Biol. & Med. Proc.* 76:15-18. Ref. Jan.1951. 44.2 S01

J. Gutierrez, J. McGinnis, J. R. Stern, and B. H. Schneider, joint authors.

37735 SOPIKOV, P. M. Importance of ultraviolet rays for the prevention of mineral and vitamin metabolic diseases. (In Russian.) *Veterinariia* 27(9):50-51. Sept. 1950. 41.8 V6426

Experiments with chicks.

37736 SOUZA, O. P. C. DE. Pullorum disease. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 14:138. July/Dec.1950. 9.2 R325

37737 SPARAPANI, G. C. Avian salmonellosis and its relation to public health. (In Italian.) *Italia Agr.* 88: 31-38. Ref. Jan.1951. 16 It1

37738 STURKIE, P. D., and NEWMAN, H. J. Plasma proteins of chickens as influenced by time of laying, ovulation, number of blood samples taken and plasma volume. *Poultry Sci.* 30:240-248. Ref. Mar.1951. 47.8 Am33P

37739 TABER, E. Androgen secretion in the fowl. *Endocrinology* 48:6-16. Ref. Jan.1951. 44.8 En2

37740 TORYU, Y. Appearance of glycogen and Nissl's bodies in the nerve cells of the chick embryo. *Tohoku J. Agr. Res.* 1:35-42. Mar.1950. 22.5 T574

37741 TRENCHI, H. The importance of health in poultry keeping. I-II. (In Portuguese.) *Chacaras e Quintais* 83:58-61,207-209. Jan.15-Feb.15,1951. 9.2 C34

37742 TRENCHI, H. Sinusitis infecciosa de los pavos. Uruguay. *Dir. de Ganad. B. Mens.* 31:379-404. Ref. July/Sept.1950. 41.9 Ur8

37743 VAITSMAN, J. Coccidiosis of chicks. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 14:142. July/Dec. 1950. 9.2 R325

37744 VEITSMAN, L. N. Sex determination in guinea hens. (In Russian.) *Sotsialist. Zhivotnovod.* 12(11):94-96. Nov.1950. 49 S071

37745 WASHINGTON, STATE COLLEGE. POULTRY COUNCIL. *Coryza* (colds) of chickens and infectious sinusitis (swell head) of turkeys. Wash. State Col. Ext. B. 358,8 p. Jan.1951. (Poultry Pointers 9,rev.) 275.29 W27Pou

#### Miscellaneous

37746 ALTEVOGT, R. Kleinigkeiten über unser huhn. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:135-136. Jan.25,1951. 18 L2346

37747 ARKANSAS POULTRY IMPROVEMENT ASSOCIATION. 1951 year book. Little Rock,1951. 80 p. 47.9 Ar4

Includes directories, for Arkansas, of inspection personnel, hatcheries and flock owners.

37748 ASPEREN-VERVENNE, B. VAN. Directions for artificial brooding; the first days of life. (In Dutch.) *Pluimveeteelt* 4(3):4. Feb.2,1951. 47.8 P722

37749 BARLEY, H. D. Shape of tests to come. *Poultry World* 88:122-123. Feb.8,1951. 47.8 P6682  
Laying contests.

37750 BASANTA, E. A. Crianza de aves en baterias. *Agr. Austral* 18:478-479. Oct.1950. 9.3 Ag842

37751 BASANTA, E. A. La fertilidad de los huevos. *Agr. Austral* 18:585-586. Dec.1950. 9.3 Ag842

37752 BEARSE, G. E. Feeding and management of growing chicks important poultry job this time of year. *Nowest. Farm News* 34(9):16. Mar.1,1951. 275.293 N81

37753 BERG, V. D. Rearing chickens. (In Dutch.) *Pluimveeteelt* 4(3):17. Feb.2,1951. 47.8 P722

37754 BIRCHFIELD, J. Fire those boarders! *Mag. Ducks & Geese* 2:4. Winter 1951. 47.8 M27  
Culling geese.

37755 THE BOSS hen; scientists find that chicken society is like a ladder. At the top is a despotic boss, and on the bottom rung a hen-pecked outcast. Their findings may help poultrymen secure more eggs. *Farm Q.* 6:28, 128. Spring 1951. 6 F22995

37756 BOTSFORD, H. E. Report on Cornell's experimental flock. *Poultry Indus. [Boston]* 55(2):14. Feb.1951. 47.8 N44

37757 BOUTROUX, A. Comment augmenter la ponte des faisans. *Avicult. Basse-Cour* 7:10. Jan.1951. 47.8 Av53

37758 BRATTEN, J. Start 'em right on wire. *Albers Egg Maker* 27:7,19. Spring 1951. 47.8 AL1  
Brooders.

37759 BRAUN, D. Iowa's poultry flocks improve. *Iowa Agr.* 49(5):8-9. Dec.1950. 6 Io9

37760 BRION, A. L'utilisation des rayons infrarouges en élevage. *Bétail & Basse-Cour* 6:32-33. Jan. 1951. 49 B462  
Includes chicks.

37761 BROLEY, M. Three crops a year. *Mag. Ducks & Geese* 2:21. Winter 1951. 47.8 M27  
Goose feathers in Manitoba.

37762 BRONSTEIN, E. I. Lunevo poultry state farm. (In Russian.) *Sotsialist. Zhivotnovod.* 12(11):40-48. Nov.1950. 49 S071

37763 BROWN, T. T. Preparedness pays with poultry. *South Planter* 112(2):18-19. Feb.1951. 6 S089  
Chick care.

37764 BURI, H. E. Life or death and the NPA [National Pigeon Association]. *Amer. Pigeon J.* 40:71-72. Mar.1951. 47.8 Am35

37765 BUSTAMANTE CÁRDENAS, S. La cría productiva y económica del pato. 2. Tierra [Mexico] 6:106-107. Feb.1951. 8 T445

37766 CALIFORNIA. AGRICULTURAL EXPERIMENT STATION. DIV. OF POULTRY HUSBANDRY. Poultry husbandry report. Calif. Agr. [Calif. Sta.] 5(3):3-4. Mar. 1951. 100 C12Cag

Progress report of advances in poultry research.

37767 CALIFORNIA. POULTRY IMPROVEMENT COMMISSION. Report of the second California official random sample poultry meat production test, November 1, 1950 to January 17, 1951. Modesto,1951. 10 p. 47.9 C12Cr

37768 CASA PACHECO, MARQUÉS DE. A los avicultores de la provincia de Madrid. Valencia *Avíc.* 7:19-20. Oct.1950. 47.8 V23



- 37769 CASA PACHECO, MARQUÉS DE. Un proyecto que pide la intervención de la Diputación Provincial de Madrid. Valencia Avic. 7:20-21. Nov.1950. 47.8 V23 Aid to poultrymen.
- 37770 CASTELLÓ, F. Sobre el IX Congreso Mundial de Avicultura. Valencia Avic. 7:21-22. Oct.1950. 47.8 V23
- 37771 CAVERS, R. J. Built-up litter. Canad. Poultry Rev. 75(3):14-16,18. Mar.1951. 47.8 C16
- 37772 CECIL, L. It's the first few days that count; what happens then will make or mar the chick for life. Mod. Poultry Keeping 64:141. Feb.7,1951. 47.8 Eg3 In brooders.
- 37773 CECIL, L. The way to better incubation. We cannot improve on the best type of machine, so all improvement must come from management and the egg. Mod. Poultry Keeping 64:111. Jan.31,1951. 47.8 Eg3
- 37774 CHAPMAN, E. F. Better stock for farmers. Poultry Indus. [Milford] 16:128-129. Feb.22,1951. 47.8 P8644
- 37775 CLAYBAUGH, J. H. Winter management of breeding flocks. Nebr. Farmer 93(4):7,22-23,38. Feb. 17,1951. 6 N27
- 37776 COLES, R. Make the most of the deep litter. Mod. Poultry Keeping 64:170-171. Feb.14,1951. 47.8 Eg3
- 37777 COLLIGNON. Gedanken über die haltung von legehennen in batterien. Deut. Wirtgeflügelzucht. 3:158-159. Jan.6,1951. 47.8 D483
- 37778 CROSBY, J. A chicken farm that every poultryman should visit. Calif. Farmer, South. Ed. 194:234. Mar.10,1951. 6 C426A  
The California Official Poultry Testing Project.
- 37779 DAVIN, J. A. Importance of banding pigeons. Amer. Pigeon J. 40:74-75. Mar.1951. 47.8 Am35
- 37780 DEARSTYNE, R. S. Poultry predictions for '51. Carolina Co-op. 29(2):14-15. Feb.1951. 72.8 N81
- 37781 DRESCHER, M., JR. Chicken-of-Tomorrow on last lap. Breeder's Gaz. 116(4):20,24. Apr.1951. 49 B74
- 37782 ELKINGTON, W. N. Pour une augmentation de la ponte en Grande-Bretagne. Bétail & Basse-Cour 5: 485. Dec.1950. 49 B462
- 37783 ELLSWORTH, A. Cannibalism can be prevented by early action. Here are a few ways of keeping peace in your flock. Albers Egg Maker 27:10,22. Spring 1951. 47.8 AL1
- 37784 FERGUSON, A. E. Range and range shelters for economical and good growth. Canad. Poultry Rev. 75 (3):7-9,41-42. Mar.1951. 47.8 C16
- 37785 FRASER, J. F. Here it is, baby chick season again! Make everything ready for the new-comers and test the equipment—chicks will grow but the brooder house will not—stress cleanliness and act quickly in case disease threatens. Farmer's Advocate & Home Mag. 86 (3393):6,34. Feb.22,1951. 7 F22
- 37786 GARCÍA DE PAREDES, A. B. La avicultura industrial tiene que ser forzosamente científica. Ganadería [Madrid] 8:638. Oct.1950. 49 G15
- 37787 GASELEE, J. Enemies of poultry. 1-4. Poultry [London] 108:52,91,130,148. Jan.16,30, Feb.13-20, 1951. 47.8 P869  
1, The rat; 2, Grey squirrels; 3, Stoats, weasels and badgers; 4, Foxes - and smaller fry.
- 37788 GLASER, E. G. Again we start our baby chicks. Nebr. Farmer 93(4):26-28. Feb.17,1951. 6 N27
- 37789 GOBBI, E. J., and PEROTTI, R. M. La cría del pavo. Argentina. Min. de Agr. Not. 14(276):15-16. (To be cont.) Sept.1,1950. 9 Ar311N
- 37790 GRANT, A. P. There's profit in raising capons. Everybodys Poultry Mag. 56(2):15,44-47. Feb. 1951. 47.8 F213P
- 37791 GREENWOOD, A. W. The Poultry Research Centre. Poultry Assoc. Gt. Brit. Ybk. 1951:64-68. 47.9 P864Y
- 37792 GROSS, M. Winter care of fowl. Grit & Steel 52(10):29-30. Feb.1951. 47.8 G88
- 37793 HAGUE, W. How a junior pigeon club was started. Amer. Pigeon J. 40:68-69. Mar.1951. 47.8 Am35
- 37794 HALE, M. Bolstering the meat supply. Poultry World 88:120. Feb.8,1951. 47.8 P8682 Geese.
- 37795 HALE, M. Ducks for a rapid turnover. Poultry World 88:147. Feb.15,1951. 47.8 P8682 For meat.
- 37796 HALE, M. Farmers can range their growing turkeys. Poultry World 88:193. Mar.1,1951. 47.8 P8682
- 37797 HALE, M. This fable of difficult turkeys. Poultry World 88:171. Feb.22,1951. 47.8 P8682 Care.
- 37798 HALL, M. D. Table poultry. Victoria. Dept. Agr. J. 48:555-556. Dec.1950. 23 V66J
- 37799 HART, F. H. Laying cages are becoming increasingly popular. Agr. Gaz. N. S. Wales 61:657-662. Dec.1,1950. 23 N472
- 37800 HAWKEY, K. If I were starting again. 5-10. Poultry World 87:397,418;88:33,78,122,172. Dec.21-28, 1950, Jan.11,25, Feb.8,22,1951. 47.8 P8682 On a poultry farm.
- 37801 HERTEL, J. Poultry brooding. Co-op. Poultryman 16(3):3,21. Mar.1951. 47.8 C782
- 37802 HOGUE, R. L., and DETWILER, R. W. If a farmer asks you, "should I raise broilers?" use these facts to help him decide. Better Farming Methods 23(3): 22,24. Mar.1951. 58.8 B46
- 37803 HUDSON, G. C. Producing quality eggs in warm weather. (Excerpts) Australas. Poultry World 22 (6):11,13. Jan.1,1951. 47.8 Au72
- 37804 IVES, P. P. Although long neglected by poultrymen the goose is valuable. Amer. Egg & Poultry Rev. 12 (2):24-26,66. Feb.1951. 47.8 Am38
- 37805 JULL, M. A. What's new in poultry husbandry. Better Farming Methods 23(3):66-67. Mar.1951. 58.8 B46
- 37806 KENNARD, D. C., and CHAMBERLIN, V. D. Give built-up litter a chance to function. World's Poultry Sci. J. 7:32-35. Jan./Mar.1951. 47.8 W89
- 37807 KENNY, S. M. Winter eggs. New Eng. Homestead 124(4):28-29. Feb.24,1951. 6 N442
- 37808 KNOWLES, T. Making poultry pay. 1-4. Poultry Farmer [London] 124(3210):10;(3211):11;(3212):11;(3213):11. Feb.9-Mar.2,1951. 47.8 F312
- 37809 KNOWLES, T. Planning a farm poultry unit. Poultry [London] 108:150,168,190. (Cont.) Feb.20-Mar.6,1951. 47.8 P869
- 37810 KOSIN, I. L., and ABPLANALP, H. The pattern of egg laying in turkeys. Poultry Sci. 30:168-179. Ref. Mar.1951. 47.8 Am33P
- 37811 LE GUENN, P. Y. Le pigeon. Foyer Rur. [Montreal] 10(5):11,21. Feb.1951. 7 F83
- 37812 MACDONALD, D. R. Culling the poultry flock. Nova Scotia Boys' & Girls' Club B. 13(12):4-5. Mar.1951. 275.28 N85
- 37813 MCHENRY, S. L. Let the birds do the work: here's how! N. J. Farm & Gard. 22(3):62,64-66. Mar. 1951. 6 G162
- 37814 MCIVER, W. L. The annual clean-up in the household poultry pen. New Zeal. J. Agr. 81:563-564. Dec.15,1950. 23 N48J
- 37815 MARTY, H. De l'électricité à l'élevage. Terre d'Occ 33:62-65. Feb.1951. 14 Ar5  
Effect of infrared rays on poultry.
- 37816 MATTHEWS, P. Henyards. 1-2. Poultry [London] 108:170,188. Feb.27-Mar.6,1951. 47.8 P869
- 37817 MENDEZ M., G. Si sus gallinas no ponen. Rev. Agr. y Ganad. 12(131):3-4. Dec.1950. 9.4 R327
- 37818 MOORE, M. Every poultryman should consider the 11 rules for growing more efficient pullets. Albers Egg Maker 27:5-6,18. Spring 1951. 47.8 AL1
- 37819 MOORE, M. How important is correct brooding? Albers Egg Maker 27:3-4. Spring 1951. 47.8 AL1
- 37820 OLSEN, M. W. Effect of low temperature on the hatchability of eggs from various standardbred and crossbred chickens. Poultry Sci. 30:180-183. Mar.1951. 47.8 Am33P
- 37821 OSMAN, W. H. Making a start with racing. All-Pets Mag. 22(2):61,64. Feb.1951. 48.8 AL5 Pigeons.
- 37822 PENIONZHKEVICH, E. E. Increasing efficiency in poultry raising in various agricultural zones. (In Russian.) Sovet. Zootekh. 5(12):71-81. Ref. Dec.1950. 49 So822
- 37823 PERDRIX, J. L'incubation et les maladies du poussin. Paris,Vigot,1950. 325 p. 41 P415
- 37824 PLATT, C. S. Flock mating test in New Jersey and New York. Poultry Indus. [Boston] 55(3):5,28. Mar. 1951. 47.8 N44



- 37825 PLATT, C. S. Pullets and hens for layers. *Rur. New-Yorker* 101:83,118. Feb.3,1951. 6 R88
- 37826 POLLARD, W. S. Arkansas Chicken-of-Tomorrow Contests. *Ark. Poultry Impr. Assoc. Ybk.* 1951:12,15-18. 47.9 Ar4
- 37827 POULTRY ASSOCIATION OF GT. BRIT. Year book 1951. London,1951. 112 p. 47.9 P864Y
- 37828 POWELL-OWEN, W. From small to large flocks. *Poultry World* 88:148. Feb.15,1951. 47.8 P8682
- 37829 POWELL-OWEN, W. Priority for the best breeders—and the incubator is the stockman's best friend. *Poultry World* 88:170-171. Feb.22,1951. 47.8 P8682
- 37830 PROUDFOOT, F. G. Success in poultry raising based on farm management. *Marit. Farmer & Coop. Dairyman* 56(10):6,34-36. Feb.20,1951. 7 C77
- 37831 RITTER, R. C. Activities of Chicken-of-Tomorrow Board. *Ark. Poultry Impr. Assoc. Ybk.* 1951:20,22. 47.9 Ar4
- 37832 RITZHAUPT, L. H. How can poultry shows be improved? *Fairs & Expo.* 3(24):20. Feb.1951. 310.8 F16
- 37833 ROBINSON, L. Some everyday questions. *Poultry Assoc. Gt. Brit. Ybk.* 1951:90-93. 47.9 P864Y
- 37834 ROF CODINA, J. Ciencia y experiencia. *Cult. Mod.* 33:453-454. Dec.1950. 15 C89
- In poultry raising.
- 37835 ROY, J. B. Le maintien de l'hygiène dans la poussinière. *Terre de Chez Nous* 23(2):27. Mar.7,1951. 7 T27
- 37836 RUSSO, S. Why keep [homing] pigeons? *Amer. Racing Pigeon News* 67(3):17-18. Mar.1951. 47.8 H75
- 37837 RYAN, F. A. The Storrs Egg-Laying Test records. *New Eng. Homestead* 124(3):3,25. Feb.10,1951. 6 N442
- 37838 SELECTING the females for egg production. *Poultry Field* 3(21):13,16-17. Mar.1,1951. 47.8 P8655
- 37839 SHAW, J. A bird in the hand and—on paper. *Poultry World* 88:170. Feb.22,1951. 47.8 P8682
- Progeny testing.
- 37840 SHAW, J. Progeny testing. *Poultry World* 88:99,121. (Cont.) Feb.1-8,1951. 47.8 P8682
- 37841 SINDICATO VERTICAL DE GANADERIA. Ponencias redactadas por encargo del subgrupo Nacional de Avicultura, para su discusión en la VI Asamblea Nacional de Avicultores. Madrid,1950. 4 pts. (Boletín, 34, May 1950. Suplemento Extraordinario.) 47 S162
- 37842 SINGSEN, E. P. Feeding can cause wet litter. *Everybody's Poultry Mag.* 56(2):14,36. Feb.1951. 47.8 F213P
- 37843 SMITH, R. M. Our No. 1 poultry project for 1951. *Ark. Poultry Impr. Assoc. Ybk.* 1951:8,10. 47.9 Ar4
- Chicken-of-Tomorrow Contest.
- 37844 SOULE, C. M. What you get from the breeding flock determines your dollar returns. Get as many eggs as you can, as clean as you can, hatching as many as you can. *Canad. Poultry Rev.* 75(3):50-51. Mar.1951. 47.8 C16
- 37845 STACEY, C. G. Is [egg] output related to mortality? *Poultry World* 88:146. Feb.15,1951. 47.8 P8682
- 37846 STEINKE, L. Über die behandlung von eiern des wirtschaftsgeflügels vor und während der künstlichen bebrütung; (eine vergleichende zusammenfassung amerikanischer und eigener versuchsergebnisse). *Deut. Wirt-geflügelzucht.* 3:157-158,172-174. Jan.6-13,1951. 47.8 D483
- 37847 STEWART, I. J. Infra-red brooding tests at State Research Farm. Victoria. Dept. Agr. J. 49:9-12. Jan.1951. 23 V66J
- 37848 STRANSKY, E. Beobachtungen über psychologische eigenheiten verschiedener tauben. *Osterr. Kleintierzüchter* 1950:870. (Cont.) Dec.1950. 49 Os7
- 37849 TAGGART, J. I. The exploding egg! Soiled eggs invite trouble in the incubator! *Norbest Turkey News* 15(8):3-4. Feb.1951. 47.38 N75
- 37850 TAYLOR, L. J. Duck egg hatching. *Mod. Poultry Keeping* 64:140. Feb.7,1951. 47.8 Eg3
- 37851 TAYLOR, L. J. Let it be your festival duck year. *Mod. Poultry Keeping* 64:112. Jan.31,1951. 47.8 Eg3
- 37852 THOMPSON, J. N. The Arkansas Turkey Federation. *Ark. Poultry Impr. Assoc. Ybk.* 1951:66. 47.9 Ar4
- 37853 THOMPSON, W. C. Another crop of baby chicks. *Rur. New-Yorker* 101:83,116. Feb.3,1951. 6 R88
- Chiefly chick care.
- 37854 THOMPSON, W. C. Why do some poultry farms fail? Hints Poultrymen [N. J. Sta.] 33(4),4 p. Feb.1951. 100 N46S
- 37855 THORBURN, J. Growing for poultry profits. 10-12. *Poultry Farmer* [London] 124(3210):14;(3211):14;(3212):14. Feb.16-Mar.2,1951. 47.8 F512
- 37856 THORNER, C. More 300-egggers in U. S. *Mod. Poultry Keeping* 64:134. Feb.7,1951. 47.8 Eg3
- 37857 TOMEY, A. Put them in batteries. *Farmers Wk.* [London] 34(7):55. Feb.16,1951. 10 F2226
- 37858 TRET'IAKOV, N. P. Kak ukhazhivat' za domashnei ptitsel [How to take care of poultry]. Moskva, Gos. Izd-vo Detskoj Lit-ry Ministerstva Prosveshchenia RSFSR,1950. 61 p. 47 T72K
- 37859 VAN DER MERWE, J. A. Greater profits through the managed culling of unprofitable hens. (In Afrikaans.) *S. A. P. A. Poultry B.* 15(160):5-7. Jan.1951. 47.8 So89
- 37860 VICKERS, F. S. La crianza de pollitos. *Res* 19:25683-25684. Jan.20,1951. 286.85 R31
- 37861 WARREN, R. Hatching egg production requires a balance. *New Eng. Homestead* 124(4):26-27. Feb.24, 1951. 6 N442
- 37862 WASHINGTON STATE COLLEGE. POULTRY COUNCIL. Culling chickens. *Wash. State Col. Ext. B.* 446,4 p. Jan.1951. (Poultry Pointers 42) 275.29 W27Pou
- 37863 WE INVESTIGATE the hen-yard system. *Farmers Wk.* [London] 34(9):57,59. Mar.2,1951. 10 F2226
- 37864 WILSON, K. Battery system shows the greatest return. *Mod. Poultry Keeping* 64:56. Jan.17, 1951. 47.8 Eg3
- 37865 WINTER, A. R. Litter management. *Flour & Feed* 51(9):10-11. Feb.1951. 298.8 F66
- Poultry.
- 37866 WOOD, F. L. Chicks must have good care to make profitable producers. *Marit. Farmer & Coop. Dairyman* 56(10):3,39. Feb.20,1951. 7 C77
- 37867 ZARUR, J. Porqué a veces se fracasa en la avicultura? *Campo* [Tacuba] 18(705):30-31;(706):47-49. Nov.30-Dec.31,1950. 8 C157

## RABBITS

### Breeds and Breeding

- 37868 ARAI, T. Usagi no kaikata to riyō-ho [Method of breeding rabbits and their utilization]. Tokyo, Taibunkan,1950. 104 p. 40.2 Ar12
- 37869 BENEDICT, P. F. The case for double matings. *Small Stock Mag.* 35(3):14. Mar.1951. 48.8 P442
- 37870 COLEMAN, G. Astrological selection of breeding stock. *Calif. Rabbits Mag.* 14(8):5. Mar.1951. 40.28 Sa5
- 37871 DEAN, A. L. Breeding problems. *All-Pets Mag.* 22(2):67-68. Feb.1951. 48.8 AL5
- Rabbits.
- 37872 FEHR, J. C. AR&CBA standards. *Calif. Rabbits Mag.* 14(8):15,18. Mar.1951. 40.28 Sa5
- 37873 KIESER, F. Die körperform des weissen wienerkaninchens. *Kleintierzüchter Tierbörse* 5:9. Jan.1,1951. 49 K672
- 37874 YORKE, C. R. Advice on buying Angora stock. *Angora Rabbit Mag.* 6(4):4. Feb.1951. 40.28 An42

### Feeds and Feeding

- 37875 KENDALL, K. A., SALISBURY, G. W., and VANDEMARK, N. L. Sterility in the rabbit associated with soybean hay feeding. *J. Nutr.* 42:487-500. Ref. Dec.11,1950. 389.8 J82
- 37876 TEMPLETON, G. S. Feeding and managing does for commercial fryer production. *Small Stock Mag.* 35(3):3,10-11. Mar.1951. 48.8 P442

### Veterinary Medicine

- 37877 CELORMINI, N. Cisticercosis del conejo. *Soc. Rur. Argentina. An.* 84(11):25,42. Nov.1950. 9 So1
- 37878 CHANG, M. C. Maintenance of pregnancy in intact rabbits in the absence of corpora lutea. *Endocrinology* 48:17-24. Ref. Jan.1951. 448.8 En2



- 37879 GAUDY, C. A. Cisticercosis y coriza del conejo. Chacra 21(243):56-57. Feb.1951. 9 C34
- 37880 GAUDY, C. A. Coccidiosis del conejo. Chacra 21(240):64. Nov.1950. 9 C34
- 37881 HORNBOGEN, and HELLMICH. Ein Beitrag zur Behandlung der Kaninchencoccidiose mit Eleudron. Berlin. u. Münch. Tierärztl. Wchnschr. 1951:34-36. Feb. 1951. 41.8 B45
- 37882 HORRENBERGER, R., and ROUBERT, L. Modifications électrophorétiques du sérum sanguin observées chez le lapin au cours de la pneumonie rickettsienne provoquée. Inst. Pasteur d'Algérie. Arch. 28:350-363. Ref. Sept.1950. 448.3 In7A  
Rickettsia prowazeki.
- 37883 JACOTOT, H., and VALLEE, A. Un cas d'infection brucellique du lièvre en France. Inst. Pasteur. Ann. 80:99-101. Jan.1951. 448.3 An75
- 37884 LESBOUYRIES, G. Pasteurellose du lapin et du lièvre. Rec. de Méd. Vét. 126:717-748. Dec.1950. 41.8 R24
- 37885 NARAYAN, N. S. S., and BANERJI, T. P. A note on a variant of Pasteurella aviseptica. Indian J. Vet. Sci. & Anim. Husb. 19:225-228. Sept.1949, pub.1950. 41.8 In22  
Pathogenic to rabbits.
- 37886 SANDFORD, J. C. Fighting coccidiosis by better nutrition, selection of sound breeding stock & hygiene. Fur & Feather 114:124. Feb.22,1951. 49 F96  
In rabbits.
- 37887 STRANSKY, E. Beeinflussung der Zahl von männlichen u. weiblichen geburten. Osterr. Kleintierzüchter 1950:871. Dec.1950. 49 Os7  
Rabbits.
- 37888 TEMPLETON, G. S. Litter mortality. Calif. Rabbit News 11(10):9,13. Jan.1951. 40.28 C12
- 37889 TEMPLETON, G. S. Paralyzed rabbits. Angora Rabbit Mag. 6(4):5. Feb.1951. 40.28 An42

#### Miscellaneous

- 37890 BURGOS, C. X. Questions and answers on rabbit raising. Philippine Repub. Dept. Agr. & Nat. Resources. Pop. B. 36,21 p. 1950. 475 P533
- 37891 SALAS, M. Cunicultura. Reus Avfc. 21:16,18. Jan.1951. 47.8 R31
- 37892 USATOVA, O. Practices in rabbit raising. (In Russian.) Kolkhoz. Proizvodstvo 10(9):34-35. Sept. 1950. 281.8 K83  
On Voroshilov Collective Farm in Permsko-Il'inskiy District, Molotov Region.
- 37893 VEENSTRA, J. A. Rearing rabbits for slaughter. (In Dutch.) Pels en Pluim 6(3):2. Feb.9,1951. 47.8 P36

#### SHEEP AND GOATS

##### Breeds and Breeding

- 37894 ALONSO MUÑOZ, A. Cruzamiento da razas ovinas. B. de Divulg. Ganad. [Ciudad Real] 5(52/54):5-14. July/Sept.1950. 49.9 Sp14
- 37895 ASLANIAN, M. M., and CHAMUKHA, M. D. Selective fertilization in sheep during their impregnation with mixture of chilled and fresh semen. (In Russian.) Sovet. Zootekh. 5(12):65-70. Dec.1950. 49 So822
- 37896 BELL, D. S. Finewool sheep basis for the United States sheep industry. Sheep & Goat Raiser 31(5):38,52. Feb.1951. 45.8 Sh3  
Merinos.
- 37897 BOND, J. Unique Namaqua sheep saved from extinction. Farmer's Wk. [Bloemfontein] 80:35,37. Jan. 10,1951. 24 F225
- 37898 CLOETE, D. Uniformity of type is becoming characteristic of the South African Merino. A closer bond of genuine co-operation between the Ram Breeders' Association and agricultural colleges can give us a uniform general breeding policy for Merino sheep. Merino Breeders' J. 13:10-11. Jan.1951. 45.8 So8
- 37899 COLE, H. H. Can your farmers count on two lamb crops? Better Farming Methods 23(3):26,28. Mar. 1951. 58.8 B46
- 37900 DICKSON, J. S. Cheviot sheep, 1900-1950. Scot. Farmer 59(spec. album no.):58. Jan.1,1951. 10 Sco8
- 37901 DUNN, C. H. Getting the best from a Merino flock. So. Austral. Dept. Agr. J. 54:247-249. Dec.1950. 23 So84
- 37902 EHRNROOTH, L. Crossing of Shropshire ram and Finnish Landrace ewe. (In Swedish.) Svenska Färelsför. Tidskr. 30:91-93. Apr.1950. 45.9 Sv2
- 37903 FAVRE, F. L'élevage du mouton Texel en France. Mouton 5:111-112. Dec.1950. 45.8 M86
- 37904 FAWKES, G. Southdowns. New Zeal. Studmasters' Annu. Rev. 2:99-104. Sept.1950. 49.7 N48
- 37905 GOULTER, S. J. Half-bred sheep. New Zeal. Studmasters' Annu. Rev. 2:97-98. Sept.1950. 49.7 N48
- 37906 GOULTER, S. J. The Merino breed. New Zeal. Studmasters' Annu. Rev. 2:94-96. Sept.1950. 49.7 N48
- 37907 GRAHAM, J. W. Introduce cross-breeding program to improve sheep industry. Marit. Farmer & Coop. Dairyman 56(11):9,17. Mar.6,1951. 7 C77
- 37908 IUDIN, V. M. Fundamental principles of pedigree work in sheep breeding. (In Russian.) Sotsialist. Zhivotnovod. 12(9):48-54. Sept.1950. 49 So71
- 37909 KELLEY, R. B. Polledness in domestic animals with special reference to sheep. Austral. Vet. J. 27:8-15. Ref. Jan.1951. 41.8 Au72  
Includes cattle. Genetics of polled varieties of sheep.
- 37910 KINGWILL, W. Some thoughts on Merino sheep breeding; a more uniform type advocated. Merino Breeders' J. 13:4-5. Jan.1951. 45.8 So8
- 37911 KOCK, H. DE. The Merino in the Western Province. Merino Breeders' J. 13:13-14. Jan.1951. 45.8 So8
- 37912 LAWSON, J. Border Leicesters, 1900-1950. Scot. Farmer 59(spec. album no.):57. Jan.1,1951. 10 Sco8
- 37913 LEICESTER SHEEP BREEDERS' ASSOCIATION. Flock book of Leicester sheep, v. 58. Bradford, Byles, 1950. 67 p. 45.9 L53
- 37914 LEVI, M. Pridonskafa breed of goats. (In Russian.) Kolkhoz. Proizvodstvo 10(9):33. Sept.1950. 281.8 K83
- 37915 LITOVCHENKO, G. R. Development of new native breeds of fine-wool sheep. (In Russian.) Sotsialist. Zhivotnovod. 12(10):72-78. Oct.1950. 49 So71
- 37916 LOPEZ ARIAS, A. La raza Lincoln en la producción lanera argentina. Soc. Rur. Argentina. An. 84(11):15-18. Nov.1950. 9 So1
- 37917 LÖTZ, J. V. Z. "Black rose" of the Southwest; history of the Karakul. (In Afrikaans.) Landbou-weekblad 32(1639):40-41. Dec.13,1950. 24 L232
- 37918 MCFARLANE, P. Fat lamb breeding on lower Eyre Peninsula. So. Austral. Dept. Agr. J. 54:206. Nov. 1950. 23 So84
- 37919 MCHARDY, J. L. The value of the Merino sheep to South Africa; an interesting survey from the earlier days to the present. Merino Breeders' J. 13:16-18,14. Jan.1951. 45.8 So8
- 37920 MENZIES, W. Blackface sheep in 1950. Scot. Farmer 59(spec. album no.):78-79. Jan.1,1951. 10 Sco8
- 37921 MINEFF, P. Résultats du croisement des brebis indigènes de la région de Nova Zagora avec des béliers "Merinofleisch". (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis. 18(2):69-104. 1950. 106.3 R32  
French summary.
- 37922 MORLEY, F. H. W. Selection for economic characters in Merino sheep. Iowa State Col. J. Sci. 25:304-306. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 37923 NEVZOROV, G. A. 143 lambs from 100 ewes. (In Russian.) Sotsialist. Zhivotnovod. 12(10):53-57. Oct. 1950. 49 So71  
On Bol'shevik Collective Farm in Saratov Region.
- 37924 NEW ZEALAND ROMNEY MARSH SHEEP BREEDERS' ASSOCIATION. Flock book, v. 46. Hastings, N. Z., Hart, 1950. 379 p. 45.9 N483
- 37925 OVCHINNIKOV, M. A. Collective farm pedigree breeding farms of Merino sheep. (In Russian.) Sotsialist. Zhivotnovod. 12(9):59-64. Sept.1950. 49 So71
- 37926 POLLOS Y HERRERA, J. Lo que ha de entenderse por un buen morueco. B. de Divulg. Ganad. [Ciudad Real] 5(52/54):22-23. July/Sept.1950. 49.9 Sp14
- 37927 PRICE, D. A., GRANDSTAFF, J. O., and SIDWELL, G. M. Lamb production of Navajo ewes bred to Columbia and Romney rams, and Navajo crossbred ewes bred to Lincoln and Cotswold rams. J. Anim. Sci. 10:272-277. Feb.1951. 49 J82
- 37928 PRICE, T. H. E. This is my ideal sheep. Farmer & Stock-Breeder 65(3202):103. Mar.6,1951. 10 F228  
Type of sheep for breeding.



- 37929 ROBERTON, R. J. Breeding and selection of North Country Cheviots. *Scot. Farmer* 59:466. Feb. 17, 1951. 10 Sco8
- 37930 SEZEMOV, M. K. Scientific-production conference on semi-coarse wool sheep breeding. (In Russian.) *Sotsialist. Zhivotnovod.* 12(9):92-94. Sept. 1950. 49 So71
- 37931 SHECK, L. L. Our goats are "mongrels." *Dairy Goat J.* 29(3):11. Mar. 1951. 40.18 M592
- 37932 SIDWELL, G. M., GRANDSTAFF, J. O., and PRICE, D. A. Genetic and environmental factors affecting staple length in Navajo and Navajo crossbred weanling lambs. *J. Anim. Sci.* 10:278-283. Feb. 1951. 49 J82
- 37933 SIMONPIETRI, R. H., and LIBERALI, J. P. La raza Karakul. *Chacra* 21(240):14. Nov. 1950. 9 C34
- 37934 SMIRNOV, A. A. Improvement of Soviet Merino sheep breed on Aigurski State Farm. (In Russian.) *Sovet. Zootekh.* 5(11):46-51. Nov. 1950. 49 So822
- 37935 STEVENS, P. G. Border Leicester sheep. *New Zeal. Studmasters' Annu. Rev.* 2:68. Sept. 1950. 49.7 N48
- 37936 STEVENS, P. G. The Corriedales. *New Zeal. Studmasters' Annu. Rev.* 2:23-27. Sept. 1950. 49.7 N48
- 37937 STEVENS, P. G. Ryeland sheep. *New Zeal. Studmasters' Annu. Rev.* 2:46. Sept. 1950. 49.7 N48
- 37938 STEVENS, P. G. South-Suffolks. *New Zeal. Studmasters' Annu. Rev.* 2:109-110. Sept. 1950. 49.7 N48
- Hybrid of Southdown and Suffolk.
- 37939 STEVENS, P. G. Suffolk sheep. *New Zeal. Studmasters' Annu. Rev.* 2:60. Sept. 1950. 49.7 N48
- 37940 STEWART, W. L. British breeds of livestock. V. The hill sheep of the North. *Brit. Agr. B.* 3:216-221. 1950/51. 10 B776
- 37941 STOECKEL, R. Savoir choisir le bon bœlier. *Bétail & Basse-Cour* 5:472-473. Dec. 1950. 49 B462
- 37942 STRUTHERS, G. Blackface sheep, 1900-1950. *Scot. Farmer* 59(spec. album no.):56. Jan. 1, 1951. 10 Sco8
- 37943 SUTHERLAND, A. Half-bred and Down sheep in 1950. *Scot. Farmer* 59(spec. album no.):191-192. Jan. 1, 1951. 10 Sco8
- 37944 SUTHERLAND, A. Scottish ram sales in 1950. *Scot. Farmer* 59(spec. album no.):193-202. Jan. 1, 1951. 10 Sco8
- 37945 TOVEY, H. S. Romney Marsh sheep. *New Zeal. Studmasters' Annu. Rev.* 2:47-53. Sept. 1950. 49.7 N48
- 37946 WAGNER, R. If ban is lifted fresh blood will be to our advantage. *Woolboer* 42:17. Jan. 1951. 45.8 W83
- Embargo on export of Merino rams from Australia.
- 37947 WAGNER, R. The pure Merino; an appeal to Merino farmers not to ruin their sheep by crossbreeding. *Merino Breeders' J.* 13:28. Jan. 1951. 45.8 So8
- 37948 WALKER, D. Lincoln sheep. *New Zeal. Studmasters' Annu. Rev.* 2:60. Sept. 1950. 49.7 N48
- 37949 WALKER, D. Stud Cheviot sheep. *New Zeal. Studmasters' Annu. Rev.* 2:96-97. Sept. 1950. 49.7 N48
- 37950 WALKER, J. F. Should rams be got-up for sales? *Merino Breeders' J.* 13:25. Jan. 1951. 45.8 So8
- Feeds and Feeding**
- 37951 BECKER, D. E., and SMITH, S. E. The level of cobalt tolerance in yearling sheep. *J. Anim. Sci.* 10:266-271. Ref. Feb. 1951. 49 J82
- 37952 BECKER, D. E., and SMITH, S. E. The metabolism of cobalt in lambs. *J. Nutr.* 43:87-100. Ref. Jan. 10, 1951. 389.8 J82
- 37953 BLUMKE. Die schafhaltung in der kälteren jahreszeit. *Deut. Landwirt. Presse* 74:19-20. Jan. 20, 1951. 18 D482
- 37954 CARLSSON, C. E. Deficiencies in the feeding of sheep. (In Swedish.) *Svenska Fåravelsför. Tidskr.* 30:75-88. Apr. 1950. 45.9 Sv2
- 37955 CARNEY, J. P. Drought feeding of sheep; grain requirements in relation to present management practices. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 4(1):11-14. Jan. 1951. 281.9 Au73
- Australia.
- 37956 DUCK, R. W. More profit from well fed ewes. *Rur. New-Yorker* 101:102,104. Feb. 3, 1951. 6 R88
- 37957 KLOSTERMAN, E. W., and others. Levels and sources of protein in rations for pregnant ewes. *J. Anim. Sci.* 10:257-265. Ref. Feb. 1951. 49 J82
- M. L. Buchanan, D. W. Bolin, and F. M. Bolin, joint authors.
- 37958 MARX, H. J. Futternormen für das milchschaf. *Tierzucht* 3:53-54. May 1950. 49 T443
- 37959 NORTON, H. C. Goats, compost and a way of life. *Dairy Goat J.* 29(3):4-5. Mar. 1951. 40.18 M592
- Many types of trash found in and near cities useful for composting or feeding goats.
- 37960 ORCUTT, E. P. What's new in sheep husbandry. How much protein does a range ewe require? *Better Farming Methods* 23(3):68-69. Mar. 1951. 58.8 B46
- 37961 THOMPSON, D. S. Problems of weaner management. *Tasmania. Dept. Agr. Tasmanian J. Agr.* 21:296-301. Nov. 1, 1950. 23 T182T
- Feeding young sheep and relationship of soil fertility to animal health.
- 37962 VAN HORN, J. L., BURKITT, W. H., and WILLSON, F. S. Nutritional requirements of ewes wintered under range conditions. *Mont. Wool Grower* 25(3):7,22. Mar. 1951. 45.8 M762
- Veterinary Medicine**
- 37963 AL'MEEV, KH. SH. Pathological anatomy during pleuropneumonia in goats. (In Russian.) *Veterinariia* 27(9):31-34. Sept. 1950. 41.8 V6426
- 37964 BASSETT, E. G., and SEWELL, O. K. Excretion of oestrogens in the urine of non-pregnant ewes during the breeding season. *Nature [London]* 167:356-357. Mar. 3, 1951. 472 N21
- 37965 CASE, A. A. Enterotoxemia. *Sheep Breeder* 71(3):6-7. Mar. 1951. 45.8 Am31
- 37966 CLARK, R. The use of anti-frothing agents in the treatment of acute bloat. *So. African Vet. Med. Assoc. J.* 21:173-178. Dec. 1950. 41.8 So8
- Experiments with sheep with rumen fistula.
- 37967 CORRÊA, O., and MÜLLER, R. H. Brucellosis in sheep in Rio Grande do Sul. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 14:137. July/Dec. 1950. 9.2 R325
- 37968 DECKWER, N. Zur frage der magenwurmsuche der ziegen. *Berlin. u. Münch. Tierärztl. Wchnschr.* 1951:13-14. Jan. 1951. 41.8 B45
- 37969 DE VILLIERS, S. W. The treatment of "gid" in sheep. *So. African Vet. Med. Assoc. J.* 21:155-157. Dec. 1950. 41.8 So8
- 37970 DRAHN, F. Futtervergiftungen bei ziegen. *Monatsh. f. Vetmed.* 6:29-30. Jan. 15, 1951. 41.8 M742
- 37971 FRASER, A. S. Competition between skin follicles in sheep. *Nature [London]* 167:202-203. Feb. 3, 1951. 472 N21
- 37972 GALLUP, W. D., and others. Comparative effect on vitamin A metabolism in sheep of urea, soybean oil meal and cottonseed meal as sources of protein. *J. Anim. Sci.* 10:251-256. Ref. Feb. 1951. 49 J82
- H. M. Briggs, L. S. Pope, and J. Tucker, joint authors.
- 37973 HONEKER. Die ziegentuberkulose. *Berlin. u. Münch. Tierärztl. Wchnschr.* 1951:29-33. (To be cont.) Feb. 1951. 41.8 B45
- 37974 IAKOVLEV, V. G., and others. Sulfur and nitrogen metabolism in pregnant sheep. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:991-994. Oct. 11, 1950. 511 P444A
- R. N. Odnefs, G. N. Ozerova, and K. I. Kanygina, joint authors.
- 37975 INNES, J. R. M. Some nervous diseases of goats. *Vet. Rec.* 63:186-187. Ref. Mar. 10, 1951. 41.8 V641
- 37976 KEMPER, H. E. Sheep scabies. *Natl. Wool Grower* 41(3):18-20. Mar. 1951. 45.8 N21N
- 37977 LENSIN, S. Clinical observation and treatment of bunostomatosis in sheep. (In Russian.) *Veterinariia* 27(9):36-39. Sept. 1950. 41.8 V6426
- Bunostomum trigonocephalum.
- 37978 LOPYRIN, A. I., LOGINOVA, N. V., and KARPOV, P. L. Changes in exterior of lambs during inter-breed transplantation of embryos. (In Russian.) *Akad. Nauk SSSR. Dok.* 74:1019-1021. Oct. 11, 1950. 511 P444A
- 37979 MANJREKAR, S. L. Contagious caprine pleuropneumonia. *Indian Vet. J.* 26:533-545. May 1950. 41.8 In2
- 37980 MOHAN, R. Incidence of tuberculosis in goats. *Indian Vet. J.* 27:153-157. Nov. 1950. 41.8 In2
- 37981 MOIR, R. J., and WILLIAMS, V. J. Ruminant flora studies in the sheep. II. The effect of the level of nitrogen intake upon the total number of free micro-organisms in the rumen. *Austral. J. Sci. Res. Ser. B, Biol. Sci.* 3:381-392. Ref. Aug. 1950. 442.8 Au72



37982 NIKITIN, V. N., and others. On pathophysiological principles of chronic bloat-constipation in gray Sokolsk lambs and new data on rumen digestion in sheep. (In Russian.) Zhur. Obshch. Biol. 11:336-358. Ref. Sept./Oct.1950. 442.8 Z8

O. G. Tverdun, N. A. Lebedinskiĭ, A. F. Loiko, and V. V. Mamina, joint authors.

37983 PEETERS, G., GENIE, G., and COUSSENS, R. The automic innervation of the udder in sheep and cows. Arch. Internat. de Pharmodyn. et de Thér. 85:152-158. Ref. Jan.1,1951. 448.8 Ar226

37984 PLAUT, G. W. E., and SMITH, V. R. Conversion of caproic acid to acetoacetic acid in the goat. Soc. Expt. Biol. & Med. Proc. 76:104-105. Jan.1951. 442.9 S01

37985 SANCHEZ ROGE, G. Consejos para combatir la sarna. Uruguay. Min. de Ganad. y Agr. B. Inform. 354:7. Jan.4,1951. 9.9 G15B

On sheep.

37986 SCHULZ, K. C. A., and SUTTON, G. D. Enterotoxaemia of sheep. So. African Vet. Med. Assoc. J. 21:179-183. Dec.1950. 41.8 S08

37987 SHIRLAW, J. F. Studies on contagious pleuropneumonia of the goat in India. Indian J. Vet. Sci. & Anim. Husb. 19:181-213. Sept.1949, pub.1950. 41.8 In22

37988 SINCLAIR, A. N., SAVAGE, B. M., and WOOD, J. N. Bloodless castration and tailing of lambs. Agr. Gaz. N. S. Wales 61:651-652. Dec.1,1950. 23 N472

37989 SOUTHCOTT, W. H. The toxicity and anthelmintic efficiency of hexachlorethane in sheep. Austral. Vet. J. 27:18-21. Ref. Jan.1951. 41.8 Au72

37990 TODD, A. C., and others. On the blood picture of sheep exposed to the medium stomach worms [Ostertagia circumcincta; O. trifurcata]. Vet. Med. 46:136-140, 142. Apr.1951. 41.8 M69

F. M. Arbogast, Z. N. Wyant, W. M. Stone, and G. W. Elam, joint authors.

37991 VAWTER, L. R. Halogeton [glomeratus] poisoning in sheep. Natl. Wool Grower 41(2):24-25. Feb. 1951. 45.8 N21N

#### Miscellaneous

37992 ALLEN, A. V. 4-H Club sheep manual. N. C. Agr. Col. Ext. Club Ser. 30, rev., 15 p. Oct.1950. 275.29 N811C

37993 AULT, C. N. La caída de la lana. Hereford 17 (120):26. Jan.1951. 43.8 H42

Due to mange, malnutrition, and lack of proper care. Also in Agr. Austral 18:445-447. Oct.1950. 9.3 Ag842

37994 CANTRELL, F. Mexican Mission goat project—six years old. Dairy Goat J. 29(3):6. Mar.1951. 40.18 M592

37995 GAUTREAU, J. J., and DIONNE, M. A. Gardons plus de moutons, et de meilleure qualité. Digeste de l'Éleveur 5(5):16-17, 28. Jan.1951. 49 D56

37996 GÓMEZ PÉREZ, P. Memoria y trabajo de rendimiento en carne del ganado ovino de la provincia de Córdoba. B. de Zootec. 6:398-412. Dec.1,1950. 41.9 S016

37997 KERN, R. Meeting a need started their dairy business. Christian Farmer [Des Moines] 4(5):1, 3. Feb. 1951. 6 C462

A goat dairy in Illinois.

37998 MARTIN, W. W. Land too poor for crops? Then try sheep instead. West. Farm Life 53(5):7, 25. Mar.1,1951. 6 R153

Management of a farm in Wyoming.

37999 MILES, M. A. You can start, too. Amer. Dairy Goat News 12(8):5. Feb.1951. 40.18 Am34

Goat keeping experiences.

38000 OWEN, C. Bottle fed farm flock. Wash. Farmer 76:152, 168-169. Mar.1,1951. 6 R151

Lamb care.

38001 PANFUSHKIN, A. A farm of fine-wooled sheep. (In Russian.) Kolkhoz. Proizvodstvo 10(9):32. Sept.1950. 281.8 K83

On Stalin Collective Farm in Stepanov District, Astrakhan Region.

38002 RONSON, R. Lambing time is a busy time; it will pay handsomely to take extra care of ewes and lambs at lambing time. Family Herald & Wk. Star 82(8):13, 25. Feb.22,1951. 7 F21

38003 SHALICHEV, Y. M. Changes in the quantity, composition and qualities of sheep milk owing to weather and the stage of milking. (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis. 18(3):57-67. 1950. 106.3 R32

English summary.

38004 SKOOG, R. Glimpses of sheep husbandry in north Jämtland. (In Swedish.) Svenska Fåravelsför. Tidskr. 30:63-64. Mar.1950. 45.9 Sv2

38005 SOTOLA, J. Recent practices contributing to volume lamb production. Sheepman 21:382, 399, 402. Mar.1951. 45.8 Sh32

38006 STITT, W. R. Livestock co-op shears 'em too. News Farmer Coop. 17(12):5-6. Mar.1951. 166.2 N47

Sheep shearing department of the Evansville (Ind.) Producers Commission Association.

38007 SVENSKA FÅRAVELSFÖRENINGEN. Report of the Swedish Sheep Breeding Association. (In Swedish.) Svenska Fåravelsför. Tidskr. 30:9-32. Feb.1950. 45.9 Sv2

38008 THOMAS, J. F. H. Folds that stocked an empire. Farmers Wk. [London] 34(9):39-42. Mar.2,1951. 10 F2226

Sheep farm management in Great Britain.

38009 U. S. EXTENSION SERV. Obtaining replacement ewes for Kansas, by C. G. Elling. Washington, 1951. 3 p. 1.913 A40b7

#### SWINE

##### Breeds and Breeding

38010 AGCANAS, P. B. Observations on the Hampshire pigs under Alabama conditions. Philippine J. Anim. Indus. 10:307-314. Third Q.1949, pub.1950. 49.9 P53P

38011 BENTINCK-SMITH, J. A congenital epithelial defect in a herd of Berkshire swine. Cornell Vet. 41:47-51. Jan.1951. 41.8 C81

38012 BORNEMANN, G. Progressive leistungsbeurteilung in der Schweinezucht. Tierzucht 3:44-48. May 1950. 49 T443

38013 BRITTIN, W. Berkshire breeders stress overall quality. Natl. Live Stock Prod. 29(6):19, 22. Mar.1951. 280.38 N21

38014 CUNHA, T. J. Breeding program needed by swine producers to meet demands of market. Fla. Cattleman 15(5):58-59. Feb.1951. 43.8 F66

38015 GEORGIA SWINE BREEDER'S ASSOCIATION. Georgia swine breeders directory 1949. Athens, 1950. 17 p. 225 G294

38016 HARING, F., GRUHN, R., and SCHAAF, A. Beitrag zur mast- und schlachtleistung des Bronzschweines im vergleich zu Edelschwein, Berkshire und Cornwall. Tierzucht 3:49-53. May 1950. 49 T443

38017 HERRICK, J. B. Why a sow has three pigs. Wallaces' Farmer & Iowa Homestead 76(4):24-25. Feb. 17,1951. 6 W15

Chiefly breeding.

38018 MAGLIANO, A. First generation crossing in swine breeding. (In Italian.) Italia Agr. 88:49-52. Jan. 1951. 16 It1

38019 NOLL, D. O. Studies on longevity of the sperm of the boar. Philippine J. Anim. Indus. 10:247-259. Ref. Third Q.1949, pub.1950. 49.9 P53P

38020 ORLOV, K. A. Industrial crossing of Breĭtovskaja and Large White swine breeds. (In Russian.) Sovet. Zootekh. 5(11):37-45. Nov.1950. 49 So822

38021 ROZZI, U. Borghiglana swine at the Reggio Emilia National Show. (In Italian.) Avvenire Agr. 59:6-8. Jan.1951. 16 Av9

38022 SEIFERT, H. A. Pedigree pigs. New Zeal. Studmasters' Annu. Rev. 2:112-113. Sept.1950. 49.7 N48

38023 SIERK, C. F., and WINTERS, L. M. A study of heterosis in swine. J. Anim. Sci. 10:104-111. Ref. Feb. 1951. 49 J82

38024 WALASEK, E. Österreichische schweinerassen Pflog 4:10-12. Jan.1951. 19 P48

38025 WIGGINS, E. L., GRUMMER, R. H., and CASIDA, L. E. Minimal volume of semen and number of sperm for fertility in artificial insemination of swine. J. Anim. Sci. 10:138-143. Ref. Feb.1951. 49 J82

##### Feeds and Feeding

38026 ANTIBIOTICS now proved in hog and poultry rations; they're the biggest feeding news in 40 years! Successful Farming 49(3):33. Mar.1951. 6 Su12



- 38027 ARSENAULT, L. Les sous-produits font sou-  
vent le profit. Foyer Rur. [Mc dreal] 10(5):10-11. Feb.  
1951. 7 F83  
Swine feeding.
- 38028 BEESON, W. M. Recent developments in swine  
nutrition. Feedstuffs 23(9):34,36-38,42,44. Mar.3,1951.  
286.81 F322
- 38029 BRAUDE, R., and MITCHELL, K. G. Potatoes  
for fattening pigs; comparison of cooked and raw potatoes.  
Gt. Brit. Min. Agr. Agriculture 57:501-506. Feb.1951.  
10 G79J
- 38030 BREIREM, K., and HUSBY, M. Experiments  
with silage of boiled and raw potatoes for swine. (In  
Norwegian.) Norsk Landbr. 17:59-64. (To be cont.) Feb.  
16,1951. 11 N8122
- 38031 BRINEGAR, M. J., and others. The isoleucine  
requirement for the growth of swine. J. Nutr. 42:619-  
624. Ref. Dec.11,1950. 389.8 J82  
J. K. Loosli, L. A. Maynard, and H. H. Williams, joint  
authors.
- 38032 BRINEGAR, M. J., and others. The lysine re-  
quirement for the growth of swine. J. Nutr. 42:129-138.  
Ref. Sept.11,1950. 389.8 J82  
H. H. Williams, F. H. Ferris, J. K. Loosli, and L. A.  
Maynard, joint authors.
- 38033 BRINEGAR, M. J. Recent progress in hog  
feeding. (Excerpts.) Grain & Feed J. Consolidated  
106(5):27. Mar.14,1951. 298.8 G762
- 38034 BRÜGGEMANN, H. Hinweise für die kartoffel-  
mast der schweine. Landwirt. Wchnbl. f. Westfalen u.  
Lippe 108A:315-316. Mar.1,1951. 18 L2346
- 38035 BRÜGGEMANN, H. Zuckerrüben und zucker-  
haltige futterrüben in der schweinefütterung. Tierzüchter  
3:9-10. Jan.5,1951. 49 T445
- 38036 CATRON, D. V., and WOLF, D. New hope for  
20 million runts. Successful Farming 49(3):34-35,74,76-  
77. Mar.1951. 6 Sul2  
Antibiotics in swine nutrition.
- 38037 CATRON, D. V., and CUFF, P. Runt pigs can  
be saved. Iowa. State Col. Agr. Ext. Iowa Farm Sci.  
5:119-122. Feb.1951. 275.28 I094  
Chiefly feeding.
- 38038 COLUMBUS, A. Die variabilität der biologi-  
schen eiweißwertigkeit unter verschiedenen bedingun-  
gen, nach stoffwechselversuchen an wachsenden  
schweinen. Arch. f. Tierernähr. 1:36-55. (To be cont.)  
July/Aug.1950. 389.78 Ar22
- 38039 CUNHA, T. J., and others. A comparison of  
aureomycin, streptomycin, penicillin and an aureomycin-  
B<sub>12</sub> feed supplement for the pig. Arch. Biochem. 30:269-  
272. Feb.1951. 381 Ar2  
G. B. Meadows, H. M. Edwards, R. F. Sewell, A. M.  
Pearson, and R. S. Glasscock, joint authors.
- 38040 CUNHA, T. J. Vitamin requirements of swine.  
Amer. Hampshire Herdsman 26(3):10,33,35,38. Mar.  
1951. 46.8 Am33
- 38041 CUNNINGHAM, G. If you want big litters of  
healthy pigs in your spring pig crop watch what you feed  
your sows. Iowa Farm & Home Register 1951:7-H. Feb.  
4,1951. 6 I094
- 38042 EDWARDS, H. M., and others. Effect of APF  
in supplying multiple factors for the pig. Soc. Expt. Biol.  
& Med. Proc. 76:173-175. Jan.1951. 442.9 Sol  
T. J. Cunha, G. B. Meadows, C. B. Shawver, and A. M.  
Pearson, joint authors.
- 38043 ELLIOTT, J. A. Pigs: 114 days old at birth.  
Prog. Farmer, Tex. Ed. 66(3):58. Mar.1951. 6 T311  
Feed requirements during pregnancy.
- 38044 ESTEBAN, M. Alimentación del ganado de  
cerda. Cooperación [Madrid] 105:16-17. Nov.1950.  
280.28 C7875
- 38045 FINGERLING, G. Ergebnis der versuche zur  
ermittlung des nährwertes des Herbst'schen holzzell-  
mehles bei schweinen. Arch. f. Tierernähr. 1:22-35.  
July/Aug.1950. 389.78 Ar22
- 38046 HOMB, T. From the world of the vitamins;  
vitamin B<sub>12</sub> is of importance in efficient feeding of swine.  
(In Norwegian.) Landbrukstidende 56:869-870. Nov.1,  
1950. 11 L236
- 38047 JAKOBSEN, P. E., MOUSTGAARD, J., and  
THORBEK, G. Undersøgelser over B-vitaminernes be-  
tydning for svin. IV. Tiaminmangel og tiaminbehov [In-  
vestigations on the importance of vitamin B for swine.  
IV. Thiamine deficiency and thiamine requirements].  
Denmark. Sta. Husdyrbrugsudv. Forsøgs-lab. Beret.  
252,69 p. Ref. 1950. 104 D41  
English summary.
- 38048 KNIAZEV, K. Organization of [swine] fatten-  
ing on state farms in Moscow Region. (In Russian.)  
Miasnafa Indus. SSSR. 21(4):56-60. July/Aug.1950.  
50.8 M58
- 38049 KOVALENKO, N. A. Fattening of young grow-  
ing pigs. (In Russian.) Soſialist. Zhivotnovod. 12(10):  
34-39. Oct.1950. 49 So71
- 38050 KOZINER, A. B. Fat content of sow's milk and  
development of young pigs. (In Russian.) Soſialist.  
Zhivotnovod. 12(9):96. Sept.1950. 49 So71
- 38051 LEHRER, W. P., JR., and others. Pyridoxine  
deficiency in baby pigs. J. Anim. Sci. 10:65-72. Ref.  
Feb.1951. 49 J82  
A. C. Wiese, P. R. Moore, and M. E. Ensminger, joint  
authors.
- 38052 LERY, G. Une nouvelle méthode d'alimenta-  
tion des porcs; des pommes de terre a volonte + un kilo  
d'aliment concentre equilibre. Betail & Basse-Cour 6:80.  
Feb.1951. 49 B462
- 38053 LINDGREN, H. A. Farm wastes as swine  
feeds. Oreg. State Col. Ext. B. 712,12 p. Jan.1951.  
275.29 Or32B
- 38054 NOLAND, P. R., WILLMAN, J. P., and  
MORRISON, F. B. Vitamin and mineral supplements for  
growing and fattening hogs. Farm Res. [N. Y. State Sta.]  
17:14-15. Jan.1951. 100 N48A
- 38055 NOVOSEL'TSEV, D. V. On protein nutrition of  
boars. (In Russian.) Sovet. Zootekh. 5(11):62-73. Nov.  
1950. 49 So822  
Effect on semen production chiefly.
- 38056 ODYNETS, R. N. Feeding swine with low-con-  
centrate feeds. (In Russian.) Sovet. Zootekh. 5(12):49-  
57. Dec.1950. 49 So822
- 38057 PELCHAT, V. Des porcs a meilleurs marche.  
Terre de Chez Nous 22(52):27. Feb.21,1951. 7 T27  
Feeding to reduce production costs in Canada.
- 38058 QUARFE, E. L., and KRENZIN, R. E. Get  
better results from pig pastures; good seeding mixtures  
and sound feeding and management practices can put  
cheap grass gains on your hogs. Successful Farming 49  
(3):102,104-105. Mar.1951. 6 Sul2
- 38059 SHELTON, D. C., BEESON, W. M., and  
MERTZ, E. T. Quantitative DL-tryptophan requirement  
of the weanling pig. J. Anim. Sci. 10:73-79. Ref. Feb.  
1951. 49 J82
- 38060 SIMBOL, P., and SHTUTMAN, N. Swine  
fattening at [Bakinskii] Meat Combine. (In Russian.)  
Miasnafa Indus. SSSR. 21(4):61-62. July/Aug.1950.  
50.8 M58
- 38061 THORPE, F. B-vitamin deficiencies in pigs.  
Flour & Feed 51(10):18. Mar.1951. 298.8 F66
- 38062 TIKHONOV, V. N., and BURLAK, Z. K. Effect  
of feeding vitamin A to pregnant sows on the accumula-  
tion of vitamin A in the liver of embryos. (In Russian.)  
Sovet. Zootekh. 5(12):58-64. Ref. Dec.1950. 49 So822
- 38063 VOHS, R. L., and others. Vitamin B<sub>12</sub>, APF  
concentrate, and dried whey for growing-fattening pigs.  
J. Anim. Sci. 10:42-49. Ref. Feb.1951. 49 J82  
H. M. Maddock, D. V. Catron, and C. C. Culbertson,  
joint authors.
- 38064 WIESE, A. C., and others. Pantothenic acid  
deficiency in baby pigs. J. Anim. Sci. 10:80-87. Ref.  
Feb.1951. 49 J82  
W. P. Lehrer, Jr., P. R. Moore, O. F. Pahnish, and  
W. V. Hartwell, joint authors.
- 38065 WITZ, W. M., and BEESON, W. M. The physio-  
logical effects of a fat-deficient diet on the pig. J. Anim.  
Sci. 10:112-128. Ref. Feb.1951. 49 J82
- 38066 WORDEN, A. N. Some recent trends in pig  
nutrition. Vet. Rec. 63:89-95. Ref. Feb.10,1951.  
41.8 V641
- 38067 YOHE, R. S. Big litters; farrow more, wean  
more by feeding proper diet during gestation period.  
Prairie Farmer, Gen. Ed. 123(3):24-25. Feb.3,1951.  
6 P883
- 38068 ZHELEZNIK, P. G. Swine fattening on 10 let  
Okhtabriz State Farm. (In Russian.) Soſialist.  
Zhivotnovod. 12(10):40-45. Oct.1950. 49 So71

#### Veterinary Medicine

- 38069 ALIKAEVA, A. P. Typical specificity of  
organism of animal tuberculosis and rationalization of  
its control. (In Russian.) Veterinarifa 27(9):22-28. Sept.  
1950. 41.8 V6426  
Mycobacterium avium and M. tuberculosis bovis in  
swine.



- 38070 APICE, M. D'. Brucellosis in swine. (In Portuguese.) *Biológico* 16:180-184. Sept.1950. 442.8 B529
- 38071 BELAVTSEV, M. I. Comparative evaluation of specific methods for swine plague control. (In Russian.) *Veterinariia* 27(10):21-25. Oct.1950. 41.8 V6426
- 38072 BELL, J. M., and LOOSLI, J. K. Effect of body weight on the biological value of proteins for growing swine. *J. Anim. Sci.* 10:50-56. Ref. Feb.1951. 49 J82
- 38073 BIANCHI, C. On the etiology of swine erysipelas. (In Italian.) *Prog. Vet.* 6:83-86,88. Ref. Feb.1,1951. 41.8 P942
- 38074 BRATZLER, J. W., and others. Effect of the dietary level of tocopherols on their metabolism in swine. *J. Nutr.* 42:59-69. Ref. Sept.11,1950. 389.8 J82  
J. K. Loosli, V. N. Krukovsky, and L. A. Maynard, joint authors.
- 38075 CHOLERA and the vaccines. There is no cure for hog cholera. The making of serum and vaccine, which are preventives, is big business. *Farm Q.* 6:64-67,80,82. Spring 1951. 6 F22995
- 38076 CHRISTL, H. Foramen ovale persistens bei einem vierjährigen schwein. *Tierärztl. Umschau* 6:50-52. Feb.1951. 41.8 T445
- 38077 CHWALIBOG, J. Thermoprecipitation test in the diagnosis of infections caused by Erysipelothrix rhusiopathiae. (In Polish.) *Med. Weter.* 6:469-470. Aug. 1950. 41.8 M463  
English summary.
- 38078 DONATIEN, A., and GAYOT, G. Essai d'atténuation du virus suépeustique par passage dans l'organisme d'animaux hyperimmunisés. *Inst. Pasteur d'Algérie. Arch.* 28:345-349. Sept.1950. 448.3 In7A
- 38079 EHRlich, C. Ferkelsterben und ferkelkümern. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:121-122. Jan.25,1951. 18 L2346
- 38080 EMSBO, P. Terminal or regional ileitis in swine. *Nord. Vetmed.* 3:1-28. Ref. Jan.1951. 41.8 N813
- 38081 FIELD, H. I., and SELLERS, K. C. Leptosira icterohaemorrhagiae infection in piglets. *Vet. Rec.* 63:78-81. Ref. Feb.3,1951. 41.8 V641
- 38082 FITKO, R. On carriers of swine fever virus. (In Polish.) *Med. Weter.* 6:458-460. Aug.1950. 41.8 M463
- 38083 FOSTER, J. F., and others. Electrophoretic studies on swine. I. Composition and variability of the plasma of the normal adult female. *Iowa State Col. J. Sci.* 24:421-428. July 1950. 470 Io9  
R. W. Friedell, D. Catron, and M. R. Dieckmann, joint authors.
- 38084 GAITANDJIEFF, G. La titration de serum contre la pest porcine par une méthode modifiée de Kenda. (In Bulgarian.) *Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izslad. Inst. Spis.* 18(2):109-114. 1950. 106.3 R32  
French summary.
- 38085 GENEROSO, J. D. Some diseases of swine in the Philippines. *Philippine Livestock Mag.* 6,1.e.1:281-282,290-292,299-302,311-314. Oct./Nov.1950. 49 P54
- 38086 GIBBONS, N. E., and ROSE, D. Effect of ante-mortem treatment of pigs on the quality of Wiltshire bacon. *Canad. J. Res. Sect. F, Technol.* 28:438-450. Ref. Nov.1950. 470 C16F  
Rôle de fatigue.
- 38087 GWATKIN, R., and others. Rhinitis of swine. V. Further studies on the aetiology of infectious atrophic rhinitis. *Canad. J. Compar. Med.* 15:32-38. Feb.1951. 41.8 C162  
P. J. G. Plummer, J. L. Byrne, and R. V. L. Walker, joint authors.
- 38088 HERRICK, J. Quit fooling with erysipelas. *Successful Farming* 49(3):81-82. Mar.1951. 6 Su12  
Swine erysipelas.
- 38089 KLETTE, H., and HUEBER, S. Mast- und kastrationsversuche bei schweinen mit diacetat des (p-oxyphenyl)-hexadiens. *Tierärztl. Umschau* 6:56-59. Ref. Feb.1951. 41.8 T445
- 38090 LEONHARDT, H. Über eclampsia puerperalis, tetanie und durchfälle beim schwein. *Monatsh. f. Vetmed.* 6:27-29. Ref. Jan.15,1951. 41.8 M742
- 38091 LOSINSKI, T. Aetiological aspect and morbid anatomy of swine influenza. (In Polish.) *Med. Weter.* 6:463-466. Ref. Aug.1950. 41.8 M463  
French summary.
- 38092 LUCAS MORAN, B. La brucellosis porcina y su profilaxis. *Res* 19:25673. Jan.20,1951. 286.85 R31
- 38093 MCKINNA, W. R. The current outbreak of swine fever. *Vet. Rec.* 63:96-97. Feb.10,1951. 41.8 V641  
Great Britain.
- 38094 MUNDELL, E. L. Current status of hog cholera vaccines. *Kans. Vet. Med. Assoc. Proc.* 46:118-124. Ref. 1950. 41.9 K133
- 38095 NOODER, H. J. A Cesarean section in a partially castrated sow. (In Dutch.) *Tijdschr. v. Diergeneesk.* 76:166. Feb.15,1951. 41.8 T431
- 38096 PERRY, T. W., BEESON, W. M., and ANDREWS, F. N. The effect of thyroprotein on the growth and thyrotropic hormone content of the anterior pituitary of swine. *J. Anim. Sci.* 10:129-137. Ref. Feb.1951. 49 J82
- 38097 QUIN, A. H. Some disease problems in young pigs. *Vet. Med.* 46:131-133. Apr.1951. 41.8 M69
- 38098 SALAFRANCA, E. S. Rabies in a pig: a case report. *Philippine J. Anim. Indus.* 10:275-277. Third Q. 1949, pub.1950. 49.9 P53P
- 38099 SALAFRANCA, E. S. Surgical correction of omphalocele in a pig. *Philippine J. Anim. Indus.* 10:279-282. Third Q.1949, pub.1950. 49.9 P53P
- 38100 SALISBURY, J. D., SMITH, C. R., and DOYLE, L. P. Antibiotic treatment of swine dysentery. *Amer. Vet. Med. Assoc. J.* 118:176-178. Mar.1951. 41.8 Am3
- 38101 SAN AGUSTIN, F. Swine brucellosis in the Philippines with special reference to imported stock. *Philippine J. Anim. Indus.* 10:241-246. Third Q.1949, pub. 1950. 49.9 P53P
- 38102 SAN GABRIEL, G. L. Questions and answers on hog cholera. *Philippine Repub. Dept. Agr. & Nat. Resources. Pop. B.* 37,13 p. 1950. 475 P533
- 38103 SANDSTEDT, H. Swine pox. (In Swedish.) *Ladugården* 1950:317-318. Oct.1950. 44.8 L12
- 38104 SCHMIDT, C. P. Swine practice. (Extr.) *Iowa Vet.* 22:11-13. Jan./Feb.1951. 41.8 Io9
- 38105 SHELTON, D. C., BEESON, W. M., and MERTZ, E. T. The effect of methionine and cystine on the growth of weanling pigs. *J. Anim. Sci.* 10:57-64. Feb.1951. 49 J82
- 38106 SIPPEL, W. L. The diagnosis of certain swine diseases. *Auburn Vet.* 7:65-68. Winter 1951. 41.8 Aul  
Hog cholera, salmonellosis, and swine erysipelas.
- 38107 SORIA, G. E. Prevención de la peste porcina. *Chacra* 21(243):14-15. Feb.1951. 9 C34
- 38108 SPORRI, H., and CANDINAS, L. Eine neue methode zur ausschaltung des geschlechtsstriebs und verbesserung der mastleistung beim schwein. *Schweiz. Arch. f. Tierheilk.* 93:129-141. Ref. Feb.1951. 41.8 Sch9  
English summary.  
Use of estrogens.
- 38109 STAUCH, D. M. Eperythrozoonosis. *Iowa Vet.* 22:9-11. Jan./Feb.1951. 41.8 Io9  
Swine.
- 38110 SUTHERLAND, A. K. Infectious pneumonia of swine. *Queensland Agr. J.* 71:340-344. Dec.1950. 23 Q33
- 38111 TABOLA, R. J. Swine diseases in 1950. (Extr.) *Iowa Vet.* 22:7-9. Jan./Feb.1951. 41.8 Io9
- 38112 TCHENTCHEV, I. La hyperimmunisation intra-cutanée, nouvelle méthode d'obtenir le serum contre la peste porcine. (In Bulgarian.) *Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izslad. Inst. Spis.* 18(1):101-106. 1950. 106.3 R32  
French summary.
- 38113 TSUBAKI, S., and others. Studies on Japanese B. encephalitis, on swine encephalitis and abortion (1947-1949). *Kitasato Arch. Expt. Med.* 23:9-12. July 1950. 44.8 K64  
S. Masu, Y. Obata and F. Shimada, joint authors.
- 38114 WILLE, R. Das ferkelsterben und andere zuchtstörungen im lichte der inkretforschung. *Tierärztl. Umschau* 6:62-64. Feb.1951. 41.8 T445
- 38115 YOUNG, H. J. La viruela de los lechones. *Asoc. Argentina Criadores de Cerdos. Rev.* 30(341):23. Jan.1951. 46.9 As5  
Transmitted by Haematopinus suis.
- 38116 ZAGURSKI, N. I., and POGORELKO, A. S. Listerellosis in swine. (In Russian.) *Veterinariia* 27(10):26-28. Oct.1950. 41.8 V6426

## Miscellaneous

- 38117 BLOUNT, W. P. Profit from pigs. 8-10. *Poultry Farmer* [London] 124(3210):14;(3211):14;(3212):14. Feb.16-Mar.2,1951. 47.8 F312
- 38118 BOSTOCK, F. The bacon pig. *Queensland Agr. J.* 71:345-350. Dec.1950. 23 Q33



38119 DOWNEY, L. A., and NORTH, A. D. Pork and bacon pig competition. Victoria. Dept. Agr. J. 48:539-542. Dec.1950. 23 V66J

Appraisal of pig carcasses at the Melbourne Royal Show.

38120 EVERLY, J. Herd-testing progresses in Illinois. Duroc News 25(3):20. Mar.1951. 46.8 N212

38121 EVERLY, J. Meeting the demand requires good management during this critical season. Duroc News 25(3):36. Mar.1951. 46.8 N212

38122 GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Year-round management of four brood sows. Ga. Coastal Plain Expt. Sta. Mimeog. Paper 73,3 p. Jan. 1951. 100 G292M

38123 GLASER, G. Der bäuerliche Schweinehalter. Ed. 4. Bern, Buchverlag Verbandsdruckerei, 1950. 104 p. 46 G46

38124 IOWA. CROP AND LIVESTOCK REPORTING SERV. How many pigs in a litter. Des Moines, 1950. 3 p. 46 I09

38125 IS'ANOV, S. Practices of leading swine raising women. (In Russian.) Mfasnaf Indus. SSSR. 21 (4):91-92. July/Aug.1950. 50.8 M58

38126 KARPOV, N. G., and MOROZOV, I. A. Rearing of suckling pigs. (In Russian.) Sotsialist. Zhivotnovod. 12(10):46-52. Oct.1950. 49 So71

38127 KELLEY, J., and BUTLER, J. K., JR. 4-H swine production manual. N. C. Agr. Col. Ext. Club Ser. 4, rev., 14 p. Aug.1950. 275.29 N811C

38128 MONTGOMERY, G. A. Twenty-point hog plan. Capper's Farmer 62(4):18,62. Apr.1951. 6 M693

38129 NORTH, A. D. Young farmers' pig-raising competition. Victoria. Dept. Agr. J. 48:554-555. Dec. 1950. 23 V66J

Victorian Young Farmers' Clubs.

38130 PLAGER, R. G. Balanced thinking in our hog business. Poland China World 38(2):6-7. Mar.1951. 46.8 Sw62

Feeding, selection, type.

38131 RIEU-PEYROUX. Comment "faire" un bon porc de viande? Unité Paysanne 6(270):3. Jan.27,1951. 14 Un3

38132 ROBISON, W. L. Helps to better hog production. Ohio Farmer 207(4):3,26. Feb.17,1951. 6 Oh3

Care and feeding.

38133 RUPP, R. G. Packaged pigs; a new industry—the pig hatchery—is being born of farmer demand. Farmer [St. Paul], Gen. Ed. 69(4):1,30-32. Feb.17,1951. 6 F2211

38134 SOLIS, M. Preparación para la exhibición de cerdos. Rev. de Agr. Com. e Indus. [Panama] 8(111/112): 23. Nov./Dec.1950. 8 R3291

Panama.

38135 SORIA, G. E. Inspección sanitaria de reses porcinas. Rev. Ganad. [Habana] 11(3):33-34. Mar.1951. 49 R321

38136 TINDALL, C. 1,000 hogs a year on 40 acres? Three Missouri farmers are switching to a system the originators believe can produce that many porkers. Mo. Rur. 92(5):8-9,19. Mar.10,1951. 6 R8891

38137 TRULSSON, G. Swine husbandry, year 1950. (In Swedish.) Lantmannen 35:13-14. Jan.6,1951. 11 L234

38138 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Save those baby pigs, by J. Zeller, H. W. Schoening, and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11

38139 VASHKEVICH, F. V., and ZHURAVLEV, D. M. Swine farm of Serp i Molot Collective Farm [in Bezhefskiy District, Kalinin Region]. (In Russian.) Sotsialist. Zhivotnovod. 12(11):33-35. Nov.1950. 49 So71

38140 VESTAL, C. M. What's new in swine husbandry. Better Farming Methods 23(3):59. Mar.1951. 58.8 B46

38141 WALSH, W. A. An alternative "crop?" Try pigs in the rotation. Fruit-Grower 2866:661-662. Nov. 30,1950. 80 F941

38142 ZINNER, J. Butchering hogs on the farm. Ala. Farmer 30(4):7-8,10. (To be cont.) Jan.1951. 276.8 AL1

## ENTOMOLOGY

### GENERAL

38143. ABBOTT, C. E. Rare insects. Audubon Mag. 53:90-95. Mar./Apr.1951. 413.8 B53

Collecting and preserving.

38144 BODENSTEIN, D. Hormone control of insect metamorphosis. (Abs.) Ent. Soc. Wash. Proc. 52:276. Oct.1950. 420 W27

38145 CARRERAS A., A., and YEPES, M. L. Importancia y evolución de los insecticidas en España. Ion 10: 601-604. Oct.1950. 385 I06

38146 DOWDY, W. W. Further ecological studies on stratification of the Arthropoda. Ecology 32:37-52. Ref. Jan.1951. 410 Ec7

38147 DRESNER, E. The toxic effect of Beauveria bassiana (Bals.) Vuill. on insects. N. Y. Ent. Soc. J. 58: 269-278. Ref. Dec.1950. 420 N48J

Tests with Musca domestica, Gnorimoschema operculella, and Gastrophysa cyanea.

38148 GRAYSON, J. M. Acidity-alkalinity of the alimentary canal of 20 insect species. (Abs.) Va. J. Sci. (n.s.):1:352. Sept.1950. 470 V81

38149 HERING, E. M. Monophagie und xenophobie. Die nahrungswahl phytophager insekten und die geographische herkunft ihrer wirtspflanzen. Naturwissenschaften 37:531-536. Ref. Dec.1,1950. 474 N213

38150 JOHNSON, C. G. The study of wind-borne insect populations in relation to terrestrial ecology, flight periodicity and the estimation of aerial populations. Sci. Prog. [London] 39(153):41-62. Ref. Jan.1951. 472 Sci22

38151 LINSLEY, E. G. Proposed additions to the list of common names of insects. J. Econ. Ent. 43:831. Dec. 1950. 421 J822

38152 MELL, R. Schöpferische gewalt oder tod: winter! Orion 6:17-24. Jan.1951. 474 Or4

Insects.

38153 MOORE, W. Nutrition of insects. (Abs.) Va. J. Sci. (n.s.):1:350. Sept.1950. 470 V81

38154 NIBLETT, M. Plant galls of Bookham Common. London Nat. (1949)29:90-92. 1950. 420 L843

38155 PERRY, W. J., and WEBSTER, A. P. Simple high altitude observation chamber for the study of insect physiology. Mosquito News 10:209-211. Dec.1950. 421 M85

38156 PINTO, P. A. Medical idiom. Mosquito bite? (In Portuguese.) Brasil-Med. 64:305-306. Dec.2/9,1950. 448.8 B73

Terminology of insect bites and stings.

38157 PRATT, J. J., JR. A qualitative analysis of the free amino acids in insect blood. Ent. Soc. Amer. Ann. 43:573-580. Ref. Dec.1950. 420 En82

Experiments with Blattella germanica, Periplaneta americana, Musca domestica, Oncopeltus fasciatus, Prodenia eridania, Galleria mellonella, and Apis mellifera.

38158 RATCLIFFE, J. The worms crawl in. Pest Control 19(3):36,42. Mar.1951. 449.8 Ex8

Insect fauna of human cadaver.

38159 ROONWAL, M. L., BHASIN, G. D., and PANT, G. D. A systematic catalogue of the main identified entomological collection at the Forest Research Institute, Dehra Dun. I-III. Indian Forester 76:498-505. Nov.1950. 99.8 In2

38160 WADLEY, F. M. Notes on the form of distribution of insect and plant populations. Ent. Soc. Amer. Ann. 43:581-586. Dec.1950. 420 En82

38161 WIGGLESWORTH, V. B. Hormones and the metamorphosis of insects. Endeavour 10(37):22-26. Ref. Jan.1951. 472 En2

38162 WILKINSON, T. Department in the College of Agriculture. III. Entomology. Ark. Agr. 28(5):9,17. Jan. 1951. 276.8 Ar42

38163 WOODROFFE, G. E., and SOUTHGATE, B. J. Bird-nesting for insects. Countryman [Burford] 43:85-89. Spring 1951. 281.28 C832

Insects found in birds' nests.

38164 ZISCHKA, R. Catálogo de los insectos de Bolivia. Folia U. 4(4):51-56. Oct.1950. 516 F71



## GENERAL - ECONOMIC

- 38165 ANDERSON, E. D. Modern insecticide sprayers. *Soap & Sanit. Chem.* 27(2):121-123, 139. Feb. 1951. 307.8 S012
- 38166 ANGELL, G. N. The "right" insecticides control stone fruit pests, and here are recommendations about the right ones for some of the more common insect pests in Oregon orchards. *Oreg. Farmer* 74:152, 170. Mar. 1, 1951. 6 Or32
- 38167 ARRINGTON, L. G. World consumption of pesticide materials. I-II. *Agr. Chem.* 6(2):53, 55-57, 85; (3):44-45, 47, 120-121. Feb.-Mar. 1951. 381 Ag8
- Insecticides and other products.
- 38168 BALACHOWSKY, A. Vers la création d'un insectarium international à Menton. *Fruits d'Outre Mer* 5:33. Nov. 1950. 80 F9492
- To study and improve methods of biological control in western Europe, Africa and Asia.
- 38169 BEAL, J. A. A coordinated forest pest control program. *West. Forestry & Conserv. Assoc. Proc.* 41: 58-60. 1950. 99.9 W522
- 38170 BECKHAM, C. M., and DUPREE, M. Progress report, cotton insect control experiments, 1950. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 34, 25 p. Dec. 1950. 100 G29M
- 38171 BEEKENKAMP, G. Winter control of fruit culture under glass. (In Dutch.) *Fruitteelt* 41:21-23. Jan. 11, 1951. 86 N28
- Pest control.
- 38172 BENTON, A. H. Effects on wildlife of DDT used for control of Dutch elm disease. *J. Wildlife Mangt.* 15:20-27. Jan. 1951. 410 J827
- 38173 BERZAGHI, M. N. Preventive measures against pests. (In Portuguese.) *Rev. dos Mercados* 1(3): 51-54. Nov. 1950. 286.8 R328
- Insect pests of cotton.
- 38174 BISHOP, C. F. Controlling household pests. *W. Va. Agr. Col. Ext. Good Living Ser.* 18. Strengthening the Home Front. Lesson 6, 8 p. n.d. 275.29 W522G
- 38175 BISHOPP, F. C. Cotton insect research pays big dividends. *Cotton Gin & Oil Mill Press* 52(5):28, 30-31, 86-87. Mar. 3, 1951. 304.8 C822
- 38176 BLACKALLER V., A. Las plagas del maíz en México. II. *Tierra [Mexico]* 6:93-95, 115. Feb. 1951. 8 T445
- Insects.
- 38177 BOTTGER, G. T., YERINGTON, A. P., and GERTLER, S. I. Preliminary tests of some hydrazides and hydrazones as insecticides. *U. S. Bur. Ent. & Plant Quar. E-815*, 17 p. Feb. 1951. 1.9 En83
- 38178 BOYCE, A. M. Entomology of citrus and its contribution to entomological principles and practices. *J. Econ. Ent.* 43:741-766. Ref. Dec. 1950. 421 J822
- Pests and their control.
- 38179 BREAKEY, E. P. Insect pests of Rhododendrons. *Arboretum B.* 13(4):9-11, 32-34. Winter 1950. 451 Ar1
- 38180 BROWN, L. Preliminary studies of some shade tree insects. *Natl. Shade Tree Conf. West Chapter. Proc.* 17:240-243. In *Natl. Shade Tree Conf. Proc.* 26. 1950. 99.9 N218
- 38181 CAMPBELL, I. J. Insect control in 1951—a year of opportunity for cotton. *Cotton Gin & Oil Mill Press* 52(5):17-18. Mar. 3, 1951. 304.8 C822
- 38182 CARESHE, L. L'entomologie appliquée en Indochine. (Sum.) *Agron. Trop.* 6:81-82. Jan./Feb. 1951. 26 Ag86
- 38183 CAREY, C. J. Legal aspects of pest control. (Condensed.) *West. Grower & Shipper* 22(3):13, 36. Feb. 1951. 280.38 W52
- Insects.
- 38184 CARRUTH, L. A. The newer insecticides. *Prog. Agr. Ariz.* 2(4):6, 11. Jan./Mar. 1951. 6 P9452
- 38185 CHAUVIER, G. Contribution à l'étude des propriétés parasitiques des roténones. *Paris, Foulon* 1950. 88 p. 463.5 C39
- Thesis - École National Vétérinaire d'Alfort.
- 38186 CHISHOLM, R. D., and others. DDT residues in soil. *J. Econ. Ent.* 43:941-942. Dec. 1950. 421 J822
- L. Koblitzky, J. E. Fahey, and W. E. Westlake, joint authors.
- 38187 CHOQUETTE, C. Savez-vous employer les insecticides? *B. des Agr.* 47(2):12-13. Feb. 1951. 7 B872
- 38188 CHOW, C. Y., HUANG, T. C., and YUE, T. F. Bibliography of Chinese arthropods of medical and veterinary importance. *Taiwan Mus. Q. J.* 3:157-186. Sept. 1950. 513 T133
- 38189 CLABORN, H. V., BECKMAN, H. F., and WELLS, R. W. Excretion of DDT and TDE in milk from cows treated with these insecticides. *J. Econ. Ent.* 43: 850-852. Dec. 1950. 421 J822
- 38190 CLARK, C. A. Where the PCO fits into the food industry. *Pest Control* 19(2):18. Feb. 1951. 449.8 Ex8
- 38191 CONFERENCE report on cotton insect research and control, Dec. 4-6, 1950. *Cotton Gin & Oil Mill Press* 52(5):32, 34-35, 68-74. Mar. 3, 1951. 304.8 C822
- 38192 CONNECTICUT. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Apple spray guide, 1951, by F. D. Johanson, P. Garman, and E. M. Stoddard. *Storrs, 1951.* 4 p. 275.29 C76Ap
- 38193 COON, J. M. Hazards involved in pesticide application. *Agr. Chem.* 6(3):53, 55. Mar. 1951. 381 Ag8
- Insecticides.
- 38194 CORDY, C. B. Spray program 1951, Medford area, Oregon. *West. Fruit Grower* 5(2):11. Feb. 1951. 95.8 G762
- Chiefly for insect control.
- 38195 COTTON insects: how to identify them and evaluate their damage. *Cotton Gin & Oil Mill Press* 52 (5):59-62. Mar. 3, 1951. 304.8 C822
- Descriptions and colored illustrations of *Anthonomus grandis*, *Heliothis armigera*, *Psallus seriatus*, *Thrips tabaci*, *Pectinophora gossypiella*, *Alabama argillacea*, *Aphis gossypii*, *Adelphocoris rapidus*, *Tetranychus bimaculatus*, *Melanoplus differentialis*, *Lygus oblineatus*, *L. elisus*, *L. hesperus*, and *Chlorochroa ligata*.
- 38196 COWART, F. F. 1951 cotton insect control recommendations for Georgia. *Ga. Agr. Expt. Sta. Press* B. 627, 5 p. Jan. 2, 1951. 100 G29P
- 38197 DECKER, G. C. A practical field control program for corn insects. *Natl. Canners Assoc. Inform. Let.* 1325:120-121. Feb. 28, 1951. 389.9 N214In
- 38198 DECKER, G. C., WEINMAN, C. J., and BANN, J. M. A preliminary report on the rate of insecticide residue loss from treated plants. *J. Econ. Ent.* 43:919-927. Dec. 1950. 421 J822
- 38199 DEER, J. A., and GUNTER, A. C. Insect control for home gardens. *Tex. Agr. Col. Ext. L.* 126, 2 p. Dec. 1950. 275.29 T313
- 38200 DELATTRE, R. Rapport de Mission Maroc juillet-août 1950. *Coton et Fibres Trop.* 5:193-201. Dec. 1950. 73.8 C82
- Role of *Earias insulana*, *Empoasca vesca*, *Pectinophora gossypiella*, and *Bemisia tabaci* as pests of cotton.
- 38201 DELAWARE. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Fruit spray schedules for 1950. *Del. U. Agr. Ext. C.* 61, 7 p. Feb. 1950. 275.29 D37C
- 38202 DENMAN, T. E. The control of peach insects in the West Cross Timbers. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1305, 3 p. Dec. 20, 1950. 100 T31P
- 38203 DERIBERE, M. Procédés physiques de désinsectisation. *Chim. & Indus.* 65:39-42. Jan. 1951. 383 C42
- High-frequency heating and various types of radiation.
- 38204 A DIAGNOSTIC key to the more common structural wood-destroying pests of the Pacific Coast. *Pest Control* 19(2):26. Feb. 1951. 449.8 Ex8
- 38205 DORMAL, S., and others. Synthesis of chlorinated aromatic compounds, chemical structure and insecticidal efficiency. *J. Econ. Ent.* 43:915-918. Dec. 1950. 421 J822
- E. L. Delvaux, L. E. Dills, and D. E. H. Frear, joint authors.
- Tests with *Drosophila melanogaster*, *Tenebrio molitor*, *Tribolium confusum*, *Aphis fabae*, and eggs of *Oncopeltus fasciatus*.
- 38206 DOVASTON, H. F. Systemic insecticides. *Gard. Illus.* 68:19-20. Jan. 1951. 80 G169
- 38207 EARLEY, D. Protecting tomato seedlings from insects. *Tex. Farming & Citricult.* 27(8):8-9. Feb. 1951. 80 T31
- 38208 ENGEL. Können schädlinge auch ohne pflanzenschutzmittel bekämpft werden? *Gesunde Pflanzen* 2:136-140. June 1950. 464.8 G33
- Chiefly biological control.



- 38209 EWING, K. P., and PARENIA, C. R., JR. Early season application of insecticides on a community-wide basis for cotton insect control in 1950. *Cotton Gin & Oil Mill Press* 52(5):88-92. Mar.3,1951. 304.8 C822
- 38210 FALES, J. H. The aerosol industry today. (Abs.) *Ent. Soc. Wash. Proc.* 53:56. Feb.1951. 420 W27
- 38211 FAVREAU, A. Ils mangent encore à la même table. *B. des Agr.* 47(2):14-15,67. Feb.1951. 7 B872  
Insect pest control.
- 38212 FRICKHINGER, H. W. Fortschritt bei der mühlendurchgasung. *Gesunde Pflanzen* 2:85-87. Apr. 1950. 464.8 G33
- 38213 FULTON, R. A. Supplemental list of publications on liquefied-gas aerosols. *U. S. Bur. Ent. & Plant Quar.* E-814,5 p. Jan.1951. 1.9 En83
- 38214 GALLEY, R. A. E. Whither insecticides? *Chem. & Indus.* 1950:877-880. Dec.30,1950. 382 M31C
- 38215 GEREBTZOFF, M. A., and DALLEMAGNE, M. J. La rupture des cénapses lipo-protidiques dans l'intoxication expérimentale des mammifères par l'hexachlorocyclohexane. *Soc. de Biol. Compt. Rend.* 144:1570-1571. Nov.1950. 442.9 P21
- 38216 GILMAN, H., and MILLER, L. S. The preparation of some chlorinated aryl silanes for the examination of their insecticidal properties. *Amer. Chem. Soc. J.* 73: 968-970. Mar.1951. 381 Am33J
- 38217 GONZÁLEZ GARCÍA-GUTIERREZ, A. Los modernos insecticidas de síntesis. *Ion* 10:659-662. (To be cont.) Nov.1950. 385 Io6
- 38218 GRAEVE, K., and HERRNRING, G. Über die toxizität des gamma-hexachlorocyclohexan. *Arch. Internat. de Pharmodyn. et de Thér.* 85:64-72. Ref. Jan.1, 1951. 448.8 Ar226
- 38219 GRAHAM, C., and others. Maryland spray calendar for apples and peaches. *Md. Agr. Col. Ext. B.* 134,rev.,14 p. Feb.1951. 275.29 M36B  
T. L. Bissell, L. O. Weaver, and A. F. Vierheller, joint authors.
- 38220 GRANDORI, R. The disinfectant action of calcium cyanamide. (In Italian.) *B. di Zool. Agr. e Bachicoltura.* 16:91-98. 1950. 423.9 B63
- 38221 GRINDLEY, J. Effluent disposal in DDT manufacture. *Indus. Chem.* 26:467-469. Nov.1950. 382 In22
- 38222 GRYLLS, N. E. Low-volume D.D.T. spray treatment of a lucerne seed crop. *Austral. Inst. Agr. Sci. J.* 16:154-157. Ref. Dec.1950. 23 Au74
- 38223 GUHA, S. K. Estimation of D.D.T. *Indian J. Pharm.* 12:261-262. Sept.1950. 396.8 In23
- 38224 HALLER, H. L. Insecticides and fungicides. *Indus. & Engin. Chem.* 43:569-572. Mar.1951. 381 J825  
Research.
- 38225 HEERDT, W. Chemische schädlingsbekämpfungsmittel und -verfahren in der amerikanischen nahrungsmittelindustrie. *Müllerei* 4:37-38. Jan.20,1951. 298.8 M91  
Insecticides.
- 38226 HELDRETH, H. E. Insecticides are poisonous! *Farm Safety Rev.* 9(2):10-12. Mar./Apr.1951. 449.8 F22
- 38227 HITCHNER, L. S. Insecticide supply situation. *Cotton Gin & Oil Mill Press* 52(5):84,86-87. Mar.3,1951. 304.8 C822
- 38228 HOFSTEN, C. G. VON. Pests and plant diseases; some interesting short films. (In Swedish.) *Lantmannen* 35:109-110. Feb.10,1951. 11 L234  
Produced in England.
- 38229 HOPKINS, D. P. Review of new insecticides. *Chem. Prod. (n.s.)* 14:94-98. Mar.1951. 382 C428
- 38230 HOYT, A. S. Relation of the Bureau of Entomology and Plant Quarantine to the cotton industry. *Cotton Gin & Oil Mill Press* 52(5):20,22. Mar.3,1951. 304.8 C822
- 38231 HURTIG, H., and PERRY, A. S. Slide coatings for aerosol droplet collection and preservation. *J. Econ. Ent.* 43:952-954. Dec.1950. 421 J822
- 38232 INSECT resistance to DDT. *Chem. Agr.* 64: 265-267. Feb.17,1951. 382 C427
- 38233 JAHN, E. "Die dauernisthöhle" und andere notwendigkeiten in der schädlingsbekämpfung. *Forstwirt. Holzwirt.* 4:274-275. Sept.1/15,1950. 99.8 F7793  
For control of insects pests by birds.
- 38234 JAMES, W. S. A new systemic insecticide. *Amer. Fert. & Allied Chem.* 113(6):11,28. Sept.16,1950. 57.8 Am3  
E-1059 (Systox) compared with octamethyl pyrophosphoramide.
- 38235 JENSEN, J. H. Insect control will cut virus disease in plants. *South. Seedsman* 14(2):24,44-45,47-48. Feb.1951. 61.8 So8
- 38236 JOHNSON, F. Dormant sprays check fruit tree diseases. *Nowest. Farm News* 34(5):8. Feb.1,1951. 275.293 N81  
Insect and disease control.
- 38237 JÜSTEN, F. Französische einfuhrbestimmungen. *Gesunde Pflanzen* 2:288-289. Nov.1950. 464.8 G33  
Plant pests and diseases intercepted at border.
- 38238 KENAGA, E. E. The relationship of molecular weight to insecticidal activity. *J. Econ. Ent.* 43:938-939. Dec.1950. 421 J822  
Tests with *Epilachna varivestis*, *Prodenia eridania*, *Tetranychus bimaculatus*, and *Aphis fabae*.
- 38239 KENNEY, C. H. "Good housekeeping," theme of the Stored Product entomologist. *Agr. Inst. Rev.* 5(6): 27-29,31-32. Nov.1950. 7 Ag8  
Insect infestation problems in food manufacturing studied by the Stored Product Investigation Unit, Department of Agriculture, Canada.
- 38240 KLETT. Anleitung für die durchführung der obstbau-spritzungen 1951. *Obstbau* 70:8-9. Jan.1,1951. 80 Ob73  
For insect control in Germany.
- 38241 KRAUSCHE, K. K., EVANS, G. R., and ZAKHEIM, M. BHC-DDT dust preparation. *Agr. Chem.* 6(3): 59-60,117-118. Mar.1951. 381 Ag8  
Synergism. Combined dust effective against cotton pests.
- 38242 LAPORTE, L. Note sur les parasites des agrumes en Algérie. *Algeria. Inst. Agr. Ann.* 5:1-3. Jan.1950. 108 AL35
- 38243 LAVEZZINI, A. Let us protect our fruit trees. (In Italian.) *Avenire Agr.* 59:8-9. Jan.1951. 16 Ay9  
Winter spraying for insect pest control.
- 38244 LEGRCS, N. Fumigations en serre. *B. Hort.* (n.s.)6:12-13. Jan.1,1951. 80 B873
- 38245 LEÓN ORTEGA, M. Chlordane el nuevo insecticida. *Tierra [Mexico]* 6:105. Feb.1951. 8 T445
- 38246 LESTER, J. Insecticide, foliage spray recommendations listed. *Mont. Farmer-Stockman* 38(7):10-11. Dec.1,1950. 6 M764  
Insect control methods.
- 38247 LEWIS, R. A. Science in the tea cup. *Coffee & Tea Indus.* 74(2):51. Feb.1951. 389.8 Sp4  
Chiefly on control of insect pests in tea culture.
- 38248 LHOSTE, J. Una nueva clase de insecticidas: los ésteres fosforicos. *Siembra [Madrid]* 6(12):39-41. Dec.1950. 15 S11
- 38249 LIGUORI, F. Winter spraying of fruit trees. (In Italian.) *Agr. Tosc.* 6:27-30. Jan.1951. 16 Ag827  
Insect control.
- 38250 LIZARRALDE, O. P. Las plagas del ganado y los nuevos insecticidas sinteticos. *Chacra* 21(243):12-13. Feb.1951. 9 C34
- 38251 LYLE, C., HAMNER, A. L., and MURPHREE, L. C. Cotton insect control recommendations. *Miss. Farm Res. [Miss. Sta.]* 14:1-2,8. Jan.1951. 100 M69M1
- 38252 MCDONALD, J. E., and FUDGE, J. F. Agricultural insecticides and fungicides in Texas, 1949-1950. *Tex. Agr. Expt. Sta. C.* 127,15 p. Dec.1950. 100 T31S
- 38253 MADSEN, H. F. Spray program 1951, California. *West. Fruit Grower* 5(2):13-18. Feb.1951. 95.8 G762  
Chiefly for insect control.
- 38254 MATTHEYSE, J. G. Insect section symposium on trees. *Natl. Shade Tree Conf. Proc.* 26:107-113. 1950. 99.9 N218
- 38255 MAUGHAN, F. B., MIZELL, F. M., and NICHOLS, J. P. Further studies on aerosol formulations with lethane and other toxicants. *Soap & Sanit. Chem.* 27(2):125,127,131. Feb.1951. 307.8 So12
- 38256 MAY, A. W. S. Pest control in apples in the Granite Belt. *Queensland Prod.* 32(23):14-15. Dec.6, 1950. 23 Q35
- 38257 MAYER, K. Bienen und pflanzenschutz. *Nachrbl. f. den Deut. Pflanzenschutzdienst (n.s.)* 4:201-205. Ref. Nov.1950. 464.9 N11
- 38258 MICHELBAACHER, A. E., MIDDLEKAUFF, W. W., and STEVENSON, E. E. Tomato insect survey; studies indicate direct field seeding increases early season problem. *Calif. Agr. [Calif. Sta.]* 4(12):4,10. Dec.1950. 100 C12Cag



- 38259 MILEY, D. G. Progress in control of cotton insects. Cotton Gin & Oil Mill Press 52(5):97-100. Mar.3,1951. 304.8 C822  
Work at Delta Branch Experiment Station, Stoneville, Miss.
- 38260 MILLER, H. F., and GAINES, J. C. Size of spray nozzle in relation to cotton insect control. Cotton Gin & Oil Mill Press 52(4):36. Feb.17,1951. 304.8 C822
- 38261 MORGAN, W. L. Control of insect pests of canning vegetable crops in the central-western slopes districts. Agr. Gaz. N. S. Wales 61:636-640. Dec.1,1950. 23 N472
- 38262 MOSCOW. STANTSINĀ ZASHCHITY RASTENIĀ. Vremennye tekhnicheskie ukazaniia po bor'be s vreditel'ami i bolezniami zelenykh nasazhdenii g. Moskvy na 1950 god. [Temporary technical instructions for 1950 on the control of pests and diseases of ornamental plantings in Moscow]. Moskva, 1950. 31 p. 464.4 M85
- 38263 MÜLLER, F. Winterobstbaumspritzung 1949/50 im Stadtgebiet Ludwigshafen. Anz. f. Schädlingssk. 24:4-7. Jan.1951. 421 An9
- 38264 NEUMANN, H. Entwesung durch fliehkraft. Verlustarme getreidelagerung und -verarbeitung in mühlenbetrieben durch schädlingbekämpfung. Gesunde Pflanzen 2:177-178. July 1950. 464.8 G33
- 38265 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Insect pests. Agr. Gaz. N. S. Wales 61:641-644. Dec.1,1950. 23 N472  
Heliothis armigera; Vasates destructor; Liponyssus bacoti; Liponyssus bursa; and Dermanyssus gallinae.
- 38266 NIKLAS. Ein heer von schädlingen. Gesunde Pflanzen 2:249-251. Oct.1950. 464.8 G33  
Insect pests in Germany.
- 38267 NIKLAS. Wir schützen die pflanzen; schädlinge machen uns unsere erzeugnisse streitig. Dir Hilft die Landmasch. 1(2):16. Nov.1950. 58.8 D62  
Pest and disease control.
- 38268 THE 1951 STATE guides for insect control. Cotton Gin & Oil Mill Press 52(5):24,26,49-54,56,65-67, 82-83,92,94-96,100-118. Mar.3,1951. 304.8 C822
- 38269 O'NEILL, W. J. Spray program 1951, Washington; pest control for apples and pears. West. Fruit Grower 5(2):33-34. Feb.1951. 95.8 G762  
Insects.
- 38270 ORDISH, F. G. 'Agrocidie' cotton dusts. Plant Protect. Overseas Rev. 2:33-34. Jan.1951. 464.8 P69  
Benzene hexachloride preparation.
- 38271 ORENGO, F. Dichlorodiphenyltrichloroethane. (In Italian.) Chimica 6:3-8. Jan.1951. 385 C445
- 38272 PAL, R. Synergistic action of DDT and BHC combined sprays. Nature [London] 167:368. Mar.3,1951. 472 N21
- 38273 PALM, C. E. Problems in a pest control program for the canning industry. Natl. Canners Assoc. Inform. Let. 1325:110-113. Feb.28,1951. 389.9 N214In  
Insects.
- 38274 PARR, T. Some essential characteristics of insecticide emulsions. Trees 11(2):6. Jan./Feb.1951. 95.8 W52
- 38275 PATTON, T. E., JR., and WHITTEMORE, F. W., JR. Insecticide resistance problems encountered by the Army during 1949. N. J. Mosquito Extermin. Assoc. Proc. 37:199-203. 1950. 420 N46
- 38276 PIRIE, H. Insecticides in industry and public health. Chem. & Indus. 1951:100-104. Feb.10,1951. 382 M31C
- 38277 LAS PLAGAS del algodón. Campo [Tacuba] 18(705):38-39,42,46,48,50,52-53. Nov.30,1950. 8 C157  
Insect pests in Mexico.
- 38278 POWELL, D., CHANDLER, S. C., and KELLEY, V. W. Pest control in commercial fruit plantings, 1951. Ill. Agr. Col. Ext. C. 678,39 p. Jan.1951. 275.29 IL62C  
A revision of Circular 653.  
Insects and diseases.
- 38279 PRINCI, F. Environmental health aspects of certain agricultural pesticides. Agr. Chem. 6(2):30-33. Feb.1951. 381 Ag8  
Includes insecticides.
- 38280 PRINCI, F., and SPURBECK, G. H. A study of workers exposed to the insecticides chlordan, aldrin, dieldrin. Arch. Indus. Hyg. & Occup. Med. 3:64-72. Jan.1951. 449.8 Ar24
- 38281 SALERNO, P. R., and COON, J. M. Drug protection against the lethal action of parathion. Arch. Internat. de Pharmodyn. et de Thér. 84:227-236. Ref. Dec.1, 1950. 448.8 Ar226  
Tests with atropine, eserine (physostigmine), and neostigmine (prostigmine).
- 38282 SCHIAVI, A., and PROENÇA, L. M. A new biological process of residual action of D.D.T. (In Portuguese.) Arq. de Hig. e Saúde Púb. 13(35/38):129-138. 1948, pub.1950. 449.8 Ar6  
English summary.
- 38283 SCHREAD, J. C. Control of turf insects. 2. Prof. Gard. 3:9-10. Jan.1951. 80 P945  
Ants, sod webworms (Crambus spp.), and cutworms.
- 38284 SCHRODT. Qualitätsminderung bei kernobst durch schädlingbefall. Gesunde Pflanzen 2:281-282. Nov.1950. 464.8 G33
- 38285 SCHULZE, W. Die anwendung kontaktinsektizide stoffe enthaltender seife beim hund. Monatsh. f. Vetmed. 6:11-12. Jan.1,1951. 41.8 M742
- 38286 SELLKE, K. Über die tiefenwirkung der modernen insektenbekämpfungsmittel. Nachrbl. f. den Deut. Pflanzenschutzdienst (n.s.):221-227. Ref. Dec. 1950. 464.9 N11
- 38287 SEVERIN, H. C. Hackberry [Celtis] leaf galls; cause—control. S. Dak. Farm & Home Res. [S. Dak. Sta.] 2:40-41. Winter 1951. 100 So82S
- 38288 SHACKLETON, P. Disease—timber's new ally. Canad. Business 24(3):48-50,82-83. Mar.1951. 287 C162  
Biological control of forest insects.
- 38289 SHARP, S. S. Insecticides. Agr. Chem. 6(3):32-34,111,113-114. Mar.1951. 381 Ag8
- 38290 SIMON, M. Más carne para millones; un nuevo insecticida vital para el ganado de las Américas. Hacienda 46(2):42,44. Feb.1951. 6 H11  
Toxaphene mixtures for cattle pest control.
- 38291 SMITH, G. No sure killer as insects bite into new crop. Grain Prod. News 3(7):19-20. Jan.1951. 286.81 G764
- 38292 SMITH, J. B. Insect damage in stored grain. Kans. State Bd. Agr. Rpt. 69(296):59-69. Apr.1950. 2 K13Re  
Includes discussion.
- 38293 SOMERS, R. K. Pest control in federally-inspected meat packing plants. Pest Control 19(3):9-10. Mar.1951. 449.8 Ex8
- 38294 SOUTH CAROLINA. EXTENSION COTTON COMMITTEE. Cotton production; insect and disease control, South Carolina, 1951. Clemson Agr. Col. S. C. Ext. C. 358,16 p. Jan.1951. 275.29 So8E
- 38295 TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. Guide for controlling cotton insects in Texas, 1951. Tex. Agr. Col. Ext. C. 182,8 p.-folder. Dec.1950. 275.29 T312C
- 38296 THARP, W. H. Interrelationship of insect control, defoliation, and cultural practices. Cotton Gin & Oil Mill Press 52(5):36,38-39. Mar.3,1951. 304.8 C822
- 38297 TIDMAN, D. A. Some agricultural and horticultural problems in Brazil. Plant Protect. Overseas Rev. 2:20-32. Jan.1951. 464.8 P69  
Insect pests and plant diseases.
- 38298 TILEMANS, E. M. J. Pesticide control problems. Agr. Chem. 6(2):44-45. Feb.1951. 381 Ag8  
Insecticide and fungicide regulation.
- 38299 TOPLEY, B. Insecticidal phosphorus compounds. Chem. & Indus. 1950:859-868. Dec.30,1950. 382 M31C
- 38300 TUNBLAD, B. Control of pests on our house plants. (In Swedish.) Trädgårdstidningen 22(12):6-7,27. Dec.1950. 80 T67
- 38301 TURK, R. D. Animal parasites and control measures illustrated. Kans. Vet. Med. Assoc. Proc. 46:108-118. 1950. 41.9 K133  
Lice, ticks, mites, etc.
- 38302 TURNER, N. Control of tobacco insects. Conn. (State) Agr. Expt. Sta. C. 179,16 p. Dec.1950. 100 C76St
- 38303 UNTERSTENHÖFER, G. Betrachtungen über die methoden zur ermittlung des wirkungsgrades von pflanzenschutzmitteln. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:93-99. Mar./Apr.1950. 464.8 Z3  
Insecticides.
- 38304 UNTERSTENHÖFER, G. Über den gegenwärtigen stand der inneren therapie der pflanze. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:272-281. Ref. July/Aug.1950. 464.8 Z3  
Systemic insecticides.



38305 VINSON, E. B., and ARANT, F. S. Parathion, toxaphene and DDT residues on peanut hay. *J. Econ. Ent.* 43:942-943. Dec.1950. 421 J822

38306 WEINMEISTER, B. Sparsame schädlingsbekämpfung im feidbau. *Pflanzenarzt* 4:3-5. Jan.1,1951. 464.8 P482

38307 WELCH, C. L. Cotton insects can and must be controlled in 1951. *Cotton Gin & Oil Mill Press* 52(5):29, 80. Mar.3,1951. 304.8.C822

38308 WHITE, A. N. Insect control as affected by the freeze. *Tex. Farming & Citricult.* 27(8):9. Feb.1951. 80 T31

38309 WHITE, A. N. Lookout for insects on vegetables. *Tex. Farming & Citricult.* 27(8):11. Feb.1951. 80 T31

38310 WILCOX, J., and HOWLAND, A. F. Tests of new insecticides for control of tomato insects in southern California. *J. Econ. Ent.* 43:883-887. Dec.1950. 421 J822

*Heliothis armigera*, *Laphygma exigua*, *Protoparce* spp., cutworms, *Liriomyza pusilla*, and *Vasates destructor*.

38311 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Control cattle lice, cattle grubs [*Hypoderma*], sheep ticks [*Melophagus ovinus*], garden insects with 1 1/2% rotenone dust. *Wis. Agr. Col. Ext. Spec. C.*, 4 p. Jan. 1951. 275.29 W75S

38312 WRIGHT, J. M., and APPLE, J. W. Dusts and sprays for vegetable insects. *Ill. Agr. Col. Ext. C.* 672, 12 p. Nov.1950. 275.29 IL62C

38313 WRIGHT, J. M., and APPLE, J. W. How to know the common vegetable insects. *Ill. Agr. Col. Ext. C.* 671, 38 p. Nov.1950. 275.29 IL62C

#### APICULTURE AND APIS MELLIFERA

38314 ADDINGTON, R. The beekeeper's handy box. *Wiltshire Beekeepers' Gaz.* 70:13. Nov./Dec.1950. 424.8 W71

38315 ADDINGTON, R. From British standard to Langstroth. *Wiltshire Beekeepers' Gaz.* 68:5. July/Aug. 1950. 424.8 W71

38316 ADOLF, E. Königinnen in reservkasten statt in zuchtkasten. *Schweiz. Bienen-Ztg.* 73:547-549. Dec. 1950. 424.8 Sch9

38317 ALEX, A. H., THOMAS, F. L., and WARNE, B. Importance of bees in vetch seed production. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1306, 3 p. Dec.26,1950. 100 T31P

38318 AMERY, J. W. Points on breeding bees. *Scot. Beekeeper* 27:26. Feb.1951. 424.8 Sco8

38319 BARAS, A. Faisons le point de l'apiculture dans le Nord de la France. *Synd. Apic. d'Artois et du Nord de la France. B. Mens.* 6:321-323. Dec.1950. 424.9 Sy7

38320 BARAS, A. La question du remplacement des reines. *Synd. Apic. d'Artois et du Nord de la France. B. Mens.* 6:324-326. Dec.1950. 424.9 Sy7

38321 BARKER, P. K. The tale of an unexplained queen. *Bee Craft* 33:7. Jan.1951. 424.8 B3925

38322 BARTLETT, R. C. Beekeepers and regulations for their control. *Wiltshire Beekeepers' Gaz.* 69:2-3. Sept./Oct.1950. 424.8 W71

38323 BESSONET, E. C. What's holding back the pollination program? *Bees* 4:112. Nov.1950. 424.8 So83

38324 BLACK, A. B. Beekeeping in Oregon. *Gleanings Bee Cult.* 79:146-150. Mar.1951. 424.8 G47

38325 BRIER, J. H. When will the flow begin? *Wiltshire Beekeepers' Gaz.* 68:6-8. July/Aug.1950. 424.8 W71

38326 BRINK, B. Pollination hits the jack pot. *Mod. Beekeeping* 35:414-415. Dec.1950. 424.8 B397

38327 BRITISH BEE-KEEPERS' ASSOCIATION. RESEARCH COMMITTEE. Screened nuclei. A method of management for queen raising, swarm control and increase. *Wiltshire Beekeepers' Gaz.* 67:6-8. May/June 1950. 424.8 W71

38328 BRÖKER, W. Besteht bienengefährdung bei sachgemässer schadinsektenbekämpfung? *Gesunde Pflanzen* 2:260-261. Oct.1950. 464.8 G33

38329 BUTLER, C. G. How flowers attract bees. *Countryman* [Burford] 43:120-124. Spring 1951. 281.28 C832

38330 CABEZAS, J. Antes que los bancos, fueron los positos. *Valencia Avic.* 7:25-26. Oct.1950. 47.8 V23

Suggestions for financing the apiculture industry in Spain.

38331 CAILLAS, A. Le blocage de la ponte. *Cahiers Apic.* 1950:18-21. Apr./June 1950. 424.8 C73

38332 CALE, G. H. The effect of costs on management. *Amer. Bee J.* 91:104-105. Mar.1951. 424.8 Am3

38333 CANNING, J. F., and ABEL, P. M. Bees by the billion [in Alberta]. *Country Guide* 70(2):13,30,32-33. Feb.1951. 7 G76

38334 CAVALLO, E. The mechanical uncapper. (In Italian.) *Apic. d'Italia* 17:263. Dec.1950. 424.8 Ap372

38335 CHAMBERLIN, N. R. Packages and overwintered colonies. *Amer. Bee J.* 91:99. Mar.1951. 424.8 Am3

38336 COQUEREL, J. Pour plus de cohérence. *Synd. Apic. d'Artois et du Nord de la France. B. Mens.* 6:334-336. Dec.1950. 424.9 Sy7

38337 CURY, R. Diseases of adult bees. 9-12. (In Portuguese.) *Biológico* 16:163-169. Aug.1950. 442.8 B529

9, Dysentery; 10, Spring disease; 11, Autumn disease; 12, Forest disease.

38338 CURY, R. Poorly determined (or little studied) bee diseases. (In Portuguese.) *Biológico* 16:198-202. Oct.1950. 442.8 B529

38339 DECOTTE, F. Sur la pesée des ruches, son opportunité en gratte-ciel. *Cahiers Apic.* 1950:23-25. Oct./Dec.1950. 424.8 C73

38340 DIANA, E., and VECCHI, A. Important studies in Sardinia on a parasite of the adult bee [*Senotainia tricuspidis*]. (In Italian.) *Apic. d'Italia* 17:251-255. Dec. 1950. 424.8 Ap372

38341 DIEMER, G. Let's look at some newer methods of beekeeping. *Bees* 4:113,116. Nov.1950. 424.8 So83

38342 DIETZ, G. Influence des "races" dans la conduite du "G.-C." *Cahiers Apic.* 1950:8-12. Oct./Dec. 1950. 424.8 C73

English summary, p.53.

38343 DUBOST, M. M. C. La nosémose des abeilles domestiques. *Nancy, Grandville, 1950.* 64 p. Ref. 424 D853

38344 DUGAT, M. Fécondation naturelle dirigée. *Cahiers Apic.* 1950:46-47. Apr./June 1950. 424.8 C73

English summary, p. 57-58.

38345 DUGAT, M. Une magnifique découverte. La ruche en verre thermolux bleu résout le problème de l'isothermie en apiculture. *Cahiers Apic.* 1950:79-82. Jan./Mar.1950. 424.8 C73

English summary, Apr./June 1950, p. 55-57.

38346 DUGAT, M. Les micro-climats en apiculture. *Cahiers Apic.* 1950:41-44. Jan./Mar.1950. 424.8 C73

English summary, p. 70.

38347 DUGAT, M. Ruches à reines multiples. *Cahiers Apic.* 1950:35-38. Jan./Mar.1950. 424.8 C73

English summary, p. 70.

38348 EVENIUS. Bienenschädliche pflanzenschutzmittel; eine neue verordnung gegen ihre unsachgemässe anwendung. *Gesunde Pflanzen* 2:93-94. Apr.1950. 464.8 G33

38349 FELSING, E. Gedanken um die zucht. *Bienenwarte* 3:316-317. Dec.25,1950. 424.8 B4722

38350 FORSTER, I. W. Pollination: the importance of honey bees. *New Zeal. J. Agr.* 81:539,541,543-544. Dec. 15,1950. 23 N48J

The principles of plant fertilization and the relative value of the various pollinating agents.

38351 FOWLE, F. E. Instinct or reason. *Wiltshire Beekeepers' Gaz.* 87:4-5. May/June 1950. 424.8 W71

38352 FRASER, H. M. The friends of the bees. *Beekeepers' Rec.* 63:247-248. Dec.1950. 424.8 B398

38353 FRASER, H. M. How the bees improved their position. *Beekeepers' Rec.* 63:226-227. Nov.1950. 424.8 B398

Evolution and behavior.

38354 FRASER, H. M. Old beekeepers. *Beekeepers' Rec.* 63:185. Sept.1950. 424.8 B398

38355 FROW, R. W. Acarine disease. *Scot. Beekeeper* 27:4. Jan.1951. 424.8 Sco8

38356 GAILLARD, R. Le ruchier familial. *Cahiers Apic.* 1950:3-5. Apr./June 1950. 424.8 C73

38357 GEERKEN, B. Die spinnen-nächtliche jagd auf blutsauger. *Niedersächs. Bienenfr.* 1950:319. Nov.1950. 424.8 N552



- 38358 GEIGER, J. E. Geiger urges stepped up production. West. Canada Beekeeper 14(3):2,7. Mar.1951. 424.8 W525
- 38359 GEIGER, J. E. Overhauling equipment in winter. West. Canada Beekeeper 14(2):2,8. Feb.1951. 424.8 W525
- 38360 GENIEZ, P. Mon premier gratte-ciel suivant la méthode du Père M. Dugat. Cahiers Apic. 1950:31-32. Jan./Mar.1950. 424.8 C73  
English summary, p. 70
- 38361 GOROSTIDI E YMAZ, A. Las básculas en el colmenar. Valencia Avic. 7:39. (To be cont.) Dec.1950. 47.8 V23
- 38362 GREENAWAY, J. Escapology. Wiltshire Beekeepers' Gaz. 68:3-4. July/Aug.1950. 424.8 W71
- 38363 HANLAN, R. M. Brief history of bees. West. Canada Beekeeper 14(2):7-8. Feb.1951. 424.8 W525
- 38364 HARMSSEN, F. How I started beekeeping. So. African Bee J. 25(5):5. Dec.1950. 424.8 So82
- 38365 HAYDAK, M. H. Beekeeper's winter. Minn. Beekeeper 4:7-10. Jan.1951. 424.8 M66
- 38366 HECKENDORN-SCHWEIZER, F. Die Überwinterung von Reservévölkern im keller. Schweiz. Bienen-Ztg. 73:580-581. Dec.1950. 424.8 Sch9
- 38367 HERROD-HEMPSTALL, J. How to make a straw skep. Beekeepers' Rec. 64:267-268. Jan.1951. 424.8 B398
- 38368 HILGER, R. Wenn die bienen schlafen. Luxemburg. Bienen-Ztg. 65:187-188. Dec.1950. 424.8 L97
- 38369 HOCKING, B. Some peculiarities of bee behavior. West. Canada Beekeeper 14(2):3-4,6-7. Feb. 1951. 424.8 W525
- 38370 HOLZBERLEIN, J. W., JR. The other side of the pollination picture. Amer. Bee J. 91:96-98. Mar. 1951. 424.8 Am3
- 38371 HUBERTY. Von kröten, meisen und spinnen. Luxemburg. Bienen-Ztg. 65:191-193. Dec.1950. 424.8 L97  
Bee predators.
- 38372 ILTON, C. D. The small beekeeper. Victoria. Dept. Agr. J. 48:556-557. Dec.1950. 23 V66J
- 38373 IOIRISH, N. P. On immunity [of beekeepers] to bee venom. (In Russian.) Priroda 39(9):60-61. Ref. Sept.1950. 410 P933
- 38374 JARVIS, R. Some experimental microsyringes for the instrumental insemination of queen honeybees. Bee World 32:18-20. Mar.1951. 424.8 B399
- 38375 KARRAKER, W. Air transportation of package bees. Gleanings Bee Cult. 79:154-155. Mar.1951. 424.8 G47
- 38376 KEISER, F. Honig aus unbebrüteten waben: ein interessantes problem, betreffend honigqualität, betriebsweise und biologie. Luxemburg. Bienen-Ztg. 66:6-8. Jan.1951. 424.8 L97
- 38377 KELLEY, W. T. California—the Golden State. Mod. Beekeeping 35:6-17,20-23,27. Jan.1951. 424.8 B397  
Apiculture.
- 38378 KELLEY, W. T. We visit the fabulous states of Washington and Oregon. Mod. Beekeeping 35:396-409. Dec.1950. 424.8 B397
- 38379 KNAPP, O. Die zellstellung. Deut. Bienenztg. 6:6-7. Jan.1,1951. 424.8 D488
- 38380 KRANEFUSS. Warum eine verordnung zum schutze der bienen? Landwirt. Wehnl. f. Westfalen u. Lippe 108A:199-200. Feb.8,1951. 18 L2346  
Injuries to bees by insecticides.
- 38381 KUHL, W. Gedanken zur schweiermethode. Niedersächs. Bienenfr. 1950:305-306. Nov.1950. 424.8 N552
- 38382 LACOUR, L. Physique et apiculture. Cahiers Apic. 1950:45-47. Jan./Mar.1950. 424.8 C73  
English summary, p. 70-71.  
Electric heating of hives.
- 38383 LAUER, W. The building frame in the hive. Scot. Beekeeper 27:10. Jan.1951. 424.8 Sco8
- 38384 LEHNART, A. Die vermeintliche klugheit der bienen. Deut. Bienenztg. 6:13-14. Jan.1,1951. 424.8 D488
- 38385 LEPIK, E. Die durch insektengifte hervorgerufenen verwirrungserscheinungen bei honigbien. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57: 43-46. Jan./Feb.1950. 464.8 Z3
- 38386 LEVITT, F. Beehive in a hedge in Warwickshire. Beekeepers' Rec. 63:209-210. Oct.1950. 424.8 B398
- 38387 LEVY, C. W. American-Italian queens. Scot. Beekeeper 27:20. Feb.1951. 424.8 Sco8
- 38388 LUNDIE, A. E. Swarm control. So. African Bee J. 25(5):3-4. (Cont.) Dec.1950. 424.8 So82
- 38389 MAINELLI, M. Snow and beehives. (In Italian.) Colt. e Gior. Vinic. Ital. 97(1):7-9. Jan.15,1951. 16 C72
- 38390 MANNING, F. J. Sex-determination in the honey bee. IX. Polarization of the bivalents. Microscope 8:129-131. Jan./Feb.1951. 440.8 M584
- 38391 MARGGRAFF, W. Die imkerei im mitttelalter. Deut. Bienenztg. 6:12-13. Jan.1,1951. 424.8 D488
- 38392 MARZORATI, O. El diagnóstico de la acariosis por las alas de las abejas. Chacra 21(240):58-59. Nov. 1950. 9 C34
- 38393 MASTERMAN, J. The Ligurian bees of Kangaroo Island. So. Austral. Dept. Agr. J. 54:243-246. Dec. 1950. 23 So84
- 38394 MAURIZIO, A. Pollen analysis of honey. Bee World 32:1-5. Ref. Jan.1951. 424.8 B399
- 38395 MILNE, P. S. Apimyiasis. Gt. Brit. Min. Agr. Agriculture 57:534-536. Feb.1951. 10 G79J  
Chiefly Senotainia tricuspis.
- 38396 MITTMANN, F. Une ruche divisible allemande moderne: la winterhagen. Cahiers Apic. 1950:27. Apr./June 1950. 424.8 C73
- 38397 MORADELL, F. Acabemos con el desamparo! Valencia Avic. 7:26-27. Oct.1950. 47.8 V23  
Proposing an organization of Spanish apiculturists.
- 38398 MORY, R. Premier essai de gratte-ciel dans le Nord, en 1949. Cahiers Apic. 1950:9-10. Apr./June 1950. 424.8 C73  
English summary, p. 57.
- 38399 MÜLLER, E. Richtige markierung von bienenstöcken und -ständen. Niedersächs. Bienenfr. 1950:308-310. Nov.1950. 424.8 N552
- 38400 MUTTOO, R. N. Migratory bee-keeping. Indian Bee J. 12:162-167,172. Nov./Dec.1950. 424.8 In2
- 38401 MUZZATI, G. Skyscrapers. (In Italian.) Apic. d'Italia 17:264-268. Dec.1950. 424.8 Ap372
- 38402 NEW ZEALAND. DEPT. OF AGRICULTURE. HORTICULTURE DIV. Dealing with American foul-brood. New Zeal. J. Agr. 81:558. Dec.15,1950. 23 N48J
- 38403 NEWALD, E. Imkerhilfe. Niederösterr. Imker 1:287-291. Nov.1950. 424.8 N55
- 38404 NEWALD, E. Unser wabenbau. Niederösterr. Imker 1:307-311. Dec.1950. 424.8 N55
- 38405 NICAISE, A. La standardisation. Synd. Apic. d'Artois et du Nord de la France. B. Mens. 6:326-330. (Concl.) Dec.1950. 424.9 Sy7  
Beehives.
- 38406 ONCKEN, W. Hohler baumstamm, naturwohnung der bienen. Niedersächs. Bienenfr. 1950:329. Dec. 1950. 424.8 N552
- 38407 POHL. Gedanken zur verbesserung der bienenweide. Niedersächs. Bienenfr. 1950:321-322,344-346. (Cont.) Nov.-Dec.1950. 424.8 N552  
Honey flow.
- 38408 PURSEY, M. Know your bees. Bee Craft 33: 10. Jan.1951. 424.8 B3925  
Spiracles. Sounds made by bees (including Bombus).
- 38409 RAMACHANDRAN, S., and MAHADEVAN, V. Preliminary studies on brood-rearing and hive-population of Apis indica F. Indian Bee J. 12:154-157. Nov./Dec.1950. 424.8 In2
- 38410 RAUTENBERG, H. J. Bienenkrankheiten, schädlingbekämpfung und zuchtziel. Deut. Bienenztg. 6:2-4. Jan.1,1951. 424.8 D488
- 38411 ROCK, H. J. Spring management. Gleanings Bee Cult. 79:142-144. Mar.1951. 424.8 G47
- 38412 RYAN, A. F., and CUNNINGHAM, D. G. Some observations on the control of American foul brood disease of bees by the use of sulphathiazole. Tasmania. Dept. Agr. Tasmanian J. Agr. 21:313-317. Nov.1,1950. 23 T182T
- 38413 SALKELD, E. H. A toxicological and histophysiological study of certain new insecticides as "stomach poisons", to the honey bee Apis mellifera L. Canad. Ent. 83:39-52. (To be cont.) Feb.1951. 421 C16  
Tests with lead arsenate, parathion, and DDT preparations.
- 38414 SANDERSON, A. R., and HALL, D. W. Sex in the honey-bee. Endeavour 10(37):33-39. Ref. Jan.1951. 472 En2
- 38415 SCHMID, H. Auffütterung. Niederösterr. Imker 1:327. Dec.1950. 424.8 N55



- 38416 SCHMIDT, H. Mein kleinwanderwagen. Deut. Bienenztg. 6:4-6. Jan.1,1951. 424.8 D488
- 38417 SCHUBERT, A. Ein neues zeichenverfahren für königinnen. Niedersächs. Bienenfr. 1950:344. Dec. 1950. 424.8 N552
- 38418 SKLENAR, G. Imkers arbeiten im dezember. Niederöstrerr. Imker 1:305-306. Dec.1950. 424.8 N55
- 38419 STANLEY, O. Crianza de reinas. Agr. Austral 18:482-483. (Concl.) Oct.1950. 9.3 Ag842
- 38420 STAUDIGL, H. Beitrag zur klärung der milbenfrage. Niederöstrerr. Imker 1:314-316. Dec.1950. 424.8 N55
- 38421 STEFFEN. Chinosol gegen nosema? Niedersächs. Bienenfr. 1950:330. Dec.1950. 424.8 N552
- 38422 SUJA GONZÁLEZ, D. E. Plan sanitario apícola. Valencia Avic. 7:35-37. Dec.1950. 47.8 V23  
Disease control in Spain.
- 38423 SUMPFF, K. C. Der weg voraus. Beziehungen zwischen wabenbau, wärmehaushalt und bienenwohnung. III. Bienenwarte 4:2-3. Jan.10,1951. 424.8 B4722
- 38424 THOMAS, W. Bees for pollinating red clover. Gleanings Bee Cult. 79:137-141. Mar.1951. 424.8 G47
- 38425 TONSLEY, C. C. Candy box clearer. Beekeepers' Rec. 63:186-188. Sept.1950. 424.8 B398
- 38426 TOWNER, E. B. Two men, nine hives and a trailer. Bee Craft 33:8. Jan.1951. 424.8 B3925  
Migratory experiences.
- 38427 TREMBLETT, E. G. W.B.C. hives and condensation. Beekeepers' Rec. 63:246. Dec.1950. 424.8 B398
- 38428 U. S. BUR. OF AGRICULTURAL ECONOMICS. Shipments of package bees in 1950. Washington, 1951. 2 p. 1.941 S8B39
- 38429 VISWANATHAN, H. Bee-keeping statistics for Bombay State. Indian Bee J. 12:125-127. Sept./Oct. 1950. 424.8 In2
- 38430 WEILER, F. Aufbau des bienenwirtschaftlichen beobachtungsdienstes in Oesterreich. Niederöstrerr. Imker 1:297-299. Nov.1950. 424.8 N55
- 38431 WELKER, K. Die dreiräumige beute - das stiefkind der normung. Deut. Bienenztg. 6:7-10. Jan.1, 1951. 424.8 D488
- 38432 ZIEGLER, R. J. The beekeeper's winter. Mod. Beekeeping 35:410-413. Dec.1950. 424.8 B397
- 38433 ZIEGLER, R. J. The tale of two bee hives. Mod. Beekeeping 35:24-27. Jan.1951. 424.8 B397
- ARACHNIDA, MYRIAPODA, ETC.**
- 38434 ARTHUR, D. R. Acaricidal control of the tick, *Ixodes ricinus* (L.) on cattle. B. Ent. Res. 41:555-562. Ref. Feb.1951. 421 B87
- 38435 BARNES, M. M., and MCCORNACK, A. A. Grape bud mite [*Eriophyes vitis*] injury. Calif. Agr. [Calif. Sta.] 5(1):5. Jan.1951. 100 C12Cag
- 38436 BEAR, E. M. Fruit tree red spider [*Paratetranychus pilosus*] survives a wet summer. Grower [London] 34:1272-1273, 1275. Dec.16,1950. 286.83 M34
- 38437 BÉRENI, J. Quelques remarques sur la biologie d'un scorpion saharien *Orthochirus innesi* E. Simon. Inst. Pasteur d'Algérie. Arch. 28:509-511. Dec. 1950. 448.3 In7A
- 38438 BORDEN, A. D., and MADSEN, H. F. Spider mite control; acaricides show selectivity on apples and pears in northern California. Calif. Agr. [Calif. Sta.] 5(3):6,14. Mar.1951. 100 C12Cag  
Chiefly *Paratetranychus pilosus*.
- 38439 BREakey, E. P., and BATCHELOR, G. S. Phylloidy of chrysanthemum and the eriophid mite, *Paraphytosus chrysanthemi* Keifer. Ent. Soc. Amer. Ann. 43:492-494. Dec.1950. 420 En82
- 38440 BUHK, F. Erfahrungen in der bekämpfung der johannisbeergallmilbe *Eriophyes ribis* Nal. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:281-282. July/Aug.1950. 464.8 Z3
- 38441 CHABAUD, A. G. L'infestation par des *Ixodines* provoque-t-elle une immunité chez l'hôte? (2me note). Ann. de Parasitol. Humaine et Compar. 25:474-479. 1950. 436.8 An7  
Tests with *Rhipicephalus sanguineus*, *Dermacentor pictus*, etc.
- 38442 COLLINS, D. L., and NARDY, R. V. Effects of DDT spray residues on larvae of the tick *Dermacentor variabilis*, Say. J. Econ. Ent. 43:861-863. Dec.1950. 421 J822
- 38443 DAVIS, G. E. Parthenogenesis in the argasid tick *Ornithodoros moubata* (Murray, 1877). J. Parasitol. 37:99-101. Feb.1951. 448.8 J824
- 38444 DEBACH, P., FLESCNER, C. A., and DIETRICK, E. J. Studies of the efficacy of natural enemies of citrus red mite [*Paratetranychus citri*] in southern California. J. Econ. Ent. 43:807-819. Ref. Dec. 1950. 421 J822
- 38445 DIAS, J. A. T. S. *Rhipicephalus plesii* n. sp., parasite of *Paraxerus cepapi auriventris* Roberts, 1926, in Mozambique. (In Portuguese.) Moçambique 62:133-141. Apr./June 1950. 110 M71  
English summary.
- 38446 DORST, H. E., and KNOWLTON, G. F. Tomato russet mite [*Vasates destructor*]. Utah State Agr. Col. Ext. B. 216,2 p. Jan.1951. 275.29 Ut1
- 38447 EDWARDS, G. R. Insect pests of vegetable crops. IV. Insect pests of peas. So. Austral. Dept. Agr. J. 54:195-199. Nov.1950. 23 So84  
Includes *Halotydeus destructor*, *Penthaleus major*, and *Sminthurus viridis*.
- 38448 ENGLISH, L. L. Azobenzene as an effective supplement in organic phosphate aerosols for control of the two-spotted spider mite [*Tetranychus bimaculatus*]. J. Econ. Ent. 43:838-843. Dec.1950. 421 J822
- 38449 EVANS, G. O. The distribution and economic importance of *Ixodes ricinus* (L.) in Wales and the Welsh border counties with special reference to N. W. Cardiganshire. B. Ent. Res. 41:469-485. Ref. Feb.1951. 421 B87  
On sheep and cattle.
- 38450 EVANS, G. O. The seasonal incidence of *Ixodes ricinus* (L.) on cattle in Mid-Wales. B. Ent. Res. 41:459-468. Ref. Feb.1951. 421 B87
- 38451 FISHER, A. A., and others. Concurrent infestation with a rare mite [*Dermatophagoides scheremetewskyi*] and infection with a common dermatophyte [*Trichophyton purpureum*]. Arch. Dermat. & Syph. 63:336-342. Mar.1951. 448.8 Ar242  
A. G. Franks, M. Wolf, and M. Leider, joint authors.
- 38452 GARCÍA, R. J., and RIED, L. A. Hay mites *aves atacadas de garrapata*. Chacra 21(240):54-55. Nov. 1950. 9 C34
- 38453 GOULD, D. J. A new species of chiggers from California (Acarina: Trombiculidae). Wasmann J. Biol. 8:367-370. Fall 1950. 442.8 W28  
In Trombicula.
- 38454 HACKMAN, W. *Synangeles venator* Luc. (Ara-neae, Salticidae) found in the environment of Helsingfors. (In Swedish.) Soc. pro Fauna et Flora Fenn. Memo. (1948-49)25:14-15. 1950. 511 H365Me
- 38455 HOFF, C. C. A new species and some records of tridenchthoniid pseudoscorpions. Ent. Soc. Amer. Ann. 43:534-536. Dec.1950. 420 En82  
New species in *Tridenchthonius*.
- 38456 HOFMASTER, R. N., and GREENWOOD, D. E. Control of the two-spotted spider mite [*Tetranychus bimaculatus*] on strawberries. Va. Agr. Col. Ext. Veg. G. Growers News 5(9):4. Mar.1,1951. 275.28 V52
- 38457 HOLLANDER, W. F. Mysterious mites. All-Pets Mag. 22(2):62,65. Feb.1951. 48.8 AL5  
*Falculifer rostratus*, *Megninia columbae*, and *Pterophagus strictus* on pigeons.
- 38458 HUFFAKER, C. B., and SPITZER, C. H., JR. Some factors affecting red mite [*Tetranychus bimaculatus*] populations on pears in California. J. Econ. Ent. 43: 819-831. Ref. Dec.1950. 421 J822  
Insecticides and predators (*Chrysopa californica*).
- 38459 HUGHES, R. D., and GOODE, C. O. Male haploidy in an aneoid mite [*Histioglyphus laboratorum*]. (Abs.) Va. J. Sci. (n.s.):1:349. Sept.1950. 470 V81
- 38460 HYLMO, B. Strawberry mite [*Tarsonemus pallidus*] a very destructive pest on Deutsch Evern. (In Swedish.) Sveriges Pomol. För. Fruktdlaren 21:210-212. 1950. 86 Sv2F
- 38461 IBARRA GRASSO, A. Una plaga potencial del trigo y otras gramíneas. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:96-97. 1950. 59.9 P41  
*Notophallus viridis*?
- 38462 JUDD, W. W. Nymphal mites of the genus *Uropoda* attached to a cerambycid beetle [*Monochamus notatus*]. Ent. Soc. Amer. Ann. 43:608-609. Dec.1950. 420 En82
- 38463 KEEGAN, H. L. The mites of the subfamily *Haemogamasinae* (Acar: Laelaptidae). U. S. Natl. Mus. Proc. 101:203-268. Ref. 1951. 500 Sm65P  
Includes new species and forms in *Haemogamasus*, *Euhaemogamasus*, and *Ischyropoda* n.g.



38464 MCGREGOR, E. A. The taxonomic status of certain tetranychid mites of the United States and Europe. *J. Econ. Ent.* 43:951-952. Dec.1950. 421 J822

Distinctions between *Tetranychus telarius*, *T. bimaculatus*, and *T. althaeae*.

38465 MARPLES, B. J. Pacific symphytognathid spiders. *Pacific Sci.* 5:47-51. Jan.1951. 475 P11  
Patu n.g.

38466 MATTHYSSE, J. G., and NAEGELE, J. A. Mites on woody plants and their control. *Natl. Shade Tree Conf. Proc.* 26:78-90. Ref. 1950. 99.9 N218  
Chiefly on Tetranychidae.

38467 MICKS, D. W. The laboratory rearing of the common fowl tick, *Argas persicus* (Oken). *J. Parasitol.* 37:102-105. Feb.1951. 448.8 J824

38468 MIDDLEKAUFF, W. W., and MICHELbacher, A. E. Mites on walnuts; experimental studies with aramite for spider mite control. *Calif. Agr. [Calif. Sta.]* 5(2):9,15. Feb.1951. 100 C12Cag

38469 MONLUX, W. S., and TURK, R. D. *Pneumonyssus caninum* in a dog. *Cornell Vet.* 41:12-13. Jan.1951. 41.8 C81

38470 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. The tomato mite (*Vasates destructor*). N. S. Wales. Dept. Agr. Insect Pest L. 56, 2 p. 1950. 423.92 N47

38471 NUÑEZ ANDRADE, R. Enfermedad de Nuñez Andrade. *Medicina; Rev. Mex.* 31:63-75. Feb.25,1951. 448.8 M4693

Human acariasis due to *Neoschöngastia nuñezi*.

38472 OFF. INTERNATIONAL D'HYGIÈNE PUBLIQUE. Joint OIHP/WHO study-group on African rickettsioses. Report on the first session, Brazzaville, 8-14 February 1950. *World Health Organ. Tech. Rpt. Ser.* 23, 24 p. Dec.1950. 449.9 W892T

Includes material on tick and louse vectors.

38473 PAFFENBARGER, R. S., JR. Tick paralysis: implicating *Amblyomma maculatum*. *New Orleans Med. & Surg. J.* 103:329-332. Feb.1951. 448.8 N47

38474 PALIMPSESTOV, M. A., and others. Effect of physical and chemical factors in external surroundings on mange mites. (In Russian.) *Veterinariia* 27(10):38-40. Oct.1950. 41.8 V6426

A. G. Ostashevskii, V. A. Fortushnyi, and A. B. Alimova, joint authors.

Psoroptes and Sarcoptes.

38475 PAVLOV, P., and GUEORGUIEV, B. Recherches sur les ixodidés HCH, DDT, gesarol et dedetex poudr. (In Bulgarian.) *Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis.* 18(1):107-118. Ref. 1950. 106.3 R32

French summary.

38476 RAO, N. S. K., and CHOQUETTE, L. P. E. On the finding of an intermediary host for *Moniezia expansa* (Rud. 1810) in eastern Quebec. *Canad. J. Compar. Med.* 15:12-14. Jan.1951. 41.8 C162

Scheloribates laevigatus as vector of sheep tapeworm.

38477 ROSENSTIEL, R. G. Reactions of two-spotted mite [*Tetranychus bimaculatus*] and predator [*Stethorus punctum*] populations to acaricides. *J. Econ. Ent.* 43:949-950. Dec.1950. 421 J822

38478 SCHUBART, O. New Brazilian species of the family Spirostreptidae (Opisthospermophora, Diplopoda). (In Portuguese.) *Dusenla* 1:331-350. Nov.1950. 410 D94

German summary.

New species in *Alloporus*, *Ptenogonostreptus*, and *Conchostreptus*.

38479 SCHUBART, O. Ueber einige diplopoden von Bergmassiv Afr in der Süd Sahara, gesammelt von L. Chopard und A. Villiers im 1947. *Inst. Franç. d'Afrique Noire. B.* 13:116-125. Jan.1951. 515 D14

38480 SMITH, K. G. V. Acarine larvae [Johnstoniana bicingulata, Calypostoma sp.] on *Limonia tripunctata* F. (Dipt., Tipulidae) and [*Diplodontus despiciens*] on a species of *Chironomidae* (Dipt.). *Ent. Mon. Mag.* 87:63. Feb.1951. 421 En86

38481 SOARES, B. A. M. On the heart, the stomato-gastric nervous system and the cardiac circulation of blood in scorpions of the genus *Tityus* C. L. Koch, 1836. (In Portuguese.) *São Paulo. U. Facul. de Fil. Ciên. e Let.* Dept. de Zool. Zool. 15:239-264. Ref. 1950. 410.9 Sa64  
English summary.

38482 SPARAPANI, G. C. Acariasis of canaries. (In Italian.) *Uccelli da Gabbia e da Voliera* 8:184-185. June 1950. 413.8 Uc2

Due to *Dermanyssus hirundinis*.

38483 TRAYER, J. R. Unusual scalp dermatitis in humans caused by the mite, *Dermatophagoides [schere-metewskyi]* (Acarina, Epidermoptidae). *Ent. Soc. Wash. Proc.* 53:1-25. Feb.1951. 420 W27

38484 UNDERHILL, G. W. Late season build-up of the European red mite (*Paratetranychus pilosus* Can. and Fanz.) 1949 in Virginia. (Abs.) *Va. J. Sci. (n.s.)* 1:334-335. Sept.1950. 470 V81

38485 VACHON, M. Études sur les scorpions. V. Détermination des scorpions du nord-ouest de l'Afrique. *Inst. Pasteur d'Algérie. Arch.* 28:383-413. Sept.1950. 448.3 In7A

38486 WHARTON, G. W., and others. The terminology and classification of trombiculid mites (Acarina: Trombiculidae). *J. Parasitol.* 37:13-31. Ref. Feb.1951. 448.8 J824

D. W. Jenkins, J. M. Brennan, H. S. Fuller, G. M. Kohls, and C. B. Phillip, joint authors.

38487 WHITNALL, A. B. M., and others. Some observations on the control of the bont tick, *Amblyomma hebraeum* Koch. *B. Ent. Res.* 41:577-591. Feb.1951. 421 B87

W. M. McHardy, G. B. Whitehead, and F. Meerholz, joint authors.

Benzene hexachloride and DDT tested on cattle in South Africa.

38488 YUST, H. R. Tests of liquefied-gas aerosols used in conjunction with hydrocyanic acid fumigation to control citrus red mite [*Paratetranychus citri*]. *J. Econ. Ent.* 43:945-946. Dec.1950. 421 J822

## COLEOPTERA

38489 ARMSTRONG, G., BRADBURY, F. R., and STANDEN, H. Penetration of the insect cuticle by isomers of benzene hexachloride. *Nature [London]* 167:319. Feb.24,1951. 472 N21

Experiments with *Sitophilus granarius*.

38490 ASQUITH, D. Concentrated sprays to control plum curculio [*Conotrachelus nenuphar*] on peach. *J. Econ. Ent.* 43:843-845. Dec.1950. 421 J822

38491 BERAN, F. Auftreten und bekämpfung des kartoffelkäfers [*Leptinotarsa decemlineata*] in Österreich im Jahre 1950. *Pflanzenschutzberichte* 5:359-372. Dec. 1950. 464.9 P48

English summary.

38492 BLASZYK, P. Der rapserdfloh [Psylliodes chrysocephala]; ein gefährlicher schädling des winterarrases. *Gesunde Pflanzen* 2:242-244. Sept.1950. 464.8 G33

38493 BLOCH, D. Beetledom under fire in Colorado. *Colo. Rancher & Farmer* 5(3):6. Feb.10,1951. 6 C714

Damage to watersheds by *Dendroctonus engelmanni*.

38494 BOBINSKAJA, S. G. Some bio-ecological peculiarities of wireworms [Agriotes and Melanotus]. (In Russian.) *Lesn. Khoz.* 3(7):67-69. July 1950. 99.8 L5622

38495 BONNEVIER, K., and WILSON, H. The treacherous destroyer of wooden buildings; the old house borer [*Hylotrupes bajulus*] causes enormous economic losses. (In Swedish.) *Skogsägaren* 26:239-245. Nov.1950. 99.8 Sk55

38496 BREakey, E. P., and BRANNON, D. Now is the time to watch for strawberry root weevils [Brachyrhinus]. *Better Fruit* 45(9):22-23. Mar.1951. 80 B46

38497 BRENY, R. Petite saperde (Saperda populnea L.) et boutures de peuplier. *Inst. Agron. et Sta. de Rech. de Gembloux. B.* 16(1/2):33-38. 1950. 105.1 G285

English summary.

38498 BRYANT, G. E. New species of Chrysomelidae (Halticinae) from New Guinea, collected by Miss L. E. Cheesman. *Ann. & Mag. Nat. Hist. (ser.12)* 4:157-165. (Cont.) Feb.1951. 410 An77

New species in *Crepidodera*, *Sebaethe*, and *Sutrea*.

38499 CAMERON, M. Three new Staphylinidae from West Africa. *Inst. Franç. d'Afrique Noire. B.* 13:126-128. Jan.1951. 515 D14

In *Stilicus*, *Leptacmus*, and *Belonuchus*.

38500 CHABAUD, A. G. Cycle évolutif, chez des Coléoptères Ténébrionides, de deux espèces de nématodes Hahronematinae (genre Sicarius et genre Hadjella) parasites de Upupa epops L. à banyuls. *Acad. des Sci. Compt. Rend.* 232:564-565. Feb.5,1951. 505 P21

38501 CUTRIGHT, C. R. New insecticides for summer control of apple flea weevil [*Rhynchaenus pallicornis*]. *J. Econ. Ent.* 43:947. Dec.1950. 421 J822



- 38502 DICKER, G. H. L. *Agonum dorsale* Pont. (Col., Carabidae): an unusual egg-laying habit and some biological notes. Ent. Mon. Mag. 87:33-34. Feb.1951. 421 En86
- 38503 DREES, H. Europa und der kartoffelkäfer [Leptinotarsa decemlineata]. Gesunde Pflanzen 2:131-132. June 1950. 464.8 G33
- 38504 DUVAL, G. Control the bamboo borer [Dinoderus minutus] with oil solutions of chlorinated insecticides. (In Portuguese.) Biologico 16:159-162. Aug.1950. 442.8 B529
- 38505 EDWARDS, J. G. Amphizoidae (Coleoptera) of the world. Wasmann J. Biol. 8:303-332. Ref. Fall 1950. 442.8 W28
- 38506 FÉRON. Bases biologiques de la lutte contre le capnode [Capnodis tenebrionis L.]. Acad. d'Agr. de France. Compt. Rend. 36:636-638. Nov.15/22,1950. 14 P215Bc
- 38507 FÉRON. Techniques utilisées dans la lutte contre le capnode [Capnodis tenebrionis]. Acad. d'Agr. de France. Compt. Rend. 36:638-641. Nov.15/22,1950. 14 P215Bc
- 38508 FLEMING, R. L. X-ray detects wheat weevil [Sitophilus granarius]. Kans. Agr. Student 27(2):7,28. Dec.1950. 276.8 K13
- 38509 FRAENKEL, G., and STERN, H. R. The nicotinic acid requirements of two insect species in relation to the protein content of their diets. Arch. Biochem. 30:438-444. Feb.1951. 381 A2
- Tenebrio molitor and Tribolium confusum.
- 38510 GERSDORF, G. Beobachtungen bei der maikäferbekämpfung in Niedersachsen 1950. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:357-359. Sept./Oct.1950. 464.8 Z3
- Melolontha melolontha.
- 38511 GODAN, D. Über die Wirkung des rapserdflohlarven-befalls auf die rapspflanze. Biol. Zent. f. Land- u. Forstwirtschaft. Mitt. 69,35 p. Ref. Sept.1950. 410.9 G31M
- Psylliodes chryscephala.
- 38512 GUENNELON-AUBANEL, G. Observations sur le cycle évolutif de Rhynchites coerules De Geer (Col. Curculionidae). Acad. des Sci. Compt. Rend. 232:656-658. Feb.21,1951. 505 P21
- 38513 GUENNELON-AUBANEL, G., and GRISON, P. Phénomènes de tolérance et de résistance à l'arsénate diplombique chez Rhynchites coerules de Geer (Col. Curculionidae). Acad. des Sci. Compt. Rend. 232:755-756. Feb.19,1951. 505 P21
- 38514 GÜNTHER, E. Verlauf der maikäferbekämpfungs-aktion Sulgen/Thg. 1949. Schweiz. Z. f. Obst- u. Weinbau 60:76-80. Feb.24,1951. 80 Sch9
- Melolontha melolontha.
- 38515 HÄFLIGER, E. Kartoffelkäferbekämpfung und massenwechsel der kartoffelblattläuse. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:14-17. Jan./Feb.1950. 464.8 Z3
- Leptinotarsa decemlineata and Macrosiphum solanifolii.
- 38516 HALIBURTON, W. On the habits of the elm bark borer Physocnemum brevilineum (Say); (Coleoptera: Cerambycidae). Canad. Ent. 83:36-38. Feb.1951. 421 C16
- 38517 LE HANNETON et le ver blanc. Rev. Romande d'Agr., de Vitic. et d'Arbor. 6:89-103. Dec.1950. 17 382A
- Contents: I, Importance du problème et aspects généraux de la lutte, by R. Gallay; II, Biologie du hanneton [Melolontha melolontha, M. hippocastani, Rhizotrogus solstitialis, Phyllopertha horticola, Polyphylla fulva], by A. Savary; III, Lutte contre le hanneton, by P. Geier, E. Horber, P. Schenker, and A. Savary; IV, Lutte contre le ver blanc, by R. Murbach, P. Geier, and P. Bourqui.
- 38518 HARNEY, A. R. Stop the alfalfa weevil [Hypera postica]. Idaho Farmer 69:71,86. Feb.1,1951. 6 G282
- 38519 HARTMANN, H. P. Sensationeller fund auf dem kornboden. Gesunde Pflanzen 2:284-285. Nov.1950. 464.8 G33
- Outbreak of grain weevil (Sitophilus granarius).
- 38520 HENNIG, R. Der sägehörnige bohrrkäfer Hyalecoetus. Forstwirtschaft. Holzwirtschaft. 4:273-274. Sept.1/15,1950. 99.8 F7793
- 38521 HORBER, E. Die engerlingsgrabungen 1950 zur kontrolle des erfolges der waldrandbehandlung zur maikäferbekämpfung bei Sulgen, 1949. Schweiz. Z. f. Obst- u. Weinbau 60:80-84. Feb.24,1951. 80 Sch9
- Melolontha melolontha.
- 38522 JACQUIOT, C. Sur le déterminisme de la formation des tumeurs ligneuses observées chez les chênes attaqués par Agrilus biguttatus Fab. (Coléopt. Buprestidae). Acad. des Sci. Compt. Rend. 231:1552-1554. Dec.18,1950. 505 P21
- 38523 JEANNEL, R. Faune du Congo Belge et du Ruanda-Urundi. II. Pselaphidae. Mus. du Congo Belge. Ann. Sci. Zool. 2:275 p. 1949. 515 M97A
- New species in Zethopsinus, Proboscites n.g., Articrodes, Microplectus, Biplorellius, Euplectus, Raffrayia, Ectoparyphus, Craspedopterus n.g., Goniomellus n.g., Auchenotropis, Globosulus n.g., Ogmocerus, Ogmoceroles n.g., Leleupites n.g., Bredeola n.g., Baxyris n.g., Reichenbachia, Trissemus, Ghesquièreites n.g., Connodontus, Xenopygia n.g., Conopygidia n.g., Batoxyia, Apteropterodes n.g., Apobatrissus, Trabisostenus n.g., Trabisus, Probatrissus, Trabisotus n.g., Trabisodema n.g., Trabisoides n.g., Pachytrabisus n.g., Exallus, Leleupia n.g., Ruacorites n.g., Clathrinus, Exallomorpha n.g., Catoxyomus n.g., Clathrus, Clathrodes, Syrbatus, Batristellus n.g., Eleodimerus, Hulstaertites n.g., Conogastridius n.g., Conuridius n.g., Parabatrissus n.g., Batristidius n.g., Adiatulus, Exechophyes n.g., Xenadiastus n.g., Arthromelus, Pselaphaulax, Pselaphus, Mentrathus, Filiger, Filigerinus, Filigerodes n.g., Mestogaster, Apharina, Holozodinus n.g., Odontalgus, Ctenistes, Sognorites, Desimiella, Tmesiphorus, Tropeogaster, Centrophthalmus, Camaldus, Camalidites n.g., Centrophthalmosis, Tyrus, Marelius, Philipsia, Pseudoplectus, Neotrabisus, and Acanthicomus n.g.
- 38524 JOHNSON, P. C. Application of risk ratings for western pine beetle [Dendroctonus brevicornis] control in the Inland Empire. Nowest. Sci. 25:32-37. Feb. 1951. 470 N81
- 38525 JONES, J. C. Cytopathology of the hemocytes of Tenebrio molitor Linnaeus (Coleoptera). Iowa State Col. J. Sci. 25:271-272. Jan.1951. 470 Io9
- Abstract of thesis (Ph. D.).
- 38526 KASZAB, Z. A new species of Gonocephalum (Col., Tenebrionidae) from the Philippine Islands. Ann. & Mag. Nat. Hist. (ser.12):4:182-185. Feb.1951. 410 An77
- 38527 KASZAB, Z. Eine neue Zonitis art (Coleopt., Meloidae) aus dem tropischen Afrika. Ann. & Mag. Nat. Hist. (ser.12):4:166-168. Feb.1951. 410 An77
- 38528 KNOWLTON, G. F., LIEBERMAN, F. V., and SNOW, S. J. Alfalfa weevil [Hypera postica] control. Utah. State Agr. Col. Ext. B. 220,2 p. Jan.1951. 275.29 Utl
- 38529 KOENIG, P., and KOELLE, G. Solanaceen als wirtspflanzen des kartoffelkäfers [Leptinotarsa decemlineata]. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:172-177. May/June 1950. 464.8 Z3
- 38530 KRALL, J. L. Host-parasite relationship between Cynaues angustus Lec. and Nosema cyanea sp. nov. Iowa State Col. J. Sci. 25:276-277. Jan.1951. 470 Io9
- Abstract of thesis (Ph. D.).
- 38531 LANTELME, W. Am ende der borkenkäferkalamität. Forstl. Mitt. 3:195-196. (To be cont.) Dec. 20,1950. 99.8 F7725
- Germany.
- 38532 LECHANTEUR, F. Les Laemophloeus de France et de Belgique. Feuille des Nat. (n.s.):5:87-92. Ref. Nov./Dec.1950. 410 F432
- 38533 LEIB, E. Ein schädling wütet im gebälkhausbock im anmarsch? Gesunde Pflanzen 2:113-114. May 1950. 464.8 G33
- Hylotrupes bajulus.
- 38534 LIMA, A. DA C. On some weevils of the subfamily Cryptorhynchinae (Col. Curculionidae). (In Portuguese.) Dusenla 1:377-384. Nov.1950. 410 D94
- Includes new species in Microscapus n.g. and Eusemiop n.g.
- 38535 MAERCKS, H. Die chemische bekämpfung der engerlinge des gartenlaubkäfers [Phyllopertha horticola]. Gesunde Pflanzen 2:111-112. May 1950. 464.8 G33
- 38536 MIDDLEKAUFF, W. W., and SCIARONI, R. H. Broad bean weevil [Bruchus rufimanus]; control of pest may restore the once important fava bean crop. Calif. Agr. [Calif. Sta.] 5(1):7,13. Jan.1951. 100 C12Cag
- 38537 MILLER, L. W. Timber borers. Tasmania. Dept. Agr. Tasmanian J. Agr. 21:318-322. Nov.1,1950. 23 T182T
- Principally beetles.



38538 MILNER, M., LEE, M. R., and KATZ, R. Application of X-ray technique to the detection of internal insect infestation of grain. *J. Econ. Ent.* 43:933-935. Dec. 1950. 421 J822

Experiments with *Sitophilus oryza* in wheat.

38539 MISTRIC, W. J., JR., and RAINWATER, C. F. Laboratory experiments to determine the insecticidal action of several organic insecticides against boll weevil [*Anthonomus grandis*]. *J. Econ. Ent.* 43:892-898. Dec. 1950. 421 J822

Benzene hexachloride, toxaphene, chlordane, aldrin, dieldrin, CS-645A (technical 1,1-bis(p-chlorophenyl)-2-nitropropane), CS-674A (technical 1,1-bis(p-chlorophenyl)-2-nitrobutane, DDT.

38540 PALIJ, V. F. Combined poisons for the control of the gray [sugar] beet weevil [*Tanymecus palliatus*]. (In Russian.) *Sovet. Agron.* 8(11):85-86. Nov.1950. 20 So84

38541 PAPP, C. S. Eine neue *Euscelus*-art aus Columbien (Col. Curculionidae). *Ent. Ber.* 13:203-205. Jan.1,1951. 420 N38B

38542 PARKER, H. L. Notes on *Pycnocephalus argentinus* Brethes, parasitic on *Ceroplastes* sp. in Uruguay. *Ent. Soc. Wash. Proc.* 53:35-41. Feb.1951. 420 W27

38543 PFENNIGER, W. Der eichenkernkäfer [*Platypus cylindrus*] praktische erfahrungen in der bekämpfung. *Holz-Zentbl.* 76:1684. Dec.12,1950. 99.81 H742

38544 PIC, M. Entomological expeditions to Abyssinia, 1926-27 and 1948-49. *Coleoptera, Anthicidae*. *Ann. & Mag. Nat. Hist.* (ser.12)4:125-136. Feb.1951. 410 An77

Includes new species and forms in *Notoxus*, *Anthicus*, *Aulacoderus*, and *Endomia*.

38545 POLIVKA, J. B. Comparative initial effect of insecticides in control of Japanese beetle [*Popillia japonica*] grubs. *J. Econ. Ent.* 43:936. Dec.1950. 421 J822

38546 RAMBIER, A. A propos du *Vesperus xatarti* (Muls.). *Prog. Agr. et Vitic.* 1951:89-93. Feb.18/25, 1951. 14 P94

38547 RICHARDSON, T. C. The story of the boll and the boll weevil [*Anthonomus grandis*]. *Farmer-Stockman* 54(3):8,34. Mar.1951. 6 Ok45

38548 ROCKWOOD, L. P. Entomogenous fungi of the genus *Metarrhizium* on wireworms in the Pacific Northwest. *Ent. Soc. Amer. Ann.* 43:495-498. Dec.1950. 420 En82

38549 SAVAGE, E. F., and COWART, F. F. Report of the 1950 spraying experiments for the control of plum curculio [*Conotrachelus neuphar*] and other insects on peaches. *Ga. Agr. Expt. Sta. Mimeog. Ser.* 33,7 p. Oct. 23,1950. 100 G29M

38550 SCHEDL, K. E. Bestimmungstabellen der paläarktischen borkenkäfer. IV. Die gattung *Ips* De Geer. *Mitt. der Forstl. Bundes-Versanst. Mariabrunn* 46:67-88. First/Second Q.1950. 99.8 M69

38551 SCHEDL, K. E. Neotropical Scolytoidea. II. 107. contribution of the morphology and taxonomy of the Scolytoidea. *Dusenla* 1:145-180. May 1950. 410 D94  
Includes new species in *Hylocurus*, *Micracis*, *Corthyus*, *Microcorthyus*, *Brachyspartus*, *Pterocyclon*, *Tricollus*, *Anchonomerus*, *Cosmocorynus*, *Amphicranus*, and *Xyleborus*.

38552 SCHEIBE, K. Spritzbrühebedarf bei der kartoffelkäferbekämpfung. *Gesunde Pflanzen* 2:105-108. May 1950. 464.8 G33

*Leptinotarsa decemlineata*.

38553 SCHWERTFEGER, F. Neue untersuchungen über die wirkung von hexamitteln zur engerlingsbekämpfung. *Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz* 57:344-350. Sept./Oct.1950. 464.8 Z3

*Melolontha melolontha*.

38554 SCHWERTFEGER, F. Untersuchungen über die wirkung von hexamitteln bei der engerlingsbekämpfung im forstschutz. *Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz* 57:246-272. Ref. July/Aug.1950. 464.8 Z3

*Melolontha melolontha*.

38555 SCOGGIN, J. K. Effects of selected diets and metamorphosis on lipid composition of *Dermestes maculatus* Deg. *Iowa State Col. J. Sci.* 25:353-354. Jan.1951. 470 Io9

Abstract of thesis (Ph. D.).

38556 SEIXAS, C. A. Notes on two coffee pests. (In Portuguese.) *Biológico* 16:216-217. Nov.1950. 442.8 B529

*Stephanoderes hampei* and *Leucoptera coffeella*.

38557 SJÖBERG, O. Drei neue käfer aus der borealen region Schwedens. *Ent. Tidskr.* 71:159-160. (To be cont.) 1950. 421 En891

New species in *Philonthus*, *Oxyopoda*.

38558 STARCHER, G. C. Let's beat the weevil [*Anthonomus grandis*]. *South. Farmer* 112(3):5. Mar.1951. 6 So833

38559 STOBWASSER, H. Heizgasnebel im einsatz gegen maikäfer [*Melolontha melolontha*]. *Gesunde Pflanzen* 2:233-235. Sept.1950. 464.8 G33

38560 THALENHORST, W. Die borkenkäfer-katas-trophe in Deutschland. *Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz* 57:87-93. Feb.1951. 410 An77

38561 UHMANN, E. *Brontispa chalybeipennis* Zacher und *Brontispa palauensis* (Esaki & Chujō); 133. beitrage zum kenntnis der Hispinae (Coleopt. Chrysomelidae). *Ann. & Mag. Nat. Hist.* (ser.12)4:185-188. Feb.1951. 410 An77

38562 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. White-fringed beetle [*Graphognathus leu-coloma*] control. *Washington?* 1951? 1 p. 1.967 A2W584

38563 URBANI, E. Giardina's body in the oocyte of *Dytiscus marginalis* L. (In Italian.) *Riv. di Biol. (n.s.)* 42:413-442. Ref. Oct./Dec.1950. 442.8 R52

English summary.

38564 VERDCOURT, B. D.D.T. impregnated paper. *Ent. Mon. Mag.* 87:53-55. Feb.1951. 421 En86

Tests with *Sitophilus granarius*, *Ptinus tectus*, *Stegobium paniceum*, and *Gibbium psyllodes*.

38565 VOLP, P. The control of cane grubs [*Dermolepida albohirtum*] with benzene hexachloride in the Mulgrave District. *Queensland. Bur. Sugar Expt. Sta. Cane Growers' Q. B.* 14:76-80. Oct.1,1950. 65.9 Q3C

38566 WALKER, R. L., FIFE, L. C., and BONDY, F. F. Dusting-schedule experiments with toxaphene for boll weevil [*Anthonomus grandis*] control. *J. Econ. Ent.* 43:946-947. Dec.1950. 421 J822

38567 WIESMANN, R., and GASSER, R. Fünf jahre erfahrungen in der bekämpfung des maikäfers (*Melolontha melolontha* L.) und beobachtungen zu seiner oekologie. *Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz* 57:17-37. Ref. Jan./Feb.1950. 464.8 Z3

38568 WILLIS, E. R., and ROTH, L. M. The attraction of *Tribolium castaneum* to flour. *J. Econ. Ent.* 43:927-932. Ref. Dec.1950. 421 J822

38569 WILSON, G. Frenchi grub [*Lepidiota frenchi*] control in North Queensland. *Queensland. Bur. Sugar Expt. Sta. Cane Growers' Q. B.* 14:69-72. Oct.1,1950. 65.9 Q3C

38570 WOLFENBARGER, D. O. On the distribution of *Hellipus squamosus* (Lec.) a pest of the avocado. *Fla. Ent.* 33:139-141. Dec.1950. 420 F662

38571 WOOD, L. B. New method beats corn weevil. *Fla. Grower* 59:19-20. Jan.1951. 80 F6622

Stored corn protected with Pyrenone dust treatment.

38572 WU, C. C., and LI, L. Y. Preliminary studies on the control of rice weevils, *Calandra oryzae* [*Sitophilus oryza*]. (In Chinese.) *Fukien Agr. J.* 11:157-160. June 1950. 22.5 F95

English summary.

38573 ZACHER, F. Faulholzinsekten als wirtschaftsschädlinge. *Z. f. Hyg. Zool. u. Schädlingsbekämpf.* 38:337-343. Ref. Oct./Nov.1950. 449.8 Z36

Beetles.

38574 ZALESSKIY, I. M. Flight of some beetles after removal of elytra. (In Russian.) *Priroda* 39(9):68-69. Ref. Sept.1950. 410 P933

## DIPTERA

38575 ABUL-NASR, S. E. Structure and development of the reproductive system of some species of *Nematocera* (order Diptera: suborder *Nematocera*). *Roy. Soc. London. Philos. Trans. Ser. B, Biol. Sci.* 234:339-396. Ref. June 29,1950. 501 L84Pb

38576 ALLEN, R. H., JR. The story of the parasite that troubled Alabama's deer herds: the screwworm [*Callitroga americana*] menace. *Ala. Conserv.* 22(6/7):11,16. Dec.1950/Jan.1951. 279.8 AL1

38577 AMARAL, C. DE F. Sanitary campaign against "Lyperosia [i.e. *Siphona*] irritans L." in the Horta district. (In Portuguese.) *Azores. Comis. Regulad. dos Cereais. B.* 7(13):86-90. First Semes.1951. 15 Az6



- 38578 ANDRETTA, M. A. V. D', and CARRERA, M. On the Brazilian species of Toxophorinae (Diptera, Bombyliidae). (In Portuguese.) *Dusenía* 1:351-374. Nov. 1950. 410 D94  
English summary.  
Includes new species in Toxophora and Eniconeura.
- 38579 ARMITAGE, H. M. Susceptibility of California fruits and vegetables to attack by the Oriental fruit fly (*Dacus dorsalis*). *Calif. Dept. Agr. B.* 40:12-20. Jan./Mar. 1951. 2 C12M
- 38580 AVIDOV, Z., and SVIRSKY, A. The control of the fruit fly in peaches. (In Hebrew.) *Hassadeh* 31:33-34. Oct. 1950. 26 H27
- 38581 AVIDOV, Z. The olive fly [*Dacus oleae*] infestation at Mikveh-Israel in 1947-1949. (In Hebrew.) *Hassadeh* 31:48-50. Oct. 1950. 26 H27
- 38582 BARBOTIN, F. La mouche des fruits (*Ceratitis capitata* Wied.) en Bretagne. *Soc. Sci. de Bretagne. B. (Sci. Math. Phys. et Nat.)* 24:47-49. 1949, pub. 1950. 505 R292
- 38583 BEERMANN, W. Chromomerenkonstanz bei *Chironomus* [i.e. *Tendipes*]. *Naturwissenschaften* 37: 543-544. Dec. 1, 1950. 474 N213
- 38584 BENLLOCH, M. El método español de lucha contra la "mosca de la aceituna" (*Dacus oleae*). *Agricultura* [Madrid] 19:580-583. Dec. 1950. 15 Ag84
- 38585 BERRY, P. A., and PARKER, H. L. Notes on parasites of *Sitona* in Europe, with especial reference to *Campogaster exigua* (Meig.) (Diptera, Larvaevoridae). *Ent. Soc. Wash. Proc.* 52:251-258. Oct. 1950. 420 W27
- 38586 BESSON, J. La mouche des fruits (*Ceratitis capitata* Wied.). *Soc. d'Hort. de la Haute-Garonne. Ann. (ser. 5)* 15:198-203. July/Sept. 1950. 86 So194
- 38587 BORGMEIER, T. A new species of *Megaselia* from Brazil (Diptera: Phoridae). *Wasmann J. Biol.* 8: 359-361. Fall 1950. 442.8 W28
- 38588 BURLA, H. Systematik, verbreitung und oekologie der *Drosophila*-arten der Schweiz. *Rev. Suisse de Zool.* 58:23-175. Ref. Jan. 1951. 410 R324
- 38589 BURTT, E., and JACKSON, C. H. N. Illustrations of tsetse [*Glossina swynnertoni*] larvae. *B. Ent. Res.* 41:523-527. Feb. 1951. 421 B87
- 38590 CASSAMAGNAGHI, A. (HIJO). La haemoprotoeosis: nueva contribución para su conocimiento en el Uruguay. *Uruguay. Dir. de Ganad. B. Mens.* 31:369-378. July/Sept. 1950. 41.9 Ur8  
*Haemoproteus columbae* in pigeons and other birds, transmitted by *Pseudolynchia maura* and other hippoboscids.
- 38591 CHADWICK, L. E. Stroke amplitude as a function of air density in the flight of *Drosophila*. *Biol. B.* 100:15-27. Ref. Feb. 1951. 442.8 B52
- 38592 CORKINS, J. P. Cattle grub [*Hypoderma*] control. *Mont. Stockgrower* 23(2):4. Feb. 15, 1951. 49 M76
- 38593 CORONADO PADILLA, R. Control biológico de la mosca prieta [*Aleurocanthus woglumi*]. *Tierra [México]* 6:101-104. Feb. 1951. 8 T445
- 38594 CORRÊA, O. Cutaneous myiasis in hens. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 14:136. July/Dec. 1950. 9.2 R325  
*Callitroga americana*.
- 38595 COSTANTINO, G. Peut-on combattre la mouche de l'olive [*Dacus oleae*] ? Fruits et Primeurs de l'Afrique du Nord 21(221):9-11. Jan. 1951. 80 F9482
- 38596 DALMAT, H. T. Studies on the flight range of certain Simuliidae, with the use of aniline dye marker. *Ent. Soc. Amer. Ann.* 43:537-545. Dec. 1950. 420 En82
- 38597 DELEON, D. Notes on the distribution of *Vermileo vermileo* (L.) (Diptera, Rhagionidae). *Ent. Soc. Wash. Proc.* 52:272. Oct. 1950. 420 W27
- 38598 DIJKSTRA, J. M. Control of the cattle grub [*Hypoderma bovis*] in the Province Friesland. (In Dutch.) *Tijdschr. v. Diergeneesk.* 76:97-108. Feb. 1, 1951. 41.8 T431
- 38599 DITTRICH, W., and others. Über die auslösung rezessiv-geschlechtsgebundener letalfaktoren bei *Drosophila* durch schnelle elektronen eines 6 mev-beta-trons. *Naturwissenschaften* 37:545-546. Dec. 1, 1950. 474 N213  
G. Höhne, W. Paul, and G. Schubert, joint authors.
- 38600 EDWARDS, E. E., and BEVAN, W. J. On the narcissus flies, *Merodon* [i.e. *Lampetia*] *equestris* (F.) and *Eumerus tuberculatus* (Rond.) and their control. *B. Ent. Res.* 41:593-598. Feb. 1951. 421 B87
- 38601 EICHLER, W. Hygienisch-zoologische notizen VII. Fliegen-"resistenz" gegen DDT. *Z. f. Hyg. Zool. u. Schädlingsbekämpf.* 38:361-369. Ref. Dec. 1950. 449.8 Z36
- 38602 EIDE, P. M., and STITT, L. L. Comparisons of insecticides for cabbage maggot [*Hylemya brassicae*] control. *J. Econ. Ent.* 43:899-905. Dec. 1950. 421 J822
- 38603 ELLIOTT, E. A. Blowfly strike in New South Wales. *Merino Breeders' J.* 13:7-9. Jan. 1951. 45.8 So8
- 38604 FAIRCHILD, G. B., HERTIG, M. Notes on the *Phlebotomus* of Panama (Diptera, Psychodidae). VI. *Phlebotomus shannoni* Dyar and related species. *Ent. Soc. Amer. Ann.* 43:523-533. Dec. 1950. 420 En82
- 38605 FAIRCHILD, G. B. Some nomenclatorial notes on Psychodidae (Diptera). *Brooklyn Ent. Soc. B.* 46:10-18. Ref. Feb. 1951. 420 B79
- 38606 FONSECA, J. P. DA. The wood fly, *Panthophthalmus pictus* (Wied. 1821). (In Portuguese.) *Biológico* 16:191-197. Oct. 1950. 442.8 B529
- 38607 GWATKIN, R., and DZENIS, L. Bacterial examination of blowflies (*Lucilia* sp.) and houseflies (*Musca domestica*) which during their larval stage had fed on chicks infected with *Salmonella pullorum*. (Abs.) *Canad. J. Pub. Health* 42:67. Feb. 1951. 449.8 P964
- 38608 HAARTMAN, L. VON. Mass occurrence of *Thaumatomyia notata* Meig. (In Finnish.) *Soc. pro Fauna et Flora Fenn. Memo.* (1948-49) 25:3-4. 1950. 511 H365Me
- 38609 HANSENS, E. J. House fly control in dairy barns. *J. Econ. Ent.* 43:852-858. Dec. 1950. 421 J822  
Tests with DDT, ditolyl trichlorethane, methoxychlor, lindane, chlordane, and dieldrin.
- 38610 HARDY, G. H. Evolutionary trends in Diptera. *Ent. Mon. Mag.* 87:56-59. Feb. 1951. 421 En86
- 38611 HILLEMANN, H. Neues verfahren bei der kohlfiegenbekämpfung. *Gesunde Pflanzen* 2:78-81. Apr. 1950. 464.8 G33  
*Hylemya brassicae*.
- 38612 HOLST, E. VON, and MITTELSTAEDT, H. Das refferenzprinzip. (Wechselwirkungen zwischen zentralnervensystem und peripherie.). *Naturwissenschaften* 37: 464-476. Ref. Oct. 15, 1950. 474 N213  
*Eristalis* as an example.
- 38613 HOWE, W. L., and SCHROEDER, W. T. New method combines fungicide-herbicide for seed-corn maggot [*Hylemya cilicrura*] control. *Amer. Fert. & Allied Chem.* 114(2):20-22, 42. Feb. 1951. 57.8 Am3
- 38614 HOWE, W. L., and SCHROEDER, W. T. A new method for seed-corn maggot [*Hylemya cilicrura*] control. *Farm Res. [N. Y. State Sta.]* 17:10-11. Jan. 1951. 100 N48A
- 38615 JOHANNSEN, O. A. A new *Pterobosca* from Florida with a key to American species. *Fla. Ent.* 33:141-144. Dec. 1950. 420 F662
- 38616 JOHANNSEN, O. A. Revision of the species of the subgenus *Trichocladus* from the Northeastern States (Chironomidae, Diptera). *Brooklyn Ent. Soc. B.* 46:24-27. Feb. 1951. 420 B79
- 38617 JOINT BLOWFLY CONTROL COMMITTEE. Control of body-strike in sheep. *Victoria. Dept. Agr. J.* 48:546-548. Dec. 1950. 23 V66J  
Committee appointed by the Commonwealth Scientific and Industrial Research Organization, the New South Wales Department of Agriculture and the Queensland Department of Agriculture and Stock.
- 38618 KASTENDECK, M. Zur kohlfiegenbekämpfung. *Anz. f. Schädlingsk.* 24:8-10. Jan. 1951. 421 An9  
*Hylemya brassicae*.
- 38619 KEILBACH, R. Die käsefliege *Piophilus caséi* L. als schädling an gesalzenen häuten. *Z. f. Hyg. Zool. u. Schädlingsbekämpf.* 38:353-357. Dec. 1950. 449.8 Z36
- 38620 KLÉSOV, M. D. In regard to the biology of two nematodes of the genus *Thelazia* Bosc, 1819, eye parasites in cattle. (In Russian.) *Akad. Nauk SSSR. Dok.* 75: 591-594. Dec. 1, 1950. 511 P444A  
Study of transmission of *Thelazia rhodesi* and *Th. gulosa* by *Musca larvipara*.
- 38621 KUBICZEK, H. Ein wenig bekannter bienenschädling [*Phora incrassata*]. *Niederösterreich. Imker* 1: 313-314. Dec. 1950. 424.8 N55



38622 LAAKE, E. W., and others. Relative effectiveness of various insecticides for control of house flies [*Musca domestica*] in dairy barns and horn flies [*Siphona irritans*] on cattle. *J. Econ. Ent.* 43:858-861. Dec.1950. 421 J822

D. E. Howell, P. A. Dahm, P. C. Stone, and R. L. Cuff, joint authors.

Residual sprays of methoxychlor, toxaphene, lindane, and pyrethrum-piperonyl butoxide, (pyrenone) emulsion.

38623 LANE, J. Additional neotropical Ceroplatinae (Diptera, Mycetophilidae). *Dusenla* 1:139-144. May 1950. 410 D94

Includes new species in *Platyura*.

38624 LEVITAN, M. Heterosis in populations with a pericentric inversion. (Abs.) *Va. J. Sci. (n.s.)* 1:352. Sept.1950. 470 V81

In *Drosophila*.

38625 LEWIS, D. J., and KIRK, R. The sandflies (Phlebotominae) of the Anglo-Egyptian Sudan. *B. Ent. Res.* 41:563-575. Feb.1951. 421 B87

*Flebotomus* spp.

38626 LIVINGSTON, A. M. Tricking filter fly control. *Sewage & Indus. Wastes* 23:241-244. Feb.1951. 293.8 S88

*Psychoda*.

38627 LOH, S. Y. Early testing as a means of evaluating  $F_1$  heterosis in inbred lines of *Drosophila melanogaster*. *Iowa State Col. J. Sci.* 25:280-282. Jan. 1951. 470 I09

Abstract of thesis (Ph. D.).

38628 MORRISON, H. E., and others. Space spraying for fly control in dairy barns. *J. Econ. Ent.* 43:846-850. Dec.1950. 421 J822

R. W. Lauderdale, H. H. Crowell, and D. C. Mote, joint authors.

DDT, chlordane, and pyrene.

38629 MOSER, F. Der nebelblaser im dienste der kirschenfliegenbekämpfung. *Schweiz. Z. f. Obst- u. Weinbau* 60:74-76. Feb.24,1951. 80 Sch9

*Rhagoletis cerasi*.

38630 MYBURGH, A. C., and STUBBINGS, W. A. K. Control of fruit-flies [Tephritidae]. *Farming So. Africa* 26(298):7-8,13. Jan.1951. 24 S0842

38631 NÄJERA, L. E. New technique for the breeding and maintenance of *Phlebotomus* colonies. *Doc. Neerland. et Indonesia de Morbis Trop.* 2:312-317. Dec.1950. 448.8 D65

38632 NISHIDA, T., and BESS, H. A. Applied ecology in melon fly [*Dacus cucurbitae*] control. *J. Econ. Ent.* 43:877-883. Dec.1950. 421 J822

38633 NOLTE, H. W., and KLINKOWSKI, M. Die bekämpfung der rübenfliege [*Pegomya hyoscyami*] mit ester-präparaten. *Nachrbl. f. den Deut. Pflanzenschutzdienst (n.s.)* 4:227-230. Dec.1950. 464.9 N11

Parathion, etc.

38634 PARMENTER, L. The Diptera of Bookham Common. *London Nat. (1949)* 29:98-133. 1950. 420 L843

38635 PARMENTER, L. Notes on the genus *Empis* (Dipt., Empididae) in Britain. *Ent. Mon. Mag.* 87:41-44. Ref. Feb.1951. 421 En86

38636 PAVAN, C., and NACRUR, J. Two new species of *Drosophila* (Diptera) of the annulimana group. (In Portuguese.) *Dusenla* 1:263-274. Sept.1950. 410 D94

Descriptions also in English.

38637 PIRES, F. A., SILVA, J. M. DA, and TELES E CUNHA, J. Present position of the tsetse fly in the Sita-tonga area. (In Portuguese.) *Moçambique* 62:77-131. Ref. Apr./June 1950. 110 M71

English summary.

*Glossina*.

38638 RAWLINS, W. A., and NEWHALL, A. G. An improved method of applying insecticides for onion maggot [*Hyalemya antiqua*] control. *J. Econ. Ent.* 43:950-951. Dec.1950. 421 J822

38639 REINHARD, H. J. New American muscoid Diptera. *Brooklyn Ent. Soc. B.* 46:1-9. Feb.1951. 420 B79

New species in *Belvosia*, *Gaediophana*, *Siphosturmia*, and *Guerinia*.

38640 RIEMSCHEIDER, R. No insecticidal activity of 1,1,4,4-tetra-[p-chlorophenyl]-2,2,3,3-tetrachlorobutane. *Amer. Chem. Soc. J.* 73:1374-1375. Mar.1951. 381 Am33J

Tests with *Drosophila melanogaster*.

38641 RODHAIN, J. Documents pour servir à l'histoire de la maladie du sommeil au Congo Belge; la trypanosomiase humaine au Katanga. 4. *Inst. Roy. Colon. Belge. B. des Séances* 21:692-707. 1950. 504 B836

*Glossina* as vector.

38642 ROHWER, S. A. Threat of oriental fruit fly [*Dacus dorsalis*] and citrus blackfly [*Aleurocanthus woglumi*]. *Washington, U. S. Bur. Ent. & Plant Quar.*, 1950. 1 p. 1.9 En86Ro

Talk to the Fruit and Vegetable Conference at annual meeting of the American Farm Bureau Federation, Dallas, Dec. 11, 1950.

38643 ROTH, A. R., and MOTE, D. C. DDT-resistant flies [*Musca domestica*] in Oregon. *J. Econ. Ent.* 43:937. Dec.1950. 421 J822

38644 SABROSKY, C. W. Transfer of genus [*Tylop-terna*] from Otitidae to Chloropidae (Diptera). *Ent. Soc. Wash. Proc.* 53:49. Feb.1951. 420 W27

38645 SABROSKY, C. W. Two new species of *Pseudolastata* (Dipt., Drosophilidae) predacious on the pineapple mealybug [*Pseudococcus brevipes*]. *B. Ent. Res.* 41:623-627. Feb.1951. 421 B87

38646 SACKTOR, B. A comparison of the cytochrome oxidase activity of two strains of house flies. *J. Econ. Ent.* 43:832-838. Ref. Dec.1950. 421 J822

38647 SAÍZ MORENO, L. Las miasis; su interés en higiene pecuaria y en sanidad veterinaria. *Veterinaria* 15:107-124. Feb.1951. 41.8 V6429

Hyperdomosis bovina; Los estros [*Oestrus ovis*] en el ganado lanar; Los *Gastrophilus* de los Equidos; Miasis cutaneas de los Ovidos; La miasis en sanidad veterinaria.

38648 SERGENT, E., and SERGENT, É. Etudes sur le varron du boeuf [*Hypoderma bovis*] en Algérie; essais de traitement et de vaccination. *Inst. Pasteur d'Algérie. Arch.* 28:255-322. Sept.1950. 448.3 In7A

38649 SPIETH, H. T. The breeding site of *Drosophila lacicola* Patterson. *Science* 113:232. Mar.2,1951. 470 Sci2

38650 STEYSKAL, G. C. The genus *Sepedon* Latreille in the Americas (Diptera: Sciomyzidae). *Wasmann J. Biol.* 8:271-297. Ref. Fall 1950. 442.8 W28

38651 STONES, L. C. A comparative method for testing agents used in sheep maggot fly [*Phaenicia sericata*] control. *B. Ent. Res.* 41:503-521. Ref. Feb. 1951. 421 B87

38652 TEOTIA, T. P. S., and DAHM, P. A. The effect of temperature, humidity, and weathering on the residual toxicities to the house fly of five organic insecticides. *J. Econ. Ent.* 43:864-876. Ref. Dec.1950. 421 J822

Aldrin, chlordane, dieldrin, lindane, parathion.

38653 TISON, F. Transport du bacille de Koch par les mouches domestiques. Durée de la contagiosité. *Inst. Pasteur. Ann.* 80:92-94. Jan.1951. 448.3 An75

38654 TRAVIS, B. V., and MORTON, F. A. Insect repellents and nets for use against sand flies [*Culicoides* spp.]. *N. J. Mosquito Extermin. Assoc. Proc.* 37:154-156. 1950. 420 N46

38655 UHLER, L. D. Biology and ecology of the goldenrod gall fly, *Eurosta solidaginis* (Fitch). *N. Y. (Cornell) Agr. Expt. Sta. Mem.* 300,51 p. Ref. Feb.1951. 100 N48C

38656 VOGEL, W. Richtlinien für die kirschenfliegen bekämpfung im jahre 1951. *Schweiz. Z. f. Obst- u. Weinbau* 60:70-74. Feb.24,1951. 80 Sch9

*Rhagoletis cerasi*.

38657 WATERHOUSE, D. F., and PARAMONOV, S. J. The status of the two species of *Lucilia* (Diptera, Calliphoridae) attacking sheep in Australia. *Austral. J. Sci. Res. Ser. B: Biol. Sci.* 3:310-336. Ref. Aug.1950. 442.8 Au72

*L. cuprina* and *L. (i.e. Phaenicia) sericata*.

38658 WIRTH, W. W. The genus *Probezzia* in North America (Diptera, Heleidae). *Ent. Soc. Wash. Proc.* 53: 25-34. Ref. Feb.1951. 420 W27

38659 WOLF, G. Dasselbekämpfungsversuche bei höhenvieh mit kupfersulfat-, eisensulfat- und formalin-lösungen sowie mit DFDT und hexa-präparaten. *Land-wirt. Jahrb. f. Bayern* 27(7/8):91-105. Nov./Dec.1950. 18 L24

Hypoderma control.

#### Culicidae

38660 AMERICAN MOSQUITO CONTROL ASSOCIATION. Bylaws of the American Mosquito Control Association. *Mosquito News* 10:220-227. Dec.1950. 421 M85



- 38661 BEIN, MRS. H. How the women's clubs look at mosquito control. N. J. Mosquito Extermin. Assoc. Proc. 37:44-46. 1950. 420 N46
- 38662 BERÉNI, J. Trente ans de lutte antipaludique à In Salah (Tidikelt). Inst. Pasteur d'Algérie. Arch. 28: 464-468. Dec.1950. 448.3 In7A  
Anopheles multicolor is vector.
- 38663 BISHOPP, F. C., STAGE, H. H., and SOLLERS, H. Review of mosquito work throughout the world in 1949. N. J. Mosquito Extermin. Assoc. Proc. 37:10-37. 1950. 420 N46
- 38664 BRADLEY, G. H., and LYMAN, F. E. Present status of the malaria eradication program. N. J. Mosquito Extermin. Assoc. Proc. 37:156-162. 1950. 420 N46
- 38665 BROWN, A. W. A. Factors in the attractiveness of bodies for mosquitoes. Nature [London] 167:202. Feb.3,1951. 472 N21
- 38666 CLARKE, J. L. In answer to an edict prohibiting the use of DDT for mosquito control in forest preserve areas. N. J. Mosquito Extermin. Assoc. Proc. 37:168-172. 1950. 420 N46
- 38667 CONANT, V. Tide-gates on Bergen County marshes. N. J. Mosquito Extermin. Assoc. Proc. 37:194-198. 1950. 420 N46
- 38668 CORREA, R. R. The anophelines of the region of Sorocaba. (Diptera, Culicidae). (In Portuguese.) Arq. de Hig. e Saúde Púb. 13(35/38):177-189. 1948, pub.1950. 449.8 Ar6  
English summary.  
Anopheles spp., and Chagasia fajardoi.
- 38669 CORRÊA, R. R., LIMA, F. O., and RAMOS, A. S. The anophelines of the subgenus Kerteszia. Their relation to malaria in the State of São Paulo, Brazil. (In Portuguese.) Dusenía 1:203-212. Ref. July 1950. 410 D94  
English summary.
- 38670 DAHL, A. H. The State of California subvention program for vector mosquito control. N. J. Mosquito Extermin. Assoc. Proc. 37:162-167. 1950. 420 N46
- 38671 DORER, R. E., CARTER, R. G., and BICKLEY, W. E. Observations on the pupae of *Mansonia perturbans* (Walk.) in Virginia. N. J. Mosquito Extermin. Assoc. Proc. 37:110-113. 1950. 420 N46
- 38672 EAKINS, W. T. Report on malaria in New Jersey for 1949. N. J. Mosquito Extermin. Assoc. Proc. 37:54-55. 1950. 420 N46
- 38673 FISK, F. W. Studies on proteolytic digestion in adult *Aedes aegypti* mosquitoes. Ent. Soc. Amer. Ann. 43:555-572. Ref. Dec.1950. 420 En82
- 38674 GAUD, J., and LAURENT, J. Les soies doublées chez les larves d'*Anopheles*. Ann. de Parasitol. Humaine et Compar. 25:480-484. 1950. 436.8 An7
- 38675 GEIB, A. F. Chemical control of mosquitoes with hydraulic spray equipment. N. J. Mosquito Extermin. Assoc. Proc. 37:87-89. 1950. 420 N46
- 38676 GERRY, B. I. Salt marsh fly control as an adjunct to mosquito control in Massachusetts. N. J. Mosquito Extermin. Assoc. Proc. 37:189-193. 1950. 420 N46
- 38677 GILLET, J. D., and others. Experiments to test the possibility of transovarial transmission of yellow fever virus in the mosquito *Aedes* (*Stegomyia*) *africanus* Theobald. Ann. Trop. Med. & Parasitol. 44:342-350. Ref. Dec.1950. 448.9 L75A  
R. W. Ross, G. W. A. Dick, A. J. Haddow, and L. E. Hewitt, joint authors.
- 38678 GINSBURG, J. M. Chemicals used for mosquito control in New Jersey in 1949. N. J. Mosquito Extermin. Assoc. Proc. 37:69-77. 1950. 420 N46  
DDT, DDD, oil, pyrethrum preparations, and DDT-pyrethrin combinations.  
Includes discussion.
- 38679 GRAY, H. F. Why not more customer participation in mosquito control? N. J. Mosquito Extermin. Assoc. Proc. 37:46-47. 1950. 420 N46
- 38680 GREENBERG, J. Some nutritional requirements of adult mosquitoes (*Aedes aegypti*) for oviposition. J. Nutr. 43:27-35. Ref. Jan.10,1951. 389.8 J82
- 38681 HADAWAY, A. B., and BARLOW, F. Studies on aqueous suspensions of insecticides. B. Ent. Res. 41:603-622. Ref. Feb.1951. 421 B87  
Tests with *Aedes aegypti*.
- 38682 HIRST, J. M. Meteorological conditions as they may affect aerial applications of insecticides for mosquito control. N. J. Mosquito Extermin. Assoc. Proc. 37:93-96. 1950. 420 N46
- 38683 HU, S. M. K. Mosquito control in Hawaii. N. J. Mosquito Extermin. Assoc. Proc. 37:52-53. 1950. 420 N46
- 38684 HUGONOT, R. Une épidémie de paludisme au Sahara. Inst. Pasteur d'Algérie. Arch. 28:469-508. Ref. Dec.1950. 448.3 In7A  
Anopheles multicolor (= *Pyrethophorus chaudoyei*) is vector.
- 38685 HUYSMANS, G. L. La piscicultura y los mosquitos; el asesoramiento técnico para piscicultores—algunos enemigos. Chacra 21(242):52. Jan.1951. 9 C34 Argentina.
- 38686 JENKINS, D. W., and KNIGHT, K. L. Ecological survey of the mosquitoes of Great Whale River, Quebec (Diptera, Culicidae). Ent. Soc. Wash. Proc. 52: 209-223. Oct.1950. 420 W27
- 38687 KIRCHBERG, E., and PETRI, K. Beiträge zur kenntnis der Culicidae (Dipt.). II. Qualitative und quantitative untersuchungen an fiebermückenbrutplätzen in Gross-Berlin. Z. f. Hyg. Zool. u. Schädlingbekämpf. 38:289-326. Ref. Oct./Nov.1950. 449.8 Z36
- 38688 LESLIE, J. B. A brief history of mosquito control in New Jersey. N. J. Mosquito Extermin. Assoc. Proc. 37:38-43. 1950. 420 N46
- 38689 LUDVIK, G. F. Airplane distribution of larvicides for the control of *Anopheles quadrimaculatus*. N. J. Mosquito Extermin. Assoc. Proc. 37:140-144. 1950. 420 N46
- 38690 MACCREARY, D., and LYNCH, E. E. Influence of a low forest-canopy on the effectiveness of plane applications of DDT against mosquito larvae. N. J. Mosquito Extermin. Assoc. Proc. 37:203-207. 1950. 420 N46
- 38691 MAGY, H. L., DAHL, A. H., and GEIB, A. F. Spray plane applications of larvicides for control of *Aedes* in flooded pastures in California. Mosquito News 10:205-209. Dec.1950. 421 M85
- 38692 MARSH, S. S., JR. Budgets and the devaluated dollar. N. J. Mosquito Extermin. Assoc. Proc. 37:48-52. 1950. 420 N46  
Mosquito control.
- 38693 MARTIN, W. H. Should mosquito commissions engage in other activities? N. J. Mosquito Extermin. Assoc. Proc. 37:7-10. 1950. 420 N46
- 38694 MINTER, P. C. Notes on the Culicidae of central western New South Wales following the 1950 floods. Austral. J. Sci. 13:50. Oct.1950. 475 Au72
- 38695 MORTENSON, E. W. The use of sodium hypochlorite to study *Aedes nigromaculis* (Ludlow) embryos (Diptera: Culicidae). Mosquito News 10:211-212. Dec. 1950. 421 M85
- 38696 MUIRHEAD THOMSON, R. C. Studies on salt-water and fresh-water *Anopheles gambiae* on the East African coast. B. Ent. Res. 41:487-502. Ref. Feb.1951. 421 B87
- 38697 NEW JERSEY MOSQUITO EXTERMINATION ASSOCIATION. Proceedings of the thirty-seventh annual meeting, held at Atlantic City, New Jersey, March 1, 2, and 3, 1950. New Brunswick, 1950. 212 p. 420 N46
- 38698 PASSALACQUA, C. DE S. P. Notes on the epidemiology of malaria in the region of Presidente Epitácio (boundary zone of the states of São Paulo and Mato Grosso). (In Portuguese.) Arq. de Hig. e Saúde Púb. 13(35/38):193-203. 1948, pub.1950. 449.8 Ar6  
English summary.  
Chief vector, *Anopheles darlingi*. Eight other species present.
- 38699 PRATT, H. D. Audio-visual aids for mosquito identification produced by the Communicable Disease Center. N. J. Mosquito Extermin. Assoc. Proc. 37:63-66. 1950. 420 N46
- 38700 PROVOST, M. W. Organization for mosquito control in Florida. N. J. Mosquito Extermin. Assoc. Proc. 37:103-105. 1950. 420 N46
- 38701 ROSS, R. W., and GILLET, J. D. The cyclical transmission of yellow fever virus through the grivet monkey, *Cercopithecus aethiops centralis* Neumann, and the mosquito *Aedes* (*Stegomyia*) *africanus* Theobald. Ann. Trop. Med. & Parasitol. 44:351-356. Ref. Dec.1950. 448.9 L75A
- 38702 ROSS, R. W. The survival of yellow fever virus in refrigerated mosquitoes [*Aedes aegypti*]. Ann. Trop. Med. & Parasitol. 44:299-308. Dec.1950. 448.9 L75A
- 38703 RUTH, P. W. History of the Norfolk City Mosquito Control Commission, Norfolk, Virginia. N. J. Mosquito Extermin. Assoc. Proc. 37:59-60. 1950. 420 N46



- 38704 SBARRA, N. H. El "mosquito tigre" [*Aedes aegypti*], trasmisor de la fiebre amarilla. Chacra 21(243):78-79. Feb. 1951. 9 C34
- 38705 SCHWETZ, J. On mosquitoes and malaria in the Aloro 'Gambolola' Lango District (Uganda). *J. Trop. Med. & Hyg.* 54:36-38. Feb. 1951. 448.8 J827
- 38706 SCOTT, J. W. Report on mosquitoes in Vermont for 1949. N. J. Mosquito Extermin. Assoc. Proc. 37:187-189. 1950. 420 N46
- 38707 STAGE, H. H. The aerial application of insecticides for mosquito control. N. J. Mosquito Extermin. Assoc. Proc. 37:77-87. Ref. 1950. 420 N46  
Includes discussion.
- 38708 STAGE, H. H., and SOLLERS, H. References to literature of interest to mosquito control workers and malariologists. *Mosquito News* 10:231-239. Dec. 1950. 421 M85
- 38709 STALLMAN, M. M. Public relations. N. J. Mosquito Extermin. Assoc. Proc. 37:55-59. 1950. 420 N46
- 38710 STEARNS, L. A. Symposium on the chemical control of mosquitoes; introductory statement. N. J. Mosquito Extermin. Assoc. Proc. 37:67-68. 1950. 420 N46
- 38711 TEMPLETON, R. P. The mosquitoes of Florida. N. J. Mosquito Extermin. Assoc. Proc. 37:101-103. 1950. 420 N46
- 38712 THOM, W. A season's use of a scapel plow by the Middlesex County Mosquito Extermination Commission. N. J. Mosquito Extermin. Assoc. Proc. 37:209-212. 1950. 420 N46
- 38713 THURMAN, D. C., JR., and MORTENSON, E. W. A method of obtaining an index to *Aedes* densities in irrigated pastures. *Mosquito News* 10:199-201. Dec. 1950. 421 M85
- 38714 THURMAN, E. B., and WINKLER, E. C. A new species of mosquito in California, *Aedes* (*Ochlerotatus*) *bicristatus* (Diptera, Culicidae). *Ent. Soc. Wash. Proc.* 52:237-250. Oct. 1950. 420 W27
- 38715 TRAVIS, B. V., and MCDUFFIE, W. C. Chemicals for use in mosquito control. N. J. Mosquito Extermin. Assoc. Proc. 37:96-101. Ref. 1950. 420 N46
- 38716 TWINN, C. R., BROWN, A. W. A., and HURTIG, H. Area control of mosquitoes by aircraft in sub-arctic Canada. N. J. Mosquito Extermin. Assoc. Proc. 37:113-140. 1950. 420 N46
- 38717 VANNOTE, R. L. Methods and equipment for adult mosquito control. N. J. Mosquito Extermin. Assoc. Proc. 37:90-93. 1950. 420 N46
- 38718 WASHBURN, G. E. Cooperative studies of *Aedes* ecology. N. J. Mosquito Extermin. Assoc. Proc. 37:106-110. 1950. 420 N46
- 38719 WILSON, R. J. Pre-season insecticidal applications for mosquito control in Morris County. N. J. Mosquito Extermin. Assoc. Proc. 37:208-209. 1950. 420 N46
- 38720 YATES, W. W. Comparative resistance of different instars of *Aedes* mosquitoes to chlorinated hydrocarbon insecticides. *J. Econ. Ent.* 43:944-945. Dec. 1950. 421 J822
- 38721 YATES, W. W. Effect of temperature on the insecticidal action of mosquito larvicides. *Mosquito News* 10:202-204. Dec. 1950. 421 M85
- 38722 ZEMLANSKY, J. Airplane spraying for mosquito control in four New Jersey seashore counties. N. J. Mosquito Extermin. Assoc. Proc. 37:145-154. 1950. 420 N46
- 38727 BREAKEY, E. P., and CAMPBELL, L. Suppression of strawberry yellows by controlling the aphid vector *Capitophorus fragaeifolii* (Ckll.). *Plant Dis. Rptr.* 35:63-69. Feb. 15, 1951. 1.9 P69P
- 38728 BRONSON, T. E., and DUDLEY, J. E., JR. Pea aphid [*Macrosiphum pisi*] control with sprays applied by a mist blower. *J. Econ. Ent.* 43:954-955. Dec. 1950. 421 J822
- 38729 CALDWELL, J. S. New Cixiidae from southern North America with notes on others (Homoptera: Fulgoroidea). *Ohio J. Sci.* 51:34-36. Jan. 1951. 410 Oh3  
Includes new species in *Haplaxius* and *Ollarius*.
- 38730 CAMERON, A. E. Citrus white fly [*Dialeurodes citri*]; bug found in same environment as yellow scale [*Aonidiella citrina*] responsible for sooty mould development. *Citrus News* 26:182. Dec. 1950. 80 C494
- 38731 CARVALHO, J. C. M. Neotropical Miridae, XL. A new genus [*Chinamiris*] and species [in *Eccritotarsus*] of Bryocorinae in the collection of the British Museum of Natural History (Hemiptera). *Ann. & Mag. Nat. Hist.* (ser. 12)4:168-173. Feb. 1951. 410 An77
- 38732 CHAMBERLIN, T. R., and MEDLER, J. T. Further tests of insecticides to control meadow spittlebugs [*Philaenus leucophthalmus*] on alfalfa. *J. Econ. Ent.* 43:888-891. Dec. 1950. 421 J822
- 38733 CHINA, W. E. *Placotettix taeniatifrons* Kirschbaum (Hem., Cicadellidae, Deltocephalinae) new to Britain. *Ent. Mon. Mag.* 87:60-62. Feb. 1951. 421 En86
- 38734 COOPER, J. F., PLUMMER, C. C., and SHAW, J. G. The citrus blackfly [*Aleurocanthus woglumi*] situation in Mexico. *J. Econ. Ent.* 43:767-773. Ref. Dec. 1950. 421 J822
- 38735 DAHMS, R. G., and FENTON, F. A. Recognition and control of greenbugs [*Toxoptera graminum*] and other early-appearing pests of wheat. *Okla. Agr. Expt. Sta. Mimeog. C. M.*-209, 3 p. Jan. 1951. 100 Ok4M  
Also in *Grain Prod. News* 3(8):23. Feb. 1951. 286.81 G764
- 38736 DEBACH, P., and others. Periodic colonization of *Aphytis* for control of the California red scale [*Aonidiella aurantii*]. Preliminary tests, 1949. *J. Econ. Ent.* 43:783-802. Dec. 1950. 421 J822  
E. J. Dietrick, C. A. Fleschner, and T. W. Fisher, joint authors.
- Aphytis chrysomphali* and an unidentified species called here *Aphytis* "A."
- 38737 DELONG, D. M., and RUPPEL, R. F. A new species of bizarre Mexican leafhopper belonging to the Cicadellinae (Homoptera-Cicadellidae). *Ohio J. Sci.* 51:36. Jan. 1951. 410 Oh3  
In *Parallaxis*.
- 38738 DOUTT, R. L. The parasite complex of *Furcaspis oceanica* Lindinger. *Ent. Soc. Amer. Ann.* 43:501-507. Dec. 1950. 420 En82  
Includes new species in *Anabrolepis* and *Ablerus*.
- 38739 DRAKE, C. J., and SALMON, J. T. A new genus [*Oiophysa*] and two new species of Peloridiidae (Homoptera) from New Zealand. *Victoria U. Col. Zool. P.* 6, 7 p. May 31, 1950. 410.9 V66
- 38740 ENGEL. Wachsende San-José-schildlaus-gefahr! *Bauern Ztg.* 3:639. Dec. 22, 1950. 18 B324  
*Aspidiotus perniciosus* in Germany.
- 38741 FEDOTOV, D. M., and BOCHAROVA, O. M. Effect of DDT preparation on *Eurygaster integriceps*. (In Russian.) *Akad. Nauk SSSR. Dok.* 75:587-590. Ref. Dec. 1, 1950. 511 P444A
- 38742 FENNAH, R. G. Further notes on Neotropical Cercopoidea. *Ann. & Mag. Nat. Hist.* (ser. 12)4:136-149. Feb. 1951. 410 An77  
Includes new species and forms in *Aeneolamia*, *Tomaspinella*, *Hyboscarta*; also *Marcion* n.g.
- 38743 FERRIS, G. F. Atlas of the scale insects of North America. Series V. The Pseudococcidae (I). Stanford, Stanford U. Press, 1950. 277 p. 431.6 F41A  
Includes new species in *Anisococcus* n.g., *Distichilococcus* n.g., *Dysmicoccus* n.g., *Phenacoccus*, *Pseudococcus*, *Puto*, *Spilococcus* n.g., *Stemmatomerinx* n.g., and *Trionymus*; also new genera *Chnaurococcus*, *Crisicoccus*, *Eurycoccus*, *Oracella*, *Planococcus*, *Saccharicoccus*, and *Tridiscus*.
- 38744 FORATTINI, O. P., and SERRA, O. P. Contribution to a knowledge of the morphology and biology of *Pyrrhosphodrus militaris* Stål 1866. (Hemiptera, Harpactorinae). (In Portuguese.) *Dusenía* 1:229-236. July 1950. 410 D94  
English summary.

## HEMIPTERA (HETEROPTERA AND HOMOPTERA)

- 38723 AHMED, D. D., and DAVIDSON, R. H. Life history of the meadow spittlebug [*Philaenus leucophthalmus*] in Ohio. *J. Econ. Ent.* 43:905-908. Dec. 1950. 421 J822
- 38724 ANTHON, E. W. Spray program 1951, Washington; mites, aphids and scale [*Aspidiotus perniciosus*] on stone fruits. *West. Fruit Grower* 5(2):21-22. Feb. 1951. 95.8 G762
- 38725 BOBB, M. L. The life history of *Gerris cancellatus* Say (Hemiptera: Gerridae). (Abs.) *Va. J. Sci.* (n.s.)1:349. Sept. 1950. 470 V81
- 38726 BRAKMAN, P. J. *Oncotylus viridiflavus* Goetze (Hem.-Het.), a striking new mirid for the Netherlands fauna. (In Dutch.) *Ent. Ber.* 13:199-201. Jan. 1, 1951. 420 N38B



- 38745 FREITAS, J. L. P. DE. Actual data on the distribution of Triatomidae and Chagas sickness in the Delegacia de Saude de Sorocaba. (In Portuguese.) Arq. de Hig. e Saude Pùb. 13(35/38):93-96. Ref. 1948, pub. 1950 449.8 Ar6
- Triatoma infestans and Panstrongylus megistus.
- 38746 FULTON, R. A., SMITH, F. F., and KONECKY, M. S. Comparative toxicity of vapors of four organic phosphates to chrysanthemum aphid [Macrosiphoniella sanborni] and two-spotted spider mite [Tetranychus bimaculatus]. J. Econ. Ent. 43:940-941. Dec. 1950. 421 7822
- 38747 GODING, F. W. The Old World Membracidae. N. Y. Ent. Soc. J. 58:251-268. (Concl.), Ref. Dec. 1950. 420 N48J
- 38748 GRIOT, M. Bases para el estudio del problema del pulgón verde [Toxoptera graminum]. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:62-64. 1950. 59.9 P41
- Includes discussion.
- 38749 GUENNELON-AUBANEL, G. Remarques sur l'origine des gaires de nutrition d'un Hémiptère phytophage, Pseudococcus citri Risso. Acad. des Sci. Compt. Rend. 232:559-560. Feb. 5, 1951. 505 P21
- 38750 GUILLEMAIN, R., and ALIBERT, H. Les fourmis [Tapinoma sp.] nuisibles aux vergers d'Afrique du Nord. Fruits et Primeurs de l'Afrique du Nord 21 (221):12-14. Jan. 1951. 80 F9482
- 38751 HALL, D. W. Observations on the distribution, habits and life history of the bug Piezostethus galactinus (Fieb.) (Hem., Anthracoridae). Ent. Mon. Mag. 87:45-52. Feb. 1951. 421 En86
- 38752 HEINZE, K. Über blattlausschäden an kartoffeln. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:106-108. Mar./Apr. 1950. 464.8 Z3
- Aphis fabae and Aulacorthum pseudosolani.
- 38753 HERRING, J. L. The aquatic and semiaquatic Hemiptera of northern Florida. 2. Veliidae and Mesoveliidae. Fla. Ent. 33:145-150. Dec. 1950. 420 F662
- 38754 HILL, R. E., and STAPLES, R. Greenbugs [Toxoptera graminum] and their control in Nebraska. Nebr. Agr. Col. Ext. E. C. 1560, 2 p. 1951. 275.29 N272Ex
- 38755 HOLGERSEN, H. The Norwegian species of Euscelis and related genera (Homoptera: Cicadina) Nytt Mag. f. Natvidensk. 87:77-94. Ref. 1949. 410 N99
- 38756 HUSSEY, R. F. Leptocorixa filiformis in the United States (Hemiptera: Coreidae). Fla. Ent. 33:150-154. Ref. Dec. 1950. 420 F662
- 38757 HUSSEY, R. F., and HERRING, J. L. Rediscovery of a belostomatid named by Thomas Say (Hemiptera). Fla. Ent. 33:154-156. Dec. 1950. 420 F662
- Abedus cantralli Hussey & Herring, 1950, identical with Belostoma fluminea var. immaculata Say, 1832.
- 38758 ISLAS S., F. Observaciones biológicas sobre la mosca prieta (Aleuracanthus woglumi Ashby) Homoptera-Aleyrodidae. Mex. Inst. de Biol. Fol. de Divulg. Cient. 1950, 34 p. July 28, 1950. 442.9 M57F
- 38759 KLOFT, W. Insekten steuern das wachsen von pflanzen. Umschau 51:40-42. Jan. 15, 1951. 474 Um7
- Scale insects and gall formation.
- 38760 KNOWLTON, G. F. The boxelder bug [Leptocoris trivittatus]. Utah. State Agr. Col. Ext. B. 218, 2 p. Jan. 1951. 275.29 Ut1
- 38761 KNOWLTON, G. F. A flight of water boatmen [Corixidae]. Brooklyn Ent. Soc. B. 46:22-23. Feb. 1951. 420 B79
- Corisella decolor, Sigara nevadensis, Trichocorixa verticollis interiores, and Hesperocorixa laevigata.
- 38762 KNOWLTON, G. F., LIEBERMAN, F. V., and SORENSON, C. J. Lygus bug control for alfalfa seed production. Utah. State Agr. Col. Ext. B. 221, 2 p. Jan. 1951. 275.29 Ut1
- 38763 KNULL, D. J. Additions to list of Ohio leafhoppers (Homoptera: Cicadellidae). Ohio J. Sci. 51:16. Jan. 1951. 410 Oh3
- 38764 LA PORTE, L. Note sur un parasite endophage de Parlatoria zizyphi en Algérie. Algeria. Inst. Agr. Ann. 5:5-7. Jan. 1950. 108 AL35
- 38765 LA PORTE, L. Les parasites du pou de San José [Aspidiotus perniciosus] en Algérie. Algeria. Inst. Agr. Ann. 5:9-12. Ref. Jan. 1950. 108 AL35
- 38766 MALTAIS, J. B. The nitrogen content of different varieties of peas as a factor affecting infestations by Macrosiphum pisi (Kltb.) (Homoptera: Aphididae). A preliminary report. Canad. Ent. 83:29-33. Ref. Feb. 1951. 421 C16
- 38767 MARCUS, H. Observaciones sobre Membracidae. Folia U. 4(4):63-77. Ref. Oct. 1950. 516 F71
- English summary.
- 38768 MILLER, N. C. E. A new species of Reduvius (Hemiptera: Reduviidae). Entomologist 84:7-8. Jan. 1951. 421 En8
- 38769 MITROFANOV, P. I. New method for the control of the grape mealybug [Pseudococcus citri]. (In Russian.) Sad i Ogorod 1950(12):42-43. Dec. 1950. 80 Sa13
- Spraying and dusting of grapevines with thiophos and pyrophos.
- 38770 MÜLLER, H. L., and NIEL, L. N. Determinación del grado de resistencia en centeno al ataque del pulgón verde [Toxoptera graminum] de los cereales. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:76-77. 1950. 59.9 P41
- 38771 NISWANDER, R. E. Life history and respiration of the milkweed bug Oncopeltus fasciatus (Dallas). Ohio J. Sci. 51:27-33. Jan. 1951. 410 Oh3
- 38772 PATERILO, G. A. New method for the control of woolly apple aphid [Eriosoma lanigerum]. (In Russian.) Moldavskaja Plodo-Vinograd. Opytn. Sta. Sporn. Rabot 1: 161-165. 1949, pub. 1950. 93.6 M73
- Biological control with Aphelinus mali.
- 38773 PERSI, R. A dangerous insect: Aspidiotus perniciosus. (In Italian.) Campagna 49:231. Dec. 15, 1950. 16 C152
- 38774 PHILIPP, W. Die San-José-schildlaus-verseuchung der nordbadischen baumschulen. Gesunde Pflanzen 2:151-153. June 1950. 464.8 G33
- Aspidiotus perniciosus.
- 38775 PHILIPP, W. Welchen schaden richtet die San-José-schildlaus [Aspidiotus perniciosus] an? Gesunde Pflanzen 2:115. May 1950. 464.8 G33
- 38776 POTTER, T. E. K. The sugar cane froghopper [Tomaspis saccharina]. Plant Protect. Overseas Rev. 2: 4-9. Jan. 1951. 464.8 P69
- 38777 QUATE, G. S. Thailand's lac industry. Foreign Agr. 15:60-63. Mar. 1951. 1.9 Ec7For
- Habits of Lacifer lacca and lac production.
- 38778 RIVEROS, J. E. Los estragos de la filoxera. Vinos, Viñas y Frutas 45:326-328. Jan. 1951. 9 Ag89
- On grapes in Argentina.
- 38779 ROBERTS, R. Scale control; improved methods fully effective only under favorable wind, temperature and humidity conditions. Citrus News 26:180, 182. Dec. 1950. 80 C494
- 38780 ROBERTS, R. S., and KNOWLTON, G. F. Nabis [alternatus] "bites" man. Brooklyn Ent. Soc. B. 46:23. Feb. 1951. 420 B79
- 38781 RÖNNEBECK, W. Über die frühjahrsentwicklung der grünen pflirschblattlaus (Myzodes [i.e. Myzus] persicae Sulzer) am primärwirt im Hinblick auf ihre bedeutung als virusüberträger im kartoffelfeld. Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:351-357. Sept./Oct. 1950. 464.8 Z3
- 38782 ROSENZVAIG, J., and NIEL, L. N. Resultado de cinco años de ensayos para determinar resistencia en variedades de trigo al ataque del pulgón verde [Toxoptera graminum] de los cereales. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:72-75. 1950. 59.9 P41
- Includes discussion.
- 38783 RUI, D. Maximum directions for the winter spraying of Venetian fruit trees. (In Italian.) Informatore Agr. 7:5-6. Jan. 1, 1951. 281.8 In32
- For control of Aspidiotus perniciosus.
- 38784 SAILER, R. I. The status of Thyanta accera McAtee (Hemiptera, Pentatomidae). Ent. Soc. Wash. Proc. 53:42. Feb. 1951. 420 W27
- Color phase of T. custator.
- 38785 SCHENK, P. J. Winter spraying in the villa garden. 3. Buxus and Azalea mollis. (In Dutch.) Vakbl. v. de Bloemisterij 6:12. Jan. 12, 1951. 80 V22
- Control of Psylla buxi and Phylloxera azaleae.
- 38786 SCHREIER, O. Die kellerlaus [Rhopalosiphoninus latysiphon]—eine unerfreuliche neuerwerbung. Pflanzenarzt 4:5-6. Jan. 1, 1951. 464.9 P482
- 38787 SINGH, B. M. Gundhi or rice bug of paddy and its control. Agr. & Anim. Husb. 1(3):58-60. Apr./Aug. 1950. 22 Ag86
- Leptocorisa acuta. Also some notes on the rice grasshopper, Hieroglyphus banian.



38788 SLATER, J. A. An investigation of the female genitalia as taxonomic characters in the Miridae (Hemiptera). Iowa State Col. J. Sci. 25:355. Jan. 1951. 470 lo9 Abstract of thesis (Ph. D.).

38789 SMITH, G. Greenbug [Toxoptera graminum] research begins for Texas Panhandle-South Plains. Grain Prod. News 3(7):30. Jan. 1951. 286.81 G764

38790 SMITH, M. E. A European neidid in Massachusetts: *Berytinus minor*. Brooklyn Ent. Soc. B. 46:28. Feb. 1951. 420 B79

38791 TAKAHASHI, R. List of the Aphididae of the Malay Peninsula, with descriptions of new species (Homoptera). Ent. Soc. Amer. Ann. 43:587-607. Dec. 1950. 420 En82

New species and forms in Greenidea, Eutrichosiphum, Greenideoida, Sitobion, Dactynotus, Aphis, Oregma, Trichoregma, Thoracaphis, and Astegopteryx.

38792 TAPIA, E. A. Pulgones que atacan los cultivos de cereales en la Argentina. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:56-61. 1950. 59.9 P41

38793 TEITELBAUM, S. S., and GOULET, P. A color mutant of the leafhopper *Agalliopsis novella* (Say) (Homoptera, Cicadellidae). Ent. Soc. Wash. Proc. 52:269-271. Oct. 1950. 420 W27

38794 VILLIERS, A. Contribution à l'étude du peuplement de la Mauritanie; notes sur divers Hémiptères Hétéroptères. Inst. Franç. d'Afrique Noire. B. 13:129-138. Jan. 1951. 515 D14

Includes new species in Holotrichus and Stenocephalus.

38795 WEAVER, C. R. Spittlebug [Cercopidae] control with low volume sprayers. Ohio Farm & Home Res. [Ohio Sta.] 35:77-78. Nov./Dec. 1950. 100 Oh3S

38796 WILLAUME, F. Emploi des "huiles jaunes" et des "huiles blanches" contre les cochenilles des arbres fruitiers. (Extracts.) Phytoma 3(21):14-17. Dec. 1950. 464.8 P563

38797 WOOD, C. A. The strawberry aphid, *Pentatrichopus fragariae* (Theob.), in North Wales, with special reference to the maintenance of healthy strawberry stocks in non-fruit-growing areas. J. Hort. Sci. 26:22-34. Ref. Dec. 1950. 80 J825

38798 WOODWARD, T. E. A case of persistent attacks on a human by *Lycotocoris campestris* (F.) (Hem., Anthocoridae). Ent. Mon. Mag. 87:44. Feb. 1951. 421 En86

38799 WRIGHT, W. H. Red scale eradication, Hemet and Coachella Valleys. Calif. Dept. Agr. B. 40:30-31. Jan./Mar. 1951. 2 C12M  
Aonidiella aurantii.

## HYMENOPTERA

38800 AUTUORI, M., and PINHEIRO, J. V. Control the sauva ant [Atta spp.] with methyl bromide. (In Portuguese.) Biológico 16:147-159. Aug. 1950. 442.8 B529

38801 AUTUORI, M. "M.M.33," a new formicide based on methyl bromide, in the control of the sauva ant (Atta spp.). (In Portuguese.) Biológico 16:175-180. Sept. 1950. 442.8 B529

38802 BARTLETT, B. R., and FISHER, T. W. Laboratory propagation of *Aphytis chrysomphali* for release to control California red scale [Aonidiella aurantii]. J. Econ. Ent. 43:802-806. Dec. 1950. 421 J822

38803 BRAUNS, A. Holzwespenbefall. Gesunde Pflanzen 2:257-259. Oct. 1950. 464.8 G33  
*Strex gigas*.

38804 CAMERON, E. On the identity of an ichneumonid parasite of *Hepialus lepulinus* (L.). B. Ent. Res. 41:637. Feb. 1951. 421 B87  
*Ichneumon suspiciosus*.

38805 COLE, A. C. Nesting activities of *Trachymyrmex* Forel (Hymenoptera: Formicidae) in east Tennessee. Ent. Soc. Amer. Ann. 43:499-500. Dec. 1950. 420 En82  
*T. septentrionalis* seminale.

38806 FENNAH, R. G. Parasol ants, their life history and methods for their control. Agr. Soc. Trinidad & Tobago. Proc. 50:312-326. Ref. Sept. 1950. 8 T73  
*Atta* and *Acromyrmex*.

38807 GUILLEMAIN, R., and ALIBERT, H. Nouveau procédé de lutte contre les fourmis arboricoles. Acad. d'Agr. de France. Compt. Rend. 36:580-581. Oct. 25/Nov. 8, 1950. 14 P215Bc  
Chiefly *Tapinoma*.

38808 HASKINS, C. P., and HASKINS, E. F. Notes on the biology and social behavior of the archaic ponerine ants of the genera *Myrmecia* and *Promyrmecia*. Ent. Soc. Amer. Ann. 43:461-491. Ref. Dec. 1950. 420 En82

38809 HURD, P. D., JR., and LINSLEY, E. G. Some insects associated with nests of *Dianthidium dubium* dictum Timberlake, with a list of the recorded parasites andinquillines of *Dianthidium* in North America. N. Y. Ent. Soc. J. 58:247-250. Ref. Dec. 1950. 420 N48J

38810 KENNEDY, C. H. Myrmecological technique. IV. Collecting ants by rearing pupae. Ohio J. Sci. 51:17-20. Jan. 1951. 410 Oh3

38811 KERR, W. E., and KRAUSE, W. Contribution to a knowledge of the bionomics of the Meliponini. Fertilization of the queen in *Melipona quadrifasciata* Lep. (Hymenopt. - Apoidea). (In Portuguese.) Dusenía 1:275-282. Sept. 1950. 410 D94  
English summary.

38812 LØKEN, A. Bumble bees in relation to *Acontium septentrionale* in central Norway (Øyer). Nytt Mag. f. Natvidensk. 87:1-60. Ref. 1949. 410 N99

38813 MARCUS, H. Como evita el incesto la *Solenopsis saevissima* var. *Folia* U. 4(4):78-80. Oct. 1950. 516 F71

38814 MINNEN, G. VAN. Paper-hanger bees [*Megachile* spp.]. (In Dutch.) Ent. Ber. 13:202. Jan. 1, 1951. 420 N38B

38815 MOURE, J. S. Contribution to a knowledge of the Brazilian species of *Hypotrigona* Cockerell (Hymen. - Apoidea). (In Portuguese.) Dusenía 1:241-260. July 1950. 410 D94

Includes the new subgenera *Leurotrigona*, *Celetrigona*, *Dolichotrigona*, and *Trigonisca*.

38816 MOURE, J. S. Contribution towards a knowledge of the genus *Eulaema* Lepeletier (Hymen. - Apoidea). (In Portuguese.) Dusenía 1:181-200. May 1950. 410 D94  
Includes *Eulaema* (*Apeulaema*) n. sgen.

38817 MOURE, J. S. *Euharbstiinae*, new sub-family of *Andrenidae*. (Hymenopt. - Apoidea). (In Portuguese.) Dusenía 1:303-306. Sept. 1950. 410 D94

38818 MOURE, J. S. New Halictidae from South America (Hymenopt. - Apoidea). (In Portuguese.) Dusenía 1:307-323. Sept. 1950. 410 D94

New species in *Dialictus*, *Augochlorella*, *Paroxystoglossa*, *Ceratalictus*, *Augochloropsis*, *Caenohalictus*, and *Rhinocorynura*.

38819 MOURE, J. S. Notes on some Meliponinae from French Guiana. (Hymen. - Apoidea). (In Portuguese.) Dusenía 1:297-303. Sept. 1950. 410 D94

38820 MOURE, J. S. Some new neotropical groups of bees. (Hymenopt. - Apoidea). (In Portuguese.) Dusenía 1:385-394. Nov. 1950. 410 D94

Includes new subgenera *Wagenknechtia* and *Penthemisia* in *Centris*, and *Diadasina* n. g.

38821 PASTRANA, J. A., and GAHAN, H. Crfa en masa de *Macrocentrus ancylovorus* Roh. parasito natural del "gusano del duraznero [*Grapholitha molesta*]" en la Republica Argentina. Argentina. Inst. de Sanid. Veg. [P.] Ser. B 6(19), 22 p. Ref. 1950. 464.9 Ar323P  
Reared in *Gnorimoschisma operculella*.

38822 RON PEDRIQUE, A. Cultivos dañados por los bachacos. Agro [El Valle] 5(14):14-19. Sept./Oct. 1950. 9.95 Ag83

*Atta* and *Acromyrmex*; contains a list of plants attacked by *Atta insularis*.

38823 SCHNEIRLA, T. C., and BROWN, R. Z. Army-ant [Eciton] life and behavior under dry-season conditions. 4. Further investigation on cyclic processes in behavioral and reproductive functions. Amer. Mus. Nat. Hist. B. 95: 263-353. Ref. 1950. 500 N483B

38824 SORENSON, C. J., and KNOWLTON, G. F. Alfalfa and clover seed chalcid [*Bruchophagus gibbus*]. Utah. State Agr. Col. Ext. B. 219, 2 p. Jan. 1951. 275.29 Utl

38825 STUMPER, R. Les associations complexes des fourmis; commensalisme, symbiose et parasitisme. B. Biol. de la France et de la Belg. 84:376-399. Ref. Fourth Q. 1950. 473 B87

38826 WALRECHT, B. J. J. R. The building instinct of the social wasp. (In Dutch.) Levende Nat. 53:207-211. Nov. 1950. 410 L57

Chiefly on *Vespa vulgaris*.

38827 WILLIAMS, F. X. A new species of *Diploplectron* from California, with a description of the female of *Diploplectron reticulatus* Williams (Hymenoptera: Sphecidae, Astatinae). Wasmann J. Biol. 8:363-366. Fall 1950. 442.8 W28

See also Apiculture and *Apis mellifera*.



## LEPIDOPTERA

- 38828 AGRELL, I. Pupal diapause caused by vitamin deficiency. *Nature* [London] 167:283-284. Feb. 17, 1951. 472 N21  
Endromis versicolora.
- 38829 ANDERSON, E. C. Mating habits of sod webworms [*Crambus dorsipunctellus*]. *J. Econ. Ent.* 43:956. Dec. 1950. 421 J822
- 38830 ARGHIRIDIS, M. Destruction du ver de la feuille; essais de destruction du ver de la feuille du cotonnier "Prodenia litura" au moyen du D.D.T. mélangé au gamexane sur la propriété de la Société Civile du Domaine de Negullieh Sise a Hoch Issa. *Égypte Agr.* 48:137-141. Nov./Dec. 1950. 24 Un32
- 38831 BALEVSKI, A. Nouvelles possibilités dans la lutte chimique contre la pyrale (*Sparganothis pilleriana*, Schiff.). (In Bulgarian.) *Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis.* 18(1):69-88. 1950. 106.3 R32  
French summary.
- 38832 BAYARD, A. Les caractéristiques morphologiques des *Procris* français. *Rev. Franç. de Lépidoptérologie* 12:289-318. Sept./Oct. 1950. 421 P192
- 38833 BEAUCHAMP, C. E. El control del borer [*Diatraea saccharalis*] por medio de la mosca cubana *Lixophaga diatraeae*. *Inst. Cubano de Suelos y Abonos. Inform. Téc. B.* 8(3):1151-1161. Dec. 1950. 65.9 H29
- 38834 BEAUFOY, S., and BEAUFOY, E. M. The large copper (*Lycaena dispar batavus*) at Wood Walton Fen. *Entomologist* 84:22-23. Jan. 1951. 421 En8
- 38835 BECK, E. W. Status of the European corn borer [*Pyrausta nubilalis*] in 1950. *U. S. Bur. Ent. & Plant Quar. Insect Pest Survey. Spec. Sup.* 1951(1), 20 p. Feb. 20, 1951. 1.9 En831B
- 38836 BERNARDI, G. Les Rhopalocères décrits par Geoffroy (Histoire abrégée des insectes qui se trouvent aux environs de Paris, 1785). *Rev. Franç. de Lépidoptérologie* 12:278-281. May/June 1950. 421 P192
- 38837 BERRY, R. C. Ryania, a new insecticide for fruitworm [*Mineola vaccinii*] control. *Cranberries* 15(10):12-14. Feb. 1951. 80 C852
- 38838 BISHOP, C. F. Corn borer [*Pyrausta nubilalis*] control in West Virginia. *W. Va. Agr. Col. Ext. C.* 361,8 p. Feb. 1951. 275.29 W522C
- 38839 BÖDEWADT, G. H. Untersuchungen über das zellteilungsgeschehen in der entwicklung der flügelanlagen von kleinschmetterlingen. *Biol. Zentbl.* 70:31-64. Ref. 1951. 442.8 B523  
*Ephestia kühniella* and *Galleria mellonella*.
- 38840 BORGHETTY, H. C., PARDEY, W. N., and SHERBURNE, O. L. Mothproofing—detergent combinations. *Amer. Dyestuff Rptr.* 40:P119-P121. Feb. 19, 1951. 306.8 Am3  
For wool.
- 38841 BOX, H. E. Report upon specimens of *Diatraea Guiling* (Lepidoptera, Pyralidae) in the Cornell University Collection. *N. Y. Ent. Soc. J.* 58:241-246. Dec. 1950. 420 N48J
- 38842 BRADLEY, J. D. *Micropteryx kaltenbachii* Wood 1890 synonymous with *Eriocrania chrysolepidella* Zeller 1851 (Lep. Eriocraniidae). *Entomologist* 84:9-10. Jan. 1951. 421 En8
- 38843 BURGEFF, H. Die meeralpengrenze der *Zygaenen* (Lep.), eine mit hilfe der populationsanalyse der arten der gattung *Zygaena* (Lepidoptera) durchgeführte untersuchung über die lokalisation und die bedeutung geographischer rassen in ihrem zusammenhang mit der eiszeit. *Biol. Zentbl.* 70:1-23. Ref. 1951. 442.8 B523  
Northern Italy and southern France.
- 38844 BUSH, R. Control of codling moth [*Carpocapsa pomonella*]. *Countryman* [Burford] 43:134-135. Spring 1951. 281.28 C832
- 38845 CAMPBELL, J. L. An experiment in marking migratory butterflies. *Entomologist* 84:1-6. Jan. 1951. 421 En8
- 38846 CANDURA, G. S. Observations on *Sitotroga cerealella* Oliv. in southern Italy and on other food moths. (In Italian.) *B. di Zool. Agr. e Bachicoltura.* 16:99-146. 1950. 423.92 B63
- 38847 CHIARELLI DE GAHAN, A. Clave para la identificación de los daños causados por los Lepidopteros perjudiciales al trigo, avena, cebada y centeno. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:93-95. 1950. 59.9 P41
- 38848 CLARK, A. H. Butterflies of the Marshall Islands (Lepidoptera). *Ent. Soc. Wash. Proc.* 53:43-44. Feb. 1951. 420 W27
- 38849 CLARK, P. G. The control of codling moth [*Carpocapsa pomonella*] with parathion. *Grower* [London] 35:16-17. Jan. 6, 1951. 286.83 M34
- 38850 CLEU, H. Une race cénovole de *Maculinea alcon* Schiff.—rebeli Herschke (Lép. Lycaenidae). *Rev. Franç. de Lépidoptérologie* 12:257-260. May/June 1950. 421 P192
- 38851 CLEU, H. La vie larvaire de *Derthisa scoricea* Esp. *Rev. Franç. de Lépidoptérologie* 12:319-320. Sept./Oct. 1950. 421 P192
- 38852 COLBERG, W. J., and MUNRO, J. A. 1951 control recommendations for European corn borer [*Pyrausta nubilalis*]. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:101-103. Jan./Feb. 1951. 100 N813B
- 38853 COLLENETTE, C. L. A new *Redoa* from Celebes (Lep., Lymantriidae). *Entomologist* 84:17-18. Jan. 1951. 421 En8
- 38854 CUNNINGHAM, G. Borer [*Pyrausta nubilalis*] control in 1950 paid cash dividends. *Iowa Farm & Home Register* 1951:5-H. Jan. 7, 1951. 6 Io94
- 38855 CURL, L. F. The pink bollworm [*Pectinophora gossypiella*] problem. *Cotton Gin & Oil Mill Press* 52(5):93-94. Mar. 3, 1951. 304.8 C822
- 38856 DAVIAULT, L. Le papillon satiné [*Stilpnolia salicis*]. *Forêt et Conserv.* 3:13-18. Jan. 1951. 99.8 F792
- 38857 DE WORMS, C. G. M. The butterflies of London and its surroundings. *London Nat.* (1949)29:46-80. 1950. 420 L843
- 38858 DOWDEN, P. B., CAROLIN, V. M., and DIRKS, C. O. Natural control factors affecting the spruce budworm [*Choristoneura fumiferana*] in the Adirondacks during 1946-1948. *J. Econ. Ent.* 43:774-783. Dec. 1950. 421 J822  
Parasites and predators.
- 38859 DRIGGERS, B. F. Parathion toxic to codling moth [*Carpocapsa pomonella*] larvae after they enter the fruit. *J. Econ. Ent.* 43:948-949. Dec. 1950. 421 J822
- 38860 DURINOV, S. A. Yellow-tail moth of fir [*Euproctis* sp.?]—a dangerous pest of Coniferae species. (In Russian.) *Lesn. Khoz.* 3(7):69-70. July 1950. 99.8 L5622
- 38861 FIELD, W. D. The International Commission on Zoological Nomenclature and the correct name for the North American monarch butterfly [*Danaus plexippus*]. *Ent. Soc. Wash. Proc.* 52:234-236. Oct. 1950. 420 W27
- 38862 FRANCLEMONT, J. G. A new generic name (Lepidoptera, Phalaenidae, Acontiinae). *Ent. Soc. Wash. Proc.* 52:271-272. Oct. 1950. 420 W27  
Thiptera, to replace *Xanthoptera* Guenée, not Sodoffsky.
- 38863 GAILLARD, R. Complément à l'étude de H. Beuret sur les *Plebeius argus* de Nîmes. *Rev. Franç. de Lépidoptérologie* 12:281. May/June 1950. 421 P192
- 38864 HELM, R. W. Spring cankerworm [*Paleacrita vernata*] control in Nebraska. *Nebr. Agr. Col. Ext. E. C.* 1559,2 p. Jan. 1951. 275.29 N272Ex
- 38865 HESLOP HARRISON, J. W. The holly blue butterfly [*Celastrina argiolus*] in Co. Durham. *Entomologist* 84:22. Jan. 1951. 421 En8
- 38866 HESLOP HARRISON, J. W. *Notodonta ziczac* L. on *Salix repens* in Northumberland. *Entomologist* 84:18. Jan. 1951. 421 En8
- 38867 HODGSON, S. B. Spiders and *Melitaea athalia*. *Entomologist* 84:6. Jan. 1951. 421 En8
- 38868 HODGSON, S. B. Unusual behaviour of *Polyommatus icarus*. *Entomologist* 84:22. Jan. 1951. 421 En8
- 38869 HOGG, P. G. Cutworm control measures outlined on basis of tests. *Miss. Farm Res. [Miss. Sta.]* 14(2):5. Feb. 1951. 100 M69Mi
- 38870 KNOWLTON, G. F. Cutworm control. *Utah. State Agr. Col. Ext. B.* 214,2 p. Jan. 1951. 275.29 Ut1
- 38871 LATTIN, G. DE. Türkische Lepidopteren. I. *Istanbul. Ü. Fen. Fakül. Mecmuası. Ser. B, Tabii Himler* 15:301-331. Oct. 1950. 475 Is7
- 38872 LEMPKE, B. J. *Strymonidia pruni* L. in Holland. *Entomologist* 84:21. Jan. 1951. 421 En8
- 38873 MCDUNNOUGH, J. H. Species of *Euxoa* of eastern North America, with particular reference to genitalic characters (Lepidoptera, Phalaenidae). *Amer. Mus. Nat. Hist. B.* 95:355-408. Dec. 29, 1950. 500 N483B
- 38874 MCELVARE, R. R. Note on *Chlorocleptria jaegeri*. *Brooklyn Ent. Soc. B.* 46:28. Feb. 1951. 420 B79



- 38875 MALLO, R. G. Observaciones sobre "lagarta rosada" [*Pectinophora gossypiella*] en rastrojos de algodóneros. IDIA; Inform. de Invest. Agr. 3(35/36):21-22. Nov./Dec.1950. 9 Id3
- 38876 MANSBRIDGE, W. Food-plant of *Phalonia luridana* Gregson. Entomologist 84:24. Jan.1951. 421 En8  
Reared from burdock.
- 38877 MARION, H. Contribution à l'étude des Crambus paléarctiques. III. Le groupe craterellus en Europe occidentale et en Afrique du Nord. Rev. Franç. de Lépidoptérologie 12:261-277. May/June 1950. 421 P192  
Includes new species.
- 38878 MAY, A. W. S. The importance of the calyx spray in the codling moth [*Carpocapsa pomonella*] control programme. Queensland Agr. J. 71:325-327. Dec.1950. 23 Q33  
DDT for control of codling moth in apples.
- 38879 MICHELbacher, A. E., BACON, O. G., and CASSIL, C. C. Codling moth [*Carpocapsa pomonella*] on Payne walnuts spray formula recommended. Diamond Walnut News 33(2):6-8. Mar.1951. 94.68 D34
- 38880 MICHELbacher, A. E., MIDDLEKAUFF, W. W., and HANSON, C. Occurrence of a fungus disease in overwintering stages of the codling moth [*Carpocapsa pomonella*]. J. Econ. Ent. 43:955-958. Dec.1950. 421 J822  
Probably *Beauveria bassiana*.
- 38881 MORRIS, D. S. Oriental peach moth [*Grapholitha molesta*]. Victoria. Dept. Agr. J. 48:565-567. Dec.1950. 23 V66J
- 38882 MUNROE, E. G. The systematics of *Calisto* (Lepidoptera, Satyriinae), with remarks on the evolutionary and zoogeographic significance of the genus. N. Y. Ent. Soc. J. 58:211-240. Ref. Dec.1950. 420 N48J
- 38883 MÜNzBERG, H. Zur bekämpfung des grünen eichenwicklers (*Tortrix viridana* L.). Forst u. Holz 5:372. Dec.1.1950. 99.8 F7724  
Use of DDT.
- 38884 NORTH CENTRAL TECHNICAL COMMITTEE ON ENTOMOLOGY. 1951 recommendations for insecticidal control of the European corn borer [*Pyrausta nubilalis*] in the North Central States. Iowa. State Col. Agr. Ext. Pam.164.4 p. Dec.1950. 275.29 Io9Pa
- 38885 ORTEGA, J. C. Control of the fruit tree leaf roller [*Archips argyrospila*] and the walnut aphid [*Chromaphis juglandicola*] in southern California. Diamond Walnut News 33(2):9. Mar.1951. 94.68 D34
- 38886 PARKS, T. H. What about armyworms [*Cirphis unipuncta*] ? Will they be back this summer? Ohio Farmer 207(5):12-13. Mar.3,1951. 6 Oh3
- 38887 PASTRANA, J. A. Las especies argentinas de *Diatraea*. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:82-87. 1950. 59.9 P41
- 38888 PASTRANA, J. A. La "oruguita verde" (*Loxostege similalis* Guenée) en cultivo de cereales. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:88-92. 1950. 59.9 P41
- 38889 PEIRSON, H. B. Spruce budworm [*Choristoneura fumiferana*] control; a cooperative project in Maine. Maine Forest Serv. C. 8,6 p. 1950. 99.9 M282C
- 38890 PICKEN, L. E. R. Shape and molecular orientation in Lepidopteran scales. Roy. Soc. London. Philos. Trans. Ser. B, Biol. Sci. 234(608),28 p. Aug.10, 1949. 501 L84Pb
- 38891 PIEDRA, A. A. El bórer [*Diatraea saccharalis*] en la industria azucarera. Retiro Azucarero 6(19/20):32-35.60. Sept./Dec.1950. 65.8 R31
- 38892 RECOMENDACIONES para combatir la *Carpocapsa* [pomonella] temporada 1950/51. B. Geigy 4,10 p. Nov.1950. 421 B632  
Use of "gesarol verde".
- 38893 REGT, N. A. DE. Disease control in fruit culture. *Incurvaria capitella*. (In Dutch.) Betuws Tuinbouwl. 8(22):3-4. Jan.20,1951. 80 B464
- 38894 RICHARDSON, C. H., and DU CHANOIS, F. R. Codling moth [*Carpocapsa pomonella*] infestation in the tops of sprayed and of unsprayed apple trees: second report. J. Econ. Ent. 43:912-914. Dec.1950. 421 J822
- 38895 SHVETSOVA, O. I. Polyhedral disease of big bee moth (*Galleria mellonella*) and role of feed factor in virus diseases of insects. (In Russian.) Mikrobiologiya 19:532-542. Nov./Dec.1950. 448.3 M582
- 38896 SY, M. Methodischer beitrage zur untersuchung der frage nach der bedeutung der II. generation des apfelwicklers (*Carpocapsa pomonella* L.). Z. f. Pflanzenkrank. (Pflanzenpath.) u. Pflanzenschutz 57:241-246. July/Aug.1950. 464.8 Z3
- 38897 THIELMANN, K. Nonnenbekämpfung 1950 im Forstamt Weiden (Opt.). Allg. Forstz. 6:49-51. Jan.31, 1951. 99.8 AL52  
*Lymantria monacha*.
- 38898 UNDERHILL, G. W. Some 1945-1949 notes on the sycamore leaf roller (*Anchylopera platanana* Clem) and its control. (Abs.) Va. J. Sci. (n.s.):1:333. Sept.1950. 470 V81
- 38899 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. The gypsy moth (*Porthetria dispar* (L.)). U. S. D. A. Picture Sheet 26,2 p. Nov.1950. 1 En86P
- 38900 VÁRI, L. Netherlands Lepidoptera (5th faunistic note). (In Dutch.) Ent. Ber. 13:193-198. (Concl.) Jan.1,1951. 420 N38B
- 38901 VENTURA, E., and RAUCOURT. Traitement par poudrage des pommiers à cidre, contre les chenilles défoliatrices (*Operophtera brumata*). Acad. d'Agr. de France. Compt. Rend. 36:685-686. Nov.29/Dec.6,1950. 14 P215Bc
- 38902 VIEL, G., and CHANCOGNE, M. Sur les propriétés ovicides du thiophosphate de diéthyle et de paranitrophényle. Acad. d'Agr. de France. Compt. Rend. 36:681-682. Nov.29/Dec.6,1950. 14 P215Bc  
Tests with *Operophtera brumata* and *Ephestia kuehniella*.
- 38903 WAITE AGRICULTURAL RESEARCH INSTITUTE. DEPT. OF ENTOMOLOGY. The climbing cutworm [*Heliothis armigera*] moth in South Australia. So. Austral. Dept. Agr. J. 54:184-189. Nov.1950. 23 S084
- 38904 WALKDEN, H. H., and WHITE, G. D. Status of the southwestern corn borer (*Diatraea grandiosella*) in Kansas, Oklahoma, Missouri, and Arkansas in the fall of 1950. U. S. Bur. Ent. & Plant Quar. Spec. Sup. 1951 (2),2 p. Feb.23,1951. 1.9En831B
- 38905 WARREN, B. C. S. Biological notes on the subspecies alpica and bigenerata of *Papilio machaon*. Entomologist 84:11-16. Jan.1951. 421 En8
- 38906 WATZL, O. Zur lebensweise und bekämpfung der wintersaateteule (*Agrotis segetum* Schiff.). I. Pflanzenschutzberichte 5:345-358. Ref. Dec.1950. 464.9 P48  
English summary.
- 38907 WENE, G. P. Sunflower moth [*Homoeosoma electellum*] larva injuring to young citrus. J. Econ. Ent. 43:948. Dec.1950. 421 J822
- 38908 WILBUR, D. A. Corn borers in Kansas. Kans. State Bd. Agr. Rpt. 69(296):74-79. Apr.1950. 2 K13Re  
Includes discussion.  
*Pyrausta nubilalis*.
- 38909 WILLIAMS, J. R. The bionomics and morphology of *Brenthia leptocosma* Meyrick (Lep., Glyphipterygidae). B. Ent. Res. 41:629-635. Feb.1951. 421 B87
- 38910 WOODROFFE, G. E. A life-history study of the brown house moth, *Hofmannophila pseudospretella* (Staint.) (Lep., Oecophoridae). B. Ent. Res. 41:529-553. Ref. Feb.1951. 421 B87
- 38911 ZISCHKA-WINTER, R. Über einen koka-schädling in Südamerika. Anz. f. Schädlingssk. 24:10-12. Jan.1951. 421 An9  
Eloria sp.  
See also Sericulture and the Silkworm.

## ORTHOPTERA

- 38912 ALEXANDER, G. The occurrence of Orthoptera at high altitudes, with special reference to Colorado Acrididae. Ecology 32:104-112. Ref. Jan.1951. 410 Ec7
- 38913 CHIAROMONTE, A. More adequate control of locusts in Somalia. (In Italian.) Riv. di Agr. Subtrop. e Trop. 44:287-289. Oct./Dec.1950. 26 Ag82  
English summary.
- 38914 DELMAS, R., and RAMBIER, A. Contribution à l'étude de la répartition du criquet marocain (*Dociostaurus maroccanus* Thunb.) en France continentale. Acad. des Sci. Compt. Rend. 232:566-567. Feb.5,1951. 505 P21
- 38915 DIRSH, V. M. A new biometrical phase character in locusts. Nature [London] 167:281-282. Feb.17, 1951. 472 N21  
*Schistocerca gregaria*.



- 38916 DIRSH, V. M. A new injurious Indian grasshopper [*Indomerus noxius* n.g., n. sp.] (Orthoptera, Acrididae). B. Ent. Res. 41:599-601. Feb.1951. 421 B87
- 38917 FRAPPA, C., and TETFORT, J. Note préliminaire sur un ver nématode du genre *Agamerms* parasite de la sauterelle *Locusta migratoria capito* a Madagascar. Madagascar. Insp. Gén. des Serv. Agr. B. Agr. 3(24):18-19. June 1950. 25 M26
- 38918 GRAYSON, J. M. Response of the German cockroach [*Blattella germanica*] to sublethal concentrations of DDT and benzene hexachloride: progress report. (Abs.) Va. J. Sci. (n.s.):1:352. Sept.1950. 470 V81
- 38919 GRÉGOIRE, C. Virus-like bodies in the blood of the house cricket [*Acheta domestica*]. J. Gen. Microbiol. 5:121-123. Feb.1951. 448.3 J823  
Electron microscope observations.
- 38920 GURNEY, A. B. On *Dicranostomus*, a remarkable Peruvian genus of katyids; and notes on other insects having elongate mandibles (Orthoptera: Tettigoniidae). Ent. Soc. Amer. Ann. 43:546-554. Dec.1950. 420 En82
- 38921 GURNEY, A. B. Revision of the North American grasshoppers of the *Conalcaea* complex. U. S. Natl. Mus. Proc. 101:275-304. 1951. 500 Sm65P  
Includes new species in *Conalcaea* and *Baryttettix*.
- 38922 HIXSON, E. Grasshoppers on the hop. Nebr. Farmer 93(6):12. Mar.17,1951. 6 N27
- 38923 KENNEDY, J. S. Man against locust. Discovery 12:13-14. Jan.1951. 472 D63
- 38924 KNOWLTON, G. F. Grasshopper control in Utah, 1950. Utah. State Agr. Col. Ext. M. S. 59,3 p. Dec. 1950. 275.29 Ut1ms
- 38925 KNOWLTON, G. F. Unusual cockroach. Brooklyn Ent. Soc. B. 46:9. Feb.1951. 420 B79  
*Supella supellectilium* in Utah.
- 38926 LIEBERMANN, J. Síntesis de Sinipta, Stål, 1873, con la descripción de una nueva especie Argentina, *S. hectorisperonii* (Orth., Acrid., Acridinae). Argentina. Inst. de Sanid. Veg. [P.], Ser. A 6(52),14 p. 1950. 464.9 Ar323
- 38927 NABOURS, R. K., and STEBBINS, F. M. Cytogenetics of the grouse locust *Apotettix eurycephalus* Hancock [i. e. *Paratettix rugosus* (Scudd.)]. Kans. Agr. Expt. Sta. Tech. B. 67,116 p. Ref. Apr.1950. 100 K13S
- 38928 NORRIS, M. J. Reproduction in the African migratory locust (*Locusta migratoria migratorioides* R. & F.) in relation to density and phase. Brit. Mus. (Nat. Hist.) Anti-Locust B. 6,48 p. Ref. 1950. 420 B772A
- 38929 SHVANVICH, B. N. Aerodynamic stimulators of flight in grasshoppers [*Schistocerca gregaria* transiens]. (In Russian.) Priroda 39(9):68. Sept.1950. 410 P933
- 38930 WAKELAND, C., and PARKER, J. R. Grasshopper control with aldrin, chlordane, and toxaphene. U. S. D. A. PA-149,12 p. Feb.1951. 1 Ag84Pro  
Supersedes EC-11, Chlordane and toxaphene for grasshopper control.
- 38931 WALKER, L. W. A desert walking stick. Nat. Hist. 60:132-133. Mar.1951. 500 N483J  
*Pseudosermyle arbuscula*?
- 38932 ZOLOTAREVSKY, B. Mécanisation de la lutte antiacridienne en Afrique Française. Marseille. Inst. Colon. Cahiers Colon. 1950:455-456. Dec.1950. 286.8 M35  
Application of dusts and sprays.

## SERICULTURE AND THE SILKWORM

- 38933 CHRISTOFF, D. Sur la méthode pour établir les dimensions et la forme des cocons du ver à soie — *Bombyx mori*. (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis. 18(2):47-68. Ref. 1950. 106.3 R32  
French summary.
- 38934 DIKASOVA, E. T. Effect of yellow disease virus on viability of mulberry silkworm [*Bombyx mori*]. (In Russian.) Mikrobiologiya 19:444-448. Ref. Sept./Oct. 1950. 448.3 M582
- 38935 DRILHON, A., BUSNEL, R. G., and VAGO, C. Les acides aminés libres et les substances fluorescentes du sang, et des tubes de Malpighi, de la chenille de *Bombyx mori* L., atteinte de la maladie à polyèdres et de la lacherie. Acad. des Sci. Compt. Rend. 232:360-361. an.22,1951. 505 P21
- 38936 EMME, A. M. Variability and inheritance of sensitivity to low temperatures of mulberry silkworm [*Bombyx mori*] gut during diapause. (In Russian.) Akad. Nauk SSSR. Dok. 75:119-122. Nov.1,1950. 511 P444A
- 38937 GLEISBERG, H. Seidenbau im kleintierhof ein technisches problem. Tech. f. Bauern u. Gärt. Ausg. A 2:635-636. Nov.10,1950. 58.8 T223
- 38938 HOLEC, E. Seidenstrassen. Osterr. Kleintierzüchter 1950:876-877. Dec.1950. 49 Os7
- 38939 SIT'KO, P. O. Effectiveness of heterospermic insemination of the oak silkworm [*Antheraea pernyi*]. (In Russian.) Vsesoizn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(10):39-41. 1950. 20 Ak1
- 38940 TARASEVICH, L. M. On obtaining mulberry silkworm caterpillars [*Bombyx mori*] free from yellow disease. (In Russian.) Mikrobiologiya 19:364-368. July/Aug.1950. 448.3 M582
- 38941 YAMAFUJI, K., AKITA, T., and INAKA, M. Experimental production of silkworm virus under sterile conditions. Enzymologia 14:164-169. Ref. Sept.15,1950. 390.08 En9  
Fed on potassium nitrate, acetoxime, and hydroxylamine.
- 38942 YAMAFUJI, K., and OMURA, H. The formation of silkworm virus by acetoxime feeding. Enzymologia 14:120-123. Ref. Sept.15,1950. 390.08 En9
- 38943 YAMAFUJI, K., YOSHIHARA, F., and WADA, H. Formation of oxime in silkworms after feeding with inorganic nitrogenous salts. Enzymologia 14:170-176. Ref. Sept.15,1950. 390.08 En9  
Nitrates, nitrites, and ammonium salts.
- 38944 YAMAFUJI, K., and YOSHIHARA, F. On the virus production and oxime formation in silkworms fed with nitrites. Enzymologia 14:124-127. Ref. Sept.15, 1950. 390.08 En9

## SMALLER ORDERS

- 38945 AITKENHEAD, P. The gladiolus thrips [*Taeniothrips simplex*]—a pest new to Britain. Gt. Brit. Min. Agr. Agriculture 57:517-523. Ref. Feb.1951. 10 G79J
- 38946 AITKENHEAD, P. Gladiolus thrips [*Taeniothrips simplex*] needs winter control. Grower [London] 35:397. Feb.24,1951. 286.83 M34
- 38947 BEHM, H. W. Sechsheinige sonderlinge. Nat. u. Nahr. 4(19/20):3-7. Oct.1950. 80 N218  
Termites.
- 38948 BETTEN, C. The genus *Pycnopsycha* (Trichoptera). Ent. Soc. Amer. Ann. 43:508-522. Dec.1950. 420 En82
- 38949 BOYD, E. M. A survey of parasitism of the starling *Sturnus vulgaris* L. in North America. J. Parasitol. 37:56-84. Ref. Feb.1951. 448.8 J824  
Ectoparasites included Mallophaga, Diptera (Ornithomyia fringillina), fleas, and mites.
- 38950 CHEN, C. W. A revision of the genus *Chlorogomphus* Selys of eastern China (Odonata: Cordulegastriidae). Taiwan Mus. Q. J. 3:137-150. Ref. Sept.1950. 513 T133
- 38951 CHOW, C. Y., and HUANG, T. C. The identification of known species of Taiwan (Formosan) fleas (Insecta, Siphonaptera). Taiwan Mus. Q. J. 3:113-123. Sept.1950. 513 T133
- 38952 CLAY, T. Systematic notes on the Piaget collections [Mallophaga]. II. Colpocephalum (sensu Piaget) A-C. Ann. & Mag. Nat. Hist. (ser.12)4:173-182. Feb. 1951. 410 An77
- 38953 EICHLER, W. Die bedeutung von H. Fahrenholz für die läuseforschung. Z. f. Hyg. Zool. u. Schädlingsbekämpf. 38:326-337. Ref. Oct./Nov.1950. 449.8 Z36  
Includes list of genera and species described (Mallophaga and Anoplura).
- 38954 EICHLER, W. Ektoparasiten von zoo-tieren. I. Mallophagen vom nandu [*Rhea americana*]. Zool. Gart. 17:258-261. 1950. 410 Z724  
Includes new species in *Struthiolipeurus*.
- 38955 FOX, I. Relative and seasonal abundance of the common rat ectoparasites of San Juan, Puerto Rico. J. Parasitol. 37:85-95. Ref. Feb.1951. 448.8 J824  
Chief parasites: *Xenopsylla cheopis*, *Echinophaga gallinacea*, *Polyplax spinulosa*, *Liponissus bacoti*, *Laelaps nuttalli*, and *Ornithodoros puertoricensis*.
- 38956 FRASER, F. C. The early nymphal instars of *Oxygastra curtisii* (Dale) (Odon., Corduliidae). Ent. Mon. Mag. 87:35-40. Feb.1951. 421 En86



38957 FRASER, F. C. Outline of a new classification for the legion *Lestes* Selys (order Odonata). Ent. News [Philadelphia] 62:61-69. Feb. 1951. 421 En88  
Includes families Perilestidae, Chlorolestidae, and Lestidae.

38958 GEIJSKES, D. C. Notes on Odonata of Surinam. V. A new species of *Misagria* with a redescription of the genus (Odonata: Libellulidae). Ent. News [Philadelphia] 62:70-76. Feb. 1951. 421 En88

38959 GRASSÉ, P. P., and HOLLANDE, A. La famille des rhizonymphidae: un nouveau type de flagellés symbiotiques termiticoles. Acad. des Sci. Compt. Rend. 232: 458-460. Feb. 5, 1951. 505 P21

38960 GRATON, A. Vos poules sont-elles pouilleuses? B. des Agr. 47(2):18-19. Feb. 1951. 7 B872

38961 GUIMARÃES, L. R. On a new species of *Pterophthirus* Ewing, 1923 (Anoplura). (In Portuguese.) São Paulo. Dept. de Zool. Papéis Avulsos 9:83-88. Jan. 2, 1950. 410.9 Sa63

38962 GUIMARÃES, L. R. On some genera and species of Heptapsogastridae (Mallophaga). V. *Pectenoma*. (In Portuguese.) São Paulo. Dept. de Zool. Papéis Avulsos 9:249-258. July 18, 1950. 410.9 Sa63  
English summary.

38963 GUIMARÃES, L. R. Short notes on Mallophaga. II. (In Portuguese.) São Paulo. Dept. de Zool. Papéis Avulsos 9:321-340. Nov. 15, 1950. 410.9 Sa63  
English summary.

Includes new species in *Pseudolipeurus*.

38964 HEIM, R., and BUCHLI, H. Un champignon [*Antennopsis gallica*] parasite du termite de Saintonge [*Reticulitermes* sp.]. Acad. des Sci. Compt. Rend. 232: 277-280. Jan. 22, 1951. 505 P21

38965 ISHERWOOD, H. R. Life artery of a building—or how termites set up housekeeping. Pest Control 19(3): 22-23. Mar. 1951. 449.8 Ex8

38966 KIMMINS, D. E. A note on the females of the British species of *Beraeidae* (Trichoptera). Entomologist 84:19-21. Jan. 1951. 421 En8

38967 KNOWLTON, G. F., and BINNS, W. Cattle lice control. Utah. State Agr. Col. Ext. B. 215, 2 p. Jan. 1951. 275.29 Utl

38968 KNOWLTON, G. F. Earwig [*Forficula auricularia*] control. Utah State Agr. Col. Ext. B. 217, 2 p. Jan. 1951. 275.29 Utl

38969 LAIDLAW, F. F. A note on the derivation of the odonate fauna of the Island of Ceylon. Ent. News [Philadelphia] 62:77-83. Ref. Feb. 1951. 421 En88

38970 LUSCHER, M. Termiten und holzschutz gegen termiten. Holz 5:10-12. Jan. 1951. 99.82 H743

38971 MARCUS, H. Los organos genitales de *Dinjapax marcus* (Silvestri). Folia U. 4(4):57-62. Oct. 1950 516 F71

English summary.

38972 MARCUS, H. Sobre la muda de *Dinjapax marcus* (Silvestri). Folia U. 4(4):81-85. Ref. Oct. 1950. 516 F71

38973 MAYEUX, H. S., and WENE, G. P. Control of onion thrips [*Thrips tabaci*] with low volume sprays. J. Econ. Ent. 43:908-912. Dec. 1950. 421 J822

38974 MUNROE, E. G. The identity and generic position of *Chauliodes disjunctus* Walker (Megaloptera: Corydalidae). Canad. Ent. 83:33-35. Feb. 1951. 421 C16  
Placed in *Protochauliodes*.

38975 PACKARD, H. R., JR. The control of dry-wood termites [*Kaloterms*] in southern California. Pest Control 19(2):9-10. Feb. 1951. 449.8 Ex8

38976 ROMER, J. D. Survey of fleas from 'domestic' rats in the Colony of Hong Kong. J. Trop. Med. & Hyg. 54:33-36. Feb. 1951. 448.8 J827

38977 SNYDER, T. E. "Roadblocks" for subterranean termite control. Pest Control 19(2):28. Feb. 1951. 449.8 Ex8

38978 SOULE, G. Termites can be defeated. Pop. Sci. Mon. 158(3):227-231. Mar. 1951. 470 P81

38979 TING, P. C. An African earwig in California (Dermaptera, Labiduridae). Calif. Dept. Agr. B. 40:4-9. Jan./Mar. 1951. 2 C12M  
*Euborellia cincticollis*.

38980 WILLIAMS, L. A., and HOFF, C. C. Fleas from the upper Sonoran zone near Albuquerque, N. Mex. U. S. Natl. Mus. Proc. 101:305-313. 1951. 500 Sm65P  
Includes new species in *Anomiopsyllus* and *Meringis*.

## AGRICULTURAL ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

## GENERAL AND MISCELLANEOUS

38981 ABRAMOV, V. Model layouts of production centres on consolidated collective farms. (In Russian.) Sel'sk. Stroitel' 5(5):15-19. Sept./Oct. 1950. 296.28 Se4

38982 ALLTON, M. E. Ohio highways. Ohio Farm Bur. News 30(8):20-21. Mar. 1951. 6 Oh34

38983 BELFIORE, P. La détermination analytique préalable du prix de revient des leviers topographiques classiques et des leviers exécutés par la photogrammétrie aérienne. Photogrammetria 2:82-90. 1950/51. 325.28 P562

English summary, p. 91-92.

Cadastral surveys in Italy.

38984 CHRISTENSEN, E. J. Planning the Nebraska farmsteads. X. Nebr. Elect. Farmer 5(2):6. Feb. 1951. 335.8 N27

Conclusion of a series on farm layouts.

38985 DEARBORN, N. Safety in six easy lessons. Kans. State Bd. Agr. Rpt. 69(296):48-57. Apr. 1950. 2 K13Re

38986 FARMER, S. Training the agricultural engineer. Power Farmer 6(3):33-35. Mar. 1951. 58.8 P872

38987 FREDERICKSON, K. Remodeled from scratch. Nebr. Farmer 93(5):10. Mar. 3, 1951. 6 N27

Farm improvements including remodeled buildings.

38988 FULLAGAR, H. R. Maps aid rural fire fighters in the Chino district. Calif. Farmer, North. Ed. 194:172-173. Feb. 24, 1951. 6 C126

38989 HARRINGTON, E. G. The legal description of your farm. Farm Policy Forum 4(2):29-30. Feb. 1951. 281.8 F2274

Surveying.

38990 JORDBRUKSTEKNISKA INSTITUTET. Jordbrukstekniska Institutets årsberättelse [Annual report of the Institute of Agricultural Engineering] 1949-1950. Jordbrtek. Inst. Meddel. 233, 26 p. Ref. 1950. 58.9 J762

38991 KRAUSZ, N. G. P. Fire protection districts in Illinois. Natl. Fire Protect. Assoc. Q. 44:178-191. Jan. 1951. 296.68 N212

Rural.

38992 LAMARCHE, V. H. Lightning protection. Prof. Gard. 2:188-189. Aug. 1950. 80 P945

38993 LISSNER, T., and HÖRNIG, F. Vermessung. Gerold's Handb. der Landwirt. 3:155-192. 1950? 33.29 G31

Surveying of agricultural land in Austria.

38994 MCCORMICK, J. C. Can we have good roads? Consolidated districts, a modern road law, are first steps. Ill. Agr. Assoc. Rec. 29(2):25. Feb. 1951. 6 IL62

Rural roads in Illinois.

38995 PALMER, W. Rancher road builders. Nebr. Farmer 93(5):1, 46, 50-51. Mar. 3, 1951. 6 N27

Financing the construction of roads in Nebraska.

38996 POWERS, J. H. Farm injuries. New Eng. J. Med. 243:979-983. Dec. 21, 1950. 448.8 N442

Statistics.

38997 RUSH, J. D. State legislation on rural fire protection. Natl. Fire Protect. Assoc. Q. 44:173-177. Jan. 1951. 296.68 N212

38998 RYAN, J. M. Dakota farmstead improvement. Dakota Farmer 71(5):16, 24. Mar. 3, 1951. 6 D14

38999 SAILA, S. Farm fish pond management shows progress. Farm Res. [N. Y. State Sta.] 17:8-9. Jan. 1951. 100 N48A

39000 TEWKSBERRY, G. M. 443 safer farms. Farm Safety Rev. 9(2):3, 13. Mar./Apr. 1951. 449.8 F22

Ohio.

39001 WARDLE, N. J. Iowa's rural schools reduce farm fires. Farm Safety Rev. 9(2):6-7. Mar./Apr. 1951. 449.8 F22

39002 WARE, R. R. Farm roads. Gt. Brit. Min. Agr. Agriculture 57:528-530. Feb. 1951. 10 G79J

39003 WILSON, O. B. Fighting prairie fires. Capper's Farmer 62(3):20, 50. Mar. 1951. 6 M693



## FARM MACHINES AND EQUIPMENT

- 39004 ANTHEAUME. Quelques aspects des difficultés de la mécanisation agricole dans l'Union Française. Marseille. Inst. Colon. Cahiers Colon. 1950:440-443,445-446. Dec.1950. 286.8 M35
- 39005 ASKERLUND, R. Marketing conditions in the agricultural machinery line. (In Swedish.) Sweden. Komkol. Kom. Meddel. 37:761-768. Nov.1950. 257.3 K832K
- 39006 BARTON, P. S., and GILMAN, P. A. Planning or a continuous program of instruction in farm mechanics Agr. Educ. Mag. 23:207. Mar.1951. 275.8 Ag8
- 39007 BESKINE, J. M. Lessons of Smithfield: British school of design emerges. Agr. Mach. J. 5:21. Jan.1951. 58.8 Ag86
- 39008 BILLINGS, T. W. Farm steel use is small but essential. G. L. F. Week. Serv. Sched. 15(31):1-2. Feb. 5, 1951. 280.28 G113W
- 39009 BÖRGEMANN. Landmaschinen-schau in Oldenburg. Tech. f. Bauern u. Gärt. Ausg. A 2:552. Oct.10, 1950. 58.8 T223
- 39010 BRENNER, W. G., and GAUS, H. Betrachtungen über schlepperlader Tech. f. Bauern u. Gärt. Ausg. A 2:722-724. (To be cont.) Ref. Dec.25,1950. 58.8 T223
- 39011 BROUGHTON, A. Machinery 'headaches' ahead? Probably, but you can avoid some of them by ordering machinery you need now, by exchanging with neighbors. Wis. Agr. & Farmer 78(6):4. Mar.17,1951. 6 W751
- 39012 BROWN, F. W. Do farmers buy equipment by brands? Impl. & Tractor 66(3):43,91-93. Feb.3,1951. 58.8 W41
- Survey in Parke County, Indiana.
- 39013 CAILAR, P. Machines agricoles étrangères employées dans les Territoires d'Outre-Mer de l'Union Française. Marseille. Inst. Colon. Cahiers Colon. 1950:413. Dec.1950. 286.8 M35
- 39014 CIAMPOLINI, U. R. Mechanization of the share farm. (In Italian.) Terra [Firenze] 62(3):1-2. Jan.21,1951. 16 T274
- Italy.
- 39015 CORDESSE, A. Présentation du numéro spécial sur le machinisme agricole dans l'Union Française. Marseille. Inst. Colon. Cahiers Colon. 1950:407. Dec.1950. 286.8 M35
- 39016 COUTANT, M. Le matériel de motoviticulture à Montpellier. Motorisation Agr. 5:571-573. Nov.1950. 58.8 M85
- 39017 CROWE, G. B. Study reveals farm equipment operating costs. Miss. Farm Res. [Miss. Sta.] 14:1,3. Jan.1951. 100 M69Mi
- 39018 CULAR, N. O. Does the fair display pay its way? Farm Impl. News 72(3):50-51,118. Feb.10,1951. 58.8 F22
- 39019 DENCKER. Die nächsten aufgaben der land-technik. (Excerpts.) Tech. f. Bauern u. Gärt. Ausg. A 2: 519-520. Sept.25,1950. 58.8 T223
- 39020 DOWNING, D. The co-op use of farm machinery. Co-op. Consum. [Saskatoon] 12(9):4. Oct.27,1950. 280.28 C7839
- 39021 FEDÛSHIN, A. M. Improvement of technology and organization of production at the factories of agricultural machinery construction in 1950. (In Russian.) Sel'khoz mashina 1950(12):16-20. Dec.1950. 58.8 Se42
- 39022 FERRAND. La mécanisation de la culture du palmier à huile. Marseille. Inst. Colon. Cahiers Colon. 1950:420-421. Dec.1950. 286.8 M35
- 39023 GAVEAU, R. La mécanisation de l'agriculture dans les territoires de l'Union Française. Marseille. Inst. Colon. Cahiers Colon. 1950:410. Dec.1950. 286.8 M35
- 39024 GILLING, T. Machines from East and West; first post-war view of Soviet models at this year's Paris show. Farmers Wk. [London] 34(9):36-37. Mar.2,1951. 10 F2226
- 39025 GLOUCESTER, ENG. FOLK MUSEUM. Guide to the collection of bygone agricultural implements, by J. N. Taylor. Gloucester,1950. 19 p. 58 G51
- 39026 GÓMEZ, P. Servicios que presta al publico nuestro Departamento de Agronomia. Rev. de Agr. Com. e Indus. [Panama] 8(111/112):21. Nov./Dec.1950. 8 R3291
- Supplying of equipment to farmers in Panama.
- 39027 GONÇALVES, P. A. Equipment used in rice culture in Arkansas. (In Portuguese.) Lav. Arroz. 4(47): 34-36. Nov.1950. 59.8 L39
- 39028 GONÇALVES, P. A. Types of agricultural equipment. (In Portuguese.) Lav. Arroz. 4(47):33. Nov. 1950. 59.8 L39
- 39029 HARTLEY, C. W. S. The mechanization of rice production with special reference to problems in the humid tropics. I. Brit. Agr. B. 3:200-204. (To be cont.) 1950/51. 10 B776
- 39030 HUET. Aperçu sur la mécanisation de la riziculture en Indochine. Marseille. Inst. Colon. Cahiers Colon. 1950:451-453. Dec.1950. 286.8 M35
- 39031 INSTITUT FRANÇAIS DU CAOUTCHOUC. La matériel en hévéaculture. Marseille. Inst. Colon. Cahiers Colon. 1950:423-427. Dec.1950. 286.8 M35
- 39032 JOUHANNAUD, G. La standardisation des elevages hydrauliques; les utilisateurs la réclament. Génie Rur. 44:62-64. Feb.1951. 58.8 Au8
- 39033 KUTNEWSKY, F. Albuquerque manufacturing plants ready to supply ranch and farm needs if war production should cause shortages. N. Mex. Stockman 16(3): 38,58. Mar.1951. 49 N462
- 39034 MCMORLAND, P. R. J. Machinery in the seeds field. Power Farmer 6(3):28-30. Mar.1951. 58.8 P872
- 39035 MININ, P. I., and MOLCHANOV, A. P. Machine-Testing Station of Timirfazev Agricultural Academy and its development. (In Russian.) Sel'khoz-mashina 1950(9):7-8. Sept.1950. 58.8 Se42
- 39036 MOFFETT, B. W. Progress in farming spurred by machines; farmers can produce more with greater ease than they could ten years ago. Farm & Gard. [Watertown] 1951:1,4. Feb.17,1951. 6 F234
- 39037 MUIJZENBERG, E. W. B. VAN DEN. Application of technical aids in horticulture in England. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13 (10,sup.):317-338. Ref. Nov.1950. 86 N384
- 39038 MUIJZENBERG, E. W. B. VAN DEN. Manufacture and application of technical aids in horticulture in Switzerland. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13(10,sup.):69-96. Ref. Nov.1950. 86 N384
- 39039 MULLER, H. J. Course in mechanics for future farmers; successful innovation at Ficksburg Technical High School. Farmer's Wk. [Bloemfontein] 80:47. Jan.3,1951. 24 F225
- 39040 NATIONAL MARKET REPORTS. National tractor and farm implement blue book, 1951 edition, v. 12. No. 1. Chicago,1951. 202 p. 58.9 N212
- 39041 OLSON, E. A., and FOUTS, K. C. Portable livestock loading chute. Nebr. Agr. Col. Ext. Agr. Engin. Farm Bldg. 3,3 p. Feb.1951. 275.29 N272Ag
- 39042 OWEN, E. M. The organization of machinery pools. In Agricultural Co-operative Association. The farmer in business, p.83-87. London,1950. 280.2 Ag83F
- 39043 PELEGRIN, P., and NAVELLIER, E. Production fruitière d'Outre-Mer et perfectionnement mécanique. Marseille. Inst. Colon. Cahiers Colon. 1950:429-437. Dec.1950. 286.8 M35
- 39044 RANCHENSTEIN, E. Your farm machinery—how much is it worth to you? Hoard's Dairyman 96:161, 179. Feb.25,1951. 44.8 H65
- Costs.
- 39045 RANDOLPH, C. Are you a slave to the scoop shovel? Prairie Farmer, Gen. Ed. 123(4):1,50-51. Feb. 17,1951. 6 P883
- Labor saving equipment and work management.
- 39046 RAVENSTEIN, M. VAN, and SMITS, J. VAN G., JR. Reform and modernization of horticulture in the Duin area; mechanization and cold storage. (In Dutch.) Groenten en Fruit 6:367,394. Nov.30-Dec.7,1950. 80 G89
- 39047 REHRL, K. Maschinenkunde. Gerold's Handb. der Landwirt. 3:207-224. 1950? 33.29 G31
- 39048 RIETSEMA, C., and GEEL, J. D. W. VAN. Size of holdings and working methods in England. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13(10,sup.): 339-351. Nov.1950. 86 N384
- Equipment.
- 39049 ROBINSON, C. What's new in beet machinery for spring work. Idaho Farmer 69:161,180. Mar.1,1951. 6 G282
- 39050 SCHLUTER, H. Der landmaschinen-fachhandels-betrieb in der Sowjetzone. Tech. f. Bauern u. Gärt. Ausg. A 2:663-664. Nov.25,1950. 58.8 T223
- 39051 SCOTTON, M. Production and prices of farm machines in Italy in 1949. (In Italian.) Riv. di Econ. Agr. 5:112-116. 1950. 281.8 R52
- English summary.



- 39052 SEIDLER, H. Höhere erzeugung bei geringeren erzeugungskosten. *Landtechnik* 6:89-90. Feb.15,1951. 58.8 L235
- 39053 SELLE, E. Cut the labor in gardening. *Wash. Farmer* 76:110,115. Feb.15,1951. 6 R151 Equipment.
- 39054 SHCHUCKHIN, N. V. Methods of creative collective work of Academician V. P. Goriachkin. (In Russian.) *Sel'khoz mashina* 1950(9):9-10. Sept.1950. 58.8 Se42  
In construction of agricultural machines.
- 39055 STAUFFER, O. Normung im landmaschinen- und ackerschlepperbau. *Tech. f. Bauern u. Gärt. Ausg. A* 2:554-556. Oct.10,1950. 58.8 T223
- 39056 STBINGER, S. Schwierige mechanisierung in der südwestecke; die kleinbauern rufen nach der allzweckmaschine. *Tech. f. Bauern u. Gärt. Ausg. A* 2:581-582. Oct.25,1950. 58.8 T223
- 39057 SUCRÉRIES MARSEILLAISES DE MADAGASCAR. La mécanisation de la culture de la canne à sucre. *Marseille. Inst. Colon. Cahiers Colon.* 1950:447-449. Dec.1950. 286.8 M35
- 39058 SYSOEV, N. I. Agricultural mechanics of academician V. P. Goriachkin and its application in rational designing and calculating of machines. (In Russian.) *Sel'khoz mashina* 1950(9):5-7. Sept.1950. 58.8 Se42
- 39059 THEBIS, R. Landtechnik hilft dem bauern wie der bäuerin! *Tech. f. Bauern u. Gärt. Ausg. A* 3:35-37. Jan.25,1951. 58.8 T223
- 39060 TOMLINSON, F. R. Mechanization in South African agriculture. *Citrus Grower* 204:7. Jan.1951. 80 C495
- 39061 VIGUIER, P. La mécanisation de la culture du coton dans le Delta Central Nigerien. *Marseille. Inst. Colon. Cahiers Colon.* 1950:459-460,462. Dec.1950. 286.8 M35
- 39062 VITALI, G. Mechanization of agriculture and difficulties standing in the way of it. (In Italian.) *Gior. di Agr.* 61:44. Feb.11,1951. 16 R1G Italy.
- 39063 WARDROP, G. Diesels, discs and driers; Paris machinery exhibition suggests British makers neglecting opportunity. *Farmer & Stock-Breeder* 65(3202): 67,69. Mar.6,1951. 10 F228
- 39064 WESTRIP, C. E. Supply and repair of agricultural machinery. In *Agricultural Co-operative Association. The farmer in business*, p.54-58. London,1950. 280.2 Ag83F
- 39065 YOUNG, O. L. What are they teaching in farm mechanics? *Agr. Educ. Mag.* 23:208. Mar.1951. 275.8 Ag8
- 39066 ZANARDI, G. Mechanization on the share farm. (In Italian.) *Terra [Firenze]* 62(4):1. Jan.28,1951. 16 T274 Italy.

#### Animal Husbandry Equipment

- 39067 ANDERSON, C. F., MCARDLE, A. A., and JONES, M. D. Infra-red brooding; results of trials at Parafield Poultry Experiment Station. *So. Austral. Dept. Agr. J.* 54:240-242. Dec.1950. 23 So84
- 39068 AUBOL, W. F. Early chicks yield higher profits. *Nebr. Elect. Farmer* 5(3):5. Mar.1951. 335.8 N27  
Use of electric brooders.
- 39069 BLACKWELL, H. L. "Chilling" does not favour growth. *Mod. Poultry Keeping* 64:114-115. Jan.31, 1951. 47.8 Eg3  
Heat for brooding chicks.
- 39070 BOGGS, L. C. Evolution of the perch. *Wash. coegg* 28(9):10,26. Feb.1951. 47.8 W27
- 39071 BYRNES, D. J. Comprising 50% of the body and 65% of the whole egg, the most neglected and yet one of the most important factors for poultry is water. *Albers Egg Maker* 27:8-9,20-21. Spring 1951. 47.8 AL1  
Chiefly equipment.
- 39072 CHUMAK, A. V., and SHVETSOV, A. A. New machines for the animal industry. (In Russian.) *Sel'khoz mashina* 1950(12):3-8. Dec.1950. 58.8 Se42
- 39073 DRAWBAUGH, C. C., and MOWERY, A. S. Plywood self-feeder for swine. *Pa. Agr. Expt. Sta. Prog. Rpt.* 39,4 p. Nov.1950. 100 P381P
- 39074 FENLEY, J. M. A one-man portable livestock enclosure. *J. Range Mangt.* 4:112-113. Mar.1951. 60.18 J82
- 39075 GALUST'IAN, M. S. First successes. (In Russian.) *Sof'sialist. Zhivotnovod.* 12(9):88-89. Sept. 1950. 49 So71  
Kalinin livestock farming machine station [in Armenian SSR].
- 39076 GUINOT, M. La incubación artificial. *Valencia Avic.* 7:23-24. Oct.1950. 47.8 V23
- 39077 HANSARD, S. L., and others. The design and operation of metabolism units for nutritional studies with swine. *J. Anim. Sci.* 10:88-96. Feb.1951. 49 J82  
M. P. Plumlee, C. S. Hobbs, and C. L. Comar, joint authors.
- 39078 HANSON, D. Production costs dropped when he quit carrying feed. *Successful Farming* 49(3):38-39, 72-73. Mar.1951. 6 Su12  
Includes feed carriers, self-feeders, and feed storage buildings.
- 39079 HART, F. H. Operation of agitated-air incubators. *Australas. Poultry World* 22(6):25,27. (To be cont.) Jan.1,1951. 47.8 Au72
- 39080 HEWETSON, R. W., and RUDDLE, R. P. An automatic feed hopper. *Queensland Agr. J.* 71:328-331. Dec.1950. 23 Q33  
Dairy cattle feeding equipment.
- 39081 IVANOV, A. A. Machines for feed preparation on the livestock raising farms. (In Russian.) *Sof'sialist. Zhivotnovod.* 12(10):79-83. Oct.1950. 49 So71
- 39082 KNIGHT, W. H. Electric brooding on the farm. *Idaho. Agr. Col. Ext. Farm Electr. L.* 9,4 p. Feb.15, 1950. 275.29 Id13Fa
- 39083 KUHN, L. Betrachtungen über das maschinenmelken. *Tech. f. Bauern u. Gärt. Ausg. A* 2:633-634. Nov.10,1950. 58.8 T223
- 39084 LIVRY, P. Aviculture: préparons la prochaine campagne d'élevage. *Acclimatation* 78:21. Jan.27,1951. 14 Ac2  
Preparation of incubators and other equipment.
- 39085 MALYSHEV, I. V. Mechanization on [livestock] farms of the collective farms in Leningrad Region. (In Russian.) *Sof'sialist. Zhivotnovod.* 12(11):81-83. Nov. 1950. 49 So71
- 39086 THE MILKING machine. *Farm Q.* 6:36-40,127. Spring 1951. 6 F2295
- 39087 MILLER, J. P. There is no one best brooding system. *Co-op Chick News* 23:6-7. Jan./Mar.1951. 47.8 C783
- 39088 PIRAUX, E., and ANTOINE, A. Essais de désinfection des machines à traire. *Inst. Agron. et Sta. de Rech. de Gembloux. B.* 18(1/2):127-142. Ref. 1950. 105.1 G285  
English summary.
- 39089 POULTRY FARMER. Radiant heat hover wins the 'Poultry Farmer' profit cup. *Poultry Farmer [London]* 124(3211):12-13. Feb.16,1951. 47.8 F312  
Includes description of other poultry equipment.
- 39090 QUAIFE, E. L. Farrowing crates are saving pigs. *Successful Farming* 49(3):148,150-151. Mar.1951. 6 Su12
- 39091 RANDOLPH, C. Farrowing system; three men handle 500 sows with their litters. *Prairie Farmer, Gen. Ed.* 123(3):14-15. Feb.3,1951. 6 P883  
Chiefly equipment.
- 39092 RÖBEN, K. Fortschritte bei der maschinellen milch-gewinnung. *Tech. f. Bauern u. Gärt. Ausg. A* 2: 530-531. Sept.25,1950. 58.8 T223
- 39093 SOKOV, N. Mechanization of feed preparation [on collective farms]. (In Russian.) *Kolkhoz. Proizvodstvo* 10(9):36-37. Sept.1950. 281.8 K83
- 39094 STEPHENS, R. M. Devices for the dairy farm. *Victoria. Dept. Agr. J.* 49:30-34. Jan.1951. 23 V86J
- 39095 STEVENSON, J. H. F. Mink breeding nest box. *Brit. Fur Trade* 33:75. Feb.1951. 412.628 B77
- 39096 VASIUKOV, P. P. Mechanization of hard work in collective farm livestock production in Chkalov Region. (In Russian.) *Sof'sialist. Zhivotnovod.* 12(10):84-86. Oct. 1950. 49 So71
- 39097 WALUSZCZYK, B. Die entenbrut im motorbrüter. *Osterr. Kleintierzüchter* 1950:867-868. Dec. 1950. 49 Os7
- 39098 WASHINGTON. STATE COLLEGE. POULTRY COUNCIL. Brooding and brooding equipment for chicks. *Wash. State Col. Ext. B.* 360,14 p. Feb.1951. (Poultry Pointers 22, rev.) 275.29 W27Pou
- 39099 WASHINGTON. STATE COLLEGE. POULTRY COUNCIL. Turkey brooding and rearing equipment. *Wash. State Col. Ext. B.* 325,8 p. Dec.1950. (Poultry Pointers 16, rev.) 275.29 W27Pou



- 39100 WESTBROOK, F. A. Bulk handling. Milk Indus. 31:83-86. Feb.1951. 44.8 M593  
Equipment.
- 39101 WOLF, A. Was sagt man in Schweden von der melkmaschine? Deut. Landwirt. Presse 74:18. Jan.20, 1951. 18 D482

#### Cultivation and Tillage Equipment

- 39102 COLDWELL, T., and PECHANEC, J. F. An Australian stump-jump plow inspires a successful brush-land plow. Farm Impl. News 72(4):36-37.70,72-73. Feb.25,1951. 58.8 F22
- 39103 FRESE, H. Bodenbearbeitungsgeräte auf der 40. wanderausstellung der DLG. I-III. Tech. f. Bauern u. Gärt. Ausg. A 2:507-508,527-528.537. Sept.10-25,1950. 58.8 T223
- 39104 GROSSMAN, R. I. Devices for investigating the work of plowshares. (In Russian.) Sel'khoz mashina 1950 (12):12-15. Dec.1950. 58.8 Se42
- 39105 HARDY, E. A. What's wrong with tillage machines. West. Canad. Weed Control Conf. Proc. 3:171-174. Nov.30,1949. 79.9 W522
- 39106 KHVYLIA, K. S. Investigation of work of a disk colter. (In Russian.) Sel'khoz mashina 1950(10):8-12. Oct.1950. 58.8 Se42
- 39107 KÖTTGEN. Über einen neuen unkrautroder. Tech. f. Bauern u. Gärt. Ausg. A 3:40. Jan.25,1951. 58.8 T223
- 39108 LARTHE, R., and BARDI, G. Notre opinion sur la charrue semi-portée Bajac. J. de la France Agr. 7:1360. Feb.9/15,1951. 14 J829
- 39109 MCINTIRE, R. O. Adapting tools and equipment to line clearing use. Natl. Shade Tree Conf. West Chapter. Proc. 17:266-269. In Natl. Shade Tree Conf. Proc. 26. 1950. 99.9 N218
- 39110 REYNOLDS, P. A. Know your cultivator. Nurseryman & Seedsman 112:232-233. Jan.25,1951. 80 N933
- 39111 REYNOLDS, P. A. The trend of modern design. Nurseryman & Seedsman 111:1832-1833. Dec.21, 1950. 80 N933
- Horticultural cultivators.
- 39112 ROBINSON, C. What's new in beet machinery for spring work. Wash. Farmer 76:107,114. Feb.15,1951. 6 R151
- 39113 SAINT-QUENTIN, M. La houe-cyclette facilite les binages de la betterave dans les petites exploitations. Rustica 24:90-91. Feb.4,1951. 14 R92
- 39114 SEMENIUK, I. M., and VOVCHENKO, B. V. Testing cultivators with chrome-plated claws. (In Russian.) Sel'khoz mashina 1950(10):12-14. Oct.1950. 58.8 Se42
- 39115 WENDT. Motorbodenfräsen mit und ohne fahrtrieb. Tech. f. Bauern u. Gärt. Ausg. A 2:655-656. Nov.25,1950. 58.8 T223
- 39116 YOUARD, G. B. Mechanical hedge trimmers. Gt. Brit. Min. Agr. Agriculture 57:543-544. Feb.1951. 10 G79J

#### Fertilizer and Seed Distributors

- 39117 BARNARD, J. D. Equipment problems in fertilizing canning crops. Natl. Joint Comt. Fert. Appl. Proc. 26:70-71. 1950. 57.9 N216
- 39118 CULPIN, C. The machine and the yield. Farmers Wk. [London] 34(6):51,53. Feb.9,1951. 10 F2226
- Mechanical planting of potatoes in Great Britain.
- 39119 CUMINGS, G. A. Commercially available fertilizer distributing equipment - recent developments. Natl. Joint Comt. Fert. Appl. Proc. 26:24-30. 1950. 57.9 N216
- 39120 DANILEVICH, G. I. Digging up of seedlings and its mechanization. (In Russian.) Sel'khoz mashina 1950(9):19-20. Sept.1950. 58.8 Se42
- 39121 DUPONT, L. Motorisation agricole entretien et réglage du matériel. IV. Les semoirs à grains. Voix des Colons 32(1588):1,3. Dec.25,1950. 24 V85
- 39122 FRAPPA, C., and TEFORT, J. Poudreuses et poudrages agricoles. Madagascar. Insp. Gén. des Serv. Agr. B. Agr. 3(25/26):3-10. July/Aug.1950. 25 M26
- 39123 GOLYSHEV, L. S. Problems in designing fertilizer distributors with plate-like sowing attachments. (In Russian.) Sel'khoz mashina 1950(10):8-8. Oct.1950. 58.8 Se42

- 39124 GUELLE, C. E. The fertilizer application equipment manufacturer's problems in design. Natl. Joint Comt. Fert. Appl. Proc. 26:86-89. 1950. 57.9 N216
- 39125 HOOGLAND, E. J. A. The time for sowing machines is nearing. (In Dutch.) Drents. Landtbl. 32(6): 5. Feb.10,1951. 12 D812
- 39126 HOVELL, A. DE B. Machines for the grower. 1. A mushroom manure turner is born. Grower [London] 34:1269,1271. Dec.16,1950. 286.83 M34
- 39127 JONES, T. N. Inexpensive fertilizer distributor for small farms. Miss. Farm Res. [Miss. Sta.] 14(2):4. Feb.1951. 100 M69Mi
- 39128 KING, N. J. The evolution of the cane planter. Queensland. Bur. Sugar Expt. Sta. Cane Growers' Q. B. 14:47-54. Oct.1,1950. 65.9 Q3C  
Equipment.
- 39129 KOCH, W. Sprengen von baumlöchern. Obstbau 69:184-185. Dec.1,1950. 80 Ob73
- 39130 KORIAKINA, A. F., and ZHURUKHIN, F. A. How to readjust the grain sowing machines for seeding perennial grasses. (In Russian.) Selekt. i Semen. 17(10): 44-46. Oct.1950. 61.9 Se5
- 39131 KOSMACK, K. Maschinen für das "tiefumpflanzen." Tech. f. Bauern u. Gärt. Ausg. A 2:557-559. Oct.10,1950. 58.8 T223
- 39132 KRAEVOY, I. M. A transplanter for melons and other crops. (In Russian.) Sad i Ogorod 1950(12):57-59. Dec.1950. 80 Sa13
- 39133 KREMKUS. Geräte zur jauchedüngung. Tech. f. Bauern u. Gärt. Ausg. A 2:701-702. Dec.10,1950. 58.8 T223
- 39134 MAHONEY, C. H. Need for properly designed fertilizer placement equipment. Natl. Joint Comt. Fert. Appl. Proc. 26:67-69. 1950. 57.9 N216
- 39135 SCHAFFER, K. Leistungsfähige güllegeräte. Tech. f. Bauern u. Gärt. Ausg. A 2:689-691. Dec.10,1950. 58.8 T223
- 39136 SUMNER, D. C., and KEPNER, R. A. New planter for range seeding; drill-type planter developed for seeding rolling hill grazing land without seed bed preparation. Calif. Agr. [Calif. Sta.] 5(3):5,12,14. Mar. 1951. 100 C12Cag
- 39137 VOLKOV, P. Construction of tractor marker for kok-saghyz sowing. (In Russian.) Tekhsoveti MTS 11 (39/40):1-5. 1950. 58.8 T233
- 39138 WIEBE, G. Die handsämaschine und ihr säorgan. Tech. f. Bauern u. Gärt. Ausg. A 2:589-590. Oct.25, 1950. 58.8 T223
- 39139 ZHURUKHIN, F. A. Hand-operated drill. (In Russian.) Selekt. i Semen. 17(10):48-50. Oct.1950. 61.9 Se5  
For sowing legumes and grasses.

#### Harvesting Equipment

- 39140 BAKER ARKEMA, P. W. Mährescher in Holland. Landtechnik 6:52-55. Jan.31,1951. 58.8 L235
- 39141 BARATTE. L'arrachage mécanique des betteraves en 1950. Acad. d'Agr. de France. Compt. Rend. 36:613-614. Nov.15/22,1950. 14 P215Bc
- 39142 BERGLUND, N. Mährescher in Schweden. Landtechnik 6:55-57. Jan.31,1951. 58.8 L235
- 39143 BISNOVATYI, S. The gear of driving wheels of automotive S-4 combine. (In Russian.) Tekhsoveti MTS 11(43/44):1-16. 1950. 58.8 T233
- 39144 BOLLMANN. Der konstruktör von rüben-erntemaschinen. Landtechnik 6:71-73. Jan.31,1951. 58.8 L235
- 39145 BRENNER, W. Die mechanisierung der getreideernte; der mähdrusch in Westdeutschland. Landtechnik 6:49-51. Jan.31,1951. 58.8 L235
- 39146 DANILEVICH, S. IÜ. Adjustment of K-14A carburetor of Y-5MA combine engines. (In Russian.) Tekhsoveti MTS 11(39/40):14. 1950. 58.8 T233
- 39147 DENCKER, C. H. Mechanisierung der hackfruchternte; die entwicklung der kartoffelerntetechnik. Landtechnik 6:59-66. Jan.31,1951. 58.8 L235
- 39148 EHNROT, B. Sugar beet growing in 1950. (In Swedish.) Lantmannen 35:24-25. Jan.13,1951. 11 L234  
Chiefly on mechanical harvesting.
- 39149 EREMEEV, I. Triple-rowed SKEM-3 [sugar] beet harvesting combine. (In Russian.) Mashinno-Traktornaf. Sta. 10(9):26-33. Sept.1950. 58.8 M11  
Similar title in Sel'khoz mashina 1950(10):2-4. Oct. 1950. 58.8 Se42



39150 FREDERIKSEN, T. Dänemark technisiert die kartoffel-ernte. Landtechnik 6:68-70. Jan.31,1951. 58.8 L235

39151 GEILER, H. F. Erntemaschinen aus Zweibrücken. Tech. f. Bauern u. Gärt. Ausg. A 2:494-496. Sept.10,1950. 58.8 T223

39152 HEDGES, T. R. Mechanical cotton harvesting. Calif. Agr. [Calif. Sta.] 4(12):2,10. Dec.1950. 100 C12Cag

39153 KAPUSTIN, A. D. Manufacture of spindle of horizontal axle of SKSH cotton harvesting machine. (In Russian.) Sel'khoz mashina 1950(9):25-26. Sept.1950. 58.8 Se42

39154 KÖHNE, Wünsche der Landwirtschaft zur mechanisierung der kartoffelernte. Landtechnik 6:66-68. Jan.31,1951. 58.8 L235

39155 KORENENKO, E. Correct organization of mechanized harvesting of sugar beets. (In Russian.) Mashinno-Traktornaya Sta. 10(9):38-40. Sept.1950. 58.8 M11

39156 KRANICK, F. N. G. How dairy farmers save straw; Wisconsin adapts forage harvester. Impl. Rec. 48:19,58. Jan.1951. 58.8 Im73

39157 LOY, L. G. VAN. Quelques arracheuses-ensacheuses de pommes de terre de construction belge. Rev. de l'Agr. 4:3-38. Jan.1951. 13 R322  
English summary.

39158 MATER, E. A. Implements for stubble shaving badly harvested cane. Sugar J. 13(9):16-17. Feb.1951. 65.8 Su391

39159 NOHE, E. Die verwendung des motormähers in feldversuchen. Tech. f. Bauern u. Gärt. Ausg. A 2:561-563. Oct.10,1950. 58.8 T223

39160 PODLIPENSKI, S. IA. Four-plank reel for harvesting lodged cereals. (In Russian.) Sel'khoz mashina 1950(9):17-18. Sept.1950. 58.8 Se42  
Attachments to combines.

39161 RADZIEVSKI, I. Attachment for checking the oscillatory shafts in combines. (In Russian.) Mashinno-Traktornaya Sta. 10(9):61. Sept.1950. 58.8 M11

39162 SABLKOV, M. V. Removal of raw cotton from the continuously rotating axles [of cotton harvesting machines]. (In Russian.) Sel'khoz mashina 1950(10):18-19. Oct.1950. 58.8 Se42

39163 SEGLER, G. Die mechanisierung der rauh-futterernte; rauhfutterernte-technik. Landtechnik 6:35-41. Jan.31,1951. 58.8 L235

39164 SHTANKO, M. G., and GORDIENKO, S. IA. Development of new technological process for assembling the hopper of Stalinets-6 combine. (In Russian.) Sel'khoz mashina 1950(10):20-22. Oct.1950. 58.8 Se42

39165 SIMBRIGER, F. Die arbeitswirtschaftlich richtig mechanisierte zuckerrüben-ernte. Landtechnik 6:71. Jan.31,1951. 58.8 L235

39166 SIMBRIGER, F. Bindemähen von lagergetreide. Tech. f. Bauern u. Gärt. Ausg. A 2:598-599. Oct.25,1950. 58.8 T223

39167 WALLACE, J. G. Overhauling your motor lawnmower. Gard. Illus. 68:39-40. Feb.1951. 80 G169

#### Land Clearing Equipment

39168 JULIA, H. Premiers résultats de la mécanisation des travaux de défrichement sur forêt dense. Oléagineux 6:137-141. Mar.1951. 77.8 OL2

In order to plant African oilpalms.

39169 MACBRIDE, J., and others. Mechanised land clearing; a survey of four years' experience in Tanganyika. World Crops 3:89-94. Mar.1951. 281.8 W892  
J. E. Capell, W. Cathie, D. R. Kaufmann, and A. H. Bunting, joint authors.

39170 MILLER, K. G. Western Washington's roadside brush controlled by a heavy-duty brush mowing machine. West. Constr. 26(3):78-79. Mar.1951. 290.8 W522

#### Processing Equipment Used on the Farm

39171 APPLETON, A. F. Milk cooling and coolers. Milk Indus. 31:49-56. Feb.1951. 44.8 M593

39172 BLAUSER, I. P. Cooling maintains egg quality. Elect. Farm 24(2):14-15. Feb.1951. 335.8 EL27  
Equipment.

39173 CALHOUN, J. L. Farmer dries baled hay, crop driers are here to stay. They can be used for hay and grain crops too. South. Planter 112(2):20-21. Feb. 1951. 6 So89

39174 CHERNYKH, S. D. A movable drier for seed corn on the cob, peanuts and other loosely packed products. (In Russian.) Sel'khoz mashina 1950(12):8-9. Dec. 1950. 58.8 Se42

39175 FATH, A. Der "billige einmann-drescher" keine Utopie! Tech. f. Bauern u. Gärt. Ausg. A 3:51-52. Jan.25,1951. 58.8 T223

39176 FATH, A. Konstruktions-aufgaben im dreschmaschinenbau. Tech. f. Bauern u. Gärt. Ausg. A 2:529-530. Sept.25,1950. 58.8 T223

39177 FROLOV, L., and SAVINSKI, G. Use of grain-benches in preliminary cleaning of freshly-harvested grain. (In Russian.) Tekhsoveti MTS 11(27/28):1-9. 1950. 58.8 T233

39178 GORANSKI, V. A. Determining the speed of seed movement in the conical drum of flax and clover seed cleaning machines. (In Russian.) Sel'khoz mashina 1950(9):15-16. Sept.1950. 58.8 Se42

39179 HARDY, E. A., and MOYSEY, E. A farm grain dryer. Country Guide 70(2):54-55. Feb.1951. 7 G76

39180 HUISMAN, M. H. Effect of preliminary drying on the capacity of some driers. (In Dutch.) Netherlands. Landvoorzichtingsdienst. Maandbl. 7:480-489. Nov.1950. 12 N383M

39181 HUMBERT, W. La conservation des fourrages par la deshydratation. Bétail & Basse-Cour 6:26-27,78-79. Jan.-Feb.1951. 49 B462

39182 IVANOV, A. A. Machines for grinding and milling of feeds [on collective farms]. (In Russian.) Softsiatist. Zhivotnovod. 12(11):84-87. Nov.1950. 49 So71

39183 IVANOV, A. A. Silage cutters and silage straw cutters. (In Russian.) Softsiatist. Zhivotnovod. 12(9):83-87. Sept.1950. 49 So71

39184 JONG, G. DE, and SWART, J. L. B. Technical and financial results of grass drying in 1949. (In Dutch.) Netherlands. Landvoorzichtingsdienst. Maandbl. 7:494-502. Nov.1950. 12 N383M

39185 KÖSTLIN, A. Das häckselverfahren. Landtechnik 6:41-47. Jan.31,1951. 58.8 L235

39186 LUNDSTRÖM, T. Homemade grain dryer. (In Swedish.) Lantmannen 35:143-145. Feb.24,1951. 11 L234

39187 PETERSEN, N. Maschinen zur grastrocknung. Tech. f. Bauern u. Gärt. Ausg. A 2:625-627. Nov.10,1950. 58.8 T223

39188 PRESCOTT, T. Modern hay making. Farm Q. 6:68-71,84,86,88,90. Spring 1951. 6 F22995

39189 RIES, L. W. Nochmals: konstruktionsaufgaben im dreschmaschinenbau der billige einmann-drescher als nächstes ziel. Tech. f. Bauern u. Gärt. Ausg. A 2:596-597. Oct.25,1950. 58.8 T223

39190 SCHREIBER, R. Neue forschungsergebnisse der elektrizitätsverwertung in der landwirtschaft. Landwirt. Jahrb. f. Bayern 27(7/8):29-35. Nov./Dec.1950. 18 L24

In grass drying.

39191 SEREBRIAKOV, S. MKS-1100 thresher for threshing forage plants grown for seed. (In Russian.) Mashinno-Traktornaya Sta. 10(9):34-37. Sept.1950. 58.8 M11

Clover and alfalfa.

39192 SKEPPER, A. H., and DAVISON, J. R. Types of dehydrators. Agr. Gaz. N. S. Wales 61:625-630,655. (To be cont.) Dec.1,1950. 23 N472  
Dehydration of fruit.

39193 THEBIS, R. Unfallschutz bei dreschmaschinen und strohpressen überprüfen! Tech. f. Bauern u. Gärt. Ausg. A 2:535-536. Sept.25,1950. 58.8 T223

#### Repair, Maintenance, and Construction Equipment

39194 BJERNINGER, S. News on rust protection for agricultural machines. (In Swedish.) Lantmannen 35:125-125. Feb.17,1951. 11 L234

39195 BRICKWOOD, H. The art of soldering. Power Farmer 6(3):49-50. Mar.1951. 58.8 P872

39196 HINE, H. J. Farm repairs of machinery. Gt. Brit. Min. Agr. Agriculture 57:542-543. Feb.1951. 10 G79J

39197 JOHANSSON, T. Care of machinery and equipment is important. (In Swedish.) Lantmannen 35:132. Feb.17,1951. 11 L234

39198 KUGLER, H. L. Electric welding or cutting with safety. Farm Safety Rev. 9(2):4-5. Mar./Apr.1951. 449.8 F22



- 39199 MACHWIRTH, O. Landmaschinenpflege und schmierung. Bas-Rhin. Agr. 6:67. Feb.10,1951. 14 B29
- 39200 MOWERY, A. S., BRESSLER, G. O., and SPRAGUE, D. C. A mechanical cleaner for poultry droppings pits. Pa. Agr. Expt. Sta. Prog. Rpt. 37,4 p. Oct. 1950. 100 P381P
- 39201 ZANNONI, I. Preservation of agricultural machines and equipment. (In Italian.) Colt. e Gior. Vinic. Ital. 96:319-321. Nov.30,1950. 16 C72

#### Spraying and Dusting Equipment

- 39202 AKESSON, N. B. Calibration of the agricultural pest control aircraft sprayer and duster. Calif. Dept. Agr. B. 40:21-26. Jan./Mar.1951. 2 C12M
- 39203 ANDERSON, E. Here are up-to-the-minute uses for sprayers and dusters. Better Farming Methods 23(3):36,38-39. Mar.1951. 58.8 B46
- 39204 DREES, H. Nebelgeräte im pflanzenschutz. Gesunde Pflanzen 2:87-88. Apr.1950. 464.8 G33
- 39205 DREES, H. Neues über pflanzenschutzgeräte. Gesunde Pflanzen 2:10-11. Jan.1950. 464.8 G33
- Spraying equipment.
- 39206 EDWARDS, F. E. Machines adapted for use in chemical weed control. Miss. Farm Res. [Miss. Sta.] 14 (2):1-3. Feb.1951. 100 M69Mi
- 39207 GEMEREN, P. VAN. The automotive motor sprayer. (In Dutch.) Groenten en Fruit 6:461. Dec.21, 1950. 80 G89
- 39208 BOSCH, L. Pflanzenschutzgeräte. Gesunde Pflanzen 2:230-232. Sept.1950. 464.8 G33
- Spraying and dusting equipment.
- 39209 KEMMER, W. Nebelblaser aus der Schweiz. Tech. f. Bauern u. Gärt. Ausg. A 2:669. Nov.25,1950. 58.8 T223
- 39210 KOTTE, W. Der "atomiseur Vermorel" eine französische gebläsespritze. Gesunde Pflanzen 2:179-181. July 1950. 464.8 G33
- 39211 LÜTT, O. Pflegt die pflanzenschutzgeräte! Gesunde Pflanzen 2:266-267. Oct.1950. 464.8 G33
- Sprayers and dusters.
- 39212 PAGE, G. E. Weed spraying equipment. Oreg. Agr. Expt. Sta. B. 493,24 p. Jan.1951. 100 Or3
- 39213 PUSHIN, F. E. Operation of mixers in sprayers. (In Russian.) Sel'khoz mashina 1950(9):20-22. Sept.1950. 58.8 Se42
- 39214 SLAWSON, H. H. Dealers can spread the gospel of efficient use of herbicides; research developing chemical sprays and applicators that meet farm requirements. Farm Equip. Retailing 11(2):40 A,85-86,88. Feb. 1951. 58.8 F2292
- 39215 WEINMEISTER, B. Die Rosenbauer pflanzenschutz-motorspritze type "DK 200 F." Landwirtschaft 1950:293-294. Oct.1950. 19 L235
- 39216 WENHARDT, A. What's wrong with sprayers and dusters. West. Canad. Weed Control Conf. Proc. 3: 117-121. Nov.30,1949. 79.9 W522

#### Vehicles

- 39217 AMPHOUX, R. Le tracteur doit être une véritable machine agricole. 3. Prog. Agr. et Vitic. 1951: 94-97. Feb.18/25,1951. 14 P94
- 39218 ANDRIANOV, P. Self-sealing rubber drip pans for the reducing gear of S-80 tractor's transmission. (In Russian.) Mashinno-Traktornafä Sta. 10(9):50-51. Sept. 1950. 58.8 M11
- 39219 AUGUSTINSON, L. Tractor purchase. (In Swedish.) Lantbrtidskr. f. Dalarna 1950:170-173. Oct. 1950. 11 L29
- 39220 AUTOMOTIVE INDUSTRIES. 33rd annual statistical issue. Auto. Indus. 104(6),435 p. Mar.15,1951. 291.8 Au82
- Includes farm tractors.
- 39221 AVERY, J. M. Trailer makes garden tractor more useful. Pop. Sci. Mon. 158(3):241-242. Mar.1951. 470 P81
- 39222 BARATTE, J. Réflexions sur le choix d'un tracteur agricole. Acad. d'Agr. de France. Compt. Rend. 36:651-652. Nov.29/Dec.6,1950. 14 P215Bc
- 39223 BJERNINGER, S. Laboratoriemässiga vagnundersökningar. [Laboratory trials of farm wagons]. Jordbrtek. Inst. Meddel. 231,67 p. Ref. 1950. 58.9 J762
- English summary.
- 39224 BUZULUKOV, P. A. Regulirovka karbfüratorov i tarirovka zhiklërov [Regulation of carburetors and calibration of jet tubes]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 84 p. 58 B98
- 39225 CASTLE, L. Tractor conversion to LP-gas off to fast start. Natl. Petrol. News 43(8):53-56. Feb.21, 1951. 307.8 P44
- 39226 COCHRANE, R. H. Check these points in your tractor fuel system at regular intervals. New Zeal. Dairy Exporter 25(12):42,44,54. June 1950. 44.8 N484
- 39227 COMBAL, H. Puissance des tracteurs agricoles. Voix des Colons 33(1593):2-3. Jan.29,1951. 24 V85
- Tests.
- 39228 COOPER, L. J. Spindletop discovery set the stage for today's agricultural progress. Gulf Coast Cattleman 16(11):7-8,10. Jan.1951. 43.8 G95
- Petroleum as source of farm power.
- 39229 CROWE, G. B. Tractor machinery: costs and performance. Miss. Agr. Expt. Sta. C. 157,7 p. Jan.1951. 100 M69
- 39230 DELASNERIE, J. Le jumelage des roues arrière, peut-il concurrencer la chenille? Culture 25:4-7. Jan.1951. 14 C894
- 39231 FISCHER, Die tatsächlichen verhältnisse. Landtechnik 6:102-103. Feb.15,1951. 58.8 L235
- Tractor statistics.
- 39232 FROMMANN, H. Düngerstreuen mit dem schlepper. Tech. f. Bauern u. Gärt. Ausg. A 2:685-686. Dec.10,1950. 58.8 T223
- 39233 GARDEN tractors. Farm Q. 6:50-51,91-92,94, 96,98,100. Spring 1951. 6 F22995
- 39234 GIENGER, G. W. Here's how to hold a tractor operators contest. Agr. Leaders' Digest 32(3):14-16. Mar.1951. 275.28 Am3
- 39235 GOLUBEV, N. A. KHTZ-7 orchard and garden tractor. (In Russian.) Sad i Ogorod 1950(11):24-25. Nov. 1950. 80 Sa13
- 39236 GRADOV, B. I. DT-54 Diesel tractor. (In Russian.) Lesn. Khoz. 3(7):64-65. July 1950. 99.8 L5622
- 39237 HJULSTAD, O. Oils for tractors. (In Norwegian.) Landbrukstidende 56:970-971. Dec.6,1950. 11 L236
- 39238 HÖCHSTETTER. Die schleppergemeinschaft — ein weg zur motorisierung der bäuerlichen kleinbetriebe. Tech. f. Bauern u. Gärt. Ausg. A 2:662-663. Nov.25,1950. 58.8 T223
- 39239 HULL, D. O. Tips on buying motor oil; the average tractor uses 40 gallons of motor oil a year; here is how to select right motor oil for your needs. Hoard's Dairyman 96:204,212-213. Mar.10,1951. 44.8 H65
- 39240 JONES, F. R. Systematic tractor maintenance. Humble Farm Family 7(8):14. Jan.1951. 6 F233
- 39241 KLIEFOTH, F. Angaben über die schlepperleistung. Tech. f. Bauern u. Gärt. Ausg. A 2:654. Nov. 25,1950. 58.8 T223
- 39242 KÖNIG. Umgang mit einspritzdüsen. Tech. f. Bauern u. Gärt. Ausg. A 2:631-632. Nov.10,1950. 58.8 T223
- 39243 KOZLOV, A. Assembly line method of engine repair. (In Russian.) Mashinno-Traktornafä Sta. 10(9): 56-57. Sept.1950. 58.8 M11
- 39244 KRIEBEL, M. Der 50000. Deutz-schlepper. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:237. Feb. 15,1951. 18 L2346
- 39245 KRIEBEL, M. Der schleppereinsatz in Westfalen-Lippe. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:239. Feb.15,1951. 18 L2346
- Statistics.
- 39246 KRIEBEL, M. Der schlepperreichste kreis in Westfalen-Lippe. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:317. Mar.1,1951. 18 L2346
- Statistics.
- 39247 KULKARNY, B. Y. Use of a tractor. Poona Agr. Col. Mag. 41:180-184. Nov.1950. 22 P79
- 39248 KVAAL, L. Observations on loading equipment for tractors. (In Norwegian.) Norsk Landbr. 17:27-30. Jan.19,1951. 11 N8122
- 39249 LARIONOV, G., and KAPLUN, S. Production planning in machine-tractor workshops. (In Russian.) Soöialist. Sel'sk. Khoz. 21(10):51-56. Oct.1950. 281.8 So73
- Repair of tractors and machines at machine-tractor stations.
- 39250 LAURENT, R. Pour la première fois au Maroc un hélicoptère ("le Hiller 360") est mis au service de l'agriculture. Inform. Marocaine 523:1,4. Jan.20,1951. 281.8 In3
- 39251 LEVITSKIÏ, I. Repair of small heads of automobile and tractor engines. (In Russian.) Mashinno-Traktornafä Sta. 10(9):57-58. Sept.1950. 58.8 M11



- 39252 LYSEBRÅTE, K. Agricultural wagons on wheels; results of Swedish investigations. (In Norwegian.) Norsk Landbr. 17:46-48. Feb.2,1951. 11 N8122
- 39253 MARCHAL, H. L'industrie française des tracteurs et motoculteurs. Marseille. Inst. Colon. Cahiers Colon. 1950:411-412. Dec.1950. 286.8 M35  
Also in Marchés Colon. 7:498-499. Feb.17,1951. 286.8 M33
- 39254 MEISSNER, F. Dutch "jeep" their troubles away. News Farmer Coop. 17(12):8,13. Mar.1951. 166.2 N47
- Milking cooperatives in Holland with the mechanical milker transported from farm to farm on a jeep.
- 39255 MERENKOV, L. Improvement of oil filtration in KDM-46 engines. (In Russian.) Mashinno-Traktornafä Sta. 10(9):43-45. Sept.1950. 58.8 M11
- 39256 MUNDE. Treckeritis—eine zelterscheinung. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:161-162. Feb.1,1951. 18 L2346
- 39257 NAZAROV, A. Filters for fine clearing of oils on automobile engines. (In Russian.) Tekhsovet MTS 11 (39/40):6-10. 1950. 58.8 T233
- 39258 NEBRASKA UNIVERSITY. DEPT. OF AGRICULTURAL ENGINEERING. Summary of results of the Nebraska tractor tests. Nebr. Agr. Expt. Sta. B. 397 (sup.), folder. Jan.1,1951. 100 N27
- 39259 OBST, K. Anlassen des schleppers in winter. Tech. f. Bauern u. Gärt. Ausg. A 2:655. Nov.25,1950. 58.8 T223
- 39260 OZERSKIĬ, A. Adjustment of the centrifugal automatic clutch of Kirovets D-35 tractor. (In Russian.) Tekhsovet MTS 11(39/40):15-16. 1950. 58.8 T233
- 39261 PALTI, J., and ELLERN, S. J. One year's agricultural aviation in Israel. World Crops 3:104-105. Mar.1951. 281.8 W892
- 39262 PICARD, R. Comment déterminer les conditions de travail d'un tracteur. Culture 25:16-20. Jan. 1951. 14 C894
- 39263 POPIRAKO, S. Causes of premature wearing away of some units and parts of S-80 tractor. (In Russian.) Mashinno-Traktornafä Sta. 10(9):46-48. Sept. 1950. 58.8 M11
- 39264 RADINA, M. M. How to unload a truck in one or two minutes. (In Russian.) Selekt. i Semen. 17(10):57-66. Oct.1950. 61.9 Se5
- 39265 RAGUENAU, L. Progrès agricole et carburant. Génie Rur. 44:65. Feb.1951. 58.8 Au8
- 39266 REISCHLE, H. Der elektrokarren als mehrzweck-transporter. Tech. f. Bauern u. Gärt. Ausg. A 3: 40-42. Jan.25,1951. 58.8 T223
- 39267 RUDOLF, K. Zur verwendung von traktoren in schweizerischen bauernbetrieben. Schweiz. Bauer 105(11):1-2. Jan.26,1951. 17 Sch95
- 39268 SAIÄPIN, V. I. Evaluation of traction characteristics of caterpillar tractors by the aid of specific parameters. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(10):42-48. 1950. 20 Ak1
- 39269 SAMUELSON, M. J. LP-gas versus gasoline as tractor fuel. Impl. & Tractor 66(3):36-37,44,86-87. Feb.3,1951. 58.8 W41
- 39270 SCOTTON, M. How the tractor operates. (In Italian.) Terra e Sole 102:41-43. Feb.1951. 16 T273
- 39271 SENFTLEBEN. Die ansteckraupe bei der hackfruchternte. Tech. f. Bauern u. Gärt. Ausg. A 2:657. Nov.25,1950. 58.8 T223
- 39272 SHATILOV, V., and ZHARKOV, V. Repair of rollers of Kirovets D-35 tractor. (In Russian.) Tekhsovet MTS 11(39/40):11-13. 1950. 58.8 T233
- 39273 SHESTOPALOV, I. Simplified roller of oil-pump drive. (In Russian.) Mashinno-Traktornafä Sta. 10(9):49-50. Sept.1950. 58.8 M11
- S-80 tractor.
- 39274 SOBOLEV, I. Repair of camshafts. (In Russian.) Mashinno-Traktornafä Sta. 10(9):60. Sept. 1950. 58.8 M11
- In tractor engines.
- 39275 SOLOVECHNIK, A. Diesel DT-54 tractor. (In Russian.) Mashinno-Traktornafä Sta. 10(9):20-26. Sept. 1950. 58.8 M11
- 39276 STEFANELLI, G. La situation de l'industrie italienne des tracteurs. Culture 25:22-23. Jan.1951. 14 C894
- 39277 VASILENKO, P. M. Theory of the rolling wheel and its track. (In Russian.) Sel'khoz mashina 1950 (9):11-15. Sept.1950. 58.8 Se42

39278 VORONOV, P. How to align the coaxial shaft of the friction clutch in caterpillar tractors with small cylindrical gear pinions. (In Russian.) Mashinno-Traktornafä Sta. 10(9):58-59. Sept.1950. 58.8 M11

39279 ZARETSKIĬ, B. I. Traktory: ustroistvo i rabota [Tractors: maintenance and repair]. Moskva, Gos. Nauch.-Tekhn. Izd-vo Mashino-Stroitel'noi Lit-ry, 1950. 135 p. 291 Z12

39280 ZIL'BERMINTS, L. Use of antiknock in a reversible engine system. (In Russian.) Mashinno-Traktornafä Sta. 10(9):41-43. Sept.1950. 58.8 M11

39281 ZONDLER, C. Vorbereitungen für ein schleppergeschicklichkeitsfahren. Bad. Landwirt. Wchnbl. 118: 39. Jan.20,1951. 18 B142

## FARM STRUCTURES AND RURAL HOUSING

39282 DALE, A. C. The effect of roofing materials on temperatures in farm buildings. Iowa State Col. J. Sci. 25:191-194. Jan.1951. 470 Io9

Abstract of thesis (Ph. D.).

39283 EMEL'IANOV, I. Construction [of buildings] on Timiriazev Collective Farm [in Gorki Region]. (In Russian.) Sel'sk. Stroitel' 5(5):4-6. Sept./Oct.1950. 296.28 Se4

39284 GONZALEZ ARROYO, S. Normas sobre construcciones rurales. Agricultura [Madrid] 20(225):6-9. Jan.1951. 15 Ag84

39285 HOLMQVIST, N. Wood-saving constructions of service buildings. (In Swedish.) Ladugården 1950:315-316. Oct.1950. 44.8 L12

39286 KIRSTEIN. Zur gestaltung landwirtschaftlicher gebäude. II. Tech. f. Bauern u. Gärt. Ausg. A 2:499-501. Sept.10,1950. 58.8 T223

39287 MAKI, A. Maatalouden rakennusoloista Suomea V. 1938. Building conditions on farms in Finland in 1938. Finland. Metsätieteellisen Tutkimuslaitoksen. Julkaisu. 37(5),184 p. Ref. 1949. 99.9 F493

English summary.

39288 REINALDA, L. Construction of farm buildings in the present time. (In Dutch.) Friesch Landtbl. 48:22. Jan.12,1951. 12 F91

39289 TREIEROV, S. On the consolidated Voroshilov Collective Farm. (In Russian.) Sel'sk. Stroitel' 5(5):6-7. Sept./Oct.1950. 296.28 Se4

Building construction.

39290 ZUEV, S. Collective farm [building] construction brigade. (In Russian.) Kolkhoz. Proizvodstvo 10(9): 39. Sept.1950. 281.8 K83

## Animal Shelters and Animal Service Buildings

39291 ALONI, A. On sheds for cows in the Old Settlements. (In Hebrew.) Hassadeh 31:37-38. Oct.1950. 26 H27

39292 BACKHAUSEN. Das selbstgebaute gesunde hühnerhaus. Tech. f. Bauern u. Gärt. Ausg. A 2:667-668. Nov.25,1950. 58.8 T223

39293 BEELER, M. N. Feed cattle in 30 minutes. Capper's Farmer 62(4):15,44. Apr.1951. 6 M693

Farm buildings and chore equipment.

39294 BEHN, E. E. This hog house lets you cut your hog chores in half. Successful Farming 49(3):118,120. Mar.1951. 6 Su12

39295 BONFIELD, J. P. Save work, time and money with a one-story barn. Business Farming 10:11. Jan. 1951. 6 B96

39296 BRANDNER, S. New house simplifies care of breeding birds. Kans. Agr. Student 27(2):24. Dec.1950. 276.8 K13

39297 CALVERT, W. A., JR. Fresh air for the dairy stable. Del. U. Agr. Ext. Folder 18,6 p. Jan.1950. 275.29 D37W

39298 CLARK, M. Ventilating a basement barn. Kraftsman, Prod. Ed. 8(6):8. Nov./Dec.1950. 44.8 K85

39299 DEAN, A. L. Houses and equipment. All-Pets Mag. 22(2):58. Feb.1951. 48.8 AL5

For Bantams.

39300 DICKINSON, H. Increasing the size saved time and labor in this well-planned dairy barn. Successful Farming 49(3):106. Mar.1951. 6 Su12

39301 DRUETTO, E. A. Construcciones para ordeño. Argentina. Min. de Agr. y Ganad. P. Misc. 345,27 p. 1951. 9 P943

Designs.



- 193302 ELGAR, N. E. B. Experiments on the ventilation of cattle byres. *Country Landowner* 2:18. Feb. 1951. 10 C836
- 193303 FRIEDBERGER, K. Elektrizität am hühnerstall. *Tech. f. Bauern u. Gärt. Ausg. A* 2:636-637. Nov. 10, 1950. 58.8 T223
- 193304 GOETZ, K. Welche stallfenster sind zweckmässig? *Tech. f. Bauern u. Gärt. Ausg. A* 2:501. Sept. 10, 1950. 58.8 T223
- 193305 GOVIN, L. 'La stabulation libre. *Bétail & Basse-Cour* 5:476. Dec. 1950. 49 B462  
Dairy cattle.
- 193306 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. The milking parlour; a summary of modern practice. *Gt. Brit. Min. Agr. & Fisheries. L.* 5,15 p. May 1950. 10 G7944
- 193307 HALVORSEN, E. Remodeling of old barns. (In Norwegian.) *Norsk Landbr.* 17:32-33. Jan. 19, 1951. 11 N8122
- 193308 HARRINGTON, W. C. How to build strong poultry houses. *Everybodys Poultry Mag.* 56(3):9,23-24. Mar. 1951. 47.8 F213P
- 193309 HARRINGTON, W. C. What's wrong with poultry housing? Windstorms seem to single out poultry houses instead of other farm buildings. *Everybodys Poultry Mag.* 56(3):8,42-44. Mar. 1951. 47.8 F213P
- 193310 HEIZER, E. E. Should you change to loose housing? You won't cut feed costs, building costs or get cleaner milk, says this expert. But you will slice chore time. *Wis. Agr. & Farmer* 78(6):9. Mar. 17, 1951. 6 W751
- 193311 IBRAHIM, A. A. Use of heat exchangers in the ventilation of animal shelters. *Iowa State Col. J. Sci.* 25:254-257. Jan. 1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 193312 ITTNER, N. R., and KELLY, C. F. Cattle shades. *J. Anim. Sci.* 10:184-194. Feb. 1951. 49 J82
- 193313 KIRICHENKO, G. A. Construction [of livestock buildings] and mechanization on the farms of the Leningrad State Breeding Station. (In Russian.) *Sotsialist. Zhivotnovod.* 12(10):87-90. Oct. 1950. 49 So71
- 193314 KOSMACK, K. Gute stallungen steigern die viehleistung. *Tech. f. Bauern u. Gärt. Ausg. A* 2:737. Dec. 25, 1950. 58.8 T223
- 193315 KRUSE, B. H. Big hog houses produce better hogs, larger profits. *Successful Farming* 49(3):16. Mar. 1951. 6 Su12
- 193316 LABLANCHY, A. Premières réalisations françaises de stabulation libre. *J. de la France Agr.* 7:1357,1361. Feb. 9/15, 1951. 14 J829  
Dairy cattle.
- 193317 L'AMENAGEMENT intérieur du poulailler. *J. de la France Agr.* 7:1341. (Cont.) Jan. 26/Feb. 1, 1951. 14 J829
- 193318 LESTER, J. Lambing yard setup; care, cleanliness, convenience contribute to 135% lamb crop. *Mont. Farmer-Stockman* 38(10):31. Jan. 15, 1951. 6 M764
- 193319 MCHENRY, S. How do heating systems compare? *Broiler Growing* 2(3):12-13, 30, 32. Mar. 1951. 47.8 B782
- 193320 O'BRIEN, H. R. Better housing for pigs; if your hog chores seem long and tiresome, study these ideas used by other practical hogmen to save time and work and produce more pork at marketing time. *Country Gent.* 121(3):23,130-131. Mar. 1951. 6 C833
- 193321 OELMANN, V. Vom wert der dänischen aufstallung im schwelne stall. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:123-124. Jan. 25, 1951. 18 L2346
- 193322 PFUND, J. Dairying in this atomic age. *Val. Farmer* 1(12):8,25. Mar. 1951. 6 V244  
Housing and milking parlors.
- 193323 POWELL OWEN, W. Appliances at "the ready"; once the rearing season is under way the chicks' quarters must anticipate their arrival. *Poultry World* 88:192-193. Mar. 1, 1951. 47.8 P8682
- 193324 RISENG, P. Walls in barns. (In Norwegian.) *Norsk Landbr.* 17:67-68. Feb. 16, 1951. 11 N8122
- 193325 SANCTUARY, W. C. The poultry house of the future. *New Eng. Homestead* 124(3):8,20-21. Feb. 10, 1951. 6 N442
- 193326 SAWIN, P. B. A new type of hutch construction. *Amer. Small Stock Farmer* 35(6):4,17. Mar. 1951. 48.8 J82
- 193327 SCHRODER, G. Kleine winke für den bastelnden geflügelhalter. IV. *Deut. Wirtgeflügelzucht*, 3:170-171. Jan. 13, 1951. 47.8 D483  
Ventilation.
- 193328 SERFONTEIN, P. J. The manure-pit system for poultry houses. *Farming So. Africa* 26(298):23-24. Jan. 1951. 24 So842
- 193329 STERE, J. B. Give your cows plenty of fresh air with draft free ventilation. *Kraftsman, Prod. Ed.* 8(6):6-7. Nov./Dec. 1950. 44.8 K85
- 193330 TISHKOVA, E., and SHUMKO, D. Open hog-houses of the southern type [U.S.S.R.]. (In Russian.) *Mfashnafa Indus. SSSR.* 21(4):63-64. July/Aug. 1950. 50.8 M58
- 193331 WESTERBERG, K. W. Building a dairy barn? *Stock & Dairy Farmer* 38(10):3-4. Feb. 1951. 6 N8195

## Farmhouses and Farmsteads

- 193332 ALBRECHT, R. Blame the housing, is it at its worst in the Cornbelt? What does the hired man's wife think? *Prairie Farmer, Gen. Ed.* 123(4):6. Feb. 17, 1951. 6 P883
- 193333 ALBRECHT, R. Can housing costs be kept down? Some say yes. *Prairie Farmer, Mich. Ed.* 123(5):6. Mar. 3, 1951. 6 P883A  
Small farmhouses.
- 193334 BARILL, P. The farmhouse. (In Italian.) *Terra [Firenze]* 62(3):3. Jan. 21, 1951. 16 T274  
Italy.
- 193335 BLANCHARD, M. Arts ménagers ruraux 1951. *Agr. Prat.* 115:24. Jan. 1951. 14 J82  
Display of model houses in France.
- 193336 BRANN, D. R. Add a wing; do you need an extra bedroom? Want to modernize an old house? *Country Gent.* 121(3):36,117. Mar. 1951. 6 C833
- 193337 HINCHCLIFF, K. Help farmers remodel their farm house into a better home. *Better Farming Methods* 23(3):16,18. Mar. 1951. 58.8 B46
- 193338 HOWARD, A. E. The site and erection of a farm house on Kangaroo Island. *So. Austral. Dept. Agr. J.* 54:200-201. Nov. 1950. 23 So84
- 193339 MCNAB, E. G. Field survey of [rural] housing in Vincent County. *New Zeal. J. Agr.* 81:573-575,577. Dec. 15, 1950. 23 N48J
- 193340 NOYES, H. Storage for your home. *Wash. State Col. Ext. B.* 436,15 p. Feb. 1951. 275.29 W27P
- 193341 SERS, J. L'aménagement pratique du logis rural. *Rustica* 24:67,69. Jan. 28, 1951. 14 R92  
France.
- 193342 STARZHINSKIY, A. Quarters of a tractor brigade on a consolidated farm. (In Russian.) *Mashinno-Traktornafa Sta.* 10(9):10-11. Sept. 1950. 58.8 M11
- 193343 UNITED NATIONS. SECRETARIAT. DEPT. OF SOCIAL AFFAIRS. Survey of problems of low cost rural housing in tropical areas; a preliminary report with special reference to the Caribbean area. *New York, 1950. 93 p. Ref. (United Nations, [Doc.] ST/SOA/2)* 296.2 Un392

## Greenhouses and Plant Service Buildings

- 193344 ADAMS, M., and TURNER, M. Uses of lath-houses and their construction. *Calif. Hort. Soc. J.* 12:42-45. Jan. 1951. 81 C1293
- 193345 ALEKSANDROV, S. V. What is the section of hotbeds and greenhouses to be like on the consolidated vegetable growing collective farm. (In Russian.) *Sad i Ogorod* 1950(12):44-47. Dec. 1950. 80 Sa13  
Layouts.
- 193346 ASHTON, J. Water and coke seems an expensive form of heat. *Grower [London]* 35:222-224. Feb. 3, 1951. 286.83 M34  
In greenhouses.
- 193347 CAMPBELL, A. A Dutch light propagating glasshouse. *Grower [London]* 35:20-21. Jan. 6, 1951. 286.83 M34
- 193348 EDWARDS, R. L. Peak heating a mushroom house by calor gas. *Mushroom Res. Assoc. Rpt.* 1949:49-50. 84 Y2
- 193349 FILLMORE, R. H. Semiautomatic watering devices for propagating benches. *Amer. Nurseryman* 93(6):7-8,41-43. Mar. 15, 1951. 80 Am371
- 193350 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Cloche cultivation. *Gt. Brit. Min. Agr. & Fisheries. Adv. L.* 375,8 p. Nov. 1950. 10 G79La
- 193351 MEIER, F. Elektrische heizung im gartenbau. *Gärtnernmeister* 54:25-26. Jan. 25, 1951. 80 G1939  
Greenhouses.
- 193352 MINGUZZI, L. Hot beds in horticulture. (In Italian.) *Humus* 6(11):29. Nov. 1950. 16 H88



39353 MUIJZENBERG, E. W. B. VAN DEN. Horticultural technique in Scandinavia. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13(10,sup.):251-271. Ref. Nov.1950. 86 N384  
Greenhouses and equipment.

39354 PROCTER, C., QUARRELL, C. P., and BROWN, P. H. How smallholders may get more glass. Grower [London] 34:1275,1277,1279. Dec.16,1950. 286.83 M34

39355 TUL'ZHENKOVA, F. F. Types of hotbeds and greenhouses in the Extreme North. (In Russian.) Sad i Ogorod 1950(11):58-62. Nov.1950. 80 Sa13  
For growing early vegetables.

#### Storage Structures

39356 ANDERSSON, D. High silo or low silo? (In Swedish.) Lantmannen 35:135,140. Feb.17,1951. 11 L234  
39357 FINN, H. R. Better housing for machines. Farmer & Stock-Breeder 65(3202):98-99. Mar.6,1951. 10 F228

39358 FLUCHER, H. Grünfuttersilo—auf der wiese! Pflug 4:14. Jan.1951. 19 P48  
Austria.

39359 MARTIN. Sur les différents silos à fourrage vert et leur construction. Défense Agr. de la Beauce et du Perche 48:30-31. Jan.27,1951. 14 D36

39360 JENSEN, H. L. What kind of silos? (In Danish.) Dansk Landbr. 70:32-33. Jan.18,1951. 280.28 V91

#### Walls and Fences

39361 BACKHAUSEN. Die billige geländeeinzäunung. Tech. f. Bauern u. Gärt. Ausg. A 2:565-566. Oct.10,1950. 58.8 T223

39362 BLEICHERT, H. VON. Entwicklung und eigenart des elektrozauns. Landtechnik 6:91-94. Feb.15, 1951. 58.8 L235

39363 BURTON, J. A. More ideas to take the backache out of electric fence shifting. New Zeal. Dairy Exporter 25(12):45,47. June 1950. 44.8 N484

39364 HOWELL, R. E. How to build a good fence. Ark. Farmer 53(3):14-15. Mar.1951. 6 Ar42

39365 SUTTON, L. C. Fences; their construction and uses. Wyo. Range Mangt. 32.5 p. Feb.1951. 60.19 W99

#### FARM UTILITIES

##### Electricity and Electrification

39366 ANGUS, M. Lots of jobs for electricity; in B. C.'s Fraser Valley electric power has brought emancipation to both the farm and the home. Family Herald & Wk. Star 82(10):5,18. Mar.8,1951. 7 F21

39367 BRANNAN, C. F. Mobilizing our farm power. Washington, U. S. D. A., Off. Sec.1951. 12 p. 1.91 A2B73  
Talk at meeting of the National Rural Electric Cooperative Association, Cleveland, Jan. 30, 1951.

The part electric power and rural electric cooperatives can play in the present emergency.

39368 BRYANT, J. R. Three steps in selling the farmer. Elect. So. 31(2):88-89,109-110. Feb.1951. 335.8 EL234

Electrical appliances.

39369 CONSTANTINIDES, E. Electricity on the farm. Countryman [Nicosia] 5:7. Jan.1951. 25 C83  
Cyprus.

39370 DAY, E. L., and BIEN, C., comp. Farm, home, and community uses of electricity. U. S. D. A. Libr., Libr. List 54,30 p. Feb.1951. 1.916 L612

39371 FREITAS, H. DE. The problem of rural electrification. (In Portuguese.) Cooperativismo [Rio de Janeiro] 5(55):9-11. (Concl.) Jan.1951. 280.28 C7856  
Argentina, Canada, and Brazil.

39372 HEMKER, W. D. Profits from farm electrification buy more electrification. Elect. World 135(13):107-109. Mar.26,1951. 335.8 EL2

39373 IDAHO UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 4-H Club farm electrification, by J. W. Martin and W. H. Knight. Moscow? n.d. 275.2 Id1Fo

39374 KILOWATTS up—work hours down; test farm measures effect of electricity on labor and income. Capper's Farmer 62(4):16-17,43. Apr.1951. 6 M693

39375 KILPATRICK, J. J. Setback for a super co-op. Pub. Util. Fortnightly 47:278-285. Mar.1,1951. 280.8 P966

Electricity cooperative in Virginia.

39376 MAREC, E. Les appareils électriques de mesures de la ferme. Génie Rur. 44:19-23. Jan.1951. 58.8 Au8

39377 MAULDIN, H. Rural youth programs. Farm Electrification 5:7-10. Jan./Feb.1951. 335.8 F224

39378 RENFROE, C. J. Rural youth programs. Farm Electrification 5:3-6. Jan./Feb.1951. 335.8 F224

39379 TEARE, D. W. Electrical "help" for the farmer. Ky. Elect. Co-op. News 4:7. Jan.1951. 335.8 K41

39380 TEREKULOV, I. Collective farm electric power station on peat fuel. (In Russian.) Kolkhoz. Proizvodstvo 10(9):38. Sept.1950. 281.8 K83

39381 THEBIS, R. Elektrizitätsversorgung der Landwirtschaft. Tech. f. Bauern u. Gärt. Ausg. A 2:517-518. Sept.25,1950. 58.8 T223

39382 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Electricity can help boost farm output, by C. R. Wickard, G. E. Dillon and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11

39383 U. S. RURAL ELECTRIFICATION ADMIN. Status report on pin insulator failures. Washington? 1950. 4 p. 1.933 St262

39384 WESTHOUSE ELECTRIC & MANUFACTURING CO. SCHOOL SERV. Electrical farm equipment you can build. Pittsburgh,1950? 31 p. 335 W5291E

39385 WICKARD, C. R. Electric power called farmers' "bright spot in dark picture." Ky. Elect. Co-op. News 4:7. Feb.1951. 335.8 K41

39386 WICKARD, C. R. Electricity and defense. Nebr. Elect. Farmer 5(2):7. Feb.1951. 335.8 N27  
Rural electrification.

#### Heating, Lighting, and Radiation

39387 ABIET, P. A propos du gaz de fumier. Agr. Prat. 115:19. Jan.1951. 14 J82

39388 BEELER, M. N. Good light shortens legwork. Capper's Farmer 62(3):18-19. Mar.1951. 6 M693

39389 DUCRET, G. L'électricité, source de chaleur de fond. Jard. de France (ser.7):4:229-235. Nov.1950. 86 So13

39390 GONZÁLEZ RODRÍGUEZ, J. "Luz de día" en la iluminación nocturna de los gallineros. Valencia Avic. 7:26-29. Dec.1950. 47.8 V23

39391 NEITZKE, C. H. Heat lamps need a jacket; simple steps insure safety and avoid breakage. Elect. Farm 24(2):8-9. Feb.1951. 335.8 EL27

39392 WILLIAMS, R. H. Let's put proper light on the subject. Pa. Farmer 144:199,236-237. Mar.10,1951. 6 P383

#### Power Plants, Motors and Engines on the Farm

39393 KARMISHIN, A. Universal TV-8 windmill. (In Russian.) Mashinno-Traktornaya Sta. 10(9):51-55. Sept. 1950. 58.8 M11

39394 LALANNE, M. Le moteur à piston libre doit-il succéder au moteur classique actuel? Génie Rur. 44:59-61. Feb.1951. 58.8 Au8

39395 RENGIER. Gefahren bei Elektromotoren. Tech. f. Bauern u. Gärt. Ausg. A 2:526-527. Sept.25,1950. 58.8 T223

39396 ROGOZHNIKIN, N. S. To eliminate the defects of the universal TV-8 windmill. (In Russian.) Sel'khoz-mashina 1950(10):5-6. Oct.1950. 58.8 Se42

39397 RUMMEL, E. Eigenarten und fehlermöglichkeiten des drehstrommotors. Tech. f. Bauern u. Gärt. Ausg. A 2:525. Sept.25,1950. 58.8 T223

39398 WILHELMSON, R. Adequate care of farm electric motors. (In Swedish.) Lantmannen 34:952-953. Dec.9,1950. 11 L234

#### Sewage and Waste Disposal

39399 HAZEN, T. E. Build septic tanks right. Prog. Farmer, Tex. Ed. 66(3):76,96. Mar.1951. 6 T311

39400 LAIN, M. Drainage to septic tank. Farmers Wk. [London] 34(7):64. Feb.16,1951. 10 F2226

#### Telephones

39401 HADLEY, H. N. Few private phones on farms. Agr. Situation 35(3):11-12. Mar.1951. 1 Ec7Ag

39402 SLAGLE, A. B. Farmers, Bell tangle over rural telephones. Sowest. Crop & Stock 5(2):10,67. Feb. 1951. 6 So8942



Water Supply

- 39403 BOGANIN, V. S. Water-supply for the seasonal [desert and semidesert] pastures. (In Russian.) *Sotsialist. Zhivotnovod.* 12(11):24-28. Nov.1950. 49 So71  
Construction of wells.
- 39404 DEROSE, R. L. Take a look at this automatic water system. *Nebr. Farmer* 93(3):14,55. Feb.3,1951. 6 N27
- 39405 KASHEKOV, L. TG-1 hydraulic ram. (In Russian.) *Tekhsociety MTS* 11(27/28):10-16. 1950. 58.8 T233
- 39406 LUPIANI, R. Elevación de agua con bombas y norias. *Spain. Min. de Agr. Serv. de Capacitación y Propag. P. Manuales Téc.* 9,120 p. 1950. 15 Sp14
- 39407 ROSSEN, P. He builds his reservoir under the ground. (In Afrikaans.) *Landbouweekblad* 32(1643):21-22. Jan.10,1951. 24 L232  
Water storage.
- 39408 WANGERIN, A. Einfache und praktische tränknanlagen auf weiden. *Tech. f. Bauern u. Gart. Ausg.* A 2:627-628. Nov.10,1950. 58.8 T223

AGRICULTURAL PRODUCTS: PROCESSING, DISTRIBUTION, AND STATISTICSGENERAL

- 39409 BLACK, G. Production of food; agriculture intensified in periods of stress on the national economy. *Calif. Agr. [Calif. Sta.]* 5(2):2. Feb.1951. 100 C12Cag
- 39410 BRANNAN, C. F. The food situation. Washington, U. S. D. A., Off. Sec., 1951. 10 p. 1.91 A2B73  
Address at Food Trades Luncheon, National Retail-Owned Grocers, Inc., Chicago, Feb.19, 1951.  
Similar title in *What's New Home Econ.* 15(6):54-55. Feb.1951. 381.8 W55
- 39411 CALIFORNIA GROCERS ASSOCIATION. Proceedings of the 51st annual convention. *Calif. Grocers Advocate* 55(43),234 p. 1950. 286.28 C12
- 39412 COLSTON, R. Outlook for foods, dairies, sugars. *Mag. Wall St.* 87:610-611,634-637. Mar.10,1951. 286.8 M27
- 39413 DIPMAN, C. How food dealers size up the national emergency and period ahead. *Prog. Grocer* 30(2): 64-65,177,179-180. Feb.1951. 286.83 P942
- 39414 GUILLAUME, P. Les problèmes d'approvisionnement au Nord-Vietnam 1946-1950. *B. Econ. de l'Indochine* 53:321-329. Nov./Dec.1950. 22.5 In2
- 39415 HAZLITT, H. How to cause a famine. *News-week* 37(10):76. Mar.5,1951. 280.8 N47  
Indian food policy.
- 39416 HIPSLEY, E. H. Food production and consumption in Australia. *Austral. Inst. Anat. Food & Nutr. Notes & Rev.* 7:89-100. Sept./Oct.1950. 389.9 Au73
- 39417 HUNT, K. E. Supplies and prices: notes and statistics. *Farm Econ.* 6:252-259. 1950. 281.8 F223  
Great Britain.
- 39418 KUJAWSKI, J. S. Progress on special rations. *Food Technol.* 5:87-89. Mar.1951. 389.8 F7398  
For the armed forces.
- 39419 NATIONAL-AMERICAN WHOLESALE GROCERS ASSOCIATION. The 1951 NAWGA Convention, Chicago, Ill., February 15, 16 and 17, 1951. *Wholesale Grocer News* 25(12):11-50,70-71. Mar.1951. 286.83 W622
- 39420 NATIONAL DAIRY PRODUCTS CORPORATION. The role of research in the conservation of our nutritional resources, proceedings, scientific conference at the dedication of National Dairy Research Laboratories, Oakdale, N. Y., June 2, 1950. New York, 1950. 68 p. 389 N2196  
Food research.
- 39421 NIKLAS, K. Zwischen den Jahren. *Kartoffelwirtschaft* 3:499-500. Dec.29,1950. 286.83 K14  
German food industry.
- 39422 OFF. ALGERIEN D'ACTION ÉCONOMIQUE ET TOURISTIQUE (OFALAC). Produce of Algeria. *Algiers, 1950?* 27 p. 281.19 Of2  
Agricultural products.
- 39423 PILLSBURY, P. W. Hungers, wars and peace. (Abs.) *Amer. Miller & Processor* 79(2):36,38-39,60. Feb.1951. 298.8 Am32
- 39424 REEVES, R. C. Research that spells results. *Food Indus* 23(2):85-89,223. Feb.1951. 389.8 F737

- 39425 REGEL, C. VON. Problemas de las materias primas vegetales. *Euclides* 10:381-384. Nov.1950. 475 Eu2
- 39426 SAX, K. Can the earth feed its millions? *United Nations World* 5(3):22-23. Mar.1951. 280.8 Un384
- 39427 SMITH, S. R. Food mobilization plans. *Wholesale Grocer News* 25(12):48-50. Mar.1951. 286.83 W622
- 39428 UNITED NATIONS. INTERIM CO-ORDINATING COMMITTEE FOR INTERNATIONAL COMMODITY ARRANGEMENTS. Review of international commodity problems 1950. New York, 1951. 63 p. 286.9 Un32  
Includes agricultural raw materials.
- 39429 U. S. BUR. OF AGRICULTURAL ECONOMICS. The food situation. Washington, 1951. 2 p. 1.941 S2F736
- 39430 WALLACE, W. D. Philippines plan higher output of rice, coconuts and sugar. *Foreign Trade* 9:170-171. Feb.3,1951. 286.8 C162
- 39431 WHITEHILL, A. M., JR. Food industries in Virginia. *Charlottesville, Bur. Population and Econ. Res., U. Virginia, 1950.* 23 p. 389 W58

ANALYSIS AND COMPOSITION

- 39432 AMERICAN CHEMICAL SOCIETY. Analytical methods in the food industry; a collection of the papers presented at the Symposium on Analytical Methods in the Food Industry held by the Divisions of Analytical Chemistry and Agricultural and Food Chemistry of the American Chemical Society at the 115th national meeting in San Francisco, March 28 to April 1, 1949. *Advn. Chem. Ser.* 3,73 p. Sept.13,1950. 381 Ad93
- 39433 BARMASH, A. In regard to determining the specific weight of food products. (In Russian.) *Misnasna Indus. SSSR.* 21(4):87-88. July/Aug.1950. 50.8 M58
- 39434 BEADLE, B. W. Measurement of oxidative rancidity. *Advn. Chem. Ser.* 3:55-60. Ref. Sept.13,1950. 381 Ad93  
In foods.
- 39435 BLOCK, R. J., and BOLLING, D. The amino acid composition of proteins and foods; analytical methods and results. Ed. 2. Springfield, Ill., Thomas, 1951. 576 p. Ref. 387.1 B624A
- 39436 COPPADORO, A. VI Congresso Nazionale di Chimica; XXIII Congrès de Chimie Industrielle, Milano, 17-23 settembre 1950 [VI National Chemical Congress; XXIII Congress of Industrial Chemistry, Milan, September 17-23, 1950]. *Chim. e l'Indus.* 32:523-568. Nov.1950. 385 G43
- 39437 COPPENS, R., and ANTOINE, A. Contribution à l'étude des ferments d'arôme. *Inst. Agron. et Sta. de Rech. de Gembloux. B.* 18(1/2):39-52. Ref. 1950. 105.1 G285  
English summary.  
Bacteria.
- 39438 DAWSON, E. H., and DOCHTERMAN, E. F. A comparison of sensory methods of measuring differences in food qualities. *Food Technol.* 5(2):79-81. Feb.1951. 389.8 F7398
- 39439 DUNN, M. S. Determination of amino acids. *Advn. Chem. Ser.* 3:13-28. Ref. Sept.13,1950. 381 Ad93  
In agricultural products.
- 39440 EASTMOND, E. J. Measurement of color changes in foods. *Advn. Chem. Ser.* 3:3-12. Ref. Sept. 13,1950. 381 Ad93
- 39441 EVA, W. J. Determination of moisture in food products. *Canad. Food Indus.* 22(3):23. Mar.1951. 286.83 C166
- 39442 GOLOVATYI, R. N. New method for determining tartaric acid. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):24-25. Oct.1950. 95.8 V77
- 39443 GRASSMANN, W. Neue trennungs- und analysen-verfahren der eiweisschemie. (Sum.) *Z. f. Lebensmittel.-Untersuch. u. -Forsch.* 92:39-40. Jan.1951. 384 Z39
- 39444 IRWIN, B. L., and SCHUCK, C. Sodium values of a selected group of foods. *Amer. Dietet. Assoc. J.* 27: 98-100. Feb.1951. 389.8 Am34
- 39445 JONES, J. H., CLARK, G. R., and HARROW, L. S. A variable reference technique for analysis by absorption spectrophotometry. I.-II. *Assoc. Off. Agr. Chem. J.* 34:135-179. Feb.15,1951. 381 As7
- 39446 JORDAN, P. Probleme der eiweiss-molekül-struktur. *Milchwissenschaft* 6:12-14. Jan.1951. 44.8 M5933  
English summary.



39447 KAUFMANN, H. P., BALTES, J., and SIBBEL, B. Zur kenntnis der phosphatide in lebensmitteln. II. Die veränderungen des phosphatid-gehaltes in lebensmitteln, insbesondere von milch. *Fette u. Seifen* 52:736-737. Dec.1950. 384 C422

39448 LANDROCK, A. H., and PROCTOR, B. E. Measuring humidity equilibria. *Mod. Packaging* 24(6): 123-130,186. Ref. Feb.1951. 309.8 M72

39449 LARSON, B. L., and JENNESS, R. The determination of protein sulphydryl groups with iodine and o-iodosobenzoate by an amperometric titration. *J. Dairy Sci.* 33:890-895. Ref. Dec.1950. 44.8 J822

39450 LOY, H. W., JR., and KLINE, O. L. A note on the microbiological assay for vitamin B<sub>12</sub>. *Assoc. Off. Agr. Chem. J.* 34:225-226. Feb.15,1951. 381 As7

39451 MCDONALD, E. J. Refractive indices of maltose solutions. *Assoc. Off. Agr. Chem. J.* 34:212-219. Feb.15,1951. 381 As7

39452 MAKOWER, B. Determination of water in some dehydrated foods. *Advn. Chem. Ser.* 3:37-54. Ref. Sept. 13,1950. 381 Ad93

39453 MATCHETT, J. R. Introduction. *Advn. Chem. Ser.* 3:1-2. Sept.13,1950. 381 Ad93

Introduction to a conference on food analysis.

39454 MEYER, K. H., and GONON, W. F. La dégradation de l'amylose par les  $\alpha$ -amylases; recherches sur l'amidon 50. *Helvetica Chim. Acta* 34:294-307. Feb.1, 1951. 385 H36

39455 MEYER, K. H., and GONON, W. F. La dégradation de l'amylopectine par les  $\alpha$ -amylases; recherches sur l'amidon 51. *Helvetica Chim. Acta* 34:308-316. Feb. 1,1951. 385 H36

39456 PRUZANSKY, J. J. Microbial growth factors in commercial products of bacterial and fungal origin. *Iowa State Col. J. Sci.* 25:340-341. Jan.1951. 470 Io9

Abstract of thesis (Ph. D.).

39457 RADLEY, J. A. Ultra-violet radiation in the food industry. 2. *Food [London]* 20(233):66-68. Feb.1951. 389.8 F738

Fluorescence analysis.

39458 ROGER, L. L'évolution des méthodes de la chimie analytique. *Indus. Agr. et Aliment.* 67:551-560. Dec.1950. 383 As7

English summary.

39459 ROSENTHALER, L., and CAPUANO, L. Über die Mohlersche reaktion. I. Die reaktion der benzoessäure. *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 92:13-16. Jan. 1951. 384 Z39

39460 SABALITSCHKA, T. Zur bestimmung von vitamin C. X. *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 91:413-414. Dec.1950. 384 Z39

39461 SCHACHINGER, L. Osmotischer druck und mikroorganismenwachstum auf lebensmitteln. (Sum.) *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 91:423. Dec. 1950. 384 Z39

Molds.

39462 SOMERS, G. F., and others. The occurrence of substances which interfere with the determination of ascorbic acid in anthocyanin-containing plant products. *Food Res.* 16:62-70. Ref. Jan./Feb.1951. 389.8 F7322

W. C. Kelly, E. J. Thacker, and A. M. Redder, joint authors.

39463 SORIANO, A. M. DE. Estudio microbiológico de diversos alimentos que causaron intoxicaciones. *Asoc. Argentina de Dietologia. Rev.* 7:244-246. Oct./Dec.1949. 389.9 As5

39464 TILDEN, D. H. Measurement of filth in foods by microanalytical methods. *Advn. Chem. Ser.* 3:61-67. Sept.13,1950. 381 Ad93

39465 TRISTRAM, G. R. Amino acid analysis. *Chem. & Indus.* 1950:868-873. Ref. Dec.30,1950. 382 M31C

Food analysis.

39466 VAUGHN, R. H., LEVINE, M., and SMITH, E. A. A buffered boric acid lactose medium for enrichment and presumptive identification of *Escherichia coli*. *Food Res.* 16:10-19. Ref. Jan./Feb.1951. 389.8 F7322

39467 ZERBAN, F. W., and MARTIN, J. Refractive indices of maltose solutions. *Assoc. Off. Agr. Chem. J.* 34:207-211. Feb.15,1951. 381 As7

## CONSUMPTION AND UTILIZATION

39468 BENGIOA, J. M., and LIENDO COLL, P. Consumo de alimentos en Venezuela durante el año 1949. *Arch. Venezol. de Nutr.* 1:315-345. Dec.1950. 389.8 Ar22

English summary.

39469 BUEN, R. DE. Aprovechamiento de subproductos. *Esc. de Farm.* 12(154/155):3-27. (Cont.) Nov./Dec.1950. 396.8 Es1

39470 FELDMAN, H. The armed forces look to America's canning industry. *Natl. Canners Assoc. Inform. Let.* 1325:53-54. Feb.28,1951. 389.9 N214In

39471 FRANCE. INSTITUT NATIONAL DE LA STATISTIQUE ET DES ÉTUDES ÉCONOMIQUES. Revue de l'agriculture et enquêtes de consommation. *France. Inst. Natl. de la Statis. et des Études Écon. Études et Conjoncture. Écon. Franç.* 5(6):39-48. Nov./Dec.1950. 280.8 F84

39472 MCMILLEN, W. The evolution of chemistry. (Sum.) (In Italian.) *Chim. e l'Indus.* 32:540. Nov.1950. 385 G43

39473 MORTENSON, W. P., and BRANDNER, J. H. Service for the consumer. *Ext. Serv. Rev.* 22:20. Feb. 1951. 1 Ex892Ex

Consumer education in utilizing farm products more effectively.

39474 SANCHEZ, C. S. Vendors learn to sell—consumers to buy. *Ext. Serv. Rev.* 22:24-25. Feb.1951. 1 Ex892Ex

Consumer education in Puerto Rico.

39475 TEUTON, F. L. New uses for farm products. *Washington, U. S. Bur. Agr. & Indus. Chem.*, 1951. 13 p. 1.98 T29

Address before the annual meeting of the Greater North Dakota Association at Devils Lake, Mar. 20, 1951.

39476 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Seasonal patterns of food consumption, city families, 1948. *U. S. Bur. Human Nutr. & Home Econ. Spec. Rpt.* 3,16 p. Feb.1951. 1.982 A2F7382

39477 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Industrial uses for farm products, by R. T. Milner, R. W. Jackson, J. C. Cowan, and B. Burton. *Washington, 1951.* 4 p. 1.914 R2R11

39478 WILLIAMSON, R. V., and LATHROP, E. C. Hard board from agricultural residues. *Mod. Plastics* 28(8):126,128,130,187. Apr.1951. 309.8 P69

## DISTRIBUTION, MARKETING, AND TRANSPORTATION

39479 BELLIPPA, P. I. The Coorg Provincial Co-operative Marketing Federation. *Indian Co-op. Rev.* 16: 221-226. July/Sept.1950. 280.28 In2

39480 BERMEJO, F. Una sugereñcia. *Aliment. Nac.* 10(182):2,10. Dec.25,1950. 389.8 AL42

Marketing control of agricultural products in Spain.

39481 CASPERSON, L. O. Distributors are important link in frozen food industry. *Calif. Grocers Advocate* 56(8):28. Feb.23,1951. 286.8 C12

39482 CHOWDHURY, S. A. The Orissa Provincial Co-operative Marketing Society. *Indian Co-op. Rev.* 16: 227-234. July/Sept.1950. 280.28 In2

39483 CLARK, R. E. The boxcar situation—past, present and future. *Grain & Feed Rev.* 40(6):20,22. Feb.1951. 280.28 C78

39484 DHAGAT, P. L. C. P. & Berar Provincial Co-operative Marketing and Supply Society. *Indian Co-op. Rev.* 16:235-241. July/Sept.1950. 280.28 In2

39485 ESHBACH, C. E. Consumer education is essential for rational marketing. *Washington, U. S. Bur. Agr. Econ.*, 1950. 18 p. 1.941. M3C765

Address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 30, 1950.

39486 GRAY, A. W. Marketing restrictions bear watching. *Farm & Ranch South. Agr.* 81(3):24,30. Mar. 1951. 6 T31

39487 GROOTJANS, A. Un plan comptable pour le commerce de gros en alimentation. *Vivres* 6:14-16. (Cont.) Jan.1951. 389.8 V832

Belgium.



- 39488 HAMMER, E. Changes in marketing; services are better but costs are still climbing. *Dairyland News* 21(2):6-7. Feb. 1951. 280.28 W752
- 39489 HAMMOND, A. E. How have Q-frozen food sales fared? *Fruit, Flower & Veg. Trades' J.* 98(24):33, 35. Nov. 25, 1950. 80 F946  
Great Britain.
- 39490 HARPER, M. Why aren't food posters better read? *Advertising Agency* 44(2):76, 139. Feb. 1951. 238.28 Ad93
- 39491 HAYNES, D. O. Mechanized materials handling and the manpower problem. *Quick Frozen Foods* 13(8):93-95, 234, 236. Mar. 1951. 389.8 Q4
- 39492 HUFF, A. E. Frozen foods transportation today. *Quick Frozen Foods* 13(8):106-107, 228, 230, 232. Mar. 1951. 389.8 Q4
- 39493 JOHNSON, D. M., and SESSIONS, R. E. We built a food brokerage distribution system in 5 weeks. *Sales Mangt.* 66(6):44-46, 48. Mar. 15, 1951. 280.38 Sa3
- 39494 KOTTSEPER, Zur gütertariferhöhung der bundesbahn. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:85. Jan. 18, 1951. 18 L2346
- 39495 LANGFELD, A. If distributors could only be wholesalers. *Calif. Grocers Advocate* 56(8):24, 47. Feb. 23, 1951. 286.28 C12  
Frozen foods.
- 39496 MCNAIR, M. P. Importance of efficient food distribution. 2. *Super Mkt. Merchandising* 16(2):152, 155, 157-160, 162. Feb. 1951. 389.8 Su7
- 39497 MAHBOOB, M. S. Mysore Provincial Co-operative Marketing Society. *Indian Co-op. Rev.* 16:213-220. July/Sept. 1950. 280.28 In2
- 39498 MAXTON, J. L. What can be done to improve the Roanoke market. *Va. Fruit* 39(2):103-107. Feb. 1951. 31 V81B
- 39499 MELANDER, A. Transportation research. (In Swedish.) *Lantmannen* 35:146. Feb. 24, 1951. 11 L234  
Includes farm transportation.
- 39500 NATIONAL FARM RADIO FORUM. Do we need a world food bank? *Farm Forum Guide* 8(11):1-3. Feb. 12, 1951. 281.8 F2272
- 39501 NATIONAL FARM RADIO FORUM. Marketing quality products. *Farm Forum Guide* 8(8), 4 p. Jan. 15, 1951. 281.8 F2272  
Canada.
- 39502 PURCELL, M. R. Truck regulations eased but are still an issue. *Agr. Situation* 35(2):12-13. Feb. 1951. 1 Ec7Ag
- 39503 RAEBURN, J. R. General principles of marketing. In *Agricultural Co-operative Association. The farmer in business*, p. 68-75. London, 1950. 280.2 Ag83F
- 39504 ROGERS, W. The frozen food broker is more essential than ever. *Quick Frozen Foods* 13(8):98, 248-249. Mar. 1951. 389.8 Q4
- 39505 RUIZ SANTAELLA, J. La venta de productos agrícolas en Holanda. *Siembra [Madrid]* 6(12):10-13. Dec. 1950. 15 S11
- 39506 SAVILLE, G. Rail charges: watch your weights. *Grower [London]* 34:1365, 1367. Dec. 30, 1950. 286.83 M34  
England.
- 39507 SCHAAL, W. Farm women run a market in the Nation's Capital. *Capper's Farmer* 62(4):40, 90. Apr. 1951. 6 M693  
The Montgomery Farm Women's Co-operative Market, Bethesda, Md.
- 39508 SHROFF, N. J. The Bombay Provincial Co-operative Marketing Society. *Indian Co-op. Rev.* 16:203-209. July/Sept. 1950. 280.28 In2
- 39509 SOMASUNDARAM, M. The Madras Provincial Co-operative Marketing Society. *Indian Co-op. Rev.* 16:210-212. July/Sept. 1950. 280.28 In2
- 39510 SUPER MARKET INSTITUTE. The super market industry speaks; a factual report by the members of Super Market Institute, 1949. Chicago, 1950. 30 p. 286.29 Su7S
- 39511 TAYLOR, J. H. The particular scope for development in co-operative marketing. In *Agricultural Co-operative Association. The farmer in business*, p. 78-81, 83. London, 1950. 280.2 Ag83F
- 39512 TYLER, R. L. Food distribution cost cut vital to our economy. *Butchers' Advocate* 129(11):31. Mar. 14, 1951. 286.85 B97
- 39513 U. S. BUR. OF AGRICULTURAL ECONOMICS. Interstate barriers to truck transportation, by M. R. Purcell. Washington, 1950. 117 p. 1.941 M2In8
- 39514 U. S. DEPT. OF AGRICULTURE. OFF. OF THE SOLICITOR. Summary of the marketing quota provisions of the Agricultural Adjustment Act of 1938, as amended. Washington, 1951. 29 p. 1.918 Su64

# GRADING, INSPECTION, STANDARDIZATION AND QUALITY

39515 APP, F. Chemical agents and residues in foods: the grower's viewpoint. *Food Technol.* 5:107-110. Mar. 1951. 389.8 F7398

39516 AUSTERN, H. T. Progress in food production and the protection of the public health. *Natl. Canners Assoc. Inform. Let.* 1325:102-106. Feb. 28, 1951. 389.9 N214In

Added chemicals.

Also in *Canner* 112(12):18-20. (To be cont.) Mar. 24, 1951. 286.83 C16

39517 BISHOPP, F. C. Food, health & insecticides. *Agr. Chem.* 6(2):38-40, 97-101. Feb. 1951. 381 Ag8

39518 CLAY, H. H., The sanitary inspector's handbook. Ed. 7, rev. and enl. London, Lewis, 1950. 565 p. 449.1 C57

Includes milk plants, food preservation, and meat inspection.

39519 CLOCHÉ, F. La normalisation des produits agricoles. *Marchés Colon.* 7:129-131. *Marchés Colon.* 7:129-131. Jan. 13, 1951. 286.8 M33

French Equatorial Africa.

39520 DAVIS, L. L., and TERRY, M. E. Rank order evaluation by use of triangle test. (Abs.) *Va. J. Sci. (n.s.)* 1:335. Sept. 1950. 470 V81  
Food.

39521 GARASSINI, L. A. Epidemias que puede causar el consumo de hielo. *Agro [El Valle]* 5(14):29-31. Sept./Oct. 1950. 9.95 Ag83

39522 GORDON, M. Too much fooling with the food. *Scot. Home & Country* 27:48. Feb. 1951. 281.28 Sco3  
Lack of sanitation.

39523 GREENLEAF, C. A. The added chemical problem as related to canned foods. *Natl. Canners Assoc. Inform. Let.* 1325:107-110. Feb. 28, 1951. 389.9 N214In

39524 HEISS, R. Haltbarkeit und verpackung einiger hygroskopischer lebensmittel. (Sum.) *Z. f. Lebensmitl.-Untersuch. u. -Forsch.* 91:425. Dec. 1950. 384 Z39

39525 HINTON, C. L. Food laws of Norway. *Food [London]* 20(233):52-54, 68. Feb. 1951. 389.8 F738

39526 HOFFMAN, C. H. Highlights of the Food and Drug Administration tolerance hearings. (Abs.) *Ent. Soc. Wash. Proc.* 53:55-56. Feb. 1951. 420 W27

39527 HOLZ, K. Salmonella morificans bovis als ursache von lebensmittelvergiftungen. *Berlin u. Münch. Tierärztl. Wchnschr.* 1950:264-265. Ref. Dec. 1950. 41.8 B45

39528 KING SHAW, J. Some aspects of food inspection. *Roy. Sanit. Inst. J.* 71:24-35. Jan. 1951. 449.9 R812  
Includes discussion.

39529 LEVINSON, B. D. What about residue hearing? Food, Drug & Cosmetic officials are now considering evidence. *Agr. Leaders' Digest* 32(3):21-23. Mar. 1951. 275.28 Am3

39530 LINE ELEVATORS FARM SERV. Producers grading guide. *Rev. Winnipeg, North-West Line Elevators Assoc., 1950.* 80 p. 280.3 L642

39531 PARKER, L. T. Legally it's this way; here are ten higher court decisions involving food manufacturers that will help you stay on the sunny side of the law. *Food Indus.* 23(3):84-86. Mar. 1951. 389.8 F737

39532 QUEEN, W. A. The A.O.A.C. and food standards. *Assoc. Off. Agr. Chem. J.* 34:27-35. Feb. 15, 1951. 381 As7

39533 RENAUD. Organisation du conditionnement en Afrique Occidentale Française. (Sum.) *Agron. Trop.* 6:79-80. Jan./Feb. 1951. 26 Ag86

39534 RUST, J. H. Food inspection and nuclear energy. *Amer. Vet. Med. Assoc. J.* 118:135-138. Mar. 1951. 41.8 Am3

# PACKING AND PACKAGING

39535 DELMONTE, J. Organic plastics in packaging. *Good Packaging* 12(2):25-27, 31, 52. Ref. Feb. 1951. 280.38 G59

Food products.

39536 ENGLAND, F. Food packaging, progress in 1950. *Food Mfr.* 26:59-61. Feb. 1, 1951. 389.8 F736



- 39537 LEFAUX, R. Les emballages plastiques pour denrées alimentaires. Emballages 21(123):59,61,63. Jan./Feb.1951. 309.8 Eml
- 39538 LEWIS, C. A. Raw materials, containers and controls outlook. Natl. Canners Assoc. Inform. Let. 1325: 58-59. Feb.28,1951. 389.9 N214In
- 39539 RIGHI, H. Druckverhältnisse beim hitze-sterilisieren von Dosen. (Sum.) Z. f. Lebensmitl.-Untersuch. u. -Forsch. 91:425. Dec.1950. 384 Z39
- 39540 SMALL, R. J. Metal can conservation. Natl. Canners Assoc. Inform. Let. 1325:60. Feb.28,1951. 389.9 N214In
- 39541 ZIEMBA, J. V. Packages dry foods "regimental" style. Food Indus. 23(3):102-103. Mar.1951. 389.8 F737

### PRICES, PRICE CONTROL, AND RATIONING

- 39542 BAGGE, F. Farm prices 1950. (In Swedish.) Lantmannen 35:49-53. Jan.20,1951. 11 L234 Sweden.
- 39543 BAPTIST, J. Après l'expérience Coppé. Vivres 6:12-13. Jan.1951. 389.8 V832 Food prices in Belgium.
- 39544 BOVYN, R., BUYSSCHER, J. DE, and RYCK, J. DE. Investigation about the economic situation of farms in Belgium, 1948-1949. II. Prices. (In Dutch.) Gent. Landhogesch. Meded. 15:357-395. June 1950. 105.1 G344 English summary.
- 39545 BOWDEN, R. Price control. (Extr.) Flour & Feed 51(10):22-23. Mar.1951. 298.8 F66
- 39546 BRANNAN, C. F. Farm prices in the price control picture. Dairymen's League News 35(4):8-9,19. Feb.20,1951. 44.8 D1432 Similar title in Fruit & Veg. Rev. 12(12):11. Mar.1951. 80 C1224
- 39547 BUDD, N. H. Canner's share of the consumer's dollar. Canning Trade 73(35):7-8. Mar.19,1951. 286.83 T67
- 39548 CATON, D. Parity prices: what they are and how they are computed. Canner 112(12):12-13,16. Mar.24,1951. 286.83 C16
- 39549 CHATER, S. W. Food can be cheaper provided-- (In Afrikaans.) Primary Prod. [Cape Town] 27:11. Jan.12,1951. 281.8 P93
- 39550 COCHRAN, C. L. Price supports and the distribution of agricultural income. South. Econ. J. 17:330-338. Jan.1951. 280.8 S684
- 39551 COOLEY, H. D. Who says farmers are getting rich? Carolina Co-op. 29(3):11-12,30. Mar.1951. 72.8 N81 Farm prices.
- 39552 CORONAT, F. Prix et salaires. Agence France-Presse. Inform. et Doc. 332:9-11. Feb.24,1951. 280.9 Ag3 France.
- 39553 COSENTINO, S. Prices of our chief agricultural products in 1950. (In Italian.) Cam. di Com. Indus. e Agr. Barl. B. (n.s.)34:10-12. Dec.1950. 287 B232
- 39554 DSALLE, M. V. Price control as I see it. Natl. Canners Assoc. Inform. Let. 1325:63-65. Feb.28, 1951. 389.9 N214In
- 39555 DU PLESSIS, C. VAN H. Is the farmer really rich? Price increases in the last ten years. (In Afrikaans.) Landbouweekblad 32(1643):12-13. Jan.10,1951. 24 L232
- 39556 EAST BENGAL. CIVIL SUPPLIES DEPT. Index numbers of prices of certain selected commodities in East Bengal. Dacca,1950. 2 p. 284.3 Ea72 Agricultural products.
- 39557 FRANCE. DIRECTION DE LA DOCUMENTATION. Extraits de l'inventaire des ressources de l'économie française en 1949; prix-salaires-main-d'oeuvre (mise à jour avec les chiffres d'octobre 1950). France. Dir. de la Doc. Notes et Etudes Doc. 1409,26 p. Dec.6, 1950. 280.9 F843 Discusses agricultural prices.
- 39558 GILLETTE, G. M. The farmer's fair share. Ohio Farm Bur. News 30(7):8-9,29-31. Feb.1951. 6 Oh34
- 39559 HEMPHILL, P. V. Prices of North Dakota farm products. N. Dak. Agr. Expt. Sta. Bimon. B. 13:131-132. Jan./Feb.1951. 100 N813B
- 39560 HERRING, J. Some strategic factors for the price policy in agriculture. (In Dutch.) Landbk. Tijdschr. 63:13-22. Jan.1951. 105.2 Or3 Netherlands.
- 39561 JONES, J. M. This thing "parity." Natl. Wool Grower 41(3):5. Mar.1951. 45.8 N21N
- 39562 KLINGER, D. Do you like price controls? Wis. Agr. & Farmer 78(3):7. Feb.3,1951. 6 W751
- 39563 KOHLS, R. L. The farmer and price control; here are some problems it will create and suggestions on how they may be solved. Capper's Farmer 62(3):19,56. Mar.1951. 6 M693
- 39564 LANGENEGGER, R. Amerikanische preisstützungsprogramme. Agrarpolit. Rev. 7:217-225. Jan.1951. 281.8 Ag824
- 39565 LINDSTROM, D. E. Swedish farm price policies. Farm Policy Forum 4(2):26-28. Feb.1951. 281.8 F2274
- 39566 MARTIN, P. A la croisée des chemins: le retour possible à la pénurie. Bas-Rhin Agr. 6:25-26. Jan.20,1951. 14 B29 Text also in German. Prices and production costs.
- 39567 THE PARITY outrage. Fortune 43(4):77-79. Apr.1951. 110 F772
- 39568 PARSONS, L. C. Mr. Brannan apologizes. Poultry Indus. [Boston] 55(3):29-30. Mar.1951. 47.8 N44 Farm prices and controls.
- 39569 PARVIN, D. W., CHRISTIAN, W. E., and TRAMEL, T. E. State farm price and outlook situation. Miss. Farm Res. [Miss. Sta.] 14(2):7. Feb.1951. 100 M69Mi
- 39570 PHELPS, E. F., JR. Price stabilization plans for food distributors. Natl. Food Distrib. J. 22(10,1.e.11): 12-13,31. Feb.1951. 286.28 N212 Also in Amer. Grocer 165(9):38-40. Feb.28,1951. 286.83 Am32 and in Wholesale Grocer News 25(12):29-30. Mar.1951. 286.83 W622
- 39571 PIZZUTI, A. Export prices of horticultural products in 1949. (In Italian.) Riv. di Econ. Agr. 5:117-124. 1950. 281.8 R52 English summary. Italy.
- 39572 PLATE, R. Das paritätspreissystem der USA für agrarischezeugnisse. Agrarpolit. Rev. 7:225-234. Jan. 1951. 281.8 Ag824
- 39573 ROWE, J. Z. How Defense Production Act affects agricultural commodities. N. Mex. Agr. Col. Ext. News 31:3. Jan.1951. 275.29 N483Ex Chiefly prices.
- 39574 RUSSELL, J. S. Mr. Farmer: Don't let this price freeze confuse you. Iowa Farm & Home Register 1951:8-H-9-H. Feb.4,1951. 6 Io94
- 39575 SANCHEZ, J. El 1950 ha sido un año de rectificaciones en la política de precios. Aliment. Nac. 10(182): 4,15. Dec.25,1950. 389.8 AL42 Spain.
- 39576 SCHILL, L. Gibt es bei uns zweierlei richt? Die landwirtschaft ist keine wohltätigkeitsanstalt; ein wort zu den preisen in der landwirtschaft. Bauern Ztg. 3:489-490. Oct.27,1950. 18 B324 Germany.
- 39577 SHEPHERD, G. Parity loops again. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:123-124. Feb.1951. 275.28 Io94
- 39578 STRAULI, D. Die auswirkungen der lebensmittelverbilligung auf die haushaltsgaben in angestellten-, beamten- und arbeiterfamilien. Schweiz. Z. f. Volkswirt. u. Statist. 86:539-557. Dec.1950. 280.8 Z3
- 39579 TAYLOR, R. L. Food price subsidies. Editorial Res. Rpt. (1951)1:121-137. Feb.21,1951. 280 Ed42
- 39580 THACKREY, J. F. Parity, some questions and answers. Agr. Situation 35(3):3-4. Mar.1951. 1 Ec7Ag Parity and parity prices.
- 39581 U. S. BUR. OF AGRICULTURAL ECONOMICS. Parity and average prices received by farmers for agricultural commodities, January 1951. Washington,1951. p.31-43. 1.941 F8P21
- 39582 WEEKS, D. Farm products and real estate; analysis of factors that may modify downward trend in prices temporarily deferred by current emergency. Calif. Agr. [Calif. Sta.] 5(3):2,15. Mar.1951. 100 C12Cag
- 39583 WHAT the price control order means to frozen foods. Quick Frozen Foods 13(8):179-181. Mar.1951. 389.8 Q4

### PROCESSING AND STORAGE

- 39584 ALEXANDER, O. R. The role of special analytical tools in special investigational work and in trouble-shooting. Natl. Canners Assoc. Inform. Let. 1325:85-90. Feb.28,1951. 389.9 N214In



- 39585 BALLANTYNE, G. H. Design of a cold storage plant. Pear Growers League, Annu. 1950:27. 286.3939 P31
- 39586 BAZEMORE, G. M. The part canners play in Georgia's economy. South. Canner & Packer 12:13-15, 20-21. Jan. 10, 1951. 389.8 S082
- 39587 BENDIX, G. H., and STAMMER, W. C. Some aspects of control methods in the canned food industry. Advn. Chem. Ser. 3:68-73. Ref. Sept. 13, 1950. 381 Ad93
- 39588 BOHM, E. Allgemeingültige, schnelle berechnung der gewichtsverhältnisse ( $\frac{w_1}{w_2}$ ), wichten ( $\frac{w_1}{w_2}$ ) und dichten ( $\rho$ ) von flüssigkeiten ohne benutzung von logarithmen. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 92:16-24. Jan. 1951. 384 Z39
- 39589 BOHRER, C. W. N.C.A. experimental program with sublin. Natl. Canners Assoc. Inform. Let. 1325:95-98. Ref. Feb. 28, 1951. 389.9 N214In
- 39590 BORUFF, C. S., and VAN LANEN, J. M. Fermentation. Indus. & Engin. Chem. 43:574-576. Mar. 1951. 381 J825
- 39591 BRONSON, W. F. Technology and utilization of gelatin. Food Technol. 5(2):55-58. Feb. 1951. 389.8 F7398
- 39592 BROWN, A. H., and others. Flash heating, concentrating. 2. Food Packer 32(2):34-35, 73-74. Feb. 1951. 286.83 C165
- M. E. Lazar, T. Wasserman, and W. D. Ramage, joint authors.
- 39593 BURROUGHS, J. D., and WHEATON, E. Results of studies on the preservative action of antibiotics in processed foods. Natl. Canners Assoc. Inform. Let. 1325:99-101. Feb. 28, 1951. 389.9 N214In
- 39594 BURTON, R. C. Western locker plants adopt successful business-building plans. West. Locker 11, i.e. 12(2), i.e. 3:8-9. Feb. 1951. 389.8 P112
- 39595 CAMERON, E. J. Canned foods in civil defense. Natl. Canners Assoc. Inform. Let. 1325:52-53. Feb. 28, 1951. 389.9 N214In
- 39596 CAMPBELL, H. Quality control methods in frozen food production and distribution. Advn. Chem. Ser. 3:29-36. Ref. Sept. 13, 1950. 381 Ad93
- 39597 DALTON, W. Frozen foods have a rosy future. Calif. Grocers Advocate 56(8):34. Feb. 23, 1951. 286.28 C12
- 39598 DAWSON, J. C. The way to foolproof sanitation. Food Indus. 23(2):99-100, 221. Feb. 1951. 389.8 F737
- 39599 EASTMOND, E. J., PETERSON, J. E., and STUMPF, R. R. Observation of color changes in some processed and stored foods. Food Technol. 5:121-128. Ref. Mar. 1951. 389.8 F7398
- 39600 ESTY, J. R. Dietetic packs in the nutritional program. Natl. Canners Assoc. Inform. Let. 1325:77-78. Feb. 28, 1951. 389.9 N214In
- Canned foods.
- 39601 FRAZER, A. C. Synthetic chemicals and the food industry. J. Sci. Food & Agr. 2:1-7. Ref. Jan. 1951. 382 S012
- 39602 FULLERTON, F. H. 16th annual for B. C. canners. Canad. Food Indus. 22(3):27-29. Mar. 1951. 286.83 C166
- 39603 GREENLEAF, C. A. The added chemical problem as related to canned foods. Canner 112(11):11-13, 23-24. Mar. 17, 1951. 286.83 C16
- 39604 GUNDERSON, F. L. Food technology curricula. Food Technol. 5:85-87. Ref. Mar. 1951. 389.8 F7398
- 39605 HADELER, W. D. History highlights of the frozen food industry. Calif. Grocers Advocate 56(8):26. Feb. 23, 1951. 286.8 C12
- 39606 HAVIGHORST, C. R. Aseptic canning in action. Food Indus. 23(2):72-74. Feb. 1951. 389.8 F737
- Sterilization.
- 39607 JUON, P. L. Prospects for the agricultural industries; modernize establishments for the processing of products of the soil. (In Italian.) Agenzia Romana Note e Inform. Agr. 16:7. Mar. 6, 1951. 281.8 Ag3
- 39608 KLOMP, G. The independent retailer looks at frozen foods. Quick Frozen Foods 13(8):112, 259-260, 262, 264. Mar. 1951. 389.8 Q4
- 39609 LANGFIELD, A. W. The frozen food industry looks forward to growth. West. Canner & Packer 43(2):47, 52. Feb. 1951. 286.83 W522
- 39610 LANGFIELD, A. W. Why not one over-all industry association? Quick Frozen Foods 13(8):103, 251. Mar. 1951. 389.8 Q4
- 39611 LAUZE, J. Le froid industriel: chafnes et transports frigorifiques. Indus. Agr. et Aliment. 67:597-601. Dec. 1950. 383 As7
- English summary.
- 39612 LUBIENIECKA-VON SCHELHORN, M. Wirkungsbereich und anwendungsmöglichkeiten altbekannter und neuerer konservierungsmittel. (Sum.) Z. f. Lebensmtl.-Untersuch. u. -Forsch. 91:423. Dec. 1950. 384 Z39
- 39613 MAN, T. J. DE. Possibilities of the use of antibiotics in the food industry. (In Dutch.) Chem. Week bl. 47:142-144. Ref. Mar. 10, 1951. 385 C42
- 39614 MILLER, R. C., KOLSHORN, A. M., and WEIGAND, E. H. Freezing cooked and prepared foods. Oreg. Agr. Expt. Sta. B. 494, 15 p. Jan. 1951. 100 Or3
- 39615 MORSE, R. E. Mode of action of sodium benzoate. Food Res. 16:1-9. Ref. Jan./Feb. 1951. 389.8 F7322
- In food preservation.
- 39616 MRAK, E. M. Teaching of sanitation in connection with food technology curricula. Food Technol. 5(2):41-42. Feb. 1951. 389.8 F7398
- Discussion by B. E. Proctor, p. 42-43.
- 39617 NATIONAL CANNERS ASSOCIATION. Proceedings of the 44th annual convention. Natl. Canners Assoc. Inform. Let. 1325:49-127. Feb. 28, 1951. 389.9 N214In
- 39618 NORDSIEK, F. W. Bakers yeast—unique product. Food Indus. 23(2):101-109. Feb. 1951. 389.8 F737
- Manufacture.
- 39619 OHLER, H. Gellermittel für die konfitüren- und marmeladenherstellung, unabhängig von zucker- und säurezusatz. Stärke 2:302-303. Dec. 1950. 309 St22
- Pectin.
- 39620 OLCOTT, H. S. Problems in the application of antibiotics to food processing. Natl. Canners Assoc. Inform. Let. 1325:102. Feb. 28, 1951. 389.9 N214In
- Also in Amer. Grocer 165(9):40. Feb. 26, 1951. 286.83 Am32
- 39621 PROCTOR, B. E. Radiations and their application in food processing. Natl. Canners Assoc. Inform. Let. 1325:94. Feb. 28, 1951. 389.9 N214In
- Also in Canner 112(11):16. Mar. 17, 1951. 286.83 C16
- 39622 REES, H. G. Applications of amino acids and protein hydrolysates in the food industries. Chem. & Indus. 1950:875-877. Dec. 30, 1950. 382 M31C
- 39623 REFRIGERATION RESEARCH FOUNDATION. Report of the director, 1950. Colorado Springs, 1951. 44 p. 295.9 R25Re
- 39624 RODRIGUEZ CASALS, C. Las conservas alimenticias. Retiro Azucarero 6(19/20):54-57, 60. Sept./Dec. 1950. 65.8 R31
- 39625 SAIR, L., and HALL, L. A. The use of antioxidants in deep fat frying. Food Technol. 5(2):69-73. Ref. Feb. 1951. 389.8 F7398
- 39626 SHARP, P. F. Where canners must look for their future profits. Canner 112(8):18, 20-21. Feb. 24, 1951. 286.83 C16
- 39627 SHELOR, E., and SIEWERT, S. W. Preparing foods for freezing. Ga. Agr. Expt. Sta. Press B. 628, 2 p. Feb. 23, 1951. 100 G29P
- 39628 SIMPSON, R. A. Wrong salt may tip borderline pack into lower quality grade. Food Packer 32(2):32-33. Feb. 1951. 286.83 C165
- Food canning.
- 39629 SMITH, S. R. The canner's role in economic utilization of the nation's food producing facilities. Natl. Canners Assoc. Inform. Let. 1325:55-58. Feb. 28, 1951. 389.9 N214In
- 39630 SMITH, S. R. The over-all supply situation. Natl. Canners Assoc. Inform. Let. 1325:76. Feb. 28, 1951. 389.9 N214In
- Canned food.
- 39631 SOMERS, I. I. Studies on in-plant chlorination. Food Technol. 5(2):46-51. Feb. 1951. 389.8 F7398
- 39632 TAYLOR, H. P. Canned foods outlook. Amer. Grocer 165(9):12, 14, 16. Feb. 28, 1951. 286.83 Am32
- Also in Wholesale Grocer News 25(12):25-26, 71. Mar. 1951. 286.83 W622
- 39633 TRESSLER, D. K. Chemical problems encountered in freezing foods. J. Chem. Educ. 28:168-169. Mar. 1951. 381 J826
- 39634 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Pointers on freezing yeast and quick breads, pies, cookies, and cake. Washington, 1950? 3 p. 1.982 A2P75
- 39635 U. S. PRODUCTION AND MARKETING ADMIN. A survey of the capacity of refrigerated storage warehouses in the United States as of October 1, 1949. Washington, 1950. 33 p. 1.9 Ec7Tab
- 39636 VERHULST, M. P. How can growers and canners work together? (Extr.) Canner 112(8):13-15. Feb. 24, 1951. 286.83 C16



39637 WATSON, E. J. Frozen food profits unlimited. Calif. Grocers Advocate 55(43):52,54,56. Oct.27,1950. 286.28 C12

## STATISTICS

39638 ANTIOQUIA. DIRECCION DEPART. DE ESTADISTICA. Anuario estadístico de Antioquia, años 1947 y 1948. Medellín,1950. 324 p. 255.5 An8A  
Includes agricultural statistics.

39639 BARCELONA. CÁMARA OFICIAL DE COMERCIO Y NAVEGACIÓN. Memoria comercial del año 1949, tomo I. Barcelona,1950. 339 p. 287 B23  
Includes agricultural statistics.

39640 BRITISH COLUMBIA. DEPT. OF AGRICULTURE, STATISTICS BR. Agricultural statistics report, year 1949. Victoria,1950. 52 p. 7 B77S

39641 CANADA. BUR. OF STATISTICS. The Canada year book 1950. Ottawa,1950. 1238 p. 253 Ag8Yc  
Contains chapters on agriculture, forestry, and trade.

39642 DENMARK. STATISTISKE DEPT. Landbrugsstatistik 1949 herunder gartneri, skovbrug m. v. L'agriculture 1949 y compris l'horticulture, la sylviculture etc. København,1951. 411 p. 257.1 St2M  
Table of contents also in French.

39643 ELY, R. J. W. Montana's production, 1930-1949; a business and economic yearbook. Mont. State U. Bur. Business & Econ. Res. B. 13,78 p. Dec.1950. 252.49 Un3

Contains agricultural statistics.

39644 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Agricultural statistics 1946-7, United Kingdom. I. London,1950. 49 p. 256.01 Sco82A  
Scotland Department of Agriculture and Northern Ireland Ministry of Agriculture, cooperating.

39645 ITALY. ISTITUTO CENTRALE DI STATISTICA. Annuario statistico italiano, 1949-50, serie V, vol. II [Italian statistical annual, 1949-50, series V, vol. II]. Roma,1950. 489 p. 261 An7

Includes agriculture and forestry.

39646 JURÉEN, L. The revised agricultural census of 1950/51. (In Swedish.) Sweden.Stat. Jordbränsmd. Jordbrekon. Meddel. 12:317-325. Nov.1950. 257.3 J76

39647 MISSOURI. DEPT. OF AGRICULTURE. Missouri farm census by counties 1949, for year ending December 31, 1949. Jefferson City,1950. 16 p. 252.47 Ag8

39648 MOZAMBIQUE. REPARTIÇÃO TECNICA DE ESTATISTICA. Estatística agrícola 1943 [Agricultural statistics 1943]. Lourenço Marques,1950. 360 p. 270 M874E

39649 PORTUGAL. INSTITUTO NACIONAL DE ESTATISTICA. Estatística agrícola, 1949, Statistique agricole. Lisboa,1950. 311 p. 264 P49Ea

39650 PUERTO RICO. GOVERNMENT DEVELOPMENT BANK. The progress of Puerto Rico, U. S. A. San Juan,1950? 55 p. 280.14 P9643  
Contains agricultural statistics.

39651 SJOSTRAND, J. S. Last year's crop. (In Swedish.) Lantmannen 35:5-8. Jan.6,1951. 11 L234

39652 STATE-FEDERAL CROP AND LIVESTOCK REPORTING SERV. Minnesota State farm census, 1950. Saint Paul,1950. 10 p. 252.43 St2Ms

39653 SWEDEN. STATISTISKA CENTRALBYRÅN. Årsväxten år 1950; preliminär redogörelse [La récolte en 1950; rapport préliminaire]. 25 p. Stockholm,1950. 257.3 St2Na

French summary.

39654 UNION OF SOUTH AFRICA. UNION OFF. OF CENSUS AND STATISTICS. Official year book of the Union and of Basutoland, Bechuanaland Protectorate and Swaziland, No. 24-1948. Pretoria,1950. 1358 p. 270 C3320

Includes agriculture.

39655 UNITED NATIONS. DEPT. OF ECONOMIC AFFAIRS. STATISTICAL OFF. Statistical yearbook, 2d, 1949-50. New York,1950. 555 p. 250 Un32  
Contains agriculture and trade.

39656 U. S. BUR. OF AGRICULTURAL ECONOMICS. Oregon annual crop summary, 1950. Portland,1950. 4 p. 1.941 S8C888

39657 VENEZUELA. DIRECCION DE ECONOMÍA AGRÍCOLA. Boletín informativo de estadísticas agropecuarias, julio a diciembre de 1949, No. 6. Caracas,1950. 449 p. 255.9 Ec73

39658 VICTORIA. GOVERNMENT STATIST. Victorian year-book, 68th, 1947-48. Melbourne,1950. 644 p. 271.6 St2V

Includes agricultural statistics.

39659 WASHINGTON. DEPT. OF AGRICULTURE. Annual crop report 1950. Olympia,1951. 11 p. 2 W27Ac  
U. S. Bureau of Agricultural Economics, cooperating. Statistics.

39660 WESTERN AUSTRALIA. STATISTICIAN. Pocket year book of Western Australia, (thirty-second issue) 1950. Perth,1950. 200 p. 271.7 R26P  
Includes agricultural statistics.

39661 WESTERN AUSTRALIA. STATISTICIAN. Statistical register of Western Australia for 1947-48. V. Land settlement, agriculture, live stock, and meteorological statistics. Perth,1950. 100 p. 271.7 R26S

39662 WINBERG, I. P. Do we need a new agricultural census in the year 1951? (In Swedish.) Lantmannen 35:23-24. Jan.13,1951. 11 L234  
Sweden.

## BEVERAGES AND CONDIMENTS

39663 AKMAN. La production viti-vinicole en Turquie. Off. Internatl. du Vin. B. 24(239):36. Jan.1951. 390.8 B87

39664 BALLY, J. Le transport des vins. Nature [Paris] 3189:20-22. Jan.1951. 473 N21  
France.

39665 BAQUÉ, Z. L'Armagnac. Terre d'Oc 33:58-62. (Cont.) Feb.1951. 14 Ar5  
Wine industry.

39666 BERNSTEIN, E. M. El precio del café y la política monetaria. Banco Nac. de Nicaragua. Rev. Trimes. 9(38):13-20. July/Sept.1950. 284.9 B2263

39667 BIEDERMANN, W. Über die verwendung von Ionenaustauschern in der Getränkeindustrie. Schweiz. Z. f. Obst- u. Weinbau 60:44-48. (Concl.) Feb.10,1951. 80 Sch9

39668 BLOMMER, A. J. The outlook for chocolate. Confectioner 35(10):9. Feb.1951. 389.8 N81

39669 BOVARD, P. Les maladies bactériennes du vin: la tournee. Colon Franç. de Tunisie 44(2181):1,3. Jan.20,1951. 24 C712

39670 BREMOND, E. Les moûts de raisins d'Algérie de la récolte 1950. Algérie Agr. et Vitic. 29(1151):1-2. Jan.20,1951. 24 AL37

Also in Rev. Agr. de l'Afrique du Nord 49:6-9. Jan.5, 1951. 80 R326

39671 BRIAND, G. Le cognac et les droits de succession. Vrai Cognac 32:394-395. Dec.1950. 95.8 V95

39672 BUXBAUM, W. Weinbewertung nach punkten; ein mittel zur qualitätssteigerung und absatzförderung. Weinbau 5:596-597. Dec.17,1950. 390.8 W432

39673 CANSTEIN, F. VON. Die arbeit des Weinbaureferates im jahre 1950. Weinbau 6:23-24. Jan.21,1951. 390.8 W432  
Germany.

39674 CASTELLINI, A. Preservation of wine in a year of many moths. (In Italian.) Agr. Tosc. 6:20. Jan. 1951. 16 Ag827

Treatment with sulphur dioxide and pasteurization.

39675 CHAPIDZE, É. É. We are completing with honor the Five-Year Plan. (In Russian.) Vinodel. i Vinograd. SSSR. 10(10):53-54. Oct.1950. 95.8 V77  
In wine production at Abrau-Dürso Combine of Champagne Wines.

39676 CHOGOVADZE, SH. K. Ripening and aging of wine. (In Russian.) Vinodel. i Vinograd. SSSR. 10(9):10-14. Sept.1950. 95.8 V77

39677 COBOS, J. Los vinos de Montilla y Moriles. Semana Vitivinif. 5(230):38-39. Nov.25,1950. 95.8 Se5  
Córdoba, Spain.

39678 COLOMER, R. Las vendimias se suceden, pero no se repiten. Semana Vitivinif. 5(230):6-7. Nov.25, 1950. 95.8 Se5

Outlook for Spanish wine industry.

39679 COMRIE, A. A. D. The colloidal stability of beer. Brewers' J. 87(1026):109-111. (To be cont.) Feb.21,1951. 390.8 B753

39680 CONGRÈS INTERNATIONAL DE LA VIGNE ET DU VIN, 6, ATHENS, 1950. [Rapports et exposés]. Off. Internatl. du Vin. B. 23(238):16-117;24(239):37-112. (Concl.) Dec.1950-Jan.1951. 390.8 B87



- 39681 CORBINO, S. Application of cooperative principles in wine production. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 15:7. Feb.28,1951. 281.8 Ag3
- 39682 GRUZ R., C. Fabricación de sidra champani-zada. *Agrario* 15(417):18-19,28. (Concl.) Oct.1950. 9.3 Ag85
- 39683 DALMASSO, G. An old problem solved: reform of the wine instruction institutes. (In Italian.) *Colt. e Glor. Vinic. Ital.* 96:311-312. Nov.30,1950. 16 C72
- 39684 DALMASSO, G. Enormity in matter of protecting designations of wine origin. (In Italian.) *Colt. e Glor. Vinic. Ital.* 96:316-317. Nov.30,1950. 16 C72
- 39685 DALMASSO, G. A propos of the protection of certain designations of origin. (In Italian.) *Colt. e Glor. Vinic. Ital.* 96:344-345. Dec.31,1950. 16 C72
- Wine.
- 39686 DALMASSO, G. Viticulture and wine manufacture in Venezia. (In Italian.) *Colt. e Glor. Vinic. Ital.* 97(1):10-11. Jan.15,1951. 16 C72
- 39687 D'ACHENKO, G. Ia. Calculation of alcohol in must strengthening. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):25-26. Oct.1950. 95.8 V77
- 39688 DUNCAN, W. R. J. Trends in Indian tea. *Coffee & Tea Indus.* 74(2):49,65;(3):49,51. (To be cont.) Feb.-Mar.1951. 389.8 Sp4
- 39689 DUPRE, G. Rapport de l'Administration des Contributions Indirectes a la Commission Consultative de la Viticulture. *Off. Internatl. du Vin. B.* 24(239):17-28. Jan.1951. 390.8 B87
- France.
- 39690 DUSSAILLANT, A. Situation de la viticulture chilienne en 1950. *Off. Internatl. du Vin. B.* 23(238):6-7. Dec.1950. 390.8 B87
- Grape acreage and wine production.
- 39691 EATHER, H. W. Australia puts ginger into its farm progress. *Canner* 112(7):22. Feb.17,1951. 286.83 C16
- Ginger industry.
- 39692 ENDERS, C., and ZOCHER, A. Über die physiologische wirkung des hopfens. *Versanst. f. das Gärungsgewerbe. Mitt.* 1950:150-154. Ref. Nov./Dec.1950. 390.08 V67
- 39693 ENGELHARDT. Erster abstich ist entscheidend! Vom traubengut und der weinpflge hängen ausbau und güte des kostbaren produktes ab. *Bauern Ztg.* 3:533-534. Nov.10,1950. 18 B324
- 39694 FABRE, R., ROUGIER, G., and ROUGIÉ, J. Sur la toxicité comparée du vin et de son eau-de-vie de premier bout. *Soc. de Biol. Compt. Rend.* 144:1498-1499. Nov.1950. 442.9 P21
- 39695 FEITO LÓPEZ, M. De cara a la nueva elaboración. *Semana Vitivinc.* 5(230):26-27. Nov.25,1950. 95.8 Se5
- Price of grapes and wine in Spain.
- 39696 FERNANDEZ-COLLADO, D. El vino en la literatura. *Inform. Com. Espan.* 207:1599-1601. Nov. 1950. 286.8 In3
- 39697 FIGUEROA, F. Historías de Jerez y sus vinos. *Semana Vitivinc.* 5(230):54-55. Nov.25,1950. 95.8 Se5
- 39698 FLORENZANO, G. Two new species of asporigenic yeasts isolated from wine (*Trichosporon intermedium*, n. sp. and *Brettanomyces Custersii*, n. sp.). (In Italian.) *Ricerca Sci.* 20:1494-1498. Oct.1950. 475 It1
- 39699 GORELOV, B. A. First season of wine manufacture. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):59. Oct.1950. 95.8 V77
- Voroshilov Vinsovkhoz of the Combine of Champagne Wines in Kirgiz SSR.
- 39700 GUIMARÃES, A. Even coffee requires a minimum price. (In Portuguese.) *Orientação Econ. e Financ.* 6(89):26,38. Nov.1950. 280.8 Or42
- Brazil.
- 39701 HARLER, C. R. The withering of tea leaf: a critical study of the first process in black tea manufacture. *Nyasaland Agr. Q. J.* 9:28-46. Apr.1950. 24 N983
- Includes equipment.
- 39702 HELM, E. Beer stability and head retention. *Inst. Brewing J.* 57:28-35. Ref. Jan./Feb.1951. 390.9 In7
- 39703 HESS, E. Brauversuche mit dem wasserenthärtungsmittel "brau-aquasol." *Versanst. f. das Gärungsgewerbe. Mitt.* 1950:155-156. Nov./Dec.1950. 390.08 V67
- 39704 HRABOWSKI, W. Zur mikroskopie der bucheckernschalen als zimt-ersatz. *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 92:27-30. Jan.1951. 384 Z39
- 39705 HURLIMANN, H. Centrifuges in the brewery. *Inst. Brewing J.* 57:21-27. Jan./Feb.1951. 390.9 In7
- 39706 IAKOVLEV, F. G. Improving the quality and increasing the yield of must-flow. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(9):50-51. Sept.1950. 95.8 V77
- Grape processing equipment.
- 39707 IVANOV, T. Recherches sur la coloration naturelle des eaux-de-vie au cours de leur conservation dans des barils de chêne et de murier. (In Bulgarian.) *Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Spis.* 18(3):17-28. 1950. 106.3 R32
- French summary.
- 39708 JAQUEMIN, L. La temperatura en enologia. *Vinos, Viñas y Frutas* 45:319-324. Jan.1951. 9 Ag89
- 39709 JILKE, W. Beitrag zur statistik der rheingauer moste des herbstes 1948. *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 91:418-422. Dec.1950. 384 Z39
- 39710 KEMPF, N. W. Cocoa bean and chocolate; factors playing important part in final creation of chocolate flavor explained. *Internatl. Confectioner* 61(2):32,42. Feb.1951. 389.8 In214
- 39711 KHARCHENKO, N. A. On technical outfitting of enterprises of the Ukrainian wine manufacturing industry. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(9):38. Sept. 1950. 95.8 V77
- 39712 KHOKHLOV, K. A. On the control of lactic acid fermentation [in wine manufacture]. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(9):35. Sept.1950. 95.8 V77
- 39713 KIELHÖFER. Die behandlung der 1950er weine. *Weinbau* 5:598. Dec.17,1950. 390.8 W432
- 39714 KIELHÖFER, E. Die eiweisstrübung des weines. IV. *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 92:1-9. Jan.1951. 384 Z39
- 39715 KLAUS, E. Badens weinbau in der krise. *Bauern Ztg.* 3:513-514. Nov.3,1950. 18 B324
- 39716 KOCH, J. Modern chocolate mixing. *Confectionery Prod.* 17:101,103,105. Feb.1951. 389.8 C762
- 39717 KOSSEN, S. Advertising writes wine's future. *Spirits* 15(9):15-16,49. Sept.1948. 390.8 Am34
- 39718 KRAMARENKO, K. S. On norms of wine losses. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(9):32-33. Sept.1950. 95.8 V77
- In wine factories.
- 39719 KRASNOKUTSKAIA, S. V. Possibility of producing dessert wines without alcoholization. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(9):16-20. Sept.1950. 95.8 V77
- 39720 LAAS, D. Gewürzextrakte, aromen und essenzen. *Seifen-Ole-Fette-Wachse* 77:9-12. (Concl.) Jan. 3,1951. 307.8 Se4
- 39721 LA ROTONDA, C. No more sulfuric acid, no more "metabisulfite" in wine manufacture. (In Italian.) *Humus* 6(11):25-26. Nov.1950. 16 H88
- 39722 LÉPEZ, R. E. Valor comercial del vino común de mesa por traslado. *Vinos, Viñas y Frutas* 45:328-338. Jan.1951. 9 Ag89
- Wine types and grades.
- 39723 LIPIS, B. V. Labeled wines of Crimean Wine Combine. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(9):27-29. Sept.1950. 95.8 V77
- 39724 LOZA, V. M., and SAUTIN, V. M. On time of decanting [champagne] wine from yeasts. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(9):14-16. Sept.1950. 95.8 V77
- 39725 LUND, A. Some beer-spoilage yeasts and their heat-resistance. *Inst. Brewing J.* 57:36-41. Jan./Feb. 1951. 390.9 In7
- 39726 MCGUGIN, F. W. Tartrates in berry wines. *Wines & Vines* 32(2):24-26. Ref. Feb.1951. 95.8 C122
- 39727 MARANON, G. El vino sobre el tapete. *Vinos, Viñas y Frutas* 45:295-298. Dec.1950. 9 Ag89
- Spain.
- 39728 MARESCALCHI, C. A jewel for the eye: limpid wine. (In Italian.) *Terra e Sole* 102:52. Feb.1951. 16 T273
- Manufacture.
- 39729 MARTIN, F. Le rhum. *Rev. Internatl. des Prod. Colon.* 26(256):23, inside back cover. Jan.1951. 286.8 R326
- 39730 MAVEROFF, A. Quebradura férrica: su prevención en los vinos embotellados. *Vinos, Viñas y Frutas* 45:284-286,288-290. Dec.1950. 9 Ag89
- English summary.



- 39731 MEL'ISTER, A. B. Heat treatment of wines on the enterprises of Massandra Combine. (In Russian.) Vinodel. i Vinograd. SSSR. 10(9):24-27. Sept.1950. 95.8 V77
- 39732 MENDLIK, F. Development of brewing research in Holland. Amer. Brewer 84(2):29-31,93. Feb. 1951. 390.8 Am3
- 39733 MICKEVICZ, M. J. Modern chocolate testing methods. Confectionery-Ice Cream World 45(9):6,23. Mar.2,1951. 389.8 C767
- 39734 MIR, R. M. Cooperativas de elaboración y destilación de vinos. Cult. Mod. 33:448-449. Dec.1950. 15 C89 Spain.
- 39735 MOGIL'ANSKIĬ, N. K. Peculiarities of wine spoilage in Tadzhikistan. (In Russian.) Vinodel. i Vinograd. SSSR. 10(9):33-34. Sept.1950. 95.8 V77  
Measures for control of acetic and lactic acid bacteria.
- 39736 MONCRIEFF, R. W. The aroma of coffee. 1. Coffee & Tea Indus. 74(2):11,39-40,42. Ref. Feb.1951. 389.8 Sp4
- 39737 MONSERRAT, J. Problems of viticulture. (In Portuguese.) Cooperativismo [Rio de Janeiro] 5(55):2,4, 22-23. Jan.1951. 280.28 C7856  
The industry in Brazil.
- 39738 MOSIASHVILI, G. I. Importance of R and S forms of yeasts [Saccharomyces ellipsoideus] in wine manufacture. (In Russian.) Vinodel. i Vinograd. SSSR. 10(9):30-31. Sept.1950. 95.8 V77
- 39739 NECHAEV, L. N. Wine manufacture in small quantities [for research purposes]. (In Russian.) Vinodel. i Vinograd. SSSR. 10(9):22-23. Sept.1950. 95.8 V77
- 39740 NÈGRE, E., and others. Étude d'appareils vinicoles du point de vue oenologique. Indus. Agr. et Aliment. 67:567-585. (To be cont.) Dec.1950. 383 As7  
M. Marichal, G. Marteau, and R. Cordonnier, joint authors.  
English summary.
- 39741 OKHREMENKO, N. S. Scientific-research work in wine production. (In Russian.) Vinodel. i Vinograd. SSSR. 10(9):53-56. Sept.1950. 95.8 V77
- 39742 O'NEAL, R., MEES, L., and CRUESS, W. V. Observations on the fining of wines with caseln. Food Technol. 5(2):64-68. Ref. Feb.1951. 389.8 F7398
- 39743 PALIERI, G., and GADDO, F. DI. The economics of vine culture in 1949. (In Italian.) Riv. di Econ. Agr. 5:101-111. 1950. 281.8 R52  
English summary.  
Italy.
- 39744 PARKS, W. J. Closures and the torque tester. Wines & Vines 32(2):22. Feb.1951. 95.8 C122
- 39745 POLITOVA-SOVZENKO, T. K. Importance of tannins and pigments in the production of Madeira wine. (In Russian.) Vinodel. i Vinograd. SSSR. 10(10):21-24. Oct.1950. 95.8 V77
- 39746 REITER, R. Das steirische weinjahr 1950. Osterr. Weintztg. 6:1-2. Jan.10,1951. 390.8 Os7
- 39747 RIBÉREAU-GAYON, J., LAFOURCADE, S., and LAFON, M. Études sur la fermentation alcoolique du moût de raisin. Indus. Agr. et Aliment. 67:477-485. Nov.1950. 383 As7  
English summary.
- 39748 RICASOLI, L. Propaganda and sale. (In Italian.) Terra [Firenze] 62(2):2. Jan.14,1951. 16 T274 Wine.
- 39749 RIVERO PEREDA, S. Notas sobre los vinos de Jerez. Inform. Com. Españ. 207:1524-1531. Nov. 1950. 286.8 In3  
Text in English, p. 1550-1552.
- 39750 RODOPULO, A. K. Role of tannins in the oxidation of musts and wines. (In Russian.) Vinodel. i Vinograd. SSSR. 10(9):20-21. Sept.1950. 95.8 V77
- 39751 SALMON, E. S. Thirty-third report on the trial of new varieties of hops, 1949. Inst. Brewing J. 57: 14-20. Jan./Feb.1951. 390.9 In7
- 39752 SCHILD, E., and HUYMANN, M. VON. Zur kenntnis des oxidations-reduktionszustandes von würze und bier. Brauwissenschaft 1951:1-5. Ref. Jan.1951. 390.8 B733  
English summary.
- 39753 SCHREIBER, V., and MODER, H. Das reduktions-oxydations-potential in der brauerei, seine bedeutung, theorie und praktische bestimmung. Versan. f. das Gärungsgewerbe. Mitt. 1950:159-166. Ref. Nov./Dec. 1950. 390.08 V67
- 39754 SERPIERI, A. Wine crisis? (In Italian.) Colt. e Glor. Vinic. Ital. 97(1):6-7. Jan.15,1951. 16 C72
- 39755 SHAWCROSS, G. The romance of coffee began in Ethiopia. Farm & Ranch Rev. 47(2):14-15. Feb.1951. 7 F223
- 39756 SNOEK, C. The production of brandies and spirit in South Africa. Wine & Spirit 20:10-11. Jan.1951. 390.8 W725
- 39757 SOKHADZE, P. G. The wine making season in Georgia [U.S.S.R.]. (In Russian.) Vinodel. i Vinograd. SSSR. 10(10):52-53. Oct.1950. 95.8 V77
- 39758 STIMART, A. Le cidre: utilisation des fruits belges. Fruit Belge 19(113):12-13. Jan.1951. 80 F9493
- 39759 TARIN SABATER, J. Campaña vinícola 1950-51; volumen de la cosecha y posibilidades de la nueva campaña. Semana Vitiviníc. 5(230):50-53. Nov.25,1950. 95.8 Se5 Spain.
- 39760 TESTA, J. Africa and coffee. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 25:957-960. Dec.1950. 68.29 Sa63
- 39761 THOMASSIN, C. Ginebra holandesa. Semana Vitiviníc. 5(230):46-47. Nov.25,1950. 95.8 Se5
- 39762 TÜRIN, S. T. Checking the yield of must, wine material and wine. (In Russian.) Vinodel. i Vinograd. SSSR. 10(10):26-27. Oct.1950. 95.8 V77  
Method of pressing grapes.
- 39763 TRIEST, F. J. Flavoring materials from domestic crops. 2-3. Coffee & Tea Indus. 74(2):61;(3):59-61 Feb.-Mar.1951. 389.8 Sp4
- 39764 WEISS, J. Nachdenkliches über den fränkischen weinbau. Weinbau 6:34. Jan.21,1951. 390.8 W432
- 39765 WELSH, C. W. Vacuum sealing. Wines & Vines 32(2):19. Feb.1951. 95.8 C122
- 39766 WILD, E. Coffee. Grocer Mon. Sup. 2(2):18-19. Feb.1951. 286.83 G896  
Chiefly history.
- 39767 WILLIAMS, H. The relation of advertising to production. Wines & Vines 32(2):6-7. Feb.1951. 95.8 C122
- 39768 YANG, H. Y., and WIEGAND, E. H. The keeping quality of berry wines. Wines & Vines 33(3):22-23. Mar.1951. 95.8 C122
- 39769 YANG, H. Y., and WIEGAND, E. H. A method for maintaining free sulfur dioxide content in wine. Food Technol. 5:103-106. Ref. Mar.1951. 389.8 F7398
- 39770 ZHENTIL, N. M. Scientific-research work of Transcaucasian Filial of Magarach Institute. (In Russian.) Vinodel. i Vinograd. SSSR. 10(9):60-61. Sept.1950. 95.8 V77  
In champagne manufacture.

## DAIRY PRODUCTS

- 39771 ANGEVINE, N. C. Yogurt-fermented milk. Milk Dealer 40(5):50-51,62-64. Feb.1951. 44.8 M595  
Similar title in Milk Plant Mon. 40(2):22-24. Feb.1951. 44.8 C864 and in South. Dairy Prod. J. 49(3):32,110-112. Mar.1951. 44.8 So83
- 39772 BARNUM, H. J. Denver solves its milk supply problem. Hoard's Dairyman 96:250,256. Mar.25,1951. 44.8 H65
- 39773 BEATTIE, D. M. Some interesting phases of the cheese industry. Canad. Dairy & Ice Cream J. 30(2): 34,36,38,62. Feb.1951. 44.8 C162
- 39774 BUBNOV, D. Economizing on raw material and on supplies [in dairy industry]. (In Russian.) Moloch. Promysh. 11(9):8-9. Sept.1950. 44.8 M734
- 39775 BUEHRIG, B. Dairy fruit drink large profit item. South. Dairy Prod. J. 49(2):24,108-110. Feb.1951. 44.8 So83
- 39776 BUSHNELL, H. H. Replacements—Los Angeles County goes farther afield in search for dairy cows. West. Dairy J. 7(4):50. Feb.1951. 44.8 W524  
The dairy industry.
- 39777 CARNEIRO FILHO, J. J. Swiss Milk Commission. (In Portuguese.) B. do Leite (ser.4)4(40):9. Oct. 1950. 44.8 B633
- 39778 COLLIER, S. G. Developments in British dairy farming. Certif. Milk 26(3):14,18. Mar.1951. 44.8 C33
- 39779 COLVARD, D. W. Trends in N. C. dairy industry. N. C. Dept. Agr. Agr. Rev. 26(4):2. Feb.15,1951. 2 N81Ag
- 39780 DOPSON, L. Town dairy—Paris, Glasgow, and London. Dairy Indus. 16:150,158. Feb.1951. 44.8 D1427



- 39781 DOWDEN, N. The Swedish dairy trade. *Milk Indus.* 31:57-58. Feb.1951. 44.8 M593
- 39782 FITCH, J. B. A dairymen talks about the future. *Kans. State Bd. Agr. Rpt.* 69(296):19-27. Apr.1950. 2 K13Re
- 39783 GARBARINO, A. J., and BROWN, C. H. Seasonality of supply and utilization of milk in Tennessee, 1949. *Tenn. Agr. Expt. Sta. Rur. Res. Ser. Monog.* 264, 41 p. Feb.13,1951. 173.2 W89Co
- 39784 GAUMNITZ, E. W. The outlook for the cheese industry. *Cheese Trler* 11(2):1,5-6. Apr.1950. 44.8 C412
- 39785 GUEROULT, G. La production laitière en Suède. *Vie Lait.* 7(124):1-2. Jan.25,1951. 44.8 V87
- 39786 GUSLER, G. Dairying looks good for '51. *Mich. Farmer* 215:240-241. Mar.17,1951. 6 M58  
Similar title in *Nebr. Farmer* 93(6):18,32. Mar.17,1951. 6 N27 and in *Ohio Farmer* 207(5):24-25. Mar.3,1951. 6 Oh3
- 39787 HERZ, H. Kurzer blick in das milchversorgungsproblem Indiens. *Schweiz. Zentbl. f. Milchwirt.* 39:306. (Concl.) Dec.29,1950. 44.8 Sch93
- 39788 HILLER, G. A. Lollies—they have come to stay. *Ice Cream Indus.* 26:669-671. Dec.1950. 389.8 Ic24
- 39789 ILLINOIS DAIRY PRODUCTS ASSOCIATION. The Illinois dairy supply handbook; where to get your dairy machinery and supplies from an associate member, 1950. Chicago,1950. 55 p. 225 IL68
- 39790 INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS. Proceedings of the 46th annual convention, v. 1. General sessions, at Atlantic City, New Jersey, October 18th, 19th, 20th, 1950. n.p. 1950. 78 p. 389.9 In83
- 39791 JAGGARD, G., and RANSOM, M. W. Yogurt buttermilk. *Milk Dealer* 40(5):44,66,68,71. Feb.1951. 44.8 M595
- 39792 KELLER, H. Milchwirtschaftliches rechnen. *Molk-Ztg.* 5:73-74. (Cont.) Jan.18,1951. 44.8 M735
- 39793 KELLOGG, E. B. "The South can become the dairy section of the country"; the milk dealer's responsibility to his producer. *South. Dairy Prod. J.* 49(3):140, 142-144,146. Mar.1951. 44.8 So83
- 39794 LABET, M. L'industrie fromagère aux U. S. A. *Indus. Lait.* (n.s.)52:11-12. Jan.1951. 44.8 In2
- 39795 LECLERC, M. Efficient accounting system aids dairy operation. *Canad. Dairy & Ice Cream J.* 30(2):40,42,44,72. Feb.1951. 44.8 C162
- 39796 LERAILLEZ, L. L'industrie du beurre aux U. S. A. *Indus. Lait.* (n.s.)52:7-10. Jan.1951. 44.8 In2
- 39797 MCCLAIN, E. B. Costs vs. profits in the milk plant. (*Digest.*) *Beacon* 1951:62-63,72. 44.8 B35
- 39798 MERISH, F. Monthly profit and loss statements for better business management. *Milk Plant Mon.* 40(2):52-53,55. Feb.1951. 44.8 C864
- 39799 MINUT, J. Gegenwärtiger stand der milchwirtschaft in Brasilien. I. Die milchversorgung von Rio de Janeiro. *Milchwissenschaft* 6:10-12. Jan.1951. 44.8 M5933  
Also in *Milchwissenschaft* 6:43-46. Feb.1951. 44.8 M5933
- 39800 NATIONAL COMMITTEE ON BOYS AND GIRLS CLUB WORK. National 4-H dairy foods demonstration awards program; regulations, 1951. Chicago,1950. 4 p. 275.29 N217
- 39801 NELSON, J. A. Dairy industry in Montana. *Mont. Farmer-Stockman* 38(10):7. Jan.15,1951. 6 M764
- 39802 NEW ZEALAND DAIRY BOARD. 26th annual report year ended July 31, 1950. Wellington,1950. 76 p. 44.9 N489A
- 39803 PAPIN, J. Propos sur le lait. *Paysan Franç.* 26(398):9-10. (To be cont.) Feb.1951. 14 P29
- 39804 PICARD, A. J. Le produit de qualité, gage de prospérité des Charentes. *Libération Paysanne* 8(300):5-6. Feb.15,1951. 14 L61  
Dairy industry.
- 39805 PRESTON, C. R. What is new at the dairy industries exposition. *Internatl. Assoc. Ice Cream Mfr. Rpt. Proc.* 46(2):6-7. 1950. 389.9 In83
- 39806 PUTNAM, G. W., and WAKEMAN, A. H. Dairy plant construction and sanitation. *Internatl. Assoc. Ice Cream Mfr. Rpt. Proc.* 46(2):67-71. 1950. 389.9 In83  
Includes discussion.  
Also in *Ice Cream Field* 57(2):26,55-56. Feb.1951. 389.8 Ic23
- 39807 RAMIREZ, C. A. La leyenda del queso. *Res* 19:25660-25661. Jan.20,1951. 286.85 R31
- 39808 RIBEIRO, J. A. Itanhandú—the Mecca of dairymen. (In Portuguese.) *B. do Leite* (ser.4/4(40):11. Oct. 1950. 44.8 B633
- 39809 RICHARDS, P. Dairying in the national emergency. *Pacific Dairy Rev.* 55(3):10,28. Mar.1951. 286.85 P11
- 39810 RIDDET, W. Dairying expansion completely justified. *New Zeal. Dairy Exporter* 25(12):14-16,19. June 1950. 44.8 N484
- 39811 ROOSENSCHOON, C. F. La situation actuelle de l'industrie laitière en Hollande. *Indus. Lait.* (n.s.)52: 13-15. Jan.1951. 44.8 In2
- 39812 RUZZIER, A. What is the truth about milk? (In Italian.) *Glor. di Agr.* 61:60. Feb.25,1951. 16 ItIG  
Situation in Italy.
- 39813 SCHULZ, W. Milchgewinnung bedingt durch klima und bodenverhältnisse in Argentinien. *Milchwissenschaft* 6:46-47. Feb.1951. 44.8 M5933  
English summary.
- 39814 SCHWEIZERISCHE MILCHKOMMISSION. 23. tätigkeitsbericht umfassend die zeit von der generalversammlung 1949 bis zur generalversammlung 1950. *Schweiz. Zentbl. f. Milchwirt.* 40:2-3. (To be cont.) Jan.5,1951. 44.8 Sch93
- 39815 SJÖHOLM, E. Our cheese problem. (In Swedish.) *Ladugården* 1950:305-307. Oct.1950. 44.8 L12  
Sweden.
- 39816 SPROULE, W. H. Training men for the dairy industry. *Canad. Dairy & Ice Cream J.* 30(2):27-28,66, 70. Feb.1951. 44.8 C162
- 39817 SWENSON, H. F. Soft ice cream; mounting sales in this type of product requires careful appraisal by industry. *Ice Cream Trade J.* 46(12):44,46,74,76-78. Dec.1950. 389.8 Ic2
- 39818 TYRER, T. G. Dairy industry; trends in production. *New Zeal. Studmasters' Annu. Rev.* 2:21. Sept. 1950. 49.7 N48
- 39819 VALDINOCI, M. The dairy-cheese crisis and damaging repercussions on livestock production. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 12:9. Feb.15,1951. 281.8 Ag3
- 39820 VIAL, E. E. Milk production in relation to a. the number of consumers and b. the raw materials used in its production. *Milk Dealers' Assoc. Metrop. N. Y. Mon. Membership Let.* 59,5 p. Feb.28,1951. 280.3449 M593
- 39821 VOLANTI, U. The cheese crisis becomes worse. (In Italian.) *Glor. di Agr.* 60:409-410. Dec.31, 1950. 16 ItIG  
Italy.
- 39822 WALLERIUS, M. J. Visual advice by Dodge. *Ext. Serv. Rev.* 22:13. Jan.1951. 1 Ex892Ex  
Dairy practices.
- 39823 WEBER, C. Milchproduktion, milchmarkt, milchsoegen. *Bas-Rhin. Agr.* 6:52. Feb.3,1951. 14 B29
- 39824 YOHE, R. S. Behind Holland's green dikes. *Prog. Farmer, Tex. Ed.* 66(3):87-88. Mar.1951. 6 T311  
Chiefly on the dairy industry.
- 39825 YOUNG, H. P. Conditions change rapidly in wartime. *Metrop. Milk Prod. News* 11(2/3):23. Feb./Mar.1951. 280.28 M56  
Dairy industry.

#### Analysis and Composition

- 39826 ABBOTT, C. W., and CLAASSENS, J. W. Determining accuracy of butter-moisture balance. *Farming So. Africa* 26(298):29-32. Jan.1951. 24 So842
- 39827 BALLARIN, A. Chemisch-physikalische gleichgewichtssysteme in der milch. *Milchwissenschaft* 6:6-10,38-43. Jan.-Feb.1951. 44.8 M5933  
English summary.
- 39828 BUCHBINDER, L., and others. Studies to formulate new media for the standard plate count of dairy products. *Pub. Health Rpt.* 66:327-340. Mar.16,1951. 151.65 P96  
Y. Baris, E. Alf, E. Reynolds, E. Dillon, V. Pessin, L. Pincus, and A. Strauss, joint authors.
- 39829 CAMUS, A., BURDIN, J., and LE GUEN, A. Le dosage de la matière grasse des crèmes par la détermination du taux d'humidité. *Lait* 31(301/302):15-20. Jan./Feb.1951. 44.8 L143
- 39830 COLAS, J., and others. Recherches sur la biochimie des composés phosphorés du lait. I. Les pré-curseurs du phosphate protéique. *Inst. Natl. Agron. Ann.* 37:5-47. Ref. 1950. 105.3 In8  
H. Le Bars, H. Simonnet, and J. Sternberg, joint authors.



- 39831 DEMETER, K. J. Über akute probleme der molke-reibakteriologie. *Milchwissenschaft* 6:18-20,48-51. Jan.-Feb.1951. 44.8 M5933
- 39832 EGDELL, J. W. and BIRD, E. R. Bacteria in pasteurized milk. *Dairy Indus.* 16:143-147,156. Feb.1951. 44.8 D1427
- 39833 FEAGAN, J. T., MORTON, R. K., and VINCENT, J. M. An improved temperature-compensated dye test for the grading of milk. *Dairy Indus.* 16:151-153. Feb.1951. 44.8 D1427
- 39834 FLAKE, J. C., and GLOVER, D. W. Why all the fuss about bacteria? *Hoard's Dairyman* 96:201,223-229. Mar.10,1951. 44.8 H65  
In milk.
- 39835 GARASSINI, L. A. Selección de bacterias del aroma de la mantequilla. *Acta Cient. Venezol.* 1:111-115. Sept./Oct.1950. 475 Ac83
- 39836 GUNDLACH, G. P., and ESMOND, C. W. For more consumption of milk by adults: what kind of low fat milk? *South. Dairy Prod. J.* 49(2):40,50. Feb.1951. 44.8 So83
- 39837 HANKE, E. Bestimmungen des säuregehaltes der milch. *Molk.-Ztg.* 5:73. (Cont.) Jan.18,1951. 44.8 M735
- 39838 HANKE, E. Milchwirtschaftlicher laboratoriums-dienst. *Molk.-Ztg.* 5:151-152. (Cont.) Feb.8,1951. 44.8 M735
- Determination of milk acidity.
- 39839 HASKELL, W. H. Field test sets in sanitation. *Amer. Milk Rev.* 13(3):44,56. Mar.1951. 44.8 Am38
- 39840 KING, J. O. L. Butter fat content of milk. *Brit. Agr. B.* 3:236-240. 1950/51. 10 B776
- 39841 KINSEY, H. D. Keeping the milk moving. *Inter-State Milk Prod. Rev.* 31(8):21. Dec.1950. 280.28 In83
- Annual report of the Field and Test Department of the Inter-State Milk Producers' Cooperative.
- 39842 KIVENKO, S., and ROMANOVICH, T. Yeast infection in the production of sweetened condensed milk. (In Russian.) *Moloch. Promysh.* 11(9):18-19. Sept.1950. 44.8 M734
- 39843 LARSON, B. L., and JENNESS, R. The reducing capacity of milk as measured by an iodimetric titration. *J. Dairy Sci.* 33:896-903. Ref. Dec.1950. 44.8 J822
- 39844 LOYD, C. A modified Babcock test bottle. *Internatl. Assoc. Ice Cream Mfr. Rpt. Proc.* 46(2):125-130. 1950. 389.9 In83
- 39845 MCLEOD, J. A., JR. New research project seeks detection test for bitterweed in fluid milk supplies. *South. Dairy Prod. J.* 49(2):28,107. Feb.1951. 44.8 So83
- 39846 MALUSHKO, V. Properties of rennet curds from the milk of cows in the mountainous zone. (In Russian.) *Moloch. Promysh.* 11(9):33-38. Sept.1950. 44.8 M734
- 39847 MEYN, A., and STÖFFLER, H. Zur kenntnis und systematik der in der milch vorkommenden mycobakterien. *Milchwissenschaft* 6:15-18. Ref. Jan.1951. 44.8 M5933
- English summary.
- 39848 PATTON, S. Studies of heated milk. III. Mode of formation of certain furan compounds. *J. Dairy Sci.* 33:904-910. Ref. Dec.1950. 44.8 J822
- 39849 PLIAKHIN, G. Electric device for determining the salt content in butter. (In Russian.) *Moloch. Promysh.* 11(9):30-31. Sept.1950. 44.8 M734
- 39850 POLONOVSKI, M., ROBERT, M., and ROBERT, L. Cinétique de la révélation de la xanthine-déhydrase du lait de vache. *Soc. de Chim. Biol. B.* 32:862-867. 1950. 383 So1
- 39851 POLONOVSKI, M., and others. Données nouvelles sur la révélation de la xanthine-déhydrase du lait par les agents chimiques. *Soc. de Chim. Biol. B.* 32:855-861. 1950. 383 So1
- L. Baudu, M. Robert, and L. Robert, joint authors.
- 39852 PROVAN, A. L. Why does butterfat decline? *Farmers Wk. (London)* 34(7):51. Feb.16,1951. 10 F2226
- 39853 ROEDER, G. Studien über die säure- und salzverhältnisse in milch und molke. *Milchwissenschaft* 6:54-57. (Cont.) Feb.1951. 44.8 M5933
- 39854 SCHAFFER, P. S., and HOLM, G. E. The determination of linoleic acid in milk fat. *J. Dairy Sci.* 33:865-869. Ref. Dec.1950. 44.8 J822
- 39855 SCHWARZKOPF, V. Butter fat samples as affected by weigh can design. *Beacon* 1951:100-101,104. 44.8 B35
- 39856 SEIDLER, L. Beiträge zur kenntnis der zusammensetzung der ziegenmilch, insbesondere auch im Hinblick auf den gehalt an den verschiedenen eiweisskörpern, während einer laktationsperiode. *Milchwissenschaft* 6:58-61. (To be cont.) Feb.1951. 44.8 M5933
- 39857 SHILOVICH, M. Determining the degree of cheese ripeness. (In Russian.) *Moloch. Promysh.* 11(9):43-44. Sept.1950. 44.8 M734
- 39858 SMITH, R. Standard plate counts important in quality control. *Canad. Dairy & Ice Cream J.* 30(2):64, 72. Feb.1951. 44.8 C162
- 39859 TAMARCHENKO, M. E., and others. Determining the fat content in milk of cows per milking. (In Russian.) *Sotsialist. Zhivotnovod.* 12(11):92-93. Nov. 1950. 49 So71
- S. B. Finkel', N. I. Tšibizov, and D. S. Lebedev, joint authors.
- 39860 ZIMMERMAN, H. K. Proteolytic enzymes of ripening Cheddar cheese. *Iowa State Col. J. Sci.* 25:389-391. Jan.1951. 470 Io9
- Abstract of thesis (Ph. D.).
- Consumption and Utilization**
- 39861 CARLINER, L. A. A warning and a challenge to ice cream manufacturers. *Beacon* 1951:22-23. 44.8 B35
- Consumer preferences.
- 39862 JACK, E. L., and HAYNES, V. M. Consumer preference for bread containing different levels of non-fat dry milk solids. *Food Res.* 16:57-61. Jan./Feb.1951. 389.8 F7322
- 39863 MENUZ, C. Afloat or ashore the Navy likes ice cream. *Ice Cream Trade J.* 47:44-45,60. Jan.1951. 389.8 Ic2
- 39864 SPENCER, L. Trends and influencing factors in consumption of dairy products. *Beacon* 1951:58-61. 44.8 B35
- Distribution, Marketing, and Transportation**
- 39865 AMERICAN DAIRY ASSOCIATION. ADA market study reveals buying habits of the consuming public. *Beacon* 1951:70-72. 44.8 B35
- Ice cream.
- 39866 ANDERSEN, L. C. Distributing delivery costs to products sold. *South. Dairy Prod. J.* 49(3):64-66,74-75. Mar.1951. 44.8 So83
- Ice cream.
- 39867 ATKINSON, F. It can be done in '51. *Ice Cream Field* 57:37,80-83. Jan.1951. 389.8 Ic23
- 39868 BACHMANN, H. Möglichkeiten zur absatzsteigerung der trinkmilch. *Molk.-Ztg.* 5:34-35. Jan.11, 1951. 44.8 M735
- Germany.
- 39869 BEHMER, M. L. A. Transportation of milk; technical and economic problems. (In Portuguese.) *B. do Leite (ser.4)* 4(40):1-4. Oct.1950. 44.8 B633
- Brazil.
- 39870 BENNETT, E. Your plant in your schools. *Internatl. Assoc. Ice Cream Mfr. Rpt. Proc.* 46(1):14-19. 1950. 389.9 In83
- Public relations for the dairy industry.
- 39871 BIGMORE, W. D. The market for milk. *Agr. Prog.* 25:50-54. 1950. 10 Ag86
- 39872 BREART, G. Que va faire le marché laitier? *J. de la France Agr.* 7:1337,1339. Jan.26/Feb.1,1951. 14 J829
- 39873 BUHLE, Was bringt das neue milchgesetz? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:195-196. Feb.8,1951. 18 L2346
- Market regulation and price control.
- 39874 BUSHEK, F. The power of pennies; how ADA uses our advertising money. *Inter-State Milk Prod. Rev.* 31(8):23,28. Dec.1950. 280.28 In83
- 39875 CAVITT, E. L. What we are doing in public relations. *Milk Dealer* 40(5):52,54,56-58. Feb.1951. 44.8 M595
- 39876 DAHLE, C. D. Marketing possibilities and manufacture of domestic and foreign type cheese. *Beacon* 1951:78-83,88. 44.8 B35
- 39877 EHRLICH, C. Erschwerung des rohmilchverkaufs ab hof. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:319. Mar.1,1951. 18 L2346
- 39878 FORT WAYNE, IND. MILK MARKET ADMINISTRATION. Fort Wayne, Indiana, milk market statistics, July, 1934 - June, 1949. *Fort Wayne, 1950.* 37 p. 280.344 F77



- 39879 GRANT, H. B. Let's get emotional! Ice Cream Field 57:22,24,26. Jan.1951. 389.8 Ic23 Marketing.
- 39880 GUNDLACH, G. P., and ESMOND, C. W. "Point 4" plan for sales. Ice Cream Field 57(2):43-44. Feb. 1951. 389.8 Ic23
- 39881 HENNERICH, G. W. Southern ice cream manufacturer: where can you look for more sales? South. Dairy Prod. J. 49(3):31,114-115. Mar.1951. 44.8 So83
- 39882 HICKS, J. W. A recent study provides figures on quantity per customer and milk delivery costs. Milk Plant Mon. 40(2):56,58. Feb.1951. 44.8 C864
- 39883 HIRSCH, D. E. Dairy co-ops meet the challenge. DPMA News 11(4):3,5. Jan.1951. 280.28 D144
- 39884 HIRSCH, H. G. Co-ops vital to Federal milk orders. News Farmer Coop. 17(12):15,20-21. Mar.1951. 166.2 N47
- 39885 HOFFMAN, O. H., JR. Our job in these times. Inter-State Milk Prod. Rev. 31(8):12-15. Dec.1950. 280.28 In83  
Inter-State Milk Producers' Cooperative.
- 39886 IJBEMA, A. Continued cooperation in the co-operative dairy industry. (In Dutch.) (Excerpts.) Zuivelbereiding en -Handel 57:5,7. Jan.2,1951. 44.8 N282
- 39887 INDIA. AGRICULTURAL MARKETING ADVISOR. Report on the marketing of milk in the Indian Union. Delhi, 1950. 214 p. (Mktg. Ser. 64) 280.39 In2
- 39888 JAMISON, H. E. We made new records in 1950 Inter-State Milk Prod. Rev. 31(8):16-17. Dec.1950. 280.28 In83  
Inter-State Milk Producers' Cooperative.
- 39889 JOHNSON, K. E. Milk producers' associations. Nebr. Agr. Col. Ext. E. C. 1319,13 p. Dec.1950. 275.29 N272Ex
- 39890 KIEFER, R. M. The retailer's point of view on the marketing of dairy products. Beacon 1951:20,23. 44.8 B35
- 39891 KING, H. C. Don't scrap your Infantry. Ice Cream Field 57:44,46,73. Jan.1951. 389.8 Ic23  
Selling in bulk.
- 39892 KOHR, L. A. About milk and milk dealers. Milk Dealer 40(5):48. Feb.1951. 44.8 M595
- 39893 KUTISH, J., and MILLER, A. Truck transportation in the marketing of Wisconsin milk and fluid dairy products. Wis. Agr. Col. Ext. Econ. Inform. Wis. Farmers 21(4/6),6 p. Apr./June 1950. 275.29 W75Ec
- 39894 LETRANGE, J. Evolution du marché du gruyère et adaptation des producteurs et de leurs coopératives. Jura Agr. (n.s.)68:1. Feb.1,1951. 14 J97
- 39895 MCCAMPBELL, F. H. Decentralization trend in Coast dairy markets. Pacific Dairy Rev. 55(3):24. Mar.1951. 286.85 P11
- 39896 MANITOBA. MILK CONTROL BOARD. Annual report, 1950. Winnipeg, 1950. 26 p. 280.3449 M31
- 39897 MOFFETT, B. W. Promotion of milk concentrate is renewed. Farm & Gard. [Watertown] 1951:1,3. Jan.13,1951. 6 F234
- 39898 MOLDAVAN, A. Merchandizing of homo milk. Canad. Food Indus. 22(3):39,41. Mar.1951. 286.83 C166
- 39899 NIELSEN, A. R. Let's sell milk. Beacon 1951:18-19,102-103. 44.8 B35
- 39900 NOMINÉ, H. Zur lage des elsässischen milchmarktes. Bas-Rhin Agr. 6:73-74. Feb.17,1951. 14 B29
- 39901 POLIKOFF, H. Trade barriers in the milk industry. Milk Dealer 40(5):106-109. Feb.1951. 44.8 M595
- 39902 PRITCHARD, N. T. An economic analysis of the Indianapolis fluid milk market. Iowa State Col. J. Sci 25:333-336. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 39903 RAMSTAD, P. E. Vending machines—will they increase milk consumption? Farm Res. [N. Y. State Sta.] 17:7. Jan.1951. 100 N48A
- 39904 ROGICK, F. A. Transportation of milk in the U. S. A. (In Portuguese.) B. do Leite (ser.4)4(40):4-7. 11. Oct.1950. 44.8 B633
- 39905 ROYER, R. E. Street-to-store salesmen. Ice Cream Field 57(2):48,50. Feb.1951. 389.8 Ic23
- 39906 RUEHE, H. A. Lenten season a time for promotion of cottage cheese sales. Milk Plant Mon. 40(2):26-27. Feb.1951. 44.8 C864
- 39907 SALEWSKI, H. Warum ein milchfilm? Molk.-Ztg. 5:89 Jan.25,1951. 44.8 M735
- 39908 SANDERS, P. M. Developments in the design of dairy vehicles. Dairyman 68:79,81,83,85. Feb.1951. 44.8 D1426
- 39909 SASKATCHEWAN. MILK CONTROL BOARD. Annual report 1950, for the year ended December 31, 1950. Regina, 1951. 12 p. 280.3449 Sa7
- 39910 SCHEID, H. R. Increasing bulk sales of ice cream. Ice Cream Trade J. 46(12):38-39,81-82. Dec. 1950. 389.8 Ic2
- 39911 SMITH, R. D. Dairy farmers marketing tour of New York City. Metrop. Milk Prod. News 11(2/3):14-15. Feb./Mar.1951. 280.28 M56
- 39912 SMITH, R. T. Guinea pig of merchandising. (Excerpts.) Ice Cream Rev. 34(6):43,78,80-83. Jan.1951. 389.8 Ic22
- 39913 SWANBURG, R. A. Gallonage records. Ice Cream Field 57(2):59,66,68,70. Feb.1951. 389.8 Ic23  
Delivery records.
- 39914 TEAL, E. Expand transportation operations. Mich. Milk Messenger 32(11):1,7. Mar.1951. 44.8 M582 Milk.
- 39915 U. S. EXTENSION SERV. Dairy marketing; references and procedures for keeping economic and statistical information up to date, by E. N. Searls. Washington, 1950. 39 p. 1.913 A5D14
- 39916 WARD, W. B. Vending machines increase milk consumption. Hoard's Dairyman 96:176. Feb.25,1951. 44.8 H65
- 39917 WELTY, B. H. It's time to take stock. Inter-State Milk Prod. Rev. 31(8):9-10,15. Dec.1950. 280.28 In83  
Inter-State Milk Producers' Cooperative.
- 39918 WHITE, E. L. Refrigerating retail and wholesale trucks. South. Dairy Prod. J. 49(3):28-29,106-107, 116. Mar.1951. 44.8 So83

#### Grading, Inspection, Standardization, and Quality

- 39919 BABCOCK, C. J. Importance and source of flavors in milk and milk products. Milk Plant Mon. 40(2):32,34-36. Feb.1951. 44.8 C864
- 39920 BAKALOR, S. The cheese-yielding properties of milk. Austral. Milk & Dairy Prod. J. 17(11/12):18. Nov./Dec.1950. 44.8 Au72
- 39921 BARNUM, D. A., and FISH, N. A. A report on an outbreak of food poisoning associated with milk from cows harbouring *Staphylococcus pyogenes* [i.e. *Micrococcus pyogenes aureus*]. (Abs.) Canad. J. Pub. Health 42:71. Feb.1951. 449.8 P964
- 39922 BARON, M., and HARPER, R. A further study of the relationship between the mechanical properties of Cheshire cheese and grader's judgments. Dairy Indus. 16:45-49. Jan.1951. 44.8 D1427
- 39923 CALBERT, H. E. Residual effects of chemical sanitizers. Butter, Cheese & Milk Prod. J. 42(3):30-32, 38. Mar.1951. 286.85 B98Bu
- 39924 DAHLBERG, A. C., and ADAMS, H. S. Sanitary milk and ice cream legislation in the United States. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(1):9-14. 1950. 389.9 In83
- 39925 FISTERE, C. M. The Federal ice cream standards hearing. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(2):14-21. 1950. 389.9 In83  
Includes discussion.
- 39926 FOUTS, E. L. Southern Association ice cream clinic reveals quality consciousness. South. Dairy Prod. J. 49(2):27,112-114. Feb.1951. 44.8 So83
- 39927 GODBERSEN, G. Qualitätsförderung durch erzeugungs- und betriebskontrolle. Molk.-Ztg. 5:113-114. Ref. Feb.1,1951. 44.8 M735
- 39928 GRAY, A. W. The courts consider the butterfat content of ice cream. Amer. Milk Rev. 13(3):14,63. Mar. 1951. 44.8 Am38
- 39929 IBARRA, N. H. El enemigo blanco: la leche contaminada. Campo [Tacuba] 18(705):26,28-29. Nov.30, 1950. 8 C157
- 39930 JAGGARD, G., and CRISMAN, D. W. Fermented milk and cheese, a discussion on uniform quality. Beacon 1951:92-99,103. 44.8 B35
- 39931 JENSEN, T. M. Milk grading at dairy factories. Victoria. Dept. Agr. J. 49:25-29. Jan.1951. 23 V66J
- 39932 JEPSEN, A. Milk control in Denmark. (In Danish.) Nord. Vetmed. 3:47-63. Jan.1951. 41.8 N813
- 39933 KÄSTLI. Die bedeutung des schweizerischen milchlieferungsregulativs für die gewinnung einer guten milch. Schweiz. Zentbl. f. Milchwirt. 40:17-18. Jan.26, 1951. 44.8 Sch93
- 39934 KENNEDY, R., JR. Hearing on proposed Federal standards. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(2):8-14. 1950. 389.9 In83



- 39935 KEPHART, A. E. Legal phases of milk hearings. Inter-State Milk Prod. Rev. 31(8):20. Dec.1950. 280.28 In83
- 39936 KRUK, H. Fehler beim Holländer käse; ihre ursachen und bekämpfung. Molk.-Ztg. 5:37-38. Jan.11, 1951. 44.8 M735  
Edam and Gouda.
- 39937 LELONG, R. La production laitière aux U. S. A. est une production de qualité. Indus. Lait. (n.s.) 52:3-5. Jan.1951. 44.8 In2
- 39938 MEISSNER, F. Court decisions on ordinances which restrict a market. Milk Dealer 40(5):46,64,66. Feb.1951. 44.8 M595
- 39939 RECKE. Aktuelle probleme des milch- und fettgesetzes. Molk.-Ztg. 5:97. Jan.25,1951. 44.8 M735  
Germany.
- 39940 SCHALLIBAUM, U., and MUGGLI, J. Bericht über die st. gallische alpmulchentaftung 1950. Schweiz. Milchztg. 77:21-23. Jan.12,1951. 44.8 Sch92  
Butter and cheese.
- 39941 SHUTTLEWORTH, F. Some notes relating to ice-cream. Roy. Sanit. Inst. J. 71:16-23. Jan.1951. 44.9 R812  
Includes discussion.
- 39942 TÖNJES, H. Milchhygiene bedingt erhöhten milchpreis. Molk.-Ztg. 5:111. Feb.1,1951. 44.8 M735
- 39943 VILLEGAS, D. E. Necesidad de tipificar leches comerciales. Chacra 21(240):22-23. Nov.1950. 9 C34  
Argentina.
- 39944 WISCONSIN. DEPT. OF AGRICULTURE. Quality milk from farm to table, and Biennial report—1949-1950. Wis. Dept. Agr. B. 304,69 p. Nov./Dec.1950. 2 W752Bu
- 39945 WRENSHALL, C. L. Consistent quality—greater consumption. Confectionery-Ice Cream World 45(10):10,18-19. Mar.12,1951. 389.8 C767
- Packing and Packaging
- 39946 BEANE, B. A. Marking cartons. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(2):84-86. 1950. 389.9 In83  
Includes discussion.  
Also in South. Dairy Prod. J. 49(2):48,117. Feb.1951. 44.8 So83
- 39947 EWBANK, F. C. Cleaning milk cans. Mich. Milk Messenger 32(11):6. Mar.1951. 44.8 M582
- 39948 HALBERSTADT, M. Modern packaging machinery and methods. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(2):130-132. 1950. 389.9 In83  
Includes discussion.
- 39949 KUNKEL, A. C. The half-gallon package. Ice Cream Trade J. 46(12):32,66. Dec.1950. 389.8 Ic2
- 39950 LOOMIS, A. R. Modern packaging machinery and methods. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(2):133-135. 1950. 389.9 In83
- 39951 MEISER, J. A. Ice cream; paper containers in relation to shrinkage. Beacon 1951:64-65. Ref. 44.8 B35
- 39952 PATTERSON, V. C. Modern packaging machinery and methods. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(2):135-138. 1950. 389.9 In83  
Includes discussion.
- 39953 SIDES, B. A. Modern packaging machinery and methods. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(2):132-133. 1950. 389.9 In83
- Prices, Price Control, and Rationing
- 39954 DEPARTMENT of Agriculture proposes quantity discount plan on fluid milk. Calif. Grocers Advocate 56(8):7,14,16,49. Feb.23,1951. 286.28 C12  
Statements by W. D. Haelel, S. M. White, and E. G. deStaute.
- 39955 FREI, G. Zur qualitätsbezahlung der konsummilch. Schweiz. Zentbl. f. Milchwirt. 40:14-15. Jan.19, 1951. 44.8 Sch93
- 39956 GABORIAUD, R. Psychose de hausse et prix du beurre. Libération Paysanne 8(300):1-2. Feb.15,1951. 14 L61  
France.
- 39957 HONAN, J. E. The why and how of a formula. Inter-State Milk Prod. Rev. 31(8):18-19,29. Dec.1950. 280.28 In83  
Milk prices.
- 39958 LENT, F. B. Pricing class 1 milk for Northeast markets. Metrop. Milk Prod. News 11(2/3):9. Feb./Mar.1951. 280.28 M56
- 39959 MCWILLIAMS, A. L. Hearing on orders 69 and 41. Pure Milk 25(2):6. Feb.1951. 280.28 P97  
Milk prices.
- 39960 MOREAU, R. Le paiement du lait suivant sa richesse en matière grasse. Lait 31(301/302):20-23. Jan./Feb.1951. 44.8 L143
- 39961 PIERCE, C. W. Pricing milk for Northeast markets. Metrop. Milk Prod. News 11(2/3):6,24-25. Feb./Mar.1951. 280.28 M56
- 39962 SCHAEFER, C. H. Ice cream selling prices in relation to production costs. South. Dairy Prod. J. 49(3):86-91. Mar.1951. 44.8 So83
- 39963 STRÖBELE. Zur milchpreisfrage. Württemb. Wchnbl. f. Landwirt. 118:170. Mar.3,1951. 18 W96
- 39964 SWONGER, C. W. Pricing fluid milk by formula method in Northeastern markets. Metrop. Milk Prod. News 11(2/3):7-8. Feb./Mar.1951. 280.28 M56
- 39965 VIAL, E. E. Some relationships between the condensery price and prices of other agricultural products. Milk Dealers' Assoc. Metrop. N. Y. Mon. Membership Let. 58:1-5. Jan.31,1951. 280.3449 M593
- 39966 YOUNG, H. P. Mutual proposal would reduce producer prices. Metrop. Milk Prod. News 11(2/3):14. Feb./Mar.1951. 280.28 M56
- Processing and Storage
- 39967 ALAIS, C., and BRIGANDO, J. Etude de quelques milieux simples pour la conservation de ferments lactiques. Lait 31(301/302):1-7. Jan./Feb.1951. 44.8 L143
- 39968 ANATOVSKIY, A., and IAROSHENKO, V. Preparation of fermented whey [drink]. (In Russian.) Moloch. Promysh. 11(9):31. Sept.1950. 44.8 M734
- 39969 ARBUCKLE, W. S. The principles of ice cream manufacture. Beacon 1951:74-77,84-88. 44.8 B35
- 39970 BARBER, F. W. High-temperature short-time pasteurization of ice cream mixes. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(2):121-124. 1950. 389.9 In83
- 39971 BONNET, J., and COPPENS, R. La régénération des crèmes altérées destinées à la préparation du beurre. Inst. Agron. et Sta. de Rech. de Gembloux. B. 18(1/2):5-19. 1950. 105.1 G285  
English summary.
- 39972 BOWMAN, K. W. "Why" and "how" of dairy farm sanitation. Denver Milk Prod. News 10(2):1-2. Jan.1951. 280.38 D43
- 39973 BULGAKOVA, V., and ELISEEV, I. Wider dissemination of practices of leaders [in butter and cheese manufacture]. (In Russian.) Moloch. Promysh. 11(9):4-5. Sept.1950. 44.8 M734
- 39974 CARPENTER, J. Modern wholesale ice cream manufacture. Biscuit Maker & Plant Baker 2:25-28. Jan. 1951. 389.8 B54
- 39975 CHILSON, W. H., MARTIN, W. H., and WHITNAH, C. H. Use of propyl gallate to defer development of oxidized flavor in market milk. J. Dairy Sci. 33:925-928. Dec.1950. 44.8 J822
- 39976 COLVARD, C. D. Problems in manufacture and sale of quality chocolate milk. Beacon 1951:14,90-91. 44.8 B35
- 39977 DAHLE, C. D., and LANDO, J. C. A report on shrinkage. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(2):71-79. 1950. 389.9 In83  
Includes discussion.  
Also in Ice Cream Rev. 34(6):50,52,66,68-73. Jan.1951. 389.8 Ic22 and in South. Dairy Prod. J. 49(2):32-34,36,38, 126. Feb.1951. 44.8 So83
- 39978 DAVIDOV, R. A factory of outstanding quality. (In Russian.) Moloch. Promysh. 11(9):13-14. Sept.1950. 44.8 M734  
Dairy products manufacture at Ialutorovsk dairy plant in Siberia.
- 39979 DAVIS, J. G., and ASHTON, T. R. Laboratory control of processing and manufacture. Soc. Dairy Technol. J. 4:78-102. Jan.1951. 44.8 So12  
Includes discussion.
- 39980 D'ACHENKO, P., and GODEL', A. On quality of water for butter manufacturing factories. (In Russian.) Moloch. Promysh. 11(9):44-47. Sept.1950. 44.8 M734
- 39981 DIBBERN, H. Schmelzsalze—ihre zusammensetzung und anwendung. Molk.-Ztg. 5:92. Jan.25,1951. 44.8 M735  
In processed cheese manufacture.
- 39982 DOLZHANOV, P. Laminated regenerative pasteurizers. (In Russian.) Moloch. Promysh. 11(9):20-27. Sept.1950. 44.8 M734  
In milk pasteurization.



- 39983 ECK, A. La pasteurisation et le conditionnement dans les laiteries allemandes. *Vie Lait*. 7(125):1-2. Feb.10,1951. 44.8 V67
- 39984 EHRLICH, C. Wir müssen qualitätsmilch erzeugen und mit der milchhygiene im kuhstall beginnen. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:200-201. Feb.8,1951. 18 L2346
- 39985 FARMER, E. C. Statistical quality control in ice cream manufacture. *Internatl. Assoc. Ice Cream Mfr. Rpt. Proc.* 46(2):101-115. 1950. 389.9 In83
- 39986 FAUST, H. P. The essentiality of dairy processing equipment. *South. Dairy Prod. J.* 49(3):30,102-105, 116. Mar.1951. 44.8 So83
- 39987 FISHER, H. S. Corn sweeteners. *Internatl. Assoc. Ice Cream Mfr. Rpt. Proc.* 46(2):86-91. 1950. 389.9 In83  
Includes discussion.
- 39988 GOODMAN, F. L. Refrigeration in dairy product factories. 3. *Refrig. J.* 4:946,948,950-951. Nov.1950. 295.8 R255
- 39989 GOULD, I. A. Compounds formed by heat treatment of milk. *Milk Plant Mon.* 40(2):44-45,48-49, 68. Ref. Feb.1951. 44.8 C864
- 39990 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Smallholder cheese. *Gt. Brit. Min. Agr. & Fisheries. Adv. L.* 133,3 p. Nov.1950. 10 G79La  
Manufacture.
- 39991 GUERALT, A. M. La distribution hygiénique du lait. *Indus. Lait. (n.s.)* 52:5-6. Jan.1951. 44.8 In2
- 39992 HUMPHRISS, E. Ice cream technology. 7-8. *Ice Cream Indus.* 26:661-663;27:161-162. Dec.1950, Feb. 1951. 389.8 Ic24
- 39993 ICE CREAM from buttermilk; long research by U. S. Dept. of Agriculture develops flavorful product made from sweet cream buttermilk. *Ice Cream Trade J.* 46(12):26-28,62. Dec.1950. 389.8 Ic2
- 39994 INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS. Report of the proceedings of the 46th annual convention, Atlantic City, New Jersey, October 18th, 19th, 20th, 1950. v. 2. Production and Laboratory Council. n.p., 1950. 138 p. 389.9 In83
- 39995 JENSEN, C. The creamery water supply. *N. Dak. Agr. Expt. Sta. Bimon. B.* 13:123-125. Jan./Feb. 1951. 100 N813B  
Effect of water-borne bacteria on dairy products.
- 39996 KING, N. Trockenrahm (rahmpulver), butterpulver und butter-konzentrat. *Molk.-Ztg.* 5:57-58. Jan.18,1951. 44.8 M735
- 39997 KNIGHT, S. G., MOHR, W. H., and FRAZIER, W. C. White mutants of *Penicillium roqueforti*. *J. Dairy Sci.* 33:929-933. Dec.1950. 44.8 J822
- 39998 KOROLEV, M. How to obtain standard bricks of steppe cheese. (In Russian.) *Moloch. Promysh.* 11(9):32. Sept.1950. 44.8 M734
- 39999 KÜHNEL, A. Die bedeutung der farbenfotografie für die darstellung milchwissenschaftlicher untersuchungen. *Milchwissenschaft* 6:25-28. Jan.1951. 44.8 M5933  
English summary.
- 40000 LAWHORN, R. K. Controlled automatic fluid proportioning in ice cream mix-making. *Ice Cream Trade J.* 47(2):36,98. Feb.1951. 389.8 Ic2
- 40001 LLOYD, R. L. The use of corn syrup solids in the manufacture of ice cream. *Beacon* 1951:118-120. 44.8 B35
- 40002 LOMUNOV, A. Physical ripeness of cream in butter making. (In Russian.) *Moloch. Promysh.* 11(9):15-18. Sept.1950. 44.8 M734
- 40003 LÖSCHE, A., and MÜCKE, D. Die behandlung von milch in hochfrequenten elektrischen feldern. *Naturwissenschaften* 37:538. Dec.1,1950. 474 N213
- 40004 LUCKIE, J. N. Ice cream mix design and calculation. *Ice Cream Trade J.* 47:48-49,68. Jan.1951. 389.8 Ic2
- 40005 MCAULIFFE, H. D. Coliform control. *Internatl. Assoc. Ice Cream Mfr. Rpt. Proc.* 46(2):62-67. 1950. 389.9 In83  
Includes discussion.
- 40006 MCCLEAN, C. M. Estimating the cost of ice cream production. *Beacon* 1951:66,68-69. 44.8 B35
- 40007 MACRIS, C. G., and TZIVANOPOULOS, C. G. Contribution au controle bactériologique du lait. *Lait* 31(301/302):7-15. Jan./Feb.1951. 44.8 L143
- 40008 MACWALTER, R. J. Detergents and their use in dairy plant. *Soc. Dairy Technol. J.* 4:110-114. Jan. 1951. 44.8 So12  
Includes discussion.
- 40009 MAR'INSKIY, A. To improve the quality of cheese. (In Russian.) *Moloch. Promysh.* 11(9):10-12. Sept.1950. 44.8 M734
- 40010 MEISER, J. A., JR. Calculating the solids content of ice cream mixes. *Ice Cream Field* 57:65-67. Jan.1951. 389.8 Ic23
- 40011 MÖSLE, J. Zur gäranlage und reifung der käseermilch im zusammenhang mit der käsealtauglichkeit von silagemilch. *Milchwissenschaft* 6:21-24. Jan. 1951. 44.8 M5933  
English summary.
- 40012 NIUKKANEN, V. Automatic equipment for milk pasteurization. (In Russian.) *Moloch. Promysh.* 11(9):40-42. Sept.1950. 44.8 M734
- 40013 OLSON, H. C. Methods for preparing cream for frozen storage. *Internatl. Assoc. Ice Cream Mfr. Rpt. Proc.* 46(2):52-56. 1950. 389.9 In83  
Includes discussion.  
Also in *South. Dairy Prod. J.* 49(2):122,124-126. Feb.1951. 44.8 So83
- 40014 PERRY, J. R. More cleaning aids; some additions to a growing family. *Amer. Milk. Rev.* 13(3):28,30, 32,61-62. Mar.1951. 44.8 Am38
- 40015 PINEDA, M. A. Quesito de postre elaborado en la chacra. *Chacra* 21(240):20-21. Nov.1950. 9 C34
- 40016 POLONOVSKI, M., ROBERT, L., and ROBERT, M. Une nouvelle méthode d'extraction et de purification de la xanthine déshydrase du lait. *Soc. de Chim. Biol. B.* 32:868-871. Ref. 1950. 383 Sol
- 40017 POLYKOVSKIY, A. Construction defects in the spraying assembly for drying milk and their elimination. (In Russian.) *Moloch. Promysh.* 11(9):27-29. Sept.1950. 44.8 M734
- 40018 POSTHUMUS, G. The use of cleaning agents in the dairy factory. II. (In Dutch.) *Alg. Nederland. Zuivelbond. Off. Orgaan* 42:610-611. Dec.20,1950. 44.9 AL3
- 40019 PROCTER, F. The production of sterilised milk. *Soc. Dairy Technol. J.* 4:107-109. Jan.1951. 44.8 So12  
Includes discussion.
- 40020 PROVAN, A. L. Laboratory control. *Soc. Dairy Technol. J.* 4:115-121. Jan.1951. 44.8 So12  
Includes discussion.
- 40021 RÍO, A. DEL. La fabricación continua de manteca. *Ganadería [Madrid]* 8:612-615. Oct.1950. 49 G15
- 40022 ROSA, M. DE. Southern type cheeses: how the delicious "Scamorza" is created. (In Italian.) *Gior. di Agr.* 61:45. Feb.11,1951. 16 It1G
- 40023 RUDOLPH, W. Concentrated milk. *Amer. Milk Rev.* 13(3):6-8,10. Mar.1951. 44.8 Am38
- 40024 RUNOV, E. V., KONOPLEVA, E. P., and SOKOL'SKAIA, A. P. Bacteriophage in cheese making. II. Resistance of lactic acid streptococci to bacteriophage from cheese. (In Russian.) *Mikrobiologiya* 19:355-363. July/Aug.1950. 44.8 J M582
- 40025 RÜTERS, P. Direkte verdampfung oder solekühlung? *Molk.-Ztg.* 5:115-116. Feb.1,1951. 44.8 M735
- 40026 THE SAETERS; in summer the Norwegian women migrate to the mountain pasture farms for the cheese and butter making. *Farm Q.* 6:42-45,142. Spring 1951. 6 F22995
- 40027 SCHMALFUSS, H. Hinweis für die farbwertbestimmung von carotin-lösungen. *Fette u. Seifen* 52:739-741. Dec.1950. 384 C422  
Margarine and butter coloring.
- 40028 SEARLE, G. H. Ice cream and the sanitary officer. *Dairyman* 68:71-72. Feb.1951. 44.8 D1426  
Sanitary processes in Great Britain.
- 40029 SHEPHERD, E. Hygiene in practice. *Ice Cream Indus.* 26:677-678. Dec.1950. 389.8 Ic24
- 40030 SHEPHERD, E. Milk—its increasing use in ice cream manufacture requires most careful attention being given to heat treatment. *Ice Cream Indus.* 27:165-166. Feb.1951. 389.8 Ic24
- 40031 SHIFFER MILLER, W. E. A time and motion analysis of the cleaning of dairy equipment. *Internatl. Assoc. Ice Cream Mfr. Rpt. Proc.* 46(2):43-52. 1950. 389.9 In83  
Includes discussion.
- 40032 SOTIER, A. L. The control of microorganism populations. 4. *Milk Dealer* 40(5):47,56. Feb.1951. 44.8 M595  
Detergents in the dairy industry.
- 40033 STANTON, B. E. Co-ops pull together to can goat milk. *News Farmer Coop.* 17(12):11. Mar.1951. 166.2 N47  
California Goat Dairywomen's Association, Inc.



40034 STEINER S., J. La higiene de la leche. 1. Agr. Trop. 6(2):25-31. Feb.15,1950. 26 Ag8

40035 THOME, K. E., and SWARTLING, P. Über aktuelle melereiforschungs-aufgaben in Schweden. Milchwissenschaft 6:3-6. Jan.1951. 44.8 M5933

40036 TRACY, P. H., TOBIAS, J., and HERREID, E. O. Application of the vacreator and the mallorizer for high-temperature short-time heating of ice cream mixes. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(2):21-30. 1950. 389.9 In83

40037 TRENDTEL. Gesundheitsfördernde milch-mischgetränke. Mol. -Ztg. 5:33-34. Jan.11,1951. 44.8 M735  
Preparation.

40038 TRENDTEL. Das katadyn-verfahren als hilfe für die milchhygiene. Mol. -Ztg. 5:60-61. Ref. Jan.18, 1951. 44.8 M735

40039 TRENDTEL. Reinigungseffekte in der milch-wirtschaft. Mol. -Ztg. 5:85-86. Jan.25,1951. 44.8 M735

40040 TRET'IAKOVA, L. Practices of expert, E. Fomina [in butter manufacture at El'fakhin factory in Vologda Region]. (In Russian.) Moloch. Promysh. 11(9): 6-7. Sept.1950. 44.8 M734

40041 TROUT, G. M., and WEINSTEIN, B. Half-and-half homogenized milk. Milk Plant Mon. 40(2):39-42. Feb.1951. 44.8 C864

40042 USELMAN, W. E. Practical cleaning deter-gents. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(2): 56-61. 1950. 389.9 In83  
Includes discussion.

Also in Ice Cream Trade J. 46(12):52,94-96. Dec.1950. 389.8 Ic2

40043 VAN DER MERWE, P. J. Kuruman farmers make dry milk. (In Afrikaans.) Landbouweekblad 32(1644):8-10. Jan.17,1951. 24 L232

40044 VEALE, M. Avoiding trouble with milk. Shropshire & Surrounding Co. Agr. News 15:61,63. Dec.1950/Jan.1951. 10 Sh8  
Cleanliness in milk production.

40045 VERSUCHS- UND FORSCHUNGSANSTALT FÜR MILCHWIRTSCHAFT, KIEL. Wissenschaftlicher jahresbericht 1949/50. Milchwissenschaft 6:28-29,61-62. (To be cont.) Jan.-Feb.1951. 44.8 M5933

40046 WHITE, J. E., JR. A southern plant official talks about cleanliness. Beacon 1951:16,17,94. 44.8 B35

40047 WILEY, W. J., and HILLS, G. L. Review of new buttermaking methods. Austral. Dairy Rev. 19:15-17. (Cont.) Jan.1,1951. 44.8 Au73

40048 WILHARM, G., and CIBLIS, E. Die bedeutung der hemmungserscheinungen zwischen Strept. lactis und Strept. cremoris für die neuzüchtung von säureweckern. Milchwissenschaft 6:51-53. (To be cont.) Feb.1951. 44.8 M5933

40049 WILSENS, A., and VLEESCHAUWER, A. DE. Investigations about Escherichia coli in water supplies of dairy plants. (In Dutch.) Gent. Landhogesch. Meded. 15: 415-423. June 1950. 105.1 G344  
English summary.

40050 ZUCKERMAN, S. Food colors for ice cream and sherbets. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(2):79-83. 1950. 389.9 In83  
Includes discussion.

#### Statistics

40051 DAIRYMEN'S CO-OPERATIVE SALES ASSO-CIATION. Complete summary of sales and other statis-tical data No. 17, year - 1950. n.p.,1950. 16 p. 280.2449 D14

40052 QUEENSLAND DEPT. OF AGRICULTURE. DIV. OF DAIRYING. Queensland butter production, 1949-1950. Queensland Agr. J. 71:351-363. Dec.1950. 23 Q33  
Production, payments and gradings of butter.

40053 QUEENSLAND DEPT. OF AGRICULTURE. DIV. OF DAIRYING. Queensland cheese production,1949-1950. Queensland Agr. J. 71:364-368. Dec.1950. 23 Q33  
Manufacture and gradings of cheese.

40054 SPAGNOLI, A. Milk production and consump-tion. (In Italian.) Allevatore 7(2):3. Jan.14,1951. 49 AL55  
Statistics.

40055 SWEDEN. LANTBRUKSHOGSKOLAN. INSTITU-TIONEN FOR MARKNADSLARA. The weighing in of milk in Sweden 1934-49. (In Swedish.) Lantmannen 34:949-951. Dec.9,1950. 11 L234

40056 U. S. BUR. OF AGRICULTURAL ECONOMICS. Milk production on farms and statistics of dairy plant products, 1950. Washington,1951. 50 p. 1.941 H2M59

40057 U. S. BUR. OF AGRICULTURAL ECONOMICS. Statistics relative to the receipt and disposal of milk and cream at dairy plants in the Hudson-Mohawk Milk Market-ing area, 1949. Albany, N. Y.,1950. 8 p. 1.941 H8M59  
New York State Department of Agriculture and Markets cooperating.

40058 U. S. PRODUCTION AND MARKETING ADMIN. Butter—total receipts at Atlanta, Ga. for year 1950, by rail and truck. Atlanta,1951. 10 p. 1.956 A2B982

40059 U. S. PRODUCTION AND MARKETING ADMIN. Cheese—total receipts at Atlanta, Ga. for year 1950. Atlanta,1951. 2 p. 1.956 A2C41

Also report of receipts at Chicago. 1.9422 D8T642; at Los Angeles. 1.9422 D8T642L; at San Francisco. 1.9422 D8T642S.

40060 U. S. PRODUCTION AND MARKETING ADMIN. Total receipts of butter at Chicago, Illinois for year 1950. Chicago,1951? 2 p. 1.9422 D8T64

Also report of receipts at Los Angeles. 1.9422 D8T64L; at San Francisco. 1.9422 D8T64S

#### FEED AND FORAGE CROPS

40061 ACETO, N. C., and others. Production of leaf meals from vegetable wastes in rotary alfalfa driers. U. S. Bur. Agr. & Indus. Chem. AIC-286,8 p. Dec.1950. 1.932 A2Ag82

P. W. Edwards, R. K. Eskew, C. S. Redfield, R. F. Hur-ley, and A. Hoersch, Jr., joint authors.

40062 ACKER, J. Keep your advertising up to date. Feedstuffs 23(5):29-30. Feb.3,1951. 286.81 F322

40063 ACKERSON, C. W. Values and limitations of feed analyses. (Excerpts.) Grain & Feed J. Consolidated 106(4):21. Feb.28,1951. 298.8 G762

40064 ANDRIES, A. L'appréciation dans la pratique de la valeur agricole des herbages, par l'examen de leur composition botanique (Institué sous les auspices de l'I.R.S.I.A. [Institut pour l'Encouragement de la Recherche Scientifique dans l'Industrie et dans l'Agriculture]). Rev. de l'Agr. 3:1302-1316. Dec.1950. 13 R322  
English summary.

40065 BAKER, M. Gather experiment data and testi-monials: you can use scientific information in promoting sales to feed customers. Feedstuffs 23(5):50,52-53. Feb.3,1951. 286.81 F322

40066 BELL, C. S. A good service program for com-mercial feed consumers. (Excerpts.) Grain & Feed J. Consolidated 106:19-21. Jan.10,1951. 298.8 G762

40067 BERG, P. O. Efficient layout and operation of formula feed plants. Feedstuffs 23(6):20.22,24.59-60. Feb.10,1951. 286.81 F322

Adapted from an address.

40068 BERKHOUT, H. W., and BERKHOUT, J. W. A rapid method for the determination of the crude cellulose content of mixed feeds and compound elements. (In Dutch.) Chem. Weekbl. 47:141-142. Mar.10,1951. 385 C42

40069 BURNS, L. V. Increasing the effectiveness of quality control in feeds. Feedstuffs 23(5):12,16.68,72. Feb.3,1951. 286.81 F322

40070 BUSHNELL, H. H. What's the hay situation? West. Dairy J. 7(4):13,51. Feb.1951. 44.8 W524

40071 CARTER, E. L. Poultry industry continues its modernization. San Diego Poultry J. 27(546):8,16. Feb. 1951. 47.8 Sa52  
Handling and storage of feed.

40072 CHRISTOPHER, W. The real price of a bag of feed. Feedstuffs 23(7):16,52. Feb.17,1951. 286.81 F322  
Relation to quality.

40073 COOPER, J. R. Our job in the feed industry. Amer. Feed & Grain Dealer 35:16,35-36. Feb.1951. 298.8 C83  
Feed manufacture.

40074 CUNNINGHAM, L. C. Commercial feeds in New York. Grain & Feed J. Consolidated 106(3):39-40. Feb.14,1951. 298.8 G762

40075 FERGUSON, C. M. The feed dealer's oppor-tunity in the community. Feedstuffs 23(10):42,44.46. Mar.10,1951. 286.81 F322

40076 FORNS, J. J. El problema de los piensos en Europa. Siembra [Madrid] 6(12):14-18. Dec.1950. 15 S11

40077 FRANKLIN, N. L. Standards and controls. Flour & Feed 51(9):18. Feb.1951. 298.8 F66  
Feed.



- 40078 GIRALDO H., C. Bensuprin (beneficiadora de sub-productos industriales). Agr. Trop. 6(2):45-50. Feb. 15, 1950. 26 Ag8  
Manufacturer of feed concentrates and other products in Colombia.
- 40079 GLENNON, W. E. Let's take a little look ahead! (Extr.) Grain & Feed J. Consolidated 106(2):21-22. Jan. 24, 1951. 298.8 G762
- 40080 GRIFFIN, E. D. The feed salesman and feed control officials. (Extr.) Grain & Feed J. Consolidated 106(2):25-26. Jan. 24, 1951. 298.8 G762
- 40081 HALLSWORTH, E. G. The crude fibre determination and its alternatives. Agr. Prog. 25:39-49. Ref. 1950. 10 Ag86  
Analysis of feeding-stuffs.
- 40082 HANNON, R. C. Ideas which others are using in winter feed advertising. Grain & Feed J. Consolidated 106(2):23. Jan. 24, 1951. 298.8 G762
- 40083 HEDGES, T. R. Outlook for 1951. West. Dairy J. 7(4):13, 48-49. Feb. 1951. 44.8 W524  
Hay.
- 40084 HOLDER, R. C. Fishery products in feeds of today and tomorrow. Feedstuffs 23(5):44-45. Feb. 3, 1951. 286.81 F322
- 40085 HOLFELDER, A. Die verwertung des rübenblattes. Bauern Ztg. 3:517-518. Nov. 3, 1950. 18 B324  
Storage in silos.
- 40086 JANOWSKI, B. Practical methods of the determination of the salubrious state of the meadow hay. (In Polish.) Med. Weter. 6:478-482. Aug. 1950. 41.8 M463
- 40087 KINGET, R. L'économie de la prairie dans la production agricole belge. Rev. de l'Agr. 3:1294-1301. Dec. 1950. 13 R322  
English summary.  
Feed production statistics.
- 40088 KLIMOV, G. M. Feed production on Voroshilov Collective Farm [Chilikskii District in Alma-Ata Region]. (In Russian.) Sovetskii. Zhivotnovod. 12(9):8-10. Sept. 1950. 49 So71  
Policy.
- 40089 KNOLL, J. Schicksalsfrage futterbau! Forderungenziele der futtergrundlage im lande Baden und deren wirtschaftliche bedeutung. Bauern Ztg. 3:516-517, 532, 549-550, 568, 583, 599. Nov. 3-Dec. 8, 1950. 18 B324
- 40090 KUZNETSOV, M. Technical reequipment of the combined feed industry. (In Russian.) Miasnaia Indus. SSSR. 21(4):18-21. July/Aug. 1950. 50.8 M58
- 40091 MACOLA, P. Considerations on the price of compound feeds and the economics of their use. (In Italian.) Agenzia Romana Note e Inform. Agr. 3:8-9. Jan. 13, 1951. 281.8 Ag3
- 40092 MARKLEY, M. C. Products control in the feed industry. Grain & Feed Rev. 40(6):18, 56. Feb. 1951. 280.28 C78  
Also in Grain & Feed J. Consolidated 106(3):29-30. Feb. 14, 1951. 298.8 G762
- 40093 MASSACHUSETTS FEED CONTROL SERV. Inspection of commercial feedstuffs. Mass. Agr. Expt. Sta. Control Ser. B. 144, 27 p. May 1950. 100 M38H
- 40094 MOORE, R. D. Feed store merchandising; baby chicks are big business builders. West. Feed & Seed 6(2):26, 40. Feb. 1951. 389.78 W52  
Free chicks as advertising.
- 40095 MOSKEY, H. E. Mineral feed mixtures under the FD&C Act. Drug & Allied Indus. 37(2):16-17. Feb. 1951. 396.8 St2
- 40096 MOVSIANTS, A. P. Calculation, storage and utilization of coarse feeds on collective farms. (In Russian.) Veterinariia 27(10):29-33. Oct. 1950. 41.8 V6426
- 40097 NEW MEXICO. FEED AND FERTILIZER CONTROL OFF. Twenty-first annual report, year ending December 31, 1950, commercial fertilizers. Santa Fe, 1951. 13 p. 57.9 N46
- 40098 PAUL, V. Von der zusammenstellung der kraftfuttermitteln. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:244. Feb. 15, 1951. 18 L2346
- 40099 RAINERI, C. How English technicians and farmers are increasing forage production. (In Italian.) Agenzia Romana Note e Inform. Agr. 15:8-9. Feb. 28, 1951. 281.8 Ag3
- 40100 ROBERTS, A. Pointers on profitable grinding and mixing operations. Feedstuffs 23(10):12, 16. Mar. 10, 1951. 286.81 F322
- 40101 ROTHERMEL, W. A. Protein supplements. Flour & Feed 51(10):9. Mar. 1951. 298.8 F66
- 40102 SIMORRA, J. Reserva de forrajes para las secas. Rev. Ganad. [Habana] 11(2):23-25, 55. Feb. 1951. 49 R321
- 40103 STALEY, T. W. What will happen in the feed business? (Excerpts.) Grain & Feed J. Consolidated 106(5):35. Mar. 14, 1951. 298.8 G762
- 40104 STALL, C. W. Feed mixing no longer a barn floor job. Hoosier Farmer 36(3):6-7, 14-15. Mar. 1951. 280.82 H76
- 40105 THOMPSON, C. R., and BICKOFF, E. M. A proposed modification of the A.O.A.C. method for carotene in alfalfa. Assoc. Off. Agr. Chem. J. 34:219-224. Feb. 15, 1951. 381 As7
- 40106 U. S. PRODUCTION AND MARKETING ADMIN. Feedstuff production for designated periods in 1,000 tons. Memphis, 1950. 1 p. 1.956 G76F323
- 40107 WAGNER, C. P. Reducing power costs in feed grinding. (Excerpts.) Grain & Feed J. Consolidated 106(4):26. Feb. 28, 1951. 298.8 G762
- 40108 WARD, A. H. The basic principles of compounding; the constituents, character and purpose of balanced rations. Milling 116:56, 58-61. Jan. 20, 1951. 298.8 M622  
Feed.
- 40109 WHITE, J. M. Feed and fertilizer control office checks 1,000 samples a year to protect NM buyers. N. Mex. Stockman 16(2):50-51. Feb. 1951. 49 N462
- 40110 WILLIAMS, H. H. Studies of the amino acid composition of feedstuffs. (Sum.) Feedstuffs 23(6):17-18. Feb. 10, 1951. 286.81 F322
- 40111 WOODS, G. Three FFA's form co-op for feed. News Farmer Coop. 17(12):10. Mar. 1951. 166.2 N47
- 40112 ZMIRI, H. On the supply of feed for sheep. (In Hebrew.) Hassadeh 31:42-43. Oct. 1950. 26 H27

## FIBERS AND TEXTILES

- 40113 ABEELE, A. M. VAN DEN. Un nouveau schéma d'épreuves répétées et son application à l'analyse statistique des variations de structure des fils textiles composés de fibres. Inst. Textile de France. B. 22:61-89. Dec. 1950. 304.8 T3145  
English summary.
- 40114 ACKERMAN, F. E. The West as a wool textile center. Natl. Wool Grower 41(2):22. Feb. 1951. 45.8 N21N
- 40115 ALEXANDER, P., CARTER, D., and EARLAND, C. The reaction of wool with organic chloramines. II. The nature of the reaction. Soc. Dyers & Colour. J. 67:17-22. Ref. Jan. 1951. 306.9 Sol
- 40116 ALEXANDER, P., CARTER, D., and EARLAND, C. The rôle of the disulphide bond in reactions which render wool non-felting. Soc. Dyers & Colour. J. 67:23-27. Ref. Jan. 1951. 306.9 Sol
- 40117 ANDREW, W. High drafting. Textile Wk. 47:290, 292, 294, 296, 370, 372, 374. Feb. 2-9, 1951. 304.8 T3127  
Cotton.
- 40118 ANJOS, J. DOS. The price of cotton and the Florânia cooperative. (In Portuguese.) Cooperativismo [Rio de Janeiro] 5(55):21. Jan. 1951. 280.28 C7856
- 40119 ANSARI, M. A. A. The situation and outlook for cotton production in the U. P., vis-a-vis partition of the country. Indian Cotton Growing Rev. 4:149-153. July 1950. 72.8 In23
- 40120 AUSTRALIA. WOOL BOARD. 14th annual report for year ended 30th June, 1950. Melbourne, 1950. 24 p. 286.3459 Au72
- 40121 AUSTRALIAN WOOL REALIZATION COMMISSION. Australian wool; analysis of Australian wool sold at auction in Australia, 1949-50 season. Melbourne, 1950. 38 p. 45.9 Au77
- 40122 BASU, S. N., and GHOSE, S. N. The detection and estimation of damage in jute fibre. II. Assessment of fungal damage on small quantities of fibre material. Textile Inst. J. 42:T1-T5. Jan. 1951. 73.9 T31
- 40123 BECK, A. Beitrag zur rationellen zellwollverarbeitung auf baumwollkarden. Textil-Praxis 6:19-21. Jan. 1951. 304.8 T3143
- 40124 BELLORA, P. L'industrie cotonnière italienne et ses échanges avec l'étranger. Soc. Belge d'Etudes et d'Expansion. B. Bimes. 49:818-822. Nov./Dec. 1950. 280.8 Sol7
- 40125 BENDIGO, C. W. Here's the Puerto Rico textile story. Textile World 101(3):103-118. Mar. 1951. 304.8 T315



- 40126 BENNETT, C. A. Cleaning cotton at gins. *Cotton Gin & Oil Mill Press* 52(4):22-23. Feb. 17, 1951. 304.8 C822
- 40127 BETTINI, T. M. Researches on the electrical resistance of Angora rabbit wool. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 5:49-53. 1951. 16 An76  
English summary.
- 40128 BIGGAR, J. T. M. The wool industry in Portugal. *World Wool Digest* 2(2):8-12. Feb. 14, 1951. 304.8 W89
- 40129 BLACKLEY, S. R. Wool needs realistic price. *Farmer & Stock-Breeder* 65(3202):49, 51. Mar. 6, 1951. 10 F228
- 40130 BOGATY, H., and others. Effect of construction on the laundering shrinkage of knitted woollens. *Textile Res. J.* 21:102-109. Feb. 1951. 304.8 T293  
L. I. Weiner, A. M. Sookne, and M. Harris, joint authors.
- 40131 BOUSSENOT, G. Le coton, richesse de l'A.E.F. *Marchés Colon.* 7:115, 117-118. Jan. 13, 1951. 286.8 M33
- 40132 BRANDIS, R. Cotton competition—U. S. and India—1929-1948. *South. Econ. J.* 17:270-287. Jan. 1951. 280.8 So84
- 40133 BREMER BAUMWOLLBÖRSE. Jahresbericht über das 78. geschäftsjahr für die 76. ordentliche generalversammlung 1950. n.p., 1950. 7 p. 287 B75
- 40134 BRITISH STANDARDS INSTITUTION. Textile bags, sacks and wrappings; British Standard packaging code. *Brit. Standards Inst. Brit. Standard* 1133 (sect. 9), 49 p. 1950. 290.9 B77
- 40135 BUIATTI, P. G. Improvement of quality and marketing of wool. (In Italian.) *Humus* 6(12):16-19. Dec. 1950. 16 H88  
Italy.
- 40136 BURNTHALL, E. V. CATCC [Canadian Association of Textile Colourists and Chemists] accepted test methods for textiles. *Canad. Textile J.* 68(6):71. Mar. 16, 1951. 304.8 C16
- 40137 BURTE, H. M. The detection of modification in animal fibers. I. *Textile Res. J.* 21:63-66. Feb. 1951. 304.8 T293
- 40138 CASTRO, R. DE. International panorama of cotton. (In Portuguese.) *Rev. dos Mercados* 1(3):5-6. Nov. 1950. 286.8 R328
- 40139 CHEVALLARD, A. Abaca: the plant, the fiber, uses, quality, production, markets. (In Italian.) *Mondo Tessile* 5:578-584, 636-639. Nov.-Dec. 1950. 304.8 M742
- 40140 CLEGG, O. Quality control and the new fibres. 3. *Textile Mercury & Argus* 124:231-232, 252. Feb. 9, 1951. 304.8 T318
- 40141 COBB, L. L. Procedimientos prácticos en la hilatura de fibras sintéticas. *Textiles Panamer.* 11(3):56-57, 66-67. (Cont.) Mar. 1951. 304.8 T3142
- 40142 CONGDON, J. Mysteries of binder twine breakage uncovered by Unico's research staff. *Minn. Farm Bur. News* 30(7):6. Mar. 1951. 275.293 M662  
Tests at the United Co-Operative Laboratory, Ithaca, N. Y.
- 40143 DENNIS, A. E. QMC conducts research and development in textile field. *Textile Forum* 8:5-6. Feb. 1951. 304.8 T3191
- 40144 DEQUAE, A. La satisfaction des besoins de l'indigène congolais; un exemple: le textile. *Soc. Belge d'Études et d'Expansion. B. Bimes.* 49:753-755. Nov./Dec. 1950. 280.8 So17
- 40145 DICKINSON, J. C., and PALMER, R. C. A rapid method of determining ether extracts. *Textile Inst. J.* 42:T6-T14. Ref. Jan. 1951. 73.9 T31  
Solvent extraction of wool to determine oil content.
- 40146 DUNNE, H. Jute industry in Pakistan and India. *New Commonwealth* 21:268-271. Jan. 1951. 280.8 C88
- 40147 EDERRA ANDÍA, F. Algo sobre política económica lanar. *Ganadería [Madrid]* 8:624-625. Oct. 1950. 49 G15
- 40148 ELTING, J. P. Cavitomic cotton. *Science* 113:297-300. Mar. 16, 1951. 470 Sci2
- 40149 ENGELHARD, J. Voici la coopérative des producteurs de laine de Champagne et de l'Est. *Rustica* 24:76. Jan. 28, 1951. 14 R92
- 40150 FAIRBANKS, E. H. Electrical components of McCann pot spinning frame. *Amer. Assoc. Textile Technol. Papers* 6:43-45. Mar. 1951. 304.9 Am33
- 40151 FETROW, W. W. Cotton and oilseed co-op service spread. *Grain Prod. News* 3(8):21-22. Feb. 1951. 286.81 G764
- 40152 FYNN, P. J., and others. Correlation studies of accelerated and natural weathering tests of protectively finished cotton duck. *Textile Res. J.* 21:116-123. Feb. 1951. 304.8 T293  
C. N. Daly, C. M. Fleming, and J. D. Dean, joint authors
- 40153 GATTI, G. The wools of Italy are the best from the Mediterranean Basin? (In Italian.) *Laniera* 64:725, 727, 729, 731, 733. Oct. 1950. 45.8 B63
- 40154 GAUTIER, J. Une étape de la mise au point du décorticage de quelques plantes à fibres douces. *Coton et Fibres Trop.* 5:163-164. Dec. 1950. 73.8 C82
- 40155 GENIN, G. La stabilisation des fibres de caséine par déamination. *Lait* 31(301/302):92-100. Ref. Jan./Feb. 1951. 44.8 L143
- 40156 GERDES, F. L. Modern ginning methods. *Cotton Gin & Oil Mill Press* 52(4):9, 12-13, 48-49. Feb. 17, 1951. 304.8 C822
- 40157 GOLDBERG, J. B. The current program to improve the performance of fabrics from synthetic fibers. *Washington, U. S. Ext. Serv.*, 1951. 7 p. 1.913 A2L64  
Notes taken by Alice Linn at the Twenty-first Annual Meeting of the Textile Research Institute, Nov. 16-18, 1950.
- 40158 GOLDBERG, J. B. Textile research achievements in 1950. *Amer. Assoc. Textile Technol. Papers* 6:26-32. Mar. 1951. 304.9 Am33  
Also in *Canad. Textile J.* 68(5):63. (Cont.) Mar. 2, 1951. 304.8 C16
- 40159 GT. BRIT. COMMONWEALTH ECONOMIC COMMITTEE. INTELLIGENCE BR. Industrial fibres, a summary. *London, 1951.* 149 p. 280.39 G794C  
Statistics.
- 40160 GT. BRIT. EXCHEQUER AND AUDITING DEPT. Cotton (Centralised Buying) Act, 1947, account 1949-50. *London, 1950.* 3 p. 286.3729 G79
- 40161 GULATI, A. N. Role of some structural features of cotton fibre in nep-formation. *Indian Cotton Growing Rev.* 4:133-142. July 1950. 72.8 In23
- 40162 HAARER, A. E. Possibilities of the roselle fibres; substitute for Bimil jute. *Cordage World & Indus. Textiles* 376:17. Feb. 1951. 73.8 C813
- 40163 HANAOKA, M. Silk prospects bright. *Oriental Econ.* 18:57-58. Jan. 20, 1951. 280.8 Or4  
Japan.
- 40164 HARDACRE, W. Progress in rayon staple. *Textile Wk.* 47:454, 456. (To be cont.) Feb. 16, 1951. 304.8 T3127
- 40165 HOFFMAN, R. M., and BESTE, L. F. Some relations of fiber properties to fabric hand. *Textile Res. J.* 21:66-77. Ref. Feb. 1951. 304.8 T293
- 40166 HOFFMANN, F. E. Undesirable fibres in Merino wool detrimental to South Africa's reputation in the wool trade. *Merino Breeders' J.* 13:51, 28. Jan. 1951. 45.8 So8
- 40167 HORNE, H. J. Danish textile industry has expanded materially with Marshall Aid funds. *Foreign Trade* 9:278-279. Feb. 17, 1951. 286.8 C162
- 40168 HSIEH, C. Post-war developments in the Japanese textile industry. *Internatl. Labour Rev.* 62:364-388. Nov. 1950. 283.8 In8
- 40169 HUDSON, J. The coconut coir industry in Ceylon. *World Crops* 3:107-111. Mar. 1951. 281.8 W892
- 40170 IMSHENETSKII, A. A., and SOLNTSEVA, L. I. Thermophilic pectin bacteria. (In Russian.) *Mikrobiologiya* 19:418-425. Sept./Oct. 1950. 448.3 M582  
Experiments with flax samples.
- 40171 INTERNATIONAL FEDERATION OF MASTER COTTON SPINNERS' AND MANUFACTURERS' ASSOCIATIONS. International cotton statistics; estimated world cotton spindles at 31st July 1950; consumption of cotton for half-year ending 31st July 1950; with previous figures for comparison. *Heaton Mersey, Stockport, 1951.* 8 p. 72.9 In82C
- 40172 INTERNATIONAL SILK CONGRESS, 2, NEW YORK, 1950. Business and entertainments. *Internatl. Silk Assoc. B.* 6(sup.), 42 p. Nov. 1950. 304.9 In82B
- 40173 IRVING, N. R. A survey of synthetic fibres; advantages of nylon. *Textile Wk.* 47:380, 382. Feb. 9, 1951. 304.8 T3127
- 40174 JOHNSTON, R. Problems of wool marketing. In *Agricultural Co-operative Association. The farmer in business*, p. 58-61. *London, 1950.* 280.2 Ag83F
- 40175 JONES, J. M. The sheep industry and the O.P.A. will the E.S.A. make the same blunder? *Natl. Wool Grower* 41(2):5-6. Feb. 1951. 45.8 N21N  
Wool price control.



- 40176 KARRH, J. H. Vicara—eine neue synthetische faser. *Textil-Praxis* 6:11-12. Jan.1951. 304.8 T3143
- 40177 KING, G. S. Cordage at the 1851 Exhibition; interesting comparison with Festival of Britain. *Cordage World & Indus. Textiles* 376:14-15. Feb.1951. 73.8 C813
- 40178 KLERK, J. C. DE. A tale full of adventure and romance. (In Afrikaans.) *Wolboer* 41:7-8. Dec. 1950. 45.8 W83
- Wool production in South Africa.
- 40179 LUTZ, R. Cotton consumption outlook in the United States. *Cotton* [Washington] 4(4):6-7. Nov.1950. 286.3729 In8C
- 40180 MCCANN, J. J. Pot spinning. *Amer. Assoc. Textile Technol. Papers* 6:36-42. Mar.1951. 304.9 Am33 Equipment.
- 40181 MCLURE, J. H. Market outlets for extra long staple cotton in the United States. *U. S. D. A. Agr. Inform. B.* 33,50 p. Ref. Dec.1950. 1 Ag84Ab
- 40182 MAFERA, F. Competition between cotton and rayon only temporarily suspended. (In Italian.) *Mondo Tessile* 5:648-650. Dec.1950. 304.8 M742
- 40183 MAFERA, F. Statistical interpretation of wool propaganda. (In Italian.) *Mondo Tessile* 5:586-587. Nov. 1950. 304.8 M742
- 40184 MAHAL, G. S., JOHNSTON, A., and BURNS, R. H. Bikaner wool, a leading carpet wool, and its improvement. *Textile Res. J.* 21:94-101. Ref. Feb.1951. 304.8 T293
- 40185 MAHAL, G. S., JOHNSTON, A., and BURNS, R. H. Types and dimensions of fiber scales from the wool types of domestic sheep and wild life. *Textile Res. J.* 21:83-93. Ref. Feb.1951. 304.8 T293
- 40186 MARINELLI, R. Chemical composition of silk and wool. (In Italian.) *Chimica* 6:9-11. Jan.1951. 385 C445
- 40187 MARINER, P. F. Extra-corticle membranes and layers of the wool fibre. *Nature* [London] 167:231-232. Feb.10,1951. 472 N21
- 40188 MEERSSEMAN, L. C. L'industrie textile belge après la deuxième guerre mondiale. *Soc. Belge d'Etudes et d'Expansion. B. Bimes.* 49:742-744. Nov./Dec.1950. 280.8 So17
- 40189 MILLER, R. C. What is your wool worth? *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 66(3):19,143. Mar. 1951. 6 P945K
- 40190 MONCRIEFF, R. W. Research into rotting of textile fibres. 2. Skinner's Silk & Rayon Rec. 25:274,276. Ref. Feb.1951. 304.8 S132
- 40191 MONCRIEFF, R. W. Synthetic wool—is it possible? *Textile Rec.* 68(815):93-95. Feb.1951. 304.8 T311
- 40192 MOORE, W. Biological detection of vitamins in wool. (Abs.) *Va. J. Sci. (n.s.)* 1:356. Sept.1950. 470 V81
- Use of *Attagenus* sp.
- 40193 MURAYAMA, T. Prospects for Japanese cotton consumption. *Cotton* [Washington] 4(4):11-13. Nov. 1950. 286.3729 In8C
- 40194 O'DONNELL, C. Selling California cotton, 1944-1948. *South. Econ. J.* 17:288-301. Jan.1951. 280.8 So84
- 40195 OUTRAM, E. H. C. New deal for mohair industry; packing regulations and classing standards will increase quality and efficiency. *Farmer's Wk. [Bloemfontein]* 80:53. Jan.31,1951. 24 F225
- In South Africa.
- 40196 OVERBEKE, M. VAN, LEFEBVRE, L., and RAUX, L. Mesure de l'altération des laines par la perte à la soude. *Inst. Textile de France. B.* 22:53-60. Dec.1950. 304.8 T3145
- English summary.
- 40197 PAKISTAN. DEPT. OF COMMERCIAL INTELLIGENCE AND STATISTICS. The golden fibre, by Aslam Hayat. *Pakistan, Dept. Advertising, Films and Publications, 1950.* 65 p. 73.3 P17
- Jute.
- 40198 PALMER, R. C. Report of the 1948 inter-laboratory diameter and length experiment; International Wool Textile Organisation Technical Committee. *Textile Inst. J.* 42:P23-P43. Jan.1951. 73.9 T31
- 40199 PEARSE, A. S. Prospects for Cyprus cotton. *Countryman* [Nicosia] 5(2):9. Feb.1951. 25 C83
- 40200 PEASE, W. Wool. *New Zeal. Studmasters' Annu. Rev.* 2:19-20. Sept.1950. 49.7 N48
- 40201 RANDOLPH, W. L. American cotton situation. *Indian Textile J.* 61:185,163. Dec.1950. 304.8 In2
- 40202 REEVES, R. E., MAZZENO, L. W., JR., and HOFFPAUIR, C. L. Glycosidic methoxyl groups in meth-analyzed cellulose. *Textile Res. J.* 21:78-81. Feb.1951. 304.8 T293
- 40203 REIN, H. Die entwicklung und bedeutung der synthetischen fasern. *Textil-Praxis* 6:7-10. Jan.1951. 304.8 T3143
- 40204 RICHMOND, T. R., and LEWIS, C. F. Evaluation of varietal mixtures of cotton. *Agron. J.* 43:66-70. Feb.1951. 4 Am34P
- 40205 RINOLDI, L. Observations on carbonization. (In Italian.) *Laniera* 64:755,757. Oct.1950. 45.8 B63
- 40206 RISO, R. Textile control and analysis in cotton spinning. (In Italian.) *Ist. Cotton. Ital. Not. dell'Indus. Tessile Cotton.* 4:1058-1060,5:58-60. Dec.15,1950-Jan. 1951. 286.3729 Is7N
- 40207 RIVAIN, J. B. Une nouvelle richesse agricole du Moyen-Congo: l'urena, jute africain. *Marchés Colon.* 7:123-125. Jan.13,1951. 286.8 M33
- 40208 ROBINET, M. Measurement of damage to wool fibres. *Textile Inst. J.* 42:P20-P22. Jan.1951. 73.9 T31
- 40209 ROBSON, R. R. Cotton consumption prospects in the United Kingdom. *Cotton* [Washington] 4(4):7-8. Nov.1950. 286.3729 In8C
- 40210 RODELO, D. O. Classification of cotton under artificial light. (In Portuguese.) *Rev. dos Mercados* 1(3): 35-36. Nov.1950. 286.8 R328
- 40211 ROSSI, C. Single motor control equipment for cotton spinning. (In Italian.) *Mondo Tessile* 5:591-593, 651-652. Nov.-Dec.1950. 304.8 M742
- 40212 SARAIYA, R. G. Cotton consumption prospects in the Indian Union. *Cotton* [Washington] 4(4):8-11. Nov. 1950. 286.3729 In8C
- 40213 SARKAR, P. B. The cellulosan of jute fibre. *Nature* [London] 167:357-358. Mar.3,1951. 472 N21
- 40214 SEN-I KOGYO GAKUKWAL. *Seni kogaku benran* [Handbook of textile engineering]. Tokyo, Shukyosha, 1950. 728 p. 304 Se52
- 40215 SIMS, I. H. What interests angora growers most? *Amer. Small Stock Farmer* 35(6):11-12. Mar. 1951. 48.8 J82
- Market for wool.
- 40216 SNYDER, B. On the wool front. *N. Mex. Agr. Col. Ext. News* 31:7. Jan.1951. 275.29 N463Ex
- 40217 SOL C., J. Dios, unión y libertad. B. Algodon. [San Salvador] 57:14-15. Jan.1951. 286.82 B63
- Cotton cooperatives in El Salvador.
- 40218 SOXMAN, R. C., and GAUS, G. E. Relation of sale sampling to marketing studied by USDA cotton research group. *Cotton Digest* 23(26):8,28-29. Mar.17,1951. 286.82 C822
- 40219 STEINHAUS, P. M. The Nile Valley, land of cotton. *United Nations World* 5(3):64-67. Mar.1951. 280.8 Un384
- 40220 SWEATT, H. B. Animal glue; many millions of pounds used for the sizing of textiles. *Rayon & Synthetic Textiles* 32(3):64,66,84. Mar.1951. 304.8 R21
- 40221 TACHIKAWA, S. Tachikawa's new viscose staple; here's America's first intimate glimpse of Japan's new departure in rayon. *Rayon & Synthetic Textiles* 32(3):31-33,43,68. Mar.1951. 304.8 R21
- 40222 TEXTILE OPERATING EXECUTIVES OF GEORGIA. Report of discussions of questions on carding, spinning, spooling, winding, warping, 1950. Atlanta, 1950. 31 p. 304.9 T317R
- Cotton.
- 40223 TOMANIK, E. B. On the cotton agreement. (In Portuguese.) *Rev. dos Mercados* 1:34. Sept.1950. 286.8 R328
- Marketing in São Paulo.
- 40224 U. S. BUR. OF AGRICULTURAL ECONOMICS. Mohair production and value, 1949 and 1950. Washington, 1951. 1 p. 1.9 Ec71Mo
- 40225 U. S. BUR. OF AGRICULTURAL ECONOMICS. Wool and mohair production, 1950. Portland, Oreg., 1951. 2 p. 1.941 H8F44
- 40226 U. S. BUR. OF AGRICULTURAL ECONOMICS. Wool production and income, 1949-50. Washington, 1951. 2 p. 1.9 Ec713Wp
- 40227 U. S. EXTENSION SERV. Looking ahead with cotton, by E. P. Callahan. Washington, 1950. 7 p. 1.913 A5L87
- 40228 U. S. EXTENSION SERV. Recommendations of committees, Regional Extension Cotton Conferences. Washington? 1950. 15 p. 1.913 C3C82
- 40229 U. S. PRODUCTION AND MARKETING ADMIN. Cotton quality statistics, United States, 1949-50. U. S. D. A. Statis. B. 49,63 p. 1951. 1 Ag84St



40230 U. S. PRODUCTION AND MARKETING ADMIN. Domestic wool: monthly average prices at Boston, 1944-45. Washington, 1950. 1 p. 1.9422 L8D71Bg

40231 U. S. PRODUCTION AND MARKETING ADMIN. Facts about the present cotton situation and the need for increased production in 1951. Washington, 1950. 18 p. 1.956 C82F11

40232 WAKEHAM, H., and others. The technical possibilities for a regenerated silk. Textile Res. J. 21:110-115. Ref. Feb. 1951. 304.8 T293

R. K. Toner, H. R. Jolley, and H. S. Taylor, joint authors.

40233 WALKER, R. G. San Paulo cotton: high prices without subsidies show little profit for Brazilian growers. Cotton Digest 23(22):7. Feb. 17, 1951. 286.82 C822

40234 WALLACE, N. One-third of N. Z. wool returns is "frozen." Adelaide Stock & Sta. J. 46(2355):7, 20. Jan. 10, 1951. 23 Ad3

40235 WEBB, P. W. Properties of foundation fibres. Canad. Textile J. 68(6):47, 49, 51, 53. Mar. 16, 1951. 304.8 C16

Synthetics.

40236 WILLIAMS, S. Nylon has been oversold, but it is still a remarkable fiber, even if through over-enthusiasm it has been put to some improper uses. Idaho Farmer 69:93. Feb. 1, 1951. 6 G282

40237 WILLIAMS, S. Textiles. Idaho Farmer 69:37. Jan. 18, 1951. 6 G282

Chiefly properties.

40238 WINDEL, D. Prospects for world raw cotton production and consumption in 1950-51—a preliminary survey. Empire Cotton Growing Rev. 28:49-55. Jan. 1951. 72.8 Em7

40239 YOUSSEF, A. A. Intrinsic fibre strength in the new Egyptian cottons. Textile Mercury & Argus 124:403-404. Mar. 9, 1951. 304.8 T318

#### FRUITS, VEGETABLES, AND NUTS

40240 ALLWRIGHT, W. Three new year resolutions of the South African citrus industry. Citrus Grower 204:1-2. Jan. 1951. 80 C495

40241 ANGIER, H. Responsibilities of the California fruit industry. Pear Growers League Annu. 1950:17, 19. 286.3939 P31

40242 BLONDEL, L. L'agrumiculture algérienne. Comt. de Liaison de l'Agrumicult. Méditer. B. 1:3-4. Jan. 1950. 86 C732B

40243 CAVIA, C. E. El abastecimiento nacional de semilla de papa. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(16):69-71. Oct. 1950. 9 Ar35

40244 COURS, G. Le manioc à Madagascar. Madagascar. Insp. Gén. des Serv. Agr. B. Agr. 3(24):3-12. June 1950. 25 M26

The industry.

40245 DALMASSO, G. Italian and French producers of table grapes in conference. (In Italian.) Colt. e Glor. Vint. Ital. 97(1):2-4. Jan. 15, 1951. 16 C72

40246 DOGONADZE, R. I. Soviet fruit and grape culture for 33 years. (In Russian.) Sad i Ogorod 1950 (11):7-10. Nov. 1950. 80 Sa13

40247 DORSMAN, C. Survey of the French fruit industry. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13(10, sup.):143-168. Nov. 1950. 86 N384

40248 EATON, E. L. The Cinderella of the fruit industry. Agr. Inst. Rev. 5(6):45-46, 48. Nov. 1950. 7 Ag8

The blueberry industry in Canada.

40249 FERNHOLM, H. Seed of high quality; from the potato exhibition in Astorp. (In Swedish.) Lantmannen 35:129-130. Feb. 17, 1951. 11 L234

40250 THE FLORIDA fruit and vegetable directory, season 1950-1951. Jacksonville, 1950. 222 p. 225 F662

40251 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Citrus and dried fruit. Food & Agr. Organ. United Nations. FAO Commod. Ser. B. 19, 107 p. Dec. 1950. 389.9 F735Cs

World industry.

40252 GALLO, F. Panorama de la campaña 1950-51. Semana Vitiviníca 5(230):32. Nov. 25, 1950. 95.8 Se5

Grapes in Spain.

40253 HABRAN, R. La situation économique du fruit en 1950. Fruit Belge 19(113):1-3. (To be cont.) Jan. 1951. 80 F9493

40254 HAISMA, J. P. The culture of potatoes for export. (In Dutch.) Nieuwe Veldbode 17:303-304. Feb. 1, 1951. 12 V542N

The industry in the Netherlands.

40255 HALLEMA, A. Theft of fruit and vegetables and its suppression and punishment in the past. (In Dutch.) Groenten en Fruit 6:463. Dec. 21, 1950. 80 G89

40256 HENDRIX, C. 500 million bushels of beans. Breeder's Gaz. 116(3):6, 24-25. Mar. 1951. 49 B74

Production goal.

40257 IASTREB, P., and FEDORENKO, I. U. Fruit and grape production at the Cherkassk District Fair. (In Russian.) Sad i Ogorod 1950(11):78-79. Nov. 1950. 80 Sa13

40258 KEUNE, O. 1950—ein jahr der guten ernten! Kartoffelwirtschaft 4(1):1-2. Jan. 5, 1951. 286.83 K14

Germany.

40259 KHAN, A. A. Agriculture and fruit development possibilities in Baluchistan. Pakistan Econ. J. 2(2):121-130. Dec. 1950. 280.8 P174

40260 KILFOIL, W. P. Potato valley, rich soil along the St. John River supports a bustling industry for N. B. Family Herald & Wk. Star 82(6):5, 17. Feb. 8, 1951. 7 F21

40261 LAURENT, R. La prochaine campagne des agrumes a fait l'objet d'études sérieuses. Inform. Marocaine 522:1, 4. Jan. 13, 1951. 281.8 In3

40262 LEPIDI, J. La datte dans le monde. B. Econ. et Social de la Tunisie 47:19-24. Dec. 1950. 280.8 B874

40263 MARESCALCHI, A. The future of fruit culture (In Italian.) Roma Econ. 3:837-840. Dec. 1950. 280.8 R66

40264 MAURER, K. J. Überwindet der deutsche obstbau die traditionelle belastung? Obstbau 69:181-182. Dec. 1, 1950. 80 Ob73

40265 MORALES Y FRAILE, E. Les aspects de la production agrumaire en Espagne. Comt. de Liaison de l'Agrumicult. Méditer. B. 1:2-3. Jan. 1950. 86 C732B

40266 NESTERENKO, G. A. Soviet subtropical fruit crop production on the 33d anniversary of the October Revolution. (In Russian.) Sad i Ogorod 1950(11):35-40. Nov. 1950. 80 Sa13

40267 NEUMAND, J. La viticulture charentaise. Libération Paysanne 8(300):5, 8. Feb. 15, 1951. 14 L61

40268 PEAR GROWERS LEAGUE. Annual, 1950. San Jose, Calif., 1950. 55 p. 286.3939 P31

40269 PEGLION, V. The peach in Italy. (In Italian.) Glor. di Agr. 61:59. Feb. 25, 1951. 16 It1G

40270 PLASSCHE, A. W. V. D. The fruit grower in America is not conservative. Impressions from a trip to America. (In Dutch.) Groenten en Fruit 6:365-366. Nov. 30, 1950. 80 G89

40271 SANCHEZ, J. Mas prosa sobre las patatas. Aliment. Nac. 10(180/181):10-11. Nov. 25/Dec. 10, 1950. 389.8 AL42

Spain.

40272 SANTURIO, J. El problema del frijol negro. Cuba Econ. y Financ. 26(298):19. Jan. 1951. 286.8 C892

40273 SAVAGE, Z. Eleven percent increase in world production of citrus in 1950. Citrus Mag. 13(7):24. Mar. 1951. 80 C498

40274 SEITZER. Generalplan für die südwestdeutsche obstwirtschaft. Obstbau 69:177-178. Dec. 1, 1950. 80 Ob73

40275 SITTERDING, M. H. Indiana melon growing brings high returns. Purdue Agr. 42(5):6. Feb. 1951. 6 P97

40276 SOUSA, J. S. I. DE. A Cuban example we should imitate. (In Portuguese.) Chacaras e Quintais 83:168-169. Feb. 15, 1951. 9.2 C34

Brazilian fruit policy.

40277 STAUNING, A. Danish fruit production. Fruit Varieties & Hort. Digest 5:43-45, 54. Summer 1950. 80 F9464

40278 TESCHE, W. C. Welfare of walnut industry influenced by Government; legislation and control programs require constant attention. Diamond Walnut News 33(2):1-3. Mar. 1951. 94.68 D34

40279 VARNEY, H. R. Interdependence of the fruit industry and agricultural research. Mountaineer Grower 21(185):31, 33. Feb. 1951. 80 M86

40280 VOSKRESENSKIY, V. I. Fruit and vegetable show in the City of Tambov. (In Russian.) Sad i Ogorod 1950(12):64. Dec. 1950. 80 Sa13

40281 WISER, R. B. The deciduous fruit industry looks ahead. Pear Growers League. Annu. 1950:37, 39. 286.3939 P31



Analysis and Composition

- 40282 ANGELI, B., and MAZZA, S. Cellulose of the *jerusalemartichoke*; composition of the plant and nature of its ash. (In Italian.) *Chimica* 6:25-27. Jan.1951. 385 C445
- 40283 BARKER, J., and MAPSON, L. W. The ascorbic acid content of potato tubers. II. The influence of the temperature of storage. *New Phytol.* 49:283-303. Ref. Nov.1950. 450 N42
- 40284 GISTL, R. Mikrobiologische fragen bei der obstverwertung. (Sum.) *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 91:422. Dec.1950. 384 Z39
- 40285 GRIEBEL, C. Durch fruchte des bürzeldorns (*Tribulus terrestris* L.) verunreinigte bohnen. *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 92:24-27. Jan.1951. 384 Z39
- 40286 HILTON, R. J. Factors in relation to tuber quality in potatoes. II. *Sci. Agr.* 31:61-70. Ref. Feb. 1951. 7 Sci2
- 40287 LEINBACH, L. R., SEEGLER, C. G., and WILBUR, J. S. Composition of red raspberries, including pectin characterization. *Food Technol.* 5(2):51-54. Ref. Feb.1951. 389.8 F7398
- 40288 NEBESKY, E. A., ESSELEN, W. B., JR., and FELLERS, C. R. Studies on the peroxidase in pickles and pears. *Food Technol.* 5:110-113. Ref. Mar.1951. 389.8 F7398
- 40289 NOBLE, I. Color and ascorbic acid variations in cabbage cooked by various methods. *Food Res.* 16:71-76. Ref. Jan./Feb.1951. 389.8 F7322
- 40290 NORDLINGER, E. W. Here's 5-minute tester for sweet corn moisture content. *Food Packer* 32(2):63, 67. Feb.1951. 286.83 C165
- 40291 POUX, C. Relation entre le poids des sucres et le poids de matière fraîche dans les raisins de différentes variétés de Vitis vinifera au moment de la maturité. *Acad. d'Agr. de France. Compt. Rend.* 36:605-607. Oct.25/Nov.8,1950. 14 P215Bc
- 40292 WILSON, E. E. Fungus infection damages kernels. *Almond Facts* 16:7. Jan./Feb.1951. 280.28 AL62
- Aspergillus*, *Stemphylium*, and *Fusarium* on almonds.

Consumption and Utilization

- 40293 GAROGLIO, P. J. Como utilizar el orujo de manzana. *Chacara* 21(243):28-29. Feb.1951. 9 C34
- 40294 RUMBERGER, C. L. Frozen fruits and vegetables—their industrial use. *Quick Frozen Foods* 13(8): 118-119,258E. Mar.1951. 389.8 Q4
- 40295 U. S. BUR. OF AGRICULTURAL ECONOMICS. Consumer fruit and juice purchases, July-Sept.1950, by regions and type of retail outlet. Washington,1950. 50 p. 1.941 M3R26
- U. S. Production and Marketing Administration cooperating.
- 40296 VON LOESECKE, H. W. Citrus cannery waste, its use and disposition. U. S. Bur. Agr. & Indus. Chem. AIC-290,21 p. Ref. Nov.1950. 1.932 A2Ag82

Distribution, Marketing, and Transportation

- 40297 AGRICULTURAL CO-OPERATIVE ASSOCIATION. The Dutch auction system of marketing fruit & vegetables. London,1950. 14 p. 280.3 Ag82
- 40298 BOBB, A. C., and VAN DYKE, A. W. Cooperative roadside marketing. *Conn. Veg. News* 1950:4-5. Dec.1950. 80 C763
- 40299 BODE, W. Big Y 40 year record. *Big Y B.* 24(10):1,7-8. Feb.1951. 286.83 B48
- Yakima Fruit Growers Association.
- 40300 BRILL, J. E. Possibilities for sale of mushrooms. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 13:68-76. Feb.1950. 86 N384
- 40301 BRINKLEY, P. C. How Virginia fruit growers can assist the Virginia Department of Agriculture serve Virginia agriculture. *Va. Fruit* 39(2):26-29. Feb.1951. 81 V81B
- Chiefly marketing.
- 40302 BUSCH, E. Supplemental requirements for canned vegetables from the 1950 pack. *Natl. Canners Assoc. Inform. Let.* 1325:75-76. Feb.28,1951. 389.9 N214In
- Procurement for the armed forces.
- 40303 CHAIN Store Age year-round produce manual. Chain Store Age. Grocery Exec. Ed. 27(3):99-134. Mar. 1951. 286.28 C34
- 40304 DALRYMPLE, A. J. B. C. [British Columbia] fruit growers have their worries over markets. *Farm & Ranch Rev.* 47(2):34-35. Feb.1951. 7 F223
- 40305 ELLIOTT, R. Winter vegetables for West Coast markets. *Hawaii. Agr. Expt. Sta. Agr. Econ. Rpt.* 3,110 p. Nov.1950. 275.29 H312Ae
- Includes unload and price data at five major West Coast markets.
- 40306 ESCHMEYER, N. National Apple Week—what it can do for you. *Va. Fruit* 39(2):190-200. Feb.1951. 81 V81B
- 40307 EVANS, H. C. Cost of marketing West Virginia apples. *Mountaineer Grower* 21(185):27-31. Feb.1951. 80 M86
- 40308 GARNER, F. Dutch auctions; fruit and vegetable marketing in Holland. *Co-op. Rev.* 25:38-41. Feb. 1951. 280.28 C7823
- 40309 HEBERT, J. W. Big Y relation to industry. *Big Y B.* 24(10):1,8-15. Feb.1951. 286.83 B48
- Yakima Fruit Growers Association.
- 40310 JACKSON, E. A. The new challenge to the fresh fall and winter pear industry. *Pear Growers League. Annu.* 1950:29,31. 286.3939 P31
- Marketing.
- 40311 KLAUS, E. Wir fordern änderung der wirtschaftspolitik! Die gegenwärtigen aussichten für den absatz von obst und gemüse im jahre 1951. *Bauern Ztg.* 4(5):1-2. Feb.2,1951. 18 B324
- Germany.
- 40312 KLUGE, T. O. Association members are given insight into complexities of merchandising. *Sun-sweet Standard* 34(9):6. Feb.1951. 286.83 Su7
- Apricots and prunes.
- 40313 LAURENT, R. La commercialisation de la campagne des agrumes, s'effectuera normalement malgré des difficultés de toutes sortes. *Inform. Marocaine* 520: 1-2;521:1,4. Dec.30,1950-Jan.6,1951. 281.8 In3
- 40314 MELDEN, R. L. Sales good - deliveries late. *Nowest. Nut Bowl* 2(6):1,6. Dec.1950. 94.68 N81
- 40315 MILLER, C. R. All-Eastern team-work among apple growers. *Mountaineer Grower* 21(185):43-44. Feb. 1951. 80 M86
- Marketing.
- 40316 MILLER, E. A. Retailer executive advises glamorizing dried fruits. *Sunsweet Standard* 34(9):4-5. Feb.1951. 286.83 Su7
- 40317 MOORE, E. B. Activities of the Virginia State Apple Commission in 1950. *Va. Fruit* 39(2):200-209. Feb.1951. 81 V81B
- 40318 NEW YORK AND NEW ENGLAND APPLE INSTITUTE. Apple merchandising plans for fall and early winter. Kingston,N.Y.,1950. 4 p. 281.393 N48
- 40319 OSINGA, L. Marketing possibilities for fruit. (In Dutch.) *Fruittteelt* 41:116. Feb.15,1951. 86 N28
- 40320 PAAS, C. H. Wirtschaftliche fahrzeughaltung. *Kartoffelwirtschaft* 3:508-509. Dec.29,1950. 286.83 K14
- 40321 QUINN, O. B. Prices and marketing margins for shallots in St. James Parish, 1949-50. *La. Rur. Econ.* 13:1,4-5. Feb.1951. 281.8 L93
- 40322 RAINS, A. T. Don't make the housewife hunt. *Pear Growers League. Annu.* 1950:33,35. 286.3939 P31
- Marketing.
- 40323 REYNOLDS, H. L. Marketing vegetable crops. *Farmers Fed. News* 31(7):19,22. Mar.1951. 280.28 F225
- 40324 SANDFORD, B. Hull market; an account of the fruit and vegetable trade in Britain's third greatest seaport. *Fruit, Flower & Veg. Trades' J.* 99(5):21,23,25,27, 29. Feb.3,1951. 80 F946
- 40325 SAURMAN, A. V. Florida Citrus Mutual, organization and objectives. 2. *Citrus Mag.* 13(7):16,18. Mar.1951. 80 C498
- 40326 SCHLIEMANN, W. Pflanzkartoffelabsatz 1950/51. *Kartoffelwirtschaft* 3:504-506. Dec.29,1950. 286.83 K14
- Germany.
- 40327 SEELIG, R. A. Fresh facts; interesting data pertaining to distribution and consumption of fresh fruits and vegetables. *Kans. City Grocer* 38:9,11,21,23. Jan. 1951. 286.28 K13
- 40328 SIMON, G. La commercialisation des fruits dans la Province de Liège. *Inst. Prov. de Coop. Agr. B.* 3:6-15. Dec.1950. 280.29 L62
- 40329 SMITH, S. R. Pear people have problems. *Pear Growers League. Annu.* 1950:5,7,9. 286.3939 P31
- Marketing.
- 40330 WELCH, J. H. United we stand; divided, we say goodbye to citrus growing. *Tex. Farming & Citricult.* 27(8):5,14. Feb.1951. 80 T31
- Marketing.



40331 WHITE, A., and YAFFA, B. Summary of carlot unloads, truck receipts and local receipts in Bridgeport, Hartford, New Haven and Waterbury, for the year 1950. Hartford, Conn., Dept. of Farms and Markets, 1951. 17 p. 280.39 C762  
Fruit, vegetables, poultry, and eggs.

#### Grading, Inspection, Standardization, and Quality

40332 BLUMER, T. E., PARRIN, F. W., and PETERSON, G. T. The color of tomato juice; how it is affected by sterilization temperatures. Canner 112(9):13-15, 26, 28. Mar. 3, 1951. 286.83 C16

Also in Natl. Canners Assoc. Inform. Let. 1325:81-85. Feb. 28, 1951. 389.9 N214In

40333 CHASE, C. E. A progress report on the spray residue battle. West. Fruit Grower 5(2):35-37. Feb. 1951. 95.8 G762

On fruit.

40334 GOULD, W. A. Quality evaluation of fresh, frozen and canned snap beans. Ohio. Agr. Expt. Sta. Res. B. 701, 39 p. Ref. Feb. 1951. 100 Oh3S

40335 GREIG, S., and SMITH, O. Grading potatoes for mealiness and its effect on retail sales. Amer. Potato J. 28:499-520. Feb. 1951. 75.8 P842

40336 HALL, E. G., and LONG, J. K. Citrus wastage investigations at the Gosford Citrus Processing Research Laboratory. Agr. Gaz. N. S. Wales 61:631-635, 662. Dec. 1, 1950. 23 N472

Losses due to green mold and stem-end rot.

40337 HOTTENROTH, B. Einfluss der lagerung von obsthalbfabrikaten auf die qualität der marmeladen. (Sum.) Z. f. Lebensmtl.-Untersuch. u. -Forsch. 91:423-424. Dec. 1950. 384 Z39

40338 LIEBSTER. Obstsortiermaschinen. Obstbauberatungsring. Mitteil. 5(6):1-6. Dec. 1, 1950. 85 Ob72

40339 MCDERMOTT, N. The choice of certified seed potatoes. Brit. Farmer 31:11. Jan. 31, 1951. 281.8 B77

40340 MCGLAMERY, J. B., and HOOD, M. P. Effect of two heat treatments on rancidity development in unshelled pecans. Food Res. 16:80-84. Ref. Jan./Feb. 1951. 389.8 F7322

40341 MARSHALL, R. E., and others. The effect of the length of soak on the quality of canned and frozen Montmorency cherries. Food Technol. 5:116-118. Mar. 1951. 389.8 F7398

W. F. Robertson, C. L. Bedford, and W. H. Case, joint authors.

40342 SCOTT, R. C. Apples damaged after grading. Ohio Farm & Home Res. [Ohio Sta.] 35:76. Nov./Dec. 1950. 100 Oh3S

40343 SEITZER. Das ist unser ziel. Obstbau 69:179. Dec. 1, 1950. 80 Ob73

Supplying quality fruit throughout the year.

40344 SIEBENEICK. Die anerkennungsflächen der deutschen kartoffelsorten in den jahren 1946 bis 1950. Kartoffelwirtschaft 4(1):4-5. Jan. 5, 1951. 286.83 K14  
Germany.

40345 SLAMP, K. R. What blue labels mean to me. Guide Post 28(3):10, 12. Mar. 1951. 75.8 G94  
Potatoes.

40346 SPANGLER, R. L. Proposed changes in U. S. grades for apples and new consumer grades. Va. Fruit 39(2):41-49. Feb. 1951. 81 V81B  
Includes discussion.

40347 STODALE, E. Quality control in fruits. Va. Fruit 39(2):51-53. Feb. 1951. 81 V81B

40348 WHITE, J. M. How standardization service helps New Mexico fruit & truck growers to wider, more profitable markets. N. Mex. Stockman 16(3):50-51. Mar. 1951. 49 N462

#### Packing and Packaging

40349 CARLSEN, E. W., and STOKES, D. R. Pre-packaging apples at point of production. Pre-Pack-Age 4(6):18-23. Feb. 1951. 280.38 P91

40350 DICKMAN, P. B. Prepackaging operations. Fruit & Veg. Rev. 12(12):12-13. Mar. 1951. 80 C1224

40351 FAUCHEUR, D. L'application, en Allemagne, des cires synthétiques à la conservation des fruits. Indust. Agr. et Aliment. 67:487-489. Nov. 1950. 383 As7  
English summary.

40352 GERHARDT, F., and LINDELL, G. New data on cherries; Department of Agriculture studies compare performances of various films in fruit pre-packaging. Mod. Packaging 24(7):116-119, 166, 168. Mar. 1951. 309.8 M72

40353 HAMMOND, A. E. Preview of packaging exhibition. Fruit, Flower & Veg. Trades' J. 99(5):45. Feb. 3, 1951. 80 F946

Fruit and vegetables.

40354 HOWARD, G. The packing house and orchard supply situation. Big Y B. 24(10):15-16. Feb. 1951. 286.83 B48

40355 JUNE, R. I. Packing apples. New Zeal. J. Agr. 81:553, 555, 557. Dec. 15, 1950. 23 N48J

40356 KEENAN, S. E. USA packing practice; operations in typical Californian shed handling late-season Valencias. Citrus News 26:183. Dec. 1950. 80 C494

40357 PAARDEKOOPER, M. Sale of fruit in cellophane bags. (In Dutch.) Fruitteelt 41:117. Feb. 15, 1951. 86 N28

40358 PIPER, A. Full use of standard returnable lettuce and cauliflower crates. Grower [London] 35:120-121. Jan. 20, 1951. 286.83 M34

40359 LE PRÉ-EMBALLAGE des fruits et légumes. Emballages 21(123):19-21. Jan./Feb. 1951. 309.8 Eml

40360 RIVEROS, J. E. Empaque de la uva para ultramar. Chacra 21(243):32-33. Feb. 1951. 9 C34

40361 ROSE, J. W. Packing tomatoes for profit. Mich. Farmer 215:256-257. Mar. 17, 1951. 6 M58

40362 TOSCO, U. Plants and their green portions used as packing or protection in the transportation of fruits and vegetables. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.) 56:246-249. 1949. 450 N92

#### Prices, Price Control, and Rationing

40363 BECKMAN, H. V. Stabilization of canning pear prices. Pear Growers League. Annu. 1950:41, 43. 286.3939 P31

40364 BETHKE, S. Prozentuale oder absolute handelsspanne? Deut. Landwirt. Presse 74:27. (To be cont.) Jan. 20, 1951. 18 D482  
Fruit and vegetables.

40365 BRANDENSTEIN, I. VON. Obsternte - ein handwerk mit "goldenem" boden? Obstbau 69:168-619. Nov. 1, 1950. 80 Ob73  
Fruit prices.

40366 KRUIJK, P. A., and HEESSEN, G. J. Review of grape culture in 1950! (In Dutch.) Groenten en Fruit 6:423, 425. Dec. 21, 1950. 80 G89

Prices in the Netherlands.

40367 NOLD, T. We're letting a big apple market slip through our fingers. West. Fruit Grower 5:27-28. Jan. 1951. 95.8 G762

Supports and the school lunch program.

#### Processing and Storage

40368 ACERETE, A. Frutas y verduras congeladas. Spain. Cons. Super. de Invest. Cient. Estac. Expt. de Aula Del. B. 6, 162 p. Ref. July 1950. 506 Sp132B

40369 ANDROSIK, A. S., and SABUROV, N. Pererabotka plodov i ovoshchei [Processing of fruits and vegetables]. Moskva, Moskovskii Rabochii, 1950. 98 p. 389.3 An23P

40370 AUSTRALIAN DRIED FRUITS ASSOCIATION. A.D.F.A. evidence in basic wage case; digest that is a history. Austral. Dried Fruits News 25(12):5-14. Nov. 1950. 286.83 Au72  
The industry.

40371 BOYD, H. Vegetables on ice. Nurseryman & Seedsman 112:34. Jan. 4, 1951. 80 N933

40372 BRAVERMAN, J. B. S. Fruit cooker; juices, purees, pastes produced by modernized proven process. Calif. Agr. [Calif. Sta.] 5(1):3, 12. Jan. 1951. 100 C12Cag  
Henze cooker.

40373 BROCKETT, J. E. Farmers open "sweet" storage. N. J. Farm & Gard. 22(2):44. Feb. 1951. 6 G162  
Sweetpotato storage by the Landisville Fruit Growers' Association.

40374 BURGOYNE, J. H., and THOMAS, A. Spontaneous heating and ignition in stored palm kernels. II-III. J. Sci. Food & Agr. 2:8-30. Jan. 1951. 382 So12

40375 BUSH, R. Correct temperature is needed for fruit ripening. Grower [London] 35:386-387. Feb. 24, 1951. 286.83 M34

40376 CAIN, R. F. Quick-freezing tests with southern peas. Tex. Agr. Expt. Sta. Prog. Rpt. 1328, 3 p. Feb. 20, 1951. 100 T31P

40377 CARLSEN, E. W. Apple processing research. West. Fruit Grower 5:25-26. Jan. 1951. 95.8 G762



- 40378 CECIL, S. R., and WOODROOF, J. G. BHA [butylated hydroxyanisole] ups shelf life of salted nuts. *Food Indus* 23(2):81-84, 223-224. Feb. 1951. 389.8 F737
- 40379 CILLIE, G. G. Pectin: its possible manufacture in South Africa. *Food Indus. So. Africa* 3(9):27-29. Ref. Jan. 1951. 389.8 F7372
- 40380 COETZEE, W. H. R., HUGO, J. F. DU T., and PRATT, F. F. Different blends of grenadilla syrup. *Food Indus. So. Africa* 3(9):30-31. Jan. 1951. 389.8 F7372
- 40381 COHEE, R. F., and NELSON, J. Phytates will stop cherry discoloration. *Food Indus.* 23(3):91-93. Mar. 1951. 389.8 F737
- 40382 CROCE, F. M. Conservación de zapallos por el método de Appert. *Vinos, Viñas y Frutas* 45:305-306. Dec. 1950. 9 Ag89
- 40383 CROCE, F. M. Preparación de porotos al natural por el método Appert. *Chacra* 21(243):20-21. Feb. 1951. 9 C34
- 40384 DALMASSO, G. Preservation on the plant or in the storehouse? (In Italian.) *Glor. di Agr.* 61:19-20. Jan. 21, 1951. 16 It1G
- 40385 EIGHT leading frozen items—production and potential; present, past performance of each product including distribution, marketing acceptance in relation to canned & fresh counterparts. *Quick Frozen Foods* 13(8):73-89. Mar. 1951. 389.8 Q4
- Strawberries and several vegetables.
- 40386 FIDLER, J. C., and NASH-WORTHAM, J. R. H. Ripening of tomatoes. II. Further experiments on the effects of ethylene. *J. Hort. Sci.* 26:43-46. Dec. 1950. 80 J825
- 40387 GOIDANICH, G., and MEZZETTI, A. "Pitting" of apples. (In Italian.) *Italia Agr.* 88:46-48. Jan. 1951. 16 It1
- In storage.
- 40388 GOMEZ, A. M. Mexican pineapple canning shows big gain. *West. Canner & Packer* 43(2):29. Feb. 1951. 286.83 W522
- 40389 GORLIA, E. La distillerie de fruits, complément indispensable de la culture fruitière moderne. *Fruit Belge* 19(113):11-12. Jan. 1951. 80 F9493
- 40390 GRAFF, Y. Sur une nouvelle méthode de concentration des jus de fruits. *Soc. Sci. de Bretagne. B. (Sci. Math. Phys. et Nat.)* 24:109-112. 1949, pub. 1950. 505 R292
- 40391 GREENSPAN, F. P., and MACKELLAR, D. G. The application of peracetic acid germicidal washed to mold control of tomatoes. *Food Technol.* 5:95-97. Mar. 1951. 389.8 F7398
- 40392 GRIFFITHS, D. G., and POTTER, N. A. Effects of ethylene upon respiratory activity of apples in gas storage, with special reference to stage of maturity. *J. Hort. Sci.* 26:1-7. Dec. 1950. 80 J825
- 40393 HALLBERG, O. A. Applesauce comes of age at Sebastopol [California]. *West. Canner & Packer* 43(2):25-27. Feb. 1951. 286.83 W522
- 40394 HAMMOND, A. E. The ABC of fruit refrigeration. *Fruit, Flower & Veg. Trades' J.* 98(25):23. Dec. 16, 1950. 80 F946
- 40395 HAMMOND, A. E. Preventing fruit deterioration—the function of ozonisers. *Fruit, Flower & Veg. Trades' J.* 98(24):23. Dec. 9, 1950. 80 F946
- 40396 HERINGA, J. N. Control of mice with methyl bromide in fruit storage buildings. (In Dutch.) *Fruittelt* 41:53. Jan. 25, 1951. 86 N28
- Netherlands.
- 40397 HIELE, T. VAN. Refrigeration of vegetables and fruit. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13(10, sup.):277-288. Nov. 1950. 86 N384
- 40398 HIELE, T. VAN, and ZWEEDE, A. K. Storage and processing of fruit in Switzerland. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13(10, sup.):51-68. Nov. 1950. 86 N384
- 40399 HIELE, T. VAN. Storage of potatoes, fruit and vegetables in Denmark and Sweden. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13(10, sup.):272-276. Nov. 1950. 86 N384
- 40400 HRUSCHKA, H. W., and KAUFMAN, J. Storage tests with prepackaged cranberries. *U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt.* 235, 3 p. Feb. 1951. 1.9 P772Ht
- 40401 KAUFMAN, V. F., NIMMO, C. C., and WALKER, L. H. Frozen apple juice concentrate. *Quick Frozen Foods* 13(8):116-117, 276, 278. Mar. 1951. 389.8 Q4
- 40402 KEW, T. J., and VELDHIJS, M. K. An index of pasteurization of citrus juices. *Citrus Indus.* 32(3):12-13, 16-17. Mar. 1951. 80 C492
- 40403 KING, G. E., and WOODIN, M. D. Commercial canning of fruits and vegetables in Louisiana, 1941-49. *La. Rur. Econ.* 13:3, 8. Feb. 1951. 281.8 L93
- The industry.
- 40404 KITCHIN-KERR, G. E. Cool storing oranges; need for overhaul of harvesting and packing practices before planning storage. *Citrus News* 26:185, 190. Dec. 1950. 80 C494
- 40405 KOERVER, C. The stabilization of fruit in storage. *Internatl. Assoc. Ice Cream Mfr. Rpt. Proc.* 46(2):92-101. 1950. 389.9 In83
- Includes discussion.
- 40406 LA BONTÉ, R. H. Aseptic split pea soup. *Food Packer* 32(2):28-29, 71. Feb. 1951. 286.83 C165
- 40407 LANDFALD, R. Use of emulsions on fruit to be stored. (In Norwegian.) *Norsk Hagetid.* 67:18. Jan. 1, 1951. 80 N81
- 40408 LAWLESS, J. S. Quickest to quality; proper materials blended right. *Food Indus.* 23(3):100-101. Mar. 1951. 389.8 F737
- Frozen citrus purees.
- 40409 LEE, F. A., FENTON, F., and STEVENS, H. B. The control of browning in frozen sliced apples. *Food Technol.* 5:114-116. Ref. Mar. 1951. 389.8 F7398
- 40410 MURPHY, J. M. Safe storage of vegetables. *New Zeal. Dept. Health. Health* 2(6):5. Dec. 1950. 449.8 H342
- 40411 OLSEN, B. F. Canning in glass jars in school and institutional kitchens; fruits and other acid foods. *U. S. D. A. Agr. Handb.* 11, 28 p. Jan. 1951. 1 Ag84A4
- 40412 OLSON, R. L., and HARRINGTON, W. O. Dehydrated mashed potatoes—a review. *U. S. Bur. Agr. & Indus. Chem. AIC-297*, 23 p. Ref. Jan. 1951. 1.932 A2Ag82
- 40413 PAARDEKOOPER, M. Fruit storage in England. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13(10, sup.):380-389. Nov. 1950. 86 N384
- 40414 PICHON, A. Facts about Mirabelle plum juice. *Bottler & Packer* 25(3):74-75. Mar. 1951. 390.8 B65
- Processing.
- 40415 PLAKIDA, E. K., LAGUTINSKAIA, N. S., and NEMIROVSKAIA, E. I. Experiment in preserving grapes in their natural state with [horseradish] phytoncides. (In Russian.) *Vinodel. i Vinograd. SSSR.* 10(10):46-48. Oct. 1950. 95.8 V77
- 40416 RACZYŃSKA, K. The preparation of asparagine from pea seedlings. (In Polish.) *Przem. Chem.* 6:673-680. Ref. Nov. 1950. 385 P952
- English summary.
- 40417 REDIT, W. H., RADSPINNER, W. A., and WIANT, J. S. Ripening pears in transit in fan cars. *U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt.* 234, 7 p. Mar. 1951. 1.9 P772Ht
- 40418 REIG FELIU, A. El alto vacío y la congelación rápida, aplicados a la conservación del jugo de naranja. *Agricultura [Madrid]* 20(225):10-13. Jan. 1951. 15 Ag84
- 40419 REIG FELIU, A. La extracción del jugo de los frutos agrios. *Soc. Rur. Argentina. An.* 84(11):39-42. Nov. 1950. 9 S01
- 40420 ROSENT, I. Los zumos concentrados de naranja. *Cult. Mod.* 33:458. Dec. 1950. 15 C89
- 40421 SCOTT, W. A. Processing to enlarge market for potatoes. *West. Canner & Packer* 43(2):63-64. Feb. 1951. 286.83 W522
- 40422 SHEWELL-COOPER, W. E. Storing fruit and growing trees. *New Health* 26(2):16. Feb. 1951. 449.8 N45
- 40423 SMOCK, R. M. Controlling the atmosphere in the storage of fruits. *Mountaineer Grower* 21(185):19-22. Feb. 1951. 80 M86
- 40424 STEVENS, R. F. Vegetables for processing in 1950. *Del. U. Agr. Ext. Folder* 19, 4 p. Mar. 1950. 275.29 D37W
- A list of the processors handling Delaware vegetables.
- 40425 TAYLOR, P. R. Processed fruit and vegetable needs. *Nation's Agr.* 26(3):17, 19. Mar. 1951. 280.82 B89
- 40426 THEVENOT, R. Refrigerated storage in France of seed potatoes. *Mod. Refrig.* 54(634):6-8. Jan. 1951. 295.8 M72
- 40427 TESCHER, R. G., and DARROCH, J. G. A study of the factors affecting measurement of headspace in canned corn. *Food Technol.* 5(2):43-45. Feb. 1951. 389.8 F7398



40428 TOBIN, R. B. How a Maine packer freezes french fries for 14 brands. Quick Frozen Foods 13(8): 104-105, 176. Mar. 1951. 389.8 Q4

40429 TOWNSEND, C. T. Problems in the processing of fruits. Natl. Canners Assoc. Inform. Let. 1325:92-94. Feb. 28, 1951. 389.9 N214In  
Similar title in Food Packer 32(3):25. Mar. 1951. 286.83 C165

40430 TRIP, J. The keeping of potatoes in cold storage. I-II. (In Dutch.) Friesch Landtbl. 48:21,40. Jan. 12-19, 1951. 12 F91

40431 TURK, A., SMOCK, R. M., and TAYLOR, T. I. Mass and infrared spectra of apple vapors. Food Technol. 5(2):58-63. Ref. Feb. 1951. 389.8 F7398  
Atmospheric contaminants present during storage.

40432 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Frozen concentrated orange juice, by L. G. MacDowell, M. K. Veldhuis, T. B. Swann and T. McGinty. Washington, 1951. 4 p. 1.914 R2R11

40433 URSCHEL, J. R. Techniques affect waste in slicing, dicing your product. Food Packer 32(2):30-31. Feb. 1951. 286.83 C165  
Vegetables.

40434 VALLE, T. Influence of quick freezing on the stability of ascorbic acid in lemon juice. (In Italian.) Ann. della Sper. Agr. (n.s.):5:221-226. 1951. 18 An76  
English summary.

40435 WALLS, E. P., and STARK, F. C. Finds new pea variety extends packing season. Food Packer 32(2): 64-65, 67-68. Feb. 1951. 286.83 C165

40436 WEGENER, J. B., BAER, B. H., and RODGERS, P. D. Improving quality of frozen strawberries with added colloids. Food Technol. 5(2):76-78. Feb. 1951. 389.8 F7398

40437 WHITE, L. Dried vine fruit; development of the industry in Australia. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 4(1):18-22. Jan. 1951. 281.9 Au73  
Raisins and currants.

40438 WRIGHT, C. E. Orange concentrators face tough cost-price problems. Food Indus. 23(2):109-110. Feb. 1951. 389.8 F737

40439 YOUNG, F. E., JONES, F. T., and LEWIS, H. J. Prevention of the growth of sucrose hydrates in sucrose sirups. Food Res. 16:20-29. Ref. Jan./Feb. 1951. 389.8 F7322  
In frozen fruit products.

40440 ZHUKOVSKIY, D. I. On potato storage. (In Russian.) Sad i Ogorod 1950(12):60-61. Dec. 1950. 80 Sa13

40441 ZIEMBA, J. V. Makes big strides in apple processing. Food Indus. 23(2):111-116. Feb. 1951. 389.8 F737

#### Statistics

40442 HAHNE, A. Kartoffelanbaufläche nicht eingeschränkt! Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:313. Mar. 1, 1951. 18 L2346

40443 HUBER, H. Vom weinjahr und herbsttertrag 1950 im versuchsrebbeg an der Sternenhalle Stäfa. Schweiz. Z. f. Obst- u. Weinbau 60:48-51. Feb. 10, 1951. 80 Sch9

40444 MICKLEM, T. Trends in planting. (Sum.) Food Indus. So. Africa 3(8):29-30. Dec. 1950. 389.8 F7372  
Fruit acreages.

40445 U. S. BUR. OF AGRICULTURAL ECONOMICS. Idaho onion stocks, January 1, 1951. Boise, 1951. 2 p. 1.941 H8On4

40446 U. S. BUR. OF AGRICULTURAL ECONOMICS. Merchantable potato stocks on February 1, 1951. Fargo, 1951. 2 p. 1.941 H8P84

#### GRAIN AND GRAIN PRODUCTS

40447 ALLISON, A. G. A public relations program for the grain and feed industry. (Excerpts.) Grain & Feed J. Consolidated 106(3):22. Feb. 14, 1951. 298.8 G762

40448 AMOS, A. J. Flour enzymes. Milling 116:140-142, 144-145. Feb. 10, 1951. 298.8 M622

40449 AMOS, A. J. Wheat quality and its evaluation. Milling 116:190-194, 196. Feb. 24, 1951. 298.8 M622

40450 ARGENTINA. DIRECCION DE ECONOMIA. Síntesis del régimen de comercialización de granos y sus derivados. Argentina. Dir. Nac. de Granos y Elevadores. B. Inform. 11:176-179. Sept. 30, 1950. 286.81 Ar3

40451 ARGENTINA. DIRECCION DE LABORATORIOS. Calidad industrial de los conjuntos representativos de los standards de trigo, cosechas 1945/46 a 1949/50. Argentina. Dir. Nac. de Granos y Elevadores. B. Inform. 11:188-198. Sept. 30, 1950. 286.81 Ar3

40452 ARGENTINA. DIRECCION DE LABORATORIOS. Comparación de molienda experimental e industrial. Argentina. Dir. Nac. de Granos y Elevadores. B. Inform. 11:171-175. Sept. 30, 1950. 286.81 Ar3

40453 ARGENTINA. DIRECCION DE LABORATORIOS. Tipificación de la cosecha de avena, cebada y centeno 1949/50. Argentina. Dir. Nac. de Granos y Elevadores. B. Inform. 11:199-210. Sept. 30, 1950. 286.81 Ar3

40454 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. A summary of the wheat situation, Australia, December, 1950, v. 8, No. 1, by R. Wilson. Canberra, 1950. 20 p. 271 Au72Ms

40455 BAUMGARTNER, W. Wie verbessert man das mahlergebnis? Müllerei 4:67-68. Feb. 3, 1951. 298.8 M91

40456 BISERTE, G., and SCRIBAN, R. Les protides de l'orge. Soc. de Chim. Biol. B. 32:959-968. Ref. 1950. 383 So1

40457 BOSTROM, C. E. Government policy toward the grain industry. Grain & Feed Rev. 40(6):10, 56-57. Feb. 1951. 280.28 C78

40458 BOUQUERY, R. Réflexions sur l'utilisation des pailles après moissonnage-battage. Défense Agr. de la Beauce et du Perche 48:26-29. Jan. 27, 1951. 14 D36

40459 BRAINE, H. E. Operation of F. A. Q. wheat system in W. A. Farmers' Wk. [Perth] 3(176):17-18; (177): 17. Dec. 7-14, 1951. 23 F227

With reference to the percentage used for export and for local bakers' flour.

40460 BROWN, F. Texas studies grain storage. Tex. Livestock J. 10:7, 44, 56. Jan. 15, 1951. 49 T29

40461 BURE, J. La mesure des dimensions des particules de farine. Indus. Agr. et Aliment. 67:587-595. Ref. Dec. 1950. 383 As7  
English summary.

40462 BUTLER, R. D. Liquor industry takes large amounts of some products. Agr. Situation 35(3):10. Mar. 1951. 1 Ec7Ag

Grain and grapes.

40463 CAMPO, S. DEL. Al fin bajan los precios del trigo excedente. Aliment. Nac. 10(182):11. Dec. 25, 1950. 389.8 AL42

Spain.

40464 CAMPO, S. DEL. En las bolsas del trigo se opera con modestas cantidades en relación con los excedentes que se imaginan. Aliment. Nac. 10(180/181):5. 34. Nov. 25/Dec. 10, 1950. 389.8 AL42

Spain.

40465 CANADA. WHEAT BOARD. Report, crop year 1949-1950. Manitoba, 1951. 72 p. 280.3599 C163

40466 CEPERO, P. La cifra de maltosa; interpretación e influencia de la molienda. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:152-156. 1950. 59.9 P41

Includes discussion.

40467 COLEMAN, F. B. Queensland certified hybrid maize. 3. Summary of rules. Queensland Agr. J. 71:311-315. Dec. 1950. 23 Q33

40468 COUPEROT. Variation de la composition des cendres du blé avec la teneur en cendres. Acad. d'Agr. de France. Compt. Rend. 36:641-642. Nov. 15/22, 1950. 14 P215Bc

40469 CUNHA, F. S. DA. Cooperation in the rice producing economy. (In Portuguese.) Cooperativismo [Rio de Janeiro] 5(55):15-16. Jan. 1951. 280.28 C7856

Brazil.

40470 GUARD, S. R. 4 billion bushels of corn. Breeder's Gaz. 116(3):6, 24. Mar. 1951. 49 B74  
Production goal.

40471 HAERTLEIN, H., and LEMOS, O. R. El pronóstico anticipado del comportamiento molinero de nuevas variedades de trigo en base de la molienda de ensayo en pequeña escala. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:137-145. 1950. 59.9 P41

Includes discussion.

40472 HALL, T. H. Swifter grain handling bring cop changes. Grain Prod. News 3(8):24-25. Feb. 1951. 286.81 G764

40473 HAMBROCK, E. Möglichkeiten der mehllagerung. Müllerei 4:71-72. Feb. 3, 1951. 298.8 M91



- 40474 HARRIS, R. H. Problems of grain drying. N. Dak. Agr. Expt. Sta. Bimon. B. 13:129-130. Jan./Feb. 1951. 100 N813B  
In Canada and North Dakota.
- 40475 HARRIS, R. H., and SIBBITT, L. D. Protein content of North Dakota wheat in 1950. N. Dak. Agr. Expt. Sta. Bimon. B. 13:109-112. Jan./Feb. 1951. 100 N813B
- 40476 HARTARD EBERT, M. Estudios estadísticos: Industria molinera. Industria 67:753-754. Dec. 1950. 297.9 S01  
Chile.
- 40477 HAUGSET, A. Price grading of Norwegian grain according to the water content. (In Norwegian.) Landbruksstidende 56:867-868. Nov. 1, 1950. 11 L236
- 40478 HEISS, R. Einige beobachtungen bei der herstellung von hafererzeugnissen. (Sum.) Z. f. Lebensmtl.-Untersuch. u. -Forsch. 91:424. Dec. 1950. 384 Z39
- 40479 HESS, E. Vermälzung der gersten der ernte 1950. Versanst. f. das Gärungsgewerbe. Mitt. 1950:154. Nov./Dec. 1950. 390.08 V67
- 40480 HESSEL, F. H. Storage of distillers' dried grains. G. L. F. Week. Serv. Sched. 15(32):2. Feb. 12, 1951. 280.28 G113W
- 40481 HEYNS, K., and FRANCK, B. Das verhalten von maisstärke bei der einwirkung von elektrolythaltigem wasser. Stärke 2:293-296. Dec. 1950. 309 St22
- 40482 HOPF, L. Der dunstrandlauf in den mahlungen. Müllerei 4:36-37. Jan. 20, 1951. 298.8 M91
- 40483 HOPF, L. Veränderung der aschewerte innerhalb des diagramms. Müllerei 4:17-18. Jan. 13, 1951. 298.8 M91
- 40484 HOPF, L. Zickzackwege bei riffelwerten. Müllerei 4:45-46. Jan. 27, 1951. 298.8 M91  
Milling.
- 40485 JANECKE, H. Studien über die haferphosphatase. 2. Stärke 2:297-302. Ref. Dec. 1950. 309 St22  
English summary.
- 40486 JOHANNING, A. Ein jahr häckselwirtschaft. Deut. Landwirt. Presse 74:17. Jan. 20, 1951. 18 D482  
Handling on the farm.
- 40487 KAUFMANN, F. Ceniza que se encuentra en la harina elaborada de las distintas variedades. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:146-151. 1950. 59.9 P41
- 40488 KELLER, M. Noch einmal jute- oder papiersack? Müllerei 4:19-20. Jan. 13, 1951. 298.8 M91  
Flour.
- 40489 KERSTEN, C. J. Grain for India: India can pay without disrupting its economy. Vital Speeches 17:337-339. Mar. 15, 1951. 280.8 V83
- 40490 KIENTSCH, A. Getreidebau und getreideverbrauch in der Schweiz. Schweiz. Bauer 105(11):3. Jan. 26, 1951. 17 Sch95
- 40491 KLEBER, W., and LEHMANN, E. Gersten der ernte 1950. 2. Brauwelt 1951:22-23. Jan. 11, 1951. 390.8 B732  
Analysis.
- 40492 KLEIN, E. Orientación en el mejoramiento de la calidad industrial de los trigos. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:133-136. 1950. 59.9 P41
- 40493 LEA, P., and CASSIDY, J. Stabilization of oat products, an outstanding achievement. Milling 116:86. Jan. 27, 1951. 298.8 M622  
Milling.
- 40494 MAES, E., and others. Gesamtübersicht über den augenblicklichen stand einer untersuchung über die einwirkung der ultraviolettstrahlen auf das mehl. Getreide, Mehl u. Brot 4:253-255. Dec. 1950. 298.8 G33  
M. Bauwen, A. R. Deschreider, and S. van den Driessche joint authors.
- 40495 MAHO, J. A. Le problème de la conservation des grains récoltés par la moissonneuse-batteuse. Agr. Prat. 115:37-38. Jan. 1951. 14 J82
- 40496 MEL'NIKOV, N. I., and PAVLOVSKAIA, E. G. Relation of baking qualities of flour to carbohydrates in wheat varieties. (In Russian.) Selekt. 17(10):33-36. Oct. 1950. 61.9 Se5
- 40497 MEYER, K. H., and others. Sur les enzymes amylolytiques. XVI-XVII. Purification et cristallisation de la  $\beta$ -amylase de malt. Helvetica Chim. Acta 34:316-334. Feb. 1, 1951. 385 H36  
E. H. Fischer, A. Piguet, and C. H. Haselbach, joint authors.
- 40498 NATIONAAL COMITE VOOR BROUWGERST. Vijftiende jaarboekje [Fifteenth yearbook] 1951. Rotterdam, 1950. 99 p. 390.9 N21
- 40499 PINTO SALVATIERRA, J. Almacenamiento de granos y su conservación. Campo [Tacuba] 18(705):68-70. Nov. 30, 1950. 8 C157
- 40500 PURR, A. Über die bestimmung des säuregrades in mehlen verschiedener herkunft. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 91:393-405. Dec. 1950. 384Z39
- 40501 RECHENBERG, H. A. VON. Über den vibraklon Getreide, Mehl u. Brot 4:255-257. Dec. 1950. 298.8 G33
- 40502 ROCCA, G. The cleaning of artisan mills. (In Italian.) Selez. di Tec. Molitoria 1(6):26-27. Oct. 1950. 298.8 Se42
- 40503 ROCKSTROH, K. "The General" in Chicago. 4. Amer. Miller & Processor 79(2):26-27, 44, 46. Feb. 1951. 298.8 Am32
- 40504 ROJL, C. Evolución de la calidad de la producción triguera juzgada en base a la fuerza de los trigos. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:108-122. 1950. 59.9 P41  
Includes discussion.
- 40505 RUPP, R. G. To a broader understanding. Farmer [St. Paul]. Gen. Ed. 69(6):9, 64. Mar. 17, 1951. 6 F2211  
Through tours and talks, 4-H Club boys study grain marketing.
- 40506 RUSCONI, R. International cereal year 1950. (In Italian.) Mercato dei Cereali 19:3. Jan. 3, 1951. 286.81 M53
- 40507 SCHOFIELD, T. The collection and treatment of by-products. Milling 116:112-117. Feb. 3, 1951. 298.8 M622
- 40508 SENIN GARCIA, N. W. DE., GIBERTI, H., and DOMINGUEZ, R. El centeno en la Argentina, consideraciones previas. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(16):2-34. Oct. 1950. 9 Ar35  
Statistical.
- 40509 SOARES, R. Rice crisis and compensation operations. (In Portuguese.) Orientação Econ. e Financ. 8(88):25-27. Oct. 1950. 280.8 Or42  
Brazil.
- 40510 STEPHANOPOULOS, O. I. Décortication du sésame par flottation. Indus. Agr. et Aliment. 67:491-492. Nov. 1950. 383 As7  
English summary.
- 40511 SUTTON, G. L. The problem of our 'filler' wheat. Farmers' Wk. [Perth] 3(179):14. Dec. 28, 1950. 23 F227  
Milling and baking quality.
- 40512 TABLEAU synoptique des règles et conditions du marché du blé en France (réglementation actuelle et période libérale) et à l'étranger. Meun. Franç. 53:33-37. Dec. 1950. 298.8 M57
- 40513 TEMPLIN, A. T. Sifting fine mesh grain and feed products. Grain & Feed Rev. 40(6):16. Feb. 1951. 280.28 C78
- 40514 TOMASI, K. Das streupproblem. Pflug 4:9-10. Jan. 1951. 19 P48  
Austria.
- 40515 TSCHORSCH, P. H. Mühlentechnische verbesserungen. Müllerei 4:33-34. Jan. 20, 1951. 298.8 M91
- 40516 ULLRICH, H. Stellungnahme zu den vorschlägen zur kennzeichnung der backmehle. Müllerei 4:6-7. (Concl.) Jan. 6, 1951. 298.8 M91
- 40517 U. S. COMMODITY EXCHANGE AUTHORITY. Corn and grain sorghum summary for the crop year beginning October 1949. Chicago, 1951. 5 p. 1.913 A3C81  
U. S. Extension Service and U. S. Production and Marketing Administration cooperating.
- 40518 VAN DER MERWE, P. J. Where wheat is winnowed with a pitchfork. (In Afrikaans.) Landbouweekblad 32(1643):36-37. Jan. 10, 1951. 24 L232
- 40519 VELDHIJZEN, H. VAN. Brewing barley exhibition 1949 and the quality of the Dutch brewing barley of 1949. (In Dutch.) Natl. Comt. v. Brouwgerst. Jaarb. (1951):15-8-29. 1950. 390.9 N21
- 40520 VELDHIJZEN, H. VAN. The purchase of brewing barley 1950. (In Dutch.) Natl. Comt. v. Brouwgerst. Jaarb. (1951):15-7. 1950. 390.9 N21
- 40521 VISIAGIN, N. I., and LISINA, A. I. Quick heating method for determining grain moisture. (In Russian.) Selekt. 17(10):53-55. Oct. 1950. 61.9 Se5



- 40522 WILLSON, R. W. Oats as a mixed farm crop. So. Austral. Dept. Agr. J. 54:250. Dec.1950. 23 So84
- 40523 WILTEN, W. Yields, statistics, and characters of barley varieties. (In Dutch.) Natl. Comt. v. Brouwergerst. Jaarb. (1951)15:75-85. 1950. 390.9 N21

## HONEY AND BEESWAX

- 40524 BARTER, H. S. The selection and preparation of show honey. Wiltshire Beekeepers' Gaz. 68:9-10. July/Aug.1950. 424.8 W71
- 40525 BRITISH STANDARDS INSTITUTION. Honey grading classes. Brit. Standards Inst. Brit. Standard 1656,11 p. 1950. 290.9 B77
- 40526 BRYCE, D. L., and BRYCE, D. H. Honey showing and judging. Bee Craft 33:9. Jan.1951. 424.8 B3925
- 40527 FRASER, H. M. Advertising honey. Bee-keepers' Rec. 63:161-162. Aug.1950. 424.8 B398
- 40528 GREEN, G. W. Honey marketing. Bee Craft 33:10-11. Jan.1951. 424.8 B3925
- 40529 GREENAWAY, J. Atomic honey. Wiltshire Beekeepers' Gaz. 69:7. Sept./Oct.1950. 424.8 W71
- Honey chemistry.
- 40530 HARRISON, A. G. The packing and presentation of stored honey. Wiltshire Beekeepers' Gaz. 70:2-4. Nov./Dec.1950. 424.8 W71
- 40531 KALLAPUR, S. K. An experiment in the collection of wild honey. Indian Bee J. 12:122-124. Sept./Oct.1950. 424.8 In2
- 40532 LIPPOLD, U. Zur methodik der kohlenhydratbestimmung im honig. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 92:9-13. Jan.1951. 384 Z39
- 40533 SCHRENK, and SCHUSTER. Honigpreise. Niederösterr. Imker 1:299-302. Nov.1950. 424.8 N55
- 40534 SCHRÖDER, K. Musste die honigernte 1950 versagen? Niedersächs. Bienenfr. 1950:306-307. Nov. 1950. 424.8 N552
- 40535 U. S. BUR. OF AGRICULTURAL ECONOMICS. Honey and beeswax production. Richmond,1951. 2 p. 1.941 H8H753
- Similar report issued from Oklahoma City. 1.941 H8H756
- Statistics.
- 40536 U. S. BUR. OF AGRICULTURAL ECONOMICS. Honey production, 1950. Fargo,1951. 2 p. 1.941 H8H755
- Statistics.

## LIVESTOCK AND LIVESTOCK PRODUCTS

- 40537 AABERG, H. C. How can we increase livestock production? Nation's Agr. 26(3):14-15. Mar.1951. 280.82 B89
- 40538 AABERG, H. C. Unity in the livestock industry—an accomplished fact. Nation's Agr. 26(3):19-20. Mar. 1951. 280.82 B89
- 40539 AKADEMIJA SEL'SKOKHOZJAISTVENNYKH NAUK IMENI V. I. LENIA. Trudy Malskoj (1949 g.) sessii Vsesofuznoj Akademii Sel'skokhozjaistvennykh Nauk Imeni V. I. Lenina [Proceedings of the May (1949) Session of the All-Union Lenin Academy of Agricultural Sciences]. Moskva,Gos. Izd-vo Selkhoz Lit-ry,1950. 369 p. 49.9 Ak1
- Chiefly on the Three-Year Plan for development of livestock and problems of agricultural science.
- 40540 ALVAREZ, M. Contribución al estudio de la ganadería en el Distrito Torres, Estado Lara. Agro [El Valle] 5(14):45-68. (To be cont.) Sept./Oct.1950. 9.95 Ag83
- Cattle industry.
- 40541 ANTONOVA, V. V. Livestock production of 18-1 Parts'ezd Collective Farm [Stepanov District, Astrakhan Region]. (In Russian.) Sofsiialist. Zhivotnovod. 12(11):21-26. Oct.1950. 49 So71
- Fulfillment of Three-Year Plan.
- 40542 BABURIN, V. S. Allocation of livestock on a consolidated collective farm. (In Russian.) Sofsiialist. Zhivotnovod. 12(11):78-80. Nov.1950. 49 So71
- 40543 BAKER, M. L. Cattle [industry] in Australia. Nebr. Farmer 93(3):58. Feb.3,1951. 6 N27
- 40544 BAMERT, L. C. Production, not control, Bamert asks. West. Live Stock 36(6):29,31,43. Jan.1951 49 W523
- Policy.
- 40545 BEINKE. Die wirtschaftlichen aussichten der schweinemast. Landwirtbl. Weser-Ems 98:71-72. Jan. 25,1951. 18 L2345
- 40546 BENNETT, I. E. Prosperous period ahead for livestock producers and feeders. Nowest. Banker 56(763): 14-15,30. Feb.1951. 284.8 N81
- 40547 BOURNE, H. This critical situation. Mont. Wool Grower 25(3):10,12,15,16. Mar.1951. 45.8 M762
- World situation in relation to meat industry.
- 40549 BULATOV, N. I. Bol'shevik Collective Farm is successfully fulfilling the Three-Year Plan for livestock development. (In Russian.) Sofsiialist. Zhivotnovod. 12(11):55-57. Nov.1950. 49 So71
- 40549 CASE, L. I. Is North Carolina a balanced state? Breeder-Stockman 12(10):25-26. Mar.1951. 49 V81
- Chiefly on livestock industry.
- 40550 CENTRAL LIVESTOCK ASSOCIATION. "Chapter 1950": your manager's report, by N. K. Carnes. Co-op. Shipper 31(2):4-11. Feb.1951. 280.38 C78
- 40551 CHUBUKIN, N. At a high level of production. (In Russian.) Mfasnafa Indus. SSSR. 21(4):8-9. July/Aug. 1950. 50.8 M58
- Omsk Meat Combine.
- 40552 COHEN, R. M. Our meat supply picture. Pa. Meat Dealer 25(2):18. Feb.1951. 286.85 P38
- 40553 DELRIEU, M. La modernisation de l'élevage algérien. Nouvelle Rev. Franc. d'Outre-Mer (n.s.)43:5-6. Jan.1951. 280.8 B873
- With Marshall Plan aid.
- 40554 DRAKIN, D. I. Introduction of practices of the leaders and the achievements of zootechnical science into collective farm production. (In Russian.) Sofsiialist. Zhivotnovod. 12(9):24-28. Sept.1950. 49 So71
- Policy.
- 40555 DREW, E. L. Domestic rawstock outlook. Leather & Shoes 121(10):10,37-38. Mar.10,1951. 303.8 H53
- 40556 DU PLESSIS, C. VAN H. Do the profits in the meat industry make ones mouth water? (In Afrikaans.) Landbouweekblad 32(1645):19. Jan.24,1951. 24 L232
- Union of South Africa.
- 40557 ERCHENKOV, G. Problems of the livestock procurement agencies. (In Russian.) Mfasnafa Indus. SSSR. 21(4):47-52. July/Aug.1950. 50.8 M58
- 40558 FARIA E MAIA, V. M. Livestock in the Ponta Delgada district. (In Portuguese.) Azores. Comis. Regulad. dos Cereais. B. 7(13):29-57. (Cont.) First Semes.1951. 15 Az6
- Includes artificial insemination and diseases.
- 40559 FLETCHER, A. L. Know your ingredients; lard and suet. Brit. Baker 122:53-54. Jan.12,1951. 389.8 B772
- 40560 FRENCH, M. H. East African hides and skins industry. Leather Trades' Rev. 99:77-79,239-241. Jan.3,31,1951. 303.8 L48
- 40561 FULTON, D. The Montana situation. Corn Belt Livestock Feeder 3(5):16. Feb.1951. 280.38 C81
- Beef cattle.
- 40562 GEMMEKE. Die deutsche schafzucht im ausverkauf? Landwirt. Wchnbl. f. Westfalen u. Lippe 108A: 238. Feb.15,1951. 18 L2346
- 40563 GIBBS, R. Sheep on the comeback trail; spurred by spectacular rises in prices of lambs and wool, the nation's flocks are expanding on both range and farm. Will this profitable sheep boom run into trouble? Here's what some veterans in this business say. Country Gent. 121(3):22,147-150. Mar.1951. 6 C833
- 40564 GIBERTI, H. Argentina's cattle stocks; how is the 1947-1949 increase to be interpreted? Rev. River Plate 109(3062):13-16. Jan.5,1951. 286.8 R32
- 40565 GIBERTI, H. Argentine sheep farming. Rev. River Plate 109(3063):15-18. Jan.16,1951. 286.8 R32
- 40566 GRAY, R. C. Pig industry in Scotland, 1950. Scot. Farmer 59(spec. album no.):188-190. Jan.1,1951. 10 Sco8
- 40567 GREGOR, B. Mexican cattle area surpasses expectations. West. Farm Life 53(5):5,24. Mar.1,1951. 6 R153
- 40568 GREVE SILVA, G. El progreso y los problemas de la ganadería. Agrario 15(418):4-5,56. Nov. 1950. 9.3 Ag85
- Chilean cattle industry.
- 40569 GREVE SILVA, G. Las realidades de la ganadería sureña. Agrario 15(418):49-50. Nov.1950. 9.3 Ag85
- Chilean cattle.



- 40570 HOLMES, J. Preparedness—1951. Pa. Meat Dealer 25(2):11-12,14. Feb.1951. 286.85 P38  
The meat industry.
- 40571 INSULANDER, N. Our provisions threatened through lack of sheep. (In Swedish.) Lantmannen 35:87-88. Feb.3,1951. 11 L234
- 40572 KELLOGG, C. E. The domestic rabbit industry. Amer. Rabbit J. 21:21-22. Feb.1951. 40.28 Am3
- 40573 KELLY, J. H. Beef industry development. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 4(1):3-6. Jan.1951. 281.9 Au73  
Australia.
- 40574 KHESTOVA, T. N. Achievements of Signal Revolutsi Collective Farm [Voroshilov District, Saratov Region]. (In Russian.) Sotsialist. Zhivotnovod. 12(9):41-45. Sept.1950. 49 So71  
In livestock production chiefly.
- 40575 KUZ'MICHEV, N. To improve the delivery of livestock to the meat combines. (In Russian.) Miasnafa Indus. SSSR. 21(4):52-55. July/Aug.1950. 50.8 M58
- 40576 LEPILKIN, A. Preparation of specialists for the meat industry. (In Russian.) Miasnafa Indus. SSSR. 21(4):22. July/Aug.1950. 50.8 M58
- 40577 MCCULLOUGH, W. B. Argentina's cattle industry being controlled. Canad. Cattleman 14(2):31. Feb.1951. 49 C16
- 40578 MILLER, E. E. Fall pig crop growing in importance. Agr. Situation 35(3):12. Mar.1951. 1 Ec7A5
- 40579 MOLLIN, F. E. Must maintain meat supplies. Natl. Provisioner 124(8):52. Feb.24,1951. 286.85 N21
- 40580 MORALES ANTEQUERA, C. Hay que intensificar nuestra riqueza ganadera: cómo? Ganadería [Madrid] 8:618-620. Oct.1950. 49 G15  
Spain.
- 40581 NEWELL, P. F. Higher production of meat animals is predicted. Livestock Wk. 5(12):18. Jan.25, 1951. 49 L753
- 40582 PAEZ, C. Producción y exportación de pieles vacunas lanares y cabrias. Inform. Com. Espan. 206: 1380-1385. Oct.1950. 286.8 In3  
Text in English, p. 1408-1410.
- 40583 PARKER, L. T. It's the law! Black Fox Mag. & Mod. Mink Breeder 34(11):20-22. Mar.1951. 410 B56  
In fur-farming.
- 40584 PARSONS, F. The demand situation—its relationship to beef production. Corn Belt Livestock Feeder 3(5):12. Feb.1951. 280.38 C81
- 40585 PETERSEN, J. C. Outlines lamb and wool situation to Michael Di Salle. Iowa Wool News 13(2):3. Feb.17,1951. 280.28 I092
- 40586 PETERSON, E. L. The hand in your pocket. Meat 35, i.e. 34(4):53-55. Mar.1951. 286.85 M464  
Problems and regulation of the livestock industry.
- 40587 PETUKHOV, K. F. Swine fattening—an important problem. (In Russian.) Sotsialist. Zhivotnovod. 12(11):58-60. Nov.1950. 49 So71
- 40588 QUINTARD, G. Le boudif. Paris, Foulon, 1950. 58 p. 50 Q4  
Thesis - École Nationale Vétérinaire d'Alfort.
- 40589 RUDAKOV, G. The production of [Kurgan] Meat Combine was increased. (In Russian.) Miasnafa Indus. SSSR. 21(4):10-11. July/Aug.1950. 50.8 M58
- 40590 SÁNCHEZ, M. La ganadería en Inglaterra. Cult. Mod. 33:457-458. Dec.1950. 15 C89  
The cattle industry.
- 40591 SEIFERT, H. A. The sheep industry. New Zeal. Studmasters' Annu. Rev. 2:18. Sept.1950. 49.7 N48
- 40592 SINITSYN, K., and SOKOLOV, P. The plan will be fulfilled. (In Russian.) Miasnafa Indus. SSSR. 21(4):6-8. July/Aug.1950. 50.8 M58  
Meat production at the Moscow Meat Combine.
- 40593 SOTOLA, J. Sheep problems. Corn Belt Livestock Feeder 3(5):17. Feb.1951. 280.38 C81
- 40594 TAYLOR, E. H. That man from Hereford heaven; you'll hear more from likable Roy F. Turner, able Oklahoma governor, beef-cattle breeder, friend of 4-H and FFA youth. Country Gent. 121(3):37,131. Mar. 1951. 6 C833  
Includes his opinion on the future of the beef cattle industry.
- 40595 VOGTHERR, L. The meat industry. New Zeal. Studmasters' Annu. Rev. 2:15-16. Sept.1950. 49.7 N48
- 40596 VOORHIES, E. C. The sheep and wool industry; recent trends indicate continuing short supplies of lamb in California and of wool in the United States. Calif. Agr. [Calif. Sta.] 5(1):2,12. Jan.1951. 100 C12Cag
- 40597 WATSON, C. B., and PICKELL, M. W. Meat production under price controls. Corn Belt Livestock Feeder 3(5):6-7. Feb.1951. 280.38 C81
- 40598 WATSON, C. B. A program of meat abundance. West. Live Stock 36(6):18,26,74. Jan.1951. 49 W523
- 40599 WILSON, E. F. Livestock and meat in this national emergency. Breeder Stockman 12(10):79-82. Mar.1951. 49 V81
- 40600 ZAL'TSMAN, L. M. Fundamental directions in planning productive livestock production in U.S.S.R. (In Russian.) Sovet. Zootekh. 5(12):3-8. Dec.1950. 49 So822

## Analysis and Composition

- 40601 BEAR, R. S., BOLDUAN, O. E. A., and SALO, T. P. A model for collagen fibril structure derived from small-angle X-ray diffraction. Amer. Leather Chem. Assoc. J. 46:107-123. Ref. Feb.1951. 303.9 Am32
- 40602 BROWN, C. J., HILLIER, J. C., and WHATLEY, J. A. Specific gravity as a measure of the fat content of the pork carcass. J. Anim. Sci. 10:97-103. Feb.1951. 49 J82
- 40603 DEMPSEY, M., and HAINES, B. M. The directional variation of the fibre structure of Bengal lizard skins. Soc. Leather Trades' Chem. J. 34:474-477. Dec. 1950. 303.9 So12
- 40604 HALL, R. H. Changes in length of stressed collagen fibres with time. Soc. Leather Trades' Chem. J. 35:11-17. Ref. Jan.1951. 303.9 So12
- 40605 KELCH, F. Die untersuchungsmethodik zur differenzierung von fleischvergiftungserregern. Monatsh. f. Vetmed. 6:30-32. Jan.15,1951. 41.8 M742
- 40606 LIASKOVSKAYA, I. O. Chemical analysis of [animal] fat quality under industrial conditions. (In Russian.) Miasnafa Indus. SSSR. 21(4):85-87. July/Aug. 1950. 50.8 M58
- 40607 MÜLLER, M. Einiges zur bakteriologischen fleischuntersuchung. Monatsh. f. Vetmed. 6:32-34. Jan.15,1951. 41.8 M742
- 40608 NICE, G. R. Apparatus for the measurement of the water-vapour permeability of leather. Soc. Leather Trades' Chem. J. 35:17-20. Jan.1951. 303.9 So12
- 40609 NICE, G. R. The strength of single collagen fibres tanned under tension. Soc. Leather Trades' Chem. J. 35:21-27. Jan.1951. 303.9 So12
- 40610 PAL'MIN, V., BOTKINA, A., and SHAKHNAZAROVA, M. Comparative evaluation of mutton cuts. (In Russian.) Miasnafa Indus. SSSR. 21(4): 75-78. July/Aug.1950. 50.8 M58
- 40611 THAMM, H. Praktisch wichtige fragen in der bakteriologischen fleischuntersuchung. Berlin. u. Münch. Tierärztl. Wchnschr. 1950:257-264. Ref. Dec.1950. 41.8 B45

## Consumption and Utilization

- 40612 HETTERICH, J. Rationelle verwertung von tierkörpern und tierischen abfällen. Seifen-Öle-Fette-Wachse 77:3-4. Jan.3,1951. 307.8 Se4
- 40613 RICHMOND, W. L. The kind of beef people want. Shorthorn World 35(22):16-18. Feb.25,1951. 43.8 Sh8

## Distribution, Marketing, and Transportation

- 40614 BEATY, D. W. Personal livestock buying experiences. Corn Belt Livestock Feeder 3(5):8-11. Feb. 1951. 280.38 C81
- 40615 CATOR, H. J. How can breed societies help buyers of British bloodstock? Brit. Agr. B. 3:213-214. 1950/51. 10 B776
- 40616 COX, C. B. Pointers on marketing hogs in Indiana. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1951:4-6. Jan.26,1951. 275.29 In2Em
- 40617 DENVER UNION STOCKYARD CO. Sixty-fifth annual live stock report, for the year ended December 31, 1950 and summary for the years 1900-1950. n.p.,1951. 26 p. 49.9 D43
- 40618 EGGERT, R. J. Meat from producer to consumer and what's ahead. Chicago, Dept. Mktg., Amer. Meat Inst., 1950. 17 p. 50 Eg3
- 40619 ERIKSON, A. L. The current outlook on meat controls. Natl. Provisioner 124(8):18-19,21-22. Feb.24, 1951. 286.85 N21
- 40620 FORT WORTH STOCKYARDS. Forty-ninth annual livestock report, 1950. Fort Worth, 1951. 33 p. 49.9 F77



40621 FROLICH. Nachfrage zu den schweine-absatz-veranstaltungen 1950 in der Pfalz. Tierzüchter 2:655. Dec.20,1950. 49 T445

40622 HEINEMANN, C. B. Educate the consumer. Butchers Advocate 129(5):18-19,28-29. Jan.31,1951. 286.85 B97

40623 KILLEN, T. Little pigs go to market; mass producing bacon and pork by a de-assembly line helps keep the cost of marketing a hog to a minimum. Family Herald & Wk. Star 82(9):5,11. Mar.1,1951. 7 F21

40624 KNUDSON, J. K. Logistics will play vital role. Natl. Provisioner 124(8):41,44. Feb.24,1951. 286.85 N21

Livestock and meat transportation.

40625 KNUDSON, J. K. Your transportation problems. Meat 35,i.e.34(4):62-64. Mar.1951. 286.85 M464

Meat.

40626 KULL, R. Public relations roundly discussed at Washington short course. Amer. Hereford J. 41(21):124-125. Mar.1,1951. 43.8 Am32

40627 LACEY, J. J. Hog marketing can be leveled off. Capper's Farmer 62(4):22,41. Apr.1951. 6 M693

40628 LACOUTURE ACOSTA, E. Mercados ganaderos. Rev. Agr. y Ganad. 12(131):6-7. Dec.1950. 9.4 R327

Colombia.

40629 MILWAUKEE STOCKYARDS CO. Forty-fifth annual report, year ended December 31, 1950. Milwaukee, 1951. 1 p. 49.9 M64

40630 MOLLIN, F. E. Good public relations. Meat 35,i.e.34(4):60-62. Mar.1951. 286.85 M464

Meat industry.

40631 NATIONAL ASSOCIATION OF RETAIL GROCERS OF THE UNITED STATES. Panel presentation on successful self-service meat operation. Chicago, 1950. 13 p. 286.2 N214P

Panel members: G. Vander Hooning, K. Rushing, and R. Van Dyck.

40632 NERVIK, O. Case studies of livestock shipments. S. Dak. Stockgrower 4(12):8-9. Jan.15,1951. 49 So84

40633 PETERSON, E. L. Ways to by-pass road blocks. Natl. Provisioner 124(8):29,31,33,37. Feb.24, 1951. 286.85 N21

Livestock and meat marketing.

40634 PORTLAND UNION STOCK YARDS CO. Forty-first annual report; the year of 1950 with a summary for the years 1909-1950. North Portland, 1951. 16 p. 49.9 P83

40635 REID, E. P. Current developments in rail transportation; livestock freight rates case, 1950. Econ. Annal. 21:19-21. Feb.1951. 281.8 Ec72

40636 SAINT PAUL UNION STOCKYARDS CO. 63rd annual livestock report, 1950, with general market information. South Saint Paul, 1951. 32 p. 49.9 Sa23

40637 SAMPIER, J. Marking live stock reduces market error and speeds handling. Natl. Live Stock Prod. 29(6):8,17. Mar.1951. 280.38 N21

40638 SIOUX CITY STOCK YARDS CO. Sixty-fourth annual report of receipts and shipments for year ended December 31, 1950. Sioux City, 1951. folder. 49.9 Si72

40639 STODART, J. A. Put a bottom in the market. Farmers Wk. [London] 34(6):49. Feb.9,1951. 10 F2226

Meat marketing system in Great Britain.

40640 THOMPSON, S. H. Seasonal trends in cattle marketing. Cattleman 37(10):38,78,80. Mar.1951. 49 C29

40641 WILCOX, F. R. A chinchilla cooperative? Yes. Natl. Chinchilla Breeder 6(12):7,26,28. Feb.1951. 412.628 N21

#### Grading, Inspection, Standardization, and Quality

40642 AL'BATS, S., OSMOLOVSKAIA, M., and SMIRNOVA, K. Inspection of products from sausage meat. (In Russian.) Miasnafa Indus. SSSR. 21(4):95. July/Aug.1950. 50.8 M58

40643 ASHTON, G. C. The carcass quality of bacon hogs; how it is affected by breeding, feeding and other factors. Agr. Inst. Rev. 5(6):35-37,39-40. Nov.1950. 7 Ag8

40644 CHANGES in grades for slaughter cattle and beef. Breeder-Stockman 12(10):33-34. Mar.1951. 49 V81

40645 CUFF, R. L. Carelessness costs \$33,000,000 yearly. West. Farm Life 53(6):37,42. Mar.15,1951. 6 R153

Losses in livestock products result of bruising and crippling livestock and the failure to control internal and external parasites.

40646 DUMONT, B. Les concours de carcasses de bovins et d'ovins. Bétail & Basse-Cour 6:24-25. Jan. 1951. 49 B462

40647 FAGAN, V. J. Tasmanian Baconer Carcase Competition, 1950. Tasmania. Dept. Agr. Tasmanian J. Agr. 21:277-287. Nov.1,1950. 23 T182T

40648 FERRIS, J. Possibilities of carcass grading studied at Purdue. Purdue Agr. 42(5):3,16-17. Feb.1951. 6 P97

40649 GREEN, M. E. Some factors influencing the slicing quality and the palatability of canned beef. Iowa State Col. J. Sci. 25:236-238. Jan.1951. 470 Io9

Abstract of thesis (Ph. D.).

40650 MCCOLLOCH, C. L. Cattle grades are changed to fit new carcass grades. Mont. Stockgrower 23(2):8,10. Feb.15,1951. 49 M76

40651 MITCHELL, M. P. Government beef grades revised. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1951:3. Jan.26,1951. 275.29 In2Em

40652 RAMSBOTTOM, J. M., GOESER, P. A., and SHULTZ, H. W. How light discolors meat: what to do about it. Food Indus. 23(2):120-124,222-223. Feb.1951. 389.8 F737

40653 SCHOENE, W. Nachmalz zur frage der fleischvergifter. Monatsh. f. Vetmed. 6:34-37. Jan.15, 1951. 41.8 M742

40654 THOMPSON, D. S. The Tasmanian Export Lamb Carcase Competitions, 1949-50. Tasmania. Forestry Comm. Rpt. 21:288-295. Nov.1,1950. 23 T182T

Also in Tasmania. Dept. Agr. Tasmanian J. Agr. 21: 288-295. Nov.1,1950. 23 T182T

40655 U. S. PRODUCTION AND MARKETING ADMIN. Changes in beef grades. U. S. D. A. Misc. P. 553(sup.), 1 p. 1950. 1 Ag84M

40656 U. S. PRODUCTION AND MARKETING ADMIN. Official United States standards for grades of carcass beef. Reprinted with amendments. U. S. Prod. & Mktg. Admin. S. R. A.-P. M. A. 99,8 p. Dec.1950. 1 M34S

#### Packing and Packaging

40657 ARMOUR AND CO., CHICAGO. ARMOUR LABORATORIES. CHEMICAL RESEARCH AND DEVELOPMENT DEPT. Technical aspects of self-service meats. Chicago, 1950. 42 p. 50 Ar52

Packaging.

40658 HOUESHELL, D. F. Self-service meat packaging and the outlook for the future. Butchers' Advocate 129(11):16-17. Mar.14,1951. 286.85 B97

Similar title in Meat 35,i.e.34(4):56-58. Mar.1951. 286.85 M464 and Natl. Provisioner 124(8):37,41. Feb.24, 1951. 286.85 N21

40659 ROBERTSON, E. J. Prepackaged frozen meats. Refrig. Engin. 58:771-775,816-818. Aug.1950. 295.9 Am32J

Includes discussion.

#### Prices, Price Control, and Rationing

40660 CONWAY, H. M. Parity price concept potentially perilous to all live stock. Natl. Live Stock Prod. 29(6):6,21. Mar.1951. 280.38 N21

40661 COUVREUR, F. P. Nouvelles mesures gouvernementales contre la hausse du veau et du porc. J. de la France Agr. 7:1337,1339. Jan.26/Feb.1,1951. 14 J829

40662 ERIKSON, A. L. Price controls. Meat 35,i.e.34(4):64-67. Mar.1951. 286.85 M464

Meat and livestock.

40663 FRENCH, H. W. Cattle market breaks but only after new highs. Amer. Cattle Prod. 32(10):12,34. Mar. 1951. 49 P94

40664 HOPPE, J. L. Meat controls are here again. Meat Merchandising 27(3):34-37. Mar.1951. 286.85 M462

Price control.

40665 MOLLIN, F. E. Price ceilings—will they work this time? Breeder-Stockman 12(10):17-18,20-21. Mar. 1951. 49 V81

Meat and livestock.



40666 SALISBURY, G. Good prices at local markets. *Successful Farming* 49(3):152,154. Mar.1951. 6 Sul2  
Livestock prices.

40667 WATSON, C. B. National policies affecting livestock prices. *Corn Belt Livestock Feeder* 3(5):21-23. Feb.1951. 280.38 C81

#### Processing and Storage

40668 ADAMS, A. T., AYRES, J. C., and TISCHER, R. G. The effect of subtilin and heat in preventing spoilage of comminuted beef. *Food Technol.* 5(2):82. Feb. 1951. 389.8 F7398

40669 BOUMPHREY, G. Pleasures of pig curing at home. *Farmer & Countryman* 39(52):13. (To be cont.) Dec.29,1950. 24 F227

40670 CHEN, P. S. Syntans and newer tanning methods. *Leather Mfr.* 62:7-8,24. (Cont.) Jan.1951. 303.8 L484

40671 DEMPSEY, M. The soaking of Australian dried woollskin. *Soc. Leather Trades' Chem. J.* 34:464-473. Dec.1950. 303.9 Sol2

40672 DICKINSON, T. A. Making leather with sound waves; ultrasonics may now revolutionize some aspects of tanning. *Leather & Shoes* 121(7):8-9,33-34. Feb.17, 1951. 303.8 H53

40673 FAIDLEY, K. Meat packing—great industry. *Kans. Agr. Student* 27(2):6,29,34. Dec.1950. 276.8 K13

40674 FORBES, E. F. Vigilant action promised WSMFA. (Sum.) *Natl. Provisioner* 124(8):15-16,18. Feb.24,1951. 286.85 N21

40675 FURLONG, J. R. Hide and skin preservation. *Leather World* 43:26,28,30. Jan.11,1951. 303.8 L482  
Drying and tanning of goat and cattle hides.

40676 GNOEVOI, P., and MISHCHENKO, E. Mechanized frying and smoking chambers [at Moscow sausage factory]. (In Russian.) *Miasnafa Indus. SSSR.* 21(4):31-33. July/Aug.1950. 50.8 M58

40677 GOETZ, A. W. Leather and tanning processes. *Leather Mfr.* 62:5-6. (To be cont.) Jan.1951. 303.8 L484

40678 HALL, C. Tanning machinery in practice. III. *Leather Trades' Rev.* 99:131-133. Jan.10,1951. 303.8 L48

40679 HENRICKSON, R. L., and COFER, E. S. Home freezing meat and poultry. *W. Va. Agr. Col. Ext. C.* 360,19 p. Jan.1951. 275.29 W522C

40680 IL'IN, A., and LAPTEV, F. Sanitary preparation of meat combines for the season. (In Russian.) *Miasnafa Indus. SSSR.* 21(4):15-17. July/Aug.1950. 50.8 M58

40681 JOHNSON, O. C., and FROST, L. J. Some factors in preventing discoloration of canned meat products. *Natl. Canners Assoc. Inform. Let.* 1325:90-92. Feb.28,1951. 389.9 N214In  
Also in *Natl. Provisioner* 124(10):14-15,28-29. Mar.10, 1951. 286.85 N21

40682 KLANFER, K., and KENEDI, P. Studies in two-bath chrome tanning. I. *Amer. Leather Chem. Assoc. J.* 46:78-106. Feb.1951. 303.9 Am32

40683 KRAMER, A. J. The Pavia process of producing lard. *Meat* 35,i.e.34(4):52-53. Mar.1951. 286.85 M464

Similar title in *Natl. Provisioner* 124(8):24,26. Feb.24, 1951. 286.85 N21

40684 LANCEFIELD, S. The canning of ham. *Food [London]* 20(233):47-51. Feb.1951. 389.8 F738

40685 LAPSHIN, A. A continuously operating sausage meat mixer. (In Russian.) *Miasnafa Indus. SSSR.* 21(4):33-35. July/Aug.1950. 50.8 M58

40686 OGILVY, W. S. Storage of meat in carbon dioxide atmospheres at temperatures above freezing. *Iowa State Col. J. Sci.* 25:323-325. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).

40687 OWTRAM, I. H. Country slaughterhouse piggeries. *New Zeal. J. Agr.* 81:559,561-562. Dec.15,1950. 23 N48J

Chiefly processing pork products.

40688 RUPP, V. R. The food technologist in the meat canning industry. *Food Technol.* 5(2):83-84. Feb. 1951. 389.8 F7398

40689 SKRYPNIK, A. Mechanization of filling intestines with air at the small meat combines. (In Russian.) *Miasnafa Indus. SSSR.* 21(4):36-37. July/Aug. 1950. 50.8 M58

40690 SOMERVILLE, I. C. Chrome and zirconium leathers. *Leather Mfr.* 62(2):5,7,9. Feb.1951. 303.8 L484

Tanning.

40691 TARNOPOL'SKIĬ, È. An enterprise is being fitted out with the new technique. (In Russian.) *Miasnafa Indus. SSSR.* 21(4):11-12. July/Aug.1950. 50.8 M58  
Troitskii Meat Canning Combine.

40692 TYLER, N. Freezing is the ideal way to preserve meat. *Breeder-Stockman* 12(10):65. Mar.1951. 49 V81

40693 VIRNIK, D. Preparation of bones for glue production. (In Russian.) *Miasnafa Indus. SSSR.* 21(4):79-80. July/Aug.1950. 50.8 M58

40694 WESTERN STATES MEATPACKERS ASSOCIATION. 1951 convention report. *Natl. Provisioner* 124(8):12-61. Feb.24,1951. 286.85 N21  
Similar title in *Meat* 35,i.e.34(4):49-70. Mar.1951. 286.85 M464

#### Statistics

40695 HOW MANY? Annual livestock inventory shows beef cattle numbers at an all-time high—some 10 percent more cows than year ago—average value at new high level—hog and sheep numbers are also up. *Amer. Hereford J.* 41(21):16-17. Mar.1,1951. 43.8 Am32

40696 LOS ANGELES COUNTY, CALIFORNIA. LIVE-STOCK DEPT. Estimated livestock production of Los Angeles County during 1950. *Los Angeles*, 1950. 4 p. 49.9 L89E

40697 SCHULTE-WULWER. Der viehbestand in Weser-Ems im dezember 1950. *Landwirtbl. Weser-Ems* 98:73-74. Jan.25,1951. 18 L2345

40698 U. S. BUR. OF AGRICULTURAL ECONOMICS. Annual livestock report. *Austin*, 1951. 2 p. 1.941 H8L7555

40699 U. S. BUR. OF AGRICULTURAL ECONOMICS. Annual livestock report of as of January 1, 1951. *Orlando*, 1951. 2 p. 1.941 H8L755

Similar report for Montana. 1.941 H8L7553.

Statistics.

40700 U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle and sheep and lambs on feed, January 1, 1951. *Oklahoma City*, 1951. 2 p. 1.941 H8C29

40701 U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle on feed, January 1, 1951. *Fargo*, 1951. 2 p. 1.941 H8Sh4

40702 U. S. BUR. OF AGRICULTURAL ECONOMICS. Early spring lamb crop, 1951. *Washington*, 1951. 2 p. 1.9 Ec742E

40703 U. S. BUR. OF AGRICULTURAL ECONOMICS. Idaho annual livestock report. *Boise*, 1951. 2 p. 1.941 H8L7552

40704 U. S. BUR. OF AGRICULTURAL ECONOMICS. Sheep and lambs on feed, January 1, 1951. *Austin*, 1951. 2 p. 1.941 H3Sh33

40705 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Changes in livestock numbers, by A. Nordquist, G. Simpson, and M. E. Bliss. *Washington*, 1951. 4 p. 1.914 R2R11

40706 WAHLFISK, K. O. Produktionen och förbrukningen av viktiga jordbruksprodukter under regleringsåret 1949/50. II [Production and consumption of the more important agricultural products during the year 1949/50. II]. *Sweden. Stat. Jordbrämsnd. Jordbrekon. Meddel.* 12:326-338. Nov.1950. 257.3 J76  
Livestock products.

40707 WALTER, F. Entwicklung der fohlenhaltung in Westfalen. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:168. Feb.1,1951. 18 L2346  
Statistical.

40708 YEAGER, C. 50 per cent of Texas cattle in East Texas. *East Tex.* 25(6):8. Mar.1951. 6 Ea73

40709 ZHUKOV, G. Proper organization of livestock inventory by breeds on a collective farm. (In Russian.) *Kolkhoz. Proizvodstvo* 10(9):40-43. Sept.1950. 281.8 K83

#### OILS AND OILSEEDS

40710 ANANTAKRISHNAN, C. P., BHALERAO, V. R., and VENKATAPPAH, D. Component acids of coconut oil. *Indian J. Vet. Sci. & Anim. Husb.* 19:233-236. Sept.1949, pub.1950. 41.8 I222



- 40711 ARESPOCHAGA, J. DE. Consideraciones sobre el momento actual de la economía oleícola. Inform. Com. Españ. 207:1545-1549. Nov.1950. 286.8 In3  
Text in English, p. 1555-1556.
- 40712 ASTORGA C., M. Nuestro país produce ya casi todo el aceite comestible que consume. Campesino [Santiago] 83:21,23-25. Jan.1951. 9.3 So12  
Chile.
- 40713 BERGILLOS DEL RIO, A. Aceitunas de mesa: su preparación y conservación. Siembra [Madrid] 6(11): 26-29. Nov.1950. 15 S11
- 40714 BLANCO SANTAMARIA, G. Aceites esenciales. Inform. Com. Españ. 206:1374-1379. Oct.1950. 286.8 In3  
Text in English, p. 1405-1408.  
The industry in Spain.
- 40715 BOURLET, G. La rationalisation de la production des oléagineux. Marchés Colon. 7:113-114. Jan.13, 1951. 286.8 M33  
French Equatorial Africa.
- 40716 BRECKMAN, F. Campaign goes into full swing to repeal Pennsylvania oleo law. Pa. Grange News 47(12):2. Mar.1951. 6 P38
- 40717 BUDOWSKI, P., and MARKLEY, K. S. The chemical and physiological properties of sesame oil. Chem. Rev. 48:125-151. Ref. Feb.1951. 381 C425
- 40718 CLINES, C. Castor beans—new Texas-Oklahoma crop. Prog. Farmer, Tex. Ed. 66(3):19,151. Mar. 1951. 6 T311
- 40719 CONGRESO INTERNACIONAL DE OLEICULTURA, 13, 1950. Conclusiones. Agricultura [Madrid] 19: 610-617. (To be cont.) Dec.1950. 15 Ag84
- 40720 CROOKS, D. M. The castor bean outlook. Reclam. Era 37:47. Mar.1951. 156.84 R24
- 40721 DOMINGO, W. E. Castor beans, a truly chemurgic crop. Chemurg. Digest 10(3):7-8. Mar.1951. 381 N213Na
- 40722 DUMONT, H. M. The rarer essential oils and their applications in perfumery. Soap, Perfumery & Cosmetics. Ybk. & Buyer's Guide 1951:1-17. 307.8 So13B
- 40723 ERMISCH, K. H. Pflanzliche oele und fette aus warmen zonen. Thalacker Ernähr.-Anz. 4(3):3. (Cont.) Jan.17,1951. 389.8 T32
- 40724 EVANS, R. J., GROSCHKE, A. C., and BUTTS, H. A. Studies on the heat inactivation of cystine in soybean oil meal. Arch. Biochem. 30:414-422. Ref. Feb. 1951. 381 Ar2
- 40725 FILHES, A. Les facteurs physico-chimiques dans l'extraction des huiles de palme par lavage-malaxage. Oléagineux 6:151-157. Mar.1951. 77.8 OL2
- 40726 FLETCHER, A. L. Know your ingredients; bakery fats. Brit. Baker 122:312-313. (To be cont.) Mar. 2,1951. 389.8 B772
- 40727 GARCIA DE ANDOAIN, J. Algunos problemas que se plantean dentro de la economía nacional de grasas y aceites comestibles. Siembra [Madrid] 6(11):19-22. Nov.1950. 15 S11  
Spain.
- 40728 GERIGNY, P. La crise du marché de l'arachide. Marchés Colon. 7:410-411. Feb.10,1951. 286.8 M33
- 40729 HEMPEL, S., and JEDRASZKO, M. Determination of moisture in fats. (In Polish.) Przem. Chem. 6: 601-602. Oct.1950. 385 P952  
English summary.
- 40730 HIERONYMUS, T. A. Futures trading and speculation in soybeans by country elevators. Grain & Feed Rev. 40(7):20,22,56-57. Mar.1951. 280.28 C78
- 40731 HILDITCH, T. P. The fats: 1900-1950; an essay in historical chemistry. Chem. & Indus. 1951:154-159. Mar.3,1951. 382 M31C
- 40732 HILDITCH, T. P., PATEL, C. B., and RILEY, J. P. The spectrographic determination of linoleic and linolenic acids. Analyst 76:81-87. Ref. Feb.1951. 382 An1  
In vegetable oils.
- 40733 JACOBS, M. B. Confectionery fats and oils. Internatl. Confectioner 60(12):32,44. Dec.1950. 389.8 In214
- 40734 JENSEN, E. A., LAMBOU, M. G., and ALT-SCHUL, A. M. Research on storage of cottonseed. Cotton Gin & Oil Mill Press 52(4):17,44-45. Feb.17,1951. 304.8 C822  
Also in Oil Mill Gaz. 55(8):55-59. Feb.1951. 307.8 Oi53
- 40735 JUON, L. Rancidifying and acidity in olive oil. (In Italian.) Agenzia Romana Note e Inform. Agr. 8:7-8. Jan.31,1951. 281.8 Ag3
- 40736 KAUFMANN, H. P. Neue wege der fettanalyse. Fette u. Seifen 52:713-721. Dec.1950. 384 C422
- 40737 KNOEPFLER, N. B., and others. Research on fractionation of cottonseed meats. Cotton Gin & Oil Mill Press 52(4):16,39-42. Feb.17,1951. 304.8 C822  
A. V. Graci, Jr., J. J. Spadaro, and E. A. Gastrock, joint authors.  
Also in Oil Mill Gaz. 55(8):66-71. Feb.1951. 307.8 Oi53
- 40738 KOPETZ, L. M. Verstärkter Ölfruchtbauln Schweden. Pflug 4:9. Jan.1951. 19 P48  
Area.
- 40739 KRONE, R. Proper storage extends flavor life of quality essential oils. Confectionery-Ice Cream World 45(12):21. Mar.26,1951. 389.8 C767
- 40740 LACKNER, H., and FLASCHKA, H. Mikromethoden im farben- und lacklaboratorium, II. Die bestimmung der säurezahl von ölen. Fette u. Seifen 52: 737-739. Dec.1950. 384 C422
- 40741 LASSAU, L. L'huile d'olive de Tunisie. Nouvelle Rev. Franc. d'Outre-Mer (n.s.)43:23-24. Feb. 1951. 280.8 B873  
The industry.
- 40742 LECOMTE, J. Les possibilités offertes par le spectre infrarouge pour l'étude des constituants des corps gras. II-III. Oléagineux 6:72-81,127-136. Ref. Feb.-Mar.1951. 77.8 OL2
- 40743 MAJORELLE, A. Les matériels modernes d'oléfaction et l'équipement des nouvelles huileries co-operatives. B. Econ. et Social de la Tunisie 47:29-44:48: 32-42. (To be cont.) Dec.1950-Jan.1951. 280.8 B874
- 40744 MARTINEZ MORENO, J. M. Aprovechamiento del aceite de orujo. Ion 10:579-585. Oct.1950. 385 Io6
- 40745 MATAGRIN, A. Les phytostéroïdes du soja et les synthèses d'hormones et de vitamines à constitution stéroïde. Indus. Agr. et Aliment. 67:449-457. (Cont.) Nov.1950. 383 As7  
English summary.
- 40746 MEMPHIS (TENN.) MERCHANTS EXCHANGE. Cottonseed [1939/48-1950]. Memphis,1950. 1 p. 287 M512Co  
Statistics.
- 40747 MENDEZ LEON, C. La extracción del aceite puede hacerse sin empleo de molinos ni disolventes. Siembra [Madrid] 6(11):81-82. Nov.1950. 15 S11  
Olive oil.
- 40748 MENSIER, P. H. L'huile de soja aux États-Unis. Oléagineux 6:82-89. Feb.1951. 77.8 OL2
- 40749 MERZARI, A. H., and MOLINA, J. S. Influencia del aceite esencial de hinojo en el proceso fermentativo de aceitunas verdes "tipo español." II. Rev. Argentina de Agron. 17:241-248. Ref. Dec.1950. 9 R327  
English summary.
- 40750 MICHAUX, L. Les huileries de palme. Cahiers Franç. d'Inform. 173:5-8. Feb.1,1951. 280.8 C11  
The palm oil industry in Africa.
- 40751 MOLINA, J. S. Mendoza produce aceitunas verdes "tipo español." Chacra 21(243):54-55. Feb. 1951. 9 C34
- 40752 NIGERIA OIL PALM PRODUCE MARKETING BOARD. First annual report, 1949. Brighton,1950. 58 p. 77.9 N562
- 40753 PATAC DE LAS TRAVIESAS, L. Las cuestiones comerciales en el Congreso de Oleicultura. Agricultura [Madrid] 19:599-600. Dec.1950. 15 Ag84
- 40754 PATINO, V. M. Esquema sobre el desarrollo de la industria de aceites vegetales en el Occidente Colombiano. III. Rev. Agr. y Ganad. 12(131):25-28. Dec. 1950. 9.4 R327
- 40755 PEAKE, H. C. Money from peppermint; peppermint oil, combined with menthol oil and other products, is being produced in various parts of Canada. Family Herald & Wk. Star 82(10):3,14. Mar.8,1951. 7 F21
- 40756 PEFFUMERY AND ESSENTIAL OIL RECORD. Year book for 1951. London,1951. 196 p. 308.9 P41
- 40757 PETIT, J. L'huile de ricin, matière première de l'industrie chimique. Nature [Paris] 3190:45-47. Feb.1951. 473 N21
- 40758 PORÉ, J. Estéro-alcoolise des huiles végétales acides. Oléagineux 6:90-93. Feb.1951. 77.8 OL2
- 40759 PURYEAR, M. Homemade dryer saves farmer's peanut crop. Rur. Electr. 9(6):52. Mar.1951. 335.8 N21
- 40760 RISUENO, A. La técnica y el olivo. Siembra [Madrid] 6(11):30-32. Nov.1950. 15 S11  
Olive oil extraction.



- 40761 RODRIGUEZ PINERO, J. M. El aceite y la medicina. Siembra [Madrid] 6(11):35-36. Nov.1950. 15 S11  
Properties.
- 40762 ROELS, O., and THURIAUX, L. Composition des acides gras totaux d'un échantillon d'huile de pulpe d'*Elaeis melanococca* Gaertner, récolté à Yangambi. Inst. Roy. Colon. Belge. B. des Séances 21:730-737. Ref. 1950. 504 B836
- 40763 ROMERO RODRIGUEZ, J. Aceitunas de mesa. Agricultura [Madrid] 19:584-588. Dec.1950. 15 Ag84  
Processing and varieties.
- 40764 ROSSIN, M. Troisième compte rendu sur le développement du plan de culture mécanisée de l'arachide dans l'Est Africain Anglais (Situation en juin 1950). Agron. Trop. 6:3-28. Jan./Feb.1951. 26 Ag86
- 40765 RUBINCHIK, I. A. D. Method of warming up ether for determining oil content in seeds. (In Russian.) Selekt. i Semen. 17(10):55-56. Oct.1950. 61.9 Se5
- 40766 RUSOFF, I. I., HOLMAN, R. T., and BURR, G. O. Spectroscopic data on fats, fatty acids, and their esters. Soap, Perfumery & Cosmetics Ybk. & Buyer's Guide 1951:47-51. Ref. 307.8 So13B
- 40767 SCHOOLCRAFT, C. D. Peanut holdings heaviest on record. Peanut J. & Nut World 30(5):25-26. Mar.1951. 77.8 P313
- 40768 SCHUTTAUF, W. Zur geschichte der margarine. Deut. Milchhandels-Ztg. 73:20-21. Jan.12,1951. 44.8 D48
- 40769 SEALS, W. F. National peanut week adds prestige. Peanut J. & Nut World 30(5):19-20. Mar.1951. 77.8 P313
- 40770 SHELEY, M. Bogalusa Tung Incorporated spreads over 12,000 acres. Amer. Tung News 2(2):6-7. Feb.1951. 307.8 Am33
- 40771 SOAP, PERFUMERY & COSMETICS. Year book and buyer's guide 1951. London,1951. 319 p. 307.8 So13B  
Includes data on oils and fats.
- 40772 SOROA, J. M. DE. Corrección, mejora y refinado de los aceites de oliva. Agricultura [Madrid] 19:593-596. Dec.1950. 15 Ag84
- 40773 SOROA, J. M. DE. Utilización de los residuos de elayotecnía. Siembra [Madrid] 6(11):15-18. Nov.1950. 15 S11
- 40774 TABLANTES MARQUES, DE. Consideraciones acerca del valor de los aceites. Agricultura [Madrid] 19:597-598. Dec.1950. 15 Ag84  
The industry, in Spain.
- 40775 TILLMANN, F. Probleme der fettversorgung auf dem ernährungssektor. Fette u. Seifen 52:749-752. Dec.1950. 384 C422  
Germany.
- 40776 U. S. BUR. OF AGRICULTURAL ECONOMICS. Idaho rapeseed production in 1950. Boise,1951. 1 p. 1.941 H8R18
- 40777 U. S. CONGRESS. HOUSE. Peanut acreage allotments and marketing quotas; report [to accompany H. R. 2615]. 82 Cong., 1st sess. H. Rept. 169,15 p. 1951.
- 40778 U. S. EXTENSION SERV. Soybean and flaxseed summary for the crop year beginning July 1949 for flaxseed, and October 1949 for soybeans. Chicago,1951. 4 p. 1.913 A3So9  
U. S. Commodity Exchange Authority and U. S. Production and Marketing Administration cooperating.
- 40779 VIGUERA LOBO, J. M., PÉREZ MARÍN, P., and ROYO IRANZO, J. Aportación al estudio del aceite de semillas de los agrios, con referencia especial del procedente de la naranja dulce del Levante Español. Ion 10:651-654. Ref. Nov.1950. 385 Io6
- 40780 WAGNER, K. H. Die vitaminisierung der deutschen margarine; ein beitrag zu dem problem der azofarben als färbemittel für lebensmittel. Internatl. Z. f. Vitaminforsch. 22:289-308. Ref. 1950. 389.8 Z33  
English summary.
- 40781 WALSH, R. M. The world fats and oils situation. Washington, U. S. Prod. & Mktg. Admin.,1951. 4 p. 1.941 A2W16  
Address, Third Annual Tri-State Soybean Conference of Processors and Agronomists from Illinois, Indiana, Ohio, at University of Illinois, Mar. 22, 1951.
- 40782 WANG, S. M., and BANG, H. Chromatographic analysis of Kennewick, Washington peppermint oil. Amer. Pharm. Assoc. J. Sci. Ed. 40:113-115. Feb.1951. 396.9 Am33J
- 40783 WHITHER margarine? Second World War played into hands of its manufacturers in many countries. New Zeal. Dairy Exporter 26(7):29-30. Jan.1951. 44.8 N484
- 40784 WILSON, R. Improved film-forming materials from dehydrated castor oil. Oil & Colour Chem. Assoc. J. 33:503-519. Ref. Dec.1950. 306.9 O15  
Includes discussion.

## POULTRY AND POULTRY PRODUCTS

- 40785 ALEXANDER, L. M., and others. Yield of cooked edible portion of turkey according to sex, age, fatness, and breast type. Poultry Sci. 30:187-195. Ref. Mar.1951. 47.8 Am33P  
G. E. Schopmeyer, J. C. Lamb, and S. J. Marsden, joint authors.
- 40786 ALP, H. H. Today's poultry industry will not be fenced in! Nation's Agr. 26(3):16. Mar.1951. 280.82 B89
- 40787 ASPEREN-VERVENNE, B. VAN. The poultry industry after the liberation. (In Dutch.) Pluimveeteelt 4(1):5. Jan.5,1951. 47.8 P722  
Netherlands.
- 40788 BAKER, R. C. You want good eggs. Poultry Indus. [Boston] 55(3):11. Mar.1951. 47.8 N44
- 40789 BAKER, R. L. Some factors affecting quantity and quality of eggs marketed by certain producers. Iowa State Col. J. Sci. 25:136-138. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 40790 BAKER, R. L., and FORSYTHE, R. H. U. S. standards for quality of individual shell eggs and the relationships between candled appearance and more objective quality measures. Poultry Sci. 30:269-279. Ref. Mar.1951. 47.8 Am33P
- 40791 BENJAMIN, E. W. Resume of plans for better interior quality of eggs. Amer. Egg & Poultry Rev. 12(2):8,10,14,80. Feb.1951. 47.8 Am38
- 40792 BENJAMIN, E. W. There are too many 4F eggs. Amer. Egg & Poultry Rev. 12(2):42,44,46,73-74. Feb.1951. 47.8 Am38
- 40793 BINKLEY, C. H., and VASAK, O. R. A friable meal produced from feathers. Amer. Egg & Poultry Rev. 12(2):68,70,72. Feb.1951. 47.8 Am38
- 40794 BLOUNT, W. P. They handle 5,000 birds a day in Europe's largest packing plant. Poultry Farmer [London] 124(3209):12-13. Feb.2,1951. 47.8 F312  
At Ringsted, Denmark.
- 40795 BODWELL, J. H. Motorized pullman service for chicks. New Eng. Homestead 124(3):7,12. Feb.10, 1951. 6 N442
- 40796 BOSE, S., and MAHADEVAN, T. D. The effects of heat treatment and lime sealing on the preservation of shell eggs. Indian J. Vet. Sci. & Anim. Husb. 19:229-232. Sept.1949, pub.1950. 41.8 In22
- 40797 BOWES, C. G. What retailers say about your products. (Condensed.) U. S. Egg & Poultry Mag. 57(3):9-10,27-28. Mar.1951. 286.83 Eg3  
Poultry marketing.
- 40798 BRANT, A. W. Bone darkening in frozen poultry. Iowa State Col. J. Sci. 25:172-173. Jan.1951. 470 Io9  
Abstract of thesis (Ph. D.).
- 40799 CARRINGTON, H. B. Organisation of a modern egg-marketing society. In Agricultural Co-operative Association. The farmer in business, p.45-51. London, 1950. 280.2 Ag83F
- 40800 ELKINGTON, W. M. Forty years in the poultry industry. Poultry Assoc. Gt. Brit. Ybk. 1951:58-62. 47.9 P864Y
- 40801 FLOREA, J. H. PENB [Poultry and Egg National Board] completes ten years—looks ahead. Broiler Growing 2(3):18,20. Mar.1951. 47.8 B782
- 40802 FORSYTHE, R. H., and BERGQUIST, D. H. The effect of physical treatments on some properties of egg white. Poultry Sci. 30:302-311. Mar.1951. Ref. 47.8 Am33P
- 40803 FRANCIS, M. Stress "good egg" theme in advertising. Feedstuffs 23(8):42-43. Feb.24,1951. 286.81 F322
- 40804 GUSLER, G. The outlook for poultry. Farmer [St. Paul], Gen. Ed. 69(3):7,47-48. Feb.3,1951. 6 F2211  
Also in Nebr. Farmer 93(4):8. Feb.17,1951. 6 N27 and in Ohio Farmer 207(3):22-23. Feb.3,1951. 6 Oh3



- 40805 GWIN, J. M. The weight and quality of freshly-dressed poultry as affected by dressing, cooling, holding. *Amer. Egg & Poultry Rev.* 12(2):38,40. Feb.1951. 47.8 Am38
- 40806 HARVEY, J. R. To avoid criticism—do nothing, say nothing, be nothing; how this does not apply to Poultry Association of Great Britain. *Poultry Assoc. Gt. Brit. Ybk.* 1951:52-56. 47.9 P864Y
- 40807 HAYES, J. B., and JORGENSEN, E. A. Evaluating extension program. *Poultry Sci.* 30:314-315. Mar.1951. 47.8 Am33P  
Research in egg marketing.
- 40808 HUNT, K. E. The egg situation, 1949/1950. *Poultry Assoc. Gt. Brit. Ybk.* 1951:26-39. 47.9 P864Y
- 40809 HUNTINGTON, H. I. Consumer education pays off in the U.S.A. *Poultry Assoc. Gt. Brit. Ybk.* 1951:42-48. 47.9 P864Y  
Public relations, especially work of the Poultry and Egg National Board.
- 40810 HUNTINGTON, H. I. Educating retailers on poultry selling. *Calif. Grocers Advocate* 55(43):40,42. Oct.27,1950. 286.28 C12
- 40811 HUTTAR, J. C. To wash or not to wash [eggs]—that is the question. *Amer. Egg & Poultry Rev.* 12(2):84, 86. Feb.1951. 47.8 Am38
- 40812 KARPOFF, E. Outlook for shell egg storage. *Ice & Refrig.* 120:45-48. Jan.1951. 295.8 Ic2
- 40813 KEARNEY, C. F. Armed services poultry and egg procurement. *Seoast. Poultryman* 4(2):10,18-23. Feb.1951. 47.8 So872  
Also in *Va. Poultryman* 5(2):10,18-23. Feb.1951. 47.8 V812
- 40814 KLEIN, G. T. Our changing poultry industry. *Rur. New-Yorker* 101:82,118. Feb.3,1951. 6 R88
- 40815 KLINE, L., and SONODA, T. T. Role of glucose in the storage deterioration of whole egg powder. *I. Food Technol.* 5:90-94. Ref. Mar.1951. 389.8 F7398
- 40816 LANKFORD, L. T. Report on egg marketing. *Ark. Poultry Impr. Assoc. Ybk.* 1951:62-63. 47.9 Ar4
- 40817 LARZELERE, H. E. Egg price variations in Michigan. *Mich. State Col. Agr. Ext. Mich. Farm Econ.* 98:2-3. Feb.1951. 275.29 M58A
- 40818 LAWLESS, E. J., JR. Know your interstate poultry shipping laws. *Everybodys Poultry Mag.* 56(3):11, 32-35. Mar.1951. 47.8 F213P
- 40819 LOCK, A. P. Order your chicks now! *Everybodys Poultry Mag.* 56(2):26. Feb.1951. 47.8 F213P
- 40820 MCCULLOCH, A. C. Who is missing the boat? *Marit. Farmer & Coop. Dairyman* 56(10):3,33. Feb.20, 1951. 7 C77  
Poultry industry in New Brunswick.
- 40821 MILBURY, A. T. Protect that egg quality. *Amer. Egg & Poultry Rev.* 12(2):92-93. Feb.1951. 47.8 Am38
- 40822 MILLER, C., and WINTER, A. R. Pasteurized frozen whole egg and yolk for mayonnaise production. *Food Res.* 16:43-49. Ref. Jan./Feb.1951. 389.8 F7322
- 40823 MOORE, A. C. We must get high-priced eggs despite the weather. *Poultry [London]* 108:128. Feb.13, 1951. 47.8 P869
- 40824 MORTENSEN, H. The egg prices. (In Danish.) *Andelsbladet* 52:144. Feb.8,1951. 280.28 An2  
Denmark.
- 40825 MORTENSON, W. P. Egg marketing margins too wide? *Successful Farming* 49(3):26,155. Mar.1951. 6 Su12
- 40826 NADEN, K. D., and JACKSON, G., JR. Quality of fresh chicken meat. *Co-op. Poultryman* 16(3):4-5,16-17. Mar.1951. 47.8 C782  
Also in *Calif. Agr. [Calif. Sta.]* 5(2):10-11,16. Feb. 1951. 100 C12Cag
- 40827 NASH, F. M. Poultry industry in Prince Edward Island. *Marit. Farmer & Coop. Dairyman* 56(10):7. Feb.20,1951. 7 C77
- 40828 NEW SOUTH WALES. EGG MARKETING BOARD. The twenty-second annual report. *Poultry Farmer [Sydney]* 18(29):3-14. Jan.20,1951. 280.28 Or32
- 40829 ODELL, J. G. Let's look at the facts and then use them! (Condensed.) *U. S. Egg & Poultry Mag.* 57(3): 11-12,28-29. Mar.1951. 286.83 Eg3  
The frozen egg industry.
- 40830 OGILVY, W. S., and AYRES, J. C. Post-mortem changes in stored meats. II. The effect of atmospheres containing carbon dioxide in prolonging the storage life of cut-up chicken. *Food Technol.* 5:97-102. Ref. Mar. 1951. 389.8 F7398
- 40831 PAIEMENT, R. J. Talking turkey in Quebec; in several districts of the province turkey raising for the Christmas market has become a big co-operative business. *Family Herald & Wk. Star* 82(5):3. Feb.1,1951. 7 F21
- 40832 PANKOVA, F. Rational method for processing down and feathers. (In Russian.) *Mfasnafa Indus. SSSR.* 21(4):70-72. July/Aug.1950. 50.8 M58
- 40833 PARKER, J. E. Selection and care of hatching eggs. *Eggsaminer* 28(2):2,21,30. Feb.1951. 286.85 Eg32
- 40834 PLATT, F. L. Eastern eggs are meeting stiffer competition. *Everybodys Poultry Mag.* 56(2):11, 28-30. Feb.1951. 47.8 F213P
- 40835 RINEAR, E. H. Training sparks poultry sales. *Butchers' Advocate* 129(11):18-19. Mar.14,1951. 286.85 B97
- 40836 ROTZEL, H. Eight years of poultry publicity. *New Eng. Homestead* 124(3):17,28. Feb.10,1951. 6 N442
- 40837 SCHWARZ, A. Feature the egg in advertising. *Feedstuffs* 23(5):46-47. Feb.3,1951. 286.81 F322
- 40838 SHUTE, H. V. Vermont's approach to better egg quality. *Poultry Indus. [Boston]* 55(2):8-9,30. Feb. 1951. 47.8 N44
- 40839 SNEEK, A. VAN P. TE. The future of the Dutch poultry industry. V-VIII. (In Dutch.) *Pluimveeteelt* 4(1):4;(2):3;(3):14;(4):6. Jan.5-Feb.16,1951. 47.8 P722
- 40840 SNYDER, E. S. How to put "it" into eggs. *Farmer's Advocate & Home Mag.* 86(3393):5,36. Feb.22, 1951. 7 F22  
Quality.
- 40841 STANDARD directory and buyer's guide for the hatchery and poultry supply trade, seventeenth annual edition, 1951. Chicago, Poultry Supply Dealer, 1951. 162 p. 225 St23
- 40842 TEXAS POULTRY IMPROVEMENT ASSOCIATION. Poultry directory, 1951 edition. Stephenville, 1951. 84 p. 225 T317
- 40843 THERE'S a great demand for fancy feathers. *Amer. Egg & Poultry Rev.* 12(2):54,56,58. Feb.1951. 47.8 Am38
- 40844 THOMPSON, L. N. Commercial egg production and marketing on the West Coast. *Nulad News* 28(10):4-6,24-27. Mar.1951. 47.8 N917
- 40845 U. S. BUR. OF AGRICULTURAL ECONOMICS. Monthly egg production, 1949-50. Washington, 1951. 13 p. 1.942 D22M76
- 40846 U. S. BUR. OF AGRICULTURAL ECONOMICS. Young chickens, hens and pullets of laying age and potential layers on farms, 1949-51. Washington, 1951. 4 p. 1.941 H8C432
- 40847 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Utilization of farm crops: eggs(poultry) Hearing; 81st. Cong. 2d. sess., pursuant to S. Res. 36, January 23, 1950. Washington, 1951. 27 p. 284.347 Un3  
Prices.
- 40848 U. S. PRODUCTION AND MARKETING ADMIN. Dressed poultry—total receipts at Atlanta, Ga. for year 1950. Atlanta, 1951. 2 p. 1.956 A2D81  
Also report of receipts at Los Angeles. 1.9422 Po8T64L; at San Francisco. 1.9422 Po8T64S
- 40849 U. S. PRODUCTION AND MARKETING ADMIN. Eggs—total receipts at Atlanta, Ga. for year 1950. Atlanta, 1951. 2 p. 1.956 A2Eg36  
Also report of receipts at Los Angeles. 1.9422 Po8T642L; at San Francisco. 1.9422 Po8T642S
- 40850 U. S. PRODUCTION AND MARKETING ADMIN. Live poultry—total receipts at Atlanta, Ga., for year 1950. Atlanta, 1951. 2 p. 1.956 A2L74
- 40851 USNENSKIY, A. On the production of eviscerated poultry. (In Russian.) *Mfasnafa Indus. SSSR.* 21(4): 65-67. July/Aug.1950. 50.8 M58
- 40852 VICTORIA. EGG AND EGG PULP MARKETING BOARD. The annual report, 1949-50 pool year. *Poultry Farmer [Sydney]* 18(28):18-25. Jan.13,1951. 280.28 Or32
- 40853 WILLIAMS, H. M. Frozen eviscerated fryers—the outlook for 1951. *Quick Frozen Foods* 13(8):96-97, 213-215. Mar.1951. 389.8 Q4
- 40854 WILTZER, A. The 9th World's Poultry Congress. *Poultry Assoc. Gt. Brit. Ybk.* 1951:49-51. 47.9 P864Y



## RUBBER AND RUBBER SUBSTITUTES

- 40855 ALPHEN, J. VAN. Seeking a use for quebra-chitol, a byproduct of natural rubber. (In Dutch.) *Bergcultures* 19:453. Dec.16,1950. 22.5 B45
- 40856 ANTHOINE, R. L'importance croissante du caoutchouc naturel. *Nature* [Paris] 3190:39-42. Feb. 1951. 473 N21
- 40857 BLOW, C. M. Physics and chemistry of raw rubber and rubber derivatives, gutta-percha, balata, chicle and jelutong. *Inst. Rubber Indus. Annu. Rpt. Prog. Rubber Technol.* (1949)13:14-17. Ref. 1950? 305.9 In7A
- 40858 BOONSTRA, B. B. S. T. Simple method for determining the dynamic coefficient of friction of vulcanised rubber. *Inst. Rubber Indus. Trans.* 26:281-287. Dec.1950. 305.9 In7
- 40859 CASSAGNE, P. La thermosensibilité du latex d'hévéa. II. *Rev. Gén. du Caoutchouc* 28:105-107. 1951. 305.8 R32  
English summary, p. 115-116.
- 40860 CHUBB, R. L., TAYLOR, E. C., and FEUSTEL, I. C. Deresination as a means of improving the quality of guayule rubber. I. Shrub deresination. *India Rubber World* 123:557-562,569. Ref. Feb.1951. 305.8 In2
- 40861 DAVIS, C. C. Some of the real pioneers of the rubber industry. *India Rubber World* 123:433-440,449. Ref. Jan.1951. 305.8 In2
- 40862 GORDON-DARNTON, D. J. Bulk latex storage. *India-Rubber J.* 119:1103-1106,1117-1118. Dec.23,1950. 305.8 In21
- 40863 GOWANS, W. J., and CLARK, F. E. Determination of rubber hydrocarbon by an improved bromination method. (Abs.) *India Rubber World* 123:580. Feb.1951. 305.8 In2
- 40864 HERBETTE, F. Le caoutchouc et l'économie de guerre. *Rev. Gén. du Caoutchouc* 28:93-94. 1951. 305.8 R32  
English summary, p. 115.
- 40865 INSTITUTION OF RUBBER INDUSTRY. Annual report of the progress of rubber technology, v. 13, 1949. London,1950? 94 p. 305.9 In7A
- 40866 KOPACZEWSKI, W. Caractères physicochimiques des élastomères de synthèse. *Chim. & Indus.* 65:56-60. Jan.1951. 383 C42
- 40867 KUZ'MINSKII, A. S., SHOKHIN, I. A., and BELITSKAIA, R. M. On the nature of structural changes caused by the action of high temperatures (100-200°) in butadiene rubbers. (In Russian.) *Akad. Nauk SSSR, Dok.* 74:725-727. Ref. Oct.1,1950. 511 P444A
- 40868 LICHTMAN, J. Z., and CHATTEN, C. K. Determination of the physical properties of natural and synthetic rubber materials at low temperatures. (Abs.) *Rubber Age* 34:568. Feb.1951. 305.8 R82  
Also in *India Rubber World* 123:580-581. Feb.1951. 305.8 In2
- 40869 LOCKWOOD, W. S. Meeting the challenge of synthetic rubber. *Planters' Chron.* 45:625-627. Dec.1, 1950. 22 P693
- 40870 MARANELLI, G. Rubber problems. (In Italian.) *Soc. Geog. Ital. B.* (ser.8)3:269-273. Oct.1950. 507 So15B  
English summary.
- 40871 MESSENGER, T. H., and PARRIS, R. W. Synthetic rubber. *Inst. Rubber Indus. Annu. Rpt. Prog. Rubber Technol.* (1949)13:18-28. Ref. 1950? 305.9 In7A
- 40872 MICHAUX, R. M. E. Le rôle des Instituts du Caoutchouc en face de la concurrence caoutchouc naturel-caoutchouc artificiel. *Soc. Belge d'Études et d'Expansion. B. Bimes.* 49:877-880. Nov./Dec.1950. 280.8 So17
- 40873 MULLINS, L. Physical and chemical properties of vulcanised rubber. *Inst. Rubber Indus. Annu. Rpt. Prog. Rubber Technol.* (1949)13:44-48. Ref. 1950? 305.9 In7A
- 40874 NORTHWESTERN UNIVERSITY, EVANSTON, ILL. RADIO DEPT. Natural versus synthetic rubber, by C. S. Marvel, J. P. McKenzie, and H. A. Winkelmann. *Newest. U. Air; Reviewing Stand* 14(19),12 p. 1950. 305 N81
- 40875 PROKOF'EV, A. A., and RIABOV, F. P. On the relationship between size of rubber globules of kok-saghyz latex and their resistance [to coagulation]. (In Russian.) *Akad. Nauk SSSR, Dok.* 75:303-306. Nov.11, 1950. 511 P444A
- 40876 REDFERN, C. F., and MACKIE, M. J. Historical and statistical review. *Inst. Rubber Indus. Annu. Rpt. Prog. Rubber Technol.* (1949)13:1-5. Ref. 1950? 305.9 In7A  
Rubber industry.
- 40877 SCHURER, H. Bicentenary of the discovery of rubber in Europe, 1751-1951. *Res. Assoc. Brit. Rubber Mfr. J. Rubber Res.* 20:9-18. Feb.1951. 305.9 R31
- 40878 SMALL, W. N. Rubber in 1950—year of records and changes. *Foreign Com. Wk.* 42(7):3-4,25-26. Feb.12,1951. 157.54 F763
- 40879 STRAKA, L. E. Advances in the uses of rubber in engineering, 1949-50. *India Rubber World* 123:442-449. Ref. Jan.1951. 305.8 In2
- 40880 ZUEV, I. U. S. Changes in mechanical properties of sodium-butadiene rubber under ozone action. (In Russian.) *Akad. Nauk SSSR, Dok.* 74:967-969. Oct.11, 1950. 511 P444A

## SEEDS

- 40881 AKERMAN, Å. Short description of the organization and activities of the Swedish Seed Association. (In Swedish.) *Sveriges Utsädesför. Tidskr.* 60:427-431. 1950. 61.9 Sv23
- 40882 ANDERSSON, G. Annual meeting of the Swedish Seed Association in Kalmar July 18-19, 1950. (In Swedish.) *Sveriges Utsädesför. Tidskr.* 60:417-426. 1950. 61.9 Sv23
- 40883 BEESON, K. E., and HACKLEMAN, J. C. Seed certification. *West. Feed & Seed* 6(2):21,39,60. Feb.1951. 389.78 W52
- 40884 BELOUSOV, V., and BLIAKHEROVA, R. To fill up the stocks of [grain] seeds and store them properly. (In Russian.) *Kolkhoz. Prolzvodstvo* 10(9):21-22. Sept. 1950. 281.8 K83
- 40885 BRIGGS, G. M. Keep weed seeds out of seed grain. *Hoard's Dairyman* 96:168-169. Feb.25,1951. 44.8 H65
- 40886 CHESHIRE, C. What's wrong with grain cleaning equipment? *West. Canad. Weed Control Conf. Proc.* 3:156-162. Nov.30,1949. 79.9 W522
- 40887 CLARK, B. E., and HEIT, C. E. It's all in the seed; vine [squash and pumpkins] crop [and flower] seed performance. *Farm Res. [N. Y. State Sta.]* 17:12-13. Jan.1951. 100 N48A  
Accuracy of labeling.
- 40888 COSTELLO, D. F. There's money in grass seed. *Colo. Rancher & Farmer* 5(4):1,6. Feb.24,1951. 6 C714
- 40889 EVANS, G. Herbage seed—its production and supply. In *Agricultural Co-operative Association. The farmer in business*, p.37-44. London,1950. 280.2 Ag83F
- 40890 FIRSOVA, M. K. Semennoe zerno (priem i khranenie) [Seed grain (acceptance and storage)]. *Moskva, Gos. Izd-vo Tekhn. i Ekon. Lit-ry po Voprosam Zagotovok*, 1950. 59 p. (Biblioteka Rabotnika Elevatorno-skladskogo Khoziaistva) 61 F51
- 40891 GEISER, D. S. Look out for the traveling seed salesmen. *Iowa Bur. Farmer* 15:8-9. Jan.1951. 275.293 Iowa  
Urges farmers to buy certified seed.
- 40892 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Seed testing for farmers. *Gt. Brit. Min. Agr. & Fisheries. Adv. L.* 247,5 p. Nov.1950. 10 G79La
- 40893 GRØNTVED, P. Use and misuse of experimentation results. (In Danish.) *Dansk Landbr.* 70:20-21. Jan. 11,1951. 280.28 V91  
Includes comments by the editor.  
Advertising and marketing of seeds.
- 40894 HANSEN, N. On seed prices and prospects for the seed crops. (In Danish.) (Excerpts.) *Dansk Frøavl* 34:9-10. Jan.15,1951. 61.8 D23
- 40895 IOWA CROP IMPROVEMENT ASSOCIATION. 1951 certification hand book. Ames,1951. 44 p. 61.9 Io9
- 40896 JACKSON, N. Sorghum seed specialists. *Sowest. Crop & Stock* 5(2):22-23,62. Feb.1951. 6 So8942  
Certified grain sorghum seed in Deaf Smith County, Texas.
- 40897 KOLYSHEV, P. P. Cleaning flax seeds from quarantine weeds. (In Russian.) *Selek. i Semen.* 17(10): 46-48. Oct.1950. 61.9 Se5
- 40898 KURTZ, L. Northern alfalfa seed will be short. *G. L. F. Week. Serv. Sched.* 15(25):3. Dec.18, 1950. 280.28 G113W



- 40899 LODS, E. A. One kind of crop insurance; the use of good seed is one of the best means of insuring a crop. *Macdonald Col. J.* 11(5):2,4-5. Jan.1951. 101 M144
- 40900 MOFFETT, B. W. Slight decline indicated in seed prices. *Farm & Gard. [Watertown]* 1951:1-2. Mar. 3,1951. 6 F234
- 40901 NEDERLANDSE ALGEMEENE KEURINGS-DIENST VOOR GROENTEZADEN. Brief report of the activities of the General Netherlands Inspection Service for Vegetable Seeds during the period October 1948-October 1949. II. (In Dutch.) *Zaadbelangen* 4:485-486. Nov.30,1950. 61.8 Z1
- 40902 NEDERLANDSCHE ALGEMEENE KEURINGS-DIENST VOOR LANDBOUWZADEN EN AARDAPPEL-POOTGOED. 18 jaarverslag 1949-1950 [18th annual report of the General Netherlands Inspection Service for Seeds of Field Crops and for Seed Potatoes for the fiscal year 1949-1950]. Wageningen,1950. 116 p. 12 N284
- 40903 RUDLOFF, C. F. Sortenzulassung - sortenempfehlung. *Saatgut-Wirt.* 2:279-280. (Concl.) Dec.1950. 61.8 Sa1  
Germany.
- 40904 SCHAAL, W. Virginia co-op [Seed Stocks of Virginia] speeds up quality seed. *Crops & Soils* 3(6):18-19. Mar.1951. 6 W55
- 40905 SCHREINER, R. Samenbau als ausgleich für den eingeschränkten feldgemüsebau. *Tech. f. Bauern u. Gärt. Ausg. A* 2:487-488. Sept.10,1950. 58.8 T223
- 40906 ZAKHARENKO, M. A. We shall prepare high-quality and inexpensive seeds of wild fruits. (In Russian.) *Lesn. Khoz.* 3(7):17-20. July 1950. 99.8 L5622
- 40907 ZILLIONS of seeds; once again the venerable Ferry-Morse Co., world's biggest seller of home garden seeds, helps bring a crop of springtime aches and promises to America's back-yard diggers. *Life* 30(14):80-84. Apr.2,1951. 280.8 L62
- SUGAR AND SIRUPS**
- 40908 AHLFELD, H. Betrachtungen zum weltzuckerverbrauch. *F. O. Licht. Internat. Zuckerber. Ber.* 90:7-8. Jan.31,1951. 286.3659 L61
- 40909 AKINDINOV, A. S. On a rational method of crystallization of the second product. (In Russian.) *Sakh. Promysh.* 24(9):21-23. Sept.1950. 65.8 Sa2  
Sugar manufacture.
- 40910 AMERICAN CHEMICAL SOCIETY. DIV. OF SUGAR CHEMISTRY. Purification of sugar juices; a symposium presented at the 117th meeting of the American Chemical Society, Houston, Tex., March 1950. *Indus. & Engin. Chem.* 43:603-638. Mar.1951. 381 J825
- 40911 BARRETT, E. P., BROWN, J. M., and OLECK, S. M. Some granular carbonaceous adsorbents for sugar refining. *Indus. & Engin. Chem.* 43:639-654. Mar.1951. 381 J825
- 40912 BELL, E. V. The batch fermentation process as practised in Great Britain; pure culture yeast seeding method. *Internat. Sugar J.* 52:392-393. Dec.1950. 65.8 In8  
Molasses.
- 40913 BENIN, G. S., and SHNAIDER, E. E. Selection of place for ionization apparatus in the technological system of beet sugar production. (In Russian.) *Sakh. Promysh.* 24(10):14-19. Oct.1950. 65.8 Sa2
- 40914 BERGDOLL, M. S., and HOLMES, E. The heating of sucrose solutions. I. The relationship of 5-(hydroxymethyl)-furfural to color formation. *Food Res.* 16:50-56. Jan./Feb.1951. 389.8 F7322
- 40915 BERNARD, A. L'évolution des moulins à cannes. *Indus. Agr. et Aliment.* 67:561-566. Dec.1950. 383 As7  
English summary.
- 40916 BIRKETT, C. B. Development of new cane in Mauritius results in record sugar production. *Foreign Trade* 9:369-370. Mar.3,1951. 286.8 C162
- 40917 BONNET, E. Situation actuelle de la sucrerie de canne à la Guadeloupe. *Rev. Internat. des Prod. Colon.* 26(256):19-21. Jan.1951. 286.8 R326
- 40918 BRAZIL. INSTITUTO DO ACUCAR E DO ALCOOL. Anuário açucareiro, ano XIV, 1948/49. Rio de Janeiro,1950. 194 p. 281.3659 R47  
Statistical.
- 40919 BROWN, R. J. Nitrogenous compounds in sugar beet juices. *Indus. & Engin. Chem.* 43:610-614. Ref. Mar.1951. 381 J825
- 40920 BUCK, W. R. The sugar industry in Egypt. *Internat. Sugar J.* 52:397-399. (Concl.) Dec.1950. 65.8 In8
- 40921 CHANG, L. T. Sugar liquor defecation with soybean flours. *Indus. & Engin. Chem.* 43:654-659. Mar.1951. 381 J825
- 40922 COSTA FILHO, M. Sugar industry in Brazil. XIII. (In Portuguese.) *Bras. Açucareiro* 36:348-350. Sept.1950. 65.8 B73  
Historical.
- 40923 COTTON, R. H., and others. Semipilot production of sucrose from sorghum. *Indus. & Engin. Chem.* 43:628-635. Ref. Mar.1951. 381 J825  
L. W. Norman, G. Rorabaugh, and H. F. Haney, joint authors.
- 40924 DAHLBERG, H. W., and BENNETT, A. N. Effects of nonsugars on solubility of sucrose in sugar beet sirups. *Indus. & Engin. Chem.* 43:660-662. Mar.1951. 381 J825
- 40925 DIÉGUES JÚNIOR, M. Sugar in the presidential reports of Pernambuco. IV. (In Portuguese.) *Bras. Açucareiro* 36:344-346. Sept.1950. 65.8 B73
- 40926 DOHERTY, W. H. The Government's sugar program—a review and a look ahead. *Sugar* 46(3):28-29. Mar.1951. 65.8 F11
- 40927 EMMERSON, D. W. Alberta—Canada's beet sugar bowl. *Chem. Canada* 3(2):35-37. Feb.1951. 381 C4236
- 40928 EPISHIN, A. S. On development of the [sugar] refining industry. (In Russian.) *Sakh. Promysh.* 24(10):12-14. Oct.1950. 65.8 Sa2
- 40929 EVANS, A. W. Record sugar crop in Puerto Rico brought prosperity in past year. *Foreign Trade* 9:322-324. Feb.24,1951. 286.8 C162
- 40930 FELLER, SH. V. Method for shaking up second molasses. (In Russian.) *Sakh. Promysh.* 24(10):19-24. Oct.1950. 65.8 Sa2
- 40931 FLEURY, F. Quelques conseils aux producteurs de sucre d'érable avant le début de la saison. *Terre de Chez Nous* 23(3):9. Mar.14,1951. 7 T27  
Canada.
- 40932 GERSHGORN, A. D. Process of progressive pre-defecation at Angi-Iul'ski' sugar factory into production of 1949/50. (In Russian.) *Sakh. Promysh.* 24(9):12-15. Sept.1950. 65.8 Sa2
- 40933 GHYSEN, J. J., and SUYKERBUYK, H. P. Determination of water in molasses; dehydration as compared with the Fischer method. *Internat. Sugar J.* 52:390-391. Ref. Dec.1950. 65.8 In8
- 40934 GILLET, E. C., and KENDA, W. Development of the Gillett process of sugar crystallization. *Internat. Sugar J.* 52:394-396. (Concl.) Dec.1950. 65.8 In8
- 40935 GOMES, P. Sugarcane in Brazil. (In Portuguese.) *Bras. Açucareiro* 36:328-332. Sept.1950. 65.8 B73  
The industry.
- 40936 GONZÁLEZ ORAMA, P. Uso de cloro en el molino de caña de azúcar. *Actualidades* 1951:16-19. Jan.1951. 65.9 As52
- 40937 GT. BRIT. COMPTROLLER AND AUDITOR GENERAL. Sugar Industry (Research and Education) Fund, account 1949-50. London,1950. 4 p. 281.3669 G79
- 40938 GUIGNARD, G. La situation sucrière mondiale. *Soc. Belge d'Études et d'Expansion. B. Bimes.* 49:798-801. Nov./Dec.1950. 280.8 So17
- 40939 HAHNE. Warum mehr zuckerrüben anbauen? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:197. Feb. 8,1951. 18 L2346  
Uses.
- 40940 HARLEY, A., and RISDON, E. J. The influence of manganese salts on the curing rate of final massecuite. *Internat. Sugar J.* 53:43. Feb.1951. 65.8 In8
- 40941 HUGOT, E. La sucrerie à la Réunion. *Rev. Internat. des Prod. Colon.* 26(256):17-18. Jan.1951. 286.8 R326
- 40942 INTERNATIONAL SUGAR COUNCIL. Pocket sugar year book 1950. London,1950. 85 p. 286.3659 In8P  
Statistics.
- 40943 IVANOV, S. Z. Founders of the diffusion method [in sugar manufacture]. (In Russian.) *Sakh. Promysh.* 24(10):3-8. Ref. Oct.1950. 65.8 Sa2
- 40944 LACROIX, J. Les problèmes du sucre. Co-opération 21:10-13. (Cont.) Jan.1951. 280.28 C7845  
The industry in France.



- 40945 LAGUARIGUE, L. DE. Le sucre à la Martinique. *Rev. Internatl. des Prod. Colon.* 26(256):7,9,11-12. Jan.1951. 286.8 R326
- 40946 LANG, L. Liquid sugar in the candy plant: advantages, disadvantages evaluated in terms of product quality, costs. *Candy Indus.* 14(4):7,30. Feb.13,1951. 389.8 C168
- 40947 LYLE, O. Chemical process plant; industry's debt to the sugar manufacturers. *Chem. Trade J. & Chem. Engin.* 128:317-318. Feb.9,1951. 382 C422
- 40948 LYLE, P. The sugar industry. *Roy. Statist. Soc. J. Ser. A, Gen.* 113:531-543. Ref. 1950. 251 R81J  
Statistical sources for Great Britain.
- 40949 MCDONALD, E. J. Report on determination of reducing sugars and the influence of overheating on the determination of invert sugar, to the International Commission for Uniform Methods of Sugar Analysis, tenth session, Brussels, August 15-20, 1949 (subject 4). *Assoc. Off. Agr. Chem. J.* 34:200-207. Feb.15,1951. 381 As7
- 40950 MAJOR, J. R. Mill juice chlorination. *Actualidades* 1951:20-26. Jan.1951. 65.9 As52
- 40951 MARTIN, F. L'avenir de la canne à sucre à la Réunion. *Rev. Internatl. des Prod. Colon.* 26(256):13-15. Jan.1951. 286.8 R326
- 40952 MAUDRU, J. E. Ion exchange in beet sugar manufacture. *Indus. & Engin. Chem.* 43:615-618. Mar. 1951. 381 J825
- 40953 MEEKER, E. W. Sugar—it's solubility and accompanying physical effects. *Mfg. Confectioner* 31(2):20-25. Ref. Feb.1951. 389.8 M31
- 40954 MILLER, S. M. The place of sugar in Hawaii's economy. *Plantation Health* 15:23-28. (To be cont.) Jan. 1951. 448.8 P69  
History.
- 40955 MINAEV, B. A. Accurate estimate of amount of feed molasses and other fluids in tanks [of sugar manufacture]. (In Russian.) *Sakh. Promysh.* 24(9):23-26. Sept.1950. 65.8 Sa2
- 40956 NICHOLSON, H. 700,000 tons of sugar. *Farmer & Stock-Breeder* 65:563,565. Feb.20,1951. 10 F228  
Great Britain.
- 40957 O'BRIEN, C. H. The history of the Australian sugar industry. *Austral. Sugar J.* 42:707,709,711,713, 715,717. (To be cont.) Jan.15,1951. 65.8 Au7
- 40958 OWEN, W. L. Development of microorganisms during sugar manufacture. *Indus. & Engin. Chem.* 43:606-609. Ref. Mar.1951. 381 J825  
Sugarcane.
- 40959 OWEN, W. L. Dextran as a sugar industry by-product. III. Its versatility for industrial use. *Sugar* 46(2):40-41. Feb.1951. 65.8 F11
- 40960 PALAMARCHUK, M. M., and PASECHNIK, V. A. Raw material base of the sugar industry in western regions of Ukrainian SSR and prospects for its development. (In Russian.) *Sakh. Promysh.* 24(9):4-6. Sept. 1950. 65.8 Sa2
- 40961 PANICH, A. S. To check the losses of sugar beets during storage. (In Russian.) *Sakh. Promysh.* 24(9):31-32. Sept.1950. 65.8 Sa2
- 40962 PARLOW, R. Neues verfahren zur schaumbe-seitigung und schaumunterdrückung. *Zucker* 3:468-471. Nov.1,1950. 65.8 Z82
- 40963 PELETMINSKIY, V. N. Nomograph for determining the yield of crystallized saccharose and final molasses. (In Russian.) *Sakh. Promysh.* 24(9):35-36. Sept.1950. 65.8 Sa2  
Sugar manufacture.
- 40964 RODRIGUES, J. H. Documents relating to sugar in the colonial historical archives. (In Portuguese.) *Bras. Açucareiro* 36:336-343. Sept.1950. 65.8 B73
- 40965 ROHRLLICH, M., and TÖDT, F. Fruktose aus rohrzucker und melasse. I-V. *Chem.-Ztg.* 74:750-751, 758-762. Ref. Dec.14-21,1950. 384 C427  
English summary.
- 40966 RORABAUGH, G., and MORRIS, V. I. Beet juice defecation. *Indus. & Engin. Chem.* 43:619-624. Ref. Mar.1951. 381 J825
- 40967 SEREBRINSKIY, V. A. Hydromechanization of [sugar] beet unloading from railroad cars. (In Russian.) *Sakh. Promysh.* 24(10):9-12. Oct.1950. 65.8 Sa2  
At sugar factories.
- 40968 SHEARON, W. H., JR., LOUVIERE, W. H., and LAPEROUSE, R. M. Cane sugar refining. *Indus. & Engin. Chem.* 43:552-563. Ref. Mar.1951. 381 J825
- 40969 SILINA, N. P. New method for filter-press liquid waste analysis. (In Russian.) *Sakh. Promysh.* 24(10):27-28. Oct.1950. 65.8 Sa2  
In sugar factories.
- 40970 SNYDER, C. F. Report on refractive indices of solutions of sucrose, dextrose, levulose, raffinose, invert sugar and mixtures, to the International Commission for Uniform Methods of Sugar Analysis, tenth session, Brussels, August 15-20, 1949 (subject 7). *Assoc. Off. Agr. Chem. J.* 34:195-199. Ref. Feb.15,1951. 381 As7
- 40971 SOLLOGUB, A. A. From industrial practices. (In Russian.) *Sakh. Promysh.* 24(9):36-37. Sept.1950. 65.8 Sa2  
Beet chips in sugar manufacture.
- 40972 STARK, J. B., GOODBAN, A. E., and OWENS, H. S. Composition of sugar beet liquors; effect of processing. *Indus. & Engin. Chem.* 43:603-605. Ref. Mar. 1951. 381 J825
- 40973 STASEVSKIY, P. I. On shrinkage losses of sugar beets between storage and factory. (In Russian.) *Sakh. Promysh.* 24(9):32-34. Sept.1950. 65.8 Sa2
- 40974 SYCHEVSKIY, V. F. The struggle with sugar losses—our basic problem. (In Russian.) *Sakh. Promysh.* 24(9):28-30. Sept.1950. 65.8 Sa2  
In the sugar industry.
- 40975 SYMES, E. L. The Amatos continuous fermentation process. *Sugar J.* 13(9):20,26-27. Feb.1951. 65.8 Su391
- 40976 U. S. DEPT. OF LABOR, WAGE AND HOUR AND PUBLIC CONTRACTS DIV. The sugar manufacturing industry in Puerto Rico. Washington, 1950. 6 p. 158.91 Su3
- 40977 VILJANSKIY, I. L., and VARSHAVSKAYA, E. E. Process of evaporation without pause for clarification. (Practice at Dzhambul Sugar Factory). (In Russian.) *Sakh. Promysh.* 24(9):7-12. Sept.1950. 65.8 Sa2
- 40978 WILSON, G. The effect of soil applications of benzene hexachloride on C.C.S. Queensland. *Bur. Sugar Expt. Sta. Cane Growers' Q. B.* 14:73-75. Oct.1,1950. 65.9 Q3C  
Sugar content of cane.
- 40979 ZERBAN, F. W. Report on values of the Clerget Divisor and methods of multiple polarization to the International Commission for Uniform Methods of Sugar Analysis, tenth session, Brussels, August 15-20, 1949 (subject 14). *Assoc. Off. Agr. Chem. J.* 34:180-194. Ref. Feb.15,1951. 381 As7

## TOBACCO

- 40980 BAPST. Der tabakpflanzerverband hat ganze arbeit geleistet! *Bas-Rhin Agr.* 6:76. Feb.17,1951. 14 B29  
Prices.
- 40981 BORBOLLA Y ALCALÁ, J. M. R. DE LA, and CORTES MUÑOZ, V. El método sintético en el estudio químico de la combustibilidad del tabaco. IV. *Ion* 10:655-658. Nov.1950. 385 Io6
- 40982 BRUMBD, D. Um den preis des tabaks der ernte 1950. *Bas-Rhin. Agr.* 6:64. Feb.10,1951. 14 B29
- 40983 CASES, M. T. Local tobacco industry doomed under Bell Mission project. *Agr. & Indus. Life* 13:3. Jan.1951. 25 Ag8  
Philippine Republic.
- 40984 DÖRR, W. The value of starch and sugar in judging the quality of tobacco. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 13:107-113. Feb.1950. 86 N384
- 40985 FERNANDEZ, A. De l'opportunité de créer un centre international de la documentation pour le tabac. *Rev. Internatl. des Tabacs* 26(216):21-22. Jan.1951. 69.8 R324
- 40986 FREY-WYSSLING, A. La modification chimique du tabac au cours du séchage et de la fermentation. *Rev. Internatl. des Tabacs* 26(216):12-13. Jan.1951. 69.8 R324
- 40987 HAVILAND, W. E. Major developments in the marketing of leaf tobacco in Ontario. *Econ. Annal.* 21:6-10. Feb.1951. 281.8 Ec72
- 40988 HEDRICK, W. P. What to expect from tobacco in 1951. *Carolina Farmer* 6(2):9. Feb.1951. 6 C223
- 40989 HUNT, R. Your Burley [Tobacco Growers] Cooperative Association—how it works. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 66(3):10,144. Mar.1951. 6 P945K
- 40990 NEW ZEALAND. TOBACCO BOARD. Fourteenth annual report and statement of accounts for the period 1st August, 1949, to 31st July, 1950. Wellington, 1950. 9 p. 281.3699 N48



40991 PYRIKI, C. Untersuchung von neu angebauten deutschen tabaken. II. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 92:33-39. Jan.1951. 384 Z39

40992 SOUTH CAROLINA. DEPT. OF AGRICULTURE. 1950 South Carolina tobacco report. n.p.,1950. 17 p. 281.3699 So82  
Statistical.

40993 SUPICO, J. L. Le tabac dans les colonies portugaises. Rev. Internat. des Tabacs 26(216):14-16. Jan.1951. 69.8 R324

40994 TENNANT, R. B. The American cigarette industry; a study in economic analysis and public policy. New Haven, Yale U. Press, 1950. 411 p. Ref. (Yale Studies Econ., v. 1) 281.369 T25  
Includes marketing and other aspects of the tobacco industry.

40995 TOBACCO trade year book and diary, 58, 1951. London, 1950. 112 p. 286.89 T554

40996 U.K. TOBACCO statistics. Roy. Statis. Soc. J. Ser. A, Gen. 113:487-508. Ref. 1950. 251 R81J  
Statistical sources.

40997 WALTERS, F. R. What about the tobaccos? Mag. Wall St. 87:562-563,575. Feb.24,1951. 286.8 M27

### MISCELLANEOUS PRODUCTS

40998 BLOOMBERG, R. Fish continuously frozen in towers. Food Indus. 23(3):96-98. Mar.1951. 389.8 F737

40999 CANADA. BUR. OF STATISTICS. AGRICULTURE DIV. CROPS SECT. Fruit and ornamental nursery stock sales, 1950. Ottawa, 1950. 40 p. 253 C1625Fr

41000 COLLINS, B. Better merchandising and better ethics will insure the future of the Gladiolus industry. New Eng. Gladiolus Soc. Gladiolus Mag. 15:9-11. Feb. 1951. 96.43 N44 Suppl

41001 DIECKMANN, F. A. Die gewerbliche verwertung der hagebutte. Nat. u. Nahr. Ausg. B 4:125-126. Nov.1950. 80 N218B

41002 ERNST, J. Hopfen der ernte 1950. Brauwelt 1951:35-38. Jan.18, 1951. 390.8 B732  
Analysis of German hops.

41003 FIEGER, E. A. The refrigeration of Gulf shrimp—cause, prevention of black spot. Quick Frozen Foods 13(8):114-115,160. Mar.1951. 389.8 Q4

41004 FISCHER, C. W., JR., and KELLER, J. R. Stop the rot. Canad. Florist 46(2):8-9. Jan.27,1951. 80 C163

In flower shipments.

41005 HASTINGS, W. H. Methods of measuring the effect of processing on the nutritive value of fish proteins. Food Technol. 5(2):73-75. Ref. Feb.1951. 389.8 F7398

41006 LOENEN, J. VAN. An old-Dutch hopmarket. (In Dutch.) Natl. Gmt. v. Brouwerst. Jaarb. (1951)15: 47-49. 1950. 389.9 N21

41007 LUCA, F. DE. An original display of floral innovations. (In Italian.) Agenzia Romana Note e Inform. Agr. 8:9. Jan.31,1951. 281.8 Ag3

41008 ORBAAN, J. G. Italian flower growing in figures. (In Dutch.) Vakbl. v. de Bloemisterij 6:9. Jan. 12,1951. 80 V22

41009 PERIS PEREZ, P. Holanda en el mercado internacional de flores. Cult. Mod. 33:443-444. Dec.1950. 15 C89

41010 POWELL, L. B. Ban on imports results in thriving West Country industry; home-grown anemones make the grade. Brit. Farmer 32:7. Feb.28,1951. 281.8 B77

41011 WEISHAAR, L. J. Growers: be careful about that contract. Pacific Coast Nurseryman 10:13,31. Jan. 1951. 80 P116

### AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

References on farm structures and rural housing are classified with Agricultural Engineering.

#### GENERAL

41012 ASHBY, A. W. Agricultural economics in India. Fort Bombay, Indian Soc. Agr. Econ., 1950. 13 p. 281.182 As3

41013 AUBERT, C. L'équilibre entre l'industrie et l'agriculture en Suisse. Soc. Belge d'Études et d'Expansion. B. Bimes. 49:862-865. Nov./Dec.1950. 280.8 So17

41014 CALIFORNIA PMA STATE OFF. Annual report, 1949. Berkeley, 1950. 67 p. 1.42 W52An  
Similar report from Oregon.

Statistical report covering State programs, including agricultural conservation, commodity loan and purchase agreement, potato support, sugar beet, and crop insurance.

41015 DIFFIDENTI, E. Denmark in its life and economic, agricultural, and cooperative development. (In Italian.) Cam. di Com. Indus. ed Agr. Macerata. Not. Econ. (n.s.)4(9):7. (Concl.) Sept.1950. 287 M15

41016 EDMONDSON, V. W. An American's impression of Danish agriculture—and what he thinks about it. (In Danish.) Andelsbladet 52:118-120. Feb.1,1951. 280.28 An2

41017 GEDE, T. Economy and foreign trade of Poland. (In Russian.) Vneshn. Torg. 20(11):8-17. Nov. 1950. 286.8 F762

Includes agriculture.

41018 MINDERHOUD, A. P. Observations on the work of the Social-Economic Section of the Wieringermeer Direction (Northeast Polder Works). (In Dutch.) Netherlands. Landvoorrlichtingsdienst. Maandbl. 7:531-537. Dec.1950. 12 N383M

Includes farming types, leases, and labor.

41019 NEW ENGLAND RESEARCH COUNCIL ON MARKETING AND FOOD SUPPLY. New England research news; report on research activities in New England in agricultural economics; nineteenth annual issue, February 1951. Boston, 1951. 33 p. 281.9 N44

41020 PARTAIN, L. E. Agriculture—a business barometer. (Excerpts.) N. J. Banker 21(3):7,20-21. Feb. 1951. 284.8 N46

41021 SAYANA, V. V. Readings in rural problems. Delhi, Chand, 1950. 184 p. 281.182 Sa9  
Economic.

41022 SERRUYS, R. B. L'économie agricole du Congo Belge en 1950. Soc. Belge d'Études et d'Expansion. B. Bimes. 49:766-771. Nov./Dec.1950. 280.8 So17

41023 SHIRIAEV, N. Development of economy and foreign trade of the Chinese People's Republic. (In Russian.) Vneshn. Torg. 20(8):11-18. Aug.1950. 286.8 F762

Includes discussion on agriculture.

41024 SIX-YEAR plan for Pakistan's economic development. Pakistan Econ. J. 2(2):131-144. Dec.1950. 280.8 P174

41025 VALORI, F. Elements of Egyptian economy. (In Italian.) Riv. di Polit. Econ. 40:1331-1334. Dec.1950. 280.8 R52

Includes agricultural economy.

### AGRICULTURAL FINANCE

41026 BELLUCCI, V. Land capital investment in Tuscany. (In Italian.) Riv. di Econ. Agr. 5:238-264. 1950. 281.8 R52

English summary.

41027 BHATTACHARYYA, K. N. Rural savings in India—their nature and problem. Indian J. Com. 3:281-289. Dec.1950. 280.8 In27

41028 BOSE, S. K. Rural savings and investments in India. Indian J. Com. 3:351-360. Dec.1950. 280.8 In27

41029 BUSH, R. Monumental mistakes. Grower [London] 35:77,79,129,131,225,227,229. (Cont.) Jan.13-20, Feb.3,1951. 286.83 M34

Title varies.

Investments.

41030 CHUVIKOV, V. On adjusting the financial economy and accounting system on collective farms. (In Russian.) Sovsk. Sel'sk. Khoz. 21(9):33-42. Sept. 1950. 281.8 So73

41031 JAPAN. DEPT. OF AGRICULTURE AND FORESTRY. INVESTIGATION SECT. Norin gyogyo kinyu no taokusai to sono genjo narabini kankai shiryo [Special nature of finance in agriculture, forestry and fishery and its present status and the related data]. Tokyo?1950. 83 p. 284 J273

41032 PANDYA, P. H. Rural savings and investment in India with special reference to the Kaira District (Botab State). Indian J. Com. 3:361-368. Dec.1950. 280.8 In27

41033 PANTUSHKIN, A. N. The public wealth of Stalin Collective Farm [in Stepanovskii District, Astrakhan Region]. (In Russian.) Sovsk. Zhivotnovod. 12 (11):36-39. Nov.1950. 49 So71



41034 RAO, Y. S., and NARASIMHAM, N. V. A. The problem of rural investment. *Indian J. Com.* 3:309-311. Dec.1950. 280.8 In27

### Credit

41035 AIKINS, C. Credit cooperation. *Co-op Poultryman* 16(3):12-13. Mar.1951. 47.8 C782

41036 BANCO AGRICOLA DE BOLIVIA. Octava memoria correspondiente al año 1949. La Paz, 1950. 65 p. 284.29 B2213

41037 BEERNINK, H. J. Credit in your co-op. *Washcoegg* 28(9):7. Feb.1951. 47.8 W27

41038 CAMPBELL, W. W. Financing the livestock business. *Miss. Banker* 35(9):16,32-34. Feb.1951. 284.8 M69

41039 CRAWFORD, L. A. Financing farmers cooperative associations. *Pear Growers League Annu.* 1950:21, 23,25. 286.3939 P31

41040 DIAZ GALINDO, F. Los inspectores de la Caja Agraria. *Agr. Trop.* 6(2):41-42. Feb.15,1950. 28 Ag8

Caja de Crédito.

41041 FARRINGTON, R. L. Better credit helps co-ops and farmers. *Grain Prod. News* 3(8):19-20. Feb. 1951. 286.81 G764

41042 FLORA, C. M. Bank credit for farm equipment financing. *Miss. Banker* 35(9):20-22. Feb.1951. 284.8 M69

41043 FORD, S. Financing the broiler industry. *Ark. Banker* 34(11):4-7. Feb.1951. 284.8 Ar4

41044 FORD, S. How one bank handles poultry loans. *Banking* 43(9):58,104. Mar.1951. 284.8 Am3

41045 FRANCE. DIRECTION DE LA DOCUMENTATION. Le crédit à l'agriculture dans la France Métropolitaine. France. Dir. de la Doc. Notes et Études Doc. 1418,32 p. Jan.8,1951. 280.9 F843

41046 GRAF, E. D., JR. Financing farm equipment. *Agr. Educ. Mag.* 23:199-200. Mar.1951. 275.8 Ag8

41047 HEIZER, J. M., and HAYWARD, H. C. Membership education pays credit co-ops. *News Farmer Coop.* 17(12):9,21. Mar.1951. 166.2 N47

41048 HOWARD, R. G. Farm credit in a war economy. *Banking* 43(10):56,94-95. Apr.1951. 284.8 Am3

41049 JAMBA, N. A. Dairy cattle loans. *Banking* 43(9):57,100-101. Mar.1951. 284.8 Am3

41050 JENNINGS, F. W. Money for farm improvements. *Farmer & Stock-Breeder* 65 567. Feb.20,1951. 10 F228

Mortgage loans in Great Britain.

41051 KEYSER, J. S. Le système de coopératives de crédit agricole aux Pays-Bas. Soc. Belge d'Études et d'Expansion. B. Bimes. 49:853-856. Nov./Dec.1950. 280.8 Sol7

41052 KRIEGER, K. Ist schuldenfreier grundbesitz in der Schweiz noch möglich? *Agrarpolit. Rev.* 7:201-213. Jan.1951. 281.8 Ag824

41053 LASSETER, D. B. Farm buyers paying off FHA loans ahead of schedule. *Agr. Situation* 35(2):6-7. Feb. 1951. 1 Ec7Ag

41054 LUPPINO, P. Finding the best solution to the problem of agricultural credit. (In Italian.) Agenzia Romana Note e Inform. Agr. 8:1-4. Jan.31,1951. 281.8 Ag3

41055 MENEZES, R. B. DE. Bank reform and co-operation. (In Portuguese.) DEACOOP, Inform. Coop. 2(11):7-11. July 1949. 280.28 D34

Includes rural credit.

41056 NELSON, A. G. Experience of the Federal Land Bank with loans in four north central Iowa Counties, 1917-47. *Iowa State Col. J. Sci.* 25:310-312. Jan.1951. 470 Io9

Abstract of thesis (Ph. D.).

41057 POLLARD, W. B. Financing farm equipment; how a city bank cooperates with a large number of country banks in providing necessary credit. *Burroughs Clearing House* 35(6):25-27,69-72. Mar.1951. 284.8 B94

41058 RAVÁ, M. G. Agricultural credit. II. (In Italian.) *Gior. di Agr.* 61:52. Feb.18,1951. 16 It1G

41059 SCHOR. Neues über die soforthilfeabgabe. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:205. Feb.8, 1951. 18 L2346

41060 SERANDOUR, P. A propos du crédit agricole: pour éviter les injustices. *Monit. Agr.* 4(145):1-2. Jan. 21,1951. 14 M744

France.

41061 U. S. FARM CREDIT ADMIN. Annual report, 1949-50. Washington, 1951. 176 p. 166.2 An7

41062 U. S. FARM CREDIT ADMIN. Loans and dis- counts of lending institutions supervised by Farm Credit Administration; semiannual report. Washington, 1950. 9 p. 166.2 M76

41063 U. S. FARM CREDIT ADMIN. Report to the national farm loan associations, 1949/50. Washington, 1951. 32 p. 1.955 F2R29

41064 U. S. FARMERS HOME ADMIN. Operating loans. Washington, 1950. 5 p. 1.949 Op22

41065 U. S. FARMERS HOME ADMIN. Operating loans for better farming, better living. U. S. D. A. PA- 144,8 p. Nov.1950. 1 Ag84Pro

Supersedes PA-63, of which it is a revision.

41066 WICKARD, C. How REA generation and trans- mission loans help farmers. *Nation's Agr.* 26(3):7-8,11- 13,18. Mar.1951. 280.82 B89

### Income

41067 COX, R. W. Farm income in Minnesota. *Minn. U. Agr. Ext. Farm Business Notes* 328:1-2. Jan.31,1951. 275.29 M663

41068 MCKAY, D. H. Australian farm income. *Aus- tral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 4(1):23-25. Jan. 1951. 281.9 Au73

41069 WALKER, C. R. Income study reveals need for improved farming methods. *Mfr. Rec.* 120(3):37. Mar. 1951. 297.8 M31

Southern States.

### Inflation

41070 BOGER, L. L. The shrinking dollar. *Mich. State Col. Agr. Ext. Mich. Farm Econ.* 97:1-2. Jan.1951. 275.29 M58A

41071 JESNESS, O. B. Inflation! Let's stop it. (Condensed.) *Farm Policy Forum* 4(2):16-20. Feb.1951. 281.8 F2274

### Insurance

41072 ADAIR, S. T. Old age survivors benefits ex- tended to farm workers. *Va. Agr. Col. Ext. Serv. News* 6:2. Jan.1951. 275.29 V81ExT

41073 BAINES, J. Insuring your agricultural machin- ery. *Agr. Mach. J.* 5:35-36. Jan.1951. 58.8 Ag86

41074 FITZSIMMONS, E. J. Social security and the farmer. *Inter-State Milk Prod. Rev.* 31(8):27. Dec.1950. 280.28 In83

41075 KIRCHER, W. H. Reducing the farming gamble; buyers of multiple crop insurance won't make a profit if they lose a crop, but they won't take a big loss either. *Farmer [St. Paul]. Gen. Ed.* 69(6):8,64. Mar.17,1951. 6 F2211

41076 LAYCOCK, G. Crop insurance; the modern farmer has a large investment in his crops and his risk is high. A new plan now offers him crop insurance. *Farm Q.* 6:73-74,100,102,104. Spring 1951. 6 F22995

41077 LEIBFRIED, E. Und nochmals: landwirtschaft- liche berufsgenossenschaft. *Bad. Landwirt. Wchnbl.* 118: 94-95. Feb.17,1951. 18 B142

41078 LEWIS, J. H. Employees who handle machinery must be insured; authoritative review of compulsory in- surance of farm workers under Workmen's Compensation Act and of optional cover for other assistants. *Farmer's Wk. [Bloemfontein]* 80:10-11,13. Jan.3,1951. 24 F225

Union of South Africa.

41079 MILHAU, J. Les calamités agricoles. *Prog. Agr. et Vitic.* 1951:117-119. Mar.4/11,1951. 14 P94

Insurance in France.

41080 NORTH DAKOTA. STATE HAIL INSURANCE DEPT. Thirty-second annual report for the year ending December 31, 1950. Bismarck, 1951. 69 p. 284.69 N814

41081 OLERICH, E. Responsibilities of farm labor employer with regard social security tax. *Iowa State Watersheds B.* 1(10):9. Feb.1951. 290.8 Io9

41082 OTTE, F., JR. Insure your dog—and why; there are many forms and many advantages. *Amer. Ken- nel Gaz.* 68(2):12-13,224-228. Feb.1951. 48.8 Am3

41083 U. S. BUR. OF AGRICULTURAL ECONOMICS. The hired farm working force, 1948 and 1949; with spe- cial reference to coverage of hired farm workers under old-age and survivors insurance, by G. K. Bowles, L. J. Ducoff, and M. J. Hagood. Washington, 1950. 45 p. 1.941 R3H61



41084 U. S. FEDERAL CROP INSURANCE CORPORATION. Loss adjustment manual for multiple crops for 1951 and succeeding crop years. Washington, 1951. 20 p. 1.952 L898

41085 WISER, R. B. They cover the nation. Calif. Farm Bur. Mon. 32(2):7. Feb. 1, 1951. 275.293 California Farm Bureau insurance companies.

#### Taxation

41086 BARTON, W. E. The livestock breeder and the income tax. Breeder-Stockman 12(10):91,93-94,97-98. Mar. 1951. 49 V81

41087 BLANCHER, R. Bénéfices agricoles: procédure d'imposition. Rev. de Lég. Agr. 3:220. (To be cont.) Nov./Dec. 1950. 281.8 R325  
Taxation in France.

41088 BRIZI, A., and PERINI, D. Incidence of taxation on agricultural income. (In Italian.) Riv. di Econ. Agr. 5:265-273. 1950. 281.8 R52  
English summary.  
Italy.

41089 CHILANTI, P. Guida tributaria dell' agricoltore, aggiornata al 15 marzo 1950 [Tax guide for the farmer, revised to March 15, 1950]. Milano, Giuffrè, 1950. 308 p. 284.5 C432

41090 CHILANTI, P. Tax equality explained to farmers. (In Italian.) Terra e Sole 102:37-38. Feb. 1951. 16 T273  
Italy.

41091 GORIN, F. R. Instructions on your Federal income tax. Calif. Vet. 4(3):17. Jan./Feb. 1951. 41.8 C12

41092 HAYGOOD, T. F. Steady rise pushes property tax to head of farmers' list. Agr. Situation 35(2):8-9. Feb. 1951. 1.Ec7Ag

41093 HENNEBACH. Steuerliche Überlegungen an der Jahreswende. Kartoffelwirtschaft 3:509-510. Dec. 29, 1950. 286.83 K14  
Germany.

41094 HORN, E. Hinweise zur einkommensteuer und zur DM-eröffnungsbilanz. Obstbau 69:174. Nov. 1, 1950. 80 Ob73

41095 HOVERLAND, A. A tale of two businesses. Ohio Farm Bur. News 30(7):12-14. Feb. 1951. 6 Oh34  
On the question of income taxes of cooperative organizations.

41096 ICK-HEWINS, S. Taxes on wool proceeds; the Copland proposals. Muster 5:267,269,271,273,275,277-279,281,283-292. Nov. 15, 1950. 45.8 M97  
Australia.

41097 KAPPUS, W. Lastenausgleich und landwirtschaft. Württemb. Wchnbl. f. Landwirt. 118:130. Feb. 17, 1951. 18 W96

41098 KVAAL, C. Taxation of agriculture. (In Norwegian.) Norsk Landbr. 17:23-27. Jan. 19, 1951. 11 N8122

41099 MACKAY, R. L. Capital expenditures. Concluding article in series on income tax procedures as they affect the breeder and farmer; "horse trading" can be an advantage. Thoroughbred Rec. 153(8):15,34. Feb. 24, 1951. 42.8 T39

41100 OGNEV, I. M. They had fulfilled on time the plan for compulsory deliveries [to the State] of livestock products. (In Russian.) Sov. Zhivotnovod. 12(11):91. Nov. 1950. 49 So71  
Taxation in kind.

41101 OTTOSON, C. O. Opinions on income tax declaration. (In Swedish.) Våra Pälldjur 22:39-41. Feb. 1, 1951. 410 V42  
In the fur industry.

41102 SANDIFER, T. N. Many farm tax bills introduced in Congress. Natl. Live Stock Prod. 29(6):10. Mar. 1951. 280.38 N21

41103 SIJTSMA, P. Tax questions. I. (In Dutch.) Friesch Landtbl. 48:51. Jan. 26, 1951. 12 F91

41104 SIJTSMA, P. Tax revision 1950 and agriculture. XIV-XVII. (In Dutch.) Boer en Tuinder 4(205):14; 5(209):6. Dec. 23, 1950, Jan. 20, 1951. 12 B632

41105 SØBY, A. The farmer's income tax declaration. (In Danish.) Dansk Landbr. 70:30-32. Jan. 18, 1951. 280.28 V91

41106 SOHLER, H. Die umsatzsteuer im saatzucht-betrieb. Saatgut-Wirt. 2:282. Dec. 1950. 61.8 Sal  
Germany.

41107 TAYLOR, T. R. A new income tax decision and a review; refunds available from capital gains on sales of breeding stock. West. Live Stock 36(7):23,92-94. Feb. 1951. 49 R523

41108 TIMM, T. General income tax provisions. Sheep & Goat Raiser 31(5):22. Feb. 1951. 45.8 Sh3

#### AGRICULTURAL LABOR AND WAGES

41109 ALEKSANDROV, G., and BEREGOV, L. The brigade of Dar'la Garmash. (In Russian.) Mashinno-Traktornaya Sta. 10(9):12-16. Sept. 1950. 58.8 M11  
Tractor services to collective farms.

41110 ANCIENS ELEVES DE L'ECOLE SUPERIEURE D'AGRICULTURE D'ANGERS. Les carrières agricoles libres; les conditions suivant lesquelles ils peuvent s'orienter et réussir dans ces carrières. Agro d'Angers 29:25-77. Feb. 1951. 105.3 An4

41111 BEAR, E. M. Single apple varieties make a labour problem. Grower [London] 35:122-123,125. Jan. 20, 1951. 286.83 M34

41112 BECKERICH, A. La prime d'ancienneté aux ouvriers agricoles est payable en janvier; comment la calculer? Rustica 24:53. Jan. 21, 1951. 14 R92  
France.

41113 DENMARK. STATISTISKE DEPT. Arbejdsløsheden 1949. Chomage en 1949. København, 1951. 61 p. 257.1 St2M

Table of contents and some tables also in French. Includes farm labor.

41114 ELAGIN, I. More extensive use of supplementary payments in horse breeding. (In Russian.) Konevodstvo 20(9):44-45. Sept. 1950. 42.8 K832

41115 FEDERAL-PROVINCIAL FARM LABOUR CONFERENCE, 1950. Canada. Dept. Labour. Labour Gaz. 51:170-174. Feb. 1951. 283.8 C16L

41116 FIGUEROA ROMAN, M. El colonato en la industria azucarera. Indus. Azucarera 56:574,576-578, 580. Dec. 1950. 65.8 In22  
Argentina.

41117 HATHORN, R. E., and MULLINS, T. Labor and power requirements for pre-harvest operations in rice production. La. Rur. Econ. 13:2-3,5-7. Feb. 1951. 281.8 L93

41118 LAUGHTON, D. B. Venezuelan agriculture suffers from acute labour shortage. Foreign Trade 9:392-395. Mar. 10, 1951. 286.8 C162

41119 LEFÈVRE, A., and MARCELLIN, R. Études d'organisation scientifique du travail en agriculture. Inst. Natl. Agron. Ann. 37:65-90. 1950. 105.3 In8  
In two parts dealing with the planting of beets and mechanical milking in France.

41120 LEWIS, J. C. On migrant labor: good proposals. Calif. Farm Rptr. 12(3):3. Mar. 1951. 281.8 C12

41121 LIAPIN, A. Socialist organization of labor in U.S.S.R. (In Russian.) Voprosy Ekon. 1950(10):84-98. Oct. 1950. 280.8 V89

Includes collective farm labor.

41122 LOUI, D. Are dairy chores your bottleneck? Here are some suggestions to help average farmer cut corners. Prairie Farmer, Ill. Ed. 123(5):1,50-51. Mar. 3, 1951. 6 P883B

Also in Prairie Farmer, Mich. Ed. 123(5):1,50-51. Mar. 3, 1951. 6 P883A

41123 MCCALL, B. Migrants, transients, and travelers. Social Work Ybk. 11:330-336. 1951. 280.9 So123  
Includes migrant agricultural workers.

41124 MCDONALD, G. Farm deferment standards needed. Calif. Farm Rptr. 12(3):2. Mar. 1951. 281.8 C12

41125 MAMAEV, P. Payment of labor on collective farms in accordance with crop estimate. (In Russian.) Sov. Sel'sk. Khoz. 21(9):54-60. Sept. 1950. 281.8 So73

41126 MARSAL, J. Les conventions collectives de travail et les professions agricoles. Motorisation Agr. 5:589-593. Nov. 1950. 58.8 M85  
France.

41127 MOROZOV, D. On increasing the productive capacity of tractor brigade shifts. (In Russian.) Sov. Sel'sk. Khoz. 21(9):48-53. Sept. 1950. 281.8 So73

41128 MÜLLER, L. A. Steigerung der arbeitsproduktivität durch verstärkten hackfruchtba. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:163. Feb. 1, 1951. 18 L2346

41129 OTTOSSON, L. Agriculture in Portugal is well off for labor. (In Swedish.) Lantmannen 34:959-960. Dec. 9, 1950. 11 L234

41130 RUSSELL, J. S. The 1951 farm challenge: make every lick count! Iowa Farm & Home Register 1951:3-H. Mar. 4, 1951. 6 Io94



41131 SAMPLE, G. W. Government manpower policies questioned—farmers need more help. *Hoosier Farmer* 36(2):10-11. Feb.1951. 280.82 H76

41132 SILBERKUHLE-SCHULTE, M. Zur frage der rentabilität der arbeit der bäuerin in hauswirtschaft und landwirtschaft. *Nachr. f. Beratung u. Ausbild. in der Landwirt.* 4:8-10. Jan.1951. 18 N11 Germany.

41133 SOTH, L. America's no. 1 farm problem. *Successful Farming* 49(3):46-47,62-65. Mar.1951. 6 Su12 Shortage of manpower.

41134 WHERRY, J. Work the easy way; you'll live longer, and probably you can accomplish just as much. *Wallaces' Farmer & Iowa Homestead* 76(4):10. Feb.17, 1951. 6 W15

41135 WISCONSIN. GOVERNOR'S COMMISSION ON HUMAN RIGHTS. Migratory agricultural workers in Wisconsin; a problem in human rights. *Madison*, 1950. 48 p. 283 W752

41136 ZASYPKIN, P. A. Feed production brigade on Kallinin Collective Farm. (In Russian.) *Sotsialist. Zhivotnovod.* 12(10):16. Oct.1950. 49 So71

#### AGRICULTURE - SITUATION, POLICIES, AND PROGRAMS

41137 AGRICULTURAL COUNCIL OF CALIFORNIA. Summary of bills pertaining to agriculture as introduced to January 23rd in the 1951 regular session, California Legislature. *Sacramento*, 1951. 106 p. 4 Ag84

41138 ALBERTARIO, P. Regulation of production? (In Italian.) *Glor. di Agr.* 61:17-18. Jan.21,1951. 16 It1G

41139 ALLTON, M. E. On this we stand in 1951; Ohio farmers state their policies. *Ohio Farm Bur. News* 30 (7):7,21. Feb.1951. 6 Oh34

41140 ALVORD, E. D. Rhodesia's agricultural future. *Rhodesian Farmer* 4(16):11. Jan.10,1951. 24 R347

41141 AMMANN, F. Agrarpolitik ist staatspolitik. *Bad. Landwirt. Wchnbl.* 118:6. Jan.6,1951. 18 B142

41142 ARCHIBALD, E. S. Ontario's agriculture. (Excerpts.) *Agr. Inst. Rev.* 5(6):55-56. Nov.1950. 7 Ag8

41143 AROSEMENA H., L. C. Importancia del desarrollo agrícola en la economía nacional. *Rev. de Agr. Com. e Indus. [Panama]* 8(111/112):19-20. Nov./Dec. 1950. 8 R3291 Panama.

41144 ARTAUD. *Merci! Terre d'Oc* 33:52-54. Feb. 1951. 14 Ar5 Agricultural problems.

41145 BANANAL, E. Underscoring productive pursuits. *Agr. & Indus. Life* 13:4,27. Jan.1951. 25 Ag8 Includes agricultural policy for the Philippines.

41146 BARCELO, J. L. Panorama agrícola, hortícola y ganadero de los Países Bajos. *Ceres [Valladolid]* 16(175):9,11. Jan.1,1951. 15 C33

41147 BELGIUM. CHAMBRE DES REPRESENTANTS. Rapport sur l'administration de la colonie du Congo Belge pendant l'année 1949. *Bruxelles*, 1950. 312 p. 280.9 B41

Includes agriculture and forestry.

41148 BERTHAULT. La situation agricole en Afrique du Nord. *Acad. d'Agr. de France. Compt. Rend.* 36:621-625. Nov.15/22,1950. 14 P215Bc Includes discussion.

41149 BLONDELLE, R. Tournant! *Bas-Rhin. Agr.* 6:49-50. Feb.3,1951. 14 B29

41150 BONAZZI, A. Cinco agrónomos latinos. *Agro [El Valle]* 5(14):29-25. Sept./Oct.1950. 9.95 Ag83 Ancient Roman writers on agriculture.

41151 BONOMI, P. The interests of Italian agriculture within the framework of European economic cooperation. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 6:1-4. Jan.24,1951. 281.8 Ag3

41152 BONOMI, P. The National Congress of Direct Cultivators traces the outlines of an effective agricultural policy. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 16:1-2. Mar.6,1951. 281.8 Ag3

41153 BREART, G. L'organisation de l'agriculture européenne: des sacrifices à consentir, des avantages à partager. *J. de la France Agr.* 7:1325,1327. Jan.19/25, 1951. 14 J829

41154 BRISEBOIS, D. L'agriculture américaine. *Soc. d'Hort. de la Haute-Garonne. Ann. (ser.5)* 16:208-211. Oct./Dec.1950. 86 So194

41155 BUHLE. Was erwarten wir von dem agrarprogramm der Bundesregierung? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:235-236. Feb.15,1951. 18 L2346

41156 BUTZ, E. L. Agriculture's job in this emergency. *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1951:1-2,7. Jan.26,1951. 275.29 In2Em

41157 CACERES D., F. Problemas yungueños. III. *Campo [La Paz]* 4(44):19,21,23. Dec.1950. 9.1 C15

41158 CALLAGHAN, A. R. South Australia's agricultural industries; developments in 1950. *So. Austral. Dept. Agr. J.* 54:167-179. Nov.1950. 23 So84

41159 CALZECCHI-ONESTI, A. Civility of free men. (In Italian.) *Italia Agr.* 88:3-5. Jan.1951. 16 It1 The international situation in relation to agriculture.

41160 CAMBRIDGE UNIVERSITY. SCHOOL OF AGRICULTURE. A summary of the papers published by the members of the staff of the School of Agriculture and its associated research organisations during the period Oct. 1st, 1949-Sept. 30th, 1950. *Cambridge U. Sch. Agr. Mem.* 22,24 p. Feb.1951. 103 C14M

41161 CARIBBEAN COMMISSION. CENTRAL SECRETARIAT. West Indian conference, fourth session, 1950. *Port-of-Spain*, 1951. 110 p. 280.9 An42 Agricultural.

41162 CAROLIS, V. DE. Today better? (In Italian.) *Glor. di Agr.* 61:33. Feb.4,1951. 16 It1G Italian agricultural problems.

41163 CARVELL, J. E. M. Ecuador; economic and commercial conditions in Ecuador. *London, Board of Trade*, 1950. (Overseas Economic Surveys.) 47 p. 255.5 G792 Includes agriculture.

41164 CÉPEDE, M. L'agriculture française dans l'économie nationale et européenne. *Soc. Belge d'Études et d'Expansion. B. Bimes.* 49:785-788. Nov./Dec.1950. 280.8 So17

41165 CÉPEDE, M. La situation mondiale de l'alimentation et de l'agriculture 1949-1950. *Perspectives* 1950-1951. *Acad. d'Agr. de France. Compt. Rend.* 36:671-674. Nov.29/Dec.6,1950. 14 P215Bc

41166 CHAMBER OF COMMERCE OF THE UNITED STATES OF AMERICA. COMMITTEE ON ECONOMIC POLICY. The welfare state and the state of human welfare. *Washington*, 1950. 60 p. 280.12 C3526W Includes agricultural programs.

41167 CHAPMAN, P. W. *Fabulous Florida*. Prog. Farmer, Tex. Ed. 66(3):70,72,74. Mar.1951. 6 T311 Includes Florida's agriculture.

41168 CLAVE, H. Impressions de voyage d'un agriculteur traversant la France de la Rochelle à Nice. *Rustica* 24:68-69. Jan.28,1951. 14 R92

41169 COLLINS, L. E. A disastrous year. *Farming Gloucestershire* 9:77,79. 1950. 10 F2291 The agricultural situation in Gloucestershire.

41170 CONGRÈS DES INGÉNIEURS COLONIAUX. Résumé des mémoires communiqués à la Commission de l'Agriculture du Congrès des Ingénieurs Coloniaux tenu à Paris du 1<sup>er</sup> au 9 octobre 1949. *Agron. Trop.* 6:79-82. (Concl.) Jan./Feb.1951. 26 Ag86

41171 CONSEJO DE BIENESTAR RURAL. Annual report, 1948/50. *Caracas*, 1950. 60 p. 281.29 C765

41172 CORFIELD, F. V. County committees are the greatest single overhead carried by the industry; can we afford the A. E. C.s? *Farmer & Stock-Breeder* 65:483. Feb.13,1951. 10 F228

On the cost to the British Government for much non-productive work on farms.

41173 CROUSE, E. F. Accent on production. *Breeder's Gaz.* 116(4):5,37-39. Apr.1951. 49 B74

41174 CUSHMAN, MRS. R. What Europe needs most—stability. *Hoosier Farmer* 36(2):5,11,41-42,47. (To be cont.) Feb.1951. 280.82 H76 Includes agriculture.

41175 DEMOLON, A. Notes sur l'agriculture libanaise. *Acad. d'Agr. de France. Compt. Rend.* 36:600-602. Oct.25/Nov.8,1950. 14 P215Bc

41176 DEUTSCHER RAIFFEISENVERBAND. *Jahrbuch*, II. Jahrgang 1949. *Bonn*, 1950. 103 p. 284.29 D484 Includes report of agriculture.

41177 DONIA, J. The development of agriculture in Drenthe. (In Dutch.) *Drents Landtbl.* 32(3):2. Jan.20, 1951. 12 D812

41178 DONIA, J. Drenthe is booked up. (In Dutch.) *Landbode* 5(4):1. Jan.27,1951. 12 L234 Land availability and productive capacity.



- 41179 DOWNING, D. Trend of Sask. agriculture. Co-op. Consum. [Saskatoon] 12(8):2. Oct.13,1950. 280.28 C7839
- 41180 DROGUE, A. L'agriculture en A. E. F.; les objectifs de la production agricole. Marchés Colon. 7: 107-112. Jan.13,1951. 286.8 M33
- 41181 EAST PUNJAB. PUBLIC RELATIONS DIRECTORATE. PUBLICITY DEPT. Punjab plans for plenty. Simla,1950. 32 p. 281.182 Ea72  
Agricultural.
- 41182 ECUADOR. INSTITUTO DE FOMENTO DE LA PRODUCCION. Informe al H. Congreso Nacional 1950. Quito,1950. 75 p. 280.9 Ec95  
Includes agricultural policy.
- 41183 EVANS, A. W. Cuba maintained high level of agricultural output last year. Foreign Trade 9:282-284. Feb.17,1951. 286.8 C162
- 41184 FATHERREE, A. P. A record year of achievement. Prog. Farmer, Miss.-Ark.-La. Ed. 66(3):18. Mar. 1951. 6 So81  
Agricultural production in Mississippi.
- 41185 FINCKENSTEIN, H. W. Entwicklungstendenzen der weltagrarwirtschaft. Schweiz. Z. f. Volkswirt. u. Statis. 36:527-538. Dec.1950. 280.8 Z3
- 41186 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. AUSTRALIAN NATIONAL COMMITTEE. Australia; annual report to the Food and Agriculture Organisation of the United Nations. n.p.,1950. 67 p. 389.9 F7353Au
- 41187 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. NATIONAL FAO COMMITTEE OF FINLAND. Report to the Food and Agriculture Organization of the United Nations. Helsingfors,1950. 63 p. 389.9 F738
- 41188 FRANCE. COMITÉ INTERMINISTÉRIEL DE L'ALIMENTATION ET DE L'AGRICULTURE. Rapport annuel sur l'état de l'alimentation et de l'agriculture en 1949-1950. France. Min. de l'Agr. Rev. Études & Monog. 1950:257-273,275-344. Dec.1950. 281.8 F84
- 41189 FRANCE. DIRECTION DE LA DOCUMENTATION. L'Afrique Occidentale Britannique. France. Dir. de la Doc. Notes et Études Doc. 1428,36 p. Jan.30,1951. 280.9 F843  
Includes agriculture.
- 41190 FRANCE. DIRECTION DE LA DOCUMENTATION. L'Afrique orientale britannique. 2. Tanganyika. France. Dir. de la Doc. Notes et Études Doc. 1424,26 p. Jan.22,1951. 280.9 F843  
Includes agriculture.
- 41191 FRANCE. DIRECTION DE LA DOCUMENTATION. L'économie égyptienne. France. Dir. de la Doc. Notes et Études Doc. 1415,32 p. Dec.29,1950. 280.9 F843  
Includes agriculture.
- 41192 FRANCE. DIRECTION DE LA DOCUMENTATION. Les Indes Occidentales et les possessions britanniques de l'Atlantique-Sud. France. Dir. de la Doc. Notes et Études Doc. 1430,55 p. Feb.2,1951. 280.9 F843  
Includes agriculture.
- 41193 FRANCE. INSTITUT NATIONAL DE LA STATISTIQUE ET DES ÉTUDES ÉCONOMIQUES. L'agriculture hongroise. France. Inst. Natl. de la Statis. et des Études Econ. Études et Conjoncture. Econ. Mond. 5(6):56-84. Nov./Dec.1950. 280.9 F842
- 41194 FRIETEMA, H. J. The question of European economic integration and agriculture. (In Dutch.) Economist [Haarlem] 98:827-847. Dec.1950. 280.8 Ec792
- 41195 GARST, R. The surplus is gone; the agricultural prospect before us is one of enormous production to satisfy the insistent demands of a rapidly growing population. Farm Q. 6:32-34,129-133. Spring 1951. 6 F22995
- 41196 GENOUD, J. El trabajo agrario constituye hoy una aspiración fecunda del esfuerzo humano. Agrario 15(418):13. Nov.1950. 9.3 Ag85  
Chile.
- 41197 GT. BRIT. COLONIAL OFF. Development and welfare in the West Indies, 1947-49, by Sir H. Rance. London, Colon. Off.,1950. (Colon. No.264.) 152 p. 280.9 G7932  
Includes agriculture.
- 41198 GREVE S., G. Alessandri y la agricultura. Agr. Austral 18:437-439. Oct.1950. 9.3 Ag842  
Chile.
- 41199 GRUYTER, P. DE. An outline of the Rijnland's polder basin administration. (In Dutch.) Landbk. Tijdschr. 62:960-970. Dec.1950. 105.2 Or3  
Agriculture.
- 41200 HALCROW, H. G., and JOHNSON, S. What does rearmament mean to Connecticut farmers? Conn. Farmer 5(9):3,11. Feb.1951. 6 C763
- 41201 HANSON, S. G. Economic development in Latin America. Washington, Inter-Amer. Aff. Press,1951. 531 p. 280.16 H192  
Includes agricultural policy.
- 41202 HEIDENHEIMER, A. J. Plowing Brannan under. New Repub. 124(13):11-12. Mar.26,1951. 280.8 N42
- 41203 HENRY, F. The natural resources of America. (In Italian.) Cron. Econ. 94:9-10. Nov.30,1950. 280.8 C882  
Includes agriculture.
- 41204 HOFFMANN, E., and BITTERMANN, E. Die leistungssteigerung der deutschen landwirtschaft. Umschau 51:33-34. Jan.15,1951. 474 Um7
- 41205 HOLTON, D. M. Greek agricultural production almost equals prewar level. Foreign Trade 9:360-364. Mar.3,1951. 286.8 C162
- 41206 HOPPER, W. C. Just how important is agriculture anyway? Agr. Inst. Rev. 5(6):15-17,19-20,23-25. Nov.1950. 7 Ag8
- 41207 HOPPER, W. C. United States crop production was third highest on record. Foreign Trade 9:386-387. Mar.10,1951. 286.8 C162  
Situation and outlook.
- 41208 ILLANES ABBOTT, E. Habla sobre política agrícola y ganadera. Agrario 15(417):4-5. Oct.1950. 9.3 Ag85  
Chile.
- 41209 INDIA and the world and India in 1950. East. Econ. 15(25):934-1075. Dec.29,1950. 280.8 Ea72  
Includes agriculture.
- 41210 INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT. Bases de un programa de fomento para Colombia. 2. Banco de la Repub. Rev. 23: 1256-1262. Dec.20,1950. 284.9 C713  
Report of a mission directed by L. Currie, in cooperation with the Colombian Government.  
Includes agriculture.
- 41211 JAPAN. ECONOMIC STABILIZATION BOARD. 1950 annual report for Japan to Food and Agriculture Organization of the United Nations (fourth annual report). Tokyo?1950. 117 p. 389.9 Su74
- 41212 JAUME, J. Del agro mallorquín. Cult. Mod. 33:447-448. Dec.1950. 15 C89  
Agricultural.
- 41213 JESNESS, O. B. What we want from a farm program. Kans. State Bd. Agr. Rpt. 69(296):28-36. Apr. 1950. 2 K13Re
- 41214 JOHANSSON, R. Agriculture in 1950. (In Swedish.) (Excerpts.) Lantmannen 35:3-4,20. Jan.6,1951. 11 L234
- 41215 JOHNSON, O. R. Our United States—Missouri. Ariz. Cattlelog 6(5):54-58. Jan.1951. 43.8 Ar42  
Includes agriculture.
- 41216 KALLBRUNNER, H. Die Vereinigten Staaten von Europa und die österreichische landwirtschaft. Pflug 4:3-4. Jan.1951. 19 P48
- 41217 KANSAS agricultural convention, 1950. Kans. State Bd. Agr. Rpt. 69(296),84 p. 1950. 2 K13Re
- 41218 KENTUCKY. UNIVERSITY. COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. The agricultural outlook for Kentucky, 1951. Lexington,1951. 9 p. 275.29 K415A
- 41219 KIRCHER, W. H. Defense—you, yours, and your farm. Farmer [St. Paul], Gen. Ed. 69(3):1,28. Feb. 3,1951. 6 F2211
- 41220 KLOMPE, G. J. Plan of Danish agricultural organization; a lesson for us. (In Dutch.) Landbode 5(3): 11. Jan.20,1951. 12 L234
- 41221 KNAUS, K. Agriculture and Pakistan economic development. Pakistan Econ. J. 2(2):115-120. Dec.1950. 280.8 P174
- 41222 KÜBEL, F. Rückblick und vorschau. Deut. Landwirt. Presse 74:2. Jan.6,1951. 18 D482  
Agriculture.
- 41223 KUÍBYSHEV, A. Economic development of Mongolian People's Republic. (In Russian.) Vnesn. Torg. 20(11):37-42. Nov.1950. 286.8 F762  
Includes agriculture.
- 41224 LANGDON GONZÁLEZ, T. Nuestras más fundamentales aspiraciones se reducen a contar con créditos que sirvan al fomento agrícola. Agrario 15(418):52, 54,58. Nov.1950. 9.3 Ag85  
Agricultural policy for Chile.



- 41225 LEET, G. They did not wait for a tractor; how Greek peasants and villagers are creating new prosperity and hope in communities which have seen little change since Homer's day. *Survey* 87:101-105. Mar.1951. 280.8 C37
- 41226 LEIBFRIED, E. Kriegspflanzversorgung und Landwirtschaft. *Bad. Landwirt. Wchnbl.* 118:50-51. Jan. 27, 1951. 18 B142
- 41227 LHUILLIER, J. La nécessité de la recherche et de l'expérimentation dans l'organisation agricole de l'A.E.F. *Marchés Colon.* 7:87-89. Jan.13, 1951. 286.8 M33
- 41228 LOSCHKE, J. Dürfte es überhaupt soweit kommen? Oldenburger Landvolk 1951(1):3-4. In *Landwirtsbl. Weser-Ems* 98(2). Jan.11, 1951. 18 L2345  
Various aspects of agriculture.
- 41229 LOUWES, H. D. Objectives of Dutch agricultural policy. (In Dutch.) *Landbk. Tijdschr.* 63:9-12. Jan. 1951. 105.2 Or3
- 41230 LUCHINI, R. The South of Mendoza and its agriculture. (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 44:229-264. Oct./Dec.1950. 26 Ag82  
English summary.
- 41231 MCCORMICK, C. J. The Nation is counting on you. Washington, U. S. D. A., Off. Sec., 1951. 13 p. 1.91 A2M132  
Talk at State PMA meeting, Mandan, N. Dak., Feb. 7, 1951.  
Work of county committeemen in administering national farm programs.
- 41232 MCCOY, H. B. The defense production program. *South. Dairy Prod. J.* 49(2):42,70-72,74. Feb. 1951. 44.8 So83  
Effects on agriculture.
- 41233 MANETTI, C. Justice for the South [Italy]. I-II. (In Italian.) *Mezzogiorno Agr.* 6(50):3;(51):3. Dec.23/30, 1950-Dec.31, 1950/Jan.6, 1951. 16 M57
- 41234 MARIS, A. The need for industrialization and emigration in Dutch agriculture. (In Dutch.) *Landbk. Tijdschr.* 63:43-55. Jan.1951. 105.2 Or3
- 41235 MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Maryland agricultural outlook for 1951; demand, supply, prices. *Md. Agr. Col. Ext. Misc. Ext. P.* 2,47 p. Feb.1951. 275.29 M36M15
- 41236 MATTHEW, A. V. Agricultural efficiency. *Planters' Chron.* 45:654-655. Dec.15, 1950. 22 P693  
Indian productive capacity.
- 41237 MINDERHOUD, G. Management economic aspects of the agricultural policy. (In Dutch.) *Landbk. Tijdschr.* 63:34-42. Jan.1951. 105.2 Or3
- 41238 MOFFETT, B. W. 1951 is expected to be fair year to farm. *Farm & Gard. [Watertown]* 1950:1,3. Dec. 30, 1950. 6 F234
- 41239 MOLLER BORDEU, F. Aumentar producción es la mejor fórmula para detener la inflación. *Agrario* 15 (418):73-74,80. Nov.1950. 9.3 Ag85  
Chile.
- 41240 MONT'ALEGRE, O. Minas Gerais: a Government program in the service of the economy. (In Portuguese.) *Observador Econ. e Financ.* 15(179):50-151. Ref. Dec.1950. 280.8 Ob72  
Includes agriculture.
- 41241 MUNSHI, K. M. Agriculture in India. *India News* 3(4):17. Jan.26, 1951. 280.8 In253
- 41242 MYERS, W. I. What's ahead for agriculture and farmer cooperatives. *Metrop. Milk Prod. News* 11 (2/3):2,25-26. Feb./Mar.1951. 280.28 M56  
Similar title in *Better Farms* 10(3):9,15. Feb.1951. 6 B462
- 41243 NATIONAL FARM RADIO FORUM. Should agricultural production be controlled? *Farm Forum Guide* 8(10):1-3. Feb.5, 1951. 281.8 F2272  
Canada.
- 41244 NOURSE, E. G. Business outlook in a defense economy. *Mich. Milk Messenger* 32(10):3. Feb.1951. 44.8 M562  
Relation to agriculture.
- 41245 ORLANDO, G. Notes on the method of computation of gross saleable output. (In Italian.) *Riv. di Econ. Agr.* 5:187-237. 1950. 281.8 R52  
English summary.
- 41246 OSSA, R. Quienes labran la tierra necesitan seguridad para proseguir sus labores. *Agrario* 15(418):24. Nov.1950. 9.3 Ag85  
Policy for improving the position of farmers in Chile.
- 41247 OVERBY, E. J. Defense situation and agriculture. Washington, U. S. D. A., Off. Sec., 1951. 13 p. 1.91 A2Ov22  
Talk before Northern Great Plains Council, Lincoln, Mar. 21, 1951.
- 41248 PATIÑO LÓPEZ DE AYALA, P. La labranza en los sellos de correos. *Ganadería [Madrid]* 8:639. Oct.1950. 49 G15
- 41249 PATRONS OF HUSBANDRY. NATIONAL GRANGE. Summary of national legislative policies and programs for 1951. Washington, 1950. 27 p. 4 P272L
- 41250 PETERSEN-DALUM, J. Agriculture in 1950. (In Danish.) (Excerpts.) *Dansk Landbr.* 70:18-20. Jan. 11, 1951. 280.28 V91
- 41251 PICARD, A. J. Bilan 1950 et perspectives 1951. *Agr. Charentais* 6:1-2. Dec.31, 1950/Jan.15, 1951. 14 Ag825
- 41252 PRANGEN, H. Bauerntum in Ost und West. *Landwirtsbl. Weser-Ems* 1951:11. Jan.4, 1951. 18 L2345  
Europe.
- 41253 RAWLINGS, B. R. Farmers regain the initiative. *Fed. Reserve Bank Atlanta. Mon. Rev.* 36:11-12. Jan.31, 1951. 284.8 F31A  
Agricultural situation and outlook in the Sixth District States.
- 41254 REED, H. J. Farmers must be prepared for long production fight. *Hoosier Farmer* 36(3):13,45. Mar. 1951. 280.82 H76
- 41255 ROBINSON, A. J. The Colombo plan; technical assistance to under-developed countries. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 4(1):7-10. Jan.1951. 281.9 Au73  
Agricultural.
- 41256 ROSA, M. F. Panorama of Angola. (In Portuguese.) *Portugal. Agência Geral das Colón. B. Geral das Colón.* 26(308):9-47. Feb.1951. 264 Ag3  
Includes agriculture.
- 41257 ROSSIN. Les problèmes de la production agricole en Afrique. *Nouvelle Rev. Franc. d'Outre-Mer* (n.s.) 43:26-27. Feb.1951. 280.8 B873  
French and British programs.
- 41258 ROTHENBURG, G. Die agrarpolitik der Sowjetunion im Jahre 1950. *Wirtschaftsdienst* 31:51-53. Jan. 1951. 280.8 W74
- 41259 SCHILL, L. Unsere arbeit im Jahre 1950! *Bauern Ztg.* 3:628-629. Dec.22, 1950. 18 B324  
Germany.
- 41260 SCHILL, L. "Die wahrheit wird euch frei machen!" Gedanken zu unserer agrar- und standespolitik im neuen Jahre. *Bauern Ztg.* 4:1-3. Jan.5, 1951. 18 B324  
Germany.
- 41261 SCHWEIZERISCHER BAUERNVERBAND. PREISBERICHTSTELLE. Die schweizerische landwirtschaft im Jahre 1950. *Schweiz. Zentbl. f. Milchwirt.* 40:1. (To be cont.) Jan.5, 1951. 44.8 Sch93
- 41262 SEEGER, S. Haiti writes a new chapter. *Américas* 3(2):3-6,30-31. Feb.1951. 150.9 Am34  
Agricultural program under SCISP (Service Coopératif Inter-Américain de Santé Publique) and SCIPA (Service Coopératif Inter-Américain de Production Agricole).
- 41263 SELLSCHOPP, A. Wir haben noch eine chance. *Deut. Landwirt. Presse* 74:1. Jan.6, 1951. 18 D482  
Agricultural policy.
- 41264 SERGEEV, I., and KUIBYSHEV, A. Successes of the national economy of Rumania. (In Russian.) *Vnesn. Torg.* 20(8):19-25. Aug.1950. 286.8 F762  
Includes agriculture.
- 41265 SINEWS of war—the farm outlook. *Newsweek* 37(10):74-75. Mar.5, 1951. 280.8 N47
- 41266 SOBOLEV, K. Hungarian People's Republic on a high level. (In Russian.) *Vnesn. Torg.* 20(11):29-36. Nov.1950. 286.8 F762  
Includes agriculture.
- 41267 SOUTH CAROLINA. CLEMSON AGRICULTURAL COLLEGE, EXTENSION SERV. The agricultural outlook, South Carolina, 1951. *Clemson Agr. Col. S. C. Ext. C.* 357,15 p. Dec.1950. 275.29 So8E
- 41268 SOUTHERN RHODESIA. SECRETARY FOR NATIVE AFFAIRS. Report for the year 1949. Bulawayo, 1950. 98 p. 280.9 R343  
Includes reports on agriculture.
- 41269 STALLINGA, G. Aspects of American agriculture. (In Dutch.) *Friesch Landtbl.* 48:56-57. (To be cont.) Jan.26, 1951. 12 F91



41270 STAPLEDON, SIR R. G. The agricultural situation. In Stapledon, Sir R. G., ed. Farming and mechanised agriculture, ed. 4, p.25-58. London, 1950. 10 F2227

Great Britain.

41271 STAPLEDON, SIR R. G., ed. Farming and mechanised agriculture. Ed. 4. London, Todd Ref. Books, 1950. 407 p. Ref. 10 F2227

Includes directories of Government agencies and agricultural organizations, as well as statistics.

41272 STREICHER, E. Volk an den pflug. Bad. Landwirts. Wchnbl. 118:1-2. Jan.6, 1951. 18 B142

Agriculture.

41273 SUPREME COMMANDER FOR THE ALLIED POWERS. NATURAL RESOURCES SECT. Mission and accomplishments of the occupation in the natural resources field. n.p., 1950. 43 p. 280.183 Su7M

Includes agriculture in Japan.

41274 SYMONS, T. B. Brief impressions of England and Germany. Breeder-Stockman 12(10):87-88. Mar. 1951. 49 V81

Agriculture and economic conditions.

41275 TANGANYIKA. Annual reports of the provincial commissioners for the year 1949. Dar es Salaam, 1950. 170 p. 280.9 T15

Includes agriculture.

41276 TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. A look ahead for Texas rural families, 1951. Tex. Agr. Col. Ext. L. 111, 12 p.-folder. 1950? 275.29 T313

41277 TRIGG, R. S. Agriculture in the defense effort. Natl. Canners Assoc. Inform. Let. 1325:73-74. Feb.28, 1951. 389.9 N214In

41278 VISOCHI, V. La colaboración económica de los estados europeos y las consecuencias que habrán de derivarse a la agricultura en la proyectada creación de los Estados Unidos de Europa. Cooperación [Madrid] 105:20-23. Nov. 1950. 280.28 C7875

41279 WAGNER, M. W. Von der amerikanischen agrarpolitik. Agrarpolitik. Rev. 7:213-216. Jan. 1951. 281.8 Ag824

41280 WATERSCHOUT, P. J. The significance of the shortening of the Netherlands coast for agriculture. (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Maandbl. 7:518-524. Dec. 1950. 12 N383M

41281 WILLIAMS, I. Agricultural legislation and policy. In Stapledon, Sir R. G., ed. Farming and mechanised agriculture, ed. 4, p.59-82. London, 1950. 10 F2227

Great Britain.

41282 WRIGHT, W. J. Agriculture in the Lothians and Borders of Scotland. Brit. Agr. B. 3:205-211. 1950/51. 10 B776

41283 ZUUR, A. J. Agricultural outlook for the East Polder. (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Maandbl. 7:538-542. Dec. 1950. 12 N383M

#### Subsidies

41284 CAMPBELL, K. O. Economic aspects of agricultural stabilisation schemes. Austral. Inst. Agr. Sci. J. 16:144-153. Dec. 1950. 23 Au74

Subsidies and price control

41285 PINSON, J. Comment peuvent jouer, dans les campagnes, les nouvelles primes à la construction? Agr. Prat. 115:15-18. Jan. 1951. 14 J82

France.

41286 U. S. PRODUCTION AND MARKETING ADMIN. Consumer food subsidy programs in World War II. Washington, 1951. 9 p. 1.956 A2C765

41287 YOUNG, H. P. Farm price subsidies and the Brannan plan. Metrop. Milk Prod. News 11 (2/3):10-11. Feb./Mar. 1951. 280.28 M56

#### COST AND STANDARD OF LIVING

41288 TELANG, M. A. Cost of living index numbers of rural population in the districts of Belgaum and Ratnagiri. Bombay. Bur. Econ. & Statis. B. 4:10-18. July 1950. 269.54 Ec7.

#### FARM MANAGEMENT AND LAND ECONOMICS

41289 ANDERSON, C. Legal elements of surveying in the establishment of land boundaries. Surveying & Mapping 11:40-45. Jan./Mar. 1951. 325.8 Am3

Public land.

41290 BADIR'IAN, G. Machine-tractor stations and development of collective farm production. (In Russian.) Sovskiz. Sel'sk. Khoz. 21(9):43-47. Sept. 1950. 281.8 So73

41291 BANNIKOV, N. A. Enlarged Novyi Put' Collective Farm [in Molotov Region]. (In Russian.) Sad i Ogorod 1950(11):46-49. Nov. 1950. 80 Sa13

41292 BARKER, E. Farming in the Austrian Tyrol. Farmers Wk. [London] 34(7):62-63, 68. Feb. 16, 1951. 10 F2226

41293 BETTENCOURT, A. Va-t-on supprimer le métayage? J. de la France Agr. 6:1241, 1243. Dec. 1/7, 1950. 14 J829

41294 BITTLER'S Schuylkill County, Pennsylvania, farm directory, 1951. Allentown, 1951. 64 p. 225 Sch8

41295 BLANCO, G. From hoe to tractor. Américas 3(3):13-16. Mar. 1951. 150.9 Am34

Problems in the application of scientific methods to Latin American agriculture.

41296 BRAMLEY, W. A potential summer-cereal granary; distribution of rainfall and absence of frost makes assured crops possible in Bechuanaland. Farmer's Wk. [Bloemfontein] 80:10-11, 13. Jan. 31, 1951. 24 F225

Farming in the Bechuanaland Protectorate and the possibilities for increased production.

41297 BRANNAN, C. F. Farm family agriculture is basic bulwark against threat of Communism, Fascism in world. N. Dak. Union Farmer 17(14):5, 8. (To be cont.) Dec. 4, 1950. 280.28 N812

41298 BROWN, C. Among the cattle ranchers. Land Worker 32(381):3, 5. Feb. 1951. 283.8 L22

Nebraska.

41299 BUDDÉ, Vielseitig und intensiv. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:77-78. Jan. 18, 1951. 18 L2346

41300 CARTER, J. Live animals turn a "por" Illinois farm on road to profit. Natl. Live Stock Prod. 29(6):16, 23. Mar. 1951. 280.38 N21

Management.

41301 DILLON, M. Planning for farming. Agr. Ireland 8:28-29, 31. Feb. 1951. 10.5 Ag8

41302 DÜRR, K. Bodenknappheit und grundrentenbildung; bemerkungen zu Carells grundrententheorie. Schweiz. Z. f. Volkswirt. u. Statis. 86:558-562. Dec. 1950. 280.8 Z3

41303 ETTER, T. F. Wanted—a better way. Kraftsman, Prod. Ed. 1951:10. Jan./Feb. 1951. 44.8 K85

Dairy farming.

41304 FERRER, V. O. The communal byre project at Windsor Forest—La Jalousie in British Guiana. Brit. Guiana. Dept. Agr. Econ. B. 3, 6 p. 1950. 281.9 B772

41305 GERASIMOV, A. Organizational and economic strengthening of a consolidated collective farm. (In Russian.) Kolkhoz. Proizvodstvo 10(9):3-7. Sept. 1950. 281.8 K83

Novaya Zhizn' Collective Farm in Moscow Region.

41306 GETSMAN, V. We are developing all branches of our economy. (In Russian.) Kolkhoz. Proizvodstvo 10(9):14. Sept. 1950. 281.8 K83

Diversified farming on Voroshilov Collective Farm in Baranovich Region.

41307 GIBERTI, H. Zonas marginales. Chacra 21(240):10-11; (243):8-9. Nov. 1950, Feb. 1951. 9 C34

Argentina.

41308 GOLUBASH, IŮ. Lesnye pol'any [Lesnye Pol'any state farm]. Moskva, Moskovskii Rabochii, 1950. 107 p. 43 G582

Dairy farm.

41309 GUSTAFSSON, Y. Experiments and research in the service of efficient farming. (In Swedish.) Blekinge Läns Hushållsk. Tidskr. 1950:62-68. 11 B61

41310 HAASE, G. Farm organization and operation in the Elbow-Saskatoon area of central Saskatchewan. Econ. Annal. 21:11-13. Feb. 1951. 281.8 Ec72

41311 HARRINGTON, J. B. Agriculture in Egypt. West. Prod. Mag. 1951:3. Feb. 8, 1951. 7 W523

41312 HAUGEN, O. I. Management problems in agriculture. (In Norwegian.) Norsk Landbr. 17:40-42. Feb. 2, 1951. 11 N8122

41313 HAWAII. COMMISSIONER OF PUBLIC LANDS. Report for the two years ending June 30, 1950. Honolulu, 1950. 84 p. 252.20 P96R

41314 HILL, E. B., and HARRIS, M. Family farm-operating agreements. Mich. Agr. Expt. Sta. Spec. B. 368, 38 p. Jan. 1951. 100 M585



- 41315 **IAKOVLEV, V.** Organization of animal industry of a consolidated collective farm [Kirov Kolkhoz in Tula Region]. (In Russian.) Kolkhoz. Proizvodstvo 10 (9):9-10. Sept. 1950. 281.8 K83
- 41316 **IAROSHENKO, S.** Development of a multi-branched [agricultural] artel. (In Russian.) Kolkhoz. Proizvodstvo 10(9):11-13. Sept. 1950. 281.8 K83  
Diversified farming on 8 Marta Collective Farm in Kharkov Region.
- 41317 **JEFFREYS, M. D. W.** Negro agricultural origins. So. African J. Sci. 47:127-132. Ref. Dec. 1950. 515 So84
- 41318 **JUDKINS, W. P.** Virginia fruit growers should consider diversification. Va. Fruit 39(2):113-117. Feb. 1951. 81 V81B
- 41319 **KAL'M, P.** Prospective plans of consolidated Iskra Collective Farm. (In Russian.) Kolkhoz. Proizvodstvo 10(9):8. Sept. 1950. 281.8 K83
- 41320 **KERNAN, H. S.** Farm life in the Bolivian Highlands. Rur. New-Yorker 101:131,142. Feb. 17, 1951. 6 R88
- 41321 **KHRUSHCHEV, N. S.** O nekotorykh voprosakh dal'neshnego organizatsionno-khozhaystvennogo ukrepleniia kolkhozov [On some problems of further organizational-economic consolidation of collective farms]. Moskva, Gos. Izd-vo Polit. Lit-ry, 1950. 36 p. 281.179 K5260
- 41322 **KOLESNEV, S.** Some data on advantages of large-scale collective farms. (In Russian.) Sotsialist. Sel'sk. Khoz. 21(10):17-22. Oct. 1950. 281.8 So73
- 41323 **KUZNETSOV, A.** Collective farms of Latvia on the road to further growth. (In Russian.) Kolkhoz. Proizvodstvo 10(9):15-16. Sept. 1950. 281.8 K83
- 41324 **LEVY, E. B.** British farming trends. New Zeal. Dairy Exporter 25(12):6-7, 48-50. June 1950. 44.8 N484
- 41325 **LIBKIND, A.** Methods for increasing the profitability of state farms. (In Russian.) Sotsialist. Sel'sk. Khoz. 21(10):30-41. Oct. 1950. 281.8 So73
- 41326 **MCMEEKAN, G. P.** Una granja en Nueva Zelandia. (Extr.) Asoc. Rur. del Uruguay. Rev. 78:12-14. Jan. 1951. 9.9 As5
- 41327 **MCVICKAR, M. H.** Mom & pop carry on. Breeder's Gaz. 116(3):7, 22. Mar. 1951. 49 B74  
Farming.
- 41328 **MANAGEMENT** problems in agriculture. II-III, V. (In Norwegian.) Norsk Landbr. 17:69-72, 107-109. Feb. 16, Mar. 16, 1951. 11 N8122  
Pt. II, by K. Isachsen; Pt. III, by O. Moen; Pt. V, by O. Øksnes.
- 41329 **MEZERIK, A. G.** The wise family farmer and his resources. Natl. Union Farmer 1951:6. Jan. 1951. 281.8 N212
- 41330 **MIYATE, H.** Toshi kinko nogyo-ron [Farming in the neighborhood of cities]. Tokyo, Jutsugyo no Nihon-Sha, 1950. 254 p. 34.3 M693
- 41331 **NEUKOMM, W.** Zur frage der lebensfähigkeit und existenzberechtigung landwirtschaftlicher kleinbetriebe. Agrarpolit. Rev. 7:193-200. Jan. 1951. 281.8 Ag824  
Switzerland.
- 41332 **NEVZOROV, G. A.** Two years of achievements of the consolidated Lenin Collective Farm [in Lebedinski District, Sumy Region]. (In Russian.) Sotsialist. Zhivotnovod. 12(11):71-77. Nov. 1950. 49 So71
- 41333 **OKLAHOMA. DEPT. OF COMMISSIONERS OF THE LAND OFF.** Biennial report, July 1, 1948/June 30, 1950. Oklahoma, 1950. 43 p. 282.9 Ok42
- 41334 **PATERSON, R.** Problems of management. 11-13. Farmers Wk. [London] 34(6):53; (7):53; (8):57. Feb. 9-23, 1951. 10 F2226  
11, 'Twixt combine and sack; 12, Gravity works for nothing; 13, The bail takes root.
- 41335 **PATTEN, W. F.** Farm management for hire. Farm Q. 6:77-79, 121-126. Spring 1951. 6 F22995
- 41336 **PFEIFFER, K.** Milch, fleisch, brot und kartoffeln aus keupersand. Milcherzeuger 8:44-46. Dec. 1950. 43.8 M592  
Farm management.
- 41337 **PIERCE, W. H., WILLIAMS, M. S., and LEE, W. D.** Farming opportunities in North Carolina. N. C. Agr. Col. Ext. C. 355, 41 p. Oct. 1950. 275.29 N811  
Based on and replaces Extension Circular 283.
- 41338 **RAGSDALE, A. C.** Improving herd efficiency. Sanit. Milk 22(7):3-4. Feb. 1951. 280.28 Sa5  
Management and milk production costs.
- 41339 **RAYMOND, P.** Agriculture. Issy-les Moulineaux (Seine), Les Presses Missionnaires, 1950. 55 p. 33.17 R21  
Farming methods.
- 41340 **ROARK, C. L.** Farming is a business. Farm & Ranch South. Agr. 81(3):36-37, 61. Mar. 1951. 6 T31  
Farming practices.
- 41341 **RUSSELL, J. S.** For the man who wants to start farming, how tough can it get? Iowa Farm & Home Register 1951:3-H-4-H. Jan. 7, 1951. 6 Io94
- 41342 **SCHILLER, O.** The farming co-operative: a new system of farm management. Land Econ. 27:1-16. Feb. 1951. 282.8 J82
- 41343 **SCHRUMPF, W. E.** Effect of potato acreage adjustments on farm practices in Aroostook County, Maine, 1948 and 1949. Maine. Agr. Expt. Sta. B. 485, 67 p. Sept. 1950. 100 M288
- 41344 **SCHULTZ, T. W.** We need an efficient agriculture. Farm Policy Forum 4(3):15-19. Mar. 1951. 281.8 F2274
- 41345 **SMIRNOV, V., and AKISHEV, S.** Increase in public economy of consolidated collective farms. (In Russian.) Sotsialist. Sel'sk. Khoz. 21(9):24-32. Sept. 1950. 281.8 So73
- 41346 **SMITH, C. S.** First steps on a long road; an interim report on progress under the Hill Farming Act. 1-2. Northumberland. Farmers Wk. [London] 34(9):52-53; (10):56-57. Mar. 2-9, 1951. 10 F2226
- 41347 **SOMMERKAMP, G.** Möglichkeiten der arbeitsteiligen erzeugung. Landwirt. Wechnbl. f. Westfalen u. Lippe 108A:117-118. Jan. 25, 1951. 18 L2346  
Farm management.
- 41348 **STÄHLBERG, H.** Agricultural management. (In Swedish.) Lantbrtidskr. f. Dalarna 1950:166-170. Oct. 1950. 11 L29  
Farm financing.
- 41349 **STAUSS, W.** Der bauer und die technik. Nachr. f. Beratung u. Ausbild. in der Landwirt. 4:5-7. Jan. 1951. 18 N11  
Germany.
- 41350 **THOMAS, J. F. H.** Some problems in present day sheep husbandry. Brit. Farmer 32:10. Feb. 28, 1951. 281.8 B77  
Management.
- 41351 **TOKMAKOV, P.** Public livestock industry of a consolidated collective farm. (In Russian.) Kolkhoz. Proizvodstvo 10(9):29. Sept. 1950. 281.8 K83  
Farm management.
- 41352 **TRANS-JORDAN. DEPT. OF LANDS AND SURVEYS.** Annual report, 1949. Amman? 1950. 18 p. 282.9 T68R
- 41353 **TRESCHOW, A.** Cooperative farming. (In Swedish.) Lantmannen 35:74-75. Jan. 27, 1951. 11 L234  
Sweden.
- 41354 **TSYNKOV, M.** Organization of economy of a consolidated collective farm. (In Russian.) Sotsialist. Sel'sk. Khoz. 21(9):15-23. Sept. 1950. 281.8 So73
- 41355 **VINING, K.** Kellogg farm—it's done much to lead way to improved methods of farming. Prairie Farmer, Mich. Ed. 123(5):7. Mar. 3, 1951. 6 P883A
- 41356 **VOITOV, P.** First results of the work of machine-tractor stations on the consolidated farms. (In Russian.) Mashinno-Traktornaf. Sta. 10(9):5-10. Sept. 1950. 58.8 M11
- 41357 **VOLKOV, I.** Sources of increase in public economy of collective farms [in Alma-Ata Region]. (In Russian.) Sotsialist. Sel'sk. Khoz. 21(10):23-29. Oct. 1950. 281.8 So73
- 41358 **WEEKS, S. B., and FRICK, G. E.** Reorganization would pay on New England dairy farms. Agr. Situation 35(2):4-6. Feb. 1951. 1 Ec7Ag
- 41359 **WEITZ, J.** The hills of Jerusalem. Israel & Middle East 22:147, 149, 167. Nov./Dec. 1950. 286.8 P172  
Farming and reforestation.
- 41360 **WEST, Q. M.** The results of applying a simple random sampling process to farm management data. N. Y. Agr. Col. A. E. 743, 84 p. Jan. 1951. 281.9 C81
- 41361 **WILT, H. S.** Farming together. Mich. Farmer 215:133, 181. Feb. 17, 1951. 6 M58  
Father and son partnership.
- 41362 **YOHE, R. S.** Alpine farmer; he has learned he can make a good living from cows, grass and trees. Prairie Farmer, Ill. Ed. 123(4):54-55. Feb. 17, 1951. 6 P883B



Bookkeeping and Records

- 41363 ERICSON, F. L. Expanded qualitative rendering of accounts should be the aim. (In Swedish.) *Lantmannen* 35:83-87. Feb.3,1951. 11 L234
- 41364 FUSSELL, G. E. A Suffolk farmer's accounts. *Farmers Wk.* [London] 34(9):67. Mar.2,1951. 10 F2226
- Old Moore's Almanac of 1730.
- 41365 MERISH, F. Records made him \$1,250 richer. *N. J. Farm & Gard.* 22(2):46,48. Feb.1951. 6 G162
- 41366 PANATTONI, A. About the choice of the unit of reference for farm accounting data. (In Italian.) *Riv. di Econ. Agr.* 5:345-347. 1950. 281.8 R52
- English summary.
- 41367 TIVOLI. Culture paysanne et comptabilité. II. *Cerca* 24(210):5-8. Jan.1951. 105.3 An4C
- France.
- 41368 TRESHCHETKIN, N. How we are improving our [collective farm] bookkeeping. (In Russian.) *Kolkhoz. Proizvodstvo* 10(9):43. Sept.1950. 281.8 K83
- 41369 YEAGER, J. H. Why keep farm records? *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1951:6-7. Jan.26,1951. 275.29 In2Em
- 41370 YOHE, R. S. Your time is valuable! It's expensive tool! But records can show where you're wasting time and labor. *Prairie Farmer, Gen. Ed.* 123(3):1,23. Feb.3,1951. 6 P883

Costs and Returns

- 41371 ARSENAULT, L. Bacon payant si terre payante. *Foyer Rur.* [Montreal] 10(4):4-5. Jan.1951. 7 F83
- Canada.
- 41372 BERTSCH, M. How do your pigs rate on feed costs? *Prairie Farmer, Gen. Ed.* 123(4):5. Feb.17,1951. 6 P883
- 41373 BOBBY, F. C. Reducing egg-production costs on poultry farms. *New Zeal. J. Agr.* 81:550. Dec.15,1950. 23 N48J
- 41374 BONADONNA, T. Costs and returns in the practice of artificial insemination. III. (In Italian.) *Agri-coltore* [Milano] 31(43):1. Oct.28,1950. 16 Ag862
- Cattle in Italy.
- 41375 BRIZI, A. Estimation of the profitability in farm management. (In Italian.) *Assoc. Naz. delle Bonifiche, Irrig. e Miglioramenti Fondiari. B. Mens.* 4:143-145. Nov.1950. 55.8 As72
- 41376 BROCKETT, J. E. How to make \$1.80 per bird this year. *N. J. Farm & Gard.* 22(3):46,48-49. Mar.1951. 6 G162
- 41377 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. First annual walnut management study, Tulare County, by B. B. Burlingame and C. Ferris. Berkeley, 1950. 6 p. 275.29 C12En
- Chiefly costs and returns.
- 41378 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Freestone peach management study, Solano County; first annual report crop year, 1950, by B. B. Burlingame. Berkeley?, 1950? 4 p. 275.29 C12En
- Chiefly costs and returns.
- 41379 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Fresno county chicken meat study, 1950, by R. Houck and B. B. Burlingame. Berkeley, 1950. 6 p. 275.29 C12En
- Chiefly costs and returns.
- 41380 DOWNEN, M. L. Seasonal costs of producing and marketing fluid milk in the milkshed of Chattanooga Tennessee, 1949-50. *Tenn. Agr. Expt. Sta. Rur. Res. Ser. Monog.* 263,38 p. Jan.25,1951. 173.2 W89Co
- 41381 EMERY, A. U. Honey costs and prices. *Wiltshire Beekeepers' Gaz.* 67:2-4. May/June 1950. 424.8 W71
- 41382 FINN, H. R. Profitable poultry on the general farm [Great Britain]. *Gt. Brit. Min. Agr. Agriculture* 57:523-527. Feb.1951. 10 G79J
- 41383 FRANCE. INSTITUT NATIONAL DE LA STATISTIQUE ET DES ETUDES ECONOMIQUES. Revenu de l'agriculture en 1949-1950. *France. Inst. Natl. de la Statis. et des Etudes Econ. Etudes et Conjoncture Econ. Franç.* 5(6):19-37. Nov./Dec.1950. 280.8 F84
- 41384 GAST, K. Mining the 'blue gold'; intensify your operation with a vineyard. *Purdue Agr.* 42(5):7,14. Feb.1951. 6 P97
- Costs and returns.
- 41385 GILES, B. D. Real costs and accounting costs in agriculture. *Farm Econ.* 6:221-225. 1950. 281.8 F223
- 41386 GRUGET, E. A. El cáñamo. *Bolsa de Com. Rosario. Rev.* 38(935):9,11-20. (Concl.) Dec.31,1950. 287 R71
- Production costs and marketing.
- 41387 HARVEY, J. R. The right price is 4s. 6d. a dozen; Poultry Association of Great Britain's case for a higher average egg price for the producer in 1951-52. *Mod. Poultry Keeping* 64:135. Feb.7,1951. 47.8 Eg3
- 41388 HOOPER, J. H., LORD, R. F., and WYLLIE, J. Financial results for 1949 and for the five years 1945 to 1949. *Wye Col. Dept. Econ. Farm Mangt. Survey, Rpt.* 4,24 p. Nov.30,1950. 281.9 W97
- 41389 HOWALD, O. Confédération Européenne de l'Agriculture; méthodes de détermination de la situation de l'agriculture (frais de production, rentabilité, pouvoir d'achat). *Inform. Marocaine* 521:1,3. Jan.6,1951. 281.8 In3
- 41390 INCIDENZA delle spese sulla produzione lorda vendibile del concedente nella mezzadria toscana [Incidence of costs on the gross marketable product of the lessor in Tuscan share farming]. *Quaderni di Econ. e Polit. Agr.* 5,82 p. 1950. 281.8 Q2
- 41391 ISTITUTO NAZIONALE DI ECONOMIA AGRARIA. Cost of production and distribution of fruit. (In Italian.) *Riv. di Econ. Agr.* 5:297-328. 1950. 281.8 R52
- Uffizio Nazionale Statistico-Economico dell'Agricoltura, cooperating.
- English summary.
- Italy.
- 41392 KETTERING, D. G. What can be done about dairy costs? *Mich. Milk Messenger* 32(11):4. Mar.1951. 44.8 M582
- Milk production.
- 41393 LEBEUF, J. La notion de profit chez le cultivateur Africain. *Agron. Trop.* 6:57-65. Jan./Feb. 1951. 26 Ag86
- 41394 MAUNDER, A. H. A note on milk yields and profitability. *Farm Econ.* 6:225-227. 1950. 281.8 F223
- 41395 NORGES LANDBRUKSKONOMISKE INSTITUTT. Driftsgranskinger i jordbruket. Regnskapresultater 1948-49. 2 [Farm management studies. Bookkeeping results 1948-49. 2]. Halden, 1950. 121 p. 11 N762
- Table of contents in English.
- 41396 NOTTINGHAM. UNIVERSITY. SCHOOL OF AGRICULTURE. DEPT. OF AGRICULTURAL ECONOMICS. Costs and returns from wheat grown in the East Midlands, in the 1948-49 season. *Sutton Bonington, Loughborough, 1950.* 11 p. 281.3599 N84C
- 41397 NOTTINGHAM. UNIVERSITY. SCHOOL OF AGRICULTURE. DEPT. OF AGRICULTURAL ECONOMICS. Sugar beet growing in the East Midlands, 1949. *Sutton Bonington, Loughborough, 1950.* 15 p. 281.3669 N84
- Costs and returns.
- 41398 RATINEAU, J. La rentabilité de la transformation du végétal en animal. *Agriculture* [Paris] 15(120):11-15. Jan.1951. 14 Ag823
- Costs and returns.
- 41399 RODINÒ, M. Costs and prices in agriculture. (In Italian.) *Not. Agr.* [Padova] 84/85:1. Nov./Dec.1950. 16 N844
- Italy.
- 41400 RONSON, R. Comments on the economy of eggs. *Family Herald & Wk. Star* 82(6):20. Feb.8,1951. 7 F21
- 41401 ROWE, J. Z. Hay harvesting costs vary according to methods used. *N. Mex. Agr. Col. Ext. News* 31(2):3. Feb.1951. 275.29 N463Ex
- 41402 SAVAGE, Z. Should I buy a citrus grove? *Citrus Indus.* 32(3):10-11;(4):10-11. Mar.-Apr.1951. 80 F492
- Costs and returns.
- 41403 SCOVILLE, G. P., and others. Fruit farms analyzed; 36 years of farm business records in Niagara County. *N. Y. Agr. Col. A. E.* 769,38 p. Feb.27,1951. 281.9 C81
- F. Pringle, F. Lennox, and J. Sistek, joint authors.
- Costs and returns.
- 41404 SEALE, A. D., JR. Pilot farm records show income produced by hens on dairy and cotton farm. *Miss. Farm Res.* [Miss. Sta.] 14(2):6. Feb.1951. 100 M69M1
- 41405 SERPIERI, A. Costs of production. (In Italian.) *Riv. di Econ. Agr.* 5:329-336. 1950. 281.8 R52
- English summary.



41406 TAYLOR, B. Investing in good purebreds. Breeder's Gaz. 116(3):7,22. Mar.1951. 49 B74  
Cattle costs and returns.

41407 VINCCS, A. El costo del vino. Semana Vitivinic. 5(230):24-25. Nov.25,1950. 95.8 Se5

41408 YORKE, L. C. The egg-feed ratio; a guide to the profitability of poultry farming. Agr. Gaz. N. S. Wales 61:618-622. Dec.1,1950. 23 N472

#### Land Settlement and Colonization

41409 CABRAL, A. Azores people in Angola. (In Portuguese.) Azores. Comis. Regulad. dos Cereais. B. 7(13): 95-99. First Semes.1951. 15 Az6  
Settlement.

41410 CONFORTI, E. First Brazilian Conference on Immigration and Colonization (Goiania, April 30-May 7, 1949). (In Italian.) Riv. di Agr. Subtrop. e Trop. 44:276-283. Oct./Dec.1950. 26 Ag82  
English summary.

41411 DORION, P. A. Une expérience en établissement rural trop peu connue. Foyer Rur. [Montreal] 10(5):6-8. Feb.1951. 7 F83  
Five year program for settling youth on the land in Quebec.

41412 EAST PUNJAB. PUBLIC RELATIONS DIRECTORATE. PUBLICITY DEPT. Quasi-permanent allotment of land in Punjab. Simla, 1950? 40 p. 282.182 Ea7

41413 FRANKEN, U. K. Establishing veterans in farming. Agr. Educ. Mag. 23:211. Mar.1951. 275.8 Ag8

41414 MCNULTY, G. Will two generations go broke on Basin? II. Wash. Farmer 76:194-195. Mar.15,1951. 6 R151  
Experimental work on the Columbia Basin project before the settlers take over their land.

41415 MARCHAL, A., and RUYSSSEN, B. Expérience de colonisation au Niger. Agron. Trop. 6:71-73. Jan./Feb.1951. 26 Ag86

41416 NAYUDU, K. S. The Thirumangalakottai Ex-servicemen's Co-operative Agricultural Colonisation Society. Madras J. Co-op. 42:253-260. Nov.1950. 280.28 M26

41417 O'FARRELL, S. The farm we never tilled. Landmark 7(12):6,12. Dec.1950. 281.28 L23  
Story of an Irish back-to-the-land project that did not materialize.

#### Land Tenure

41418 ALL-PAKISTAN ECONOMIC ASSOCIATION. Proceedings of the Second All-Pakistan Economic Conference. Pakistan Econ. J. 2(2):145-186. Dec.1950. 280.8 P174  
Includes papers and discussion on the problems of land tenure and trade.

41419 ARTHUR, I. W., and TIMMONS, J. F. Keep leases up with new farming methods. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 5:115-116. Feb.1951. 275.28 Io94

41420 AUBOYER-TREUILLE, J. Remembrement rural. Rev. de Lég. Agr. 3:218-219. Nov./Dec.1950. 281.8 R325  
France.

41421 BILZ, A. 151649 weinbaubetriebe im bundesgebiet. Weinbau 6:26. Jan.21,1951. 390.8 W432  
Germany.

41422 BLACHEZ, P. R. La propriété de la terre et les dernières réformes agraires en Europe. Agr. Prat. 115:13-14. Jan.1951. 14 J82

41423 BRUGGE, G. J. TER. Performance of the consolidation of land holdings. (In Dutch.) Landbk. Tijdschr. 62:971-976. Dec.1950. 105.2 Or3  
Netherlands.

41424 CERCLER, R. Les droits de succession tuent notre agriculture. Agr. Prat. 115:25-26. Jan.1951. 14 J82  
France.

41425 CHASE, S. J. Give grass a chance on rented farms; better leases to share pasture profits are first step. Nebr. Farmer 93(6):1,9,27,31. Mar.17,1951. 6 N27

41426 CHINI, A. Fair rent and its determination. (In Italian.) Gior. di Agr. 61:21. Jan.21,1951. 16 It1G  
Italy.

41427 COCHRAN, T. C. Land grants and railroad entrepreneurship. J. Econ. Hist. 10(sup.10):53-67. 1950. 277.8 J822

41428 CROCE, L. The agrarian reform in Calabria. (In Italian.) Gior. di Agr. 61:17. Jan.21,1951. 16 It1G

41429 DALMASSO, G. On the land reform. (In Italian.) Colt. e Gior. Vinic. Ital. 96:327-329. Dec.15,1950. 16 C72

41430 FRICK DAVIE, C. El arrendamiento y sus obligaciones. Asoc. Rur. del Uruguay. Rev. 78:20,22-27. Jan.1951. 9.9 As5

41431 GAMBA, C. The Italian peasants' revolt. Austral. Q. 22:98-106. Dec.1950. 280.8 Au7

41432 GARCÍA ISIDRO, M. Contratos de aparcería; el célebre artículo 7.º de la ley de 1940. Agricultura [Madrid] 20(225):14-17. Jan.1951. 15 Ag84

41433 GIORGI, G. Aspects of land reform in West-ern Germany. (In Italian.) Riv. di Econ. Agr. 5:348-356. Ref. 1950. 281.8 R52  
English summary.

41434 HENDERSON, W. A. The surveyor's contribution to a good property title. Surveying & Mapping 11:48-50. Jan./Mar.1951. 325.8 Am3

41435 HILL, E. B. It's farm lease time. Mich. State Col. Agr. Ext. Mich. Farm Econ. 98:3-4. Feb.1951. 275.29 M58A

41436 HOWARD, J. O. Communist formula for land reform. Foreign Agr. 15:47-52. Mar.1951. 1.9 Ec7For

41437 HUDA, M. N. Land tenure and agricultural production. Pakistan Econ. J. 2(2):29-33. Dec.1950. 280.8 P174

41438 KHAN, A. A. System of land tenure and its effect on agriculture in the Punjab. Pakistan Econ. J. 2(2): 34-39. Dec.1950. 280.8 P174

41439 KOVALEV, E. Agrarian policy of the Communist Party of China. (In Russian.) Voprosy Ekon. 1950 (10):57-69. Oct.1950. 280.8 V89

41440 LISSNER, T. Zusammenlegung landwirtschaftlicher grundstücke. Gerold's Hand. der Landwirt. 3:193-201. 1950? 33.29 G31  
Austria.

41441 MEDICI, G. How I see the organization of a Society for Land Reform. (In Italian.) Gior. di Agr. 61: 9-10. Jan.14,1951. 16 It1G  
Italy.

41442 MORINI, M. The expropriation law. (In Italian.) Colt. e Gior. Vinic. Ital. 96:314-316. Nov.30,1950. 16 C72

41443 MUL'NER, IŮ. S. Result of collective farm consolidation in Likhovets District [Moscow Region]. (In Russian.) Sotsialist. Zhivotnovod. 12(9):76-82. Sept. 1950. 49 So71  
Chiefly on its effect on livestock production.

41444 OPSAL, A. Let the Svorkmo land become "a realm"! (In Norwegian.) Tidsskr. f. Skogbruk 58:174-178. July/Aug.1950. 99.8 T432  
Consolidation of holdings.

41445 PETIT-LAURENT, V. La transmission du patrimoine. Fiches Rur. 65:9-14. Jan.1951. 281.8 F44  
Farm inheritance in France.

41446 PRAULT, L. Les propriétaires fonciers et le statut du fermage et du métayage. Indus. Natl. 1950:69-84. July/Sept.1950. 473 In2  
France.

41447 RICCHIONI, V. Land seizures and the cooperative movement in Apulia. (In Italian.) Riv. di Econ. Agr. 5:274-296. 1950. 281.8 R52  
English summary.

41448 SACKS, R. The British West Indies and the surveyor. Roy. Inst. Chartered Surveyors. J. 30:701-716. Feb.1951. 282.9 C38J  
Includes land tenure and agriculture.

41449 SAGAR, V. Agricultural holdings in the District of Kanpur. Uttar Pradesh. Dept. Econ. & Statis. B. 16,100 p. 1950. 280.9 Un323

41450 SAJA, F. Owners and property that fall under the agrarian reform. (In Italian.) Cron. Econ. 94:8. Nov. 30,1950. 280.8 C882  
Italy.

41451 SERPIERI, A. Transformation of the Sila Plateau. (In Italian.) Riv. di Econ. Agr. 5:93-100. 1950. 281.8 R52  
English summary.

41452 THOMPSON, E. M. Land reform in Asia. Editorial Res. Rpt. (1951):1:83-100. Feb.7,1951. 280 Ed42

41453 TOUSSAINT. Quelles améliorations peut-on apporter au statut du fermage et du métayage après cinq ans d'expériences? Acad. d'Agr. de France. Compt. Rend. 36:610-613. Nov.15/22,1950. 14 P215Bc



41454 VISSER, W. C. Observations and figures on the financial consequences of consolidation of holdings. (In Dutch.) *Landbk. Tijdschr.* 62:993-1010. Dec.1950. 105.2 Or3  
Netherlands.

#### Land Utilization

41455 COSTELLO, R. B. Possibilities for utilizing airphoto interpretation in the Cornell economic land classification system. *Land Econ.* 27:24-30. Feb.1951. 282.8 J82

41456 GENDEL'MAN, M., and MURASHCHENKO, N. Land utilization of consolidated collective farms in the steppe of Ukrainian SSR. (In Russian.) *Sotsialist. Sel'sk. Khoz.* 21(11):24-35. Nov.1950. 281.8 So73

41457 HARTARD EBERT, M. Distribución de la superficie del país y su aprovechamiento agrícola y forestal Campesino [Santiago] 83:29,31. Jan.1951. 9.3 So12  
Chile.

41458 IOWA. AGRICULTURAL EXPERIMENT STATION. Teamwork toward better land use and soil conservation in western Iowa. *Iowa Agr. Expt. Sta. Spec. Rpt.* 4,27 p. July 1950. 100 Io9Sp  
Iowa Agricultural Extension Service and U. S. Department of Agriculture cooperating.

41459 LISSNER, T. Grundkataster. *Gerold's Handb. der Landwirt.* 3:202-206. 1950? 33.29 G31  
Austria.

41460 OSGOOD, O. T. The land-use-pattern scale. *Better Crops Plant Food* 35(2):6-12,40-43. Feb.1951. 6 B46

41461 SHAPTON, W. W. Land acquisition; P-R report *Mich. Conserv.* 20(2):11-13,26-28. Mar./Apr.1951. 279.9 M582

41462 SKERMAN, P. J. Land classification in Australia. *Austral. J. Sci.* 13:51-52. Oct.1950. 475 Au72

#### Land Values and Valuation

41463 BRANNAN, C. F. Farm prices in the price control picture. (Excerpts.) *Rur. Realtor* 3:3. First Q. 1951. 282.8 R88

41464 BRESNAHAN, C. A. Farm brokerage—the back bone of our industry. *Rur. Realtor* 3:1,3. First Q.1951. 282.8 R88

41465 CANNON, G. How to buy a farm. *Farm Q.* 6: 22-27,134-139. Spring 1951. 6 F22995

41466 DUGGAN, I. W. Danger: land boom ahead? *Mortgage Banker* 11(6):7,25. Mar.1951. 284.29 M84Mo

41467 DU PLESSIS, C. VAN H. Land is dear in the wool district. (In Afrikaans.) *Landbouweekblad* 32(1644): 12,20. Jan.17,1951. 24 L232  
Union of South Africa.

41468 FELICE, P. DE. L'arbitrage du prix en cas de préemption du preneur. *Monit. Agr.* 4(145):5. Jan.21, 1951. 14 M744

Farm transfer in France.

41469 GUTMAN, G. O. Trends in rural land values. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 4(1):29-33. Jan.1951. 281.9 Au73  
Australia.

41470 HURLBURT, V. L. Buying of farms in Story County, Iowa, 1940-48. *Iowa Agr. Expt. Sta. Res. B.* 378:981-1015. Dec.1950. 100 Io9

41471 JONES, R. D. Buying farms—where smart money is going. *Rur. Realtor* 3:4-5,8. First Q.1951. 282.8 R88

41472 MURRAY, W. G. Large increase in land values in 1950. *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 5:117-118. Feb.1951. 275.28 Io94

41473 VIROLAINEN, J. Maatalousmaan arvioimisesta ja arvosta Suomessa vuosina 1934-1938. On the appraisal and value of arable land in Finland, 1934-1938. *Suomen Maataloustiet. Seura. Julkaisu.* 72,283 p. 1950. 20 Su7  
English table of contents and summary.

41474 WENZLICK, R., & CO. Farm values and taxes move higher. *Wenzlick, R. & Co. Agr. B.* 20:25-32. Jan.31,1951. 282.9 R

#### POPULATION

41475 ANTONIETTI, A. Aspects and problems of agricultural emigration. (In Italian.) *Mercanzia* 5(12):23-32. Dec.1950. 287 B635  
Italy.

41476 ARNADE, K. C. It's so peaceful in the country. *United Nations World* 5(3):26-27. Mar.1951. 280.8 Un384  
Urban exodus.

41477 DALMASSO, G. At the dying year. (In Italian.) *Colt. e Gior. Vinic. Ital.* 96:343-344. Dec.31,1950. 16 C72  
Rural exodus.

41478 JEHLIK, P. J. Iowa loses more farm people. *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 5:124-126. Feb. 1951. 275.28 Io94

41479 MORALES PRADILLA, P. El problema de la inmigración. *Rev. Agr. y Ganad.* 12(130):9-10. Nov. 1950. 9.4 R327  
Colombia.

41480 NEUBERGER, R. L. They're leaving the farm. *Sunday Oregonian, Farm, Home, Gard.* 1951:11. Feb.18, 1951. 6 Su7

41481 NEUBERGER, R. L. Why people are moving to town. *Survey* 87:119-122. Mar.1951. 280.8 C37

41482 SEEDORF, W. Landvolkpolitik. *Landwirt. Informdienst.* 1950(8):1-2. 18 L2312  
Germany.

41483 TARVER, J. D. Arkansas population loss occurs during past decade. *Ark. Agr. Col. Ext. Ark. Agr. Ext. Econ.* 10(2):1-2,4. Feb.1951. 275.29 Ar4Ark

41484 VANDER VAEREN, J. Un nouveau moyen de lutter contre l'exode rural: "les concours entre villages." *Acad. d'Agr. de France. Compt. Rend.* 36:595-600. Oct.25/Nov.8,1950. 14 P215Bc

#### RURAL SOCIAL ORGANIZATION

41485 FILENI, E. The spiritual values of rural life. (In Italian.) *Gior. di Agr.* 60:404. Dec.24,1950. 16 It1G  
Italy.

41486 GARD, R. E., and KAMARCK, E. L., eds. *Rural Wisconsin in prose & verse. Wis. Agr. Col. Ext. Stencil C.* 326,58 p. Oct.1950. 275.29 W75B

41487 HEALY, C. Farm life in Fermanagh. *Countryman [Burford]* 43:33-36. Spring 1951. 281.28 C832

41488 HOFSTEE, E. W. Social aspects of the agricultural policy. (In Dutch.) *Landbk. Tijdschr.* 63:23-33. Jan.1951. 105.2 Or3

41489 LANDIS, B. Y. Rural social programs. *Social Work Ybk.* 11:432-438. 1951. 280.9 So123

41490 MOORAHREND. Das bundesversorgungsgesetz. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:323. Mar. 1,1951. 18 L2346  
Welfare measures.

41491 RICHARD, A. Zeitlose bäuerliche Lebensauf-fassung. *Landwirtsbl. Weser-Ems* 1951:4-5. Jan.4,1951. 18 L2345

41492 RICHMOND, A. C. Two ways of country living. *Countryman [Burford]* 43:50-54. Spring 1951. 281.28 C832

41493 SOCIAL work year book, 11, 1951. New York, 1951. 696 p. 280.9 So123

41494 VIDART, D. Esquema de una sociologia rural uruguaya. XXVII-XXXI. Uruguay. Min. de Ganad. y Agr. B. Inform. 352:16;353:14;354:6;355:6;356:4. Dec.21,1950-Jan.18,1951. 9.9 G15B

41495 WIBBERLEY, G. P. Agricultural changes and rural living. *Town & Country Planning* 19:64-68. Feb. 1951. 98.58 T66  
Great Britain.

#### Human Ecology

41496 DAVIS, D. R. An experiment in informal community organization. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1323,3 p. Feb.7,1951. 100 T31P

41497 DEEV, N. Experiment in planning villages of consolidated collective farms. (In Russian.) *Sel'sk. Stroitel'* 5(5):12-14. Sept./Oct.1950. 296.28 Se4

41498 DITTRICH, E. Grundlinien für einen deutschen raumordnungsplan. *Wirtschaftsdienst* 31:24-33. Jan.1951 280.8 W74  
English summary.

41499 LEADLEY, T. Grange builds a better community; Goehner Grange of Seward County wins \$5,000 in national contest. *Nebr. Farmer* 93(3):1,7,50. Feb.3,1951. 6 N27

41500 MUERMANN, E. Raumordnung und landesplanung. *Wirtschaftsdienst* 31:17-23. Jan.1951. 280.8 W74  
English summary.  
Germany.



- 41501 PETERSON, V. Missouri River Basin development plan. Kans. State Bd. Agr. Rpt. 69(296):38-47. Apr.1950. 2 K13Re  
Includes discussion.
- 41502 RAPER, A. F., and others. The Japanese village in transition. Supreme Commander Allied Powers. Nat. Resources Sect. Rpt. 136,272 p. Nov.1950. 280.9 AL5  
T. Tsuchiyama, H. Passin, and D. L. Sills, joint authors.
- 41503 SUMPTION, M. R. The little red school house as a community center. Ill. Agr. Assoc. Rec. 29(2):10. Feb.1951. 6 IL62

#### Institutions

- 41504 AKERS, B. H. Rural health problems; formation of community councils to study the needs is the first step to be taken. Farmer [St. Paul]. Gen. Ed. 69(6):16,66. Mar.17,1951. 6 F2211
- 41505 BAKER, D. V. Cornish craftsmen. Countryman [Burford] 43:140-146. Spring 1951. 281.28 C832
- 41506 BARBER, O. C. Farmers train as orators; weary of being out-talked, New York State farmers are learning to give dramatic, convincing accounts of their problems and viewpoints. Ext. Serv. Rev. 22:9. Jan.1951. 1 Ex892Ex
- 41507 BAREISS, G. Zum besuch der landwirtschaftsschulen. Württemb. Wchnbl. f. Landwirt. 118:174. Mar.3, 1951. 18 W96
- 41508 BARILI, P. The education of the peasants. (In Italian.) Gior. di Agr. 61:58. Feb.25,1951. 16 ItIG Italy.
- 41509 BASKETT, R. G. In the beginning. 15. The Faculty of Agriculture of the Queen's University of Belfast. Agr. Prog. 25:5-8. 1950. 10 Ag86
- 41510 BEAMER, R. W. Improving instruction through supervised farming. Agr. Educ. Mag. 23:205-206. Mar. 1951. 275.8 Ag8
- 41511 BECKERICH, A. L'allocation de salaire unique et les membres de la famille de l'exploitant. I-II. Agr. Prat. 115:18. Jan.1951. 14 J82
- 41512 BENDER, R. A veteran county agent looks at his job. (Sum.) Ext. Serv. Rev. 22:26,31. Feb.1951. 1 Ex892Ex
- 41513 BIEHLER, H. Der ganzheitsunterricht in der landwirtschaftlichen berufsschule. I. Nachr. f. Beratung u. Ausbild. in der Landwirt. 3:138-140. Dec.1950. 18 N11  
Germany.
- 41514 BOGER, J. Effect of perceptual training on group IQ test scores of elementary pupils in rural ungraded schools. (Abs.) Va. J. Sci. (n.s.):1:366-367. Sept. 1950. 470 V81
- 41515 BROW, S. A. The value of recreation in farm organization meetings. Nova Scotia Boys' & Girls' Club B. 13(12):6. Mar.1951. 275.28 N85
- 41516 CACCIAGUERRA, J. Le bureau rural de documentation. Agriculture [Paris] 15(120):21. (To be cont.) Jan.1951. 14 Ag823
- 41517 CALZECCHI-ONESTI, A. Agricultural bourgeoisie. (In Italian.) Gior. di Agr. 61:41. Feb.11,1951. 16 ItIG Italy.
- 41518 CAROF, V. Villages temoins. Potasse 25:25-27. Feb.1951. 57.8 P84  
Extension work in France.
- 41519 CARR, J. M. Who's subsidizing who? Town & Country Church 69:3-4. Mar.1951. 281.28 T66  
Churches.
- 41520 CARTER, M. Braided rugs. Wash. State Col. Ext. B. 439,11 p. Jan.1951. 275.29 W27P
- 41521 COOP, I. E. Lincoln college. New Zeal. Stud-masters' Annu. Rev. 2:22. Sept.1950. 49.7 N48  
Canterbury Agricultural College, Lincoln, N. Z.
- 41522 COUVREUR, F. P. Le concours général agricole 1951 sera le tableau d'honneur de nos meilleures productions. J. de la France Agr. 6:1253,1257. (To be cont.) Dec.8/14,1950. 14 J829
- 41523 CRAM, J. S. Where work and play did mix. Macdonald Col. J. 11(5):6-8. Jan.1951. 101 M144  
The study of agriculture and community organization at Macdonald College during Christmas week.
- 41524 CRAWLEY, J., and BAXTER, D. F.F.A. as a means. Agr. Educ. Mag. 23:204,212. Mar.1951. 275.8 Ag8  
Agricultural education.
- 41525 CRILE, L. Review of Extension studies, July to December 1950. U. S. Ext. Serv. Ext. Serv. C. 471, 51 p. Jan.1951. 1.9 Ex892Ese
- 41526 DÖRING. Beratung—umrisse einer didaktischen theorie. Nachr. f. Beratung u. Ausbild. in der Landwirt. 3:133-135. Dec.1950. 18 N11  
Germany.
- 41527 THE FARMER takes advice. Fortune 43(3):87-90,110. Mar.1951. 110 F772  
On the Doane Agricultural Service.
- 41529 FETTEROLF, H. C. After entitlement, what? A program initiated to serve young farmers. Agr. Educ. Mag. 23:200. Mar.1951. 275.8 Ag8  
On-the-farm training.
- 41529 FILENI, E. National fairs. (In Italian.) Colt. e Gior. Vinc. Ital. 96:329-330. Dec.15,1950. 16 C72
- 41530 FORDE, L. Agriculture and science in the National schools. Agr. Ireland 8:55,57. Mar.1951. 10.5 Ag8
- 41531 GARCÍA HERNÁNDEZ, L. Cómo organizar un programa de enseñanza vocacional agropecuario. Rev. de Agr. Com. e Indus. [Panama] 8(111/112):8-13. Nov./Dec.1950. 8 R3291  
Latin America.
- 41532 GARWOOD, J. Los agricultores de los Estados Unidos. Agrario 15(417):31-32;(418):40,42,44. Oct.-Nov.1950. 9.3 Ag85
- 41533 GEIER, Z. Agricultural & home economics education in the U. S. A.; a report on a study tour of America. (In Hebrew.) Tel-Aviv, Women's Internat. Zionist Organ., (WIZO) Agr. & Homemaking Instr. Dept., 1950. 38 p. 275.2 G27
- 41534 GEIGER. Praktischer unterricht an landwirtschaftsschulen. Allgäuer Bauernbl. 19:20-21. Jan.11, 1951. 18 AL53
- 41535 GILBERTSON, H. W. Educational exhibits how to prepare and use them. 8. Fairs & Expo. 3(24):22-26. Feb.1951. 310.8 F16
- 41536 GLASSER, M. A. Stepping onward at midcentury. Washington, U. S. Ext. Serv., 1951. 5 p. 1.913 C3St4  
Talk at the Extension Service Conference on Children and Youth, Dec. 13, 1950, U. S. Department of Agriculture, Washington, D. C.  
Midcentury White House Conference on Children and Youth, Washington, D. C., 1950.
- 41537 GREEN, E. P. County exhibits at the State level. Fairs & Expo. 3(24):18-19. Feb.1951. 310.8 F16
- 41538 GROS, A. Plans de production agricole et vulgarisation. B. des Engrais 22:142-143. Oct.1950. 57.8 B87  
Europe.
- 41539 GYNN, G. Learning from the land; farm adoption plan shows how agriculture fits into school work. Farmer & Stock-Breeder 65(3202):101. Mar.6,1951. 10 F228  
Great Britain.
- 41540 HÅKANSSON, R. Do we need farm editors? (In Swedish.) Lantmannen 35:53. Jan.20,1951. 11 L234
- 41541 HAMLIN, H. M. Community support is essential to financing agricultural education. Agr. Educ. Mag. 23:201. Mar.1951. 275.8 Ag8
- 41542 HANNAH, J. A. Beyond the call of duty. Ext. Serv. Rev. 22:19,31. Feb.1951. 1 Ex892Ex  
Opportunities of land-grant colleges and universities to teach the fundamental differences between our social-economic-political system and that of the Soviet Communists.
- 41543 HEUMANN, R. Report of [an] in-service trainee from Germany. Washington, U. S. Ext. Serv., 1951. 5 p. 1.913 O2R294  
International Farm Youth Exchange Project.
- 41544 HIGGS, C. Acme of British agriculture. Nev Commonwealth 21:254,256. Jan.1951. 280.8 C88  
Description of the Smithfield Show.
- 41545 HIRSCH, G. P. The library service in rural areas. Farm Econ. 6:231-241. Ref. 1950. 281.8 F223  
Great Britain.
- 41546 HOING, C. A. An unusual craft. Countryman [Burford] 43:43. Spring 1951. 281.28 C832  
Violin making.
- 41547 HOOVER, J. E. FBI head warns: Reds are after farmers too. Hoosier Farmer 36(2):21. Feb.1951. 280.82 H76
- 41549 INDIANA. PURDUE UNIVERSITY AGRICULTURAL EXTENSION SERV. Cooperation in agriculture; thirty-seventh annual report, 1949. Lafayette, 1950? 87 p. 275.29 In2



- 41549 IOWA. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. Financial report for the year ended June 30, 1950. Ames, 1950. 89 p. 276 Io9F
- 41550 JACKMAN, E. R. Good sense and public relations. Ext. Serv. Rev. 22:21,31. Feb. 1951. 1 Ex892Ex
- 41551 JENSEN, B. F. Establishment and organization of the Visalia school farm. Agr. Educ. Mag. 23:197,199. Mar. 1951. 275.8 Ag8
- California.
- 41552 KELLY, A. These things seem important. Ext. Serv. Rev. 22:27. Feb. 1951. 1 Ex892Ex
- Extension work.
- 41553 KNUTI, L. L. The nature of educational objectives. Agr. Educ. Mag. 23:203,212. Mar. 1951. 275.8 Ag8
- 41554 KOHLMEYER, J. B. How to solve the school problem. Farm Policy Forum 4(3):24-26. Mar. 1951. 281.8 F2274
- 41555 LAMEGO, A. Black pages of rural slavery. III. (In Portuguese.) Bras. Açucareiro 36:355-356. Sept. 1950. 65.8 B73
- 41556 LOFTHUS, J. L. Do the agricultural schools need a board? (In Norwegian.) Norsk Landbr. 17:48-49. Feb. 2, 1951. 11 N8122
- 41557 LOWE, J. M. Reimbursement policies in the States of the North Atlantic region. Agr. Educ. Mag. 23:198-199. Mar. 1951. 275.8 Ag8
- 41558 MCCLELLAND, C. M. Financing supervised farming programs. Agr. Educ. Mag. 23:202,207. Mar. 1951. 275.8 Ag8
- 41559 MEL'NIKOV, L. Dissemination of practices of leaders into agriculture. (In Russian.) Bol'shevik 27(21):56-63. Nov. 1950. 280.8 B633
- Communist party program for educating collective farmers in Ukraine.
- 41560 MOCKETT, J. T. Thriving folk school in Nova Scotia. Family Herald & Wk. Star 82(9):40,47. Mar. 1, 1951. 7 F21
- 41561 MOFFETT, B. W. Television is gaining popularity on farms. Farm & Gard. [Watertown] 1951:1,3. Mar. 10, 1951. 6 F234
- 41562 NATIONAL BROADCASTING CO. Your National Farm and Home Hour—a service to agriculture. New York? 1950. 15 p. 335 N215Y
- 41563 NICHOLS, M. Federal aid and local programs—who pays the fiddler—and for what? Agr. Educ. Mag. 23:196,209. Mar. 1951. 275.8 Ag8
- 41564 OLSON, R. L. Why the Winter Shows? Val. Farmer 1(12):13. Mar. 1951. 6 V244
- 41565 ORGANISATION FOR EUROPEAN ECONOMIC CO-OPERATION. Agricultural advisory services in European countries; report of a working party of experts. Paris, 1950. 232 p. 275.1 Or32
- 41566 OSLIKOVSKAYA, E. Problems of agricultural propaganda. (In Russian.) Sotsialist. Sel'sk. Khoz. 21(11):8-16. Nov. 1950. 281.8 So73
- 41567 PANEL on future of plantation hospitals. Plantation Health 15:20-22. Jan. 1951. 448.8 P69
- V. F. Bradfield, moderator; W. Goodhue, J. Milford, and P. H. Liljestrand.
- Hawaii.
- 41568 PERRON, M. A. Les débuts du journalisme agricole chez nous. Foyer Rur. [Montreal] 10(5):9,5,8. Feb. 1951. 7 F83
- Canada.
- 41569 POSADA FRANCO, R. La educación rural en Colombia. Agr. Trop. 7:45-46. Jan. 1951. 26 Ag8
- 41570 PUERTO RICO. PLANNING BOARD. Seventh six-year financial program for the years 1950-51 to 1955-56. Santurce, 1950. 68 p. 284.9 P96Ae
- Includes agencies dealing with agriculture.
- 41571 RÖHM, H. Die landjugenderziehung in Amerika. Nachr. f. Beratung u. Ausbild. in der Landwirt. 3:135-138. Dec. 1950. 18 N11
- 41572 ROKAHR, M. Presenting agricultural policy information to the people of the South. Washington, U. S. Ext. Serv., 1951. 7 p. 1.913 H3R63
- Paper at meeting of the Association of Southern Agricultural Workers, Memphis, Feb. 6, 1951.
- 41573 RYAN, A. Arrangement of courses at the agricultural schools. (In Norwegian.) Norsk Landbr. 17:49-50. Feb. 2, 1951. 11 N8122
- 41574 SHIDELER, F. It's your college. Colo. Rancher & Farmer 5(4):8. Feb. 24, 1951. 6 C714
- The Colorado Agricultural and Mechanical College.
- 41575 SKALLER, F. Agricultural education in Germany. Austral. Inst. Agr. Sci. J. 16:139-143. Dec. 1950. 23 Au74
- 41576 SMITHFIELD SHOW AND AGRICULTURAL MACHINERY EXHIBITION. Official catalogue, 1950. London, 1950. 368 p. 10 Sm6
- 41577 SPRAU, G. Advisory council aids in evaluation in Watseka community. Agr. Educ. Mag. 23:210,213. Mar. 1951. 275.8 Ag8
- Illinois.
- 41578 STROMMER, J. Der bauer und seine kammer. Österr. Bauernbündler 7(9):1-2. Mar. 3, 1951. 19 Os7
- 41579 THEBIS, R. Zeitgemässe landwirtschaftsschule ist nötig! Tech. f. Bauern u. Gärt. Ausg. A 2:615. Nov. 10, 1950. 58.8 T223
- 41580 TINDALL, C. Sure, any farmer can call the county agent! Mo. Rur. 92(4):6-7. Feb. 24, 1951. 6 R8891
- 41581 TRIPP, T. A. Witness of the rural church. Town & Country Church 69:1-2. Mar. 1951. 281.28 T66
- 41582 U. S. EXTENSION SERV. List of State extension correspondents handling information material. Washington, 1951. 2 p. 1.913 A2L694
- 41583 U. S. EXTENSION SERV. List of State extension directors. Washington, 1951. 2 p. 1.9 Ex892Ls
- 41584 U. S. EXTENSION SERV. Temporary list of slidefilms of the U. S. Department of Agriculture. Washington, 1950. 24 p. 1.913 M3T24
- 41585 VAN DER WESTHUIZEN, W. J. M. North Cape land needs a higher agricultural school. (In Afrikaans.) Landbouweekblad 32(1645):12. Jan. 24, 1951. 24 L232
- 41586 VAUGHAN, L. M. In-service training on questions of public policy. Washington, U. S. Ext. Serv., 1950. 12 p. 1.912 E2V46
- Summary of remarks before Regional Conference of Extension Workers on Public Policy Problems, Southern States, on Dec. 6, 1950, at Atlanta.
- 41587 VISSER, D. Information service informs Iowa farmers. Iowa Agr. 49(5):12,16. Dec. 1950. 6 Io9
- Iowa State College Information Service.
- 41588 WALDIE, J. S. L. Before the beginning. Agr. Prog. 25:9-14. 1950, 10 Ag86
- On the establishment of agricultural colleges in Great Britain.
- 41589 WARDLE, N. J. Community services of vocational agriculture groups in the north central and western regions. Iowa State Col. J. Sci. 25:378-382. Jan. 1951. 470 Io9
- Abstract of thesis (Ph. D.).
- 41590 WEIDRINGER-BEYERBERG. Der pädagogische aufbau einer unterrichtsstunde in einer landwirtschaftsschule. Nachr. f. Beratung u. Ausbild. in der Landwirt. 4:1-5. Jan. 1951. 18 N11
- Germany.
- 41591 WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Better rural living. W. Va. Agr. Col. Ext. C. 359,28 p. Dec. 1950. 275.29 W522C
- Report of activities and results of the Extension Service 1950.
- 41592 WILLIAMS, I. Agricultural education. In Stapledon, Sir R. G., ed. Farming and mechanised agriculture, ed. 4, p. 83-96. London, 1950. 10 F2227
- Great Britain.
- 41593 WILSON, G. R. County & home agents team gets the most results. Agr. Leaders' Digest 32(3):18. Mar. 1951. 275.28 Am3
- 41594 WORK, P. A bell rings out; the new rural church emerges from the old. Amer. Agr. 148:178,181. Mar. 17, 1951. 6 Am3

#### Leadership

- 41595 CLARK, R. C., JR. Factors associated with performance of 4-H club volunteer leaders in New York State, 1946-48. Iowa State Col. J. Sci. 25:182-184. Jan. 1951. 470 Io9
- Abstract of thesis (Ph. D.).
- 41596 RADIR, R. Guiding boys and girls in 4-H Clubs. Wash. State Col. Ext. B. 443,19 p. Feb. 1951. 275.29 W27P

#### Rural Organizations and Movements

- 41597 AAMO, E. S. The farm club activity. 4H work among rural youth. (In Norwegian.) Norsk Landbr. 17:64-67. Feb. 16, 1951. 11 N8122
- 41598 AGRICULTURAL CO-OPERATIVE ASSOCIATION. The farmer in business. London, 1950? 88 p. 280.2 Ag83F



- 41599 AGRICULTURAL CO-OPERATIVE ASSOCIATION. Year book 1950. London, 1950. 48 p. 280.29 Ag8
- 41600 ANKENY, H. D. Community service is their motto. *Country Gent.* 121(3):108-109. Mar. 1951. 6 C833 Future Farmers of America.
- 41601 BINYON, C. A. Growth of a horticultural society. In *Agricultural Co-operative Association. The farmer in business*, p.9-12. London, 1950. 280.2 Ag83F
- 41602 BROUCKÈRE, L. DE. L'avenir de la coopération de production. *Monde Coop.* (n.s.) 1951(1):1. Jan. 1951. 280.28 M74 France.
- 41603 CASTRO R., J. La conferencia técnica de cooperativas y el movimiento agrícola. *Agr. Trop.* 6(2):63-64. Feb. 15, 1950. 26 Ag8 Colombia.
- 41604 CLOUGH, R. S. The Missouri 4-H Foundation. *Bankers Mon.* 68(3):14,16,18. Mar. 1951. 284.8 B223
- 41605 CÔTÉ, R. R. L'exemple entraîne. *Forêt et Conserv.* 3:25-26. Jan. 1951. 99.8 F792 4-H Clubs in Quebec.
- 41606 CULLEN, A. D. The economic and legislative background. In *Agricultural Co-operative Association. The farmer in business*, p.12-19. London, 1950. 280.2 Ag83F Cooperatives.
- 41607 CULLEN, A. D. Future development of producer co-operation. In *Agricultural Co-operative Association. The farmer in business*, p.75-78. London, 1950. 280.2 Ag83F
- 41608 CURTZ, G. Aux jeunes agriculteurs—le chemin de l'avenir. *Inst. Prov. de Coop. Agr. B.* 3:16-18. Dec. 1950. 280.29 L62 Cooperation in Belgium.
- 41609 DECHANT, T. T. Farmers Union is strongest in its history. *Natl. Union Farmer* 1951:4. Jan. 1951. 281.8 N212
- 41610 DELUCQ. Organisations des C.E.T.A. [Centre d'Études Techniques Agricoles]. *Terre d'Occ* 33:65-68. Feb. 1951. 14 Ar5
- 41611 DORION, P. A. La coopération à l'île d'Orléans. *Terre de Chez Nous* 23:9,17. Feb. 28, 1951. 7 T27
- 41612 DUGGAN, I. W. Co-ops have strategic role in defense program. *News Farmer Coop.* 17(12):6. Mar. 1951. 166.2 N47
- 41613 DULLIN, A. L'essor de la coopération agricole en Charente-Maritime. *Liberation Paysanne* 8(300):5,8. Feb. 15, 1951. 14 L61
- 41614 DURAND-DROUHIN, J. La coopération agricole. *Monde Coop.* (n.s.) 1951(1):7. Jan. 1951. 280.28 M74
- 41615 ECHEVERRI CORTES, C. La obra de la Sociedad de Agricultores de Colombia. *Agr. Trop.* 6(2):5-6. Feb. 15, 1950. 26 Ag8
- 41616 ENGLER, R. Churches, other groups, work with FU for people. *Natl. Union Farmer* 1951:9. Jan. 1951. 281.8 N212
- 41617 ESHBACH, C. E. New England 4-H Clubs feature the consumer angle. *Ext. Serv. Rev.* 22:5,11. Jan. 1951. 1 Ex892Ex
- 41618 FISCHER, A. Cooperation and its opportunity. (In Portuguese.) *DEACOP, Inform. Coop.* 2(11):41-44. July 1949. 280.28 D34
- 41619 FOURIE, F. C. VAN N. The get-together idea gets things done; a South African's impressions of good-neighbourliness in the United States. *Farmer's Wk.* [Bloemfontein] 80:41,43. Jan. 3, 1951. 24 F225
- 41620 FUCHSLOCHER, R. El fomento del cultivo del trigo y de la ganadería preocupan a la "SAGO" [Sociedad Agrícola y Ganadera de Osorno]. *Agrario* 15(418):66,68. Nov. 1950. 9.3 Ag85
- 41621 GUILLEMOT, J. Le mouvement coopératif agricole en France. *Inst. Prov. de Coop. Agr. B.* 4:29-43. Feb. 1951. 280.29 L62
- 41622 HECKMAN, J. H. Team demonstrations in farmer cooperation. (Prelim.) *U. S. Farm Credit Admin. Coop. Res. & Serv. Div. C.E-35,8 p.* Feb. 1951. 166.2 C4926
- 41623 HULL, I. H. Modern farm co-ops are a 20th century product. *Hoosier Farmer* 36(2):27,42-43. Feb. 1951. 280.82 H76
- 41624 HUMPHREYS, G. The club member, an alert citizen. *W. Va. Agr. Col. Ext. Good Living Ser.* 18. Strengthening the Home Front. Lesson 1,6 p. n.d. 275.29 W522G
- 41625 ILLINOIS STATE GRANGE. Journal of proceedings, seventy-ninth annual session. Rockford, 1950. 100 p. 4 IL63
- 41626 JENKINS, D. Agricultural co-operative administration. In *Agricultural Co-operative Association. The farmer in business*, p.19-23. London, 1950. 280.2 Ag83F
- 41627 JONES, T. G. Financial and trading aspects. In *Agricultural Co-operative Association. The farmer in business*, p.61-68. London, 1950. 280.2 Ag83F
- 41628 KNAPP, J. G. Answering tall tales. *Calif. Citrog.* 36:178,196-198. Mar. 1951. 80 C125 Farmer cooperatives.
- 41629 KNAPP, J. G. Co-ops mobilize for defense. *News Farmer Coop.* 17(12):4,14. Mar. 1951. 166.2 N47
- 41630 KNAPP, J. G. Private business nature of co-ops, profit motive generally recognized. *Sunsweet Standard* 34(9):12-13. Feb. 1951. 286.83 Su7
- 41631 KRAUS, J. Weihnachten und jahreswechsel in einer ersten stunde. *Landwirt. Genossenschbl. f. Niederöster.* 48:1-3. Jan. 1, 1951. 280.28 L23 Policy for cooperative organizations.
- 41632 LEBEAU, O. R. Nominating directors varies with co-ops. *News Farmer Coop.* 17(12):3,19-20. Mar. 1951. 166.2 N47
- 41633 LOUWES, H. J. F.A.O. and rural co-operation. *Rev. Internatl. Coop.* 44:42-43. Feb. 1951. 280.28 In8B
- 41634 LOWRIE, A. W. Preliminary report on farm cooperative quiz contests. *Nulaid News* 28(10):17. Mar. 1951. 47.8 N917
- 41635 LUZ FILHO, F. The agricultural problem and the cooperative solution. (In Portuguese.) *DEACOP, Inform. Coop.* 2(11):3-4. July 1949. 280.28 D34 Brazil.
- 41636 MCCORMICK, C. J. For a better life to come. Washington, U. S. D. A., Off. Sec., 1951. 6 p. 1.91 A2M132 Talk at dedication of National 4-H Club Center, Washington, D. C., Feb. 14, 1951.
- 41637 MCDONALD, A. Free enterprise at stake. *Natl. Union Farmer* 1951:8,11. Jan. 1951. 281.8 N212 Activities of the Farmers Union in monopoly control.
- 41638 MCKAY, A. W. Co-op size, services, aims change lot in half century. *Sunsweet Standard* 34(9):7-8, 11. Feb. 1951. 286.83 Su7
- 41639 MCKAY, A. W. Fifty years of co-op growth. *Carolina Co-op.* 29(2):11,20,30. Feb. 1951. 72.8 N81
- 41640 MARCHANT, A. Les possibilités économiques de la coopération agricole dans les régions à l'Ouest de la Meuse. *Inst. Prov. de Coop. Agr. B.* 4:13-28. Feb. 1951. 280.29 L62
- 41641 MARTILLI, M. Rural cooperation in the U.S.A. (In Italian.) *Riv. di Econ. Agr.* 5:337-344. 1950. 281.8 R52 English summary.
- 41642 MESSERLY, W. T. Here's an experiment in democracy. *Iowa Bur. Farmer* 15:26-27,30. Jan. 1951. 275.293 Iowa Program and accomplishments of the Future Farmers of America Chapter at Webster City, Iowa.
- 41643 MICHIGAN STATE GRANGE. 1951 roster of Granges in Michigan. Niles, 1951. 42 p. 4 M589G
- 41644 MUDALIAR, A. P. Co-operatives and rural uplift. *Madras J. Co-op.* 42:247-252. Nov. 1950. 280.28 M26
- 41645 NATIONAL FARM RADIO FORUM. What has IFAP [International Federation of Agricultural Producers] accomplished? *Farm Forum Guide* 8(12):1-3. Feb. 19, 1951. 281.8 F2272
- 41646 NIESNER, W. Agricultural co-ops in Austria. *Grain Prod. News* 3(8):30-31. Feb. 1951. 286.81 G764
- 41647 NOVA SCOTIA. DEPT. OF AGRICULTURE AND MARKETING. Report of co-operative associations of Nova Scotia, 1949, by R. J. MacSween. Halifax, N. S., 1950. 19 p. 280.29 N85
- 41648 OKLAHOMA STATE GRANGE. Proceedings of the thirty-fifth annual session, held at Enid, Oklahoma, December 4, 5, 6 and 7, 1950. Enid, 1951. 56 p. 4 Ok42P
- 41649 PATTERSON, P. J. Working together for world understanding. *Colo. Rancher & Farmer* 5(5):5,16. Mar. 10, 1951. 6 C714 4-H Club work.
- 41650 PATTON, J. G. Social organization: the challenge of the new half century. *Natl. Union Farmer* 1951:3. Jan. 1951. 281.8 N212 On the Farmers Union.
- 41651 PONCE, A. L. El cooperativismo, factor de progreso económico y social de los pueblos. *Coopecarril* 25(306):12-18. (To be cont.) Dec. 1950. 280.28 C7862



41652 RAUSTADT, R. P. Strength through unity discovered in building 4-H hall. Ext. Serv. Rev. 22:28. Feb. 1951. 1 Ex892Ex

Scott County 4-H hall at Jordan, Minn.

41653 RIPPETEAU, M. What makes co-ops run? Ill. Agr. Assoc. Rec. 29(3):20-21. Mar.1951. 6 IL62

41654 ROTH, G. Farmers breathe life into dying town. News Farmer Coop. 17(12):12-13. Mar.1951. 166.2 N47

Activities of the Nunda Cooperative Association, South Dakota.

41655 SCHENCK, H. E. Of farmers, by farmers—and for the people—that's Farm Bureau policy. Hoosier Farmer 36(2):6. Feb.1951. 280.82 H76

41656 SCHIFANI, C. Rural cooperatives in Sicily (after the First and Second World Wars). (In Italian.) Riv. di Econ. Agr. 5:67-92. 1950. 281.8 R52  
English summary.

41657 SCHMITT, F. Nochmals: Badische Landwirtschaftliche Berufsgenossenschaft. Bad. Landwirt. Wchnbl. 118:18-19. Jan.13,1951. 18 B142

41658 SIQUEIRA, N. DE. Cooperative conscience. (In Portuguese.) DEACOOP, Inform. Coop. 2(11):39-41. July 1949. 280.28 D34

41659 SMITH, J. G. Learn to do by doing. Future Farmer 23(6):18-19. Jan.1951. 4 F983

Activities of the Shamrock FFA Chapter in Texas.

41660 SMITH, L. P. F. Farmers' co-operation in Sweden. Agr. Ireland 8:64-65. Mar.1951. 10.5 Ag8

41661 SMITH, L. P. F. Swedish co-operatives. Agr. Ireland 8:31,33. Feb.1951. 10.5 Ag8

41662 SMITH, R. FU takes a place at world conference tables. Natl. Union Farmer 1951:7. Jan.1951. 281.8 N212

41663 SOCIEDAD DE AGRICULTORES DEL VALLE DEL CAUCA. Informe, período: enero a dbr. de 1950. Rev. Agr. y Ganad. 12(131):17-18,20-22. Dec.1950. 9.4 R327

41664 SOCIEDADE DE AGRONOMIA DO RIO GRANDE DO SUL. Report of the president as of 30/7/50. (In Portuguese.) Rev. Agron. [Porto Alegre] 14:155-160. July/Dec.1950. 9.2 R325

41665 SPANTON, W. T. The F. F. A. chartered by Congress as a private corporation. Future Farmer 23(6):20. Jan.1951. 4 F983

41666 STREETER, J. R. Top farmers and good farms are plentiful in Kingfisher County [Oklahoma]. Farmer-Stockman 54(3):9,47. Mar.1951. 6 Ok45  
American Farmer degree awarded to the FFA chapter.

41667 SWAIN, V. S., and GRIMSLEY, C. J. Putting the 4-H pledge to work. N. C. Agr. Col. Ext. Club Ser. 71,6 p.-folder. Nov.1950. 275.29 N811C

41668 TROCLET, L. E. La coopération à Ceylan. Monde Coop. (n.s.)1951(1):6. Jan.1951. 280.28 M74

41669 ULMER, W. C. Farmers organization. Agr. Educ. Mag. 23:214. Mar.1951. 275.8 Ag8

41670 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. 4-Her's work for a better world, by J. Sikes, J. D. Tonkin, and others. Washington,1951. 4 p. 1.914 R2R11

41671 U. S. EXTENSION SERV. Chronological notes regarding the Extension Subcommittee on 4-H Club Work, by R. A. Turner. Washington,1951. 7 p. 1.913 F3C46

41672 U. S. EXTENSION SERV. Plan of organization for Extension Subcommittee on 4-H Club Work. Washington?1951. 1 p. 1.913 F3P69

41673 U. S. FARM CREDIT ADMIN. Publications on agricultural cooperation. U. S. Farm Credit Admin. C. A-23,rev.,23 p. Feb.1951. 166.2 C4922

41674 VALDES FONTECILLA, M. La unidad de los elementos agrarios será cada vez más firme e inquebrantable. Agrario 15(418):6,8,26. Nov.1950. 9.3 Ag85  
Chile.

41675 VERBAND OSTSCHWEIZERISCHER LANDWIRTSCHAFTLICHER GENOSSENSCHAFTEN. 64. jahresbericht umfassend den zeitraum vom 1. januar bis 31. dezember 1950. Winterthur,1950. 51 p. 280.29 V58J

41676 WADE, J. C. Problems of buying. In Agricultural Co-operative Association. The farmer in business, p.51-54. London,1950. 280.2 Ag83F  
Farmer consumer cooperatives.

41677 WASHINGTON STATE GRANGE. Roster year 1951. Olympia,1951. 151 p. 4 W274R

41678 WILD, L. J. The Royal Agricultural Society of New Zealand. New Zeal. Studmasters' Annu. Rev. 2:16-17. Sept.1950. 49.7 N48

41679 WILEDEN, A. F. Trends in rural organizations in Wisconsin. Wis. Agr. Col. Ext. Spec. C.,24 p. Jan. 1951. 275.29 W75S

41680 YATES, W. From classroom to the field; Future Farmers of America carry on projects at home. Future Farmer 23(7):16. Feb.1951. 4 F983

## RURAL SOCIAL PSYCHOLOGY

41681 BROWER, S. L., and ROSKELLEY, R. W. A study of attitudes of Utah farm people toward the Cooperative Extension Service. Utah. State Agr. Col. Ext. B. 209,9 p. Aug.1950. 275.29 Utl

## TRADE, FOREIGN AND INTERNATIONAL

41682 AHMED, R. Indo-Pakistan trade with special reference to jute. Pakistan Econ. J. 2(2):52-65. Dec. 1950. 280.8 P174

41683 ALGERIA. DIRECTION DES DOUANES. Documents statistiques réunis par l'Administration des Douanes sur le commerce de l'Algérie, année 1947. Alger, 1950. 417 p. 270 A13D

41684 ANGOLA. REPARTIÇÃO TÉCNICA DE ESTATÍSTICA GERAL. Comércio externo, volume I. Comércio por mercadorias e países 1949; Commerce extérieur, volume I. Commerce par marchandises et pays. Luanda, 1950. 600 p. 270 An4E

41685 ARGENTINA. DIRECCIÓN DE LABORATORIOS. Destacada calidad industrial de las exportaciones de trigo por los puertos de Mar del Plata y Quequen. Argentina. Dir. Nac. de Granos y Elevadores. B. Inform. 11:169-170. Sept.30,1950. 286.81 Ar3

41686 BAEHR, H. A., and DAY, G. H. Latin American markets for U. S. wheat and dairy products. Foreign Agr. 15:53-56. Mar.1951. 1.9 Ec7Ffor

41687 BARARI, B. Three years of Indo-Pakistan trade—a review. Pakistan Econ. J. 2(2):78-86. Dec.1950. 280.8 P174

41688 BEGUM, N. S. Indo-Pakistan trade relations. Pakistan Econ. J. 2(2):66-77. Dec.1950. 280.8 P174

41689 BENMORE, C. H. The outlook for South African canned goods in Britain. Food Indus. So. Africa 3(9):49,51. Jan.1951. 389.8 F7372

41690 BRAZIL. SERVIÇO DE ESTATÍSTICA ECONÔMICA E FINANCEIRA. Comércio exterior do Brasil, por mercadorias, segundo os países, Vol. II, 1946-1947 [Foreign trade of Brazil by products and countries. v. II, 1946-1947]. Rio de Janeiro,1950. 268 p. 255.3 F292

41691 BRIZI, A. Agriculture and the liberalization of trade. (In Italian.) Riv. di Econ. Agr. 5:12-21. 1950. 281.8 R52  
English summary.

Europe.  
41692 BURMEISTER, G. Pears and the export market. Pear Growers League, Annu. 1950:11,13,15. 286.3939 P31

41693 BYRLEDIANU, A. Foreign trade of Rumania. (In Russian.) Vnesn. Torg. 20(11):23-28. Nov.1950. 286.8 F762

Includes agricultural products.

41694 CABALLERO, J. M. Nuestras exportaciones de brandy, licores y otras bebidas. Inform. Com. Españ. 207:1532-1537. Nov.1950. 286.8 In3  
Text in English, p. 1552-1554.

41695 CAMPBELL, A. J. Trade in coarse grains; export opportunity for Australian producers. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 4(1):15-17. Jan.1951. 281.9 Au73

41696 COSTA RICA. DIRECCION GENERAL DE ESTADISTICA. Estadísticas de importación año 1949. San José,1950. 19 p. 254 C82E1

41697 DENMARK. STATISTISKE DEPT. Danmarks vareindførsel og -udførsel i året 1949; Importation et exportation du Danemark en 1949. København,1951. 262 p. 257.1 St2T

41698 D'EWART, W. How trade agreement program has injured the wool industry. Natl. Wool Grower 41(3):15-16. Mar.1951. 45.8 N21N

41699 DEY, B. K. Indo-Pakistan trade. Pakistan Econ. J. 2(2):40-51. Dec.1950. 280.8 P174

41700 DOMINICAN REPUBLIC. DIRECCION GENERAL DE ESTATISTICA. Exportación de la República Dominicana, 1950. Ciudad Trujillo,1951. 288 p. 254.8 D7171E



- 41701 DUBRULLE, M., and ROBICHEZ, L. L'Union Lainière Européenne. (Extr.) France. Comt. Cent. de la Laine. B. Lainier (n.s.) 787:2-5. Dec.25,1950. 286.3459 F84B
- 41702 EGYPT. MINISTRY OF FINANCE. STATISTICAL ADMIN. Annual statement of foreign trade 1946 & 1947. Cairo,1950. 1266 p. 270 Eg9C  
Includes agricultural products.
- 41703 FRANCIS, J. H. National Board [of Fur Farm Organizations] urges Legislative Committee for import control on furs. Black Fox Mag. & Mod. Mink Breeder 34(11):9-11,23-26. Mar.1951. 410 B56
- 41704 GARDINER, J. G. Bi-lateral trading goes back to 1932. Farm & Ranch Rev. 47(2):8-9. Feb.1951. 7 F223
- 41705 GIBSON, J. M. Australian butter and the United Kingdom market. Farm Econ. 6:227-231. 1950. 281.8 F223
- 41706 HARRIS, SIR A. T. South African ships are helping our food export campaign. Food Indus. So. Africa 3(9):65,67. Jan.1951. 389.8 F7372
- 41707 HEUSER, O. E. Die wettbewerbsbedingungen der westdeutschen landwirtschaft. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:75-76. Jan.18,1951. 18 L2346
- 41708 HUSAIN, A. F. A. Pakistan system of preferential duties. Pakistan Econ. J. 2(2):99-114. Dec.1950. 280.8 P174  
Pakistan.
- 41709 INDIAN TARIFF BOARD. Report on the continuance of protection to the sugar industry, v. 1. Bombay,1950. 249 p. 285.365 In2
- 41710 KRISTIANSON, B. H. First year of the International Wheat Agreement. N. Dak. Agr. Expt. Sta. Bimonth. B. 13:113-114. Jan./Feb.1951. 100 N813B
- 41711 LAMBOOY, B. Selling South African canned goods to Italy. Food Indus. So. Africa 3(9):58,61,63. Jan.1951. 389.8 F7372
- 41712 LINDE, S. B. VON. Sweden's trade with Italy 1949-1951. (In Swedish.) Sweden. Komkol. Kom. Meddel. 38:12-18. Jan.1951. 257.3 K832K  
Includes farm products.
- 41713 MCLANE, P. V. New Zealand wool sales eased financial position of country. Foreign Trade 9:302-304. Feb.24,1951. 286.8 C162
- 41714 MAHMOOD, A. N. M. Jute and inter-dominion trade. Pakistan Econ. J. 2(2):87-98. Dec.1950. 280.8 P174  
India and Pakistan.
- 41715 MEDICI, G. New tariff proposals. (In Italian.) Riv. di Econ. Agr. 5:3-11. 1950. 281.8 R52  
English summary.  
Italy.
- 41716 MEER, H. E. VAN DER. Trade in agricultural seeds. (In Dutch.) Nieuwe Veldbode 17:274-275. Jan.25, 1951. 12 V542N  
Netherlands.
- 41717 MULGRUE, J. Peanuts in world trade. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 4(1):26-28. Jan. 1951. 281.9 Au73
- 41718 NATIONAL FARM RADIO FORUM. Wanted—new markets; how can the market for farm produce be expanded? Farm Forum Guide 8(7),4 p. Jan.8,1951. 281.8 F2272  
Exports and new uses as outlets.
- 41719 NETO, J. C. M. The wheat battle: contraband again. (In Portuguese.) Orientação Econ. e Financ. 8(89):21-23. Nov.1950. 280.8 Or42  
Brazil.
- 41720 NOMINE, H. Westeuropäische butterchronik. Bas-Rhin Agr. 6:89. Feb.24,1951. 14 B29  
Trade.
- 41721 O'SHEA, A. P. The future of N. Z.'s stud stock export trade. New Zeal. Studmasters' Annu. Rev. 2:13-14. Sept.1950. 49.7 N48
- 41722 PANEK. Erfreulicher aufstieg im export. Tierzüchter 2:653-654. Dec.20,1950. 49 T445  
Livestock, Germany.
- 41723 PAPI, G. U. International trade in agricultural products and the desirable minimum to meet requirements. (In Italian.) Agenzia Romana Note e Inform. Agr. 14:1-3. Feb.23,1951. 281.8 Ag3
- 41724 POWELL, C. B. Canada today—an open, ready market for U. S. frozen foods. Quick Frozen Foods 13(8): 110-111. Mar.1951. 389.8 Q4
- 41725 PRAETORIUS, F. K. Deutschlands biereexport am jahresanfang. Brauwelt 1951:33-34. Jan.18,1951. 390.8 B732
- 41726 PRINS, M. On difficulties and results. (In Dutch.) Groenten en Fruit 6:469-470. Jan.4,1951. 80 G89  
Chiefly on the export of fruit and vegetables from the Netherlands.
- 41727 RHODES, F. M. El control de las exportaciones en los EE. UU. Argentina. Dir. Gen. de Fomento Agr. B. de Prod. y Fomento Agr. 2(16):145-147. Oct. 1950. 9 Ar35
- 41728 RIEUL-PAISANT. Les débouchés extérieurs des dattes d'Afrique du Nord. Marchés Colon. 7:362-363. Feb.3,1951. 286.8 M33
- 41729 SEBELIN, C. Abfertigungsbedingungen der pflanzenbeschau für kartoffelexporte. Kartoffelwirtschaft 3:492-494. (To be cont.) Dec.22,1950. 286.83 K14
- 41730 SPAIN. DIRECCIÓN GENERAL DE ADUANAS. Estadística del comercio exterior de España, 1949. Madrid,1950. 811 p. 263 C76E
- 41731 SWITZERLAND. EIDGENÖSSISCHE OBERZOLL-DIREKTION. Jahresstatistik des aussenhandels der Schweiz, 1950, v. 1. Bern,1950. 270 p. 262 Z7S
- 41732 SYLVEN, M. Increased export of Lowland cattle. (In Swedish.) Lantmannen 35:47-48. Jan.20,1951. 11 L234
- 41733 TASMANIA. MEAT BOARD. Report for year 1949-50. Tasmania,1950. 7 p. 50.9 T18  
Contains trade statistics.
- 41734 TINDALE, G. B. Apples and pears; developments in Victorian export trade. Victoria. Dept. Agr. J. 48:558-560. Dec.1950. 23 V66J
- 41735 TURKEY. OFF. CENTRAL DE STATISTIQUE. Statistique annuelle du commerce extérieur, 1949; Partie: 3, Commerce special. Ankara,1950. 138 p. 269.9 St2Ca
- 41736 TYSSER, H. F. Increased international competition for oranges. Farmer's Wk. [Bloemfontein] 80:43. Jan.10,1951. 24 F225
- 41737 U. S. BUR. OF THE CENSUS. Schedule A, statistical classification of commodities imported into the United States with rates of duty and tariff paragraphs and code classification for countries (schedule C) United States customs districts and ports (schedule D) and flag of vessel registry (schedule J) August 1, 1950. Washington,1950. 294 p. 157.91 Sch2
- 41738 U. S. DEPT. OF AGRICULTURE. Seeds, spices, and herbs: U. S. imports, reexports, and net imports, calendar years, average 1935-39, annual 1950 to date. Washington,1950. 9 p. 1.90 A2Se3  
Includes coffee, tea, and cocoa trade statistics.
- 41739 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Customers across the border; the farmer's stake in United States-Canadian trade. U. S. D. A. Agr. Inform. B. 35,8 p. 1951. 1 Ag84Ab
- 41740 U. S. TARIFF COMMISSION. Harsh or rough long-staple cotton and extra-long-staple cotton; reports to the President on supplemental import quotas (1950) with appendixes, proclamations by, the President. U. S. Tariff Comm. Rpt. (ser.2)171,17 p. 1951. 173 T17Rs
- 41741 VALAY, G. L'organisation des marchés agricoles Européens. Rev. de Lég. Agr. 3:213-217. Nov./Dec.1950. 281.8 R325
- 41742 VEGA ALCALA, J. Notas sobre el mercado vinico internacional. Inform. Com. Españ. 207:1542-1544. Nov.1950. 286.8 In3  
Text in English, p. 1554-1555.
- 41743 VERBELEN, L. Le commerce extérieur des textiles en 1950. Monit. Textile 13:135,137-138. Feb. 1951. 304.8 M74  
Belgium.
- 41744 WITT, L. Changes in our international trade; what do they mean? Mich. State Col. Agr. Ext. Mich. Farm Econ. 97:3-4. Jan.1951. 275.29 M58A



## FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 41745 BENGGOA, J. M. Estimación de la prevalencia de enfermedades carenciales en el medio rural de Venezuela. Arch. Venezol. de Nutr. 1:289-304. Ref. Dec. 1950. 389.8 Ar22  
English summary.
- 41746 BENGGOA, J. M. Geriatria y nutrición. Arch. Venezol. de Nutr. 1:237-247. Ref. Dec. 1950. 389.8 Ar22  
English summary.
- 41747 BILLIG, H. Gesundes leben durch vollwertige nahrung. Nat. u. Nahr. 4(19/20):1-2. Oct. 1950. 80 N218
- 41748 BING, F. C. Nutritional aspects of low-sodium diets. Natl. Canners Assoc. Inform. Let. 1325:78-81. Ref. Feb. 28, 1951. 389.9 N214In
- 41749 BURCH, H. B., and others. Nutrition survey and tests in Bataan, Philippines. J. Nutr. 42:9-29. Ref. Sept. 11, 1950. 389.8 J82
- J. Salcedo, Jr., E. O. Carrasco, C. L. Intengan, and A. B. Caldwell, joint authors.
- 41750 CAMPBELL, R. Let's have nourishing school lunches. Food & Nutr. News 23(3):3. Dec. 1950. 389.8 F7332
- 41751 CHOPE, H. D., and DRAY, S. The nutritional status of the aging; public health aspects. Calif. Med. 74 (2):105-107. Feb. 1951. 448.8 C12
- 41752 CLAYTON, C. B. Nutrition high lights. Pract. Home Econ. 29:81,134. Feb.-Mar. 1951. 321.8 H752
- 41753 DÍAZ BARRIGA, J. Nutrición en la Republica Mexicana. Medicina; Rev. Mex. 31(619,sup.):1-7. Jan. 10, 1951. 448.8 M4693
- 41754 DREISBACH, M. B., and HANDY, E. School lunch management in relation to nutritive value, cost, and acceptance of foods served. U. S. D. A. PA-114,39 p. Ref. Jan. 1951. 1 Ag84Pro
- 41755 DUNN, M., and VOLLMER, E. Cakes, pies, yeast rolls, and bread. N. Y. Agr. Col. Ext. Cornell 4-H Club B. 93,16 p. Sept. 1950. 275.29 N48Cn
- 41756 ECKBLAD, I. Let's cook; 4-H food preparation. unit I. Wash. State Col. Ext. B. 438,23 p. Feb. 1951. 275.29 W27P
- 41757 ECKBLAD, I. Let's make bread and rolls; 4-H baking unit II. Wash. State Col. Ext. B. 441,7 p. Jan. 1951. 275.29 W27P
- 41758 IRWIN, M. I., and CRAMPTON, E. W. The use of chromic oxide as an index material in digestion trials with human subjects. J. Nutr. 43:77-85. Jan. 10, 1951. 389.8 J82
- 41759 KLAVEREN, F. W. VAN. The interrelationship of nutritional factors. Indian J. Pharm. 12:301-310. Ref. Oct. 1950. 396.8 In23  
Vitamins in human nutrition.
- 41760 LIENDO COLL, P. Evaluación clínica de los estados de nutrición. Arch. Venezol. de Nutr. 1:249-282. Dec. 1950. 389.8 Ar22  
English summary.
- 41761 LIENDO COLL, P., and BENGGOA, J. M. Hojas de balance de alimentos de Venezuela en 1949. Arch. Venezol. de Nutr. 1:305-313. Dec. 1950. 389.8 Ar22  
English summary.
- 41762 MCBEE, M., MOSCHETTE, D. S., and TUCKER, C. The hemoglobin concentrations, erythrocyte counts, and hematocrits of selected Louisiana elementary school children. J. Nutr. 42:539-556. Ref. Dec. 11, 1950. 389.8 J82
- 41763 MCCOLLUM, E. V. Nutrition. Indus. & Engin Chem. 43:567-569. Mar. 1951. 381 J825  
Research.
- 41764 MCMAHON, G. Dietary consultation—a service for small institutions. VII. Amer. Dietet. Assoc. J. 27:114-118. Ref. Feb. 1951. 389.8 Am34
- 41765 MASUR, J., and WERNER, J. H. The Clinical Center of the National Institutes of Health. II. Facilities for food preparation and food service. Amer. Dietet. Assoc. J. 27:106-113. Feb. 1951. 389.8 Am34
- 41766 MEYER, F. O. W. Über den inneren wert eines lebensmittels und seine ermittlung. Nat. u. Nahr. 4(19/20):7-9. Oct. 1950. 80 N218
- 41767 MOORE, N. S., and SHAW, C. R. Nutritional status survey, Groton Township, New York. V. Amer. Dietet. Assoc. J. 27:94-97. Feb. 1951. 389.8 Am34
- 41768 NATIONAL ASSOCIATION OF MARGARINE MANUFACTURES. The role of fats in nutrition. Washington, 1950. 19 p. Ref. 389.1 N2174R
- 41769 NELSON, P. E., JR. The Iowa School Lunch Program: a theoretical and quantitative analysis. Iowa State Col. J. Sci. 25:313-315. Jan. 1951. 470 to9  
Abstract of thesis (Ph. D.).
- 41770 PIERANGELI, E. D. U., and LOPEZ GIL, A. L. Un ensayo de educación alimentaria realizado en la primera Exposición Nacional de Salud Publica. Asoc. Argentina de Dietologia. Rev. 7:225-236. Oct./Dec. 1949. 389.9 As5  
Argentina.
- 41771 PORTIS, S. A., and MASON, F. E. The role of diet in the prevention of fatigue. Food & Nutr. News 23(3):1,4. Dec. 1950. 389.8 F7332
- 41772 PRICE, W. A. Nutrition and physical degeneration. 16. Amer. Acad. Appl. Nutr. Mon. Newslet. J. 4(2): 3-7. Feb. 1951. 389.9 Am352
- 41773 SCHLUMBERGER, H. Nahrungs- und ernährungsnot. Nat. u. Nahr. 4(21/22):22. Nov. 1950. 80 N218
- 41774 SHELOR, E., and SIEWERT, S. W. Thawing and cooking frozen products. Ga. Agr. Expt. Sta. Press B. 629,2 p. Feb. 23, 1951. 100 G29P
- 41775 SNYDERMAN, S. E., and others. Observations on an unknown dietary factor essential for human growth. J. Nutr. 42:31-44. Ref. Sept. 11, 1950. 389.8 J82  
L. E. Holt, Jr., R. L. Nemir, L. P. Guy, R. Carretero, and K. C. Ketron, joint authors.
- 41776 TINSLEY, W. V. Promote nutrition now. Fore-cast Home Econ. 67(3):31,48. Mar. 1951. 321.8 F76
- 41777 TRÉMOLIERES, J., and VINIT, F. Enquête sur les dépenses de consommation dans divers milieux sociaux de Marseille. Inst. Natl. d'Hyg. B. 6:73-98. Jan./Mar. 1951. 449.9 P21  
Investigations made by Mme. Dejean and collaborators.
- 41778 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Family fare, food management and recipes. U. S. D. A. Home & Gard. B. 1, slightly rev., 96 p. Dec. 1950. 1 Ag84Hg
- 41779 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Root vegetables in everyday meals. Slightly rev. U. S. D. A. L. 294,8 p.-folder. Nov. 1950. 1 Ag84L  
Formerly AIS-42.
- 41780 VEEN, A. G. VAN. Nutrition studies in Indonesia 1850-1950. Doc. Neerland. et Indonesica de Morbis Trop. 2:374-383. Ref. Dec. 1950. 448.8 D65
- 41781 WILSON, A. M. Food and health; does fortification improve the diet? Today's Health 29(3):32-33,67. Mar. 1951. 449.8 H993
- 41782 WOODS, R. Dietary interrelationships: I. Anti-anemia factors and the biological methylating agents. Borden's Rev. Nutr. Res. 12:11-22. Ref. Feb. 1951. 389.8 B64

## FOOD HABITS

- 41783 ABRAHAM, M. Our dietary habits. New Zeal. Dept. Health. Health 2(6):8. Dec. 1950. 449.8 H342  
New Zealand.
- 41784 BENGGOA, J. M. Encuesta alimentaria en familias de las clases obrera y media de Caracas. Arch. Venezol. de Nutr. 1:347-366. Dec. 1950. 389.8 Ar22  
English summary.
- 41785 HIPSLEY, E. H. The feeding of New Guinea infants. Austral. Inst. Anat. Food & Nutr. Notes & Rev. 7:81-86. (To be cont.) Sept./Oct. 1950. 389.9 Au73
- 41786 HORNE, L. Food in other lands: Trinidad. Gt. Brit. Min. Food. Food & Nutr. 5(11):6-8. Dec. 15, 1950. 389.9 G79F

## NUTRITIVE AND VITAMIN CONTENT

- 41787 BIGGAR, H. H. Meat—a diet of necessity. Corn Belt Livestock Feeder 3(5):18-19. Feb. 1951. 280.38 C81
- 41788 BOLLER, A. E., and CAMPBELL, R. The progress and promise of meat research. Cattleman 37 (10):32-33,36. Mar. 1951. 49 C29  
Nutritive value.



- 41789 CARTAYA, J. A. Enriquecimiento de cereales. Arch. Venezol. de Nutr. 1:401-421. Ref. Dec.1950. 389.8 Ar22
- 41790 COFER, E. Vitamin B in family meals. W. Va. Agr. Col. Ext. Good Living Ser. 18. Strengthening the Home Front. Lesson 4,6 p. n.d. 275.29 W522G
- 41791 CREMER, H. D., and LANG, K. Die bedeutung der topinambur für die ernährung des menschen. Z. f. Lebensmtl.-Untersuch.-u. -Forsch. 91:405-412. Dec. 1950. 384 Z39
- 41792 GEYER, H. Verachtet die kartoffel nicht! Kartoffelwirtschaft 3:504. Dec.29,1950. 286.83 K14 Nutritive value.
- 41793 GRISWOLD, R. M. Effect of heat on the nutritive value of proteins. Amer. Dietet. Assoc. J. 27:85-93. Ref. Feb.1951. 389.8 Am34
- 41794 HORTON, D. H. Make friends with members of the vitamin family. Poultry Indus. [Boston] 55(2):21,30. Feb.1951. 47.8 N44
- 41795 JAFFE, W. G., BUDOWSKI, P., and GORRA, G. El valor vitamínico de algunas leguminosas venezolanas. Arch. Venezol. de Nutr. 1:373-378. Dec.1950. 389.8 Ar22 English summary.
- 41796 JAFFÉ, W. G., BUDOWSKI, P., and GORRA, G. El valor vitamínico de los malces venezolanos. Arch. Venezol. de Nutr. 1:367-372. Dec.1950. 389.8 Ar22 English summary.
- 41797 JONES, R. E. Nonfat dry milk solids, dry whole milk, food for children. Chicago, Amer. Dry Milk Inst., 1950. 15 p. 389.1 J72
- 41798 KON, S. K., and MAWSON, E. H. Human milk; wartime studies of certain vitamins and other constituents. London, Stationery Off., 1950. 188 p. (Med. Res. Council (Gt. Brit.) Spec. Rpt. Ser. No. 269) 386.3 K83
- 41799 KRAUSS, W. E. The nutritional value of milk and dairy products. Certif. Milk 26(2):8-11,16. Feb.1951 44.8 C33
- 41800 LAL, G. B. No substitute for milk. Pure Milk 25(2):4-5. Feb.1951. 280.28 P97 Nutritive value.
- 41801 LANTZ, E. M. Ascorbic acid in peaches from southern New Mexico. Food Res. 16:77-79. Jan./Feb. 1951. 389.8 F7322
- 41802 MONCEAUX, R. H. Le beurre d'arachides et ses qualités biologiques. Oléagineux 6:147-150. Mar. 1951. 77.8 OL2
- 41803 MULLER, H. Les jus de fruits, source d'énergie et de santé. Fruit Belge 19(113):6-8. Jan.1951. 80 F9493
- 41804 NATIONAL RESEARCH COUNCIL. FOOD AND NUTRITION BOARD. COMMITTEE ON CEREALS. Ten years of enrichment. (Condensed.) Amer. Baker 19(3):19 22,24,58,60-62,65. Mar.1951. 389.8 Am36 Bread and flour.
- 41805 NISSEN-DREJER, R. Kålrot [Kohl-rabi]. Oslo, Studieselskapet for Kosthold og Helse, 1950. 12 p. 389.1 N63
- 41806 NISSEN-DREJER, R. Tomat [Tomato]. Oslo, Studieselskapet for Kosthold og Helse, 1950. 15 p. 389.1 N63T
- 41807 PEARSON, A. M., and others. Vitamin losses in drip obtained upon defrosting frozen meat. Food Res. 16:85-87. Ref. Jan./Feb.1951. 389.8 F7322 J. E. Burnside, H. M. Edwards, R. S. Glasscock, T. J. Cunha, and A. F. Novak, joint authors.
- 41808 PROCTOR, B. E. Nutrition and food technology. Nutr. Rev. 9:33-34. Feb.1951. 389.8 N953
- 41809 PÜTZ, H. Milch mit honig; kinderaufsätze einer landschule—allen müttern zugebracht. Bienenwarte 3:311. Dec.25,1950. 424.8 B4722
- 41810 SAINT-VIANCE, MME. DE. La femme et l'abeille. Cahiers Apic. 1950:17. Jan./Mar.1950. 424.8 C73 English summary, p. 69. Honey as food for infants.
- 41811 SALCEDO, J., JR., and others. Artificial enrichment of white rice as a solution to endemic beriberi; report of field trials in Bataan, Philippines. J. Nutr. 42: 501-523. Dec.11,1950. 389.8 J82 M. D. Bamba, E. O. Carrasco, G. S. Chan, I. Concepcion, F. R. Jose, J. F. DeLeon, S. B. Oliveros, C. R. Pascual, L. C. Santiago, and R. C. Valenzuela, joint authors.
- 41812 STANTON, B. R. Nutritive value of soup. Chem. & Indus. 1951:105-106. Feb.10,1951. 382 M31C
- 41813 SWANSON, P. P. Ice cream is nutritious. Internatl. Assoc. Ice Cream Mfr. Rpt. Proc. 46(2):31-41. Ref. 1950. 389.9 Iu83
- 41814 TALLARICO, G. Solar passport even for livestock products? (In Italian.) Gior. di Agr. 61:36. Feb. 4,1951. 16 It1G Increased vitamin content of dairy products from sunny countries such as Italy.
- 41815 TSUCHIYA, Y. Physiological studies on the vitamin C content of marine algae. Tohoku J. Agr. Res. 1:97-102. Mar.1950. 22.5 T574
- 41816 WILSON, S. V., and DUBOIS, R. Caloric chart for some everyday foods. N. C. Agr. Col. Ext. Misc. Pam. 130,4 p. Nov.1950. 275.29 N811M

## MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 41817 ALVSBORGS LANS SÖDRA HUSHÄLLNINGS-SÄLLSKAP. Report of the Alvsborg Province Southern Agricultural Association for the year 1949. (In Swedish.) Alvsborgs Läns Södra Hushållsskr. 1950(1):19-192. 11 AL8K
- 41818 ASSAM. DEPT. OF AGRICULTURE. Annual report for the year ending 31st March 1949. Shillong, 1950. 2 v. 22 An7Rp
- 41819 BAWDEN, F. C. The multiplication of viruses. Sci. Prog. [London] 39(153):1-12. Jan.1951. 472 Sci22
- 41820 BOCETA DURAN, V. Proyecto de reorganización del Servicio Agropecuario. Madrid. Serv. Agropecuario. P. 8,184 p. May 1950. 15 M262
- 41821 BORISOV, S. N. Carbon dioxide in rodent control at refrigerating plants. (In Russian.) Veterinarifá 27(9):48-50. Sept.1950. 41.8 V6426
- 41822 BORRERO H., J. I. Las aves y la agricultura. Agr. Trop. 7:41-44. Jan.1951. 26 Ag8
- 41823 BRANNAN, C. F. Democracy must go forward. Ext. Serv. Rev. 22:4. Jan.1951. 1 Ex892Ex
- 41824 BRITISH GUIANA. DEPT. OF AGRICULTURE. Annual report for the year 1949. Bel Air Park, 1950. 46 p. 9.6 B774D
- 41825 BRYAN, A. H., and BRYAN, C. G. Principles and practice of bacteriology. Ed. 4. New York, Barnes & Noble, 1951. 410 p. (Col. Outline Ser.) 448.2 B84
- 41826 CIFERRI, R. Modern aspects of control of rodents in the field and in the house. (In Italian.) Humus 6(11):11-17. Nov.1950. 16 H88
- 41827 CRABB, G. A., JR. Solar radiation investigations in Michigan. Mich. Agr. Expt. Sta. Tech. B. 222,153 p. Ref. P. 75-53. Oct.1950. 100 M58S
- 41828 CRIVELLI, E. Moderni metodi di produzione degli antiparassitari agricoli, industriali e domestici [Modern methods of production of economic poisons—agricultural, industrial and household]. Firenze, 1950. 522 p. (Manuali Cya) 464.4 C86
- 41829 DELAWARE. STATE LABORATORY. Fertilizer, feed, lime and seed report January-June-1950, July-December-1950. Del. State Bd. Agr. B. 40(2,4),96 p. 1951. 2 D37B
- 41830 DUTCHER, R. A., JENSEN, C. O., and ALTHOUSE, P. M. Introduction to agricultural biochemistry. New York, Wiley, 1951. 502 p. 386 D95
- 41831 THE FIELD annual, 1951. London, 1951. 164 p. 10 F45A
- 41832 FLEMING, F. Operation mothball; a sheep man in Alberta's bush country fights a successful defensive action against the coyotes. Country Guide 70(2):52-53. Feb.1951. 7 G76
- 41833 GARNETT, W. E. What should Government do? South. Planter 112(2):50-51. Feb.1951. 6 S89 Government services and expenditures.
- 41834 GREEN, D. D. Policy on 1080 poisoning campaign. Natl. Wool Grower 41(2):19-20. Feb.1951. 45.8 N21N Predator control.



41835 HAWAII. BOARD OF COMMISSIONERS OF AGRICULTURE AND FORESTRY. Report, biennial period ending June 30, 1950. Honolulu, 1951. 79 p. 25 H314Re

41836 HILLER, G. A. Protection against rodents. Ice Cream Indus. 27:167-169. Feb. 1951. 389.8 Ic24

41837 INDIANA ACADEMY OF SCIENCE. Proceedings, 1949, v. 59. n.p., 1950. 309 p. 500 In2

41838 ISLE OF MAN. BOARD OF AGRICULTURE AND FISHERIES. Report for the year ended 31st March, 1949. Douglas, 1950. 51 p. 10 Is4A

41839 KELLER, E. F. Victory of the leading Michurinite biological science. (In Russian.) Akad. Nauk SSSR. Inst. Lesa. Lab. Evolutsii. Ekol. Rast. im. B. A. Kellera. Trudy 2:7-9. 1950. 451 Ak13

41840 KRUIF, P. DE. Sure death to rats. Reader's Digest 58(347):92-94. Mar. 1951. 110 R22

41841 MASSACHUSETTS. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Publications for farm and home. Mass. U. Agr. Ext. L. 104, rev., 8 p. Jan. 1951. 275.29 M381L

41842 MINNESOTA. DEPT. OF AGRICULTURE, DAIRY AND FOOD. Bulletin of information, 1950. St. Paul, 1950. 90 p. 44.9 M664

41843 MYSORE. AGRICULTURAL DEPT. Annual administration report for the year 1946-47. Bangalore, 1950. 402 p. 22 M99R

41844 NEVADA. DEPT. OF AGRICULTURE. Report for the fiscal years ending June 30, 1949-1950. Carson City, 1950. 38 p. 2 N413B

41845 OREGON. DEPT. OF AGRICULTURE. Biennial report, 1948-50. Portland, 1950. 47 p. 2 Or3B

41846 P. S. C. CHEMICALS manual. Portland, Pacific Supply Corp., 1950. 1 v. 386 P11  
Specifications and directions for use of insecticides, fungicides, weed killers, fertilizers, and wood preservatives.

41847 PEI, H. S. The scientific basis of the new genetics. (In Chinese.) Fukien Agr. J. 11:125-147. June 1950. 22.5 F95  
English summary.

41848 PLANTA taschenkalender 1950 für landwirtschaft und gartenbau. Worms am Rhein, 1950. 352 p. 18 P69

41849 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Lista de publicaciones. Río Piedras, 1950. 12 p. 275.29 P96Po

41850 ROSS, H. B. In-service training in conservation education. N. Y. Agr. Col. Ext. Cornell Misc. B.9, 15 p. Jan. 1951. 275.29 N48Cm  
Teacher education in conservation.

41851 SARAWAK. DEPT. OF AGRICULTURE. Annual report for 1949. Sarawak, 1949. 74 p. 22.5 Sa7

41852 SCHMIDT, H. W. Die rattenfangkiste. Tech. f. Bauern u. Gärt. Ausg. A 2:604. Oct. 25, 1950. 58.8 T223

41853 SULEIMENOV, I. Agricultural science in Kazakh SSR. (In Russian.) Sov'sk. Khoz. 21(8):54-58. Aug. 1950. 281.8 So73

41854 SUOMALAINEN ELAIN- JA KASVITIEEELINEN SEURA VANAMO, HELSINGFORS. Report on the activities of Societas Zoologica Botanica Fennica 'Vanamo' in 1949. Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1950)5:12-19. 410.9 Su7T

41855 SURINAM. Surinaams verslag 1947. I. Tekst van het verslag van bestuur en staat van Suriname over het jaar 1946 [Surinam's report, 1947. I. Text of the report of the administration and condition of Surinam during the year 1946]. 's-Gravenhage, 1950. 71 p. 259 K83S  
Includes agriculture.

41856 UNION OF SOUTH AFRICA. DEPT. OF AGRICULTURE. Annual report of the Department of Agriculture for the year ended 31 August, 1950. Farming So Africa 25:379-504. Dec. 1950. 24 So842

41857 U. S. EXTENSION SERV. List of land-grant colleges in the United States. Washington, 1951. 2 p. 1.913 A2L696

41858 U. S. FARMERS HOME ADMIN. Annual report, San Francisco Office, 1949/50. San Francisco, 1950. 10 p. 1.949 An73

41859 WESTERN AUSTRALIA. DEPT. OF AGRICULTURE. Annual report, year ended 30th June, 1949. Perth, 1950. 62 p. 23 W522

41860 WILCZYNSKI, J. L'hérédité mendélienne peut-elle être exprimée par une ou plusieurs formules binomiales? Acad. des Sci. Compt. Rend. 232:562-564. Feb. 5, 1951. 505 P21

## HISTORY AND BIOGRAPHY

41861 ARANGO, R. Alvaro Reynoso: ayer, hoy y mañana en la producción azucarera mundial. Retiro Azucarero 6(19/20):28-31, 38-41, 58-60, 64. Sept./Dec. 1950. 65.8 R31

41862 ARONOVICI, C. Liberty H. Bailey. Survey 87: 123-127. Mar. 1951. 280.8 C37

41863 ARTOBOLLEVSKI, I., and SYSOEV, N. The founder of agricultural mechanics. (In Russian.) Sov'sk. Khoz. 21(11):51-57. Nov. 1950. 281.8 So73  
V. P. Gorl'achkin.

41864 BEETLE, A. A. Patrick Beveridge Kennedy—early range manager. J. Range Managt. 4:107-111. Ref. Mar. 1951. 60.18 J82  
Includes list of his publications.

41865 BOURGENOT. Un portrait de Gurnaud. Soc. Forest. de Franche-Comté et des Prov. de l'Est. B. Trimes. 25:680-697. Ref. Dec. 1950. 99.9 So14

41866 BRITTON, E. E. Obituary: H. E. Andrewes. Ent. Mon. Mag. 87:64. Feb. 1951. 421 En86

41867 CLARKE, M. W. Scions of great King Ranch needed Association; father and son served as presidents of the Texas and Southwestern Cattle Raisers Association Cattleman 37(10):23, 66-68, 70, 74, 76. Mar. 1951. 49 C29  
History of the King Ranch and notes on its founder, Capt. Richard King, and his successors Robert J. Kleberg, and Richard M. Kleberg.

41868 COLONEL Charles Franklin Craig, 1872-1950. J. Econ. Ent. 43:965. Dec. 1950. 421 J822

41869 CONSTANCE, L. Morton Eaton Peck. Madroño 11:22-24. Jan. 1951. 450 M26

41870 DANGON, G. Notre grand deuil: notre premier vice-président fédéral Émile Claudel est mort le 12 septembre 1950. Féd. des Assoc. de Communes Forest. Franç. B. Off. 1950(9/10):1. Sept./Oct. 1950. 99.9 F313

41871 DEATH OF Dr. S. A. Rohwer shocks pest control industry. Pest Control 19(3):26. Mar. 1951. 449.8 Ex8

41872 FRANCINI, E. The scientific work of Enrico Carano. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.):56:254-265. 1949. 450 N92

41873 FUSSELL, G. E. Lady botanists of the nineteenth century. II. The Rt. Hon. Lady Charlotte Murray. Gard. Chron. 128:238-239. Dec. 23, 1950. 80 G162

41874 GIORGI, G. Agriculture in Hungary during the last thirty years. (In Italian.) Riv. di Econ. Agr. 5:125-150. 1950. 281.8 R52  
English summary.

41875 GURNEY, A. B., and others. Herbert Spencer Barber, 1882-1950. Ent. Soc. Wash. Proc. 52:259-269. Oct. 1950. 420 W27

W. H. Anderson, G. B. Vogt, and O. D. Deputy, joint authors.

41876 HADLEY, C. H., and MCBRIDE, O. C. Arthur Charles Mason, 1891-1950. J. Econ. Ent. 43:964. Dec. 1950. 421 J822

41877 HALL, D. G. Herbert Spencer Barber, (1882-1950). Ent. Soc. Amer. Ann. 43:612. Dec. 1950. 420 En82

41878 HARCOURT Alexander Morgan, 1867-1950. J. Econ. Ent. 43:964-965. Dec. 1950. 421 J822

41879 HARROD, R. F. The life of John Maynard Keynes. New York, Harcourt, 1951. 674 p. 120 K52L

41880 JAVILLIER, M. Joseph Magrou. Acad. des Sci. Compt. Rend. 232:577-581. Feb. 12, 1951. 505 P21

41881 JENKINS, A. E., and others. Peter Wilhelm Lund's pequi tree at Lagoa Santa and pilgrimages to his cemetery. Wash. Acad. Sci. J. 41:66-74. Ref. Feb. 1951. 500 W276J

A. A. Bitancourt, K. Silberschmidt, and W. A. Archer, joint authors.

Caryocar brasiliense.

41882 KOTILAINEN, M. J. In memory of the 100th anniversary of V. F. Brotherus' birthday. Suomalaisen Eläin- ja Kasvitiet. Seuran Vanamon. Tiedonannot ja Pöytäkirjat (1949)4:107-109. 1950. 410.9 Su7T

41883 LANDI, R. Agricultural and livestock subjects on moneys of the Roman Republic. (In Italian.) Humus 6(12):20-23. Dec. 1950. 16 H88

41884 LELAND Ossian Howard, 1857-1950. J. Econ. Ent. 43:958-962. Dec. 1950. 421 J822



- 41885 LIPSHITS, S. I., and RABOTNOV, T. A. Vladimir Nikolaevich Sukachev [1880- ] as a botanist, pedagogist, and social scientist (to the 70th anniversary of his birth). (In Russian.) Moskov. Obshch. Isp. Prirody. Otd. Biol. B. (n.s.)75(4):3-27. 1950. 511 M85
- 41886 LIST, G. M., and ALLEN, H. W. William P. Yetter, Jr.—1894-1950. J. Econ. Ent. 43:962. Dec.1950 421 J822
- 41887 MCELVARE, R. R. Grace Herreshoff Sperry. Brooklyn Ent. Soc. B. 46:21. Feb.1951. 420 B79
- 41888 MASSEE, A. M. Mr. G. Fox Wilson. Nature [London] 167:259. Feb.17,1951. 472 N21
- 41889 PANÍUKOV, D., and VOIDA, A. Outstanding Soviet scientist and patriot (to the 15th anniversary of the death of V. P. Gorl'achkin). (In Russian.) Mashinno-Traktornaya Sta. 10(9):17-19. Sept.1950. 58.8 M11
- 41890 PARSHLEY, H. M. On the life of William T. Davis. Ent. News [Philadelphia] 62:84-86. Feb.1951. 421 En88
- 41891 POEVERLEIN, H. Paul Dietel. Sydowia 4:1-10. Sept.30,1950. 450 Sy2  
Includes list of his publications.
- 41892 RAUP, H. M. Merritt Lyndon Fernald, 1874-1950. Assoc. Amer. Geog. Ann. 40:354-355. Dec.1950. 500 As73
- 41893 ROSS, E. D. Iowa agriculture: an historical survey. Iowa City, State Hist. Soc. Iowa, 1951. 226 p. 281.027 R73
- 41894 ROSSOUW, G. J. We went together; an appreciation of the services rendered organised agriculture by Mr. B. H. Ryder. Primary Prod. [Cape Town] 27:5. Jan.12,1951. 281.8 P93
- 41895 SCHULTZ, E. W. Marcus Claude Terry—1871-1950. J. Hered. 41:307. Nov.1950. 442.8 Am3
- 41896 STEPHENS, P. R. Farming in Canterbury. II. New Zeal. J. Agr. 81:503-511,513,515,517. Dec.15,1950. 23 N48J  
Development of farming in the period of 1880 to 1900.
- 41897 VIETTE, P. Les travaux de P. Chrétien. Rev. Franç. de Lépidopterologie 12:282-288. (Concl.) May/June 1950. 421 P192
- 41898 WADE, J. S. Leland Ossian Howard, (1857-1950). Ent. Soc. Amer. Ann. 43:610-612. Dec.1950. 420 En82
- 41899 WADE, J. S., and others. Leland Ossian Howard, 1857-1950. Ent. Soc. Wash. Proc. 52:224-233. Oct.1950. 420 W27  
A. B. Gahan, G. J. Haeussler, and E. R. Sasscer, joint authors.
- 41900 WALLRICH LAW OFF., SHAWANO, WIS. Dairy smatterings, October 18, 1950, in memoriam, Matt Wallrich, March 4, 1905 - October 3, 1950. Shawano? 1950. 14 p. 284.344 W15
- 41901 WEHRLE, H. J. Lawrence Paul Wehrle, 1887-1950. J. Econ. Ent. 43:963. Dec.1950. 421 J822
- 41902 WEIHER, S. VON. Gedenktage der landtechnik. Tech. f. Bauern u. Gart. Ausg. A 2:488-489,583,647-648, 720-721. Sept.10,Oct.25,Nov.25,Dec.25,1950. 58.8 T223
- 41903 ZHELIGOVSKIY, V. A. Academician V. P. Gorl'achkin (life and activity, 1868-1935). (In Russian.) Sel'khoz mashina 1950(9):1-4. Sept.1950. 58.8 Se42

## HOME MANAGEMENT

- 41904 KAYSER, E. Zur entlastung der bäuerin. Tech. f. Bauern u. Gärt. Ausg. A 2:665-666. Nov.25,1950. 58.8 T223  
Household equipment.
- 41905 MCIVER, J. Tailoring tips. N. C. Agr. Col. Ext. Misc. Pam. 122, rev., 12 p. Nov.1950. 275.29 N811M
- 41906 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Family clothing inventories by age, Minneapolis-St. Paul, Minn., 1948-49. U. S. Bur. Human Nutr. & Home Econ. Studies Family Clothing Supplies. Prelim. Rpt. 3, 29 p. Jan.1951. 1.982 T2S9
- 41907 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Titles of completed theses in home economics and related fields in colleges and universities of the United States, 1949-50. U. S. D. A. PA-147, 60 p. Feb. 1951. 1 Ag84Pro  
U. S. Office of Education, Home Economics Service cooperating.

## INTERNATIONAL RELATIONS

- 41908 BRANNAN, C. F. Montevideo conference; some first-hand observations of the American agricultural meetings. Foreign Agr. 15:57-59. Mar.1951. 1.9 Ec7For  
The Fourth Inter-American Conference on Agriculture and the Second Latin American Regional Meeting of the Food and Agriculture Organization of the United Nations.
- 41909 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Report of the special session of the conference, Washington, D. C., U. S. A., 3-11 November, 1950. Washington, 1951. 60 p. 389.9 F75Rs
- 41910 HUDSON, S. C., and BURNS, D. H. FAO in 1950. Econ. Annal. 21:21-23. Feb.1951. 281.8 Ec72
- 41911 WAHLEN, F. T. FAO's program of work. Washington, 1950. 6 p. 1.943 F735
- 41912 WOZNAK, D. F. United Nations FAO, world's county agent. Iowa Agr. 49(5):5-6. Dec.1950. 6 Io9

## METEOROLOGY

- 41913 ANGELL, G. N. What's new in rain-making? Utah Farmer 71:188-189. Mar.1,1951. 6 D45  
Also in Oreg. Farmer 74:171-172. Mar.1,1951. 6 Or32
- 41914 BEAUMONT, R. T. Cloud milking—still uncertain business. Idaho Farmer 69:5,17. Jan.4,1951. 6 G282  
Condensed by G. N. Angell.  
Deals with rainmaking experiments.
- 41915 CASA PACHECO, MARQUES DE. Por qué llueve tan poco en España? Cult. Mod. 33:445-446. Dec.1950. 15 C89
- 41916 DEMORTIER, G., and BONUS, M. Observations météorologiques de l'année 1948. Inst. Agron. et Sta. de Rech. de Gembloux. B. 18(1/2):190-214. 1950. 105.1 G285
- 41917 JURWITZ, L. R. Additional comments on the artificial inducement of precipitation. Ariz. Cattlelog 6(5):22-23. Jan.1951. 43.8 Ar42
- 41918 LINJA-AHO, M. Weather conditions at Tamisto 1946-1949. (In Finnish.) Siemenjulkaisu 1950:112-120. 61.9 K48  
English summary.
- 41919 OLAFSON, G. Microclimate. (In Norwegian.) Norsk Hagetid. 67:34-35. Feb.1/15,1951. 80 N81
- 41920 PALMER, E. L. Winter lunches for wildlife. N. Y. Agr. Col. Ext. Cornell Rur. Sch. L. 44(3), 32 p. Winter 1950/51. 275.29 N48R
- 41921 STROHM, J. They're tampering with your weather; if the rainmakers can dump water on farms 2000 miles away, it's no wonder there's a demand for laws to control cloud seeding. Country Gent. 121(3):21,118,120-121. Mar.1951. 6 C833
- 41922 WESTERN SNOW CONFERENCE. Proceedings, 18th annual meeting, Boulder City, Nevada, April 1950. Boulder City, 1950. 72 p. 340.8 W52
- 41923 WILSON, B. Rainfall from reluctant clouds. Amer. Hereford J. 41(21):12-13,114D-114E. Mar.1,1951. 43.8 Am32

## RESEARCH

- 41924 ARIZONA. AGRICULTURAL EXPERIMENT STATION. Fifth annual report, economic poisons. Ariz. Agr. Expt. Sta. Spec. B., 33 p. Feb.1951. 100 Ar4
- 41925 AUGUSTENBERG, GER. BADISCHE STAATLICHE LANDWIRTSCHAFTLICHE VERSUCHS- UND FORSCHUNGSANSTALT. Entwicklung und wirken der Bad. Staatl. Landwirtschaftlichen Versuchs- und Forschungsanstalt, Augustenberg, 90 jahre, 1859-1949, ed. by H. Riehm. Grötzingen/Baden, Hafner, 1950. 173 p. 105.8 Au4E
- 41926 BELL, W. B. The role of the Virginia Agricultural Experiment Station in agricultural research. (Abs.) Va. J. Sci. (n.s.)1:335-336. Sept.1950. 470 V81
- 41927 CANADA. NATIONAL RESEARCH COUNCIL. Review 1950 [year ended Dec. 31, 1949]. Ottawa, 1950. 278 p. 330.9 C16Rc
- 41928 COMMONWEALTH AGRICULTURAL BUR. Twenty-first annual report of the Executive Council 1949-50. London, 1951. 40 p. 10 Im72



41929 FRANCE. EMBASSY. U. S. AGRICULTURAL SECT. List of agricultural experiment stations in Tunisia. Washington, 1950? 2 p. 225 F76L

41930 GT. BRIT. COLONIAL OFF. Colonial research 1949-50. London, 1950. 155 p. (Cmd. 8063) 330.9 G7973  
Includes agricultural research.

41931 GT. BRIT. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. Report for the year 1948-49. London, 1950. 259 p. (Cmd. 8045) 330.9 G792R  
Includes research relating to agriculture.

41932 INDISCH INSTITUUT. AFDELING TROPISCHE PRODUCTEN. Inlichtingen en onderzoeken van de Afdeling Tropische Producten in 1949 (Information and research in 1949 of the Tropical Products Department - summary). Indisch Inst. Afd. Trop. Prod. Meded. 88, 59 p. 1950. 503 Am82

41933 KANSAS. AGRICULTURAL EXPERIMENT STATION. Fifteenth biennial report, 1948/50. Manhattan, 1950. 122 p. 100 K13S

41934 KING, G. H. Experiment stations pay rich dividends; \$70.00 returned for each dollar invested. Res. News [Ga. Sta.] 3(1), 1, 3-4. Jan. 1951. 100 G29R

41935 KYODAI NOGAKU BU. Nogei kagaku jikken sho [Experiments in agricultural chemistry]. Tokyo, Sangyo Tosho, 1950. 3 v. 395 K99

41936 LANTBRUKSKEMISKA KONTROLLSTATIONEN JÖNKÖPING. Berättelse över verksamheten vid Lantbrukskemiska Kontrollstationen i Jönköping, arbetsåret 1 Juli 1949-30 Juni 1950 [Report of the activities of the Agricultural Chemical Control Station in Jönköping, the working year July 1, 1949-June 30, 1950]. Jönköping, 1950. 10 p. 385 J73

41937 MESA BERNAL, D. Balance de los principales aportes en materia de biología en 1949. Agr. Trop. 6(2): 39-40. Feb. 15, 1950. 26 Ag8

41938 NEATBY, K. W. Agricultural research in the United Kingdom. West. Canad. Weed Control Conf. Proc. 3:1-3. Nov. 30, 1949. 79.9 W522

41939 NEW YORK (STATE). AGRICULTURAL EXPERIMENT STATION. Sixty-ninth annual report, 1949/50. Geneva, 1951. 51 p. 100 N48

41940 NORTH DAKOTA. AGRICULTURAL EXPERIMENT STATION. North Dakota's agricultural progress through research; annual report. N. Dak. Agr. Expt. Sta. B. 365, 93 p. Jan. 1951. 100 N813

41941 OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. Biennial report, 1948-50. I. Science serving agriculture. Stillwater, 1950. 61 p. 100 Ok4

41942 SWITZERLAND. Eidgenössische Landwirtschaftliche Versuchsanstalt Zürich-Oerlikon. Bericht pro 1948/49. Bern, 1950. p. 373-444 105.5 Oe7B

41943 TEXAS. AGRICULTURAL EXPERIMENT STATION. Agricultural research in Texas, 1947-49. College Station, 1950? 201 p. 100 T31S

41944 TINGO MARÍA, PERU. ESTACIÓN EXPERIMENTAL AGRÍCOLA. Informe, 1949. Huanuco, 1950. 98 p. 102.5 T49I

41945 WARD, J. C. Rodenticides. Indus. & Engin. Chem. 43:572-573. Mar. 1951. 381 J825  
Research.

41946 WYOMING. AGRICULTURAL EXPERIMENT STATION. Sixtieth annual report, 1949-50, by J. A. Hill and G. Jenny. Laramie, 1950. 56 p. 100 W99

41947 ZELLER, A. 20.000 prozent gewinn im jahr; die rentabilität landwirtschaftlicher forschung. Pflug 4: 24. Jan. 1951. 19 P48  
In various countries.

#### STATISTICS

41948 CLEM, M. A., and FEDERER, W. T. Random arrangements for lattice designs. Iowa. Agr. Expt. Sta. Spec. Rpt. 5, 151 p. Ref. Sept. 1950. 100 Io9Sp  
Statistical methods.

41949 WILSON, C. M. Can the South compete; total sales on Alabama farm jump from \$9,044 to \$27,653. Iowa Bur. Farmer 15:28. Jan. 1951. 275.293 Iowa  
Statistics of the W. R. Hightower Unit Test Demonstration Farm, Limestone County, Alabama.



U. S. D. A. PUBLICATIONS

Includes publications of the United States Department of Agriculture received in the Library during the preceding month, except restricted publications and materials issued for internal administrative use rather than for public distribution.

Periodicals issued by the Department are listed in the November issue only; articles in them are indexed currently.

Domestic requests for publications in the various Department series will be filled free upon application to the Office of Information, United States Department of Agriculture, Washington 25, D. C., as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington 25, D. C.

Bureau publications may ordinarily be obtained free of charge from the issuing bureau as long as the supply lasts.

Foreign institutions, organizations and agencies which issue publications may obtain United States Department of Agriculture publications in exchange by writing to the United States Department of Agriculture Library, Washington 25, D. C.

Agricultural Handbooks

OLSEN, B. F. Canning in glass jars in school and institutional kitchens; fruits and other acid foods. U. S. D. A. Agr. Handb. 11,28 p. Jan.1951. 1 Ag84Ah

Agricultural Information Bulletins

MCLURE, J. H. Market outlets for extra long staple cotton in the United States. U. S. D. A. Agr. Inform. B. 33,50 p. Ref. Dec.1950. 1 Ag84Ab

REITZ, W. W. How to recognize erosion in the Northeast. U. S. D. A. Agr. Inform. B. 27,16 p. 1951. 1 Ag84Ab

Supersedes Miscellaneous Publication 516.

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Customers across the border; the farmer's stake in United States-Canadian trade. U. S. D. A. Agr. Inform. B. 35,8 p. 1951. 1 Ag84Ab

Circulars

BIRD, H. R. Nutritive requirements and feed formulas for chickens. U. S. D. A. C. 788,rev.,28 p. Dec.1950. 1 Ag84C

FOSTER, A. C. Some plant responses to certain insecticide in the soil. U. S. D. A. C. 862,41 p. Ref. Mar.1951. 1 Ag84C

Farmers' Bulletins

HAVIS, A. L., and others. Peach growing east of the Rocky Mountains. U. S. D. A. Farmers' B. 2021, 54 p. Jan.1951. 1 Ag84F

M. H. Haller, J. C. Dunegan, L. C. Cochran, and B. A. Porter, joint authors.

Supersedes Farmers' Bulletin 917.

Home and Garden Bulletins

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Family fare, food management and recipes. U. S. D. A. Home & Gard. B. 1,slightly rev.,96 p. Dec.1950. 1 Ag84Hg

Leaflets

BORELL, A. E. Russian-olive [*Elaeagnus angustifolia*] for wildlife and good land use. U. S. D. A. L. 292,8 p. 1951. 1 Ag84L

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Root vegetables in everyday meals. Slightly rev. U. S. D. A. L. 294,8 p.-folder. Nov.1950. 1 Ag84L

Formerly AIS-42.

Miscellaneous Publications

U. S. PRODUCTION AND MARKETING ADMIN. Changes in beef grades. U. S. D. A. Misc. P. 553(sup.), 1 p. 1950. 1 Ag84M

Program Aid

DREISBACH, M. B., and HANDY, E. School lunch management in relation to nutritive value, cost, and acceptance of foods served. U. S. D. A. PA-114,39 p. Ref. Jan.1951. 1 Ag84Pro

STEELE, J. G. The measure of our land. U. S. D. A. PA-128,17 p. Jan.26,1951. 1 Ag84Pro

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Titles of completed theses in home economics and related fields in colleges and universities of the United States, 1949-50. U. S. D. A. PA-147,60 p. Feb. 1951. 1 Ag84Pro

U. S. Office of Education, Home Economics Service cooperating.

U. S. FARMERS HOME ADMIN. Operating loans for better farming, better living. U. S. D. A. PA-144,8 p. Nov.1950. 1 Ag84Pro

Supersedes PA-63, of which it is a revision.

WAKELAND, C., and PARKER, J. R. Grass-hopper control with aldrin, chlordane, and toxaphene. U. S. D. A. PA-149,12 p. Feb.1951. 1 Ag84Pro

Supersedes EC-11, Chlordane and toxaphene for grass-hopper control.

Statistical Bulletins

U. S. PRODUCTION AND MARKETING ADMIN. Cotton quality statistics, United States, 1949-50. U. S. D. A. Statis. B. 94,63 p. 1951. 1 Ag84St

Technical Bulletins

BALCH, R. T., BROEG, C. B., and LAURITZEN, J. I. Effect of burning on the deterioration of sugarcane under Louisiana conditions. U. S. D. A. Tech. B. 1021,22 p. Ref. Nov.1950. 1 Ag84Te

CARPENTER, J. B. Target leaf spot of the Hevea rubber tree in relation to host development, infection, defoliation, and control. U. S. D. A. Tech. B. 1028, 34 p. Ref. Feb.1951. 1 Ag84Te

EINSTEIN, H. A. The bed-load function for sediment transportation in open channel flows. U. S. D. A. Tech. B. 1026,71 p. Ref. 1951. 1 Ag84Te

Unnumbered Publications

U. S. DEPT. OF AGRICULTURE. Index-catalogue of medical and veterinary zoology. 12. Authors: P to Qvortrup, by A. Hassall, M. A. Doss, D. B. Segal, and D. H. Ray. Washington,1951. p. 3721-4054. 1 An5Ind

U. S. DEPT. OF AGRICULTURE. Seeds, spices, and herbs: U. S. imports, reexports, and net imports, calendar years, average 1935-39, annual 1940 to date. Washington,1950. 9 p. 1.90 A2Se3

AGRICULTURAL AND INDUSTRIAL CHEMISTRY, BUREAU OF

ACETO, N. C., and others. Production of leaf meals from vegetable wastes in rotary alfalfa driers. U. S. Bur. Agr. & Indus. Chem. AIC-286,8 p. Dec.1950. 1.932 A2Ag82

P. W. Edwards, R. K. Eskew, C. S. Redfield, R. F. Hurley, and A. Hoersch, Jr., joint authors.

COUCH, J. F., KREWSON, C. F., and NAGHSKI, J. Chemistry, pharmacology, and clinical application of rutin. U. S. Bur. Agr. & Indus. Chem. AIC-291, 30 p. Ref. Feb.1951. 1.932 A2Ag82

OLSON, R. L., and HARRINGTON, W. O. Dehydrated mashed potatoes—a review. U. S. Bur. Agr. & Indus. Chem. AIC-297,23 p. Ref. Jan.1951. 1.932 A2Ag82

TEUTON, F. L. New uses for farm products. Washington, U. S. Bur. Agr. & Indus. Chem.,1951. 13 p. 1.98 T29

Address before the annual meeting of the Greater North Dakota Association at Devils Lake, Mar. 20, 1951.

VON LOESECKE, H. W. Citrus cannery waste, its use and disposition. U. S. Bur. Agr. & Indus. Chem. AIC-290,21 p. Ref. Nov.1950. 1.932 A2Ag82



## AGRICULTURAL ECONOMICS, BUREAU OF

ESHBACH, C. E. Consumer education is essential for rational marketing. Washington, U. S. Bur. Agr. Econ., 1950. 18 p. 1.941 M3C765

Address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 30, 1950.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Annual livestock report. Austin, 1951. 2 p. 1.941 H8L7555

U. S. BUR. OF AGRICULTURAL ECONOMICS. Annual livestock report as of January 1, 1951. Orlando, 1951. 2 p. 1.941 H8L755

Similar report for Montana. 1.941 H8L7553

U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle and sheep and lambs on feed, January 1, 1951. Oklahoma City, 1951. 2 p. 1.941 H8C29

U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle on feed, January 1, 1951. Fargo, 1951. 2 p. 1.941 H8Sh4

U. S. BUR. OF AGRICULTURAL ECONOMICS. Consumer fruit and juice purchases, July-Sept. 1950, by regions and type of retail outlet. Washington, 1950. 50 p. 1.941 M3R26

U. S. Production and Marketing Administration cooperating.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Early spring lamb crop, 1951. Washington, 1951. 2 p. 1.9 Ec742E

U. S. BUR. OF AGRICULTURAL ECONOMICS. The food situation. Washington, 1951. 2 p. 1.941 S2F736

U. S. BUR. OF AGRICULTURAL ECONOMICS. The hired farm working force, 1948 and 1949, with special reference to coverage of hired farm workers under old-age and survivors insurance, by G. K. Bowles, L. J. Ducoff, and M. J. Hagood. Washington, 1950. 45 p. 1.941 R3H61

U. S. BUR. OF AGRICULTURAL ECONOMICS. Honey and beeswax production. Richmond, 1951. 2 p. 1.941 H8H753

Similar report issued from Oklahoma City.

1.941 H8H756

U. S. BUR. OF AGRICULTURAL ECONOMICS. Honey production, 1950. Fargo, 1951. 2 p. 1.941 H8H755

U. S. BUR. OF AGRICULTURAL ECONOMICS. Idaho annual livestock report. Boise, 1951. 2 p. 1.941 H8L7552

U. S. BUR. OF AGRICULTURAL ECONOMICS. Idaho onion stocks, January 1, 1951. Boise, 1951. 2 p. 1.941 H8On4

U. S. BUR. OF AGRICULTURAL ECONOMICS. Idaho rapeseed production in 1950. Boise, 1951. 1 p. 1.941 H8R18

U. S. BUR. OF AGRICULTURAL ECONOMICS. Interstate barriers to truck transportation, by M. R. Purcell. Washington, 1950. 117 p. 1.941 M2In8

U. S. BUR. OF AGRICULTURAL ECONOMICS. Merchantable potato stocks on February 1, 1951. Fargo, 1951. 2 p. 1.941 H8P84

U. S. BUR. OF AGRICULTURAL ECONOMICS. Milk production on farms and statistics of dairy plant products, 1950. Washington, 1951. 50 p. 1.941 H2M59

U. S. BUR. OF AGRICULTURAL ECONOMICS. Mohair production and value, 1949 and 1950. Washington, 1951. 1 p. 1.9 Ec71Mo

U. S. BUR. OF AGRICULTURAL ECONOMICS. Monthly egg production, 1949-50. Washington, 1951. 13 p. 1.942 D22M76

U. S. BUR. OF AGRICULTURAL ECONOMICS. Oregon annual crop summary, 1950. Portland, 1950. 4 p. 1.941 S8C888

U. S. BUR. OF AGRICULTURAL ECONOMICS. Parity and average prices received by farmers for agricultural commodities, January 1951. Washington, 1951. p. 31-43. 1.941 F8P21

U. S. BUR. OF AGRICULTURAL ECONOMICS. Sheep and lambs on feed, January 1, 1951. Austin, 1951. 2 p. 1.941 H3Sh33

U. S. BUR. OF AGRICULTURAL ECONOMICS. Shipments of package bees in 1950. Washington, 1951. 2 p. 1.941 S8B39

U. S. BUR. OF AGRICULTURAL ECONOMICS. Statistics relative to the receipt and disposal of milk and cream at dairy plants in the Hudson-Mohawk Milk Marketing area, 1949. Albany, N. Y., 1950. 8 p. 1.941 H8M59  
New York State Department of Agriculture and Markets cooperating.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Wool and mohair production, 1950. Portland, Oreg., 1951. 2 p. 1.941 H8F44

U. S. BUR. OF AGRICULTURAL ECONOMICS. Wool production and income, 1949-50. Washington, 1951. 2 p. 1.9 Ec713Wp

U. S. BUR. OF AGRICULTURAL ECONOMICS. Young chickens, hens and pullets of laying age and potential layers on farms, 1949-51. Washington, 1951. 4 p. 1.941 H8C432

## ANIMAL INDUSTRY, BUREAU OF

KUTTLE, A. K. Bovine, avian and swine tuberculosis eradication. Washington, U. S. Bur. Anim. Indus., 1950. 4 p. 1.972 A2K96

Presented at annual meeting of the United States Livestock Sanitary Association, Nov. 1-3, 1950, Phoenix.

## COMMODITY EXCHANGE AUTHORITY

U. S. COMMODITY EXCHANGE AUTHORITY. Corn and grain sorghum summary for the crop year beginning October 1949. Chicago, 1951. 5 p. 1.913 A3C81  
U. S. Extension Service and U. S. Production and Marketing Administration cooperating.

## DAIRY INDUSTRY, BUREAU OF

HODGSON, R. E. Our dairy cows could use more good roughage. U. S. Bur. Dairy Indus. BDI-Inf-115, 14 p. Feb. 1951. 1.973 D4B34

Talk at meeting of the Association of Southern Agricultural Workers, Memphis, Feb. 6, 1951.

MOORE, L. A. New ideas on protein in dairy-cow rations. U. S. Bur. Dairy Indus. BDI-Inf-116, 3 p. Mar. 1951. 1.973 D4B34

MOORE, L. A. New values in good hay and silage for dairy cows. U. S. Bur. Dairy Indus. BDI-Inf-117, 10 p. Mar. 1951. 1.973 D4B34

## ENTOMOLOGY AND PLANT QUARANTINE, BUREAU OF

BECK, E. W. Status of the European corn borer [*Pyrausta nubilalis*] in 1950. U. S. Bur. Ent. & Plant Quar. Insect Pest Survey. Spec. Sup. 1951(1), 20 p. Feb. 20, 1951. 1.9 En831B

BOTTGER, G. T., YERINGTON, A. P., and GERTLER, S. I. Preliminary tests of some hydrazides and hydrazones as insecticides. U. S. Bur. Ent. & Plant Quar. E-815, 17 p. Feb. 1951. 1.9 En83

FULTON, R. A. Supplemental list of publications on liquefied-gas aerosols. U. S. Bur. Ent. & Plant Quar. E-814, 5 p. Jan. 1951. 1.9 En83

ROHWER, S. A. Threat of oriental fruit fly [*Dacus dorsalis*] and citrus blackfly [*Aleurocanthus woglumi*]. Washington, U. S. Bur. Ent. & Plant Quar., 1950. 1 p. 1.9 En86Ro

Talk to the Fruit and Vegetable Conference at annual meeting of the American Farm Bureau Federation, Dallas, Dec. 11, 1950.

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. EQ 335 and other wound treatments for screw-worm [*Callitroga americana*] control. U. S. Bur. Ent. & Plant Quar. E-813, 6 p. Feb. 1951. 1.9 En83

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. The gypsy moth [*Porthetria dispar* (L.)]. U. S. D. A. Picture Sheet 26, 2 p. Nov. 1950. 1 En86P

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine import restrictions of the Republic of France; importation of conifers restricted. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 403(2d rev, sup. 1), 1 p. Jan. 17, 1951. 1.9 F73

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. White-fringed beetle [*Graphognathus leucoloma*] control. Washington? 1951? 1 p. 1.967 A2W584

WALKDEN, H. H., and WHITE, G. D. Status of the southwestern corn borer [*Diatraea grandiosella*] in Kansas, Oklahoma, Missouri, and Arkansas in the fall of 1950. U. S. Bur. Ent. & Plant Quar. Spec. Sup. 1951(2), 2 p. Feb. 23, 1951. 1.9 En831B



## EXPERIMENT STATIONS, OFFICE OF

HUME, E. P. Growing avocados in Puerto Rico. P. R. Fed. Expt. Sta. (Mayaguez) C. 33,51 p. Ref. Feb.1951. 1 Ex65

## EXTENSION SERVICE

BOATMAN, J. L. Soil conservation district administration. Washington. U. S. Ext. Serv., 1950. 7 p. 1.913 A2B63

Talk at meeting of Soil Conservation District governing bodies, St. Cloud, Minn., Sept. 18, 1950.

CRILE, L. Review of Extension studies, July to December 1950. U. S. Ext. Serv., Ext. Serv. C. 471, 51 p. Jan. 1951. 1.9 Ex892Esc

GLASSER, M. A. Stepping onward at midcentury. Washington, U. S. Ext. Serv., 1951. 5 p. 1.913 C3St4

Talk at the Extension Service Conference on Children and Youth, Dec. 13, 1950, U. S. Department of Agriculture, Washington, D. C.

GOLDBERG, J. B. The current program to improve the performance of fabrics from synthetic fibers. Washington, U. S. Ext. Serv., 1951. 7 p. 1.913 A2L64

Notes taken by Alice Linn at the Twenty-first Annual Meeting of the Textile Research Institute, Nov. 16-18, 1950.

HEUMANN, R. Report of [an] in-service trainee from Germany. Washington, U. S. Ext. Serv., 1951. 5 p. 1.913 O2R294

ROKAHR, M. Presenting agricultural policy information to the people of the South. Washington, U. S. Ext. Serv., 1951. 7 p. 1.913 H3R63

Paper at meeting of the Association of Southern Agricultural Workers, Memphis, Feb. 6, 1951.

U. S. EXTENSION SERV. Chronological notes regarding the Extension Subcommittee on 4-H Club Work, by R. A. Turner. Washington, 1951. 7 p. 1.913 F3C46

U. S. EXTENSION SERV. Dairy marketing; references and procedures for keeping economic and statistical information up to date, by E. N. Searls. Washington, 1950. 39 p. 1.913 A5D14

U. S. EXTENSION SERV. List of land-grant colleges in the United States. Washington, 1951. 2 p. 1.913 A2L696

U. S. EXTENSION SERV. List of State extension correspondents handling information material. Washington, 1951. 2 p. 1.913 A2L694

U. S. EXTENSION SERV. List of State extension directors. Washington, 1951. 2 p. 1.9 Ex892Ls

U. S. EXTENSION SERV. Looking ahead with cotton, by E. P. Callahan. Washington, 1950. 7 p. 1.913 A5L87

U. S. EXTENSION SERV. Obtaining replacement ewes for Kansas, by C. G. Elling. Washington, 1951. 3 p. 1.913 A4Ob7

U. S. EXTENSION SERV. Plan of organization for Extension Subcommittee on 4-H Club Work. Washington? 1951. 1 p. 1.913 F3P69

U. S. EXTENSION SERV. Recommendations of committees, Regional Extension Cotton Conferences. Washington? 1950. 15 p. 1.913 C3C82

U. S. EXTENSION SERV. Soybean and flaxseed summary for the crop year beginning July 1949 for flaxseed, and October 1949 for soybeans. Chicago, 1951. 4 p. 1.913 A3So9

U. S. Commodity Exchange Authority and U. S. Production and Marketing Administration cooperating.

U. S. EXTENSION SERV. Temporary list of slidefilms of the U. S. Department of Agriculture. Washington, 1950. 24 p. 1.913 M3T24

VAUGHAN, L. M. In-service training on questions of public policy. Washington, U. S. Ext. Serv., 1950. 12 p. 1.912 E2V46

Summary of remarks before Regional Conference of Extension Workers on Public Policy Problems, Southern States, on Dec. 6, 1950, at Atlanta.

## FARM CREDIT ADMINISTRATION

HECKMAN, J. H. Team demonstrations in farmer cooperation. (Prelim.) U. S. Farm Credit Admin. Coop. Res. & Serv. Div. C. E-35,8 p. Feb. 1951. 166.2 C4926

U. S. FARM CREDIT ADMIN. Annual report, 1949-50. Washington, 1951. 176 p. 166.2 An7

U. S. FARM CREDIT ADMIN. Loans and discounts of lending institutions supervised by Farm Credit Administration; semiannual report. Washington, 1950. 9 p. 166.2 M76

U. S. FARM CREDIT ADMIN. Publications on agricultural cooperation. U. S. Farm Credit Admin. C. A-23, rev., 23 p. Feb. 1951. 166.2 C4922

U. S. FARM CREDIT ADMIN. Report to the national farm loan associations, 1949/50. Washington, 1951. 32 p. 1.955 F2R29

## FARMERS HOME ADMINISTRATION

U. S. FARMERS HOME ADMIN. Annual report, San Francisco Office, 1949/50. San Francisco, 1950. 10 p. 1.949 An73

U. S. FARMERS HOME ADMIN. Operating loans. Washington, 1950. 5 p. 1.949 Op22

## FEDERAL CROP INSURANCE CORPORATION

U. S. FEDERAL CROP INSURANCE CORPORATION. All risk crop insurance, by J. L. Buckler. Washington, 1950. 65 p. 1.952 AL5

U. S. FEDERAL CROP INSURANCE CORPORATION. Estimated losses by annual yields, standard deviation=25 o/o. Washington, 1950. 3 p. 1.952 Es8

U. S. FEDERAL CROP INSURANCE CORPORATION. Loss adjustment manual for multiple crops for 1951 and succeeding crop years. Washington, 1951. 20 p. 1.952 L898

FOREIGN AGRICULTURAL RELATIONS,  
OFFICE OF

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. TECHNICAL COLLABORATION BR. Abstracts of some articles pertaining to the cultivation of black pepper, by L. Greene. Washington, 1951. 45 p. 1.943 Ab82

## FOREST SERVICE

DEMMON, E. L. A national policy for timber lands. U. S. Forest Serv. Lake States Forest Expt. Sta. Misc. Rpt. 16,5 p. Mar. 1951. 1.9622 L2M68

HULL, A. C., JR., and VAUGHN, W. T. Kill undesirable native vegetation for successful range reseeding. U. S. Forest Serv. Rocky Mountain Forest & Range Expt. Sta. Res. Note 8,3 p. Jan. 1951. 1.9622 R2R313

ISAAC, L. A. Seed crop prospects for 1951. U. S. Forest Serv. Pacific Northwest Forest & Range Expt. Sta. Res. Note 73,2 p. Dec. 1950. 1.9 F7629Fr

RIETZ, R. C. What are the principal advantages in seasoning lumber? U. S. Forest Serv. Forest Prod. Lab. News & Views This Kiln Drying Business. Rpt. D1769-5,1 p. Aug. 1950. 1.9 F761R

RUDOLF, P. O. Chemical control of brush and tree growth for the Lake States. U. S. Forest Serv. Lake States-Forest Expt. Sta. Misc. Rpt. 15,30 p. Jan. 1951. 1.9622 L2M68

RUTH, R. H., and SILEN, R. R. Suggestions for getting more forestry in the logging plan. U. S. Forest Serv. Pacific Northwest Forest & Range Expt. Sta. Res. Note 72,15 p. Dec. 1950. 1.9 F7629Fr

U. S. FOREST SERV. Trinity National Forest, California. Washington? 1950. Map. 1 F765Ma



**U. S. FOREST SERV. FOREST PRODUCTS LABORATORY.** List of publications July 1 to December 31, 1950. Madison, 1951? 13 p. 1 F7692L

**U. S. FOREST SERV. FOREST PRODUCTS LABORATORY.** List of publications on wood preservation. U. S. Forest Serv. Forest Prod. Lab. Rpt. R704, 29 p. Nov. 1950. 1.9 F761R

**U. S. FOREST SERV. FOREST PRODUCT LABORATORY.** Reports dealing with aircraft available at the Forest Products Laboratory, Madison 5, Wisconsin. Rev. Madison, 1950. 11 p. 1.962 F6R29

**U. S. FOREST SERV. NORTHEASTERN FOREST EXPERIMENT STATION.** Forest statistics for New Hampshire. U. S. Forest Serv. Noeast. Forest Expt. Sta. Forest Survey Release 9,56 p. Oct. 1950. 1.9622 N2F765

**U. S. FOREST SERV. PACIFIC NORTHWEST FOREST EXPERIMENT STATION.** Financial aspects of pruning, by E. W. Shaw and G. R. Staebler. Portland, 1950. 45 p. Ref. 1.9622 P2F49

**U. S. FOREST SERV. PACIFIC NORTHWEST FOREST EXPERIMENT STATION.** A guide for forest soil examination in the Douglas-fir region, by R. F. Tarrant. Rev. Portland, Oreg., 1950. 32 p. 1.9622 P2G94

**U. S. FOREST SERV. ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION.** Manitou Experimental Forest; guide and general information for Range field day, September 13, 1950. Fort Collins, 1950. 15 p. 1.9622 R2M31

**U. S. FOREST SERV. SOUTHEASTERN FOREST EXPERIMENT STATION.** Bibliography of the Southeastern Forest Experiment Station for the calendar year 1950. Asheville, 1951. 7 p. 1.9622 S4B472

**U. S. FOREST SERV. SOUTHERN FOREST EXPERIMENT STATION.** Thirteenth annual cut, good farm forestry forty. Crossett, Ark., 1950. 6 p. 1.9622 S2On2

**U. S. FOREST SERV. SOUTHWESTERN FOREST AND RANGE EXPERIMENT STATION.** Ranch Day, October 9, 1950. Tucson? 1950. 26 p. 1.9622 S3So81

**WATTS, L. F.** Forests and wildlife. Washington, U. S. Forest Serv., 1950. 4 p. 1.962 A2W34

Address at meeting of the Southeastern Association of Game and Fish Commissioners, Richmond, Oct. 16, 1950.

**WATTS, L. F.** The role of forests and foresters in our national economy. Washington, U. S. Forest Serv., 1950. 6 p. 1.962 A2W34

Address at Golden Anniversary Meeting of Society of American Foresters, Washington, D. C., Dec. 16, 1950.

#### HUMAN NUTRITION AND HOME ECONOMICS, BUREAU OF

**U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS.** Family clothing inventories by age, Minneapolis-St. Paul, Minn., 1948-49. U. S. Bur. Human Nutr. & Home Econ. Studies Family Clothing Supplies. Prelim. Rpt. 3,29 p. Jan. 1951. 1.982 T2st9

**U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS.** Pointers on freezing yeast and quick breads, pies, cookies, and cake. Washington, 1950? 3 p. 1.982 A2P75

**U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS.** Seasonal patterns of food consumption, city families, 1948. U. S. Bur. Human Nutr. & Home Econ. Spec. Rpt. 3,16 p. Feb. 1951. 1.982 A2F7382

#### INFORMATION, OFFICE OF

**U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION.** Changes in livestock numbers, by A. Nordquist, G. Simpson, and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11

**U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION.** Electricity can help boost farm output, by C. R. Wickard, G. E. Dillon and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11

**U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION.** 4-Her's work for a better world, by J. Sikes, J. D. Tonkin, and others. Washington, 1951. 4 p. 1.914 R2R11

**U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION.** Frozen concentrated orange juice, by L. G. MacDowell, M. K. Veldhuis, T. B. Swann, and T. McGinty. Washington, 1951. 4 p. 1.914 R2R11

**U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION.** Industrial uses for farm products, by R. T. Milner, R. W. Jackson, J. C. Cowan, and B. Burton. Washington, 1951. 4 p. 1.914 R2R11

**U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION.** More beef from heavier calves, by T. C. Byerly, R. Hodgson and M. Bliss. Washington, 1951. 4 p. 1.914 R2R11

**U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION.** New styles in grass, by W. M. Myers, M. A. Hein, and K. N. Gapen. Washington, 1951. 4 p. 1.914 R2R11

**U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION.** Save those baby pigs, by J. Zeller, H. W. Schoening, and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11

#### LIBRARY

**DAY, E. L., and BIEN, C., comp.** Farm, home, and community uses of electricity. U. S. D. A. Libr., Libr. List 54,30 p. Feb. 1951. 1.916 L612

#### PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING, BUREAU OF

**HAMILTON, J.** Onion production under sprinkler irrigation Yuma Mesa, Arizona. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Div. Soil Mangt. & Irrig. Res. Rpt. 205,17 p. Feb. 15, 1951. 1.965 S4R312

**HRUSCHKA, H. W., and KAUFMAN, J.** Storage tests with prepackaged cranberries. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 235,3 p. Feb. 1951. 1.9 P772Ht

**KELLOGG, C. E.** Scientists creating opportunities for world abundance. Washington, U. S. Bur. Plant Indus., Soils, & Agr. Engin., 1951. 18 p. 1.965 S6K29  
Address before the Michigan Academy of Science, Arts, and Letters, East Lansing, Mar. 23, 1951.

**MOGEN, C. A., and others.** Soil survey of the Idaho Falls area, Idaho. U. S. Bur. Plant Indus. Soils & Agr. Engin. Soil Survey 1939(8),69 p. Dec. 1950. 1 So32F  
E. N. Poulson, A. E. Poulson, E. J. Van Slyke, and W. E. Colwell, joint authors.

**REDIT, W. H., RADSPINNER, W. A., and WIANT, J. S.** Ripening pears in transit in fan cars. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 234,7 p. Mar. 1951. 1.9 P772Ht

**U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING.** Cottonseed treatment especially important this year, by J. T. Presley and R. J. Haskell. Washington, U. S. Ext. Serv., 1951. 4 p. 1.913 P3C82

**U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING.** Sound land classification rests on soil surveys. Beltsville, 1950. folder. 1 P69So

#### PRODUCTION AND MARKETING ADMINISTRATION

**CALIFORNIA PMA STATE OFF.** Annual report, 1949. Berkeley, 1950. 67 p. 1.42 W52An  
Similar report from Oregon.

**U. S. PRODUCTION AND MARKETING ADMIN.** Butter—total receipts at Atlanta, Ga. for year 1950, by rail and truck. Atlanta, 1951. 10 p. 1.956 A2B982

**U. S. PRODUCTION AND MARKETING ADMIN.** Cheese—total receipts at Atlanta, Ga. for year 1950. Atlanta, 1951. 2 p. 1.956 A2C41

Also report of receipts at Chicago. 1.9422 D8T642; at Los Angeles. 1.9422 D8T642L; at San Francisco. 1.9422 D8T642S.

**U. S. PRODUCTION AND MARKETING ADMIN.** Consumer food subsidy programs in World War II. Washington, 1951. 9 p. 1.956 A2C765

**U. S. PRODUCTION AND MARKETING ADMIN.** Domestic wool: monthly average prices at Boston, 1944-45. Washington, 1950. 1 p. 1.9422 L8D71Bg

**U. S. PRODUCTION AND MARKETING ADMIN.** Dressed poultry—total receipts at Atlanta, Ga. for year 1950. Atlanta, 1951. 2 p. 1.956 A2D81

Also report of receipts at Los Angeles. 1.9422 Po8T6L; at San Francisco. 1.9422 Po8T64S.



U. S. PRODUCTION AND MARKETING ADMIN.  
Eggs—total receipts at Atlanta, Ga. for year 1950. Atlanta, 1951. 2 p. 1.956 A2Eg36  
Also report of receipts at Los Angeles.  
1.9422 Po8T642L; at San Francisco. 1.9422 Po8T642S.

U. S. PRODUCTION AND MARKETING ADMIN.  
Eleven years of conservation progress, (Stanley County, South Dakota). Washington, 1950? 4 p. 1.956 F45EL2

U. S. PRODUCTION AND MARKETING ADMIN.  
Facts about the present cotton situation and the need for increased production in 1951. Washington, 1950. 18 p. 1.956 C82F11

U. S. PRODUCTION AND MARKETING ADMIN.  
Feedstuff production for designated periods in 1,000 tons. Memphis, 1950. 1 p. 1.956 G76F323

U. S. PRODUCTION AND MARKETING ADMIN.  
The fertilizer situation for 1950-51, by L. G. Porter and T. H. Tremearne. Washington, 1951. 5 p. 1.9424 M2F41

U. S. PRODUCTION AND MARKETING ADMIN.  
Live poultry—total receipts at Atlanta, Ga., for year 1950. Atlanta, 1951. 2 p. 1.956 A2L74

U. S. PRODUCTION AND MARKETING ADMIN.  
Official United States standards for grades of carcass beef. Reprinted with amendments. U. S. Prod. & Mktg. Admin. S. R. A.-P. M. A. 99, 8 p. Dec. 1950. 1 M34S

U. S. PRODUCTION AND MARKETING ADMIN.  
A survey of the capacity of refrigerated storage warehouses in the United States as of October 1, 1949. Washington, 1950. 33 p. 1.9 Ec7Tab

U. S. PRODUCTION AND MARKETING ADMIN.  
Total receipts of butter at Chicago, Illinois for year 1950 Chicago, 1951? 2 p. 1.9422 D8T64

Also report of receipts at Los Angeles. 1.9422 D8T64L; at San Francisco. 1.9422 D8T64S

WALSH, R. M. The world fats and oils situation. Washington, U. S. Prod. & Mktg. Admin., 1951. 4 p. 1.941 A2W16

Address, Third Annual Tri-State Soybean Conference of Processors and Agronomists from Illinois, Indiana, Ohio, at University of Illinois, Mar. 22, 1951.

#### RURAL ELECTRIFICATION ADMINISTRATION

U. S. RURAL ELECTRIFICATION ADMIN. Status report on pin insulator failures. Washington? 1950. 4 p. 1.933 St262

#### SECRETARY, OFFICE OF

BRANNAN, C. F. The food situation. Washington, U. S. D. A., Off. Sec., 1951. 10 p. 1.91 A2B73  
Address at Food Trades Luncheon, National Retail-Owned Grocers, Inc., Chicago, Feb. 19, 1951.

BRANNAN, C. F. Mobilizing our farm power. Washington, U. S. D. A., Off. Sec., 1951. 12 p. 1.91 A2B73  
Talk at meeting of the National Rural Electric Cooperative Association, Cleveland, Jan. 30, 1951.

BRANNAN, C. F. Working together for conservation. Washington, U. S. D. A., Off. Sec., 1951. 12 p. 1.91 A2B73

Talk at annual meeting of National Association of Soil Conservation Districts, Oklahoma City, Feb. 20, 1951.

LEHMAN, D. J. Agricultural conservation in New England and New York. Washington, U. S. D. A., Off. Sec., 1951. 4 p. 1.91 A2L52

Summary of statement delivered at the first regular meeting of the New England-New York Inter-Agency Committee at Boston, Jan. 23, 1951.

MCCORMICK, C. J. For a better life to come. Washington, U. S. D. A., Off. Sec., 1951. 6 p. 1.91 A2M132

Talk at dedication of National 4-H Club Center, Washington, D. C., Feb. 14, 1951.

MCCORMICK, C. J. The Nation is counting on you. Washington, U. S. D. A., Off. Sec., 1951. 13 p. 1.91 A2M132

Talk at State PMA meeting, Mandan, N. Dak., Feb. 7, 1951.

MINOR, W. A. Grass: crop of plenty. Washington, U. S. D. A., Off. Sec., 1951. 14 p. 1.91 A2M66

Talk at the Southern Great Plains Council Meeting, Amarillo, Tex., Mar. 1, 1951.

MINOR, W. A. Grasslands for abundance. Washington, U. S. D. A., Off. Sec., 1951. 8 p. 1.91 A2M66  
Talk at annual convention of the Association of Southern Agricultural Workers, Memphis, Feb. 6, 1951.

OVERBY, E. J. Defense situation and agriculture. Washington, U. S. D. A., Off. Sec., 1951. 13 p. 1.91 A2Ov22

Talk before Northern Great Plains Council, Lincoln, Mar. 21, 1951.

#### SOIL CONSERVATION SERVICE

BENNETT, H. H. Conservation—development—self government through districts. Washington, U. S. Soil Conserv. Serv., 1951. 10 p. 1.96 Ad62

Address, annual meeting National Association of Soil Conservation Districts, Oklahoma City, Feb. 22, 1951.

BENNETT, H. H. Forging ahead in soil and water conservation. Washington, U. S. Soil Conserv. Serv., 1951. 10 p. 1.96 Ad62

Address at premier showing of motion picture, Neighbors of the land, The Oliver Corporation, Vandalia, Ill., Mar. 12, 1951.

BENNETT, H. H. Relation of soil erosion to coastal waters. Washington, U. S. Soil Conserv. Serv., 1951. 13 p. 1.96 Ad62

Address, Fourth Semi-Annual Seminar Texas Game, Fish, and Oyster Commission's Marine Laboratory, Rockport, Mar. 22, 1951.

MOODY, J. E., LILLARD, J. H., and EDMISTER, T. W. Plant nutrient studies under mulch tillage. Washington? U. S. Soil Conserv. Serv., 1950. 12 p. 1.96 Ad6PL

Virginia Agricultural Experiment Station cooperating. Presented before the Soil Conservation Section, American Society of Agronomy Meetings, Cincinnati, Nov. 1950.

NORTON, E. A. Watershed protection and increased production through soil and water conservation. Washington, U. S. Soil Conserv. Serv., 1951. 9 p. 1.96 Su7N

Talk at annual meeting of the Mississippi Valley Association, Feb. 13, 1951, St. Louis.

U. S. SOIL CONSERVATION SERV. Summaries of annual reports of research project supervisors for calendar year 1949, by G. R. Stewart. Washington, 1950. 122 p. 1.96 Su6

U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Sooner or later, soil conservation for your farm. Milwaukee, 1950. 8 p. 1.9605 Sof

#### SOLICITOR, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF THE SOLICITOR. Summary of the marketing quota provisions of the Agricultural Adjustment Act of 1938, as amended. Washington, 1951. 29 p. 1.918 Su64



STATE AGRICULTURAL EXPERIMENT STATION  
PUBLICATIONS

May 1951

Includes State Agricultural Experiment Station publications received in the library during the preceding month.

Publications issued by the State Agricultural Experiment Stations are not available from the U. S. Department of Agriculture but are often available from the publishing experiment station.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Alaska Agricultural Experiment Station, College

MICK, A. H., HODGSON, H. J., and LITZEN-BERGER, S. C. General recommendations, fertilizers for Alaska, 1951. Alaska Agr. Expt. Sta. C. 13,12 p.-folder. Jan.1951. 100 AL122E

Arizona Agricultural Experiment Station, Tucson

ARIZONA. AGRICULTURAL EXPERIMENT STATION. Fifth annual report, economic poisons. Ariz. Agr. Expt. Sta. Spec. B.,33 p. Feb.1951. 100 Ar4

California Agricultural Experiment Station, Berkeley

WANTRUP, S. V. Dollars and sense in conservation. Calif. Agr. Expt. Sta. C. 402,39 p. Jan.1951. 100 C12S

CALIFORNIA agriculture 4(12);5(1-3),16 p. each. Dec.1950-Mar.1951. 100 C12Cag

Connecticut (State) Agricultural Experiment Station, New Haven

ANDERSON, P. J., and SWANBACK, T. R. Fumigation of tobacco soils in the seedbed and in the field. Conn. (State) Agr. Expt. Sta. B. 542,23 p. Jan. 1951. 100 C76St

TURNER, N. Control of tobacco insects. Conn. (State) Agr. Expt. Sta. C. 179,16 p. Dec.1950. 100 C76St

Georgia Agricultural Experiment Station, Experiment

SAVAGE, E. F., and COWART, F. F. Report of the 1950 spraying experiments for the control of plum curculio [*Conotrachelus nenuphar*] and other insects on peaches. Ga. Agr. Expt. Sta. Mimeog. Ser. 33,7 p. Oct. 23,1950. 100 G29M

BECKHAM, C. M., and DUPREE, M. Progress report, cotton insect control experiments, 1950. Ga. Agr. Expt. Sta. Mimeog. Ser. 34,25 p. Dec.1950. 100 G29M

COWART, F. F. 1951 cotton insect control recommendations for Georgia. Ga. Agr. Expt. Sta. Press B. 627,5 p. Jan.2,1951. 100 G29P

SHELOR, E., and SIEWERT, S. W. Preparing foods for freezing. Ga. Agr. Expt. Sta. Press B. 628,2 p. Feb.23,1951. 100 G29P

SHELOR, E., and SIEWERT, S. W. Thawing and cooking frozen products. Ga. Agr. Expt. Sta. Press B. 629,2 p. Feb.23,1951. 100 G29P

OLSON, L. C., and BROGAN, D. Soil acidity and its importance in the growth of Azaleas, Camellias and other ornamentals. Ga. Agr. Expt. Sta. Press B. 630, 4 p. Mar.6,1951. 100 G29P

RESEARCH news 3(1),4 p. Jan.1951. 100 G29R

Georgia Coastal Plain Experiment Station, Tifton

GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Year-round management of four brood sows. Ga. Coastal Plain Expt. Sta. Mimeog. Paper 73,3 p. Jan. 1951. 100 G292M

Hawaii Agricultural Experiment Station, Honolulu

ELLIOTT, R. Winter vegetables for West Coast markets. Hawaii. Agr. Expt. Sta. Agr. Econ. Rpt. 3,110 p. Nov.1950. 275.29 H312Ae

HAWAIIAN SUGAR PLANTERS' ASSOCIATION. EXPERIMENT STATION COMMITTEE: 1950 report. Honolulu?1950? 59 p. 100 H31R

Idaho Agricultural Experiment Station, Moscow

IDAHO. AGRICULTURAL EXPERIMENT STATION. Halogeton—intermountain range menace. Idaho. Agr. Expt. Sta. C. 117,4 p. Feb.1951. 100 Id1

Illinois Agricultural Experiment Station, Urbana

BAUMAN, L. F., and others. Experimental corn hybrids; 1950 tests. Ill. Agr. Expt. Sta. B. 543:75-99. Feb.1951. 100 IL6S

R. W. Jugenheimer, C. M. Woodworth, D. E. Alexander, and B. Koehler, joint authors.

PENDLETON, J. W., and others. 1950 Illinois tests of corn hybrids in wide use. Ill. Agr. Expt. Sta. B. 544:103-136. Feb.1951. 100 IL6S

G. H. Dungan, B. Koehler, J. H. Bigger, A. L. Lang, R. W. Jugenheimer, and G. E. McKibben, joint authors.

Indiana Agricultural Experiment Station, Lafayette

JONGEDYK, H. A., and others. Subsidence of muck soils in northern Indiana. Ind. Agr. Expt. Sta. C. 366,11 p. Nov.1950. 100 In2P

R. B. Hickok, I. D. Mayer, and N. K. Ellis, joint authors.

Iowa Agricultural Experiment Station, Ames

HUTCHCROFT, C. D., and ROBINSON, J. L. 1950 Iowa corn yield test. Iowa. Agr. Expt. Sta. B. P110: 690-736. Feb.1951. 100 Io9

HURLBURT, V. L. Buying of farms in Story County, Iowa, 1940-48. Iowa. Agr. Expt. Sta. Res. B. 378:981-1015. Dec.1950. 100 Io9

IOWA. AGRICULTURAL EXPERIMENT STATION. Teamwork toward better land use and soil conservation in western Iowa. Iowa. Agr. Expt. Sta. Spec. Rpt. 4,27 p. July 1950. 100 Io9Sp

Iowa Agricultural Extension Service and U. S. Department of Agriculture cooperating.

CLEM, M. A., and FEDERER, W. T. Random arrangements for lattice designs. Iowa. Agr. Expt. Sta. Spec. Rpt. 5,151 p. Ref. Sept.1950. 100 Io9Sp

Kansas Agricultural Experiment Station, Manhattan

NABOURS, R. K., and STEBBINS, F. M. Cytogenetics of the grouse locust *Apotettix eurycephalus* Hancock [i. e. *Paratettix rugosus* (Scudd.)]. Kans. Agr. Expt. Sta. Tech. B. 67,116 p. Ref. Apr.1950. 100 K13S

KANSAS. AGRICULTURAL EXPERIMENT STATION. Fifteenth biennial report, 1948/50. Manhattan,1950. 122 p. 100 K13S

Maine Agricultural Experiment Station, Orono

SCHRUMPF, W. E. Effect of potato acreage adjustments on farm practices in Aroostook County, Maine, 1948 and 1949. Maine. Agr. Expt. Sta. B. 485, 67 p. Sept.1950. 100 M28S

LITTLEFIELD, L., and MURPHY, E. 1950 vegetable variety trials. Maine. Agr. Expt. Sta. Mimeog. Rpt. 14,14 p. Jan.1951. 100 M28M

Massachusetts Agricultural Experiment Station, Amherst

MASSACHUSETTS FEED CONTROL SERV. Inspection of commercial feedstuffs. Mass. Agr. Expt. Sta. Control Ser. B. 144,27 p. May 1950. 100 M38H



**MASSACHUSETTS. FERTILIZER CONTROL SERV.** Inspection of commercial fertilizers and agricultural lime products. Mass. Agr. Expt. Sta. Control Ser. B. 145,15 p. July 1950. 100 M38H

**MASSACHUSETTS. POULTRY DISEASE CONTROL LABORATORY.** Thirtieth annual report of pul-lorum disease eradication in Massachusetts. Mass. Agr. Expt. Sta. Control Ser. B. 146,11 p. July 1950. 100 M38H

Michigan Agricultural Experiment Station, East Lansing

HILL, E. B., and HARRIS, M. Family farm-operating agreements. Mich. Agr. Expt. Sta. Spec. B. 368,38 p. Jan.1951. 100 M58S

CRABB, G. A., JR. Solar radiation investigations in Michigan. Mich. Agr. Expt. Sta. Tech. B. 222,153 p. Ref. p. 75-153. Oct.1950. 100 M58S

Mississippi Agricultural Experiment Station, State College

**MISSISSIPPI. AGRICULTURAL EXPERIMENT STATION.** Corn hybrids and varieties in Mississippi, 1950 tests. Miss. Agr. Expt. Sta. B. 478,19 p. Jan.1951. 100 M69

WELCH, F. J. Crop and fertilizer recommendations for Mississippi, 1951. Miss. Agr. Expt. Sta. C. 156,19 p. Nov.1950. 100 M69

CROWE, G. B. Tractor machinery: costs and performance. Miss. Agr. Expt. Sta. C. 157,7 p. Jan.1951. 100 M69

OVERCASH, J. P., and others. Effects of mild winters on peach trees in Mississippi. Miss. Agr. Expt. Sta. Inform. Sheet 457,2 p. Dec.1950. 100 M69In

J. A. Campbell, B. C. Hurt, and S. P. Crockett, joint authors.

MISSISSIPPI farm research 13(12);14(1-2), 8 p. each. Dec.1950-Feb.1951. 100 M69Mi

Nebraska Agricultural Experiment Station, Lincoln

**NEBRASKA. UNIVERSITY. DEPT. OF AGRICULTURAL ENGINEERING.** Summary of results of the Nebraska tractor tests. Nebr. Agr. Expt. Sta. B. 397 (sup.), folder. Jan.1,1951. 100 N27

New Jersey Agricultural Experiment Station, New Brunswick

THOMPSON, W. C. Why do some poultry farms fail? Hints Poultrymen [N. J. Sta.] 33(4),4 p. Feb.1951. 100 N46S

New York (Cornell) Agricultural Experiment Station, Ithaca

UHLER, L. D. Biology and ecology of the goldenrod gall fly, *Eurosta solidaginis* (Fitch). N. Y. (Cornell) Agr. Expt. Sta. Mem. 300,51 p. Ref. Feb.1951. 100 N48C

New York (State) Agricultural Experiment Station, Geneva

**NEW YORK (STATE). AGRICULTURAL EXPERIMENT STATION.** Sixty-ninth annual report, 1949/50 Geneva,1951. 51 p. 100 N48

FARM research 17(1),16 p. Jan.1951. 100 N48A

North Carolina Agricultural Experiment Station, State College Station, Raleigh

WILSON, R. W. The clip-oil for controlling tobacco suckers. N. C. Agr. Expt. Sta. Dept. Agr. Engin. Inform. Ser. 3,16 p. Oct.1950. 58.9 N812

North Dakota Agricultural Experiment Station, State College Station, Fargo

**NORTH DAKOTA. AGRICULTURAL EXPERIMENT STATION.** North Dakota's agricultural progress through research; annual report. N. Dak. Agr. Expt. Sta. B. 365,93 p. Jan.1951. 100 N813

BIMONTHLY bulletin 13:94-135. Jan./Feb. 1951. 100 N813B

Ohio Agricultural Experiment Station, Wooster

GOULD, W. A. Quality evaluation of fresh, frozen and canned snap beans. Ohio. Agr. Expt. Sta. Res. B. 701,39 p. Ref. Feb.1951. 100 Oh3S

OHIO farm and home research 35:75-80. Nov./Dec.1950. 100 Oh3S

Oklahoma Agricultural Experiment Station, Stillwater

GREEN, J. M., and others. Cotton variety tests in Oklahoma, 1950. Okla. Agr. Expt. Sta. Mimeog. C. 208,7 p. Jan.1951. 100 Ok4M

I. M. Parrott, N. M. Gober, Jr., and M. G. Keathley, joint authors.

DAHMS, R. G., and FENTON, F. A. Recognition and control of greenbugs [*Toxoptera graminum*] and other early-appearing pests of wheat. Okla. Agr. Expt. Sta. Mimeog. C. M.-209,3 p. Jan.1951. 100 Ok4M

**OKLAHOMA. AGRICULTURAL EXPERIMENT STATION.** Biennial report, 1948-50. I. Science serving agriculture. Stillwater,1950. 61 p. 100 Ok4

Oregon Agricultural Experiment Station, Corvallis

PAGE, G. E. Weed spraying equipment. Oreg. Agr. Expt. Sta. B. 493,24 p. Jan.1951. 100 Or3

MILLER, R. C., KOLSHORN, A. M., and WEIGAND, E. H. Freezing cooked and prepared foods. Oreg. Agr. Expt. Sta. B. 494,15 p. Jan.1951. 100 Or3

YOUNG, R. A., and MILBRATH, J. A. Bacterial ring rot of potatoes. Oreg. Agr. Expt. Sta. C. Inform. 491,5 p. Jan.1951. 100 Or3C

Pennsylvania Agricultural Experiment Station, State College

MOWERY, A. S., BRESSLER, G. O., and SPRAGUE, D. C. A mechanical cleaner for poultry droppings pits. Pa. Agr. Expt. Sta. Prog. Rpt. 37,4 p. Oct. 1950. 100 P381P

ODLAND, M. L. Influence of plant spacing on yield of snap beans. Pa. Agr. Expt. Sta. Prog. Rpt. 38, 4 p. Nov.1950. 100 P381P

DRAWBAUGH, C. C., and MOWERY, A. S. Plywood self-feeder for swine. Pa. Agr. Expt. Sta. Prog. Rpt. 39,4 p. Nov.1950. 100 P381P

South Dakota Agricultural Experiment Station, Brookings

MOXON, A. L., and others. Grass hay at its best as shown by chemical analysis and feeding value. S. Dak. Agr. Expt. Sta. B. 405,23 p. Jan.1951. 100 So82

G. Gastier, G. E. Staples, and R. M. Jordan, joint authors.

GRAFIUS, J. E. Pierre rye. S. Dak. Agr. Expt. Sta. B. 406,4 p. Jan.1951. 100 So82

WEAKLY, H. E., and NELSON, L. B. Irrigated crop rotations on the clay soils of western South Dakota. S. Dak. Agr. Expt. Sta. C. 83,23 p. Dec.1950. 100 So82

SIANK, D. B., and NACHTIGAL, G. E. South Dakota corn performance tests, 1950. S. Dak. Agr. Expt. Sta. C. 84,16 p. Feb.1951. 100 So82



Tennessee Agricultural Experiment Station, Knoxville

DOWNEN, M. L. Seasonal costs of producing and marketing fluid milk in the milkshed of Chattanooga, Tennessee, 1949-50. Tenn. Agr. Expt. Sta. Rur. Res. Ser. Monog. 263, 38 p. Jan. 25, 1951. 173.2 W89Co

GARBARINO, A. J., and BROWN, C. H. Seasonality of supply and utilization of milk in Tennessee, 1949. Tenn. Agr. Expt. Sta. Rur. Res. Ser. Monog. 264, 41 p. Feb. 13, 1951. 173.2 W89Co

Texas Agricultural Experiment Station, College Station

REYNOLDS, E. B., JOHNSON, P. R., and MORRIS, H. F. Hairy vetch, bur clover and oats as soil-building crops for cotton and corn in Texas. Tex. Agr. Expt. Sta. B. 371, 23 p., Ref. Dec. 1950. 100 T31S

ATKINS, I. M. Mustang oats. Tex. Agr. Expt. Sta. B. 728, 10 p. Oct. 1950. 100 T31S

MONCRIEF, J. B., and WEIHING, R. M. Rapid, low-cost conversion from rice to improved pastures. Tex. Agr. Expt. Sta. B. 729, 14 p. Oct. 1950. 100 T31S

MCDONALD, J. E., and FUDGE, J. F. Agricultural insecticides and fungicides in Texas, 1949-1950. Tex. Agr. Expt. Sta. C. 127, 15 p. Dec. 1950. 100 T31S

DENMAN, T. E. The control of peach insects in the West Cross Timbers. Tex. Agr. Expt. Sta. Prog. Rpt. 1305, 3 p. Dec. 20, 1950. 100 T31P

ALEX, A. H., THOMAS, F. L., and WARNE, B. Importance of bees in vetch seed production. Tex. Agr. Expt. Sta. Prog. Rpt. 1306, 3 p. Dec. 26, 1950. 100 T31P

COOK, E. D., and others. The effect of fertilizer and spacing of plants on the yield of corn at Kirbyville, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1307, 5 p. Dec. 26, 1950. 100 T31P

J. C. Smith, L. E. Crane, and R. P. Bates, joint authors. BRITTINGHAM, W. H. Purple Hull No. 49, a new variety of Southern pea. Tex. Agr. Expt. Sta. Prog. Rpt. 1313, 5 p. Jan. 22, 1951. 100 T31P

BRITTINGHAM, W. H. Extra Early Blackeye, a reintroduced variety of Southern pea. Tex. Agr. Expt. Sta. Prog. Rpt. 1314, 3 p. Jan. 29, 1951. 100 T31P

HUTSON, H. C., and SMITH, J. C. The effect of fertilizers on the yield of corn and sorghum at Nacogdoches. Tex. Agr. Expt. Sta. Prog. Rpt. 1315, 1 p. Jan. 29, 1951. 100 T31P

HARGROVE, B. D., and HILL, H. O. Anhydrous ammonia fertilizer tests on various crops at Bluebonnet Farm, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1316, 3 p. Jan. 29, 1951. 100 T31P

MAXWELL, N. P., and LEEPER, P. W. Sweet corn variety tests in the Lower Rio Grande Valley, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1317, 2 p. Jan. 30, 1951. 100 T31P

STIVER, E. N., REA, H. E., and JOHNSTON, J. R. Chemical control of Johnson grass at the Blackland Station, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1318, 2 p. Feb. 2, 1951. 100 T31P

STIVER, E. N., JONES, D. L., and JOHNSTON, J. R. Cotton defoliation tests at the Blackland Station, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1319, 2 p. Feb. 5, 1951. 100 T31P

FISHER, C. E., YOUNG, D. W., and MARION, P. T. Control of mesquite. Tex. Agr. Expt. Sta. Prog. Rpt. 1320, 7 p. Feb. 5, 1951. 100 T31P

KNAPP, W. C., and others. Brahman-Hereford crosses for slaughter calf production. Tex. Agr. Expt. Sta. Prog. Rpt. 1321, 4 p. Feb. 5, 1951. 100 T31P

J. H. Jones, J. K. Riggs, and O. D. Butler, joint authors.

ROBERTS, J. E., and others. Slaughter calf production in the Brazos Valley near College Station. Tex. Agr. Expt. Sta. Prog. Rpt. 1322, 3 p. Feb. 6, 1951. 100 T31P

O. D. Butler, J. H. Jones, and F. A. Wolters, joint authors.

DAVIS, D. R. An experiment in informal community organization. Tex. Agr. Expt. Sta. Prog. Rpt. 1323, 3 p. Feb. 7, 1951. 100 T31P

YOUNG, P. A. Golden Sphere, a new potato variety. Tex. Agr. Expt. Sta. Prog. Rpt. 1324, 1 p. Feb. 10, 1951. 100 T31P

FUDGE, J. F. Distribution of fertilizer sales in Texas, July 1-December 31, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1325, 2 p. Feb. 14, 1951. 100 T31P

HUTSON, H. C., and SMITH, J. C. The effect of different amounts and combinations of nitrogen, phosphoric acid and potash on the yield and quality of sweet potatoes at Nacogdoches. Tex. Agr. Expt. Sta. Prog. Rpt. 1326, 3 p. Feb. 14, 1951. 100 T31P

COOK, E. D., and others. The effect of nitrogen, phosphorus and potassium on the yield of forage and grain from Camellia oats. Tex. Agr. Expt. Sta. Prog. Rpt. 1327, 3 p. Feb. 19, 1951. 100 T31P

J. C. Smith, L. E. Crane and R. P. Bates, joint authors. CAIN, R. F. Quick-freezing tests with southern peas. Tex. Agr. Expt. Sta. Prog. Rpt. 1328, 3 p. Feb. 20, 1951. 100 T31P

CAIN, R. F. Southern pea varieties for canning. Tex. Agr. Expt. Sta. Prog. Rpt. 1329, 3 p. Feb. 20, 1951. 100 T31P

BRITTINGHAM, W. H., MAXWELL, N. P., and PERRY, B. A. Texas 107, a new variety of green sprouting broccoli. Tex. Agr. Expt. Sta. Prog. Rpt. 1331, 3 p. Feb. 24, 1951. 100 T31P

PORTER, K. B., and WHITFIELD, C. J. Sorghum varieties for the hard lands of the Texas Panhandle. Tex. Agr. Expt. Sta. Prog. Rpt. 1332, 3 p. Feb. 20, 1951. 100 T31P

TEXAS. AGRICULTURAL EXPERIMENT STATION. Agricultural research in Texas, 1947-49. College Station, 1950? 201 p. 100 T31S

Washington Agricultural Experiment Station, Pullman

KELLENBARGER, S., ALBROOK, R. L., and HARRINGTON, A. H. Safflower; agronomic, processing and economic data. Wash. Agr. Expt. Sta. B. 521, 22 p. Jan. 1951. 100 W27E

Wyoming Agricultural Experiment Station, Laramie

WYOMING. AGRICULTURAL EXPERIMENT STATION. Sixtieth annual report, 1949-50, by J. A. Hill and G. Jenny. Laramie, 1950. 56 p. 100 W99



STATE AGRICULTURE EXTENSION SERVICE  
PUBLICATIONS

Includes State Agricultural Extension Service publications received in the library during the preceding month.

Publications issued by the State Agricultural Extension Services are not available from the U. S. Department of Agriculture but are often available from the publishing extension service.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Arizona University, College of Agriculture, Agricultural Extension Service, Tucson

TATE, H. F., and HILGEMAN, R. H. Dates in Arizona. Ariz. Agr. Col. Ext. C. 165, 31 p. Sept. 1950. 275.29 Ar42

California University, College of Agriculture, Agricultural Extension Service, Berkeley

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. First annual walnut management study, Tulare County, by B. B. Burlingame and C. Ferris. Berkeley, 1950. 6 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Freestone peach management study, Solano County; first annual report crop year, 1950, by B. B. Burlingame. Berkeley? 1950? 4 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Fresno County chicken meat study, 1950, by R. Houck and B. B. Burlingame. Berkeley, 1950. 6 p. 275.29 C12En

Connecticut University, College of Agriculture, Agricultural Extension Service, Storrs

CONNECTICUT. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Apple spray guide, 1951, by F. D. Johanson, P. Garman, and E. M. Stoddard. Storrs, 1951. 4 p. 275.29 C76Ap

Delaware University, School of Agriculture, Extension Service, Newark

DELAWARE. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Fruit spray schedules for 1950. Del. U. Agr. Ext. C. 61, 7 p. Feb. 1950. 275.29 D37C

CALVERT, W. A., JR. Fresh air for the dairy stable. Del. U. Agr. Ext. Folder 18, 6 p. Jan. 1950. 275.29 D37W

STEVENS, R. F. Vegetables for processing in 1950. Del. U. Agr. Ext. Folder 19, 4 p. Mar. 1950. 275.29 D37W

STEVENS, R. F. Let's grow cucumbers for processing and marketing. Del. U. Agr. Ext. Folder 20, 5 p. Apr. 1950. 275.29 D37W

MCHENRY, S. Vaccinate your flock. Del. U. Agr. Ext. Folder 21, 3 p. Apr. 1950. 275.29 D37W

Florida University, College of Agriculture, Agricultural Extension Service, Gainesville

WATKINS, J. V. Annual flowers. Fla. Agr. Col. Ext. B. 133, rev., 48 p. Oct. 1950. 275.29 F66

CAMP, A. F. Citrus propagation. Fla. Agr. Col. Ext. B. 139, rev., 48 p. Aug. 1950. 275.29 F66  
A revision of Bulletin 96.

Idaho University, College of Agriculture, Extension Service, Moscow

KNIGHT, W. H. Electric brooding on the farm. Idaho. Agr. Col. Ext. Farm Electrification. L. 9, 4 p. Feb. 15, 1950. 275.29 Id13Fa

JENSEN, M. C. Sprinkler irrigation in Idaho. Idaho. Agr. Col. Ext. Farm Electrification. L. 10, 4 p. May 15, 1950. 275.29 Id13Fa

IDAHO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 4-H Club farm electrification, by J. W. Martin and W. H. Knight. Moscow? n.d. 275.2 Id1Fo

Illinois University, College of Agriculture, Extension Service, Urbana

FUELLEMAN, R. F., and others. Soybean yields in 1949 variety trials. Ill. Agr. Col. Ext. C. 669, 4 p. Nov. 1950. 275.29 IL62C

W. L. Burlison, C. H. Farnham, G. E. McKibben, and P. E. Johnson, joint authors.

ALBERTS, J. O., and GRAHAM, R. Fowl cholera. Ill. Agr. Col. Ext. C. 670, 8 p. Nov. 1950. 275.29 IL62C

WRIGHT, J. M., and APPLE, J. W. How to know the common vegetable insects. Ill. Agr. Col. Ext. C. 671, 38 p. Nov. 1950. 275.29 IL62C

WRIGHT, J. M., and APPLE, J. W. Dusts and sprays for vegetable insects. Ill. Agr. Col. Ext. C. 672, 12 p. Nov. 1950. 275.29 IL62C

GRAHAM, R. Incubator hygiene for control of incubator-spread chick diseases. Ill. Agr. Col. Ext. C. 674, 7 p. Dec. 1950. 275.29 IL62C

MITCHELL, C. E., and HUELSEN, W. A. Growing melons in Illinois. Ill. Agr. Col. Ext. C. 675, 27 p. Dec. 1950. 275.29 IL62C

CHAMBERLAIN, D., and KOEHLER, B. Soybean diseases in Illinois. Ill. Agr. Col. Ext. C. 676, 31 p. Jan. 1951. 275.29 IL62C

NEVENS, W. B. Feeding the dairy herd. Ill. Agr. Col. Ext. C. 677, 36 p. Feb. 1951. 275.29 IL62C  
A revision of Circular 502.

POWELL, D., CHANDLER, S. C., and KELLEY, V. W. Pest control in commercial fruit plantings, 1951. Ill. Agr. Col. Ext. C. 678, 39 p. Jan. 1951. 275.29 IL62C  
A revision of Circular 653.

Indiana - Purdue University, Agricultural Extension Service, Lafayette

INDIANA. PURDUE UNIVERSITY AGRICULTURAL EXTENSION SERV. Cooperation in agriculture; thirty-seventh annual report, 1949. Lafayette, 1950? 87 p. 275.29 In2

Iowa State College of Agriculture, Agricultural Extension Service, Ames

NORTH CENTRAL TECHNICAL COMMITTEE ON ENTOMOLOGY. 1951 recommendations for insecticidal control of the European corn borer [*Pyrausta nubilalis*] in the North Central States. Iowa. State Col. Agr. Ext. Pam. 164, 4 p. Dec. 1950. 275.29 Io9Pa

Kentucky University, College of Agriculture and Home Economics, Extension Service, Lexington

KENTUCKY. UNIVERSITY. COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. The agricultural outlook for Kentucky, 1951. Lexington, 1951. 9 p. 275.29 K415A

Maryland University, Colleges of Agriculture and Home Economics, Extension Service, College Park

GRAHAM, C., and others. Maryland spray calendar for apples and peaches. Md. Agr. Col. Ext. B. 134, rev., 14 p. Feb. 1951. 275.29 M36B  
T. L. Bissell, L. O. Weaver, and A. F. Vierheller, joint authors.



MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Certified Kenland red clover. Md. Agr. Col. Ext. L. L-11, 8 p.-folder. Jan. 1951. 275.29 M36EL  
 VIERHELLER, A. F. Newer ideas in pruning. Md. Agr. Col. Ext. Mimeog. 14H, 9 p. Feb. 1950. 275.29 M36Em

MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Plant food recommendations for Maryland horticultural crops. Md. Agr. Col. Ext. Misc. P. 1, chart. Jan. 1, 1951. 275.29 M36Mis

MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Maryland agricultural outlook for 1951; demand, supply, prices. Md. Agr. Col. Ext. Misc. P. 2, 47 p. Feb. 1951. 275.29 M36Mis

MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Growing Christmas trees in Maryland. College Park, 1950. 10 p. 275.2 M36Gr

Massachusetts University, School of Agriculture, Extension Service, Amherst

MASSACHUSETTS. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Publications for farm and home. Mass. U. Agr. Ext. L. 104, rev., 8 p. Jan. 1951. 275.29 M381L

Nebraska University, College of Agriculture, Agricultural Extension Service, Lincoln

OLSON, E. A., and FOUTS, K. C. Portable livestock loading chute. Nebr. Agr. Col. Ext. Agr. Engin. Farm Bldg. 3, 3 p. Feb. 1951. 275.29 N272Ag

WELDON, M. D., and RINGLER, W. R. General fertilizer recommendations on irrigated land in Nebraska, 1951. Nebr. Agr. Col. Ext. CC-108, 4 p. 1951. 275.29 N272Cc

HUTCHINSON, D. E., and MCDUGAL, O. J., JR. Grass down field waterways. Nebr. Agr. Col. Ext. E. C. 165, rev., 4 p. Nov. 1950. 275.29 N272Ex

GROSS, D. L. Bromegrass in Nebraska. Nebr. Agr. Col. Ext. E. C. 191, 8 p. Sept. 1950. 275.29 N272Ex

JOHNSON, K. E. Milk producers' associations. Nebr. Agr. Col. Ext. E. C. 1319, 13 p. Dec. 1950. 275.29 N272Ex

AUBOL, W. F. Poultry rations and feeding. Nebr. Agr. Col. Ext. E. C. 1496, rev., 8 p. Feb. 1951. 275.29 N272Ex

HELM, R. W. Spring cankerworm [*Paleacrita vernata*] control in Nebraska. Nebr. Agr. Col. Ext. E. C. 1559, 2 p. Jan. 1951. 275.29 N272Ex

HILL, R. E., and STAPLES, R. Greenbugs [*Toxoptera graminum*] and their control in Nebraska. Nebr. Agr. Col. Ext. E. C. 1560, 2 p. 1951. 275.29 N272Ex

New Jersey State College of Agriculture and Mechanic Arts, Extension Service, Rutgers University, New Brunswick

BAYLOR, J. E. The New Jersey Green Pasture Program. N. J. Agr. Col. Ext. B. 257, 16 p. Jan. 1951. 275.29 N46

HANSENS, E. J. Mange on dairy cattle. N. J. Agr. Col. Ext. L. 46, 2 p. Dec. 1950. 275.29 N46L  
 BAYLOR, J. E. Field crop recommendations, 1951. N. J. Agr. Col. Ext. L. 47, 12 p. Dec. 1950. 275.29 N46L

NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 1951 spraying recommendations for apples. N. J. Agr. Col. Ext. Spray Calendar 44, 12 p. Feb. 1951. 275.29 N46Sp

NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 1951 spraying recommendations for peaches. N. J. Agr. Col. Ext. Spray Calendar 45, 8 p. Feb. 1951. 275.29 N46Sp

New York State College of Agriculture and Home Economics, Extension Service, Cornell University, Ithaca

WILSON, H. M., and KERR, H. A. Contour strip-cropping. N. Y. Agr. Col. Cornell Ext. B. 800, 15 p. Dec. 1950. 275.29 N48E

SHAULIS, N. Cultural practices for New York vineyards. N. Y. Agr. Col. Cornell Ext. B. 805, 47 p. Dec. 1950. 275.29 N48E

MILLS, W. D., and LAPLANTE, A. A. 1951 spray schedules for tree fruits. N. Y. Agr. Col. Cornell Ext. B. 812, 24 p. Feb. 1951. 275.29 N48E

SHAULIS, N., and DUGAN, D. R. Chemical weed control in the vineyard. N. Y. Agr. Col. Cornell Ext. B. 816, 6 p. Jan. 1951. 275.29 N48E

DUNN, M., and VOLLMER, E. Cakes, pies, yeast rolls, and bread. N. Y. Agr. Col. Ext. Cornell 4-H Club B. 93, 16 p. Sept. 1950. 275.29 N48Cn

ROSS, H. B. In-service training in conservation education. N. Y. Agr. Col. Ext. Cornell Misc. B. 9, 15 p. Jan. 1951. 275.29 N48Cm

PALMER, E. L. Winter lunches for wildlife. N. Y. Agr. Col. Ext. Cornell Rur. Sch. L. 44(3), 32 p. Winter 1950/51. 275.29 N48R

North Carolina University, State College of Agriculture and Engineering, Extension Service, State College Station, Raleigh

AREY, J. A., and DOBSON, S. H. A guide to better dairying. N. C. Agr. Col. Ext. C. 294, rev., 4 p. Oct. 1950. 275.29 N811

PIERCE, W. H., WILLIAMS, M. S., and LEE, W. D. Farming opportunities in North Carolina. N. C. Agr. Col. Ext. C. 355, 41 p. Oct. 1950. 275.29 N811  
 Based on and replaces Extension Circular 283.

KELLEY, J., and BUTLER, J. K., JR. 4-H swine production manual. N. C. Agr. Col. Ext. Club Ser. 4, rev., 14 p. Aug. 1950. 275.29 N811C

ALLEN, A. V. 4-H Club sheep manual. N. C. Agr. Col. Ext. Club Ser. 30, rev., 15 p. Oct. 1950. 275.29 N811C

SWAIN, V. S., and GRIMSLEY, C. J. Putting the 4-H pledge to work. N. C. Agr. Col. Ext. Club Ser. 71, 6 p.-folder. Nov. 1950. 275.29 N811C

MCIVER, J. Tailoring tips. N. C. Agr. Col. Ext. Misc. Pam. 122, rev., 12 p. Nov. 1950. 275.29 N811M

WILSON, S. V., and DUBOIS, R. Caloric chart for some everyday foods. N. C. Agr. Col. Ext. Misc. Pam. 130, 4 p. Nov. 1950. 275.29 N811M

Ohio State University, College of Agriculture, Agricultural Extension Service, Columbus

CHADWICK, L. C. The influence of several understocks on the growth of scions of some varieties of Juniperus. Ohio. Agr. Col. Ext. Nursery Notes 20(1), 6 p. Jan. 1951. 275.29 Oh32N

Oklahoma Agricultural and Mechanical College, Extension Division, Stillwater

WOODWARD, R. O. Taking soil samples for 4-H Club boys and adults. Okla. Agr. Col. Ext. C. 513, 4 p. n.d. 275.29 Ok41C

GARRETT, J. C. Home grounds beautification; a 4-H Club manual. Okla. Agr. Col. Ext. C. 544, 8 p. n.d. 275.29 Ok41C

Oregon State College, Federal Cooperative Extension Service, Corvallis

LINDGREN, H. A. Farm wastes as swine feeds. Oreg. State Col. Ext. B. 712, 12 p. Jan. 1951. 275.29 Or32B

PURNELL, D. C., and ROSS, C. R. Windbreaks for western Oregon. Oreg. State Col. Ext. B. 714, 18 p. Feb. 1951. 275.29 Or32B



Puerto Rico University, College of Agriculture, Extension Service, Rio Piedras

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Lista de publicaciones. Rio Piedras, 1950. 12 p. 275.29 P96Po

South Carolina, Clemson Agricultural College, Extension Service, Clemson

BARKER, W. J., and others. Longer life for fence posts. Clemson Agr. Col. S. C. Ext. C. 262, rev., 15 p. Nov. 1950. 275.29 So8E  
C. H. Stewart, W. C. Nettles, and G. H. Dunkelberg, joint authors.

LEWIS, J. M., and MATTISON, J. R. Tobacco plant production in South Carolina. Clemson Agr. Col. S. C. Ext. C. 291, rev., 18 p. Oct. 1950. 275.29 So8E

SOUTH CAROLINA. CLEMSON AGRICULTURAL COLLEGE, EXTENSION SERV. The agricultural outlook, South Carolina, 1951. Clemson Agr. Col. S. C. Ext. C. 357, 15 p. Dec. 1950. 275.29 So8E

SOUTH CAROLINA. EXTENSION COTTON COMMITTEE. Cotton production; insect and disease control, South Carolina, 1951. Clemson Agr. Col. S. C. Ext. C. 358, 16 p. Jan. 1951. 275.29 So8E

BOYLSTON, H. G. The 1950 cotton contest for higher yields and better quality. Clemson Agr. Col. S. C. Ext. C. 359, 31 p. Jan. 1951. 275.29 So8E

The Cotton Manufacturers' Association of South Carolina and the South Carolina Cottonseed Crushers' Association cooperating.

South Dakota State College of Agriculture, Extension Service, Brookings

SOUTH DAKOTA farm and home research 2: 25-44. Winter 1951. 100 So82S

Texas Agricultural and Mechanical College, Agricultural Extension Service, College Station

TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. Guide for controlling cotton insects in Texas, 1951. Tex. Agr. Col. Ext. C. 182, 8 p.-folder. Dec. 1950. 275.29 T312C

BANKS, W. C., and TURK, R. D. Control of stomach worms and liver flukes in cattle and sheep. Tex Agr. Col. Ext. C. 287, 8 p. Jan. 1950. 275.29 T312C

LEIGHTON, R. E., BURLESON, R. E., and RUPEL, I. W. A milking procedure for the dairy herd. Tex. Agr. Col. Ext. C. 290, 7 p. Dec. 1950. 275.29 T312C

TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. A look ahead for Texas rural families, 1951. Tex. Agr. Col. Ext. L. 111, 12 p.-folder. 1950? 275.29 T313

DEER, J. A., and GUNTER, A. C. Insect control for home gardens. Tex. Agr. Col. Ext. L. 126, 2 p. Dec. 1950. 275.29 T313

Utah State Agricultural College, Extension Service, Logan

BROWER, S. L., and ROSKELLEY, R. W. A study of attitudes of Utah farm people toward the Cooperative Extension Service. Utah. State Agr. Col. Ext. B. 209, 9 p. Aug. 1950. 275.29 Ut1

KNOWLTON, G. F. Cutworm control. Utah. State Agr. Col. Ext. B. 214, 2 p. Jan. 1951. 275.29 Ut1

KNOWLTON, G. F., and BINNS, W. Cattle lice control. Utah. State Agr. Col. Ext. B. 215, 2 p. Jan. 1951. 275.29 Ut1

DORST, H. E., and KNOWLTON, G. F. Tomato russet mite [Vasates destructor]. Utah. State Agr. Col. Ext. B. 216, 2 p. Jan. 1951. 275.29 Ut1

KNOWLTON, G. F. Earwig [Forficula auricularia] control. Utah. State Agr. Col. Ext. B. 217, 2 p. Jan. 1951. 275.29 Ut1

KNOWLTON, G. F. The boxelder bug [Leptocoris trivittatus]. Utah. State Agr. Col. Ext. B. 218, 2 p. Jan. 1951. 275.29 Ut1

SOERENSON, C. J., and KNOWLTON, G. F. Alfalfa and clover seed chalcid [Bruchophagus gibbus]. Utah. State Agr. Col. Ext. B. 219, 2 p. Jan. 1951. 275.29 Ut1

KNOWLTON, G. F., LIEBERMAN, F. V., and SNOW, S. J. Alfalfa weevil [Hypera postica] control. Utah. State Agr. Col. Ext. B. 220, 2 p. Jan. 1951. 275.29 Ut1

KNOWLTON, G. F., LIEBERMAN, F. V., and SOERENSON, C. J. Lygus bug control for alfalfa seed production. Utah. State Agr. Col. Ext. B. 221, 2 p. Jan. 1951. 275.29 Ut1

KNOWLTON, G. F. Grasshopper control in Utah, 1950. Utah. State Agr. Col. Ext. M. S. 59, 3 p. Dec. 1950. 275.29 Ut1Ms

Washington State College, Extension Service, Pullman

WASHINGTON. STATE COLLEGE. POULTRY COUNCIL. Turkey brooding and rearing equipment. Wash. State Col. Ext. B. 325, 8 p. Dec. 1950. (Poultry Pointers 16, rev.) 275.29 W27Pou

WASHINGTON. STATE COLLEGE. POULTRY COUNCIL. Feeding and management of chicks and pullets. Wash. State Col. Ext. B. 356, 8 p. Jan. 1951. (Poultry Pointers 14, rev.) 275.29 W27Pou

WASHINGTON. STATE COLLEGE. POULTRY COUNCIL. Coryza (colds) of chickens and infectious sinusitis (swell head) of turkeys. Wash. State Col. Ext. B. 358, 8 p. Jan. 1951. (Poultry Pointers 9, rev.) 275.29 W27Pou

WASHINGTON. STATE COLLEGE. POULTRY COUNCIL. Brooding and brooding equipment for chicks. Wash. State Col. Ext. B. 360, 14 p. Feb. 1951. (Poultry Pointers 22, rev.) 275.29 W27Pou

WASHINGTON. STATE COLLEGE. INSTITUTE OF AGRICULTURAL SCIENCES. Spray programs for tree fruits in eastern Washington. Wash. State Col. Ext. B. 419, rev., 35 p. Feb. 1951. 275.29 W27P

Washington State Department of Agriculture, U. S. Department of Agriculture, and the University of Washington School of Medicine cooperating.

NOYES, H. Storage for your home. Wash. State Col. Ext. B. 436, 15 p. Feb. 1951. 275.29 W27P

ECKBLAD, I. Let's cook; 4-H food preparation unit 1. Wash. State Col. Ext. B. 438, 23 p. Feb. 1951. 275.29 W27P

CARTER, M. Braided rugs. Wash. State Col. Ext. B. 439, 11 p. Jan. 1951. 275.29 W27P

ECKBLAD, I. Let's make bread and rolls; 4-H baking unit II. Wash. State Col. Ext. B. 441, 7 p. Jan. 1951. 275.29 W27P

RADIR, R. Guiding boys and girls in 4-H Clubs. Wash. State Col. Ext. B. 443, 19 p. Feb. 1951. 275.29 W27P

WASHINGTON. STATE COLLEGE. POULTRY COUNCIL. Culling chickens. Wash. State Col. Ext. B. 446, 4 p. Jan. 1951. (Poultry Pointers 42) 275.29 W27Pou

MCCOY, J. E., and ENSMINGER, M. E. Bloat [in cattle]. Wash. State Col. Ext. C. 121, 3 p. Dec. 1950. 275.29 W27K

IDAHO. AGRICULTURAL EXPERIMENT STATION. Halogeton—intermountain range menace. Wash. State Col. Ext. C. 185, 4 p. Feb. 1951. 275.29 W27C

West Virginia University, College of Agriculture, Agricultural Extension Service, Morgantown

WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Better rural living. W. Va. Agr. Col. Ext. C. 359, 28 p. Dec. 1950. 275.29 W522C

Report of activities and results of the Extension Service, 1950.

HENRICKSON, R. L., and COFER, E. S. Home freezing meat and poultry. W. Va. Agr. Col. Ext. C. 360, 19 p. Jan. 1951. 275.29 W522C

BISHOP, C. F. Corn borer [Pyrausta nubilalis] control in West Virginia. W. Va. Agr. Col. Ext. C. 361, 8 p. Feb. 1951. 275.29 W522C

HUMPHREYS, G. The club member, an alert citizen. W. Va. Agr. Col. Ext. Good Living Ser. 18. Strengthening the Home Front. Lesson 1, 6 p. n.d. 275.29 W522G



COFER, E. Vitamin B in family meals. W. Va. Agr. Col. Ext. Good Living Ser. 18. Strengthening the Home Front. Lesson 4, 6 p. n.d. 275.29 W522G

BISHOP, C. F. Controlling household pests. W. Va. Agr. Col. Ext. Good Living Ser. 18. Strengthening the Home Front. Lesson 6, 8 p. n.d. 275.29 W522G

PORTERFIELD, I. D., and ACKERMAN, R. A. Managed milking. W. Va. Agr. Col. Ext. Misc. P. 2, 6 p.-folder. Jan. 1951. 275.29 W522M

WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Growing cauliflower. W. Va. Agr. Col. Ext. Misc. P. 3, 4 p. Jan. 1951. 275.29 W522M

WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Growing broccoli. W. Va. Agr. Col. Ext. Misc. P. 4, 4 p. Jan. 1951. 275.29 W522M

WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Growing tomatoes. W. Va. Agr. Col. Ext. Misc. P. 5, 4 p. Jan. 1951. 275.29 W522M

WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Growing potatoes. W. Va. Agr. Col. Ext. Misc. P. 6, 4 p. Jan. 1951. 275.29 W522M

WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Sweet corn production. W. Va. Agr. Col. Ext. Misc. P. 7, 4 p. Jan. 1951. 275.29 W522M

Wisconsin University, College of Agriculture, Agricultural Extension Service, Madison

AHLGREN, H. L. Meet summer pasture shortages with Sudan grass. Wis. Agr. Col. Ext. C. 224, rev., 8 p. July 1950. 275.29 W75B

KUTISH, J., and MILLER, A. Truck transportation in the marketing of Wisconsin milk and fluid dairy products. Wis. Agr. Col. Ext. Econ. Inform. Wis. Farmers 21(4/6), 6 p. Apr./June 1950. 275.29 W75Ec

WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Control cattle lice, cattle grubs [Hypoderma], sheep ticks, garden insects with 1 1/2% rotenone dust. Wis. Agr. Col. Ext. Spec. C., 4 p. Jan. 1951. 275.29 W75S

WILEDEN, A. F. Trends in rural organizations in Wisconsin. Wis. Agr. Col. Ext. Spec. C., 24 p. Jan. 1951. 275.29 W75S

GARD, R. E., and KAMARCK, E. L., eds. Rural Wisconsin in prose & verse. Wis. Agr. Col. Ext. Stencil C. 326, 58 p. Oct. 1950. 275.29 W75B

Wyoming University, College of Agriculture, Agricultural Extension Service, Laramie

TOMLINSON, B. R., and WOODWARD, G. O. Water-life for the land! Wyo. Agr. Expt. Sta. C. 39, 16 p. Nov. 1950. 100 W99

#### FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Includes publications received in the library during the preceding month.

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Citrus and dried fruit. Food & Agr. Organ. United Nations. FAO Commod. Ser. B. 19, 107 p. Dec. 1950. 389.9 F735Cs

World industry.

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Report of the special session of the conference, Washington, D. C., U. S. A., 3-11 November, 1950. Washington, 1951. 60 p. 389.9 F75Rs

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. AUSTRALIAN NATIONAL COMMITTEE. Australia; annual report to the Food and Agriculture Organisation of the United Nations. n.p., 1950. 67 p. 389.9 F7353Au

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. NATIONAL FAO COMMITTEE OF FINLAND. Report to the Food and Agriculture Organization of the United Nations. Helsingfors, 1950. 63 p. 389.9 F738







Item	Item	Item	Item	Item
Aaberg H C 40537	Alkins C 41035	Allue Morer A 34360	Andersen L C 39866	Archibald E S 41142
Aaberg H C 40538	Aines P D 37132	Allwood M 35245	Andersen M 36384	Arellano M R de 34361
Aaltonen V T 34397	Ainsworth 36004	Allwright W 40240	Anderson A W 35246	Ares F N 34799
Aaltonen V T 35854	J C Jr	Al'meev Kh Sh 37963	Anderson C 33693	Ares F N 34800
Aamo E S 41597	Aitchison G D 35725	Almquist H J 37658	Anderson C 41289	Arespacochaga J de 40711
Abbeyes H des 35162	Aitkenhead P 38945	Aloni A 39291	Anderson C F 39067	Arey J A 37280
Abbondanza S 37482	Aitkenhead P 38946	Alonso Muñoz A 37894	Anderson C J 34005	Argentina Dirección de Economía 40450
Abbott C E 38143	Ajmerito G 37360	Alp H H 40786	Anderson E 34387	Argentina Dirección de Laboratorios 40451
Abbott C W 39826	Akademiya Sel'skokhozyaystvennykh Nauk 40539	Al'perovich Kh B 37580	Anderson E 39203	Argentina Dirección de Laboratorios 40452
Abbott H T 33689	Imeni V I 36431	Alphen J van 40855	Anderson E C 38829	Argentina Dirección de Laboratorios 40453
Abbott J B 34790	Lening 34643	Alston R E 33710	Anderson E D 38165	Argentina Dirección de Laboratorios 40453
Abbott M L 33690	Akamine E K 40881	Altevogt R 37746	Anderson E E 37148	Argentina Dirección de Laboratorios 40453
Abdel-Hafez O M 34766	Akerman A 41504	Althouse P M 41830	Anderson E J 34055	Argentina Dirección de Laboratorios 40453
Abeele A M van den 40113	Akerman A 39202	Altman F F 35163	Anderson G W 37674	Argentina Dirección de Laboratorios 40453
Abel P M 38333	Akindinov A S 40909	Altschul A M 40734	Anderson H 36643	Argentina Dirección de Laboratorios 40453
Abercrombie M 37656	Akesson N B 41345	Alvarez E 37483	Anderson J O 37600	Argentina Dirección de Laboratorios 40453
Abetz K 36355	Akishev S 38941	Alvarez M 40540	Anderson P J 36134	Argentina Dirección de Laboratorios 40453
Abetz K 36356	Akita T 39967	Alvarez Esteban J 36005	Anderson W H 41875	Argentina Dirección de Laboratorios 40453
Abiet P 39387	Akman 39663	Alvord E D 41140	Andersson B 37149	Argentina Dirección de Laboratorios 40453
Abl 36931	Alais C 39967	Alvsborgs Läns Södra Hushållningsällskap 41817	Andersson D 39356	Argentina Dirección de Laboratorios 40453
Abol' T P 36932	Al'bafe S 40642	Alvord E D 41140	Andersson G 34938	Argentina Dirección de Laboratorios 40453
Abol' T P 37067	Alberta Dept of Agriculture 34634	Amao M O 34758	Andersson G 40882	Argentina Dirección de Laboratorios 40453
Abplanalp H 37810	Albertario P 41138	Amaral C de F 38577	Andrade H 37279	Argentina Dirección de Laboratorios 40453
Abraham M 41783	Alberts J O 37657	Amaro Barcelos H 35859	André E 37069	Argentina Dirección de Laboratorios 40453
Abrahamson P E R 35855	Albrecht A R 34644	American Chemical Society 39432	Andrés J M 34646	Argentina Dirección de Laboratorios 40453
Abramenko G I 37068	Albrecht A R 34645	American Chemical Society 40910	Andretta M A V d' 38578	Argentina Dirección de Laboratorios 40453
Abramenko P I 37278	Albrecht G J 35244	American Chemical Society 40910	Andrew J Jr 35463	Argentina Dirección de Laboratorios 40453
Abramov V 38981	Albrecht R 35856	American Chemical Society 40910	Andrew W 40117	Argentina Dirección de Laboratorios 40453
Absil J 37526	Albrecht R 39332	American Chemical Society 40910	Andrews F N 38096	Argentina Dirección de Laboratorios 40453
Abul-Nasr S E 38575	Albrecht R 39333	American Chemical Society 40910	Andrews F S 34230	Argentina Dirección de Laboratorios 40453
Acasio E E 37239	Albrecht W A 35790	American Chemical Society 40910	Andrianov P 39218	Argentina Dirección de Laboratorios 40453
Acerete A 40368	Albrecht W A 35791	American Chemical Society 40910	Andries A 40064	Argentina Dirección de Laboratorios 40453
Aceto N C 40061	Albrecht W A 35813	American Chemical Society 40910	Androsik A S 40369	Argentina Dirección de Laboratorios 40453
Achterberg H H 36430	Albrook R L 34951	American Chemical Society 40910	Angeli B 40282	Argentina Dirección de Laboratorios 40453
Acker J 40062	Alcaraz J R 36221	American Chemical Society 40910	Angell G N 34796	Argentina Dirección de Laboratorios 40453
Ackerman F E 40114	Aldrich D G 35857	American Chemical Society 40910	Angell G N 38166	Argentina Dirección de Laboratorios 40453
Ackerman R A 37324	Aldrich D G 35858	American Chemical Society 40910	Angell G N 41913	Argentina Dirección de Laboratorios 40453
Ackerman W 35242	Aleksandrov G 41109	American Chemical Society 40910	Angell G N 41914	Argentina Dirección de Laboratorios 40453
Ackerson C W 40063	Aleksandrov S V 39345	American Chemical Society 40910	Angely J 33694	Argentina Dirección de Laboratorios 40453
Adair S T 41072	Alekseev A M 34398	American Chemical Society 40910	Angevine N C 39771	Argentina Dirección de Laboratorios 40453
Adams A T 40668	Alex A H 38317	American Chemical Society 40910	Angler H 40241	Argentina Dirección de Laboratorios 40453
Adams H S 39924	Alexander D E 34652	American Chemical Society 40910	Angola Repartição Técnica de Estatística Geral 41684	Argentina Dirección de Laboratorios 40453
Adams L L 36605	Alexander G 38912	American Chemical Society 40910	Angus M 39366	Argentina Dirección de Laboratorios 40453
Adams M 39344	Alexander L M 40785	American Chemical Society 40910	Anjos J dos 40118	Argentina Dirección de Laboratorios 40453
Addicott F T 34278	Alexander O R 39584	American Chemical Society 40910	Ankeny H D 41600	Argentina Dirección de Laboratorios 40453
Addington R 38314	Alexander P 40115	American Chemical Society 40910	Ansari M A A 40119	Argentina Dirección de Laboratorios 40453
Addington R 38315	Alexander P 40116	American Chemical Society 40910	Antheaume 39004	Argentina Dirección de Laboratorios 40453
Addison K B 34791	Alfaro P S 34794	American Chemical Society 40910	Anthoine R 40856	Argentina Dirección de Laboratorios 40453
Adolf E 38316	Alfi E 39828	American Chemical Society 40910	Anthone E W 38724	Argentina Dirección de Laboratorios 40453
Afanas'ev S V 37444	Alfimova A V 38474	American Chemical Society 40910	Antioquia Dirección de Estadística 39638	Argentina Dirección de Laboratorios 40453
Afanas'ev M S 34792	Algeria Direction des Douanes 41683	American Chemical Society 40910	Antoine A 39088	Argentina Dirección de Laboratorios 40453
Agar H D 36677	Alibert H 38750	American Chemical Society 40910	Antoine A 39437	Argentina Dirección de Laboratorios 40453
Agcanas P B 38010	Alibert H 38807	American Chemical Society 40910	Antonietti A 41475	Argentina Dirección de Laboratorios 40453
Agrell I 38828	Alkhaeva A P 38069	American Chemical Society 40910	Antonietti G B 36369	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 40297	Alisov M S 35461	American Chemical Society 40910	Antonov V V 40541	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41598	All-Pakistan Economic Association 41418	American Chemical Society 40910	Apice M d' 38070	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allen A V 37992	American Chemical Society 40910	App F 39515	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allen G O 33888	American Chemical Society 40910	Apple J W 38312	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allen H W 41886	American Chemical Society 40910	Appleton A F 39171	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allen J W 36552	American Chemical Society 40910	Aral T 37868	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allen M W 34238	American Chemical Society 40910	Arango R 41861	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allen N D 37553	American Chemical Society 40910	Arant F S 38305	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allen R H Jr 38576	American Chemical Society 40910	Araujo A A de 34797	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allen R M 36432	American Chemical Society 40910	Aradjo M C de 34647	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allison A G 40447	American Chemical Society 40910	Arbeitgemeinschaft zur Förderung des Futterbaues 34798	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allison E D 36933	American Chemical Society 40910	Arbogast F M 37990	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allouard P 36486	American Chemical Society 40910	Arbuckle W S 39969	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allouard P 36543	American Chemical Society 40910	Archer W A 41881	Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allton M E 38982	American Chemical Society 40910		Argentina Dirección de Laboratorios 40453
Agricultural Co-operative Association 41599	Allton M E 41139	American Chemical Society 40910		Argentina Dirección de Laboratorios 40453







Item	Item	Item	Item	Item	Item
Behm H W 34408	Béréní J 38437	Biale J B 33771	Blanco G 41295	Boger J 41514	
Behm H W 38947	Béréní J 38662	Blanchi C 38073	Blanco Macias G 35667	Boger L L 41070	
Behmer M L A 39869	Berezova E F 34409	Biblina B I 35169	Blanco Santa-maria G 40714	Boggs L C 39070	
Behn E E 39294	Berg C v d 36020	Biblina L I 35866	Bland D E 36678	Bogolubskii S N 36912	
Behrens H 37481	Berg L R 37664	Bickley W E 38671	Blaschke F 37165	Bogorad L 34412	
Beijerinck W 33796	Berg L S 35718	Bickoff E M 40105	Blaszyk P 38492	Bogusch E R 35598	
Bein Mrs H 38661	Berg P O 40067	Biebl R 34243	Blauser I P 39172	Bohl C 35033	
Beinke 40545	Berg v d 37753	Biebl R 34275	Blazhkevich F 37539	Bohl C 35094	
Belaire P A 37556	Bergal G 34419	Biedermann W 39667	Bleichert H von 39362	Bohm E 39588	
Belavtsev M I 38071	Bergal G 34420	Biehler H 41513	Blendinger W 36911	Bohrer C W 39589	
Belfiore P 38983	Bergara R 34410	Biele J 37627	Blizhkerova R 40884	Boice H G 34810	
Belgium 41147	Bergdoll M S 40914	Bien C 39370	Blin H 35031	Boischot P 34433	
Chambre des Représentants 40867	Berger K C 35861	Bier O 36804	Blin P 37170	Boischot P 35787	
Belifskafá R M 40066	Berggren F 34363	Bieri F 34176	Blink G C 36546	Boissart P 34962	
Bell C S 37896	Bergillos del Rio A 40713	Bierman H E 41787	Blinks L R 34566	Boivin B 33879	
Bell D S 40912	Bergillos del Rio A 40713	Biggar H H 40128	Bliss M 37137	Boke NH 34276	
Bell E V 36715	Berglund N 36011	Biggar J T M 34727	Bliss M E 38138	Bolduan O E A 40601	
Bell J M 37548	Berglund N 39142	Bigger J H 39871	Bliss M E 39382	Boley L E 37172	
Bell J M 38072	Bergquist D H 40802	Bijl D de 35470	Bliss M E 40705	Bolin D W 37104	
Bell R W 35862	Berkeley G H 33953	Billig H 41747	Bloch D 38493	Bolin D W 37957	
Bell W B 37161	Berkeley G H 34190	Billings T W 39008	Bloch K 34590	Bolin F M 37665	
Bell W B 37162	Berkhout H W 40068	Billings W D 34254	Block R J 39435	Bolin F M 37957	
Belleza W 39479	Berkhout J W 40068	Bilz A 41421	Blom A 35032	Boller A E 41788	
Bellappa P I 40124	Bermejo F 39480	Bing FC 41748	Blom A 35474	Bolling D 39435	
Bellora P 36321	Bernaccia E 34988	Bingfors S 34231	Blommer A J 39668	Bollmann 39144	
Bellucci V 41026	Bernard A 40915	Binkley C H 40793	Blondel L 35868	Bolong D S 37666	
Bellucci V 35596	Bernard C 37163	Binns W 37164	Blondel L 40242	Bolsunov I 34980	
Bellousov V 40884	Bernardi G 38836	Binns W 38967	Blondelle R 41149	Bolton Lord 36224	
Beltrán J F 37343	Bernardi J B 35091	Binyon C A 41601	Bloomberg R 40998	Bombay Forest Admin 36225	
Beltrán J F 37344	Berndt 35121	Birchfield J 37754	Blosser T H 37077	Bompard A 34654	
Benda G T A 34189	Bernon G 34059	Bird E R 39832	Blount W P 38117	Bonadonna T 41374	
Bender R 41512	Bernstein E M 39666	Bird H R 37602	Blount W P 40794	Bonazzi A 41150	
Bendigo C W 40125	Bernuth W von 37076	Bird J 35867	Blow C M 40857	Bond G 34413	
Bendix G H 39587	Berry P A 38585	Birfuzova V I 35771	Blow T H 36081	Bond J 37897	
Bendixen H C 36936	Berry R C 38837	Birkett C B 40916	Blow W L 37557	Bondy F F 38566	
Benedict P F 37869	Berthault 41148	Biserte G 40456	Blue W G 35790	Bone S 35264	
Benedix E H 35467	Berthelon M 37485	Bishop C F 38174	Blum J P 35869	Bonfield J P 39295	
Benezra 36937	Berthet 35468	Bishop C F 38838	Blum J L 33774	Boniface L 36941	
Revenge M V 36938	Bertossi F 34411	Bishop F G 36940	Blumer S 34060	Bonner D M 34467	
Bengoa J M 39468	Bertrand G 35915	Bishopp F C 38175	Blumer S 34061	Bonner J 34581	
Bengoa J M 41745	Bertrand J P 36553	Bishopp F C 38663	Blumer T E 40332	Bonnet E 40917	
Bengoa J M 41746	Bertrand M 37549	Bishopp F C 39517	Blümke 37953	Bonnet J 34567	
Bengoa J M 41761	Bertrand S P 37364	Bisnovaty S 39143	Blümke F 34805	Bonnet J 39971	
Bengoa J M 41784	Bertsch M 35863	Bissell T L 38219	Blümke S 34806	Bonnevier K 38495	
Benin G S 40913	Bertsch M 36717	Bistram von 36194	Blunck H 33955	Bonnier C 35765	
Benjamin E W 40791	Bertsch M 41372	Bitancont A A 41881	Bluvshstein I N 35170	Bonnier C 35773	
Benjamin E W 40792	Bertzaghi M N 35864	Bittermann E 41204	Boatman J L 36082	Bonomi P 41152	
Benloch M 38581	Bertzaghi M N 35865	Bitters W P 35092	Boback 34807	Bonsma F N 36942	
Benmore C H 41689	Berzaghi M N 38173	Bobb A C 40298	Bobb A C 40298	Bonus M 41916	
Bennett A N 40924	Besemer A F H 33954	Bobb M L 38725	Bobby F C 41373	Booher L J 36056	
Bennett C A 40126	Beskine J M 39007	Bobinska S G 38494	Bobrov E G 33701	Boonstra 40858	
Bennett E 39870	Bess H A 38632	Bobby F C 39194	Bobylyev I F 37486	B B S T 34989	
Bennett G A 36162	Besson J 38586	Bjarnason H 36223	Boceta Duran V 41820	Booth C E 35471	
Bennett H H 36078	Bessonnet E C 38323	Björklund C M 34941	Bocharova O M 38741	Booy A 35265	
Bennett H H 36079	Beste L F 40165	Blachez P R 41422	Bochkarev K 37446	Borbolla y Alcalá J M R de la 40981	
Bennett H H 36080	Bethke S 40361	Black A B 38324	Bochkarev K 37527	Borden A D 38438	
Bennett I E 40546	Betten C 38948	Black G 39409	Bockmann H 34062	Borders H I 34063	
Bennett R R 34984	Bettencourt A 41293	Black W G 37273	Boddy H 34808	Borell A E 35668	
Benoist C 34616	Bettensworth B 36939	Blackaller V A 38176	Boddy H 34809	Börgemann 39009	
Bentinck-Smith J 38011	Bettini T M 40127	Blackburn B 35261	Boddy H 36353	Borghetty H C 38840	
Bentivoglio A 36716	Betzema J 35469	Blackley S R 40129	Boddy H 37282	Borgmeier T 38587	
Bentley C F 35879	Bevan W J 38600	Blackman G E 34244	Bode W 40299	Borgo Billia G 36226	
Benton A H 38172	Bevard G E 34804	Blackwell H L 39069	Bodenstein D 38144	Borisov S N 41821	
Bentz T 34058	Bevard G E 36910	Blair A E 35860	Bödewadt G H 38839	Bornemann G 38012	
Beran F 38491	Bevilacqua I 35122	Blair G W S 37188	Bodwell J H 40795	Borreli G 37166	
Beregovo L 41109	Bewley W F 34191	Blair H E 37365	Boekholt K 34761	Borrero H J I 41822	
Berendes P 35725	Beyer A F 33700	Blake K 37407	Boer H W de 35263	Borsetto P 37167	
Berendes P 35817	Beyer F 36522	Blakeslee A F 34337	Boer W den 35594	Boruff C S 39590	
Berends J L 35259	Bezinger E N 34599	Blakeslee A F 34525	Boeuf F 35093	Bosch S 36718	
Berends J L 35260	Bhalerao V R 40710	Blanchard M 39335	Boganin V S 39403	Bose S 40796	
	Bhasin G D 38159	Blanche H M 35262	Bogart R 36859	Bose S K 41028	
	Bhaskar T D 35740	Blancher R 41087	Bogaty H 40130	Bosh'lan G M 36887	
	Bhattacharyya K N 41027	Blanco A 37441			
		Blanco C 36385			



Item	Item	Item	Item	Item
Bostel F 35123	Brannan C F 41823	British Bee-Keepers Association 38327	Brown R 33720	Bumpus E D 34812
Bostel F 35233	Brannan C F 41908	Research Committee 38496	Brown R J 40919	Bunting A H 39169
Bostian C H 37557	Brannon D 38496	British Columbia Dept of Agriculture 39640	Brown R W 34118	Bunting E S 34942
Bostock F 38118	Brant A W 40798	Statistics Br 38029	Brown R Z 38823	Burback H J 35600
Bostrom C E 40457	Brase K D 34990	British Guiana Dept of Agriculture 41304	Brown T T 37763	Burch G R 37365
Boszjan G M 36805	Bratten J 37753	Dept of Agriculture 41824	Brown W O 37604	Burch H B 41749
Botkina A 40610	Bratzler J W 38074	British Standards Institution 40134	Brown W V 34279	Burdick E M 33957
Botsford H E 37756	Braude R 38029	British Standards Institution 40525	Browne E B 34656	Burdin J 39829
Bottger G T 38177	Braun D 37759	Brüggemann H 38034	Brownell A 35269	Bur J 40461
Boubals D 34059	Braun W 36835	Brüggemann H 38035	Brownell J D 35441	Burgeff H 38843
Boudewijn C 35034	Brauns A 38903	Brugère J M 36085	Brucher F J 35497	Burgess T H 36472
Bougy E 34568	Braverman J B S 40372	Brumbd D 40982	Brückner K 35669	Burgmans H 35174
Bouheller R 35472	Bray R H 35870	Brummer O 34617	Brueckner A L 37720	Burgos C X 37890
Bouillot J 36913	Brazil Instituto de Açúcar e do Alcool 40918	Brummer V 35478	Brueckner A L 37721	Burgoyn J H 36587
Boumphrey G 40669	Brazil Servico de Estatística Econômica e Financeira 41690	Brumme D 35477	Brugarola M 36227	Burgoyne J H 40374
Bouquery R 40458	Breakey E P 38179	Brittin W 38013	Brugge G J ter 41423	Burgstaller L 37558
Bourdillon J 34569	Breakey E P 38439	Brittingham W H 35476	Brugge H F J van der 34540	Burgy M P 36550
Bourgenot 41865	Breakey E P 38496	Brittingham W H 35477	Bruggemann H 38034	Buri H E 37764
Bouriquet 34064	Breakey E P 38727	Britton D M 34277	Bruggemann H 38035	Burkart A 35272
Bouret G 40715	Breakey W J 34519	Britton E E 41866	Brugière J M 36085	Burkholder C L 35128
Bourne H 40547	Bréart G 39872	Brizl A 41088	Brumme D 40982	Burkitt W H 37962
Bourne R F 36806	Bréart G 41153	Brizl A 41375	Brummer V 34618	Burla H 38588
Bourqui P 38517	Breblon G 34571	Brizl A 41691	Brummer V 34657	Burlak Z K 38062
Bourrelly P 33889	Bregante L J 36719	Broadfoot W M 36084	Brunelli A A 34981	Burleson R E 37309
Bousset G 40131	Bregger J T 35124	Brock R B 35172	Brunner E 35173	Burlison W L 34946
Boutroux A 37757	Breirem K 38030	Brockett J E 41376	Bruno A 36154	Burlingame B B 41377
Bovard P 39669	Bremen-Horn Botanischer Garten 33702	Broeg C B 34960	Bruno M 36155	Burlingame B B 41378
Bovyn R 39544	Bremer Baumwollbörse 40133	Brogan D 35941	Brush W D 36301	Burlingame B B 41379
Bowden R 39545	Bremont E 39670	Bröker W 38328	Brussels Jardin Botanique 33703	Burmeister G 41692
Bowers J L 35473	Brenckman F 40716	Broley M 37761	Bryan A H 41825	Burn J 36086
Bowes C G 40797	Breneman W R 37668	Bromberg I S 37438	Bryan C G 41825	Burnafski D 35975
Bowles G K 41083	Brennan A D J 37169	Bronstein E I 37762	Bryan H S 37172	Burnett J H 33797
Bowman K W 39972	Brennan J M 38486	Bronson W F 39591	Bryant B S 36691	Burnett S E 37434
Bowness E R 37421	Brenner W 39145	Brooke J 35125	Bryant G E 38498	Burns D H 41910
Bowser W E 34634	Brenner W G 39010	Brooke J 35126	Bryant J R 39368	Burns L V 40069
Box H E 38841	Breny R 38497	Brouckère L de 41602	Bryant R L 37643	Burns R H 40184
Boyce A M 38178	Bresnahan C A 41464	Broughton A 36720	Bryce D L 40526	Burns R H 40185
Boyd B 37345	Bressler G O 37682	Broughton A 36943	Brydon P H 35270	Burnside J E 41807
Boyd E M 38949	Bressler G O 39200	Broughton A 39011	Bubnov D 39774	Burnthall E V 40136
Boyd H 40371	Bressou C 37170	Brouwers J B 35268	Buchanan J R 35931	Burr G O 34458
Boyd J D 36690	Brian P W 34414	Brow S A 41515	Buchanan M L 37957	Burr G O 40766
Boyer L 35171	Briand G 39671	Brower S L 41681	Buchbinder L 39828	Burrell A B 33958
Boyer P D 37103	Brickwood H 39195	Brown A C 33956	Buchholz 36195	Burrell A B 33959
Boylston H G 34762	Brier J H 38325	Brown A H 34485	Buchholz J T 33820	Burrell R C 37223
Bozhevov nov P I 37168	Brierley P 34192	Brown A H 39592	Buchli H 38964	Burris R H 34506
Bradbury C J 37283	Brierley P 34223	Brown A W A 34415	Buchner A 34653	Burroughs J D 39593
Bradbury F R 38489	Brigando J 39967	Brown A W A 38665	Buck W R 40920	Burrows S 36182
Brade A C 33880	Briggiler H A 34655	Brown A W A 38716	Buckmaster T 36946	Burson P M 35819
Bradfield R 35818	Briggs G M 35599	Brown B A 36944	Buckner G D 37669	Burte H M 40137
Bradfield V F 41567	Briggs G M 37600	Brown C 34811	Buckner P J 37062	Burton B 39477
Bradley G H 38664	Briggs G M 37603	Brown C H 39783	Buckner P J 37273	Burton J A 39363
Bradley J D 38942	Briggs H M 37972	Brown C J 40602	Buczowski Z 36818	Burton R C 39594
Braeutigam H D 37667	Brighten C W 36408	Brown C W 36808	Budd N H 39547	Burt E 38589
Bragdó M 34364	Brill J E 40300	Brown D A 34519	Budde 41299	Busch E 40302
Braine H E 40459	Brinegar M J 38031	Brown D S 35127	Budnifskafa E V 34572	Busch L V 33960
Brakke M K 34214	Brinegar M J 38032	Brown E H B 36629	Budowski P 40717	Bush R 38844
Brakman P J 38726	Brink B 38033	Brown F 40460	Budowski P 41795	Bush R 40375
Bramley W 41296	Brinkley P C 40301	Brown F W 39012	Buehrig B 39775	Bush R 41029
Brandenstein I von 40365	Brion A 36807	Brown H S 34278	Buell M F 34259	Bushk F 39874
Brandis R 40132	Brion A 37171	Brown J A 36544	Buen R de 39469	Bushnell H H 39776
Brandner J H 39473	Brion A 37760	Brown J M 40911	Buhle 39873	Bushnell H H 40070
Brandner S 39296	Brisebois D 34991	Brown J W 34561	Bulatti P G 40135	Busnel R G 38935
Brandt C R 35266	Brisebois D 41154	Brown L 38180	Builder P L 36904	Bustamante Cárdenas S 37765
Brandt L E 35267		Brown M S 34365	Bulatov N I 40548	Butler C G 38329
Brann D R 39336		Brown P H 39354	Bulgakova V 39973	Butler E 35273
Brannan C F 36083		Brown P T 36945		Butler E 35601
Brannan C F 39367				Butler J K 38127
Brannan C F 39410				Butler O D 36991
Brannan C F 39546				Butler O D 37063
Brannan C F 41297				Butler O D 37326
Brannan C F 41463				Butler P F 35725
				Butler R D 40462
				Buttner E E 36692
				Buttner E E 37605



	Item		Item		Item		Item		Item
Buttrose A K	37284	Campbell J A	35148	Carneiro Filho	39777	Cator H J	40615	Chapman C J	35872
Butts H A	40724	Campbell J A	35149	J J		Catron D V	38036	Chapman E F	37774
Butts J S	37621	Campbell J A	35945	Carnes N K	40550	Catron D V	38037	Chapman G L	36478
Butz E L	41156	Campbell J L	38845	Carney J P	37955	Catron D V	38063	Chapman H D	35873
Butzow F	37447	Campbell K O	41284	Carof V	41518	Catron D V	38083	Chapman P W	41167
Buwalda P	33798	Campbell L	38727	Carolin V M	38858	Caujolle F	34419	Chapman W L	36359
Buxbaum W	39672	Campbell R	41750	Carolis V de	41162	Caujolle F	34420	Charbonneau A	34662
Buysscher J de	39544	Campbell R	41788	Carpenter D J	37560	Cavadini L	34992	Charrier G	33799
Buzacott J H	34963	Campbell S	36947	Carpenter F R	34813	Cavallo E	38334	Charrier G	34257
Buzulukov P A	39224	Campbell W B	36631	Carpenter J	39974	Cavazza L	35673	Chase C E	40333
Byerly T C	37137	Campbell W W	41038	Carpenter R D	36561	Cave N L	35281	Chase S J	41425
Byles R S	35271	Campo J del	35820	Carpio B R del	34763	Cavers R J	37771	Chasovnikov A	36554
Byrlédanu A	41693	Campo S del	40463	Carr J M	41519	Cavia C E	40243	Chater S W	39549
Byrne A F	37218	Campo S del	40464	Carrasco E O	41749	Cavia E C	37561	Chatten C K	40868
Byrne J L	38087	Campredon J	36627	Carrasco E O	41811	Cavitt E L	39875	Chatterjee K C	34297
Byrnes D J	39071	Campredon J	36659	Carrell W S	35602	Cayless B G	37366	Chaudhari B B	35481
Bywaters J H	37559	Camus A	39829	Carrera M	38578	Cazenave M	37174	Chaugule B A	34814
		Camus G C	34416	Carreras A A	38145	Ceccarelli A	37671	Chautemps B	36815
		Camus G C	34417	Carrere L	36811	Cecil L	37772	Chauvier G	38185
Caballero J M	41694	Canada Bur of	39641	Carrere L	36812	Cecil L	37773	Chavan V M	34082
Cabezas J	38330	Statistics		Carretero R	41775	Cecil S R	40378	Chavan V M	35481
Cabral A	36196	Canada Bur of	40999	Carrick	36949	Cedillo V H	36386	Chazal P	37087
Cabral A	41409	Statistics		Carrière de	35672	Celestre M R	35282	Chen C W	38950
Cacclaguerra J	41516	Agriculture Div		Belgarric R		Celormini N	37877	Chen P S	40670
Caceres D F	41157	Crops Sect		Carrington H B	40799	Central Live-	40550	Chen S M	34284
Cáceres M R	34281	Canada Dept of	41115	Carroll A B	35279	stock Associa-		Chao S Y	33860
Caffera R	34659	Labour		Carroll J C	34573	Cépède M	41164	Chepil W S	35727
Callar P	39013	Canada Dept of	36285	Carruth L A	38184	Cépède M	41165	Cheremisinov	34619
Callas A	38331	Resources and		Carson B L	37529	Cepero P	40466	G A	
Cain R F	35479	Development		Carson J R	37670	Cercos A P	33964	Chernykh S D	39174
Cain R F	40376	Forestry Br		Cartaya J A	41789	Ceruti A	34421	Chesbro M D	37563
Cairaschi E A	33961	Canada National	41927	Carter D	40115	Chabannes J	34550	Cheshire C	40886
Calbert H E	39923	Research		Carter E L	40071	Chabaud A G	38441	Chevalier A	33800
Caldwell A B	41749	Council		Carter J	41300	Chabaud A G	38500	Chevalier A	33801
Caldwell J S	38729	Canada Wheat	40465	Carter M	41520	Chabrillón A L	34660	Chevalier C	35286
Cale G H	38332	Board		Carter R G	38671	Chabrillón A L	34661	Chevallard A	40139
Calhoun J L	39173	National Live	36914	Carvalho J C M	38731	Chadefaud M	33889	Chevedaev A A	36302
California	39411	Stock Record		Carvell J E M	41163	Chadwick L C	35283	Chiappari L	34815
Grocers		Board		Casa Pacheco	37768	Chadwick L E	38591	Chiarelli de	38847
Association		Canadian Phy-	33963	Marqués de		Chamber of	41166	Gahan A	
California Poul-	37767	topathological		Casa Pacheco	37769	Commerce of		Chiaromonte A	38913
try Improvement		Society		Marqués de		the United		Chilanti P	41089
Commission		Candinas L	38108	Casa Pacheco	41915	States of		Chilanti P	41090
California Uni-	35097	Candioli P	34245	Marqués de		America		Childers N F	33966
versity College		Candura G S	38846	Casa Pacheco		Committee on		Chilson W H	39975
of Agriculture		Canning J F	38333	Marqués de		Economic		Chilton S J P	35653
Callaghan A R	41153	Cannon G	41465	Case A A	37965	Policy		China W E	38733
Callahan E P	40227	Canright J E	33704	Case L I	40549	Chamberlain D	33965	Chini A	41426
Callender M E	33736	Canright J E	34283	Case W H	40341	Chamberlain	34067	Chirkov V I	34422
Calvert A Jr	39297	Canstein F von	39673	Cases M T	40983	G C		Chisholm R D	38186
Calvert O H	33962	Cantiani M	36370	Casida L E	37273	Chamberlain	34068	Chittenden D W	36951
Calvet C	35035	Cantrell F	37994	Casida L E	38025	G C		Chittenden D W	36952
Calzadilla	35274	Capell J E	39169	Cason J F	35279	Chamberlain S A	37562	Chitwood B G	34241
Cabralas P		Capobres C C	36810	Casparé H E	35871	Chamberlin N R	38335	Choate M	35287
Calzecchi-	35175	Capuano L	39459	Caspersion L O	39481	Chamberlin T R	38732	Chogovadze Sh K	39676
Onesti A		Cardenas M	35671	Cassagne P	40859	Chamberlin V D	37620	Chope H D	41751
Calzecchi-	41159	Cardwell I	35275	Cassamagnaghi	38590	Chamberlin V D	37806	Chopra N	34325
Onesti A		Careshe L	38182	A (Hijo)		Chambers E E	37200	Choquette C	33967
Calzecchi-	41517	Carey C J	38183	Cassidy J	40493	Chambron	35284	Choquette C	38187
Onesti A		Caribbean Com-	41161	Cassil C C	38979	Champeval A	35821	Choquette L P E	38476
Camargo R de	35670	mission		Cassin J	35036	Chamukha M D	37895	Chotari K I	35216
Cambridge Uni-	41160	Central Secre-		Castellini A	35968	Chan G S	41911	Chou C Y	34317
versity		tariat		Castello F	39674	Chancogne M	38902	Chou C Y	35674
School of Agri-				Castelo M	37487	Chandler J V	34920	Chouard P	34423
culture				Castle L	39225	Chandler L U	36813	Chow C Y	38188
Camefort H	34282	Carlini V	36286	Castle-Douglas	36950	Chandler N	35285	Chow C Y	38951
Cameron A E	38730	Carlone R	34413	Castori M	34340	Chandler S C	38278	Chowdhary B B	34082
Cameron E	38804	Carlson E W	40349	Castro R de	40138	Chandraskha-	36814	Chowdhury S A	39482
Cameron E J	39595	Carlson E W	40377	Castro R J	35480	ran K P		Christ E G	34421
Cameron M	38499	Carlson C W	36768	Castro R J	41603	Chang L T	40921	Christensen E	34542
Cameron T W M	36809	Carlson C W	37606	Castro Rivera S	36229	Chang M C	37878	Christensen E J	38984
Camp A F	35095	Carlsson C E	36721	Catalina L	35280	Chang P L	35691	Christian W E	39569
Campacci C A	34966	Carlsson C E	36943	Catarro M P	37173	Chapidze E E	39675	Christl H	38076
Campbell A	39347	Carlsson C E	37954	Cathie W	39169	Chapman A B	36699		
Campbell A J	41695	Carm C O	37346	Caton D	39548				
Campbell H	39596	Carmack W C	35276						
Campbell I J	38181	Carman G E	34402						



Item	Item	Item	Item	Item
Christoff D 38933	Cochran L C 35135	Conn G H 37449	Costa Filho M 40922	Crosby-Browne 34430
Christopher W 40072	Cochran T C 41427	Connecticut 40331	Costa Rica 41696	Cross A T 33723
Christova- 35987	Cochrane R H 39226	Dept of Farms and Markets	Dirección General de Estadística	Crouse E F 41173
Haidutova I	Coe D M 34003	Connor H E 35604	Costa Rica Min- 36083	Crowe G B 39017
Chubarfan T G 34366	Coetzee W H R 40380	Conochie J 36789	Isterio de Agri- cultura e In- dustrias	Crowe G B 39229
Chubb R L 40860	Cofer E 41790	Conolly A P 33706	Costantino G 38595	Crowell H H 38628
Chubukin N 40551	Cofer E S 40679	Conrad G A 36579	Costello D F 40888	Cruss W V 39742
Chumak A V 39072	Cohee R F 40381	Conrad J P 35875	Costello R B 41455	Crum H 34259
Chumak I V 35176	Cohen R M 40552	Consejo de Bienestar Rural 41171	Cotchin E 37367	Cruz J P G da 33708
Chung A C 37175	Coimbra Uni- versidade Jardim Botânico	Constance L 33863	Côté R R 41605	Cruz R d' 33810
Churchill B W 33945	Colas J 39830	Constance L 41869	Cothran C D 35291	Cruz R C 39682
Chuvikov V 41030	Colberg W J 38852	Constantinides E 39369	Cotta A 34246	Cruzado H J 34496
Chwalibóg J 38077	Colby R W 36723	Convención Nacional de Productores de Maderas de Pino	Cotte A 34818	Cruzado H J 35641
Clampolini U R 39014	Colby R W 37122	Conway H M 40660	Cotton R H 40923	Cruzado H J 35642
Ciblis E 40048	Coldwell T 39102	Cook E D 35876	Couch J F 34574	Csonka F A 37611
Ciccarone A 33904	Cole A C 38805	Cook E D 35877	Couch J R 37607	Cuba P 36089
Ciccarone A 33963	Cole C E 35603	Cook H H 35482	Couch J R 37608	Cuff P 38037
Ciccarone A 34425	Cole H H 37899	Cook L F 36487	Couch J R 37615	Cuff R L 38622
Ciferri R 33802	Cole R K 37672	Cooke G B 36660	Coulter F C 35485	Cuff R L 4064
Ciferri R 34069	Coleman F B 40467	Cooley H D 39551	Couper G P 37287	Cugini A 3681
Ciferri R 41826	Coleman G E Jr 37564	Coon J M 38193	Couperot 40469	Cular N O 3901
Cillie G G 40379	Coleman R 35792	Cooney W T 37621	Couranjou A 34194	Culbertson C C 3806
Cimon J C 37285	Coles R 37565	Coony J J 35857	Cours G 35675	Cullen A D 41600
Claassens J W 39826	Coles R 37776	Coony J J 35858	Cours G 40244	Cullen A D 41601
Claborn H V 38189	Collenette C L 38853	Coop I E 41521	Courtial J 37659	Culpin C 39118
Clark A H 38843	Collins B 41000	Cooper J B 37671	Coussens R 37230	Cummings M B 35486
Clark B E 40887	Collins D L 38442	Cooper J F 38734	Coussens R 37983	Cumins G B 33901
Clark C A 38190	Collins E R 35874	Cooper J R 40073	Coutant M 39016	Cunha F S da 40469
Clark F E 40863	Collins J L 35096	Cooper L J 39228	Couvreur F P 40661	Cunha T J 37080
Clark G R 39445	Collins L E 41169	Cooper W C 35878	Couvreur F P 41522	Cunha T J 38014
Clark K G 35860	Collins T W 36197	Coppadoro A 39436	Covas G 33809	Cunha T J 38039
Clark K G 36175	Colmer R 39678	Coppens R 34567	Cowan C S 36489	Cunha T J 38040
Clark M 39298	Colowick S P 34587	Coppens R 39437	Cowan J C 39477	Cunha T J 38042
Clark P G 38849	Colston R 39412	Coppens R 39971	Coward F F 38196	Cunha T J 41807
Clark R 37966	Columbus A 38038	Coquerel J 38336	Cowles R B 35676	Cunningham C 35822
Clark R C Jr 41595	Colvard C D 39976	Corbett G 34982	Cowles R R 35292	Cunningham D G 38412
Clark R E 39483	Colwell W E 35903	Corbière R 36012	Cox C B 40616	Cunningham G 38041
Clarke J H 35283	Colwell W E 35983	Cordesse A 39015	Cox H 33809	Cunningham G 38854
Clarke J H 35289	Comar C L 35746	Cordonnier R 39740	Cox R W 41067	Cunningham J F 36382
Clarke J L 38666	Comar C L 37245	Cordy C B 38194	Crabb G A Jr 41827	Cunningham L C 40071
Clarke M W 41867	Comar C L 39077	Corfield F V 41172	Craft W A 36698	Curbelo L 34943
Clauser F 36371	Combal H 39227	Corillion R 33803	Cram J S 41523	Curl L F 38955
Clavé H 41163	Comber J 35290	Corillion R 33804	Cramer M L 34429	Currie L 41210
Claver F K 34426	Combs G F 37600	Corillion R 33805	Crampton E 36724	Curtis A B 36489
Clay H H 39518	Combs G F 37629	Corillion R 33807	Crampton E W 37548	Curtis C H 35037
Clay T 38952	Commonwealth Agricultural Bur 41928	Corkins J P 38592	Crampton E W 41758	Curtis C H 35294
Claybaugh J H 37775	Commonwealth Forestry Bur 36198	Cormack D V 35879	Crane L E 35877	Curtiss H 36063
Clayton C B 41752	Commonwealth Mycological Institute 33970	Cornelius 35880	Cranz K L 37079	Curtz G 41608
Clearwater Timber Pro- tective Asso- ciation 36473	Comrie A 36173	Cornelius D R 35605	Cravens W W 37609	Curwood J E 35297
Clegg O 40140	Comrie A A D 39679	Cornides G 36381	Cravens W W 37610	Cury R 38337
Cleghorn W B 34816	Conant V 38667	Coronado Padilla R 38593	Crawford L A 41039	Cury R 38338
Clem M A 41948	Concepcion I 41311	Coronat F 39552	Crawford L C 33862	Cushman Mrs R 41174
Clemares Mira- lles E 33969	Condit I J 35097	Coronel A B 37183	Creech J L 35293	Cutright C R 3850
Clements H F 34964	Conforti E 41410	Correa O 37967	Cremer H D 41791	Cuzin J 34286
Clendenan E F 36617	Congdon J 40142	Correa R R 38594	Cremer H D 41791	Dadykin V P 3443
Clendenning K A 34427	Congleton M W 36955	Correa R R 38669	Cremer H D 41791	Dahl A H 3867
Cleu H 38950	Congrès des Ingenieurs Coloniaux 41170	Cortés Muñoz V 40981	Cremer H D 41791	Dahl A H 3869
Cleu H 38951	Copie A 36173	Cortin B 35483	Cremer H D 41791	Dahlberg A C 3992
Clifton C C 36087	Copie A A D 39679	Cortvriendt S F 34428	Cremer H D 41791	Dahlberg H W 4092
Clines C 40718	Conant V 38667	Corvin A 33971	Cremer H D 41791	Dahle C D 3997
Cloché F 39519	Concepcion I 41311	Cosentino S 39553	Cremer H D 41791	Dahle C D 3997
Cloete D 37998	Condit I J 35097	Cosper L C 35484	Cremer H D 41791	Dahm P A 3862
Clough R S 41604	Conforti E 41410	Cossette M 34070	Cremer H D 41791	Dahm P A 3862
Clovis J L 34817	Congdon J 40142	Costa A S 34193	Cremer H D 41791	Dahms R G 3878
Cobb L L 40141	Congleton M W 36955	Costa A S 34200	Cremer H D 41791	Dahne B 3560
Cobb W T 37078	Congrès des Ingenieurs Coloniaux 41170	Costa J M G da 37348	Cremer H D 41791	Dahnes R H 3410
Cobban L 37347	Copie A 36173		Cremer H D 41791	Dairymen's Co-operative Sales Asso- ciation 40
Cobis J 39677	Copie A A D 39679		Cremer H D 41791	Dakan E L 3756
Cocco E di 36953	Conant V 38667		Cremer H D 41791	Dale A C 392
Cochran C L 39550	Concepcion I 41311		Cremer H D 41791	
Cochran K 37448	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679		Cremer H D 41791	
	Conant V 38667		Cremer H D 41791	
	Concepcion I 41311		Cremer H D 41791	
	Condit I J 35097		Cremer H D 41791	
	Conforti E 41410		Cremer H D 41791	
	Congdon J 40142		Cremer H D 41791	
	Congleton M W 36955		Cremer H D 41791	
	Congrès des Ingenieurs Coloniaux 41170		Cremer H D 41791	
	Copie A 36173		Cremer H D 41791	
	Copie A A D 39679			



	Item		Item		Item		Item		Item
Dalene H	36409	Dean J D	40152	Der Khatcha-	34822	Dimock A W	34071	Drahn F	37970
Dallemagne M J	38215	Dearborn N	38985	dourlan M		Dimock A W	34072	Drake C J	38739
Dalling T	37675	Dearden J	35608	Dermott W	35912	Dinsmore J R	36824	Drake G L	36490
Dalmasso G	35177	Dearstye R S	37557	DeRose H R	35609	Dinussen W E	37255	Drake R J	34228
Dalmasso G	39683	Dearstye R S	37780	DeRose R L	39404	Dionne M A	37995	Drakin D I	40554
Dalmasso G	39684	DeBach P	38444	Desch H E	33712	Dipler R V	34073	Drar M	33868
Dalmasso G	39685	DeBach P	38736	Deschamps G	35297	Dipman C	39413	Drawbaugh C C	39073
Dalmasso G	39686	Debraux G	34295	Deschreider A R	40494	Dirks C O	38858	Dray S	41751
Dalmasso G	40245	Debraux G	34296	Desenclos R	37549	Dirsh V M	38915	Drazhevskii	36434
Dalmasso G	40384	DeBuisson E B	36141	Desfarges P	36323	Dirsh V M	38916	Drees H	35611
Dalmasso G	41429	Dechant T T	41609	Des Iles T A	36822	DiSalle M V	39554	Drees H	38503
Dalmasso G	41477	Decker G C	38197	Deslandes F	36573	Dittrich E	41498	Drees H	39204
Dalmat H T	38596	Decker G C	38198	Des Rotours V F	34663	Dittrich W	38599	Drees H	39205
Dalrymple A J	40304	Deckwer N	37968	deStaute E G	39954	Dixon O H Jr	36825	Dreher W H	37121
Dalton W	39597	Decotte F	38339	Detwiler R W	37802	Dobbs C G	34074	Dreisbach M B	41754
Dalton W J	34819	Dee W E	34944	Deutsch H F	37705	Dobrokhalov	36233	Drescher M Jr	37781
Daly C N	40152	Dee W E	36725	Deutscher Ralf-	41176	Dobson S H	37280	Dresner E	38147
Daly L L	36819	Deer J A	38199	felsenverband		Dobychin N P	36826	Drew E L	40555
Dames T W G	35796	Deering F J	36157	Devereaux W B	35298	Dochterman E F	39438	Driessche S	40494
Damodaran S	37368	Deev N	41497	De Villiers S W	37969	Dock G Jr	37410	van den	
Dana S T	36199	Deevey E S Jr	37211	Devine J	36581	Dodd D R	35982	Drieux H	37170
Dangon G	41870	Dehra Dun	36230	D'Ewart W	41698	Dodd L	37291	Driggers B F	38859
Danielson L L	35606	Forest Re-		De Worms	38857	Dodge C	36661	Driggers J C	37676
Danilevich G I	39120	search In-		C G M		Dodge L	35299	Drilhon A	38935
Danilevich S fu	39146	stitute		Dexter A K	36330	Doery A C	35603	Droeven G	35728
Danilevskii N D	37288	Deijs W B	36718	Dey B K	41699	Dogonadze R I	40246	Drogué A	41180
Danilevskii N V	37289	Delage	37082	Deysson G	34434	Dogra J R	36827	Druetto E A	39301
Danilov M D	36387	Delasnerie J	39230	Dhagat P L	39484	Doherty W H	40926	Druzicka N I	35178
Dannecker K	36200	Delattre R	38200	D'fachenko G A	39687	Doll E R	37488	Dubakin N I	37507
Dannik S	34820	Delaware	41829	D'fachenko P	39980	Doll E R	37489	Dubois R	41816
Danvig A M	35487	State Labora-		Diamond L	37218	Doll E R	37500	Dubost M M C	38343
Darlot P	34575	tory		Diana E	38340	Dolzhano P	39982	Dubret R	36524
Darroch J G	40427	DeLeon D	38597	Dias J A T S	38445	Domingo W E	34945	Dubret R	36525
Dart G	37718	DeLeon J F	41811	Diaz Barriga J	41753	Domingo W E	40721	Dubrova P F	35040
Das J	37719	Delgado M M	37177	Diaz Galindo F	41040	Dominguez R	40508	Dubulle M	41701
Datta R M	34287	Delmas H G	35038	Dibbern H	39981	Domlnican Re-	41700	Ducap R	36184
Dauguet P	35607	Delmas R	38914	Dick G W A	38677	public Direc-		Duchaigne A	34289
Dauster K H	36201	Delmonte J	39535	Dick J B	34141	ción General		Du Chanois F R	38894
Daviault L	38856	Deloffre G	35823	Dick J B	34764	de Estadística		DuCharme E P	34204
David R	34432	DeLong D M	38737	Dicker G H L	38502	Donald H P	37178	DuCharme E P	34205
Davidov R	39978	Delrieu M	40553	Dickerson G E	36698	Donald J D	33813	Duck R W	37083
Davidov R B	37081	Delucq	41610	Dickey J B R	36142	Donald M N	37546	Duck R W	37956
Davidson J L	37518	Delvaux E L	38205	Dickey J B R	36183	Donatien A	37179	Ducoff L J	41083
Davidson R H	38723	Delwiche C C	34212	Dickey J B R	37290	Donatien A	37369	Ducet G	39389
Davies R O	34821	Delwiche C C	34576	Dickinson H	39300	Donatien A	38078	Dudal R	35797
Davin J A	37779	Demet J D	35881	Dickinson J C	40145	Donia J	41177	Dudley J E Jr	38728
Davis C C	40861	Demeter K J	39831	Dickinson T A	40672	Donia J	41178	Dugan D R	35651
Davis C R	37720	Demme H	36231	Dickman P B	40350	Doolittle S P	33974	Dugat M	38344
Davis D E	33709	Demmon E L	36322	Dickson A	37906	Doorme H	37180	Dugat M	38345
Davis D R	41496	Demolon A	33906	Dickson R C	34196	Dopson L	39780	Dugat M	38346
Davis D W	33710	Demolon A	41175	Dieckmann F A	41001	Dorier R E	38671	Dugat M	38347
Davis E	33905	Demortier G	35728	Dieckmann M R	38083	Dorfman R I	37697	Dugelay A	36491
Davis E A	34514	Demortier G	41916	Diégues Junior	40925	Döring	41526	Duggan I W	41466
Davis G E	38443	Dempsey M	40603	M		Dorlon P A	41411	Duggan I W	41612
Davis G K	37245	Dempsey M	40671	Diemer G	38341	Dorlon P A	41611	Dukhanin K S	35041
Davis G K	37676	Dencker	39019	Diesel A M	36823	Dormal S	38205	Dullforce W	34993
Davis J G	39979	Dencker C H	39147	Dieterich	36429	Dörr W	40984	Dullin A	41613
Davis L D	35129	Denjean Y	37531	Dieterich V	36232	Dörrenhaus F	35300	Dumaresq J A	36727
Davis L L	39520	Denman T E	38202	Dieterich E J	38444	Dorsman C	40247	Dumont B	40646
Davis N H	35454	Denmark Sta-	39642	Dietz G	38736	Dorst H E	38446	Dumont H M	40722
Davis P H	33811	tistische Dept		Dietz S M	38342	Doss M A	36896	Duncan D C	37625
Davis V H	33972	Denmark Sta-	41113	Diffidenti E	41015	Dost F H	36145	Duncan W R J	39688
Davis W C	37143	tistische Dept		Dijkman M J	35677	Douglas H C	34390	Dunegan J C	34075
Davis W S Jr	36090	Denmark	41697	Dijkstra J M	38598	Douglas S W	37367	Dunegan J C	35135
Davison J R	39192	Statistiske		Dijkstra N D	36726	Doutt R L	38738	Dungan G H	34436
Davydova L P	37530	Dept		Dikasova E T	38934	Dovaston H F	38206	Dungan G H	34727
Dawson E H	39438	Denmark Vete-	36821	Dillon E	39828	Dowden N	39781	Dungan G H	35488
Dawson E Y	33890	rinaer- og		Dillon G E	39382	Dowden P B	38858	Dunlap M E	36611
Dawson J C	39598	Landbohøjskole		Dillon J M	35824	Dowdy W W	38146	Dunlap W H	35489
Day E L	39370	Denmark Union	40617	Dillon M	41301	Downen M L	41380	Dunn C H	37901
Day G H	41686	Stockyard Co		Dillon R S Jr	35039	Downey L A	38119	Dunn M	41755
Day G M	34288	Deputy O D	41875	Dills L E	38205	Downing D	39020	Dunn M S	39439
Day L	35296	Dequae A	40144	Dimtropolis E	36958	Downing D	41179	Dunne H	40146
Dean A L	37871	Derfabin D I	36433	Dimmock A W	33973	Doxey D	34435	Dunstan W J	34577
Dean A L	39299	Dérribéré M	36580	Dimo V N	34629	Doyle L P	38100	Du Plessis	39555
Dean B H	36820	Dérribéré M	38203					C van H	
								Du Plessis	40556
								C van H	



	Item		Item		Item		Item		Item
Du Plessis	41467	Edwards J G	38505	Enders C	39692	Everitt D	35391	Felsing E	38349
C van H		Edwards J T	36828	Enge G	34665	Everly J	38120	Felten O E	35229
Dupont L	39121	Edwards M V	36388	Enge G	35616	Everly J	38121	Fenaroli L	34671
Dupré G	39689	Edwards P W	40061	Engel	38208	Evers H	36682	Fenley J M	39071
Dupree M	38170	Edwards R L	36185	Engel	38740	Everson A C	34823	Fennah R G	38742
Durand-	41614	Edwards R L	36186	Engel O	36146	Everson A C	34824	Fennah R G	38806
Drouhin J		Edwards R L	39348	Engel R E	35306	Everts A B	36492	Fenne S B	34131
Durinov S A	38860	Egberts H	35884	Engeler W	36961	Every D	36632	Fennell D I	34333
Dürr K	41302	Egdell J W	39832	Engelhard J	34666	Ewbank F C	39947	Fennell J L	35491
Durrell W B	37084	Eggert R J	40611	Engelhard J	40149	Eweson E	35826	Fenner O L	34826
Durrieu R	37490	Eggman L	34416	Engelhardt	35180	Ewing E C Jr	34764	Fenton F	40409
Dusenberry H L	36013	Egorova N	34820	Engelhardt	39693	Ewing E C Jr	34765	Fenton F A	38735
Dushutina K K	35179	Egypt Cotton	34766	Engels O	33976	Ewing K P	38209	Ferauge M T	35235
Dussailant A	39690	Research Board		England F	39536	Ewins A	37613	Ferguson A E	37784
Dustin J H	35301	Egypt Ministry	41702	Engledow E	34768	Eynden G P A	34668	Ferguson C M	40075
Dutcher R A	41836	of Finance		Engler R	41616	van den		Ferguson I A C	34197
Duval G	38504	Statistical		English L L	38448	Eynden G P A	34825	Ferguson J H A	36324
Du Vignaux	36410	Admin		Enigk K	37428	van den		Ferguson M H	35618
Dvínfaninov M	36514	Ehnrot B	39148	Enikeev Kh K	35042	Eystr W H	36143	Ferm J C	33714
Dye J A	37241	Ehlers M H	36962	Ensminger M E	37217			Fernández A	40985
Dyer A J	36729	Ehrenberg P	35612	Ensminger M E	38051	Faber J E Jr	36831	Fernández-	39696
Dyrbye N	36959	Ehrlich C	38079	Ensminger M E	38051	Fabius Frère	33881	Collado D	
Dzenis L	37686	Ehrlich C	39877	Epshin A S	40928	Fabre R	39694	Fernholm H	40240
Dzenis L	38607	Ehrlich C	39984	Erb R E	36962	Fabricant J	37677	Féron	38506
Dzhabua V V	35098	Ehrnrooth L	37902	Erb R E	37077	Fagan V J	40647	Féron	38506
		Eichler W	38601	Erchenkov G	40557	Fagerström L	33775	Ferrand	39025
		Eichler W	38953	Ercoli E	37086	Fagundes F C	33977	Ferrando R	37087
		Eichler W	38954	Eremeev I	39149	Fahey H N	35099	Ferrando R	37088
		Eick E	36435	Erickson L C	34439	Fahey J E	38186	Ferrer V O	41300
		Elde P M	38602	Ericson F L	41363	Fahn A	34440	Ferriols V	37183
		Elfrig H	34437	Erikson A L	40619	Faldley K	40673	Ferris C	41377
		Elfrig H	34621	Erikson A L	40662	Fairbairn J W	34292	Ferris F H	38035
		Elgsti O J	34290	Eriksson G	35886	Fairbanks E H	40150	Ferris G F	38740
		Elinstein H A	36091	Erkamo V	33713	Fairchild G B	38604	Ferris J	40648
		Elsele C W	37218	Erkamo V	33814	Fairchild G B	38605	Ferte J	35915
		Elsetl M	35302	Erkamo V	33816	Fairchild R S	34669	Fess L E	37409
		Eltan E	36187	Erkamo V	35678	Fajersson F	34670	Fethers G	36829
		Ekerot N	36729	Ermisch K H	40723	Fajersson F	34670	Fethers G	37370
		Elagin I	41114	Ernst	36234	Fales J H	38210	Fetherston G H	33817
		Elagin I N	34438	Ernst J	41002	Fandeev B V	36966	Fetrow W W	40151
		Elam G W	37990	Eschmeyer N	40306	Fang C	35102	Fetterolf H C	41528
		Elgar N E B	39302	Esfandiari E	33907	Fardy D	34286	Fetzer G	34638
		Eliseev I	39973	Eshbach C E	39485	Faria e Mala	40558	Feuchter	34622
		Elkington W M	40800	Eshbach C E	41617	V M		Feuerlein	35989
		Elkington W N	37782	Eskeew R K	40061	Farinas E C	36915	Feuerstein H	35619
		Elkonin N G	34664	Esmond C W	39836	Farish L R	35493	Feustel I C	40860
		Ellern S J	39261	Esmond C W	39836	Farley T	37408	Ficker	34623
		Elling C G	38009	Esmond C W	39836	Farmer E C	39985	Fidler J C	40386
		Elliot E	34291	Espeo del Pozo	37451	Farmer F A	37549	Fieger E A	41000
		Elliott C	35303	G		Farmer S	38986	Field H I	38081
		Elliott E A	38603	Esselen W B Jr	40288	Farnham C H	34946	Field W D	38861
		Elliott F C	34369	Esson J G	35492	Farrington R L	41041	Fields M	34562
		Elliott J A	36960	Esteban M	38044	Fath A	39175	Fiera di	34994
		Elliott J A	38043	Estes I	36436	Fath A	39176	Bologna	
		Elliott R	40305	Estévez I	36235	Fatherree A P	41184	Fife L C	38566
		Ellis C K	35304	Estrada A	35741	Faucher D	40351	Figueroa F	39697
		Ellis D E	33975	Esty J R	39600	Faulkner E H	35988	M	
		Ellis D E	36139	Etter H	35130	Faust H P	39986	Filini E	34920
		Ellis F E	37085	Etter T F	41303	Favera R D	37292	Filini E	41480
		Ellis F W	35613	Eva W J	39441	Favre F	37903	Filini E	41520
		Ellis N K	36023	Evans A W	40929	Favreau A	38211	Filhes A	40720
		Ellsworth A	37783	Evans A W	41183	Favret E A	34370	Fillmore R H	39340
		Elmer C A	35441	Evans D	36681	Fawkes G	37904	Finkelstein	4118
		Elmer S	37200	Evans G	40889	Feagan J T	39833	H W	
		Elston J	36015	Evans G O	38449	Federer W T	41948	Fine L O	3601
		Elter L	34369	Evans G O	38450	Federico G	37182	Fingerling G	3804
		Elting J P	40148	Evans G R	38241	Fedofishin A M	39021	Fink H C	3419
		Elvehjem C A	37623	Evans H	35617	Fedorenko I U	40257	Finkel' S B	3985
		Ely R J W	39643	Evans H C	40307	Fedorov M V	34578	Finland Metsä-	3622
		Emel'ianov I	39283	Evans H J	35742	Fedorov A V	35043	tielteellisen	
		Emery A U	41381	Evans H J	35743	Fedorov D M	38741	Koelaitoksen	
		Emilsson B	35491	Evans J D D	36389	Fehr J C	37872	Finn H R	3935
		Emilsson B	35614	Evans J V	36963	Feinbrun N	33776	Finn H R	4138
		Emme A M	38936	Evans J V	36964	Felst H	35044	Firbas E	3582
		Emmerson D W	40927	Evans R J	40724	Felto López M	39695	Firsova M K	4089
		Emrich E	35885	Evans S	35307	Feldman H	39470	Fischer	3920
		Emsbo P	38080	Evans V V	36965	Felice P de	41468	Fischer A	4161
		Emsweller S L	35305	Eventus	38348	Feller Sh V	40930	Fischer B	3530
				Everett P	35234	Fellers C R	40288		



Item	Item	Item	Item	Item
Fischer C W Jr 41004	Food and Agriculture Organization of the United Nations 41186	France Embassy U S Agricultural Sect 41186	Frietema H J 41194	Gama A M P da 34445
Fischer E H 40497	United Nations Australian National Committee 41187	France Institut National de la Statistique et des Etudes Economiques 41193	Fritz E 36203	Gama F da C 34673
Fischer G W 34076	Food and Agriculture Organization of the United Nations National FAO Committee of Finland 38744	France Institut National de la Statistique et des Etudes Economiques 41383	Fritz E 36411	Gamba C 41431
Fischer G W 34077	Forbes E F 40674	France Institut National de la Statistique et des Etudes Economiques 41872	Fritz J C 36437	Ganesan D 34772
Fischer H 34078	Ford K D 37104	Francini E 41703	Fritzsche R 34443	Gangstad E O 34777
Fischer H 36830	Ford S 41043	Francis J H 40803	Fröier K 34771	Gapen C E 35313
Fischer W 33973	Forde H I 35240	Francis M 40481	Fröier K 35889	Gapen K N 34928
Fish N A 39921	Forde L 41530	Francis M 40803	Frölich 40621	Garantier J 36159
Fisher A A 38451	Foreman M 37532	Franch B 40481	Frölov L 33177	Garassini L A 39521
Fisher C E 35620	Forlani R 34372	Franclemont J G 38862	Frommann H 39232	Garassini L A 39835
Fisher C E 35621	Forns J J 40076	Franchot P 35171	Fronius H 36556	Garay López H 35625
Fisher E E 33715	Forster I W 38350	Frank F W 37424	Frost L J 40681	Garbarino A J 39783
Fisher E G 35441	Forsythe R H 40790	Frank F W 37430	Frost S L 36326	Garber E D 33819
Fisher H S 39987	Forsythe R H 40802	Franken U K 41413	Frow R W 38355	Garber E D 34294
Fisher L B 35309	Fort Wayne Ind Milk Market Administrator 39878	Frankena H J 36731	Fryjordet T 36327	Garbini S E 34674
Fisher T W 38736	Fort Worth Stockyards 40620	Franklin N L 40077	Fu C L 34969	Garbini S E 34675
Fisher T W 38802	Fortuna R 35100	Franks A G 38451	Fuchs W H 35744	Garba R J 38452
Fisk F W 38673	Fortunet P 36526	Fransson A 37294	Fuchslocher R 41620	Garcia Alfonso C 37491
Fiske J N 35151	Fortushny V A 38474	Franz H 35767	Fudge J F 36158	Garcia de Andoain J 40727
Fistere C M 39925	Foster J F 38083	Fraoch 36968	Fudge J F 38252	Garcia de Paredes A B 37786
Fitch J B 39782	Foster J W 36831	Frappa C 38917	Fuelleman R F 34946	Garcia Hernán- dez L 41531
Fitko R 38082	Foster R L 34828	Frappa C 39122	Fuhrman D K 34539	Garcia Isidro M 41432
Fitzgerald O A 35495	Fouad I University Faculty of Science 33865	Fraser A 36969	Fujiwara A 36148	Gard R E 41486
Fitzgerald O A 35622	Fouquet 36730	Fraser A S 37971	Fullagar H R 38988	Gardiner J G 41704
Fitzgerald O A 35887	Fourchy P 36390	Fraser F C 38956	Fuller H S 38486	Gardner L I 37386
Fitzner A H 34983	Fourie F C 41619	Fraser H 35498	Fullerton A W 36528	Gardner V R 34995
Fitzpatrick R E 34211	van N 39926	Fraser H M 38352	Fullerton F H 39602	Garman P 38192
Fitzsimmons E J 41074	Fouts E L 39041	Fraser H M 38353	Fullmer F 35873	Garner F 40308
Fjelddalen J 33979	Fouts K C 39041	Fraser H M 38354	Fulton D 40561	Garnett W E 41833
Flad A 37678	Fowle F E 38351	Fraser H M 40527	Fulton R A 38213	Garoglio P J 40293
Flad J J 35310	Fowler H S 35679	Fraser J F 37785	Fulton R A 38746	Garrett J C 35314
Flad J J 35438	Fowler M E 34079	Frazer A C 39601	Fumelli A 35890	Garrison C S 34831
Flake J C 39834	Fowler S 37293	Frazier W C 39997	Funk C W 37567	Garriss H R 34178
Flaschka H 40740	Fox A C 36360	Frear D E H 38205	Furlong J R 40675	Garside G H 35315
Flawn L 35496	Fox I 38955	Frederickson K 38987	Furniss G B 35312	Garst R 41195
Fleischel H 36147	Fox M 34829	Fredericksen T 39150	Furrer J D 34672	Garwood J 41532
Fleming C M 40152	Fox W B 34258	Frederiksen L 34441	Fussell G E 34930	Gaselee J 37787
Fleming F 41832	Fraenkel G 38509	Fredriksson L 35888	Fussell G E 37533	Gasparini M 35891
Fleming R L 38508	France Comité Interministériel de l'Alimentation et de l'Agriculture 41188	Freed V H 35624	Fussell G E 41364	Gasser R 38567
Flemming 36662	France Direction de la Documentation 39557	Freeland R O 34579	Fussell G E 41873	Gast K 41384
Fleschner C A 38444	France Direction de la Documentation 41045	Fregola C 35181	Fuster B O 37452	Gastel R 34582
Fleschner C A 38736	France Direction de la Documentation 41189	Friel G 39955	Fynn P J 40152	Gastler G 36763
Fletcher A L 40559	France Direction de la Documentation 41190	Freitas H de 39371	Gabillard E 36970	Gastrock E A 40737
Fletcher A L 40726	France Direction de la Documentation 41191	Freitas J L P de 38745	Gaboriau R 39956	Gatti G 40153
Fleury F 36967	France Direction de la Documentation 41192	French H E 36287	Gadd W E 36588	Gauchet G 35719
Fleury F 40931	Food and Agriculture Organization of the United Nations 41909	French H W 40663	Gaddo F di 39743	Gaud J 38674
Flock R A 34194		Frenkel A H 40560	Gaddy V L 36175	Gaudy C A 37879
Flora C M 41042		Frese H 39103	Gahan A B 41899	Gaudy C A 37880
Florea J H 40801		Freund W 36916	Gahan H 38821	Gaul 34773
Florenzano G 39698		Frey-Wyssling A 40986	Gaidaburov S D 37534	Gaumnitz E W 39784
Flores Calderón E 36607		Frick G E 41358	Gaillard R 38356	Gaunt F 37295
Florida Engineering and Industrial Experiment Station 35427		Frick Davie C 41430	Gaillard R 38963	Gaus G E 40218
Flory W S Jr 34371		Fricke E F 34624	Gaines J C 38260	Gaus H 39010
Floyd C 36325		Frickinger H W 38212	Gaiser L O 33818	Gausman H W 34436
Flucher H 39358		Friedberger K 39303	Gaitandjeff G 38084	Gautheret R 34494
Fogg G E 34293		Friedell R W 38083	Gallacia D F 36663	Gautier J 40154
Fogg G E 34592		Friedrich J C 34769	Gallilee M 34625	Gautreau J J 37995
Folles M W 35623		Friedmann G 36017	Gallas G 34444	Gavaudan P 34296
Folt S C 34497		Friedrich W 36527	Gallas G 34580	Gavaudan P 34296
Folquier F 35497		Friend W H 34770	Gallay R 38517	Gaveau R 39023
Foltz F 35311		Fries K W 36633	Gallejo Piedrafitia J 37568	Gavrilevich B B 35182
Fonseca A X da 35766			Galley R A E 38214	Gayatonde N S 34297
Fonseca J P da 38606			Gallina L 37181	Gayden H P 36972
Food and Agriculture Organization of the United Nations 410251			Gallo F 40252	Gayford G W 35045
Food and Agriculture Organization of the United Nations 41909			Galloway Cattle Society of Gt Brit and Ireland 36971	Gayot G 37179
			Gallup W D 37972	Gayot G 37369
			Galston A W 34581	Gayot G 38078
			Galustan M S 39075	Gazonnaud R 36288
				Gede T 41017
				Gee J C de 35745



Item	Item	Item	Item	Item
Geel J D W van 35469	Glenger G W 39234	Golubev N A 39235	Gorup Freiherr 36530	Gt Brit Dept of 36599
Geel J D W van 39048	Gifford E M Jr 34298	Golubsov K F 34933	Got N 35133	Scientific and
Geerken B 38357	Gilbertson H W 41535	Golyshev L S 39123	Gothier F 37439	Industrial Re-
Geert A van 35316	Gilbreath J C 37569	Gomes P 35894	Gottlieb D 33718	search
Geib A F 38675	Gildow E M 37679	Gomes P 40935	Gouldie A G 36018	Forest Products
Geib A F 38691	Giles B D 41385	Gomez A M 40389	Gould C J 34083	Research
Geler P 38517	Gillese J P 35183	Gomez L 36474	Gould D J 38453	Board
Geler Z 41533	Gillespie W F 36635	Gómez P 39026	Gould E 35768	Gt Brit 40160
Geiger 41534	Gillette E C 40934	Gómez Clemente 34199	Gould I A 39989	Exchequer and
Geiger J E 38359	Gillett J D 38677	F 36237	Gould R 35996	Auditing Dept
Geiger J E 38359	Gillett J D 38701	Gomez Gonzalez 36237	Gould W A 40334	Gt Brit Forestry 36241
Geijskes D C 38958	Gillette G M 39558	F 36238	Goulet P 38793	Commission
Geller H F 39151	Gilling T 39024	Gómez Gonzá- 36238	Goulter S J 37905	Gt Brit Ministry 34232
Geiser D S 40891	Gillis M B 36733	lez F 36239	Goulter S J 37906	of Agriculture
Geissler G 34446	Gillis M B 37680	Gómez 36239	Govin L 39305	and Fisheries
Geisler G N 34080	Gillman W 35499	Gutiérrez A 37996	Govindu H C 34301	Gt Brit Ministry 39306
Gelein C 35317	Gilman P A 39006	Gómez Pérez P 36667	Gowans W J 40863	of Agriculture
Gelein C 35318	Gilman W 36664	Gonçalves P A 34678	Gowda M 35680	and Fisheries
Gemerem P van 39207	Gilman W 36664	Gonçalves P A 39027	Graber J M 37551	Gt Brit Ministry 39350
Gemmekke 40562	Gilpatrick J D 33960	Gonçalves P A 39028	Graci A V Jr 40737	of Agriculture
Gemmell J T 36737	Ginsburg J M 38678	Gonçalves 35158	Grado B I 39236	and Fisheries
Gendelman M 41456	Glorgi G 41433	R D 39236	Graeve K 38218	Gt Brit Ministry 39644
Generoso J D 37183	Glorgi G 41874	Gondim E de C 33981	Graf E D Jr 41046	of Agriculture
Generoso J D 38085	Giorgini G 35992	Gondim E de C 34679	Graf L H 34224	and Fisheries
Genie G 37983	Giraldo H C 40078	Gonon W F 39454	Graff Y 40390	Gt Brit Ministry 39990
Geniez P 39360	Giraud L 35181	Gonon W F 39455	Grafius J E 34680	of Agriculture
Genin G 40155	Girouy G 36833	González Arroyo 39284	Graham C 38219	and Fisheries
Genkel P A 34447	Giscard R 34832	S 34834	Graham C A 35605	Gt Brit National 35500
Genoud J 41196	Gistl R 40294	González Cubillo 36834	Graham J W 37907	Agricultural
Genter C F 34676	Gjaerum H B 34081	González García 38217	Graham R 37657	Advisory Serv
Georgia Swine 38015	Glaser E G 37789	Gutiérrez A 36529	Graham R 37684	Green D D 41834
Breeder's	Glaser G 38123	González 36529	Gramatzki 37190	Green E P 41537
Association	Glass E H 34450	Múzquiz M 40936	Grandcourt O de 36240	Green G W 40528
Gerasimov A 41305	Glassecock R S 38039	Orama P 34965	Grandori R 38220	Green J M 34381
Gerber E 37185	Glassecock R S 41807	González Ríos 34965	Grandstaff J O 37927	Green J M 34774
Gerbex R F 37453	Glasser M A 41536	P 39390	Grandstaff J O 37932	Green M E 40649
Gerbex R F 37454	Glassman S F 33777	González Rod- 39390	Grant A B 37790	Green R J 34084
Gerbex R F 37535	Glazener E W 37557	riguez J 37089	Grant H P 39879	Green S 35320
Gerdas F L 40156	Gleisberg H 38937	Gooch J W 37189	Grant R 36837	Greenaway J 38362
Gerebtzoff M A 38215	Glendening G E 35626	Good G H 40972	Grant T J 34193	Greenaway J 40529
Gerhardt F 37087	Glenn E M 35236	Goodman A E 38459	Grant T J 34200	Greenberg J 38680
Gerhardt F 40352	Glennon W E 40079	Goode C O 41567	Grassé P P 38959	Greene J E 37372
Gerigney P 40728	Glock W S 34299	Goodhue W 36936	Grassmann 36149	Greene L 35712
Gerling J 35319	Gloucester Eng 39025	Goodlow R J 39988	Grassmann W 39443	Greenham D W 35998
Germ H 34272	Folk Museum 39025	Goodman F L 39988	Graton A 38960	Greenleaf C A 39523
German R 34677	Glover D W 39934	Goodwin R H 34451	Grau C R 37611	Greenleaf C A 39603
Gerritsen C J 351	Glover F A 37188	Goodwin R H 34583	Graubner W 37371	Greenspan F P 40391
Gerry B I 38676	Glukhov I G 35185	Gorbanov V A 39178	Gray A W 39486	Greenwood A W 37791
Gersuori G 38510	Glufskii I Y 36438	Gorbachev I D 35895	Gray A W 39928	Greenwood D E 38456
Gershgorn A D 40932	Glynn L L 37492	Gordeuk S Jr 37682	Gray G P 35897	Gregg E W 35321
Gersons L 35132	Gnoevoy P 40676	Gordienko M 35720	Gray H A 33719	Grégoire C 38919
Gertler S I 38177	Gobbi E J 37789	Gordienko S IA 39164	Gray H F 38679	Gregor B 40567
Gefman V 41306	Gober N M Jr 34774	Gordon E M 34452	Gray N E 33820	Greig S 40335
Geyer H 41792	Godan D 39511	Gordon G E 37296	Gray R C 40566	Grek A V 35046
Ghisleni P L 34448	Godbersen G 39927	Gordon M 39522	Grayson J M 38148	Grémio do 34681
Ghose S N 40122	Godden F W 36493	Gordon R F 37683	Grayson J M 38918	Milho Colonial
Ghysen J J 40933	Godel' A 39980	Gordon S A 34453	Graziers' Asso- 36917	Português
Glacobbé A 36649	Goding F W 38747	Gordon W S 36836	ciation of New 36917	
Giacomini V 33802	Godwin H 37706	Gordon-Darnton 40862	South Wales	Gt Brit Board 41163
Giannuoli S 34449	Godwin H 37717	D J 40862		of Trade
Gibberd A V 34203	Goeser P A 40652	Gordunova N P 34300	Gt Brit 41197	Colonial Off
Gibbons N E 39086	Goetz A W 40677	Gorelov B A 39699	Gt Brit Colonial 41930	Off
Gibbons W J 36832	Goetz H 35893	Gorelov K I 37437	Gt Brit Com- 40159	monwealth
Gibbons W J 37186	Goetz K 36188	Gorham J R 37424	Economic 40159	Committee
Gibbons W J 37187	Goetz K 39304	Gorham J R 37429	Intelligence Br 40159	
Gibbs L C 34991	Goidanich G 40337	Gorham J R 37430	Gt Brit Comp- 40937	troller and
Gibbs M 34582	Gokhale V P 34082	Gorham J R 37432	Auditor Gener- 40937	al
Gibbs R 40563	Goldberg J B 40157	Gorin F R 41091	Gt Brit Dept of 41931	Scientific and
Gibbert H 37087	Goldberg J B 40157	Gorin F 40381	Industrial Re- 41931	search
Gibbert H 40364	Goldberger P 37681	Gorin F 40381		
Gibbert H 40364	Goldsoy A I 37681	Gorin F 40381		
Gibbert H 40364	Goldworthy 33980	Gorin F 40381		
Gibbert H 41307	M C 33980	Gorin F 40381		
Gibson F 33716	Golewaty R N 39442	Gorin F 40381		
Gibson J M 41705	Golubash IU 41308	Gorin F 40381		



	Item		Item		Item		Item		Item
Griffiths R B	37192	Guldener H van	35047	Hagsand E	35628	Hanke E	39838	Hart F H	37799
Griffiths R L	34835	Gulfaev A N	34627	Hague W	37793	Hanlan R M	38363	Hart F H	39079
Grigson G	35323	Gul'ko L E	37081	Hahmann K	33908	Hanna R T	36494	Hart G H	35828
Grillot G	35990	Gull P W	35899	Hahmann K	34201	Hannah J A	41542	Hart J C	35829
Grimm L	37090	Gullickson T W	37103	Hahmann K	35629	Hannon R C	40082	Hart J C	36094
Grimsley C J	41667	Gunderson F L	39604	Hahne	40939	Hansard S L	39077	Hartard Ebert M	40476
Grindlay J H	37394	Gundlach G P	39836	Hahne A	40442	Hansen C J	35237	Hartard Ebert M	41457
Grindley J	38221	Gundlach G P	39880	Haim S	35682	Hansen C M	35048	Harth Terre L	34997
Griot M	38748	Gunter A C	38199	Haines B M	40603	Hansen N	40894	Hartley C W S	39029
Grison P	38513	Günthart E	38514	Haines F	37456	Hansen P A	36831	Hartmann H P	38519
Griswold R M	41793	Günther H	36412	Halsma J P	35503	Hansen-Larsen L	36977	Hartmann H T	35106
Groeneveld C	35186	Gurinovich L S	36214	Halsma J P	40254	Hansens E J	37193	Hartmann H T	35237
Groenewegen J H	35501	Gurney A B	38920	Håkansson R	41540	Hansens E J	38609	Hartt C E	34458
Grøntved P	40893	Gurney A B	38921	Hakulinen R	33909	Hanser P	35991	Hartwell W V	38064
Grootjans A	39487	Gurney A B	41875	Hakulinen R	33910	Hanson C	38880	Harvey C	34630
Gros A	41538	Gurr C G	35725	Halberstadt M	39948	Hanson D	39078	Harvey C	34841
Groschke A C	40724	Guseynov D M	35900	Halcrow H G	41200	Hanson S G	41201	Harvey H G	35330
Gross D L	34836	Gusev B A	37438	Hale M	37794	Hanten H	35901	Harvey J R	40806
Gross F C	34682	Gusler G	39786	Hale M	37795	Happ	37094	Harvey J R	41387
Gross M	37792	Gusler G	40804	Hale M	37796	Haraki M J	36093	Harvey N P	35331
Grossman J	35324	Gusovius H	36243	Hale M	37797	Hardacre W	40164	Harvey P H	34685
Grossman R I	39104	Gussak V B	34628	Halick J V	37607	Hardenburg E V	35504	Harvey W R	36980
Groves D	34837	Gustafsson N	35491	Halick J V	37615	Hardy E A	39105	Harvill A M	33862
Groves D	37298	Gustafsson N	35614	Hall B A	34302	Hardy E A	39179	Haselbach C H	40497
Groves D E	36092	Gustafsson Y	41309	Hall C	40678	Hardy G H	38610	Haskell G	34373
Grow O	37571	Guthrie L R	36661	Hall D G	41877	Hardy J	36189	Haskell G	34374
Gruget E A	41386	Gutierrez J	37734	Hall D W	38751	Hardy W H	37573	Haskell R J	34163
Gruhn R	38016	Gutman G O	41469	Hall E G	40336	Hardy W J	36974	Haskell W H	39839
Grummer R H	38025	Guy E B	37350	Hall H	35326	Hardy W J	36978	Haskins C P	38808
Grünwald	36372	Guy L P	41775	Hall J W	34303	Hargrove B D	35902	Haskins E F	38808
Gruyter P de	41199	Guyomard L	34085	Hall L A	39625	Harling F	38016	Haslund O	36545
Grylls N E	38222	Guyot L	34404	Hall M A	35327	Harler C R	39701	Hassall A	36896
Gualandi G	37685	Guzman M de	35627	Hall M D	37572	Harley A	40940	Hasselt W	36566
Gualba C	35502	Gwatkin R	37686	Hall M D	37793	Harley C P	35992	Hastie C N	35332
Guard A T	34332	Gwatkin R	38087	Hall R H	40604	Harley J L	34457	Hastings S W	35049
Guard A T	34462	Gwatkin R	38607	Hall T H	40472	Harlow C G	36979	Hastings W H	41005
Guard S R	36974	Gwin J M	40805	Hallberg O A	40393	Harms F	36840	Hastings W R	35333
Guard S R	40470	Gynn G	41539	Halle J	34839	Harms F	36840	Hastings W R	35506
Gubarevich I A G	36839	Györfi I	34247	Hallema A	40255	Harnach R	38364	Hatcher E S J	34585
Guelle C E	39124			Haller H L	39224	Harney A R	37194	Hathorn R E	41117
Guennelon R	35739	Haan H de	34683	Haller M H	35135	Harp H P	38518	Hattemer	34087
Guennelon-Aubanel G	38512	Haan H de	34684	Halliday H E	33982	Harper M	35929	Hauck	35507
Guennelon-Aubanel G	38513	Haapala J	33921	Hallsworth E G	40081	Harper M	39490	Hauck	35903
Guennelon-Aubanel G	38749	Haarer A E	34454	Halvorsen E	39307	Harper R	39922	Hauer E	35904
Gueorguiev B	38475	Haarer A E	40162	Hamant C	34304	Harrington A H	34951	Haug P	37688
Guérard R	34947	Haartman L von	38608	Hambrock E	40473	Harrington E G	38989	Haugen O I	41312
Guérault A M	39991	Haas A R C	34455	Hamburger V	37687	Harrington J B	41311	Haugset A	40477
Guerillot-Vinet	37092	Haase G	37373	Hamer R S	37299	Harrington L	37351	Havighorst C R	39606
Guerillot-Vinet Mme	37092	Haase G	41310	Hamilton C M	37664	Harrington R	37351	Haviland W E	40987
Gueroult G	39785	Habran R	40253	Hamilton H L	37687	Harrington W C	39308	Havis A L	35134
Guha S K	38223	Hackelman J C	40883	Hamilton T S	36019	Harrington W C	39309	Havis A L	35135
Guignard G	40938	Hackman W	38454	Hamilton T S	36735	Harrington W O	40412	Hawaii Board of Commissioners of Agriculture and Forestry	41313
Guilbert H R	36734	Hadaway A B	38681	Hamlin H M	41541	Harris Sir A T	41706	Hawaii Commissioner of Public Lands	
Guilkey P C	36292	Haddow A J	38677	Hammer E	39488	Harris G H	35993	Hawkes A D	33822
Guillaume P	39414	Hadeler W D	39605	Hammond A E	39489	Harris H C	35746	Hawkes A D	33823
Guillemain R	38750	Hadeler W D	39954	Hammond A E	40353	Harris J H	35505	Hawkey K	37960
Guillemain R	38807	Hadiwidjaja T	24227	Hammond A E	40394	Harris L E	36841	hawks S N	34984
Guillemot J	41621	Hadland K	35325	Hammond A E	40395	Harris L E	37425	Haworth F	34083
Guimarães A	39700	Hadley C H	41876	Hammond J G	36589	Harris M	41311	Haworth F	34151
Guimarães L R	38961	Hadley H N	39401	Hammond L C	34456	Harris M	40130	Haworth-Booth M	35333
Guimarães L R	38962	Hadlow W J	37191	Hamner A L	38251	Harris R H	40471	Hawthorne D C	41313
Guimarães L R	38963	Huertlein H	34707	Hamy A	34629	Harris R H	40472	Hay R	35335
Guimont J A	37455	Huertlein H	40471	Hanaoka M	40163	Harris R S	40473	Haydak M H	34365
Guinier P	36289	Haeussler G J	41899	Hancock H H	34766	Harris V C	35630	Haygood T F	41097
Guinot M	39076	Haffert W A Jr	36975	Hancock J	37093	Harris W B	34086	Hayes J B	40807
Guisa y Azevedo J	36242	Häfliger E	38515	Hancock J L	36700	Harrison A G	40530	Haynes D O	39491
Gukas'ian A S	35187	Hafner R	36565	Handy E	41754	Harrison C M	34840	Haynes V M	39862
Gukasov A I	34938	Haga T	37523	Haney H F	40923	Harrison E S	37195		
Gulati A N	40161	Hagedoorn A L	36699	Hani E	33981	Harrod R F	41879		
		Hagen K	36933	Hanger F E W	35329	Harrow L S	39445		
		Hagerup A	36976	Hanke E	39792	Harshfield G S	37196		
		Hagood M J	41083	Hanke E	39837	Hart E B	37623		







	Item		Item		Item		Item		Item
Hull I H	41623	Ibarra Grasso A	38461	Institution of	40865	Ůskovets M K	37203	Jarl F	36744
Humbert W	39181	Ibrahim A A	39311	Rubber In-		Ivanov A A	39081	Jarnagin R A	34854
Hume H H	35344	Ick-Hewins S	41096	dustry		Ivanov A A	39182	Jarvis R	38374
Hume H H	35345	Idaho State	36249	Insulander N	40571	Ivanov A A	39183	Jaume J	41212
Hummel F C	36414	Forester		Intengan C L	41749	Ivanov P K	34852	Javillier M	41880
Humphreys G	41624	Idvall S	36743	International	39790	Ivanov S Z	40943	Jayne G	36634
Humphriss E	39992	Ihrig H G	33989	Association of		Ivanov T	39707	Jeanneau	35052
Hunt K E	39417	Ijbema A	39886	Ice Cream		Ivanov V I	36683	Jeannel R	39523
Hunt K E	40808	I'in A	40680	Manufacturers		Ivanovskii A I	34853	Jędraszko M	40729
Hunt R	40989	Illanes Abbott	41209	International	39994	Ivens G W	36467	Jeffers D S	36497
Hunt W J	36741	E		Association of		Ives P P	37804	Jeffers W F	36135
Hunter H R	37613	Illingworth F	35346	Ice Cream		Iyengar H N C	37204	Jefferson H G	34693
Hunter J E	36742	Illinois Dairy	39789	Manufacturers		Iyer S G	37577	Jeffreys M D W	41317
Huntington H I	40809	Products		International	41210	Iyer S G	37632	Jehlik P J	41478
Huntington H I	40810	Association		Bank for Re-		Iyer S G	37719	Jelmoni E	36844
Huntley D N	34093	Illinois State	41625	construction		Izbash A G	35994	Jenkins A E	34096
Hupka E	37493	Grange		and Develop-		Izcua H	34692	Jenkins A E	34109
Hurd P D Jr	38809	Illinois State	37202	ment	40171			Jenkins A E	41881
Hurlburt V L	41470	Veterinary		Federation of		Jack E L	39862	Jenkins D	41626
Hurley R F	40061	Medical Asso-		Master Cotton		Jackman E R	41550	Jenkins D W	38486
Hurlmann H	39705	ciation		Spinners' and		Jackman R H	35749	Jenkins D W	38686
Hurst F	34306	Special Com-		Manufacturers'		Jackson C H N	38589	Jenkins J A	34376
Hurt B C	35148	mittee on Bo-		Associations		Jackson E A	40310	Jenness R	39449
Hurt B C	35149	vine Mastitis		International	40172	Jackson G Jr	40826	Jenness R	39843
Hurt B C Jr	34767	Ilse K E	36249	Silk Congress		Jackson J W	36882	Jennings F W	41050
Hurtig H	38231	Ilton C D	38372	Sugar Council	40942	Jackson Lord	35138	Jenny G	35832
Hurtig H	38716	Ilukewitsch A	37727	Iofrish N P	38373	Jackson N	40896	Jenny G	41946
Hus P	33983	Ilvessalo Y	36205	Iowa Crop and	38124	Jackson R W	39477	Jenny J	35350
Husain A F A	41708	Imshenefskil	40170	Livestock		Jackson T L	35910	Jensen B F	41551
Husby M	38030	A A		Reporting		Jacob K D	36175	Jensen C	39995
Husfeld	34375	Inaoka M	38941	Serv	40895	Jacobi E F	35000	Jensen C O	41830
Hussey R F	38756	India Agricul-	39887	Iowa Crop Im-		Jacobi E F	35347	Jensen E A	40734
Hussey R F	38757	tural Market-		provement		Jacobs M B	40733	Jensen H L	39360
Hutchcroft C D	34688	ing Advisor		Association	41549	Jacobs W P	34466	Jensen J H	34180
Hutchinson	36095	Indian Coffee	35686	Iowa State		Jacotot H	37883	Jensen J H	38235
D E		Board		College of		Jacquot C	38522	Jensen M C	36022
Hutchison S B	36247	Indian Society	41012	Agriculture		Jaenisch	37578	Jensen T	36150
Hutson H C	35906	of Agricultural		and Mechanic		Jaffé W G	41795	Jensen T M	39931
Hutson H C	35907	Economics	41709	Arts		Jaffé W G	41796	Jepsen A	39932
Hutt F B	37576	Indian Tariff		Ippollitov M S	36843	Jagendorf A T	34467	Jeremy E	35514
Hutt F B	37672	Board		Irish Kennel	37353	Jagerschmidt	36328	Jesness O B	41071
Hutt F B	37693	Indiana Academy	41837	Club		Jaggard G	39791	Jesness O B	41213
Hutlar J C	40811	of Science		Irving N R	40173	Jaggard G	39930	Jessen L S	34377
Hutten H	37493	Indisch Instituut	41932	Irwin B L	39444	Jahn E	36392	Jex W F C	34967
Hutton K E	34094	Afdeling Trop-		Irwin M I	41758	Jahn E	38233	Jflek J	37205
Hutton K E	34179	ische Producten		Isaac L A	36440	Jakobsen P E	38047	Jilke W	39709
Huttunen E	34689	Indonesia	35745	Isaac S A Jr	34776	Jalas J	33829	Jifina K	37491
Huttunen E	34690	General Agri-		Isaacs R L Jr	35747	Jalas J	34249	Jockers	37206
Huttunen E	34691	cultural Re-		Isachsen K	41328	Jamaica Dept	35704	Joham H E	34470
Huymann M von	39752	search Sta-		Isely D	35632	of Agriculture		Johanning A	40486
Huysmans G L	38685	tion		Isherwood H R	38965	Jamaica Dept	35705	Johannsen O A	38615
Hyams E	34095	Indonesia General	35796	Ishida N	33726	of Agriculture		Johannsen O A	38616
Hyde H A	33725	Agri-		Is'fanov S	38125	Jamaica Dept	36995	Johanson F D	38192
Hyland W A	35908	cultural Re-		Isias S F	38758	of Agriculture		Johansson R	41214
Hyler J E	36571	search Sta-		Isle of Man	41348	Jamba N A	41049	Johansson T	39197
Hyler J E	36575	tion		Board of Agri-		James E	34468	Jöhnk M	37207
Hyler J E	36576	Indonesia	35806	culture and		James N D G	36415	Johns R	34203
Hyler J E	36618	General Agri-		Fisheries		James W O	34469	Johnson A A	34855
Hylmø B	38460	cultural Re-		Istituto Nazio-	41391	James W T	37411	Johnson B C	37100
		search Sta-		nale di Eco-		James W S	38231	Johnson C	37495
Ilgovkin A F	37099	tion		nomia Agraria		Jamison H E	39889	Johnson C G	38150
Ikovlev F G	39706	Indonesia	35811	Italy Corpo	36250	Janecke H	40485	Johnson D M	39493
Ikovlev V	41315	General Agri-		Forestate dello		Janke A	33913	Johnson E A	37619
Ikovlev V G	37924	cultural Re-		Stato Ispet-		Janowski B	40086	Johnson F	38236
Iaroshenko S	41316	search Sta-		torato Ri-		Janse J A	35348	Johnson H A	34956
Iaroshenko V	39968	tion		partimentale		Janse J A	35349	Johnson H W	37208
Iasakov K V	37303	Indonesia		di Bergamo		Jansen J	37694	Johnson K E	39889
Iastreb P	40257	General Agri-		Italy Istituto	39645	Jansson H	37305	Johnson K L	37209
Ibarra N H	39929	cultural Re-		Centrale di		Japan Dept of	41031	Johnson M A	33830
Ibarra F E	33929	search Sta-		Statistica		Agriculture and		Johnson M M	33727
Ibarra Garcia	34775	tion		Italy Ufficio	41391	Forestry		Johnson M M	34196
P				Nazionale		Investigation		Johnson M R	37459
				Statistico-		Sect		Johnson O C	40681
				Economico		Stabilization	41211	Johnson O R	41215
				dell'Agricol-		Board		Johnson P C	38521
				tura		Jaquemin L	39708	Johnson P E	34946
				Ittner N R	39312				
				Iudin V M	37908				
				IŮrmaliat A P	36920				
				IŮrmaliat A P	37304				
				IŮrtšovskii M A	34951				



	Item		Item		Item		Item		Item
Johnson P R	35958	Jugenheimer R W	34652	Kastendieck M	38618	Kennard D C	37620	King Shaw J	39528
Johnson R D	35351	Jugenheimer R W	34727	Kastli	39933	Kennard D C	37806	Kinget R	40087
Johnson R G	34857	Jugenheimer R W		Kaszab Z	38526	Kennedy C	36989	Kingman H E	37189
Johnson S	41200	Jukes T H	36746	Kaszab Z	38527	Kennedy C H	38810	Kingston R S T	36679
Johnson W H	35911	Jul R G	34950	Katchadourian der	36748	Kennedy J S	38923	Kingwill W	37910
Johnston A	40184	Julia H	39168	Kater J M	34475	Kennedy R Jr	39934	Kinman M L	34696
Johnston A	40185	Jull M A	37805	Katz R	38538	Kennedy W B	36568	Kinney J P	36251
Johnston C O	34097	June R I	40355	Kaufman J	40400	Kenney C H	38239	Kinsey H D	39841
Johnston C W	36745	Juni R A	36206	Kaufman V F	40401	Kenny S M	37807	Kinsey V E	37655
Johnston H W	35769	Junta Nacional da Cortica	36668	Kaufmann D R	39169	Kephart A E	39935	Kirchberg E	38687
Johnston I M	33831	Juon L	40735	Kaufmann F	36329	Kepper R A	39136	Kirchberg J C	36330
Johnston J C	35101	Juon P L	39607	Kaufmann F	40487	Kerling L C P	34476	Kircher W H	41075
Johnston J R	34789	Juréeen L	39646	Kaufmann H P	39447	Kern R	37997	Kircher W H	41219
Johnston J R	35655	Jurwitz L R	41917	Kaufmann H P	40736	Kernan H S	36290	Kirichenko G A	39313
Johnston R	40174	Juscafresa B	35190	Kaven G	35055	Kernan H S	41320	Kirilluk K G	35057
Johnstone D B	33734	Just F	36747	Kayser E	41904	Kerr H A	36130	Kirk R	38625
Johnstone E	37459	Jüsten	33990	Kazintsev D	37306	Kerr J E	36990	Kirk W G	37096
Joint Blowfly Control Committee	38617	Jüsten F	38237	Kazmakhov I	37460	Kerr W E	38811	Kirk W G	37097
Jolley H R	40232	Kabluchko G A	35053	Kearney C F	40813	Kersten C J	40489	Kirksey G	36847
Jolly A L	35687	Keathley M G	36393	Keaton H L	34774	Kerstens J	33993	Kirkup A Jr	36543
Jones A F	37354	Keaton H L	36635	Keefe F	36855	Kerstring	33994	Kirsner J B	37383
Jones B J	34858	Keegan H L	38463	Keefe F	36855	Kerstring	33995	Kirstein	39286
Jones C M	36988	Keenan S E	40356	Keegan H L	38463	Keshlear B	36026	Kisser J	36650
Jones D L	34789	Keener P D	34101	Keenan S E	40356	Ketron K C	41775	Kitchin-Kerr G E	40404
Jones D W	37096	Keener P D	34101	Keener P D	34101	Kettering D G	41392	Kith Y Tassara M	35683
Jones D W	37097	Keep J M	37375	Keep J M	37375	Keune O	40258	Kivenko S	39842
Jones F R	34859	Kegel K	35582	Kegel K	35582	Kew T J	40402	Kjar N A M	36737
Jones F R	39240	Kellbach R	38619	Kellbach R	38619	Keyser J S	41051	Klanfer K	40682
Jones F T	40439	Keilholz F J	37307	Keilholz F J	37307	Khan A A	40259	Klauditz W	36669
Jones J C	37674	Keiser F	38376	Keiser F	38376	Khan A A	41438	Klaus E	39715
Jones J C	38525	Keitt G W	34155	Keitt G W	34155	Kharchenko N A	39711	Klaus E	40311
Jones J H	36991	Kelbert D G A	35515	Kelbert D G A	35515	Kharchenko V A	36750	Klavaren F W van	41759
Jones J H	37063	Kelch F	40605	Kelch F	40605	Kharchenko V A	36750	Klebe H	36442
Jones J H	37326	Keleny G P	34102	Keleny G P	34102	Kharlamov G I	36441	Kleber W	40491
Jones J H	39445	Kellenbarger S	34951	Kellenbarger S	34951	Khitenkov G G	37461	Klecka A	35770
Jones J M	39561	Keller E F	41839	Keller E F	41839	Khitrinskiy V F	34694	Klein E	40492
Jones J M	40175	Keller H	39792	Keller H	39792	Khlestova T N	40574	Klein F	33996
Jones J O	35912	Keller J R	41004	Keller J R	41004	Khokhlov K A	39712	Klein G T	37579
Jones M D	39067	Keller K R	34632	Keller K R	34632	Khora M L	34297	Klein G T	40814
Jones Q	33832	Keller M	40498	Keller M	40498	Khranov E S	35239	Kleiner P	35360
Jones R D	41471	Keller W D	35799	Keller W D	35799	Khrennikov A	34778	Klement O	33915
Jones R E	41797	Kelley J	38127	Kelley J	38127	Khrushchev N S	41321	Klerk J C de	40178
Jones T G	41627	Kelley R B	37909	Kelley R B	37909	Khudjakov P	36027	Klesov M D	38620
Jones T N	39127	Kelley V W	38278	Kelley V W	38278	Khvylfa K S	39106	Klette H	38240
Jones W R	37101	Kelley W T	38377	Kelley W T	38377	Kibe M M	35753	Kliefoth F	39241
Jong G de	39184	Kelley W T	38378	Kelley W T	38378	Kidner A W	35517	Klimov G M	40089
Jong P de	34093	Kellogg C E	35722	Kellogg C E	35722	Kidson E B	34477	Kline I T	37697
Jong P de	34093	Kellogg C E	35722	Kellogg C E	35722	Kiefer R M	34477	Kline O L	40815
Jongedyk H A	36023	Kellogg C E	40572	Kellogg C E	40572	Kiel H	39890	Klinger D	39450
Jordan C	35189	Kellogg E B	39793	Kellogg E B	39793	Kielhöfer	39713	Klingman G C	35634
Jordan H E	37161	Kellogg J W	36749	Kellogg J W	36749	Kielhöfer E	39714	Klinkowski M	38633
Jordan P	39446	Kelly A	41552	Kelly A	41552	Kiely T	39714	Klitzing J von	34863
Jordan R M	36763	Kelly A W Jr	36498	Kelly A W Jr	36498	Kientsch A	40490	Kloft W	38759
Jordan R M	37102	Kelly C F	39312	Kelly C F	39312	Kiersnowski S	34695	Klomp G	39608
Jordbrukstekniska Institutet	38990	Kelly E	37376	Kelly E	37376	Kiesel G K	37377	Klompe G J	41220
Jorgensen E A	40807	Kelly G W	35357	Kelly G W	35357	Kieser F	37873	Klosterman E W	37104
Jørstad I	34100	Kelly J H	40573	Kelly J H	40573	Kieser M E	34595	Klosterman E W	37957
Jose F R	41811	Kelly J T	34861	Kelly J T	34861	Kikuchi M	33730	Kluge T O	40312
Josefsson A	34360	Kelly W C	39462	Kelly W C	39462	Kilfoil W P	40260	Klussendorf R C	36848
Josephson L M	34471	Kelman A	34180	Kelman A	34180	Killen T	40623	Knapp J G	41628
Joshua J O	37639	Kelshelmer E G	33932	Kelshelmer E G	33932	Killinger G B	35359	Knapp J G	41629
Jougan E	35139	Kemmer W	35001	Kemmer W	35001	Kilpatrick J J	39375	Knapp J G	41630
Jougan E	35352	Kemmer W	39209	Kemmer W	39209	Kimbrough E A	36014	Knapp O	38379
Jougan E	35353	Kemper H E	37976	Kemper H E	37976	Kimmins D E	38966	Knapp R	34250
Jougan E	35354	Kempf N W	39710	Kempf N W	39710	Kindshoven J	35056	Knapp W C	36991
Jougan E	35355	Kenaga E E	38238	Kenaga E E	38238	King B	34962	Knaus K	41221
Jouhannaud G	39032	Kenda W	40934	Kenda W	40934	King C	34103	Knäzev K	38048
Joyner J F	34777	Kendall K A	37875	Kendall K A	37875	King G E	40403	Knight K L	38686
Judd W W	38462	Kendall R G	36024	Kendall R G	36024	King G H	41934	Knight L	35995
Judkins W P	35140	Kendall R G	36024	Kendall R G	36024	King G S	40177		
Judkins W P	41318	Kenealy J	35358	Kenealy J	35358	King H C	39891		
		Kenedi P	40682	Kenedi P	40682	King J O L	39840		
						King N	39996		
						King N J	39128		



Item	Item	Item	Item	Item	Item
Knight S G 39997	Konstantinov 36515	Krechetovich L M 34313	Kvaal L 39249	Lange K J de 35364	
Knight W H 39082	A R	Kreipe H 36751	Kvapil' A I 37439	Lange P 36590	
Knight W H 39373	Kooij L W 36646	Kreiser R F 35518	Kvirikashvili 35197	Langenegger R 39564	
Knobloch I W 34310	Koopman C 33997	Krettlow K W 33974	Z I 34699	Langfield A 39495	
Knodt C B 37144	Koopman C 34697	Krell J 34699	Kwong K H 34969	Langfield A W 39509	
Knoepfler N B 40737	Kopaczewski W 40866	Kremkus 39133	Kyodai Nogaku 41935	Langfield A W 39609	
Knoll 34864	Kopetz L M 40738	Krenzin R E 38058	Bu	Langfield A W 39610	
Knoll J 40089	Kopp 36394	Krewson C F 34574	Laake E W 38622	Langfitt M 35917	
Knorr L C 34204	Köppen A von 36634	Kriebe M 39244	Laan E van der 35004	Lankford L T 40816	
Knorr L C 34205	Kordecki R 37398	Kriebe M 39245	Laas D 39720	Lansade M 34181	
Knowles T 37809	Korenenko E 39155	Kriebe M 39246	Labanda Egido P 36993	Lantbrukskemiska Kontrollstationen Jönköping 41936	
Knowles T 37809	Korjakina A F 39130	Krieger K 41052	Labet M 39794	Lantelmé W 38531	
Knowlton G F 38446	Korkman N 36702	Krishnamurthi S 34481	Lablanchy A 39316	Lantz E M 41801	
Knowlton G F 38528	Korolev M 39998	Krishnaswami A 36852	La Bonte R H 40406	Lapedagne H 35061	
Knowlton G F 38760	Korol'kov A 37538	Kriss A E 35771	La Borde F de 36753	Lapedagne H 35062	
Knowlton G F 38761	Koropov V M 36851	Kristjanson B H 41710	Labriego C 36416	Laperouse R M 40968	
Knowlton G F 38762	Kortmann-Fels E 35002	Krone R 40739	Lacey J J 40627	LaPlante A A 34009	
Knowlton G F 38780	Kosanke R M 33731	Kronebach A 33999	Lacey P M C 36619	La Plata Universidad Nacional 35078	
Knowlton G F 38824	Kosch W 36881	Kronenberg H G 35059	Lachman W H 35521		
Knowlton G F 38970	Koshal R S 34698	Krotov A S 34700	Lackner H 40740		
Knowlton G F 38924	Kosin I L 37810	Kruff P de 41840	LaCoste R 37412		
Knowlton G F 38925	Koski V M 34583	Kruijk P A 35196	Lacour L 38382		
Knowlton G F 38967	Kosmack K 39131	Kruijk P A 40366	La Cour L F 34484		
Knowlton G F 38967	Kosmack K 39314	Kruk H 39936	Lacouture 40629		
Knowlton G F 38968	Kosmen S 39717	Krukovsky V N 38074	Acosta E 40944		
Knudson J K 40624	Kostermans D 35689	Kruse B H 39315	Lacroix J 40944	Laporte L 38242	
Knudson J K 40625	Kostjakov A N 36096	Krüsmann G 35141	Lafite 35915	Laporte L 38764	
Knoll D J 38763	Kostfuchenko 34779	Kübel F 41222	Lafon M 39747	Laporte L 38765	
Knuti L L 41553	A D	Kubiczek H 38621	Lafourcade S 39747	Lapshin A 40685	
Koblitsky L 38186	Köstlin A 39185	Kübitz 37212	Läg J 35802	Laptev F 40680	
Kobrin B 35058	Kotilainen M J 33732	Kubitz H 36853	Lagaude H 35916		
Koch E C 34051	Kotilainen M J 33835	Kuchar K W 34482	Lagos U J A 37700	Larionov G 39249	
Koch J 39716	Kotilainen M J 33836	Kuchar K W 34483	Laguarigue L de 40945	La Rotonda C 39721	
Koch W 36849	Kotilainen M J 33837	Kucyniak J 33896	Lagutinskaja N S 40415	Larrea A 35198	
Koch W 37210	Kotilainen M J 41882	Kuffeler J P de 36029	Lahoz V 37701	Larsen P 34486	
Koch W 39129	Kotte W 33998	B van 36029	Lahtinen L 37485	Larson B L 39449	
Kock H de 37911	Kotte W 39210	Kuffeler J P de 36029	Laidlaw F F 38969	Larson B L 39843	
Kodras R 37621	Köttgen 39107	Kugler H L 39198	Lain M 39400	Larson W H 36499	
Koegel A O 36850	Kotthoff P 34234	Lal G B 41800	Lalanne M 39394	Larthe R 39108	
Koehler B 33965	Kottsieper 39494	Lalanne M 39394	Lalloy M 36030	LaRue C D 34487	
Koehler B 34652	Kovalenko N A 38049	Lalloy M 36030	LaMarche V H 38992	Larue P 36754	
Koehler B 34727	Kovalév E 41439	Lamardelle P 34314	Lamardelle P 34314	Larzelere H E 40817	
Koelle G 38529	Kovda V A 35801	Lamarre L 37496	Lamb C A 34701	Lasley J F 36994	
Koenig P 38529	Kozhevnikov E V 37539	Lamb C A 34702	Lamb G N 36684	Lassau L 40741	
Koenigs F F R 35800	Koziner A B 38050	Lamb J 34083	Lamb J 34104	Lasschuit J A 36443	
Koerver C 40405	Kozlov A 39243	Lamb J 34105	Lamb J C 40785	Lasseter D B 41053	
Koger M 36992	Kozo-Poljanskij B M 34311	Lamb J 34105	Lambert E B 36136	Latham B 36532	
Kögl F 34479	Kraevoi I M 39132	Lamb J 34105	Lambooy B 41711	Lathrop E C 39478	
Kohlmeyer J B 41554	Kragtwijk C 35361	Lamb J 34105	Lambou M G 40734	Lathrop W H 35834	
Kohls G M 38486	Krall J L 38530	Lamb J 34105	Lamego A 41555	Lattin G de 38971	
Kohls R L 39563	Kramarenko K S 39718	Lamb J 34105	LaMothe G E 36549	Lauber B 34865	
Köhne 39154	Kramer A J 40683	Lamb J 34105	Lamour R 34206	Laude H M 34866	
Kohout F Jr 37211	Kramer P J 35914	Lamb J 34105	Lamprecht H 34379	Lauderdale R W 38628	
Kohr L A 39892	Kranefuss 38380	Lamb J 34105	Lamprecht H 34380	Lauer W 38383	
Kolesnev S 41322	Kranicz F N G 39156	Lamb J 34105	Lancefield S 40684	Laughton D B 41118	
Kollmann F 36207	Kranz 35193	Lamb J 34105	Landfeld R 40407	Laumonier R 35005	
Kolobov G 37622	Krasnokutskaja S V 35194	Lamb J 34105	Landi R 41883		
Kolishorn A M 39614	Krasnokutskaja S V 39719	Lamb J 34105	Landis B Y 41489		
Koltermann 34480	Krasovskaja I V 34312	Lamb J 34105	Lando J C 39977		
Kolyshev P P 40897	Kraus E J 35362	Lamb J 34105	Landrock A H 39448		
Komarov A 37698	Kraus E J 35363	Lamb J 34105	Lane J 38623		
Kon S K 41798	Kraus J 36651	Lamb J 34105	Lang A L 34727		
Konde W N 37378	Kraus J 41631	Lamb J 34105	Lang F 35060		
Kondo I N 35192	Krausche K K 38241	Lamb J 34105	Lang K 41791		
Kondrashevskij I F 37278	Krause D 37363	Lamb J 34105	Lang L 40946		
Konecky M S 38746	Krause D 37379	Lamb J 34105	Langdon Gonzalez T 41224		
König 39242	Krause D 37401	Lamb J 34105			
König K 37308	Krause W 38811	Lamb J 34105			
Konopleva E P 40024	Krauss W E 41799	Lamb J 34105			
Konovalev I N 34309	Krausz N G P 38991	Lamb J 34105			
	Kravchenko V A 35195	Lamb J 34105			



Item	Item	Item	Item	Item
Lawhorn R K 40000	Lemos O R 34707	Li L Y 34317	Little J E 33731	Lorenz O A 35925
Lawless E J Jr 40818	Lemos O R 40471	Li L Y 34959	Little S Jr 36396	Lorito F 34321
Lawless J S 40409	Lempke B J 38872	Li L Y 35102	Littlefield J J 35370	Los Angeles County Cal- ifornia Live- stock Dept 40696
Lawlis J F Jr 33736	Lengemann F W 37132	Li L Y 35674	Littlefield J J 35921	
Lawrence F P 35918	Lennox F 41403	Li L Y 36441	Littlefield L 35523	
Laws P 36097	Lenshin S 37977	Li L Y 38572	Litzenberger S C 34381	Lösche A 40000
Lawson J 37912	Lent F B 39958	Lifapin A 41121	Litzenberger S C 35931	Loschke J 41228
Laycock G 41076	Leon Ortega M 38245	Lifaskovskafa fu 40606	Liu S T 34969	Łosiński T 38091
Layton K 34108	Léonard J 33841	Liberali J P 37933	Livet L 37624	Lötz J v Z 37917
Lazar M E 39592	Leonhardt H 37214	Libkind A 41325	Livingston A M 38626	Lou T C 34292
Lea P 40493	Leonhardt H 37498	Lichtman J Z 40868	Livingston C J 36922	Loui D 41122
Leadley T 41499	Leonhardt H 38090	Liebe E 37103	Livingston J E 34112	Lourd J 34786
Lear B 36137	Leonovich V V 36755	Lieberman F V 38529	Livingston K E 35371	Loustalot A J 34496
Le Bars H 39836	Lepeshkin V I 37438	Lieberman F V 38762	Livry P 39081	Loustalot A J 35636
LeBeau O R 41632	Lépez R E 39722	Liebermann J 38926	Lizarralde O P 38250	Loustalot A J 35642
Lebedev D S 39859	Lepidl J 36160	Liebscher W 36756	Lou A J 35068	Louviere W H 40968
Lebedinski N A 37982	Lepidl J 40262	Liebster 34002	Llewellyn M 37426	Lou A J 34183
Lebeuf J 41393	Lepilkkin A 40576	Liebster 35065	Lloyd J R 34821	Louwes H D 41229
Lechanteur F 38532	Leppik E 38385	Liebster 35066	Lloyd R L 40001	Louwes H J 41633
Lecky T P 36995	Lera de Isla A 35006	Liebster 35143	Lloyd-Thomas W 37583	Love R M 34322
Leclerc M 39795	Leraillez L 39796	Liebster 35201	Lo H K 37216	Love R M 34970
Leclère A 36533	Lerner I M 37581	Liebster 40338	Lock A P 40819	Lovell H B 34323
Lecomte J 40742	Le Roi D 36997	Lienard U G 36305	Lockard C R 36375	Lovelock B 35372
Leconier A 34490	Le Roux M S 35200	Liendo Coll P 39468	Lockwood M H 36176	Lovering F W 35637
Ledesma N R 35365	Leroy J F 34315	Liendo Coll P 41760	Lockwood S 34003	Lowe D 35007
Ledesma N R 35366	Leroy R 36417	Liendo Coll P 41761	Lockwood W S 40869	Lowe J M 41557
Ledingham R J 34153	Lery G 38052	Lier F G 34318	Lods E A 40899	Lowe L T 36757
Lee C E 35367	Lesage J 35919	Liersch J E 36331	Loenen J van 41006	Lowrie A W 41634
Lee F A 40409	Lesboursies G 37884	Liese 34107	Loera Borja A 36418	Lowry R K 37413
Lee M R 38539	Leslie J B 38688	Lievens F 37310	Loetsch 36306	Lowther C V 33912
Lee W D 41337	Leslie W R 35064	Lievens F 37311	Loeven W A 34319	Loy H W Jr 39450
Leeper P W 35530	Lesnikov G 37463	Lighthart J 35369	Loewel E L 34113	Loy L G van 39157
Lees H 35722	Lesperance R 34868	Liguori F 38249	Loewel E L 35144	Loza V M 39844
Leet G 41225	Lessel 36395	Lijsten R 35067	Löffler H D 36291	Lubienlecka-von 39612
Lefaux R 39537	Lester J 38246	Liljestrand P H 41567	Lofgreen G P 37107	Luca F de 41007
Lefebvre L 40196	Lester J 39318	Lillard J H 35999	Löfken 36591	Lucas A 37521
Lefèvre A 41119	Letessier A 36629	Lilleland O 35151	Lofthus J L 41556	Lucas Moran B 38092
Lefors A O 36281	Letrange J 39894	Lima A D F 34182	Logan H E 35484	Luchini R 41230
Legantsev M I 35368	Leuker R W 33971	Lima A da C 38534	Lognova N V 37978	Lucie-Smith 35103
Le Garrec 35142	Leumer A 34869	Lima F O 38669	Loh S Y 38627	Luckett E J R 35922
Legates J E 36936	Levantin D L 37105	Liming O N 34108	Lohwag K 35524	Luckie J N 40004
Leghis L M 35522	Levantin D L 37106	Linde S B von 41712	Lojdina G I 34218	Ludvik G F 38689
Legros N 38241	Leveque P F 34780	Lindell G 40352	Lojko A F 37982	Lühmann M 37584
Le Guen A 39829	Levi M 37914	Lindgren I 37582	Løken A 38812	Lukkala O J 35835
Le Guenn P Y 37811	Levine M 34316	Lindström D E 39565	Lombard P 34781	Lum E A 35693
Lehman D J 36099	Levine M 34491	Lindström K B 36282	Lombard T A 35996	Lund A 39725
Lehman S G 34106	Levine P P 37702	Line Elevators 35930	Lombardo R A 37042	Lund R F 35836
Lehmann E 40491	Levinson B D 38624	Farm Serv 33916	Lommason R C 40002	Lundblad A B 37336
Lehmann W A 35733	Levitan M 39251	Ling L 34109	Lomunov A 36419	Lundie A E 38393
Lehnart A 38384	Levitski I 38386	Linja-aho M 34708	Loncar I 40336	Lundström F O 35860
Lehrer W P Jr 38051	Levitt F 38387	Linja-aho M 34709	Longchamp R 34493	Lundström T 39186
Lehrer W P Jr 38061	Levitt J 34492	Linja-aho M 41918	Longchamp R 34494	Lunel F A V 36461
Lehtonen J 33838	Levy C W 38387	Linn A 40157	Loo B L 34969	Lupiani R 39406
Lehtonen K 33839	Levy E B 41324	Linn M B 34110	Loomis A R 39950	Luplino P 41054
Leib E 34001	Lewis A H 39538	Linnon G 37215	Loon J van 36646	Lupton F R 36031
Leib E 35063	Lewis C A 34901	Linskens H F 34111	Loos C A 35692	Lüscher M 38970
Leib E 38533	Lewis C F 40204	Linsley C M 35920	Loos C A 35715	Lush J L 36698
Leibfried E 41077	Lewis D J 38625	Linsley E G 38151	Loose 35069	Lush J L 36701
Leibfried E 41226	Lewis E W Jr 37623	Linsley E G 38809	Loosli J K 36731	Lusiardo M J 37042
Leiboff R O 34703	Lewis H J 40439	Linton R D 34207	Loosli J K 37107	Lustig E 36333
Leiboff R O 34704	Lewis J C 41120	Lipis B V 39723	Loosli J K 37426	Luther H 33942
Leiboff R O 34705	Lewis J H 41078	Lippold U 40532	Loosli J K 38031	Luther H 33917
Leiboff R O 34706	Lewis J M 34985	Lipovtsev I P 37499	Loosli J K 38032	Lutikov I 34952
Leicester Sheep Breeders' Asso- ciation 37913	Lewis R A 38247	Lipshits S I U 41885	Loosli J K 38072	Lütt O 39211
Leider M 38451	Leydolph W 36993	Lisina A I 40521	Lopatecki L E 34495	Luttrell E S 34004
Leighton R F 37309	Leyva A M 36593	Lissner T 38993	Lopez Arias A 37916	Lutz J A Jr 35923
Leighton R L 36855	Lezama Michel R 36252	Lissner T 41440	Lopez Gil A L 41770	Lutz R 40179
Leinbach L R 40287	Lhoste J 38248	Lissner T 41459	Lopyrin A I 37978	Luvisi G 35641
Leinbach L R 40287	Lhuillier J 41227	Lissner T 41886	Loqual A 36670	Luz Filho F 41635
Lekarev V M 37492	Li C S 35691	List G M 37915	Lord R F 41388	Lyerly P J 37063
Lelong R 39937	Li C S 36441	Litovchenko G R 36999		Lyle C 38251
Lelong R 39937	Li H L 33778			
Lemberg B 33840	Li L Y 34284			



Item	Item	Item	Item	Item
Lyle O 40947	McElvare R R 38874	McVickar M H 36161	Maltais J B 38766	Marsal J 41126
Lyle P 40948	McElvare R R 41887	McVickar M H 41327	Malterre J 37069	Marsden D H 34007
Lyman F E 38664	MacEwan A M 34498	MacWalter R J 40008	Malushko V 39846	Marsden S J 37587
Lynch E E 38690	MacEwan J W G 37312	McWhorter F P 34005	Malyshev I V 39085	Marsden S J 40785
Lynch P B 34871	McFadzean H G 37313	McWhorter F P 34209	Mamaev P 41125	Marsh R W 34117
Lynn C J 37000	McFarlane P 37918	McWilliams A L 39959	Mamina V V 37982	Marsh S S Jr 38692
Lyons R H 36577	McGee W R 37464	Maddock H M 38063	Man T J de 37110	Marshall H B 36636
Lysebråte K 39252	McGee W R 37489	Madore M R B 34252	Man T J de 39613	Marshall H C 37383
	McGee W R 37501	Madrid Serv 41820	Manary G L 36558	Marshall M E 37705
	McGinnis J 37626	Agropecuário 35151	Mancini F 35928	Marshall M L 35379
McAllister D R 34382	McGinnis J 37734	Madsen H A 38253	Manetti C 41233	Marshall R E 40341
McAlpin D M 35603	McGinty T 40432	Madsen H F 38438	Mangelsdorf P C 34711	Marshall R M 35774
McArdle A A 39067	McGlamery J B 40340	Madsen H F 34533	Mangold E 36759	Marshall S P 37160
McAuliffe H D 40005	McGregor E A 38464	Maeda K 35751	Manil P 35773	Marshall S P 37245
McBee M 41762	McGregor J A 37902	Maercke D van 38535	Manitoba Milk Control Board 39896	Marshall W 34614
MacBride J 39169	McGugin F W 39726	Maercks H 40494	Manjrekar S L 37979	Marteanu G 39740
MacBride O C 41876	McHardy J L 37919	Maes E 40182	Manley F H 36856	Marti L 36334
McCall B 41123	McHardy W M 38487	Mafera F 40183	Mann C E T 35694	Martilli M 41641
McCalla A G 34634	McHenry S 37703	Maffre S 37385	Mann D H 34875	Martin 38250
McCallum R D 34238	McHenry S 39319	Magalhães A P 37414	Mann D H 36036	Martin F 39729
Macalpine R I 35924	McHenry S L 37813	Magell E 35527	Manning F J 38390	Martin F 40951
McCampbell F H 39895	Macher F 36601	Magill A 35376	Mansbridge W 38876	Martin J 36760
McCann J J 40180	Macherauch O 35145	Magill A 38018	Mansingh B 35929	Martin J 39467
McCarthy D 37001	Machwirth O 39199	Magillano A 37219	Mantelli G B 34712	Martin J P 35930
McCarthy J L 36677	McIntire R O 39105	Magnus H 33918	Mantillaro R 37111	Martin J W 39377
McCarty C S 35373	MacIntire W H 35746	Magnusson A H 37380	Manz B 34953	Martin M 37112
McClain E B 39797	MacIntosh A C 36034	Magrane W G 38691	Manzhos M D 37120	Martin P 34164
McClary C F 37585	McIver J 41905	Magy H I 40796	Mapson L W 40283	Martin P 39566
McClean C M 40006	McIver W L 37814	Mahadevan T D 38409	Maranelli G 10870	Martin W E 35931
McClelland C M 41558	MacKay A I 35997	Mahadevan V 34710	Marañón G 39727	Martin W H 38693
McClelland J E 35750	McKay A W 41638	Mahaicony/Abary Rice Development Scheme 40184	Marcellin R 11119	Martin W H 39975
McClintic C F 35793	McKay A W 41639	Mahal G S 40185	March B 37627	Martin W W 34876
McClymonds A E 36032	McKay D H 41068	Mahal G S 40185	Marchal A 41415	Martin W W 37993
McClymont G L 37625	Mackay R L 41099	Mahal G S 40185	Marchal H 39253	Martin Lomeha E 36858
McColloch C L 40650	McKee R G 36500	Mahal G S 40185	Marchant A 41640	Martinez 40744
McCollum E V 41763	McKeen W E 34114	Mahboob M S 39497	Marchionatto J B 34210	Moreno J M 35529
McCollum W H 37500	MacKellar D G 40391	Maher C 36100	Marchionatto J B 34210	Martini 37815
McCorkle S J 37427	Mackenzie A 37465	Mahmood 41714	Marckworth G D 36397	Marty H 40874
McCormack P H 36620	MacKenzie F 35374	A N M 35926	Marcov E 36647	Marvin V 36037
McCormick C J 41231	McKenzie J P 40874	Mahner A 40495	Marcovitch S 35639	Marx H J 37958
McCormick C J 41636	McKenzie R E 34873	Mahoney C H 39134	Marcus H 37466	Marzocca A 33844
McCormick J C 38994	McKibben G E 34727	Maler E A 39158	Marcus H 38767	Marzorati O 38392
McCornack A A 38435	McKibben G E 34946	Mainardi B 36758	Marcus H 38813	Masani N J 36612
McCowan M C 33736	Mackie M J 40876	Mainardi B 37314	Marcus H 38971	Mascaro L A 37540
McCoy H B 41232	McKinna W R 38093	Mainardi B 37552	Marcuzzi G 34253	Mascaro T 35380
McCoy J E 37217	Mackinney G 34376	Mainardi B 36478	Marec E 39376	Maslenikova E M 37382
McCready C C 34457	Mackintosh J 37108	Maine University Forestry Dept 36560	Mares R G 37220	Mason C T 34118
MacCreary D 38690	Macklin H P 37586	Maine University Forestry Dept 36561	Marescalchi A 40263	Mason F E 41771
McCreery P 37697	McKnight D 36099	Maine University Forestry Dept 36561	Marescalchi C 39728	Massachusetts Feed Control Serv 40093
McCulloch A C 40820	McKnight H T 34874	Maine University Forestry Dept 36561	Marggraff W 38391	Massachusetts Fertilizer Control Serv 36177
McCulloch R 36033	McLane P V 41713	Maine University Forestry Dept 36561	Marichal M 39740	Massachusetts Poultry Disease Control Laboratory 37706
McCullough N B 37218	McLaren C G 36550	Maine University Forestry Dept 36561	Marimpetri L 35838	Masart L 34565
McCullough W B 40577	McLean F T 35526	Maine University Forestry Dept 36561	Marinelli R 40186	Massee A M 41888
McCully W G 35638	McLelland R M M 36904	Maine University Forestry Dept 36561	Mariner P F 40187	Masterman J 38393
MacDaniels L H 35837	McLeod J A Jr 39845	Maine University Forestry Dept 36561	Mar'inskiy A 40009	Masu S 38113
McDermott N 40339	MacLeod R A 33843	Maine University Forestry Dept 36561	Marion 37704	Masur J 41765
McDonald A 41637	McLure J H 40181	Maine University Forestry Dept 36561	Marion G B 37221	Matagrín A 36475
MacDonald D R 37812	McMahon G 41764	Maine University Forestry Dept 36561	Marion H 38877	Matagrín A 40745
McDonald E J 39451	McMeekan G P 41326	Maine University Forestry Dept 36561	Marion P T 35620	Matchett J R 39453
McDonald E J 40949	McMillan D 37003	Maine University Forestry Dept 36561	Maris A 41234	Mathias A F 34042
McDonald F 34872	McMillan W D 37109	Maine University Forestry Dept 36561	Mark F A 36102	Mathias M E 35381
McDonald G 41124	McMillen V 36361	Maine University Forestry Dept 36561	Markham A E 36677	Mathiesen H K 36209
McDonald J E 38252	McMillen W 39472	Maine University Forestry Dept 36561	Markley K S 40717	Mathew A V 41236
McDonald M D 36621	McMinn H E 35375	Maine University Forestry Dept 36561	Markley M C 40092	Matthews P 37816
McDonald 36671	McMinn R G 34251	Maine University Forestry Dept 36561	Marks Mrs J 35378	Matthysse J G 38254
McDonald-Smith S 34208	McMorland P R J 39034	Maine University Forestry Dept 36561	Markus A 34116	Matthysse J G 38466
McDonough E S 34497	McMurray S F 34499	Maine University Forestry Dept 36561	Markus A 35501	Mattison J R 34985
McDougal O J 36095	McNab E G 39339	Maine University Forestry Dept 36561	Marle G S van 34006	
MacDowell L G 40432	McNair M P 39496	Maine University Forestry Dept 36561	Marlow H W 37628	
McDuffie W C 38715	McNulty G 36035	Maine University Forestry Dept 36561	Marotel G 36857	
McDunnough J H 38973	McNulty G 41414	Maine University Forestry Dept 36561	Marples B J 38465	
	Macola P 40091	Maine University Forestry Dept 36561	Marquis R W 36208	
	Macris C G 40007	Maine University Forestry Dept 36561	Marriott P F 34501	
	MacSween R J 41647	Maine University Forestry Dept 36561	Marsais 35203	
	McVickar M H 35925	Maine University Forestry Dept 36561		



	Item		Item		Item		Item		Item
Mattoon H G	35382	Mel'fster A B	39731	Middlekauff W W	38536	Minolts	35998	Mollin F E	40579
Matzke E B	34324	Meltzer J	35469	Middlekauff W W	38980	Minor W A	34880	Mollin F E	40630
Maudru J E	40952	Melville R	35385	Mika L A	36835	Minor W A	34881	Mollin F E	40665
Maughan F B	38255	Melvin A	37415	Mikhailfik I V	35204	Minor W A	34882	Momberg-	37433
Mauldin H	39377	Memphis (Tenn)	40746	Mikhaillova V	35695	Minshall W H	33740	Jorgensen H C	
Maunder A H	41394	Merchants		Mikus F F	35741	Mintchev B	36647	Monceaux R H	41802
Maurer K J	35070	Exchange		Milano V A	33812	Mintchev B	36652	Moncrief J B	34883
Maurer K J	40264	Méndez León C	40747	Milburn W S	37316	Minter P C	38694	Moncrief J B	37143
Mauri N	35071	Mendez M G	37817	Milbury A T	40821	Minut J	39799	Moncrieff R W	39736
Maurizio A	38394	Mendlik F	39732	Miles I E	35948	Mir R M	39734	Moncrieff R W	40190
Maveroff A	39730	Meneghini M,	34212	Miles M A	37999	Mirimanfan V A	34509	Moncrieff R W	40191
Maxon M A	35383	Menezes R B de	41055	Miley D G	38259	Mirri F	35861	Monlux W S	38469
Maxton J L	39498	Menge H	37629	Milford J	41567	Mirzoeva V A	35777	Monnier C	35935
Maxwell N P	35477	Menis J	35531	Milhou J	41079	Mishchenko E	40676	Monot G	34123
Maxwell N P	35530	Menkina R A	35776	Milk Dealers	39820	Mishustin E N	35777	Monsarro F B	34716
Mawson E H	41798	Mensler P H	40748	Association of		Missouri Dept	35777	Monseratt J	39737
May A W S	38256	Menuez C	39863	Metropolitan		of Agriculture	35647	Montaldo A	34124
May A W S	38878	Menzel M Y	34365	New York		Mistric W J Jr	38539	Mont'Alegre O	41240
Mayberry D H	35752	Menzies W	37920	Miller A	39893	Mitchell A E	34011	Montana State	39643
Mayer D T	36859	Merenkov L	39255	Miller C	40822	Mitchell C E	35533	University	
Mayer I D	36023	Mericle L W	33737	Miller C R	40315	Mitchell G H	34242	Bur of Business	
Mayer K	38257	Merish F	39799	Miller E A	40316	Mitchell H H	37100	and Economic	
Mayeux H S	38973	Merish F	41365	Miller E E	40578	Mitchell H H	37225	Research	
Maymone B	36761	Merk G	37006	Miller H F	38260	Mitchell K G	38029	Montell J	33847
Maynard L A	37107	Merlo A	36038	Miller I H Jr	34506	Mitchell L M	37415	Montell J	33848
Maynard L A	38031	Merrill A H	36501	Miller J P	39087	Mitchell M P	40651	Montell J	33849
Maynard L A	38032	Merrill E D	33845	Miller K	34121	Mitchell R L	36685	Montell J	33850
Maynard L A	38074	Merritt J B	33846	Miller K G	39170	Mitchell S B	35386	Montgomery G A	37317
Mazek-Fialla K	36650	Mertz E T	38059	Miller L I	36139	Mitchell W M	36862	Montgomery G A	38128
Mazza S	40282	Mertz E T	38105	Miller L S	38216	Mitrofanov P I	38769	Montgomery	36592
Mazzel	34119	Merzari A H	40749	Miller L W	38537	Mitscherlich	36421	W L	
Patrone I		Mesa-Bernal D	33738	Miller M	37007	Mittelstaedt H	38612	Moody E G	36104
Mazzeno L W Jr	40202	Mesa-Bernal D	34504	Miller M A	34008	Mittmann F	38396	Moody J E	35999
Mead S W	37005	Mesa Bernal D	36307	Miller N C E	39768	Mitton A	37355	Moorahrend	41490
Meade F M	36420	Meschini A	41937	Miller P A	34384	Mix	36422	Moore A C	37709
Meadley G R W	35640	Meschcherin I A	36445	Miller P R	34122	Miyate H	41330	Moore A C	40823
Meadows G B	38039	Messenger T H	40871	Miller P W	34213	Mizell F M	38255	Moore E B	40317
Meadows G B	38042	Messeri A	34326	Miller R C	39614	Mizushima U	34385	Moore I	36000
Medici G	41441	Messierly W T	41642	Miller R C	40189	Mizushima U	34386	Moore L A	37114
Medici G	41715	Metcalf V	34879	Miller R F	36768	Möbus W	34327	Moore L A	37115
Medina G	35933	Metcalfe D S	34505	Miller R F	37631	Mockett J T	41560	Moore M	37818
Medina L J	34713	Medvedev P F	34503	Miller S M	40954	Modena A	35146	Moore M	37819
Medina Blanco	34878	Medvedev P F	34503	Milligan M C	35009	Moder H	39753	Moore N S	41767
M		Mexico Instituto	38758	Mills W D	34009	Modilbowska I	35218	Moore P R	38051
Medler J T	38732	de Biologia		Milne F J	36860	Moegling	35534	Moore P R	38064
Meehan F L	34120	Meyer F O W	41766	Milne P S	38395	Moeller H C	37383	Moore R D	40094
Meeker E W	40953	Meyer K H	39454	Milner M	38538	Moeller S	35535	Moore S	34602
Meer H E van	41716	Meyer K H	39455	Milner R T	39477	Moen O	41328	Moore S A	37587
der		Meyer zu Elsen	35008	Milton W E J	34821	Moffett B W	35011	Moore T	36863
Meerholz F	38487	L		Milwaukee	40629	Moffett B W	39036	Moore W	38153
Meersseman	40188	Meyn A	39847	Stockyards Co		Moffett B W	39897	Moore W	40192
L C		Mezerik A G	41329	Minaev B A	40955	Moffett B W	40900	Morrill C C	37100
Megaw E M	33706	Mezzetti A	34184	Minarik C E	34507	Moffett B W	41238	Morris V I	40966
Mehlisch K	35384	Mezzetti A	34185	Minderhoud A P	41018	Moffett B W	41561	Moradell F	38397
Mehra P N	34325	Mezzetti A	40387	Minderhoud G	41237	Mogilfanskij N K	39735	Morales	40580
Mehrhof N R	37676	Michael B	35682	Mindrum N C	36103	Mohan R	37980	Antequera C	
Mehring A L	36162	Michaux	40750	Mineff P	37921	Mohr W	37210	Morales Pradi-	41479
Meier F	39351	Michaux R M E	40872	Minga A E	34118	Mohr W H	39997	lla P	
Meiklejohn J	35775	Michelbacher	38258	Minguzzi L	35010	Mohteda S N	37708	Morales y	40265
A E		Michelbacher	38468	Minguzzi L	39352	Moir R J	37981	Fralle E	
Meilland F	35441	A E		Minin P I	39035	Moisés A	37008	Morán G	37009
Meinkoth N A	37707	Michelbacher	38879	Minio M	33739	Moghanov A P	35803	Moran R	33851
Mels L	39742	A E		Minio M	34509	Moldavan A	39035	Morand J	36535
Meiser J A	39951	Michelbacher	38880	Miniscalco V	34010	Moldenauer	39898	Morant K M	37384
Meiser J A Jr	40010	Michigan State	41643	Minnen G van	38814	Molfenter W	36703	Morcos Z	37502
Meisner F	34986	Grange		Minnesota	36178	Molfino J F	37113	Moreau C	34125
Meissner F	39254	Michurin I V	34383	Dept of Agri-		Molina J S	35696	Moreau M	34125
Meissner F	39938	Mick A H	35934	culture Dairy		Molina J S	35697	Moreau R	39960
Meites S	37223	Mickevicz M J	39733	and Food		Mollina J S	40749	Moreng R E	37629
Melander A	39499	Micklem T	40444	Minnesota Dept	41842	Mollina J S	40751	Moreng R E	37710
Melden R L	40314	Micks D W	38467	of Agriculture		Moll F	36254	Moretini A	35105
Melfukov A N	37133	Viddelkoop A P	37199	Dairy and Food		Moller Arnold E	36308	Morey D	34387
Mell R	38152	Middelkoop A P	37224	Minnesota Off	36292	F	34971	Morgan C L	37674
Mellor F C	34211	Middlekauff W W	38258	of Iron Range		Moller Bordeu	41239	Morgan W L	38261
Mel'nikov L	41559	Middlekauff W W	38469	Resources and				Morin G	37385
Mel'nikov N I	40496			Rehabilitation				Morini M	41442



Item	Item	Item	Item	Item	Item	Item
Moritz F L 34884	Mukherjee R 37225	Naegele J A 38466	National Re- 35804	Netherlands 34012		
Morley F H W 37922	Mulder D 34510	Nagel O 33852	search Council	Plantenziek- 35392		
Morozov D 41127	Mulgrue J 41717	Naghski J 34574	Highway Re- 35205	tenkundige 36586		
Morozov G 36039	Mullay J H 33891	Nájera L E 38631	search Board 34513	Dienst 41480		
Morozov I A I 38126	Müller E 33922	Nalder W H 36041	National Shade 36446	Neto J C M 41719		
Morris D S 38881	Müller E 38399	Nance J F 34512	Tree Confer- 35205	Nettles W C 36586		
Morris G F 37467	Müller F 38263	Napalkov S 36042	ence 34513	Neuberger R L 41480		
Morris H F 35958	Müller H 33908	Narasimham 41034	Naumenko N P 36446	Neuberger R L 41481		
Morris J J 34885	Müller H 34201	N V A 37885	Naundorf G 34513	Neudecker J 35013		
Morrison B Y 35387	Müller H 35629	Narayan N S S 37885	Navarro 36446	Neukomm W 41331		
Morrison C J 34972	Müller H 41803	Narayana N 35753	Garnica M 39043	Neumann J 40267		
Morrison F B 38054	Muller H J 39039	Narayana N 35937	Navellier E 34514	Neumann H 38264		
Morrison G 35536	Müller H L 34886	Nardo G de 36255	Naylor A W 34514	Neumann J 34489		
Morrison G 35537	Müller H L 38770	Nardy R V 38442	Naylor A W 34515	Nevada Dept 41844		
Morrison H E 38628	Müller K 34887	Nash F M 40827	Nayudu K S 41416	of Agriculture 37118		
Morrow M G 35538	Müller L A 41123	Nash R W 35399	Nazarenko L I 36502	Nevens W B 37118		
Morse R E 39615	Müller L F 37503	Nash-Wortham 40386	Nazarevskij S I 35393	Nevzorov G A 37923		
Mortensen H 40824	Müller M 36865	J R H 39419	Nazarov A 39257	Nevzorov G A 41332		
Mortenson W P 39473	Müller R 40607	Nason A 34587	Nazarov S 34782	New England 41019		
Mortenson W P 40825	Müller R H 36423	Nason A 34588	Neal M C 34328	Research 38697		
Mortenson E W 38695	Müller-Stoll 37967	Nast K 34973	Neal N P 34531	Council on 38697		
Mortenson E W 38713	Müller-Stoll 34126	National-Amerl- 39419	Nealby K W 41938	Marketing and 38697		
Mortier J C 35388	W R 33741	can Wholesale 39419	Neave R M S 37227	Food Supply 38697		
M de 38654	Mulligan B O 35390	Grocers Asso- 39419	Nebesky E A 40289	New Jersey 38697		
Morton F A 39833	Mullin R S 34127	ciation 41768	Nebraska Uni- 39258	Mosquito 38697		
Morton R K 39833	Mullins L 40873	National Asso- 41768	Nebraska Uni- 39258	Extermination 38697		
Mory P 38398	Mullins T 41117	cation of 41768	Dept of Agri- 39258	Association 38697		
Mos D de 35147	Mullner F U S 41443	Margarine 41768	Dept of Agri- 39258	New Mexico 40097		
Moschette D S 41762	Munde 39256	Manufactures 41768	Dept of Agri- 39258	Feed and Fer- 40097		
Moscow 38262	Mundell E L 38094	National Asso- 40631	Dept of Agri- 39258	Fertilizer Control 40097		
Stantsifa 38262	Mundt W 37727	cation of Re- 40631	Dept of Agri- 39258	Off 40097		
Zashchity 38262	Munoz Venegas 36462	tail Grocers of 40631	Dept of Agri- 39258	New South Wales 34094		
Rastenii 38262	Munro J A 38852	the United 40631	Dept of Agri- 39258	Dept of Agricul- 34094		
Moser F 38629	Munro S S 37588	States 41703	Dept of Agri- 39258	ture 34094		
Moser M 33921	Munroe E G 38882	National Board 41703	Dept of Agri- 39258	Dept of Agricul- 34094		
Moser W 35012	Munroe E G 38882	of Fur Farm 41703	Dept of Agri- 39258	ture 34094		
Moses H E 36864	Munshi K M 41241	Organizations 41703	Dept of Agri- 39258	Dept of Agricul- 34094		
Moshkina A I 37010	Munz P A 33742	National Broad- 41562	Dept of Agri- 39258	ture 34094		
Mosfashvili G I 39738	Münzberg H 38893	casting Co 41562	Dept of Agri- 39258	Dept of Agricul- 34094		
Moskey H E 40095	Murashchenko N 41456	National Cactus 35391	Dept of Agri- 39258	ture 34094		
Mösle J 40011	Murayama T 40193	and Succulent 35391	Dept of Agri- 39258	Dept of Agricul- 34094		
Mostajo J A 35693	Murbach R 38517	Society (Gt Brit) 35391	Dept of Agri- 39258	ture 34094		
Mote D C 38628	Murphree L C 38251	National Can- 39617	Dept of Agri- 39258	Dept of Agricul- 34094		
Mote D C 38643	Murphy E 35523	ners Associa- 39617	Dept of Agri- 39258	ture 34094		
Mott W P Jr 35389	Murphy J B 37159	tion 39617	Dept of Agri- 39258	Dept of Agricul- 34094		
Moure J S 38815	Murphy J M 40410	Nationaal Co- 40499	Dept of Agri- 39258	ture 34094		
Moure J S 38816	Murray D B 34511	mité voor 40499	Dept of Agri- 39258	Dept of Agricul- 34094		
Moure J S 38817	Murray W G 41472	Brouwerst 40499	Dept of Agri- 39258	ture 34094		
Moure J S 38818	Murty G N 37226	National Com- 39800	Dept of Agri- 39258	Dept of Agricul- 34094		
Moure J S 38819	Mushroom Re- 35539	mittee on Boys 39800	Dept of Agri- 39258	ture 34094		
Moure J S 38820	search Asso- 35539	and Girls Club 39800	Dept of Agri- 39258	Dept of Agricul- 34094		
Moustgaard J 38047	ciation 35539	Work 39800	Dept of Agri- 39258	ture 34094		
Movsisfanfs A P 36762	Musil A 36293	National Dairy 39420	Dept of Agri- 39258	Dept of Agricul- 34094		
Movsisfanfs A P 40096	Mutch B C 37548	Products 39420	Dept of Agri- 39258	ture 34094		
Mowery A S 39073	Mutti U 35936	Corporation 39420	Dept of Agri- 39258	Dept of Agricul- 34094		
Mowery A S 39200	Muttoo R N 38400	National Farm 39500	Dept of Agri- 39258	ture 34094		
Moxon A L 36763	Muzik T J 34496	Radio Forum 39501	Dept of Agri- 39258	Dept of Agricul- 34094		
Moysey E 39179	Muzik T J 35641	National Farm 41243	Dept of Agri- 39258	ture 34094		
Mozambique Re- 39648	Muzik T J 35642	Radio Forum 41243	Dept of Agri- 39258	Dept of Agricul- 34094		
partição Téc- 39648	Muzzati G 38401	National Forest 36256	Dept of Agri- 39258	ture 34094		
nica de Esta- 39648	Myburgh A C 38630	Reservation 36256	Dept of Agri- 39258	Dept of Agricul- 34094		
tistica 39648	Myers J 34429	Commission 36256	Dept of Agri- 39258	ture 34094		
Mrak E M 39616	Myers J 34523	National Joint 35938	Dept of Agri- 39258	Dept of Agricul- 34094		
Mrkos H 34380	Myers W I 41242	Committee on 35938	Dept of Agri- 39258	ture 34094		
Mücke D 40003	Myers W M 34928	Fertilizer 35938	Dept of Agri- 39258	Dept of Agricul- 34094		
Mudaltar A P 41644	Mysore Agri- 41843	Application 35938	Dept of Agri- 39258	ture 34094		
Muermann E 41500	cultural Dept 41843	National Market 39040	Dept of Agri- 39258	Dept of Agricul- 34094		
Muggli J 39940	39940	Reports 39040	Dept of Agri- 39258	ture 34094		
Muijzenberg 39037	Naas O 36040	National Re- 41904	Dept of Agri- 39258	ture 34094		
E W B van den 39037	Nabours R K 38927	search 41904	Dept of Agri- 39258	ture 34094		
Muijzenberg 39038	Nachtigal G E 34743	Council 41904	Dept of Agri- 39258	ture 34094		
E W B van den 39038	Nacrur J 38636	Food and Nu- 41904	Dept of Agri- 39258	ture 34094		
Muijzenberg 39353	Naden K D 40826	trition Board 41904	Dept of Agri- 39258	ture 34094		
E W B van den 39353		Committee on 41904	Dept of Agri- 39258	ture 34094		
Muirhead Thom- 38696		Cereals 41904	Dept of Agri- 39258	ture 34094		
son R C 38696			Dept of Agri- 39258	ture 34094		



Item	Item	Item	Item	Item
New South Wales 38470	Nippert F 37387	Norton H C 37959	Oklahoma Dept of Commission-ers of The Land Off 41333	Orud I 34941
Dept of Agriculture 38470	Nishida T 38632	Norway Stats-konsulentkon-toret for Husdyrbruk 37319	Osborne D J 34520	Osgood O T 41460
Entomological Br 40928	Nissen-Drejer R 41805	Nose R 33745	O'Shea A P 41721	Osinga L 40319
New South Wales Egg Marketing Board 40318	Nissley C H 35541	Nottingham Uni-versity School of Agriculture 41396	Oksnes O 41328	Osipova O P 34589
New York and New England Apple Institute 35014	Niswander R E 38771	Dept of Agri-cultural Eco-nomics 41397	Olafson G 41919	Oslikovskaja E 41566
New York (City) Public Library 41360	Nitrate Corpora-tion of Chile 35015	Nottingham Uni-versity School of Agri-culture 41397	Olberg A 36309	Osman W H 37821
New York State College of Agri-culture 39802	Niukkanen V 40012	Dept of Agri-cultural Eco-nomics 41244	Olcese O 37607	Osmolovskaja M 40642
New Zealand Dairy Board 38402	Nixon H L 34183	Nova Scotia 41647	Olcese O 37608	Ospina Leon A 37013
New Zealand Dept of Agri-culture 38402	Nixon W A 36335	Dept of Agri-culture and Marketing 41647	Olcott H S 39620	Ossa R 41246
Horticulture Div 37924	Nixon W M 34889	Nourse E G 41244	Oleck S M 40911	Ostashevskii A G 38171
New Zealand Romney Marsh Sheep Breeders' Association 40990	Nizel A E 35794	Nova Scotia 41647	Olerich E 41081	Ostbo E 35397
New Zealand Tobacco Board 38403	Nižnanský F 36866	Dept of Agri-culture and Marketing 41647	Oliva A 35943	Ostergaard J 36310
Newald E 38403	Noble I 40289	Novak A F 41807	Olive J P 36765	O'Sullivan P J 37240
Newald E 38404	Nobuto K 37523	Novikov V A 34518	Oliver P A 36063	Osvald H 34635
Newberne P M 37431	Nogueira-Neto P 35699	Novogrudskii D M 35779	Oliveros S B 41811	Otte F Jr 41082
Newberne P M 37435	Nohe E 34890	Novogrudskii D M 35780	Olivier L 36041	Otten E 37383
Newcomer E H 34329	Nohe E 39159	Novosel'tsev D V 38055	Olivkov B M 36869	Ottke R C 34590
Newell C B 34718	Nolan F L 35394	Nowak A 36593	Ollendorff A 36259	Ottoson C O 41101
Newell P F 40581	Noland P R 38054	Noyes H 39340	Oloufa B M 36859	Ottoson L 41129
Newhall A G 38638	Nold T 40367	Nubourgh Y 35396	Olson B F 40411	Ouellet A 36704
Newhook J C 37011	Noll D O 38019	Nugent T J 34131	Olsen H A 34720	Oulié P 35546
Newman H J 37738	Nolte H W 38633	Nuñez Andrade R 38471	Olsen M W 37920	Ousdal A P 33746
Newton G K 34130	Nominé H 39900	Nutman P S 35755	Olson D 37589	Outram E H C 40195
Newton R W B 34447	Nominé H 41720	Nyberg W 33924	Olson E A 39041	Ovadia J 34992
Newton W 34495	Nooder H J 38095	Nyce S L 34017	Olson E O 34132	Ovcharov K E 34572
Niblett M 38154	Nook M A 37518	Obata Y 38113	Olson E O 34133	Ovchinnikov M A 37925
Nicaise A 38405	Nord F F 36686	Oberhagemann 35543	Olson H C 40013	Overbeke M van 40196
Nice G R 40608	Nordlinger E W 40290	O'Berle G D 35209	Olson L C 35944	Overby E J 41247
Nice G R 40609	Nordquist A 40705	O'Brien C H 40957	Olson N O 37714	Overcash J P 35148
Nichols J 37386	Nordsiek F W 39618	O'Brien H R 39320	Olson P J 34519	Overcash J P 35149
Nichols J P 38255	Norén B 35778	Obst K 39259	Olson R L 40412	Overcash J P 35945
Nichols M 41563	Norges Land-bruksøkon-omiske Institutt 41395	Odell J G 40829	Olson R L 41564	Overell B T 34570
Nicholson G E 34719	Norman L W 40923	Odinefs R N 37974	Olsson G 34938	Owen C 38000
Nicholson H 40956	Norris L C 36768	Odland M L 35544	Omgang S O F 33855	Owen E M 39042
Nickell L G 34214	Norris L C 37630	O'Donnell C A 33851	Omps A R 35016	Owen W L 40958
Nickisch K 36759	Norris M J 38928	O'Donnell C 40194	Omura H 38942	Owen W L 40959
Nicol G 37713	Norris R C 37631	Odynefs R N 38056	Oncken W 38406	Owens 36179
Nicolchev K 36647	North A D 38119	Oechslin M 36258	O'Neal R 39742	Owens H S 40972
Niel L N 38770	North A D 38129	Oelmann 39321	Onegov A P 37504	Owens O v H 34451
Niel L N 38782	North C 35542	Oertzen H U von 37468	O'Neill W J 38269	Owens O v H 34583
Nielsen A R 39899	North Central Technical Com-mittee on Entomology 38884	Oers van 37320	Onishchenko A I 35545	Owens R G 36139
Nielsen P C 33741	North Dakota Livestock Sani-tary Board 36867	Oertzen H U von 37468	Onsem J G van 34091	Owens R G 36139
Niesner W 41646	North Dakota State Hall Insurance Dept 41080	O'Farrell S 41417	Onsem J G van 34428	Ownbey G B 34330
Niesslein E 36257	North-West 39530	Off Algérien d'Action Eco-nomique et Touristique (OFALAC) 39422	Oosten A van 35072	Owtram I H 40687
Nieuwenhuijzen G 36923	Line Elevators Association 39530	Off International d'Hygiène Pub-lique 38472	Oosting H J 34254	Ozerov G V 34521
Nigeria Oil Palm Pro-duce Market-ing Board 40752	Northcote K H 35805	Ogden M L 35544	Optiz K 35106	Ozerova G N 37974
Nikitenko G F 34516	Norcraft R D 34517	O'Donnell C A 33851	Opsahl W 36260	Ozerskii A 39260
Nikitin A 36554	Northern Ireland Ministry of Agriculture 39644	O'Donnell C 40194	Opsal A 41444	Paardekooper M 40357
Nikitin V N 37982	Ministry of Agriculture 39644	Odynefs R N 38056	Opstal W J 34235	Paardekooper M 40413
Niklas 38266	Northern Rhodesia Dept of Veterinary Serv 36863	Oelmann 39321	Orbaan J G 41008	Paas C H 40320
Niklas 38267	Northwest Bulb Growers Associ-ation 35395	Oers van 37320	Orchard H E 35643	Paauf F van der 35946
Niklas 39421	Northwestern University 40874	Oertzen H U von 37468	Orcutt E P 37960	Pacheco H 34493
Niklas W 37318	University 40874	O'Farrell S 41417	Ordish F G 38270	Pacheff H P 37215
Nikolaev V A 37229	Evanston Ill Radio Dept 36105	Off Algérien d'Action Eco-nomique et Touristique (OFALAC) 39422	Oregon Dept of Agriculture 41845	Packard H R Jr 38975
Nikonoff G 37356	Norton E A 36105	Off International d'Hygiène Pub-lique 38472	Oregon Forest Products Laboratory 36671	Packchanian A 37692
Nilsson N E 37012		Ogilvy W S 40686	Orell B L 36501	Padgett J R 35947
Nimmo C C 40401		Ogilvy W S 40830	Orengo F 38271	Padrón L 35700
		Øglænd I 36448	Organisation for European Economic Co-operation 41565	Paetz F 36569
		Ognev I M 41100	Orlando G 41245	Paez C 40582
		Ohler H 39619	Orlov K A 38020	Paffenbarger R S Jr 38473
		Ohtani Y 35942	Orshansky G 34266	Page G E 39212
		O'Keeffe P O 34991	Ortega J C 38995	Page V M 34331
		O'Kelly J F 34765	Ortega Nieto J M 35107	Páhlman A 35398
		Okhremenko N S 39741	Ortiz Garmen-dia J 36766	Pahnish O F 38064
				Paiement R J 40831
				Pajbjergfonden 34388



	Item		Item		Item		Item		Item
Pakistan Dept of	40197	Parks R R	35151	Pear Growers	40268	Pessin V	39928	Phipps D L	36505
Advertising		Parks T H	38986	League		Peters B G	34236	Placco R	35648
Films and Pub-		Parks W J	39744	Pearsall W H	34592	Peters R	34131	Pic M	38544
lications		Parlow R	40962	Pearsall W H	35729	Petersen H I	35646	Picard A J	39804
Pakistan Dept of	40197	Parmenov D N	34722	Pearse A S	40199	Petersen J C	40585	Picard A J	41251
Commercial		Parmenter L	38634	Pearse C K	34894	Petersen N	37635	Picard R	39262
Intelligence and		Parmenter L	38635	Pearse C K	34895	Petersen N	39187	Picasso S L	36109
Statistics		Parneix P	34723	Pearson A M	38039	Petersen P D	34135	Piccarolo G	36451
Pal R	38272	Parneix P	35949	Pearson A M	38042	Petersen W	35647	Pichev D	37234
Palacios Cueto	37590	Parodi R A	34724	Pearson A M	41807	Petersen W E	37232	Pichon A	40414
T		Parodi R A	34725	Pease W	40200	Petersen-Dahum	41250	Pickell M W	40597
Palafox A L	37729	Parodi R A	34726	Pechanec J F	39102	Peterson D R	37233	Picken L E R	38890
Palamarchuk	40960	Parr T	38274	Pedersen R	37440	Peterson D W	37636	Pickett A G	36871
M M		Parra R A	36691	Peeler H T	36769	Peterson D W	37637	Pickford R	35551
Palamersic D	34721	Parrin F W	40332	Peeters G	37230	Peterson E L	40586	Piedra A A	38891
Palazzo F P	34591	Parris G K	34019	Peeters G	37983	Peterson E L	40586	Pielen L	34636
Palicte L J	37019	Parris G K	35227	Peglion V	40269	Peterson E L	40633	Piemsel R L	34255
Palleri G	39743	Parris R W	40871	Pei H S	41847	Peterson G T	40332	Pierangeli E D U	41770
Palli V F	38540	Parrot L	37253	Peillon A	37505	Peterson J E	39599	Pierce C W	39961
Palimpsestov	38474	Parrott I M	34774	Peliron H B	35399	Peterson S	37422	Pierce G L	35404
M A		Parrott P H	36191	Pelchat V	38889	Peterson V	41501	Pierce W H	41337
Palin P S	35210	Parshley H M	41890	Pelegri P	38057	Petev D	35987	Piercy S E	37235
Palm C E	38273	Parsons F	40584	Pelegri P	39043	Petit J	40757	Pierre P	35150
Palmer E F	35136	Parsons L C	39568	Peletminskii	40963	Petit-Laurent V	41445	Plester J M Jr	34897
Palmer E L	41920	Parsons S R	36637	V N		Petrak F	33907	Piguet A	40497
Palmer P	34893	Partain L E	41020	Peli I	36817	Petrak F	33925	Piha A	36263
Palmer R C	40145	Parthasarathy D	37632	Pelissier C L	37296	Petrak F	33926	Pijls F W G	36047
Palmer R C	40198	Partridge B M	33770	Pelkwiak A J ter	33796	Petrak F	33927	Pilkey A M	37603
Palmer W	38995	Parvin D W	39569	Pellet F C	35702	Petrak F	33928	Pillai S M	34362
Pal'min V	40610	Pascual C R	41811	Pendleton J W	34727	Petrak F	33929	Piller J	36571
Pakt J	39261	Pasechnik V A	40960	Peng C L	34573	Petrak F	33930	Pillsbury A F	36048
Paludan H	35547	Passalacqua	38698	Penionzhkevich	37822	Petrak F	33931	Pillsbury P W	39423
Panattoni A	41366	C de S P		E E		Petrak F	33932	Pincus L	39828
Pandya P H	41032	Passin H	41502	Penningsfeld F	34522	Petrak F	33933	Pineda M A	40015
Panek	41722	Passos S M de G	34785	Penny W J	36769	Petrak F	33934	Pinheiro J V	38800
Panella A	35644	Pastorini F M	35840	Péguignot R	35951	Petrak F	33935	Pinkos J A	37100
Panella A	35645	Pastrana J A	38821	Perdrix J	37823	Petrak F	33936	Pinson J	41285
Panich A S	40961	Pastrana J A	38987	Pérez Marín P	40779	Petrak F	33937	Pinto P A	38156
Paniklov D	41889	Pastrana J A	38988	Perez-Salas y	35212	Petrak F	33938	Pinto Salva-	40499
Panfushkin A	38001	Patac de las	40754	Lamo de		Petrak F	33939	tierra J	
Panfushkin A N	41033	Traviesas L		Espinosa J		Petrak F	33940	Piper A	40358
Pankova F	40832	Patel C B	40732	Perfumery and	40756	Petrak F	33941	Piroux E	39088
Pankova N A	34628	Patel G A	35549	Essential Oil		Petrak F	33941	Piroux F A	38637
Panov V	37622	Patel M K	34082	Record		Petrak F	33941	Pirafinski A	36648
Pant G D	38159	Paterilo G A	38772	Pergamino	34728	Petrak F	33941	Pirle H	38276
Papaliacovou M	35108	Pateron R	37322	Argentine Re-		Petrochenko E I	34596	Pirovano A	35214
Papi C	37014	Paterson R	41334	public Centro		Petrov G	36449	Pitter R	35215
Papi G U	41723	Patil J A	35481	Regional Pam-		Petrov M N	36570	Pizzuti A	39571
Papin J	39803	Patino V M	40754	peano de In-		Petrucchi E	37015	Plager R G	38130
Papp C S	38541	Patifo López	41248	vestigaciones		Petterson H	37441	Plakida E K	40415
Papp E	37469	de Ayala P		Agropecuarias		Pettinari C	34593	Plassche A W	35018
Paramonov S J	38657	Paton D F	35950	Perlin D	41088	Petukhov K F	40587	van de	
Paray L	33856	Patrone G	36262	Perlis Pérez P	41009	Petunin F A	37120	Plassche A W	40270
Pardey W N	38840	Patrons of Hus-	41249	Perotti R M	37789	Peyer E	35213	van de	
Paredes C A	33780	bandry		Perraten A E	35400	Peyronel B	34136	Plata Guerrero	37236
Parentia C R Jr	38209	National		Perron M A	41569	Pezzi E M	35073	R	
Parfenov A	36261	Grange		Perry A S	38231	Pfeiffer K	41336	Plate R	39572
Parguev	36767	Patten W F	41335	Perry B A	35477	Pfenninger W	38543	Platt C S	37639
Parham A P	37122	Patterson E L	34224	Perry E J	37323	Pfund J	39322	Platt C S	37821
Parisio A	36045	Patterson P J	41649	Perry J R	40014	Phelps E F Jr	39570	Platt C S	37825
Park R	37470	Patterson V C	39952	Perry R L	35151	Philbrook D	36638	Platt F L	40834
Parker F W	35839	Patton A R	37633	Perry T D	36622	Philip C B	38486	Platt H	37367
Parker F W	35948	Patton E L	36653	Perry T D	36623	Philipp W	38771	Platzer H B	36424
Parker H L	38585	Patton J G	41650	Perry T W	38096	Philipp W	38775	Platzer H B	36559
Parker J E	40833	Patton S	39846	Perry W J	38155	Philippi E	35017	Plaut G W E	37984
Parker J E	38930	Patton T E Jr	38275	Persi R	34896	Philippis A de	33857	Plfakhin G	39849
Parker L T	39531	Patushin P	36924	Persi R	38773	Philipse W	35072	Plouvier V	34594
Parker L T	40583	Paul	40099	Pertulla U	33747	Phillips C E	37716	Plumlee M P	39077
Parker M M	35211	Paul W	34459	Pertulla U	36476	Phillips G A R	35402	Plummer C C	38731
Parker M M	35548	Paul W	38599	Péruchon J	36770	Phillips G A R	35403	Plummer P J G	38037
Parker-Rhodes	34389	Pavan C	38636	Peruchon J	37634	Phillips J M	36450	Podberezkin	36925
A F		Pavlov P	38475	Perusini G P	37541	Phillips J N Jr	34523	La IA	
Parkin N E	36107	Pavlovch V	35550	Perezadaev O F	37231	Phillips P H	37121	Poddubnyi I G	35109
		Pavlovskaf A E G	40496	Pesante A	33924	Phillipson A T	36870	Podgaevskii M	34920
		Pazzanese F	35701	Pesante A	34019	Phillis E	35955	Podlipenskiif	33160
		Pazzi J J O	36108	Peshkov A N	37119			S IA	
		Peake E C	40755						



Item	Item	Item	Item	Item	Item
Poe W D 34729	Potter N A 40392	Procter C 35730	Quillon P 35787	Rath J 34703	
Poeverlein H 41891	Potter T E K 38776	Procter C 39354	Quin A H 38097	Rath J 34705	
Pogg' F 36049	Potts R C 34841	Procter F 40019	Quinn D G 35955	Rath J 34706	
Pogorelko A S 38116	Potts R C 34848	Proctor G R 33782	Quinn O B 40321	Rathore A 37017	
Pogosián I B 37471	Potul'nikskii P M 34899	Procter J 34901	Quintard G 40588	Ratineau J 41398	
Pogue R 36506	Poul J 37369	Proctor R C 35407	Quinteros M 36110	Raucourt 38901	
Pohl 38407	Poulson A E 35803	Prodanoff P 36874	Quisenberry K S 34097	Raup H M 41892	
Poignant P 34423	Poulson E N 35803	Proebsting E L 35151		Rausch H 36398	
Poirée 36050	Poultry Association of Gt Brit 37827	Proebsting E L 36151	Rabéchault H 34786	Raustadt R P 41652	
Pojarliev G 36647	Poultry Farmer 39089	Proença L M 38282	Rabotnov T A 41885	Rautenberg H J 38410	
Polak B 35806	Poultry Supply Dealer 40841	Prokof'ev A A 36265	Rackow H G 37238	Raux L 40196	
Poldelmengo O 36311	Pound G S 34139	Prokof'ev A A 40875	Raczynska K 40416	Ravá M G 41058	
Polfákov D K 36872	Poursines Y 37385	Prokoshev S M 34596	Radel L H 36737	Rave 36425	
Polfákov D K 37506	Pourtet J 36336	Proudfoot F G 37830	Rademacher B 34237	Raven J E 33783	
Polfánski M 36771	Pouska F 36705	Provan A L 39852	Radina M M 39264	Ravenna G 33750	
Polikoff H 39901	Poux C 40291	Provan A L 40020	Radir R 41596	Ravenstein M van 39046	
Politova-Sovzenko T K 39745	Powell C B 41724	Provost M W 38700	Radley J A 39457	Rawlings B R 41253	
Polivka J B 38545	Powell D 34140	Prummel B 35842	Radspinner W A 40417	Rawlings C O 34021	
Polkanov N N 37507	Powell D 38278	Pruzansky J J 39456	Radzievskii I 39161	Rawlins W A 38638	
Pollard A 34595	Powell D P 36051	Pryke P I 34951	Raeburn J R 39503	Ray D H 36896	
Pollard A G 35763	Powell L B 41010	Puccini G 36052	Raggio M 34524	Raymond P 41339	
Pollard W B 41057	Powell-Owen W 37591	Puerta F de la 35110	Raggio N M de 34524	Rayner R W 35706	
Pollard W S 37826	Powell-Owen W 37828	Puerto Rico Government Development Bank 41570	Ragonese A E 34538	Rayner R W 35707	
Pollitzer W S 37722	Powell-Owen W 37829	Puerto Rico Planning Board 41570	Ragonese V C 35020	Razous P 36266	
Pollos y Herrera J 37926	Powell-Owen W 39323	Puerto Rico Water Resources Authority 36053	Ragsdale A C 41338	Razous P 36536	
Polo Jover F 37717	Powers E 34332	Purcell M R 39502	Raguenaault R 39265	Rea H E 35655	
Polonovski M 39850	Powers J H 38996	Purcell M R 39513	Raineri C 35956	Ready D 34507	
Polonovski M 39851	Pownall H 37016	Puri G S 35781	Raineri C 40099	Reagan R L 37720	
Polonovski M 40016	Praetorius F K 41725	Purnell D C 36363	Rains A T 40322	Reagan R L 37721	
Polonskaia M S 36755	Praill F E M 3553	Purr A 40500	Rainwater C F 38539	Rearden J D 36478	
Polunin O 33781	Prakash M 36519	Purse M 38408	Raizada M B 33858	Reaves P M 36775	
Polykovskii A 40017	Prangen H 41252	Purvis E R 35742	Rakonfsa G I 35216	Rebouch H 35957	
Ponce A L 41651	Prat J de 36773	Purvis E R 35743	Ramachandran S 38409	Rechenberg H A 40501	
Ponewczynski H J 34280	Pratt A M 35704	Puryear M 40759	Ramage W D 39592		
Pongratz E 34137	Pratt A M 35705	Pushin F E 39213	Rambler A 38546	Rechenhith C A 34904	
Ponomarev A N 34899	Pratt E R 36312	Putnam G W 39806	Rambler A 38914	Recke 39939	
Ponomareva N L 37120	Pratt F F 40380	Putnam H O 34142	Ramírez C A 39807	Redder A M 39462	
Pont A 34020	Pratt H D 38699	Putnam H O 34734	Ramnani D R 37719	Redding R W 37389	
Pontis R E 34138	Pratt J J Jr 38157	Pütz H 41809	Ramon G 36876	Redfern C F 40876	
Popandopulo P Kh 36772	Prault L 41446	Pyrkii C 40991	Ramos A S 38669	Redfield C S 40061	
Pope L S 37972	Prebluda H S 36774	Quadland H P 33749	Ramsbottom J M 40652	Redit W H 40417	
Popiralko S 39263	Prentzell H 36873	Quaife E L 38058	Ramser H 37473	Redmond W B 37722	
Popov A D 35074	Prentice I W 34215	Quaife E L 39090	Ramstad P E 39903	Reed C F 33859	
Popov M G 33748	Prescott T 39189	Quarrell C P 36054	Ranadive S J 35753	Reed C F 34022	
Popov'sanfs M N 36887	Presley J T 33974	Quarrell C P 39354	Rance Sir H 41197	Reed F D 33751	
Poré J 40758	Presley J T 34141	Quastel J H 35782	Ranchenstein E 39044	Reed F M 36789	
Porte W S 35552	Presley J T 34163	Quate G S 38777	Randall A G 36560	Reed H J 41254	
Porter B A 35135	Preston A L Jr 34900	Queen W A 39532	Randall A G 36561	Reeder J R 33860	
Porter J A 36163	Preston C R 39805	Queensland Acclimatisation Society 35019	Randet P 36337	Rees H G 39622	
Porter K B 34730	Preston F G 35405	Queensland Bur of Sugar Experiment Stations 34974	Randolph C 39045	Reeves R C 39424	
Porter L G 36164	Prevo A A 37639	Queensland Dept of Agriculture Div of Animal Industry 40052	Randolph C 39091	Reeves R E 40202	
Porter L G 36168	Price C 34439	Queensland Dept of Agriculture Div of Dairying 40053	Randolph W L 40201	Refrigeration Research Foundation 39623	
Porter R M 37103	Price D A 37927	Queensland Dept of Agriculture Div of Dairying 40053	Ranninger R 35555	Refuerzo P G 37239	
Portères R 34731	Price D A 37932	Quick R H 34902	Ranninger R 37508	Regan C W 35408	
Portères R 34732	Price T H E 37928	Quicke G V 37121	Ransom M W 39791	Regel C von 39425	
Porterfield I D 37324	Price W A 41772	Quillet M 34597	Rao N S K 38476	Rego G M E 36211	
Portis S A 41771	Pridham A M S 35406		Rao S B V 37711	Regt N A de 38893	
Portland Union Stock Yards Co 40634	Prier J E 37719		Rao Y S 41034	Rehr K 39047	
Portsmouth G B 35703	Prince A B 35756		Raper A F 41502	Rehwinkel 36267	
Portsmouth G B 35715	Princi F 38279		Raper K B 34333	Reich B 36111	
Portugal Instituto Nacional de Estatística 39649	Princi F 38280		Raphael T D 35217	Reich H 34113	
Posada Franco R 41569	Principi P 35953		Rapin J 34143	Reid E P 40635	
Posthumus G 40018	Pringle F 41403		Rappaport J 34337	Reid J W 34905	
Postnikov G M 37472	Prins M 41726		Rappaport J 34525	Reid M E 37550	
Potočanac J 34733	Prioton J 36264		Rappard F W 36477	Reig Field A 40419	
Potomac Grange No 1 Patrons of Husbandry 35841	Pritchard N T 39902		Räsänen V 33942	Reig Field A 40419	
	Pritchett W L 35954		Rasbech N O 36934	Rein H 40203	
	Proctor B E 39448		Rasey R M 34903	Reinalda L 39288	
	Proctor B E 39616		Raski D J 34239	Reinecke V 35556	
	Proctor B E 39621		Raskin G 36039	Reinhard H J 38639	
	Proctor B E 41808		Ratcliffe J 38158	Reinmuth E 35843	
				Reis A 34906	







	Item		Item		Item		Item		Item
Sabrosky C W	38645	Santhanam V	34362	Scheid H R	39910	Schramm W	36764	Scott I W	37329
Saburov N	40369	Santiago L C	41811	Scheitlin M	37392	Schread J C	38283	Scott J W	38406
Sacchi G	36283	Santurio J	40272	Schember V E	34841	Schreiber R	39190	Scott L C	36172
Sachs L	35561	Sappa F	34257	Schemel M P	33754	Schreiber V	39753	Scott M L	37617
Sacks R	41448	Saralya R G	40212	Schenck H E	41655	Schreier O	38786	Scott M L	37641
Sackston W E	34532	Sarasola A A	35078	Schenk P J	34029	Schreiner R	40905	Scott M L	37732
Sacktor B	38646	Sarawak Dept of Agriculture	41851	Schenk P J	34534	Schrenk	40533	Scott R C	40342
Saenz Dozal R	36365	Sarfatti G	34336	Schenk P J	38785	Schreyer T	37395	Scott W A	40421
Sáenz Dozal J	36538	Sarkati G	35649	Schenker P	38517	Schröder	35563	Scott W E	35853
Sagar V	41449	Sarkar P B	40213	Schermer J	37393	Schröder G	39327	Scotton M	39051
Safápin V I	39268	Sarkisfan G L	35164	Schermer S	37510	Schröder K	40534	Scotton M	39270
Saila S	38993	Sarvas R	36427	Schermerhorn	35562	Schrodt	38284	Scoville G P	41403
Saller R I	38784	Saskatchewan Dept of Natural Resources	36269	Scheu O	37249	Schroeder C A	35239	Scriban R	40456
Sainclivier	34335	Saskatchewan Milk Control Board	39909	Scheuble R	36270	Schroeder G H	36454	Scruggs C G	34913
Saint-Martin D	35221	Sasscer E R	41899	Schliav A	38282	Schroeder W T	38613	Scruggs J H	36887
Saint Paul Union Stockyards Co	40636	Sastry G A	37247	Schifani C	41656	Schroeder W T	38611	Seale A D Jr	41404
St-Pierre L N	36707	Sastry G A	37509	Schiff L	35844	Schroth D	36688	Seale C C	34777
Saint-Quentin M	39113	Satina S	34337	Schild E	39752	Schrumpf W E	36688	Seals W F	40769
Saint-Viance	41810	Satina S	34391	Schill L	39576	Schubart O	41348	Searle G H	40028
Mme de		Satina S	34525	Schill L	41259	Schubart O	38478	Searls E N	39915
Sair L	39625	Sauchelli V	35962	Schill L	41260	Schubert A	38479	Seay W A	35759
Salz Moreno L	37025	Sauger L	34955	Schiller O	41342	Schubert G	38417	Sebelin C	41729
Salz Moreno L	38647	Saunders	37026	Schindler H	34030	Schubert G	34459	Sechet J	34432
Saja F	41450	Saunders B	37419	Schindler K	37511	Schubert W J	38599	Sechet M	34037
Sakamura T	34533	Saurman A V	40325	Schindler R	37510	Schuck C	36686	Seckman M C	35421
Sakornbut S S	36696	Sautin V M	39724	Schindler U	36481	Schulte-Wülwer	39444	Secrett F A	35022
Salaberry F de	35969	Savage B M	37988	Schlamb K F	37643	Schultz E W	40697	Seedorf W	41482
Salafranca E S	37246	Savage E F	38549	Schlicht W	34149	Schultz T W	41895	Seegers S	41262
Salafranca E S	38098	Savage Z	40273	Schliemann W	34149	Schultze A B	41341	Seegmiller C G	40287
Salafranca E S	38099	Savary A	41402	Schlittler J	40326	Schulz K C A	36781	Seelig R A	40327
Salas M	37891	Saville G	39506	Schlotthauer C F	37394	Schulz W	37986	Seetharaman C	37733
Salcedo J Jr	41749	Savin F E	36400	Schlumpberger F	41773	Schulze W	39813	Segal D B	36895
Salcedo J Jr	41811	Savinskiy G	39177	Schlüter H	39050	Schuphan W	38285	Segars C B	33862
Salces F	37542	Savler D	36630	Schmalzuss H	40027	Schürch T	34219	Segers C	34914
Salerno P R	38281	Sawin P B	39326	Schmid G Jr	34150	Schurer H	37251	Segler G	39163
Salewski H	39907	Sax K	39426	Schmidt H	38416	Schuster	40877	Seiden R	36883
Salguero V A	35116	Saxhaug J	36551	Schmidt H W	34150	Schuster M	40533	Seidler	39052
Salisbury G	40666	Sayana V V	41021	Schmidt K	38415	Schuster R M	37513	Seidler L	39856
Salisbury G W	37875	Sbarra N H	38704	Schmidt C P	38104	Schwarz	33887	Seidler E	37392
Salisbury J D	38100	Scanlon E H	35417	Schmidt E L	35784	Schütttauf W	40768	Seifert H A	38022
Salkeld E H	38413	Scaramuzzi F	34338	Schmidt H	34031	Schwab F	36455	Seifert H A	40591
Sallans B J	34153	Scaramuzzi F	35649	Schmidt H	38416	Schwabe C W	37731	Seinhorst J W	34239
Salmi V	33837	Scarborough H H Jr	34280	Schmidt H W	41852	Schwartz D	34339	Seitzer	35079
Salmon E S	39751	Scarseth G D	35731	Schmidt K	36317	Schwartz E	34286	Seitzer	35080
Salmon J T	38739	Scarseth G D	35963	Schmidt K	37512	Schwartz H S	34035	Seitzer	40274
Salo T P	40601	Schaaf A	38016	Schmidt W A	35738	Schwarz A	36539	Seitzer	40343
Saltonstall L Jr	34855	Schaal W	39507	Schmid H	36654	Schwarzkopf V	39855	Seixas C A	38556
Sampler J	40637	Schaal W	40904	Schmidt K	41657	Schweizerische Milchkommission	39914	Selle E	39053
Sample G W	41131	Schachinger L	39461	Schmitt F	37029	Schweizerische Bauern- verband Preis- berichtsstelle	41261	Sellers K C	38081
Samuels R	35961	Schaefer C H	39962	Schmitter	36881	Schwerdtfeger F	36482	Sellke K	38286
Samuelson M J	39269	Schaefer J W	34028	Schneider B	37126	Schwerdtfeger F	38553	Sellschopp A	37330
San Agustin F	38101	Schaefer W F Jr	37027	Schneider B H	37734	Schwerdtfeger F	38554	Sellschopp A	41263
Sanborn H C	35416	Schaeffer A	36316	Schneider D	34911	Schwetz J	38705	Semak I L	37127
Sanchez C S	39474	Schaeffer L	34555	Schneider F L	37030	Schwitters	35418	Semenfuk I M	39111
Sanchez J	39575	Schaeffer L	36520	Schneider M	37250	Schwörers	36782	Semenov N P	37304
Sanchez J	40271	Schaeffer L	35783	Schneirla T C	35222	Schwörs	38536	Semplo C	34340
Sanchez M	40590	Schaetz F	37248	Schoch W	38823	Sciaroni R H	37031	Senfleben	39271
Sanchez Roge G	37985	Schäfer K	39135	Schoel W	36780	Scotchett A	35419	Sengbusch R	35153
Sanctuary W C	39325	Schaffer P S	39854	Schoel W	34032	Scoggin J K	38555	von	
Sandberg L	36292	Schallibaum U	39940	Schoel W	34033	Scoles C L	34151	Sen Gupta K C	37242
Sanders B G	37607	Scheck H	34638	Schoen P W	34034	Scossiroli R	34741	Serebriakov P N	36884
Sanders P M	39908	Schedl K E	38550	Schoene F	36377	Scossiroli R	34741	Serebriakov S	39131
Sanderson A R	38414	Scheerer	35709	Schoene W	35758	Scotland Dept of Agriculture	35968	Serebrinskij V A	40967
Sandford B	40324	Scheerer	35710	Schoening H W	40653	Scotland Dept of Agriculture	39644	Serentschy W	36650
Sandford J C	37886	Scheibe K	35650	Schoff J M	38138	Scott C E	35151	Serfontein P J	39328
Sandlifer T N	41102	Scheibe K	38552	Schofield T	35845	Scott G W Jr	37077	Sergew I	41264
Sandstedt H	38103			Schofield W F	33756	Scott I	35420	Sergeant E	37283
Sandy R A	36775			Schofield P G	40507				
Sandys J A	35151			Schoolcraft	36614				
Sang E	35021			Scholefield	40767				
San Gabriel G L	37730			Scholefield P G	35782				
San Gabriel G L	38102			Schoolcraft	40767				
San Martin L	34787			Schopmeyer G E	40785				
				Schopper J	34912				
				Schor	41059				



Item	Item	Item	Item	Item	Item
Sergeant E 38648	Shepherd G 39577	Silva J M da 38637	Slamp K R 40345	Smithfield Show 41576	
Sergeant E 38648	Shepherd R E 35423	Silveira H de S 34916	Slapney W O 37396	and Agricultural Machinery Exhibition	
Serpiari A 39754	Sherburne O L 38840	e C P da C da 38060	Slate G L 35225	Smits J Van 39046	
Serpiari A 41405	Sherrard D 35565	Simbol P 39165	Slater J A 38788	G Jr 39046	
Serpiari A 41451	Shestopalov I 39273	Simbriger F 39166	Slater W R 36063	Smock R M 40423	
Serr E E 35151	Shewell-Cooper W E 35155	Simbriger F 39166	Slawson H H 39214	Smock R M 40431	
Serr E F 35240	Shewell-Cooper W E 35566	Simes J J 34577	Slayback H R 36116	Smoljakova G K 37514	
Serr E F 35241	W E 35566	Simitri M J 33812	Sleeth B 34222	Smyth H A 36661	
Serra O P 38744	Shewell-Cooper W E 40422	Simlote K M 34537	Sljicken V 34917	Smyth R 36789	
Serrano P 34038	Shideler F 41574	Simmonds P M 34153	Slinger S J 37646	Sneek A van P te 40839	
Serres J 33785	Shields I J 34152	Simon G 40328	Sloan F A 37036	Sneep J 35465	
Serruys R B 41022	Shields I J 34220	Simon M 38290	Sloan H J 37603	Snider H J 35964	
Sers J 39341	Shields L M 34341	Simon y Regalado E 35567	Slovicov A M 36460	Snoek C 39756	
Serzhenko S S 35223	Shiffermiller W E 40031	Simonet M 34393	Small J A 33757	Snow B V 34921	
Sessions R E 39493	Shilovich M 39857	Simonet M 34391	Small R J 39540	Snow R 34345	
Severin H C 38287	Shimada F 38113	Simonnet H 39830	Small W N 40878	Snow S J 38528	
Severova A I 36456	Shingler G P 36655	Simonpietri R H 37933	Smiley E S 37268	Snyder B 40216	
Severson H 37331	Shipley G B 36610	Simons Q H 37033	Smirnov A A 37934	Snyder C F 40970	
Sevillano 36318	Shirfaev N 41023	Simorra J 40102	Smirnov L A 34343	Snyder E S 40840	
Carvajal V 37364	Shirlaw J F 37987	Simpson G 40705	Smirnov V F 35156	Snyder J C 35081	
Sewell O K 38033	Shirley R L 37670	Simpson K 36173	Smirnova K 40642	Snyder L A 33819	
Sewell R F 36783	Shishkin B K 33786	Simpson L L 36507	Smith A C 33867	Snyder L A 34346	
Sezemov M 37930	Shishkina B K 33864	Simpson R A 39628	Smith A M 36173	Snyder T E 38977	
Sezemov M K 36887	Shishkov I I 36458	Sims I H 40215	Smith C 36340	Snyderman S E 41775	
Shaburov M S 34915	Shitov A N 36926	Sinclair A N 37988	Smith C R 38100	Soap, Perfumery & Cosmetics 40771	
Shacklady C A 38288	Shitov A N 36926	Sinclair W K 34545	Smith C S 41346	Soares B A M 38481	
Shackleton P 38288	Shneider E E 40913	Sinclair R L 35711	Smith F F 34192	Soares R 40509	
Shaffner C S 37210	Shneider I U I 34187	Sindicato Verti- cal de Ganaderia 37841	Smith F F 34223	Sobels J C 34540	
Shakhnazarova M 40610	Shokh S P 37481	Sineshchekov A D 36885	Smith F F 38746	Sobolev I 39274	
Shalichev Y M 38003	Shokhin I A 40867	Singer R 33944	Smith G 38291	Sobolev K 41266	
Shan R H 33863	Shorthorn So- ciety of the United Kingdom of Gt Brit & Ireland 37128	Singh B M 38787	Smith G K 37397	Sobolev N S 37515	
Shank D B 34743	Shosh E I 35216	Singh S D 36708	Smith H 35425	Soby A 41105	
Shapton W W 41461	Showalter A M 34392	Singh T J 35846	Smith H A 39466	Sochava V 33758	
Sharafutdinov 36457	Shroff N J 39508	Singsen E P 37645	Smith H C 34154	Sociedad de Agricultores del Valle del Cauca 41663	
Sharar S 37128	Shtanko M G 39164	Singsen E P 37842	Smith H S 36585	Sociedade de Agriculatores del Valle del Cauca 41664	
Sharma G L 37733	Shtutman N 38060	Sinifsyn K 40592	Smith J B 38292	Sociedade de Agronomia do Rio Grande do Sul 35906	
Sharov I A 36061	Shubin A E 37332	Sinclair Y 34342	Smith J C 35876	Société Royale Saint-Hubert pour l'Amélioration des Races Canines en Belgique 37357	
Sharp A J 34258	Shultz H W 40652	Sioux City Stock Yards Co 40638	Smith J C 35906	Sohler H 41106	
Sharp F H 35564	Shumakov E M 33865	Sipples C 33866	Smith J C 35907	Sohnner R 35426	
Sharp M L 35422	Shumko D 39330	Sippel W L 37254	Smith J G 34918	Sokhadze P G 39757	
Sharp P F 39626	Shute H V 40838	Sippel W L 38106	Smith J G 37130	Sokol'nikov E A 37037	
Sharp S S 38289	Shuttleworth F 39941	Siqueira N de 41658	Smith J G 41659	Sokolov P 40592	
Sharp W 37129	Shvanvich B N 38929	Sirri A 37333	Smith K G V 38480	Sokolova N F 34541	
Shatilov V 39272	Shvefsov A A 39072	Sisakfan N M 34599	Smith L 36002	Sokolova N F 34788	
Shaulis N 35224	Shvefsova O I 38895	Sistek J 41403	Smith L A 37131	Sokolova S A 35157	
Shaulis N 35651	Sibbel B 39447	Sit'ko P O 38939	Smith L P F 41660	Sokol'skaya A P 40024	
Shaw A C 34598	Sibblitt L D 40475	Sitkovskii P A 36062	Smith L P F 41661	Sokov N 39093	
Shaw A O 37077	Sides B A 39953	Sittingding M H 40275	Smith M E 38790	Sol C J 40217	
Shaw C R 41767	Sidorenko A T 36459	Sivchik B S 37034	Smith O 35568	Sollis M 38134	
Shaw E W 36428	Sidorenko V I A 37475	Sivori E M 34538	Smith O 40335	Sollers H 38663	
Shaw J 37839	Sidwell G M 37927	Sixtensson S 37035	Smith O F 34240	Sollers H 38708	
Shaw J C 37175	Sidwell G M 37932	Sjöberg A 36886	Smith P F 34526	Sollogub A A 40971	
Shaw J C 37216	Siebeneick 40344	Sjöberg G H 35424	Smith R 39858	Soln'seva L I 40170	
Shaw J G 38734	Sieber J 34522	Sjöberg O 38557	Smith R 41662	Soloveichik A 39275	
Shaw W M 35746	Sieburth J M 37734	Sjöholm E 39815	Smith R B 34919	Solin A S 37133	
Shawcross G 39755	Sierk C F 36698	Sjöstrand J S 39651	Smith R D 39911	omasundaram M 39509	
Shawver C B 38042	Sierk C F 38023	Skachkov A I 36213	Smith R H 37476	Somers G F 39462	
Shcherbakov A P 34536	Skaller F 39627	Skachkov A I 36213	Smith R M 34539	Somers I I 39631	
Shchuchkin N V 39054	Skewert S W 41774	Skaller F 41575	Smith R M 34920	Somers R K 38293	
Shearon W H Jr 40968	Sigafoos R S 34248	Skepper A H 39192	Smith R M 37843	Somerville I C 40690	
Shack L L 37931	Sijtsma P 41103	Skerman P J 41462	Smith R T 39912	Sommerkamp G 41347	
Sheehy E J 37474	Sijtsma P 41104	Skilman E E 34221	Smith S E 37132	Sompolinsky D 37436	
Sheffel' I M 35109	Sikes J 41670	Skinner F A 35785	Smith S E 37951	Sonoda T T 40815	
Sheldon V L 35790	Silberkuhl- Schulte M 41132	Sklenar G 38418	Smith S E 37952		
Shelley M 40770	Silberschmidt K 41881	Skog R 38004	Smith S E 39427		
Shelor E 39627	Silen R R 36338	Skorin I E 36887	Smith S R 39629		
Shelor E 41774	Silina N P 40969	Skrypnik A 40689	Smith S R 39630		
Shelton D C 38059	Sillcock K M 37283	Skultin E J 35847	Smith S R 40329		
Shelton D C 38105	Sills D L 41502	Slavov A F 35732	Smith V R 37221		
Shelton F A 35747		Slaats M 35652	Smith V R 37984		
Shepherd E 40029		Slagle A B 39402			
Shepherd E 40030					



	Item		Item		Item		Item		Item
Sookne A M	40130	Spain Ministerio de Agricultura	36853	Staples G E	37102	Stewart A B	35963	Suarez de Castro F	36118
Soper M H R	36165	Servicio de Capacitación y Propaganda		Staples G E	37255	Stewart G	35654	Suarez de Castro F	36119
Sopikov P M	37735			Staples R	38754	Stewart G H	36586	Sucreries Mar-seillaises de Madagascar	39057
Soraci F	34195	Spain Ministerio de Agricultura	39406	Stapleton R T	37396	Stewart G R	36121	Sudre J	36193
Sorenson C J	38762	Servicio de Capacitación y Propaganda		Starčević J	36271	Stewart I J	37847	Suja González D E	38422
Sorenson C J	38824	Propaganda		Starcher G C	38558	Stewart J G	34925	Sukachev V N	34260
Soretz S	36687	Spalding G H	33759	Stark F C	40435	Stewart W L	37940	Sukhareva T T	35734
Soria G E	37036	Spangler R L	40346	Stark J B	40972	Stewart W N	33760	Sukhatme P V	34639
Soria G E	38107	Spanton W T	41665	Starr M P	34177	Stewart W S	34402	Suleimenov I	41853
Soria G E	38135	Sparapani G C	37737	Starzhinskiy A	39342	Steyermark J A	33787	Sumanov E A	34156
Soria Junta Provincial de Fomento Pecuario	36993	Sparapani G C	38482	Stasevskiy P I	40973	Steyskal G C	38650	Summer D C	39136
Soriano A M de	39463	Sparrow A H	34542	State-Federal Crop and Livestock Reporting Serv	39652	Stibinger	39051	Sumf K C	38423
Sorosa J M de	40772	Spaulling A E	36509	Stauch D M	38109	Stinson R	35431	Sumption M R	41503
Sorosa J M de	40773	Specht R C	35427	Standiff H	38420	Stirling A C	37437	Suomalainen	41854
Sorokoumov P	34922	Speese B M	34271	Standiff J F	33945	Stirling W	35432	Supreme Commander for the Allied Powers	
Sorteberg A	35965	Speese B M	34348	Stauffer J F	34528	Stitt L L	38602	Supreme Commander for the Allied Powers	
Sosov R F	37516	Speinle X	37334	Stauffer J F	34563	Stitt W R	38006	Supreme Commander for the Allied Powers	
Soth L	41133	Spencer L	39864	Stauffer J M	36510	Stiver E N	34789	Supreme Commander for the Allied Powers	
Sotier A L	40032	Spencer S J	35428	Stauffer O	39055	Stiver E N	35655	Supreme Commander for the Allied Powers	
Sotola J	38005	Spieth H T	38649	Stauning A	40277	Stoa T E	34745	Supreme Commander for the Allied Powers	
Sotola J	40593	Spisni D	36784	Stauss W	41349	Stobwasser H	38559	Supreme Commander for the Allied Powers	
Souèges R	34347	Spit J M	36166	Stearns D C	37517	Stock E	35969	Supreme Commander for the Allied Powers	
Soule C M	37844	Spitteri J	36785	Stearns L A	38710	Stocking G G	37518	Supreme Commander for the Allied Powers	
Soule G	38978	Spitzer C H Jr	38458	Stebbins F M	38927	Stockklausner F	35733	Supreme Commander for the Allied Powers	
Sousa J S I de	40276	Spoor P A	35226	Stebbins M E	34527	Stodard J A	40639	Supreme Commander for the Allied Powers	
South Carolina Dept of Agriculture	40992	Sporcq P	36167	Steeden H	36643	Stoddard E M	38192	Supreme Commander for the Allied Powers	
South Carolina Extension		Sporri H	38108	Steel J D	37375	Stoeckel R	37941	Supreme Commander for the Allied Powers	
Cotton Committee	38294	Sprague D C	39200	Steele J G	35808	Stoenner H G	37256	Supreme Commander for the Allied Powers	
Southcott W H	37989	Sprague H	36003	Steen C L van	36065	Stoffler H	39847	Supreme Commander for the Allied Powers	
Southern Corn Improvement Conference	34744	Sprague M A	34923	Steenbergen G	35501	Stogdale E	40347	Supreme Commander for the Allied Powers	
Southern Rhodesia Irrigation Dept	36064	Sprau G	41577	Stefanelli G	39276	Stokes D R	40349	Supreme Commander for the Allied Powers	
Southern Rhodesia Secretary for Native Affairs	41269	Springfield H W	34924	Stefanovakli I A	34546	Stokstad E L R	36746	Supreme Commander for the Allied Powers	
Southern St Lawrence Forest Protective Association	36508	Sproule J	37543	Steffen	38421	Stoll K	34443	Supreme Commander for the Allied Powers	
Southgate B J	38163	Sproule W H	39816	Stegenga T	37039	Stone P C	38622	Supreme Commander for the Allied Powers	
Souza J S I de	35082	Spurbeck G H	39816	Stehsel M L	34601	Stone W H	37273	Supreme Commander for the Allied Powers	
Souza J S I de	35158	Spurling M B	38280	Steil W N	34349	Stone W M	37990	Supreme Commander for the Allied Powers	
Souza O P C de	37736	Squiers C D	34039	Stein C D	36889	Stoner W N	34040	Supreme Commander for the Allied Powers	
Souman R C	40218	Sreenivasan A	36859	Stein W H	34602	Stoner W N	34225	Supreme Commander for the Allied Powers	
Spadaro J J	40737	Stacey C G	34600	Steiner H M	35159	Stones L C	38651	Supreme Commander for the Allied Powers	
Spagnoli A	36927	Staebler G R	37845	Steiner S J	40034	Storey I F	34056	Supreme Commander for the Allied Powers	
Spagnoli A	40054	Stage H H	36429	Steinhaus P M	40219	Stover L H	34056	Supreme Commander for the Allied Powers	
Spain Consejo Superior de Investigaciones Cientificas	40368	Stage H H	38663	Steinhaus P M	40219	Straka L E	35227	Supreme Commander for the Allied Powers	
Estación Experimental de Aula Dei		Stage H H	38707	Steinke L	37846	Strand L	40879	Supreme Commander for the Allied Powers	
Spain Dirección General de Aduanas	41730	Stahl C	38708	Stenult D	35966	Stransky E	36461	Supreme Commander for the Allied Powers	
Spain Ministerio de Agricultura	35188	Stahlberg H	34543	Stepanenko I A F	37040	Stransky E	37948	Supreme Commander for the Allied Powers	
Servicio de Capacitación y Propaganda		Stahmann M A	41348	Stepanov S N	35083	Strauli D	37887	Supreme Commander for the Allied Powers	
Spain Ministerio de Agricultura	35198	Stahmann M H	34224	Stephanopoulos O I	40510	Strauss A	39578	Supreme Commander for the Allied Powers	
Servicio de Capacitación y Propaganda		Stahr A	34528	Stephens C G	35809	Strauss A	39828	Supreme Commander for the Allied Powers	
		Stakman E C	35795	Stephens P R	41896	Strauss B S	34395	Supreme Commander for the Allied Powers	
		Staley T W	34544	Stephens R M	39094	Streeter J R	41666	Supreme Commander for the Allied Powers	
		Stall C W	40103	Stephenson A B	37593	Strehke	36272	Supreme Commander for the Allied Powers	
		Stall C W	35786	Stephenson R E	35740	Strelcher E	36272	Supreme Commander for the Allied Powers	
		Stallings G	40104	Stephenson R E	35967	Strel'nikov I G	34547	Supreme Commander for the Allied Powers	
		Stallings J H	41269	Stere J B	39329	Strickland L E	36051	Supreme Commander for the Allied Powers	
		Stallman M M	36117	Stern A I	39329	Strickland L E	36051	Supreme Commander for the Allied Powers	
		Stamm E P	38709	Stern H R	36889	Strickers J	35656	Supreme Commander for the Allied Powers	
		Stammer W C	36341	Stern J R	38509	Strikwerda R	37041	Supreme Commander for the Allied Powers	
		Stamper E R	39587	Stern K	37734	Ströbele	39963	Supreme Commander for the Allied Powers	
		Standen H	35653	Stern W L	36401	Stroh J	41921	Supreme Commander for the Allied Powers	
		Stange C	38489	Sternberg J	34259	Stroh J	41921	Supreme Commander for the Allied Powers	
		Stanley O	35072	Stevens H M	39830	Struble F B	41578	Supreme Commander for the Allied Powers	
		Stanley-Wrench M	38419	Stevens H B	36366	Struthers G	34155	Supreme Commander for the Allied Powers	
		Stanski F	35429	Stevens P G	40409	Strzelecki B	37257	Supreme Commander for the Allied Powers	
		Stanton B E	37398	Stevens P G	37935	Stuart P	37213	Supreme Commander for the Allied Powers	
		Stanton B R	37398	Stevens P G	37936	Stubbings W A K	38630	Supreme Commander for the Allied Powers	
		Stanton W R	40033	Stevens P G	37937	Stubbs D A	36383	Supreme Commander for the Allied Powers	
		Stapledon Sir R G	41812	Stevens P G	37938	Stubbs J	34414	Supreme Commander for the Allied Powers	
		Stapledon Sir R G	34545	Stevens R F	37939	Stucchi C	33761	Supreme Commander for the Allied Powers	
		Stapledon Sir R G	41270	Stevens R F	35569	Studer O	33762	Supreme Commander for the Allied Powers	
		Staples G E	41271	Stevens R F	40424	Stuivenberg J H M van	35084	Supreme Commander for the Allied Powers	
				Stevenson E E	38258	Stumper R	38825	Supreme Commander for the Allied Powers	
				Stevenson E L	37647	Stumpf R R	39599	Supreme Commander for the Allied Powers	
				Stevenson J H F	39095	Stünzi H	37392	Supreme Commander for the Allied Powers	
				Stevenson V	35430	Sturgis M B	35979	Supreme Commander for the Allied Powers	
						Sturkie P D	37739	Supreme Commander for the Allied Powers	



	Item		Item		Item		Item		Item
Sweden Statis- tiska Central- byrån	39653	Taroverdov L N	36928	Thamm H	40611	The Times Lon- don	35436	Trecanni C P	35085
Swenson H F	39817	Tarrant R F	36403	Tharp W H	38296	Timm T	41108	Treflerov S	39289
Swenson M J	37648	Tarver J D	41483	Thayer R H	37650	Timmons J F	41419	Trelease W	33872
Swift H	34603	Tasmania	41733	Thebis R	39059	Timofeeva I V	34589	Tremblett E G	38427
Switzerland	41942	Meat Board		Thebis R	39193	Tindale G B	41734	Tremearne T H	36156
Eidgenössische		Tasseron L	35117	Thebis R	39381	Tindall C	38136	Tremearne T H	36164
Landwirtschaft- liche Ver- suchsanstalt		Tassinari R	37259	Theelen G	41579	Tindall C	41580	Trémolieres J	41777
Zürich-Oerli- kon		Tatchell R T	34598	Theiss L E	35572	Ting P C	38979	Trenchi H	37741
Switzerland	41731	Tate H F	35118	Thentcheff D	36874	Tingo Maria	41944	Trenchi H	37742
Eidgenössische		Tatum E L	34590	Thérét M	37047	Peru Estación		Trendel	40037
Oberr- zolldirektion		Tavernier H	37260	Thevenot R	40426	Experimental		Trendel	40038
Switzerland	34159	Taylor A L	34241	Thielmann K	36344	Agrícola		Trendel	40039
Stations		Taylor B	41406	Thielmann K	38897	Tinker E W	36345	Treschow A	41353
Fédérales		Taylor C S	36067	Thiery J P	37521	Tinker E W	36641	Treshchetsk N	41368
d'Essais Viti- coles Arbori- coles et de		Taylor C V B	37547	Thijn G A	35573	Tinsley W V	41776	Tressler D K	39633
Chimie Agri- cole Montagi- bert Lausanne		Taylor E C	40860	Thijn J W	36892	Tippannavar	34956	Tret'akov N P	35971
Swonger C W	39964	Taylor E H	40594	Thimmlig J W	37200	M B		Tret'akova L	40040
Sy M	38896	Taylor F J	35433	Thirumalachar	33946	Tischer R G	40427	Treviño Saldaña	36378
Sychevskii V F	40974	Taylor H P	39632	M J		Tischer R G	40669	C	
Symes E L	40975	Taylor H S	40232	Tbom W	38712	Tishkova E	39330	Triest F J	39763
Symons T B	41274	Taylor J H	39511	Thomann	35970	Tison F	38653	Trigg R S	41277
Sylvén M	41732	Taylor J N	39025	Thomas	36787	Titus R T	36596	Trimberger G W	37336
Sylvestre G	34433	Taylor J P	35658	Thomas A	40374	Tfürin S T	39762	Trinchieri G	34162
Sylvestre G	35787	Taylor L J	37950	Thomas C A	34242	Tivoli	41367	Trinidad Forest	36273
Sylwester E P	35632	Taylor L J	37851	Thomas D G	35434	Tjónneland O	33871	Dept	
Syresin I	37544	Taylor M C	35849	Thomas F L	38317	Tkatchenko B	34957	Trip J	40430
Sysoev N	41863	Taylor P R	40425	Thomas G	35435	Tobias J	40036	Tripp T A	41581
Sysoev N I	39058	Taylor R L	39579	Thomas H E	34051	Tobin R B	40428	Tristram G R	39465
Szafran A	36890	Taylor T I	40431	Thomas J F H	38008	Todd A C	37990	Trochet L E	41668
Szczudowski K	37258	Taylor T M	33763	Thomas J F H	41350	Todt F	40965	Trocme S	34550
Szilvinyi A	34604	Taylor T R	41107	Thomas P H	35160	Tokmakov P	41351	Tronslien K	37442
Szyfres B	36891	Tchentchev I	38112	Thomas W	38424	Tolmachev A I	33788	Troost M A	37518
Taber E	37739	Teal E	39914	Thomassin C	39761	Tolnay P	34605	Truog E	35759
Tablantes	40774	Teare D W	39379	Thomasson R L	35822	Tolonen K	37335	Trout G M	40041
Marqués de		Technical Asso- ciation of the	36640	Thomé K E	40035	Tomanik E B	40223	Trulsson G	38137
Tabola R J	38111	Pulp and		Thompson C R	40105	Tomas K	40511	Trumble H P C	34551
Tabor P	34926	Paper In- dustry		Thompson D S	37961	Tomey A	37857	Trump D E	37200
Tachikawa S	40221	Teillard	34549	Thompson D S	40654	Tomlinson B R	36068	Tschorsch P H	40515
Tackholm V	33868	Teitelbaum S S	38793	Thompson E M	41452	Tomlinson F R	39060	Tsibizov N I	39859
Taft D L	34548	Teivainen L	38793	Thompson J N	37852	Tomppert H	37262	Tsubaki S	38113
Taggart J I	37849	Telang M A	41288	Thompson L M	35760	Tomson C K	37048	Tsuchiya Y	34607
Tagle E C	37045	Teles e Cunha J	38637	Thompson L N	40844	Tomson C K	37049	Tsuchiya Y	41815
Takahashi R	38791	Templeton G S	37876	Thompson S H	40640	Tondeur R	34606	Tsuchiyama T	41502
Takahashi W N	34226	Templeton G S	37888	Thompson W	34927	Toner R K	40232	Tsvetkova I V	34447
Takeuchi T	33766	Templeton R P	38711	Thompson W C	37853	Tonjes H	39942	Tsynkov M	41354
Tallarico G	35848	Templin A T	40513	Thompson W C	37854	Tonkin J D	41670	Tucker C	41762
Tallarico G	37134	Tenant R	37358	Thomson A G	36603	Tonsley C C	38425	Tucker H H	35972
Tallarico G	41814	Tennant R B	40994	Thomson R W B	36562	Tonzetich J	37627	Tucker J	37972
Tamamshfan	33869	Tennberg F	34746	Thorbeck G	38047	Toole E R	34161	Tuda T	37523
S G		Teotia T P S	38652	Thorburn J	37855	Topley B	38299	Tully Mill	35973
Tamarchenko	39859	Tepifakova Z F	35780	Thornber C	37856	Torgeson O W	36585	Tulstrup N P	36402
M E		Teregulov I	39380	Thorp F	38061	Torrance D J	35437	Tul'zhenskova	39355
Tamondong S	35570	Terráquez Rod- ríguez J	37649	Thullbery H A	34042	Jr		F F	
Tamm V T	34157	Terrier C	34159	Thung T H	34227	Torricelli Diaz	36462	Tunblad B	38300
Tanda S	37520	Terrill C E	36698	Thuriaux L	40762	E		Tipukov M A	35228
Tanganyika	41275	Terruzzi F	37046	Thurman D C Jr	38713	Torrie J H	35438	Türcke	36483
Tanguy F	35666	Terry M E	39520	Thurman E B	38714	Torrisi M	35114	Turianskii G F	34550
Tapia E A	38792	Tesche W C	40278	Tiberio M	36761	Torrissi M	35115	Turk A	40431
Tapke V F	34153	Tetefort J	39122	Tidman D A	38297	Toryu Y	36893	Turk K L	36788
Tapley W T	35571	Tetefort J	39122	Tidmarsh C E	35659	Tosco U	37740	Turk K L	37132
Tapp J W	36343	Tewksberry G M	39000	Tiedjens V A	35574	Tourte R	40362	Turk K L	37337
Tarasevich L M	34218	Texas Poultry	40842	Tiedjens V A	35575	Toussaint	34955	Turk R D	36895
Tarasevich L M	38940	Improvement		Tiemann H D	36584	Tovey H S	41453	Turk R D	37157
Tarasewicz W	37399	Association		Tiffany L H	34160	Towner E B	38426	Turk R D	38301
Tarín Sabater	39759	Textile Operat- ing Executives	40222	Tiitinen A O	33764	Townsend C T	40429	Turk R D	38469
J		of Georgia		Tikhonov V N	38062	Townsend R B	33765	Turkey Off	41735
Tarnopol'skii E	40691	Thacker E J	39462	Tilden D H	39464	Tracy P H	40036	Central de	
		Thackrey J F	39580	Tilemans E M J	38298	Tramel T E	39569	Statistique	
		Thalenhurst W	39560	Tilkin N	35576	Trans-Jordan	41352	Turlapova A P	35578
				Tilkin N	35577	Dept of Lands		Turn J	37665
				Tillmann F	40775	and Surveys		Turner J R	36577
				Tilquin A	37522	Traver J R	38483	Turner M	39344
				Tilt J	34756	Travis B V	38654	Turner N	38302
				Timber Engi- neering Co	36604	Travis B V	38715	Turner R A	41671
						Travis M	35439	Turner S D	36274
						Trawinski A	36891	Tusev N A	34398



	Item		Item		Item		Item		Item
Tutenkov N N	36214	U S Livestock	37264	Vannier H	36123	Vestal C M	38140	Vogel W	38656
Tutin T G	33873	Sanitary Asso-		Vannote R L	38717	Vezin C	34555	Vogler E	35978
Tverdum O G	37982	ciation		VanPelt D H	37139	Vial E E	39820	Vogt G B	41875
Twinn C R	38716	Committee on		Van Rensburg	36124	Vial E E	39365	Vogtherr L	40595
Tyler N	40692	Brucellosis		C J J		Vianello G	36899	Vohs R L	38063
Tyler R L	39512	U S Off of	41907	Van Rensburg	37052	Vianello G	37266	Vořda A	41889
Tyrer T G	37135	Education		S W J		Vianna G	35581	Voigt J W	34262
Tyrer T G	37263	Home Econom-		Vanselow K	36347	Vianna N	35976	Vořtov P	41356
Tyrer T G	39818	ics Serv		Van Slyke E J	35803	Viannay C	34747	Volanti U	39821
Tysser H F	41736	U S Patent Off	35229	Van Wormer	34045	Vickers F S	37860	Volf J	37524
Tyszkiewicz E	34433	U S Patent Off	35441	H M		Victoria Egg and	40852	Völker R	37401
Tzivanopoulos	40007	U S Tariff Com-	41740	Vári L	38900	Egg Pulp Mar-		Volkov I	41357
C G		mission		Varney H R	40279	keting Board		Volkov P	39137
		Unterstenhöfer G	38303	Varshavskaf	40977	Victoria Gov-	39658	Vollbrecht J L	37054
		Unterstenhöfer G	38304	E E		ernment Statist		Vollema J S	35714
		Urban E	38563	Vasak O R	40793	Vidart D	41494	Vollmer E	41755
Uhler L D	38655	Urquhart R	36674	Vashkevich F V	38139	Viebig J	36220	Volp P	38565
Uhmman E	39561	Urschel J R	40433	Vasilenko P M	39277	Vieira	36675	Volpini A	37055
Uitewaal A J A	35440	Usatova O	37892	Vasnikov P P	39096	Natividade J		Volpini A	37056
Ukhalin M M	36481	Uselman W E	40042	Vaughan L M	41586	Viel G	38902	Von Loesecke	40296
Ullrich H	40516	Ustenski A	40851	Vaughn R H	39466	Vierheller A F	35086	H W	
Ulmer W C	41669	Usov N S	35230	Vaughn W T	34850	Vierheller A F	38219	Voorhies E C	40596
Ulrich A	36998	Uttar Pradesh	41449	Vaux H J	36247	Viets F G Jr	34556	Voort M van der	35811
Ultée A J Jr	34479	Dept of Econom-		Vawter L R	37991	Viette P	41897	Voronov P	39278
Ulvesli O	37136	ics and Statis-		Vazart B	34350	Vignolo-Lutati F	34557	Vorozheikin I A	37057
Umezawa H	33766	tics		Veale M	40044	J M	40779	Vorreiter L	36625
Umezu M	37523	Vaart M F	37594	Vecchi A	38340	Viguier P	39061	Vorster P W	35582
Underhill G W	38484	van der		Veciana Vergés	37651	Vilbrandt F C	35658	Voskresenski D	36349
Underhill G W	38898	Vaart M F	37595	J M		Vilenskij D G	35723	Voskresenski	40280
Underwood E J	36789	van der		Veen A G van	41780	Vil'fams V R	35724	V I	
Union Cyno-	37357	Vaartaja O	36485	Veenstra J A	37893	Vilianski I L	40977	Vovchenko B V	39114
logique Saint-		Vaccheri G	34931	Veer E J van A	36464	Villa J	36657	Vrie M van de	35072
Hubert		Vachette J G	37051	de		Villar A D	34748	Vries E de	37597
Union of South	35023	Vachon M	38485	Vega Alcala J	41742	Villaseñor R	36676	Vyncke	34917
Africa Dept of		Vadimina A F	36393	Veihmeyer F J	36125	Villegas D E	39943	Vysotski G N	36299
Agriculture		Vago C	38935	Veilleux J M	37265	Villegas de la	36297		
Union of South	41856	Vaftsman J	36897	Veldhuis M K	40402	Vega R			
Africa Dept of		Vaftsman J	36898	Veldhuis M K	40432	Villeneuve G O	36512	Wacek A von	36688
Agriculture		Vaftsman J	37400	Veldhuizen H van	40519	Villeret S	33895	Wacek A von	36689
Union of South	39654	Vaftsman J	37596	Veldhuizen H van	40520	Villeret S	33896	Wachs E F	37669
Africa Union		Vaftsman J	37400	Veldhuizen H van	40520	Villeret S	33897	Wada H	38943
Off of Census		Vakin A T	36598	Veleda E	36126	Villiers A	38794	Wade G C	34046
and Statistics		Valay G	41741	Ven R van der	34987	Vilmorin M de	34164	Wade G C	34165
United Nations	39655	Valdés Fon-	41674	Venet J	37053	Vincent J M	39833	Wade G C	34558
Dept of Econom-		tecilla M		Venezuela Direc-	36315	Vincent S	35442	Wade J C	41676
ic Affairs		Valdinoci M	36790	ción de Eco-	39657	Vincos A	36275	Wade J S	41898
Statistical Off		Valdinoci M	37138	nomfa Agrico-		Vine R	41407	Wade J S	41899
United Nations	36069	Valdinoci M	39819	la		Vining K	36404	Wadley F M	38160
Economic and		Valdivia A A	35713	Venge O	37423	Vinit F	41355	Wagener G	37402
Social Council		Valentine K A	34932	Venkatappiah D	40710	Vinje O T	41777	Instituut voor	35025
Economic		Valenzuela R C	41811	Ventura E	38901	Vinson E B	38305	Tuinbouwtech-	
Commission for		Vallance K B	34553	Venue J	41675	Virginia State	35443	Wagenknecht	36465
Asia and the		Vallance L G	34977	Verbeelen L	41743	Horticultural		Wagenseller K	36169
Far East		Valle O	34958	Vercesi D R	36110	Society		Wagner C C	37391
Bur of Flood		Valle T	40434	Verdcourt B	38564	University	39431	Wagner C P	40107
Control		Vallee A	37883	Verdeyen J	34933	Bur of Popu-		Wagner J	35660
United Nations	39428	Valori F	41025	Verdeyen J	35974	lation and		Wagner K H	40780
Interim Co-		Van Bavel	35735	Vereinigung	35580	Economic Re-		Wagner M W	41279
ordinating		C H M		Schweizerischer		search		Wagner R	37946
Committee for		Vance M	36463	Versuchs- und		Virnik D	40693	Wagner S	37947
International		Vandemark N L	37875	Vermittlungs-		Virolainen J	41473	Wagner S	34750
Commodity		Vander Hoening	40631	stellen für		Virot R	34261	Wagner W H Jr	33882
Arrangements		G		Saatkartoffeln		Vislagin N I	40521	Wahl I	34166
United Nations	39343	Van der Merwe	37859	Verhoeven B	36071	Vissoch V	41278	Wahlen F T	41911
Secretariat		J A		Verhulst M P	39636	Visser D	41587	Wahlfisk K O	40706
Dept of Social		Van der Merwe	36070	Verma N S	37252	Visser W C	41454	Wahlin B	34047
Affairs		P J	40043	Vermaat J G	34554	Viswanathan H	38429	Walbel C W	34133
U S Bur of the	41737	P J	40518	Vermunt G	36646	Vitali G	39062	Wain R L	34520
Census		Van der Merwe	40443	Verona O	36140	Vites L S	35231	Waite Agricultural	38903
U S Congress	40777	P J		Vershinin P	35975	Vittoria A	34749	Research	
House		Vander Vaeren	41484	Versuchs- und	40045	Vivien P	37359	Institute	
U S Congress	40847	J		Forschungsan-		Vleeschauwer	40049	Dept of Ento-	
Senate		Vanderwalle R	34044	stalt für Milch-		A de		mology	
Committee on		Van der West-	41585	wirtschaft Kiel		Vogel F	35024	Wakefield N A	33874
Agriculture and		huizen W J M				Vogel H	37140	Wakeham H	40232
Forestry		Van Dyck R	40631						
U S Dept of	40976	Van Dyke A W	40298						
Labor		Van Horn J L	37962						
Wage and Hour		Van Lanen J M	39590						
and Public									
Contracts Div									
U S Geological	34249								
Survey									



Item	Item	Item	Item	Item
Wakeland C 38930	Warsaw Uniwer- 33767	Wedemeyer K O 36900	Westbrook F A 39100	Wiesmann R 38567
Wakeman A H 39806	sytyet	Weeks D 39582	Westerberg K W 39331	Wiggins E L 38025
Walasek E 38024	Ogrod Botani- czny	Weeks S B 41358	Western Aus- tralia Dept of Agriculture 41859	Wigglesworth V B 38161
Waldie J S L 41588	Washburn G E 38718	Weems A G 37339	Western Austral- 39660	Wijk C L van 36466
Waldron L R 34167	Washington Dept of Agriculture 34049	Wegener J B 40436	ia Statistician	Wiklander L 34441
Walkden H H 38904	Washington Dept of Agriculture 39659	Wehner A 36709	Western Austral- 39661	Wilbur D A 38908
Walker C R 41069	Washington State 34049	Wehrle H J 41901	ia Statistician	Wilbur J S 40287
Walker D 37948	State College Institute of Ag- ricultural Sci- ences 37949	Weidringer- Beyerberg 41590	Western 36218	Wilcke H L 37599
Walker J C 34224	Washington State 37652	Weigand E H 39614	Forestry and Conservation Association 41922	Wilcox F R 40641
Walker J F 37950	College Poultry Coun- cil 37745	Weiher S von 41902	Western Snow Conference 40694	Wilcox J 38310
Walker L H 40401	Washington State 37862	Welhing M 34983	Western States Meat Packers Association 34352	Wilcox R S 35450
Walker L W 38931	College Poultry Coun- cil 39098	Weihing R M 37143	Westfall J J 33768	Wilczynska H 37069
Walker R E 34048	Washington State 39099	Weiler F 38430	Westhoff V 39384	Wilczynska H 37092
Walker R G 40233	College Poultry Council 37745	Welmer J L 34168	Westinghouse Electric & Manu- facturing Co School Serv 38186	Wilczynski J 41860
Walker R K 35979	Washington State 41677	Welmer J L 34169	Westlake W E 36170	Wild E 39766
Walker R L 38566	Washington Uni- versity 34049	Weinert L I 40130	Weston S 37388	Wild L J 37061
Walker R V L 38087	School of Medi- cine 38826	Weinman C J 38198	Westphal A 37388	Wild L J 41678
Walla M 35026	Wassenaar T 34931	Weinmann H 34935	Westrip C E 39064	Wilder O H M 36794
Wallace J G 39167	Wasserman T 39592	Weinmeister B 38306	Weyland H 33769	Wildman S G 34416
Wallace J M 34228	Waterhouse D F 38657	Weinmeister B 39215	Wharton G W 38486	Wildman S G 34601
Wallace M J 34559	Waterschout P J 41280	Weintraub R L 34561	Whatley F R 34399	Wileden A F 41679
Wallace N 40234	Watkins J V 35445	Weintraub R L 34562	Whatley F R 34400	Wiley T E 37221
Wallace W D 39430	Watson C B 40597	Weir J A 36710	Whately J A 40602	Wiley W J 40047
Wallerius M J 39822	Watson C B 40598	Weir R 36517	Wheaton E 39593	Wilflinger H 35451
Wallin K 37058	Watson C B 40667	Weis J 36901	Wherry J 41134	Wilhelm G 40048
Wallis G C 37141	Watson D W 34224	Weiser J 36902	White A 40331	Wilhelm S 34051
Wallrich Law Off Shawano Wis 41900	Watson E J 39637	Weishaar L J 41011	White A N 38308	Wilhelmson R 39398
Walls E P 40435	Watson E R 34752	Welsmayr L 36367	White A N 38309	Wilke C F 37425
Walrave J 34751	Watson J 36929	Weiss H 36792	White C T 37379	Wilkie D 35452
Walrecht B J J R 38826	Watt A S 34263	Weiss J 39764	White E A 37270	Wilkins S 37625
Walsh R M 40781	Watt J A 37267	Weiss W 36793	White E L 39918	Wilkins W H 33770
Walsh W A 38141	Watts A V 35526	Weitz J 41359	White G D 38904	Wilkinson T 38162
Walter F 36350	Watts L F 36217	Welch C D 35754	White H C 35851	Wilks J M 34229
Walter F 40707	Watts L F 36276	Welch J H 40330	White I G 37271	Willaume F 38796
Walter T E 35715	Watts L F 36521	Weldon G P 35027	White J E Jr 40046	Willcox O W 35981
Walters F R 40997	Watzl O 38906	Weldon M D 35980	White J M 40109	Willcox O W 35982
Walters S W 34641	Way A M 34414	Welker K 38431	White J M 40348	Wille R 37272
Walther A L 36791	Weakly H E 36072	Wells E A 37269	White L 40437	Wilmet B 38114
Walther E 33883	Wear J M Jr 37598	Wells J C 34656	White S M 39954	Wilmet E L 37062
Walther G 36747	Weaver C R 38795	Wells J L 36983	White W C 34131	Willett E L 37223
Walter H H 37443	Weaver E 37268	Wells R W 38189	Whiteford P B 36379	Willey N B 37063
Walton L 34765	Weaver H 34261	Welsh C W 39765	Whitehead G B 38487	Williams B C 34353
Waluszczyk B 39097	Weaver J E 34262	Welsh M F 34229	Whitehead S B 35449	Williams F H 36171
Wandel G 34978	Weaver L 37653	Welsh W D 36352	Whitehill A M Jr 39431	Williams F H 36174
Wandhoff 37059	Weaver L O 38219	Welty B H 39917	Whitfield C J 34730	Williams F X 38827
Wandrek S D 34600	Weaver R 35446	Welvaert W 33986	Whitnash C H 39975	Williams H 39767
Wang S M 40782	Webb G E V 35447	Wend G 37379	Whitnall A B M 38487	Williams H H 38031
Wang T L 35788	Webb G E V 35448	Wendt W E 37391	Whittaker R H 34265	Williams H H 40110
Wangerin A 39408	Webb P W 40235	Wendt W E 38907	Whittemore F W Jr 38275	Williams H M 40853
Wantrup S V 36127	Weber C 39823	Wene G P 38973	Whittemore F W Jr 38275	Williams I 41281
Ward A H 37060	Weber F K 36351	Wenhard A 39216	Whittemore F W Jr 38275	Williams I 41592
Ward A H 37338	Weber R P 34453	Wense A E von der 36277	Wiant J S 40417	Williams J B 37144
Ward A H 40108	Weber T 35850	Went F W 34417	Wibberley G P 41495	Williams J R 38909
Ward A H 37142	Webster A P 38155	Wenzl H 34170	Wick H 37371	Williams R H 39392
Ward J C 41945	Webster G C 34560	Wenzlick R & Co 41474	Wickard C 41066	Williams L A 38980
Ward J D U 35444	Webster G L 33876	Werner H O 37720	Wickard C R 39382	Williams M S 41337
Ward N 35583	Webster L T 36513	Werner J H 41765	Wickard C R 39385	Williams S 40236
Ward W B 39916		Wessels H P 37202	Wickard C R 39386	Williams S 40237
Warden M L 37479		West Q M 41360	Widlund U 33877	Williams V J 37981
Wardlaw C W 34351		West R L 35716	Wiebe G 39138	Williamson C O 37545
Wardle N J 39001			Wiegand E H 39768	Williamson J 34753
Wardle N J 41589			Wiegand E H 39769	Williamson R V 39478
Wardrop A B 34305			Wien Bundes- anstalt für Pflanzenschutz 34050	Williamson 35789
Wardrop G 39063			Wiese A C 38051	W T H 38568
Ware R R 39002			Wiese A C 38064	Willman J P 38054
Warmke H E 33875			Wiese W F G 35952	Willson F S 37962
Warne B 38317				Willson R W 40522
Warren B C S 38905				Willmot-Ware E V 36128
Warren R 37961				Wilshaw R G H 34754



	Item		Item		Item		Item		Item
Wilssens A	40049	Wisconsin	39944	Wright C E	40438	Young H J	38115	Zhurukhin F A	39139
Wilt H S	4136	Dept of Agri-		Wright J M	34414	Young H P	39825	Ziegler H	36354
Wilten W	34755	culture		Wright J M	38312	Young H P	39966	Ziegler R J	38432
Wilten W	40523	Wisconsin	41135	Wright J M	38313	Young H P	41287	Ziegler R J	38433
Wiltshire G	35455	Governor's		Wright N	37274	Young O L	39065	Ziemba J V	39541
Wiltzer A	10854	Commission on		Wright N	37275	Young P A	33962	Ziemba J V	40441
Winhurst C G	37420	Human Rights		Wright W H	38799	Young P A	34052	Ziemer G L	36074
Wilson A M	41781	Wise G H	37146	Wright W J	41282	Young P A	35592	Zienkiewicz H	35889
Wilson A S B	34936	Wiseman C	36563	Wrigley P I	36368	Young R E	33771	Zierau E	36219
Wilson B	41923	Wiser R B	41085	Wu C C	34959	Youssef A A	34766	Zijl W J van	37525
Wilson C G	35618	Witkus E R	34354	Wu C C	38572	Youssef A A	40239	Zijverden J van	37276
Wilson C M	41949	Witt L	41744	Wu W Y	34969	Ytterborn G R	36133	Zill'berminfs L	39280
Wilson C S	36129	Wittich W	35812	Wulff H D	34355	Yue T F	38188	Zillig H	34054
Wilson E E	40292	Wittich W	36300	Wursten J L	36132	Yuen S H	35763	Zimmer F	37277
Wilson E F	40599	Wittmann H	37147	Wurtz B	36797	Yunker T G	33872	Zimmerly B C	34357
Wilson F C	35453	Wittrock G I	35457	Wussow	37480	Yust H R	38488	Zimmerman H K	39860
Wilson G	38569	Witz W M	38065	Wyatts-Robiette J	34565	Zabin I	34590	Zimmerman	35663
Wilson G	40978	Wolf	37066	Wyant Z N	37990	Zaborovskiy E P	36468	Zimmermann	36572
Wilson G L	34244	Wolf A	39101	Wyckoff S N	36405	Zäch C	34176	Zinchenko G A	35161
Wilson G R	41593	Wolf D	38036	Wye College	41388	Zacharias L	37655	Zinn L G	35984
Wilson H	38495	Wolf G	38659	Dept of Econom-		Zacher F	38573	Zinner J	38142
Wilson H M	36130	Wolf M	38451	ics		Zagurskiy N I	38116	Zischka R	38164
Wilson H van P	35454	Wolfenbarger	38570	Wyllie I	37340	Zafanchkovskiy	36906	Zischka-Winter	38911
Wilson I D	36903	D O		Wyllie J	41388	Zaifsev B D	36406	Zito F	35119
Wilson J G	36131	Wohlenberg	36353	Wyman D	35458	Zajac S	34053	Ziv D	34757
Wilson J L	37145	E T F		Yacowitz H	36768	Zakharchenko	36798	Ziza A	36180
Wilson J M	37064	Wohlfarth	36429	Yacowitz H	37631	I M		Zlatarić C	36470
Wilson J R W	35661	Wolters F A	37326	Yaffa B	40331	Zakharenko M A	40906	Zmiri H	40112
Wilson K	37864	Women's Inter-	41533	Yale University	36396	Zakheim M	38241	Zobl K	34609
Wilson L G	34563	national Zionist		School of Forestry		Zaleskiy I U M	38574	Zocher A	39692
Wilson O B	39003	Organization		Yamafuli K	38941	Zalik S	34519	Zohary M	33791
Wilson R	40454	Wood C A	38797	Yamafuli K	38942	Zalkind F L	34937	Zohary M	33879
Wilson R	40784	Wood F L	37866	Yamafuli K	38943	Zal'tsman L M	40600	Zohary M	34266
Wilson R A S	36904	Wood I D	36073	Yamafuli K	38944	Zande R van der	39066	Zohary M	34358
Wilson R D	34171	Wood J N	37988	Yamafuli K	33766	Zannoni I	35593	Zolotarev V P	35460
Wilson R J	38719	Wood L B	38571	Yang H Y	39768	Zannoni I	39201	Zolotarevsky B	38932
Wilson S V	41816	Woodfield W L	36796	Yang H Y	39769	Zanten E van	35594	Zondler C	39281
Winberg I P	39662	Woodford E K	35662	Yang N C	36444	Zarefskiy B I	39279	Zottner	36907
Windel D	40238	Woodford E K	36467	Yang S L	35691	Zarur J	37867	Zuber M S	34396
Windham S L	35589	Woodforde A H	34756	Yarnell S H	35591	Zasyplin P A	41136	Zucca J J	34359
Wing A S	35456	Woodhead C E	34174	Yarwood C E	34175	Zelitch I	34608	Zuckerman S	40050
Wingard S A	34172	Woodin M D	40403	Yarwood C E	34356	Zeller A	41947	Zuev I U S	40880
Winkelmann	35087	Woodle H A	35983	Yates W	41680	Zeller J	38138	Zuev S	39290
Winkelmann	35088	Woodman R M	35028	Yates W W	38720	Zelter	36799	Zühlke S	36280
Winkelmann A	34173	Woodroffe G E	38163	Yates W W	38721	Zelter S Z	36800	Zühlke S	36407
Winkelmann H A	40874	Woodroffe G E	38910	Yeager C	40708	Zemlansky J	38722	Zunker M	36908
Winkler E C	38714	Woodroof J G	40378	Yeager J H	41369	Zenari S	33790	Zurich Uni-	33772
Winlund E S	36626	Woods G	40111	Yen P C	35736	Zerban F W	39467	versität	
Winnigstedt R	37065	Woods J B Jr	36279	Yepes M L	38145	Zerban F W	40979	Botanischer	
Winsor H W	35761	Woods R	41782	Yerington A P	38177	Zhadin I I	37481	Garten	
Winter A G	34564	Woodward G O	36068	Yocum C S	34566	Zharkov V	39272	Zörn F	35664
Winter A R	37865	Woodward R O	35762	Yoder H	35459	Zheleznafak P G	38068	Zörn F	35665
Winter A R	40822	Woodward T E	38798	Yohe R S	38067	Zheligovskiy V A	41903	Zuur A J	41283
Winterberg S H	35746	Woodworth C M	34652	Yohe R S	39824	Zhgenti N M	39770	Zweede A K	40399
Winters E	35948	Woolsey L D	37548	Yohe R S	41362	Zhugina E	37341	Zwintzsch M	35089
Winters L M	36698	Worden A N	38066	Yorke C R	41370	Zhukov G	40709	Zygmunt W A	33773
Winters L M	38023	Work P	35590	Yorke L C	37874	Zhukovskiy D I	40440		
Wirth W W	38658	Work P	41594	Yoshihara F	41408	Zhuravlev D M	38139		
Wischhusen J F	36795	World Health	38472	Yoshihara F	38943	Zhurbin A I	36469		
Wisconsin Con-	35853	Organization		Youard G B	39116	Zhurukhin F A	39130		
servation Dept		Wortham R W	36642	Young D W	35620				
Wisconsin	36905	Jr		Young D W	35621				
Dept of Agri-		Worthington J	37654	Young F E	40439				
culture		Wozniak D F	41912						
		Wren W G	35717						
		Wrenshall C L	39945						

















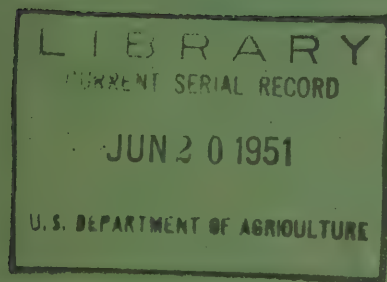


471  
613  
54

# BIBLIOGRAPHY OF AGRICULTURE



U.S. DEPARTMENT  
OF AGRICULTURE  
LIBRARY





The subject index for volume 15 of the Bibliography of Agriculture will appear as number 12 of volume 15, the issue of December 1951.

Abbreviations used in this publication are from the United States Department of Agriculture Bibliographical Bulletin 12, List of Serials Currently Received in the Library of the United States Department of Agriculture, November 1, 1949. June 1950.

Call numbers following the citations are those of the United States Department of Agriculture Library. Please use them when requesting publications on loan from the Library.

Except for printed publications of the Department of Agriculture which are usually available in limited supply for free distribution, the publications listed herein are not available for free distribution from the Department. However, photoprint or microfilm copies of any publication listed may be obtained from the Library. Copying charges for each periodical article or book are:

**MICROFILMS:**

\$1.00 for each 50 pages or fraction thereof from a single article or book.

**PHOTOPRINTS:**

\$1.00 for each 10 pages or fraction thereof from a single article or book.

**ALL CHARGES ARE CASH WITH ORDER.** (Only Federal agencies are exempt.)

Enclose payment in cash, library coupon, check, or money order drawn to the Treasurer of the United States.

**LIBRARY COUPONS**—United States Department of Agriculture Library coupons valued at \$1.00 each may be ordered in any quantity.

The printing of this publication has been approved by the Director of the Bureau of the Budget. (Jan. 11, 1950).



UNITED STATES DEPARTMENT OF AGRICULTURE  
LIBRARY

BIBLIOGRAPHY OF AGRICULTURE

Vol. 15

June 1951  
Items 41950-49145

No. 6

CONTENTS

	Item		Item		Item
Plant Science	41950-43706	Soil Management	43920	Seasoning, Conditioning and	
Systematic and Geographic		Soil Fertility	43946	Finishing	44583
Botany	41994	Tilth and Tillage	44090	Wood Preservation and Damage	
Spermatophytes	42011	Drainage, Irrigation, Water			44588
Pteridophytes	42093	Supply, etc.	44106	Forest Products	44593
Bryophytes	42095	Erosion and Control	44183	Lumber and Rough Products	
Algae	42113	Sanitation	44222		44599
Fungi and Lichens	42122	Materials for Soil Improvement		Building Construction	44602
Pathology	42146		44229	Veneers, Plywood and	
Fungus Diseases	42228	Primary Materials	44233	Adhesives	44605
Bacterial Diseases	42341	Secondary and Minor Element		Furniture	44624
Virus Diseases	42356	Materials	44236	Containers	44626
Nematodes	42382	Mixed Fertilizers and Fertilizer		Pulp and Paper	44629
Ecology	42391	Technology	44237	Chemical Products and	
Morphology, Anatomy, and		Fertilizer Statistics	44242	Distillates	44653
Cytology	42421	Mineral Soil Amendments	44251	Naval Stores	44662
Genetics	42487	Manures and Composts	44254	Other Forest Products	44665
Physiology	42550	Forestry	44267-44693	Wood Technology	44676
Biochemistry	42768	General	44267	Properties and Structure	44690
Field Crops	42791	Education	44279	Animal Industry	44694-45806
Cereals	42814	Policies, Programs, Administra-		Breeds and Breeding	44694
Fiber Crops	42896	tion	44283	Feeds and Feeding	44706
Forage and Grasses	42925	Legislation and Taxation	44317	Veterinary Medicine	44763
Oil Crops	43017	Description and Resources	44326	Miscellaneous	44882
Sugar Crops	43032	Individual Genera	44348	Cattle	44907
Tobacco	43044	Forest Management and Finance		Breeds and Breeding	44907
Horticultural Crops	43054		44371	Feeds and Feeding	44998
Fruits	43087	Farm Woodlands	44393	Veterinary Medicine	45057
Citrus and Subtropical	43113	Mensuration	44402	Miscellaneous	45179
Deciduous	43140	Aerial Surveying and Photog-		Dogs and Cats	45220
Small	43178	raphy	44412	Breeds and Breeding	45220
Nuts	43242	Silviculture	44413	Feeds and Feeding	45233
Shade Trees and Ornamental		Silvicultural Practices	44436	Veterinary Medicine	45235
Plants	43257	Seeding and Planting	44452	Miscellaneous	45281
Vegetables	43436	Forest Protection and Damage		Fur Animals - Pen Raised	45290
Weeds and Poisonous Plants	43552		44495	Breeds and Breeding	45290
Miscellaneous	43667	Fire	44499	Feeds and Feeding	45294
Soils and Fertilizers	43707-44266	Forest Influences	44509	Veterinary Medicine	45300
Soil Science	43707	Miscellaneous Forest Uses	44517	Miscellaneous	45309
Soil Physics	43720	Forest Industries	44521	Horses and Mules	45320
Soil Chemistry	43751	Lumbering	44539	Breeds and Breeding	45320
Soil Biology	43831	Lumbering Equipment	44544	Feeds and Feeding	45349
Soil-Plant-Animal Relation-		Logging	44552	Veterinary Medicine	45353
ships	43856	Sawmills	44566	Miscellaneous	45397
Soil Genesis, Formation, Classi-		Processing and Woodworking		Poultry	45411
fication, and Mapping	43866		44573	Breeds and Breeding	45411

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.  
\$6.00 per year, domestic; \$8.00 per year, foreign. Single copies vary in price.



	Item		Item		Item
Feeds and Feeding	45446	Utilities	46878	Seeds	48108
Veterinary Medicine	45487	Electricity and Electrification	46878	Sugar and Sirups	48121
Miscellaneous	45549		46878	Tobacco	48157
Rabbits	45624	Heating, Lighting, and Radiation	46890	Miscellaneous	48173
Breeds and Breeding	45624		46890	Agricultural Economics and Rural	
Feeds and Feeding	45637	Power Plants, Motors and		Sociology	48188-48940
Veterinary Medicine	45639	Engines	46894	Agricultural Finance	48208
Miscellaneous	45650	Sewage and Waste Disposal	46897	Credit	48215
Sheep and Goats	45655	Telephones	46898	Income	48256
Breeds and Breeding	45655	Water Supply	46899	Inflation	48258
Feeds and Feeding	45675	Agricultural Products: Processing,		Insurance	48259
Veterinary Medicine	45684	Distribution, and Statistics	46903-	Taxation	48274
Miscellaneous	45717		48187	Agricultural Labor and Wages	
Swine	45727	Analysis and Composition	46919		48294
Breeds and Breeding	45727	Consumption, etc.	46940	Agriculture - Situation, Policies,	
Feeds and Feeding	45743	Distribution, etc.	46950	and Programs	48324
Veterinary Medicine	45767	Grading, etc.	46990	Subsidies	48444
Miscellaneous	45793	Packing and Packaging	47013	Cost and Standard of Living	48448
Entomology	45807-46561	Prices, etc.	47020	Farm Management and Land	
General - Economic	45822	Processing and Storage	47042	Economics	48450
Apiculture and Apis Mellifera		Statistics	47083	Bookkeeping and Records	48520
	45943	Beverages and Condiments	47094	Costs and Returns	48524
Arachnida, etc.	46118	Dairy Products	47169	Land Settlement and Colonization	
Coleoptera	46172	Analysis and Composition	47221		48573
Diptera	46261	Consumption, etc.	47254	Land Tenure	48575
Culicidae	46335	Distribution, etc.	47256	Land Utilization	48602
Hemiptera	46349	Grading, etc.	47278	Land Values, etc.	48611
Hymenoptera	46395	Packing and Packaging	47296	Population	48617
Lepidoptera	46424	Prices, etc.	47301	Rural Social Organization	48626
Orthoptera	46506	Processing and Storage	47313	Human Ecology	48639
Sericulture and the Silkworm	46523	Statistics	47370	Institutions	48650
Smaller Orders	46527	Feed and Forage Crops	47372	Leadership	48730
Agricultural Engineering	46562-	Fibers and Textiles	47393	Rural Organizations and	
	46902	Fruits, Vegetables, and Nuts	47528	Movements	48734
General and Miscellaneous	46562	Analysis and Composition	47563	Rural Social Psychology	48889
Machines and Equipment	46576	Consumption, etc.	47577	Trade, Foreign and International	
Animal Husbandry	46636	Distribution, etc.	47583		48893
Cultivation and Tillage	46652	Grading, etc.	47600	Food and Human Nutrition	48941-
Fertilizer and Seed Distributors		Packing and Packaging	47618		49016
	46662	Prices, etc.	47626	Food Habits	48997
Harvesting	46672	Processing and Storage	47630	Nutritive and Vitamin Content	
Land Clearing Equipment	46698	Statistics	47686		49001
Processing Equipment Used on		Grain and Grain Products	47695	Miscellaneous	49017-49145
the Farm	46699	Honey and Beeswax	47771	History and Biography	49052
Repair, Maintenance, and Con-		Livestock and Livestock Products		Home Management	49094
struction	46727		47794	International Relations	49102
Spraying and Dusting	46735	Analysis and Composition	47838	Meteorology	49106
Vehicles	46751	Consumption, etc.	47847	Personnel	49119
Structures and Rural Housing	46809	Distribution, etc.	47851	Research	49120
Animal Shelters and Service		Grading, etc.	47882	Statistics	49140
Buildings	46814	Prices, etc.	47892		
Farmhouses and Farmsteads		Processing and Storage	47904	U. S. D. A. Publications	p. 150
	46844	Statistics	47936	State Agr. Expt. Sta. Publications	
Greenhouses and Plant Service		Oils and Oilseeds	47939		p. 156
Buildings	46857	Poultry and Poultry Products		State Agr. Ext. Serv. Publications	
Storage Structures	46862		48018		p. 160
Walls and Fences	46876	Rubber and Rubber Substitutes	48094	AUTHOR INDEX	p. 165

The printing of this publication has been approved by the Director of the Bureau of the Budget. (Jan. 11, 1950)



## PLANT SCIENCE

## GENERAL

- 41950 AMICO, A. Methodologic considerations on the historical botanical study of Puglia. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:721-724. 1949. 450 N92
- 41951 ARESES VIDAL, R. Contribución al conocimiento de las plantas exóticas cultivadas en España. *Montes* 36:704-709. (Concl.) Nov./Dec.1950. 99.8 M763 Short notes on botanists.
- 41952 AUBERT, S. Plantes forestières menacées. *Schweiz. Natenschutz* 17:28-29. Feb.1951. 279.8 Sch9
- 41953 BARTLETT, H. H. Fernald as a reviser of Gray's manual. *Rhodora* 53:44-55. Feb.1951. 450 R34
- 41954 BERG, L. S. On botanical nomenclature and on the concept of a species among botanists. (In Russian.) *Priroda* 39(9):30-33. Sept.1950. 410 P933
- 41955 BODLAENDER, K. B. A. Palaeobotanical investigations in the vicinity of the Sneeker Meer (Province of Friesland, the Netherlands). *Rec. des Trav. Bot. Néerland.* (1949/50)42:51-64. Ref. Dec.1950. 451 N28R
- 41956 BOUREAU, E. Etude paléoxylologique du Sahara. VIII. Sur un échantillon de Mesembryoxylon aegyptiacum (Krausel) Boureau, n. comb., Podocarpacée découverte au sud de Toummo (Sahara Oriental). *Paris. Mus. Natl. d'Hist. Nat. B.* (ser.2)22:411-419. May 1950. 410.9 P213
- 41957 CONRADI, R. R. Flowers and plants as inspiration in art and poetry. (In Norwegian.) *Gartneryrket* 40:859-862. Dec.20,1950. 80 G1938
- 41958 DAEPP, H. P. Neue nomenklatur-bestimmungen; bericht vom 7. Internationalen Botaniker-Kongress, Sektion Nomenklatur in Stockholm im Juli 1950. *Gärtnermeister* 54:1-3. Jan.5,1951. 80 G1939
- 41959 ENLUND, O. W. Photographing spring blossom. *Amateur Photog.* 101:330-331. Apr.4,1951. 332.8 Am12
- 41960 FÄGGRI, K., and IVERSEN, J. Text-book of modern pollen analysis. Copenhagen, Munksgaard, 1950. 168 p. 402.1 F12
- 41961 FAULKNER, R. P. An introduction to plant life. London, Collingridge, 1950. 120 p. 463 F2721
- 41962 FIORINI, L. Fabulous ancestors. (In Italian.) *Riv. Ital. Essenze-Profumi-Piante Officinali-Olii Veg.*-Saponi 32:603. Dec.15,1950. 308.8 R52 Nepenthes.
- 41963 GAVARRON, F. F. Propiedades antibioticas del acido tánico obtenido de la cascara de granada (Punica granatum). *Ciencia* 10:285-286. Dec.20,1950. 475 C48
- 41964 GILMORE, A. E. Photography of orchard trees. *Amer. Soc. Hort. Sci. Proc.* 56:242-247. Dec. 1950. 81 S012
- 41965 GOIDANICH, G., and CAMICI, L. A case of metachromasy. (In Italian.) *Stad. di Patol. Veg. B.* (ser.3) 6:31-44. 1948, pub. 1950. 464.9 R662 English summary.
- 41966 GOTTSCHO, S. H. Photographing wildflowers. *U. S. Camera* 14(5):47-62. May 1951. 332.8 Un3A
- 41967 GRISCOM, L. Fernald in the field. *Rhodora* 53:61-65. Feb.1951. 450 R34
- 41968 GUENNEL, G. K. History of forests in the Glacial Lake Chicago area. (Abs.) *Ind. Acad. Sci. Proc.* (1949)59:43-44. 1950. 500 In2 Pollen analysis.
- 41969 HARNED, R. L., and others. A new crystalline antibiotic from an unidentified Streptomyces. (Abs.) *Ind. Acad. Sci. Proc.* (1949)59:38. 1950. 500 In2
- P. H. Hidy, C. J. Corum, and K. L. Jones, joint authors.
- 41970 HAYREN, E. Botaniska anteckningar från Raumo skärgård [Botanical note from the Raumo archipelago]. *Finska Vetensk. Soc. Bidr. till Känn. af Finlands Natur och Folk* 93(6), 23 p. 1950. 511 H36B
- 41971 ĬAKUBOVSKAĬA, T. A. On new findings in the Sarmatian flora in Moldavia. (In Russian.) *Bot. Zhur.* 35: 527-529. Ref. Sept./Oct.1950. 451 R929 Paleobotany.
- 41972 İNO, S. Shokubutsu no hassel [Origination of plants]. Tokyo, Kawade Shobo, 1950. 237 p. 463.3 In7
- 41973 KIRPICHNIKOV, M. Ĭ., and KUPRIĬANOVA, L. A. Morphologo-geographic and palynological data for the study of genera of the subtribe Gnaphaliinae. (In Russian.) *Akad. Nauk SSSR. Bot. Inst. Trudy. Ser. 1. Flora i Sistem. Vysshikh Rast.* 9:7-37. Ref. 1950. 451 Sa21
- 41974 LAUTENSACH, H. Klima und pflanzenkleid. *Maderas im wandel der jahreszeiten.* Kosmos 47:27-32. Jan.1951. 474 K842
- 41975 LEOPOLD, L. B. Vegetation of southwestern watersheds in the nineteenth century. *Geog. Rev.* 41:295-316. Apr.1951. 500 Am35G
- 41976 LESSE, H. DE. Notes zoologiques et botaniques sur l'ouest du Groenland. *Expéditions polaires françaises (Missions P. E. Victor).* Terre et la Vie 97: 175-201. Ref. Oct./Dec.1950. 410.9 P21
- 41977 LONA, F. Prehistoric floristic study of the Asiago Plateau. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.) 56:667-669. 1949. 450 N92 English summary.
- 41978 LONA, F. Preliminary note on pollen studies in the Padana Plain. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:675-677. 1949. 450 N92 English summary.
- 41979 MONTELUCCI, G. A tertiary subtropical plant association in the glacial deposits on the Tivoli Hills? (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:697-699. 1949. 450 N92
- 41980 PALMER, C. M. The botanists of India and Pakistan. (Abs.) *Ind. Acad. Sci. Proc.* (1949)59:47. 1950. 500 In2
- 41981 PICHI-SERMOLLI, R. The collection sent by I. Pavon to F. B. Webb and kept in the Webb Herbarium. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:699-701. 1949. 450 N92
- 41982 PLANQUE, B. A. DE. A palynological study of the Holocene and late-glacial in south-east Friesland (the Netherlands). *Rec. des Trav. Bot. Néerland.* (1949/50)42:40-50. Ref. Dec.1950. 451 N28R
- 41983 ROLLINS, R. C. Fernald as a botanist. *Rhodora* 53:56-61. Feb.1951. 450 R34
- 41984 SCHEMEL, M. P. Cretaceous plant microfossils from Iowa. *Amer. J. Bot.* 37:750-754. Nov.1950. 450 Am36
- 41985 SHARP, A. J. The relation of the Eocene Wilcox flora to some modern floras. *Evolution* 5:1-5. Ref. Mar.1951. 443.8 Ev62
- 41986 SMOL'ĬANINOVA, L. A., and GOLUBKOVA, V. F. In regard to methods of pollen analysis. (In Russian.) *Akad. Nauk SSSR. Dok.* 75:125-126. Ref. Nov.1,1950. 511 P444A
- 41987 STEWART, W. N., FULLER, H. J., and TIPPO, O. Laboratory manual for general botany. New York, Holt, 1950. 62 p. 463.1 S14
- 41988 THOMPSON, R. C. A dictionary of Assyrian botany, edited by C. J. Gadd. London, Brit. Acad., 1949. 405 p. 460.17 T37
- 41989 TIKHOMIROV, B. A. Study of vegetative cover of the mammoth period on Taimyr. (In Russian.) *Bot. Zhur.* 35:482-497. Ref. Sept./Oct.1950. 451 R929 Paleobotany.
- 41990 TRAUB, H. P. Pure arabinates as ingredients in direct stain-mountants. *Plant Life* 7:155-157. 1951. 450 P695
- 41991 TRITENBACH, P. Arbor day—past, present and future. *Pacific Coast Nurseryman* 10(2):15. Feb. 1951. 80 P116
- 41992 WALSH, L. B. Botanists in Sweden. *Turtax News* 29:42-44. Feb.1951. 442.8 T86 Seventh International Botanical Congress.
- 41993 YUASA, A. Shokubutsugaku gairon [Outline of botany]. Tokyo, Baifukan, 1950. 352 p. 463 Y9

## SYSTEMATIC AND GEOGRAPHIC BOTANY

## General

- 41994 BROWN, W. H. Useful plants of the Philippines, v. 1. Philippines. Dept. Agr. & Com. Tech. B. 10, 590 p. 1950. 25 P533T
- 41995 CIZIK, B. Important plants in the Negev. 4. (In Hebrew.) *Hassadeh* 31:193-194. Jan.1951. 26 H27
- 41996 GATES, R. R. The taxonomic units in relation to cytogenetics and gene ecology. *Amer. Nat.* 85:31-50. Ref. Jan./Feb.1951. 470 Am36
- 41997 GROSSGEIM, A. A. Flora Kavkaza [Flora of the Caucasus], v. 4. Ed. 2, rev. and enl. Moskva, AkademiĬa Nauk SSSR, 1950. 311 p. 459.2 G91F
- 41998 İNDIANA plant distribution records, X. 1949. *Ind. Acad. Sci. Proc.* (1949)59:48-52. 1950. 500 In2



- 41999 IUDIN, I. P. Description of vegetation of Shchugora and Podcherema river basins (Northern Urals). (In Russian.) Bot. Zhur. 35:522-526. Sept./Oct. 1950. 451 R929
- 42000 JACQUES-FÉLIX, H. Les flores d'Afrique Tropicale. IV. Des rapports entre collecteurs et botanistes. Agron. Trop. 6:54-57. Jan./Feb. 1951. 26 Ag86
- 42001 JELENC, F. Contributions à l'étude de la flore et de la végétation bryologiques nord-africaines. 1. Soc. d'Hist. Nat. de l'Afrique du Nord. B. 40:198-207. Nov./Dec. 1949, pub. 1950. 410.9 So125
- 42002 KENT, D. H. Tothill Fields, Westminster: a lost botanical area. London Nat. (1949)29:3-6. Ref. 1950. 420 L843
- 42003 LLENSA DE GELCEN, D. S. Recuerdos botánico-forestales de tres recientes excursiones por tierras catalanas. Esc. de Peritos Agr. y de Especialidades Agropecuarias y Serv. Téc. de Agr. An. 8:177-226. 1949. 105.6 B233
- 42004 MALÝ, K., and BJELČIĆ, Z. Ein Beitrag zur Kenntnis der flora von Dobrun bei Višegrad. (In Croatian.) Biol. Inst. God. 2:1-16. 1949, pub. 1950. 442.9 Sa73  
German summary.
- 42005 MALÝ, K. Miscellanea botanica. (In Croatian.) Biol. Inst. God. 2:17-19. 1949, pub. 1950. 442.9 Sa73
- 42006 MASON, R., MOAR, N. T., and COOPER, R. New plant localities in the Auckland Province. Auckland Inst. & Mus. Rec. 4:83-92. Dec. 20, 1950. 514 Au22R
- 42007 PORSILD, A. E. Plant life in the Arctic. Canad. Geog. J. 42:120-145. Ref. Mar. 1951. 470 C162
- 42008 PRAEGER, R. L. Our changing flora. Irish Nat. J. 10:89-93. Oct. 1950. 410 Ir42
- 42009 SABARDINA, G. S. Geobotanical investigation of natural meadows of Latvian SSR. (In Russian.) Bot. Zhur. 35:556-559. Sept./Oct. 1950. 451 R929
- 42010 ZODDA, G. New studies on the Teramana flora. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:701-702. 1949. 450 N92
- Spermatophytes
- 42011 AMELINCKX, F. Crataegus lavalleei Herincq. (syn. Crataegus carrierei Vauvel.) (In Flemish.) Cult. en Handel 17:108. Feb. 1951. 80 C892
- 42012 AMSHOFF, G. J. H. Notes on Gulana Myrtaceae. III. Rec. des Trav. Bot. Néerland. (1949/50)42:1-27. Dec. 1950. 451 N28R  
New species in: Marilerea, Aulomyrcia, Plinia, and Eugenia.
- 42013 ANDREWS, F. W. The flowering plants of the Anglo-Egyptian Sudan, v. 1. Arbroath, Scot., Buncle, 1950. 237 p. 460.45 An2
- 42014 ANTHONY, M. S. An ecologic and systematic analysis of the genus Opuntia Miller in the Big Bend region of Texas. Mich. U. Microfilm Abs. 11:27-28. 1951. 241.8 M58
- 42015 ARNOLD, R. E. Spathoglottis. Orchid Rev. 59:43-44. (Cont.) Mar. 1951. 80 Or15
- 42016 BEAN, R. C., KNOWLTON, C. H., and HILL, A. F. Tenth report of the Committee on Plant Distribution. Rhodora 53:79-89. Mar. 1951. 450 R34  
Araceae-Orchidaceae, omitting Juncaceae.
- 42017 BECHERER, A. Fortschritte in der systematik und floristik der Schweizerflora (gefäßpflanzen) in den Jahren 1948 und 1949. Schweiz. Bot. Gesell. Ber. 60:467-515. 1950. 451 Sch9
- 42018 BEECHER, MRS. F. Orchids native to Vermont. Gard. Club Amer. B. 39(2):12-19. Mar. 1951. 90.32 G16
- 42019 BLAKE, S. F. Tussilago farfara in Maryland. Rhodora 53:93-94. Mar. 1951. 450 R34
- 42020 BONAVENTURA, G. Distribution of Paspalum paspalodes and P. dilatatum. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:648-650. 1949. 450 N92
- 42021 BONAVENTURA, G. Studies on seeds of cultivated plants and weeds. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:742-754. Ref. 1949. 450 N92
- 42022 BRAVO H., H. Iconografía de las Cactáceas mexicanas (primera serie). Cactáceas del norte de Sonora. Mex. Inst. de Biol. An. 21:439-482. 1950. 442.9 M57
- 42023 BRAVO H., H. Notas cactológicas. Mex. Inst. de Biol. An. 21:293-298. 1950. 442.9 M57  
Mexico.
- 42024 CAMUS, A. Parahyparrhenia, genre nouveau d'Andropogonées. Paris. Mus. Natl. d'Hist. Nat. B. (ser. 2)22:404-405. May 1950. 410.9 P213
- 42025 CHARRIER, G. Second addition to "Systematic catalog of the vascular plants growing in the Sangone Basin (Cottian Alps)." (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:476-477. 1949. 450 N92
- 42026 CHEVALIER, A. Les Strophanthus comme plantes toxiques spécialement dans les savanes de l'Afrique Occidentale. Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 30:578-588. Nov./Dec. 1950. 26 R323
- 42027 CHEVALIER, A. Sur quelques Cirrums de l'Afrique Tropicale. Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 30:610-625. Nov./Dec. 1950. 26 R323
- 42028 CHEVALIER, A. Sur un copalier soudanais (Guibourtia vullietiana Chev.) adapté à la vie de savane et confondu avec C. copallifera J. Benn. de la forêt. Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 30:630-633. Nov./Dec. 1950. 26 R323
- 42029 CHEVALIER, A. Trois amaryllidées cultivées en Afrique Tropicale par les noirs. Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 30:625-629. Nov./Dec. 1950. 26 R323
- Hippeastrum, Hymenocallis, and Mizonia n. g.
- 42030 CLELAND, R. E. Some observations on the taxonomy of Oenothera, subgenus Euoenothera in North America. (Abs.) Ind. Acad. Sci. Proc. (1949)59:40. 1950. 500 In2
- 42031 DYER, R. A. A review of the genus Brunsvigia Heist. Plant Life 7:45-64. (Concl.) 1951. 450 P695
- 42032 ERRICO, P. D. On the appearance of Cenchrus tribuloides L. on the coast of Cavallino in the municipality of Venice, and Sottomarina di Chioggia. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:725-726. 1949. 450 N92
- 42033 FRIES, R. E. Three new species of Annonaceae from northern South America. Arkiv f. Bot. (n.s.)1:445-451. 1951. 451 Sv2  
Guatteria conspicua, Xylopia crinita, and Annona tenuipes.
- 42034 FUKAREK, P. Materialien über die geographische verbreitung der panzerkiefer (Pinus heldreichii Christ). (In Croatian.) Biol. Inst. God. 2:21-41. Ref. 1949, pub. 1950. 442.9 Sa73  
German summary.
- 42035 FUKAREK, P. Mitteilungen über die verbreitung von Pinus peuce Grisebach. (In Croatian.) Biol. Inst. God. 2:43-52. Ref. 1949, pub. 1950. 442.9 Sa73  
German summary.  
Distribution in the Balkan Peninsula.
- 42036 FUKAREK, P. Ueber die grenzen des natürlichen vorkommens von Petteria ramentacea (Sieb.) Presl. (In Croatian.) Biol. Inst. God. 2:53-59. Ref. 1949, pub. 1950. 442.9 Sa73  
German summary.
- 42037 GAGNEPAIN, F. Orchidacées nouvelles d'Indochine. Paris. Mus. Natl. d'Hist. Nat. B. (ser. 2)22:396-403. (Cont.) May 1950. 410.9 P213  
New species in Dendrobium, Desmotrichum, Bulbophyllum and Cirrhopetalum.
- 42038 GOLUBKOVA, V. F. In regard to the systematics of the genus Dostostemon Andr. [of Cruciferae]. (In Russian.) Akad. Nauk SSSR. Bot. Inst. Trudy. Ser. 1. Flora i Sistem. Vysshikh Rast. 9:71-106. Ref. 1950. 451 Sa21
- 42039 HAGLUND, G. E. Einige Taraxaca aus der Schweiz. Schweiz. Bot. Gesell. Ber. 60:231-243. 1950. 451 Sch9
- 42040 HALL, H. Caralluma mammillaris, N.E.Br. Cactus & Succulent J. Gt. Brit. 13:5. Jan. 1951. 450 C113
- 42041 HAUMAN, L. Sur quelques Cappariaceae d'Afrique Tropicale. Brussels. Jard. Bot. de l'État. B. 20:191-196. Dec. 1950. 451 B83B  
Includes new species in Capparis and Boscia.
- 42042 HEISER, C. B., JR. A comparison of the flora as a whole and the weed flora of Indiana as to polyploidy and growth habits. Ind. Acad. Sci. Proc. (1949)59:64-70. Ref. 1950. 500 In2
- 42043 HILDEBRAND, F. H. Verbeterde boomnamenlijst van Celebes. Revised list of treespecies, collected in Celebes. Indonesia. Bosbouwproefsta. Vlugsch. 43, 105 p. Dec. 1950. 99.9 Ea72R  
English summary.
- 42044 HOTCHKISS, N. Range extensions of marsh and aquatic plants. 2. Rhodora 53:91-93. Mar. 1951. 450 R34
- 42045 HUGHES, R. H. Observations of cane (Arundinaria) flowers, seed, and seedlings in the North Carolina coastal plain. Torrey Bot. Club. B. 78:113-121. Ref. Mar./Apr. 1951. 451 T63B



- 42046 JÄNSE, J. A. Notes on Euphorbias. III. Cactus & Succulent J. Gt. Brit. 13:4. Jan.1951. 450 C113
- 42047 KELSEY, S. L. Shortia—a plant saga. Horticulture 29:94-95. Mar.1951. 80 H787
- 42048 KENNEDY, K. Australian orchids. Orchid Rev. 59:40-41. (Cont.) Mar.1951. 80 Or15
- 42049 KENT, D. H. *Herniaria glabra* L. in Middlesex. London Nat. (1949)29:6-7. 1950. 420 L843
- 42050 KUPRIĀNOVA, L. A. Systematic survey of *Linaria* of U.S.S.R. (In Russian.) Akad. Nauk SSSR. Bot. Inst. Trudy. Ser. 1. Flora i Sistem. Vysshikh Rast. 9:38-70. 1950. 451 Sa21
- 42051 LEBACQ, L., and ISTAS, J. R. Les bois des Méliacées du Congo Belge. Mus. du Congo Belge. Ann. Sci. Hist. et Econ. 2:127 p. 1950. 515 M97
- 42052 LEONARD, J. Notulae systematicae. VIII-IX. Brussels. Jard. Bot. de l'Etat. B. 20:227-231, 269-284. Dec.1950. 451 B83B
- VIII, Pittosporaceae et Caesalpinaceae-Amherstieae Congolanae novae; IX, Nouvelles observations sur le genre Guibourtia (Caesalpiniceae). Includes a new species in *Crudia*.
- 42053 LORITO, F. Notes on the dissemination of Leguminosae in the Parco del Conte near Ruvo di Puglia. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:716-718. 1949. 450 N92
- 42054 LOUSLEY, J. E. Botanical records for 1949. London Nat. (1949)29:8-14. 1950. 420 L843
- 42055 MCDOWELL, G. W. Three additions to the flora of Georgia from the Blue Ridge Mountains. Castanea 16:18. Mar.1951. 450 So82
- 42056 MANSFELD, R. Das morphologische system des saatweizens, *Triticum aestivum* L. s. 1. Züchter 21:41-60. Ref. 1951. 442.8 Z8
- Includes: Synonymie und geographische verbreitung der varietäten, p.43,49-58; Bestimmungsschlüssel der varietäten von *Triticum aestivum* L. em (incl. T. compactum Host), p.44-48.
- 42057 MARTÍNEZ, M. *Euonymus mexicanus* Benth. Mex. Inst. de Biol. An. 21:279-284. 1950. 442.9 M57
- 42058 MARTÍNEZ, M. *Libocedrus decurrens* Torr. Mex. Inst. de Biol. An. 21:285-291. 1950. 442.9 M57
- 42059 MATTOS, J. R. *Mimosa bracingata*. (In Portuguese.) Lav. Arroz. 4(48):27,29. Dec.1950. 59.8 L39
- 42060 MATUDA, E. Estudio de las plantas de Chiapas. VIII. Marantáceas de Chiapas. Mex. Inst. de Biol. An. 21:319-343. Ref. 1950. 442.9 M57
- Includes new species in *Calathea*.
- 42061 MEROLA, A. On the occurrence of *Paspalum dilatatum* Poir. in southern Italy. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:684-687. 1949. 450 N92
- 42062 MIRANDA, F. Algunas novedades de la flora de Chiapas. Mex. Inst. de Biol. An. 21:299-308. 1950. 442.9 M57
- New species in *Grajalesia* n.g. (Nyctaginaceae), *Conzattia*, *Euphorbia*, and *Chiococca*.
- 42063 MIRANDA, F. *Fouquieria fasciculata* y dos nuevas gamopetalas de México. Mex. Inst. de Biol. An. 21:309-317. 1950. 442.9 M57
- New species in *Salvia* and *Chilanthanthemum*.
- 42064 MOLDENKE, H. N. Amaryllid genera and species. Plant Life 7:78-82. 1951. 450 P695
- 42065 MONTELUCCI, G. Lazio botanical studies. IV. *Bupleurum gracile* DC var. *rollii*, var. nov. 1 new species for the Italian flora. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:693-697. 1949. 450 N92
- 42066 PALMER, E. Mystery of the thorn tree without a name. Veldtrust 11(11):14,31. Nov.1950. 56.8 V54
- Acacia litakunensis*.
- 42067 PAVARI, A. Note on *Acer lobelii* Ten. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:535-556. Ref. 1949. 450 N92
- English summary.
- 42068 PILLANS, N. S. A revision of *Agathosma*. J. So. African Bot. 16:55-183. Apr./Oct.1950. 450 J8262
- 42069 PIOVANO, G. *Trifolium basileianum* Chiov.: its systematic position and distribution in Africa. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:472-474. 1949. 450 N92
- 42070 PUCCINI, G. Again on *Paspalum distichum* L. var. *paspalodes* Thell. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:724-725. 1949. 450 N92
- 42071 RANDOLPH, L. F., and HERNANDEZ-XOLO-COTZI, E. Cytotaxonomic diversity of *Tripsacum* in Mexico. (Abs.) Genet. Soc. Amer. Rec. 19:120. 1950. 442.9 G28
- 42072 RASIN'SH, A. P. *Ambrosia psilostachya* DC. in the territory of Latvian SSR. (In Russian.) Bot. Zhur. 35:516-520. Ref. Sept./Oct.1950. 451 R929
- 42073 RECHINGER, K. H. Zur flora von Cypern (Reliquiae Samuelssonianae II). Arkiv f. Bot. (n.s.)1:413-436. 1951. 451 Sv2
- Includes *Campanula cypria* n. sp.
- 42074 REYNOLDS, G. W. The aloes of South Africa. Johannesburg, Aloes South Africa Book Fund, 1950. 520 p. 460.46 R33
- 42075 RINALDI, A. *Rhus cotinus* L. and *Rhus coriaria* L. in the high valley of Chienti (Macerata). (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:733-734. 1949. 450 N92
- 42076 RIZZINI, C. T. *Struthanthi Brasiliae* eiusque vicinorum. Rev. Bras. de Biol. 10:393-408. Dec.1950. 442.8 R326
- 42077 ROBYNS, W., and WILCZEK, R. Contribution à l'étude du genre *Beilschmiedia* de l'Afrique Tropicale. Brussels. Jard. Bot. de l'Etat. B. 20:197-226. Dec.1950. 451 B83B
- 42078 ROSE, F. Botanical records for Metropolitan Kent, 1942-1949. London Nat. (1949)29:15-20. 1950. 420 L843
- 42079 ROYCE, R. D. Some orchids of western Australia. Austral. Orchid Rev. 15:95-98. Dec.1950. 80 Au73
- 42080 SCHNELL, R. Notes et observations sur livers *Strophanthus* d'Afrique Occidentale. Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 30:588-603. Nov./Dec. 1950. 26 R323
- 42081 STAFLEU, F. A. A new *Trigonotis* from Suriname. Rec. des Trav. Bot. Néerland. (1949/50)42:70. Dec.1950. 451 N28R
- T. copenamensis*.
- 42082 STEYAERT, R. L. Note sur des *Cassia* africains et asiatiques de la section *Chamaecrista* avec description de nouvelles espèces. Brussels. Jard. Bot. de l'Etat. B. 20:233-268. Dec.1950. 451 B83B
- 42083 STORY, R. New distribution records for *Ocotea bullata* E. Mey. and *Lachnophyllis floribunda* (BTH.) C.A. SM. with an account of an insect pest of the stinkwood. So. African J. Sci. 47:190-198. Ref. Feb.1951. 515 So84
- A psillid.
- 42084 SUMMERHAYES, V. S. New orchids from Africa. Harvard U. Bot. Mus. L. 14:215-239. Mar.13, 1951. 451 H262
- 42085 SUMMERHAYES, V. S. A revision of the genus *Angraecopsis*. Harvard U. Bot. Mus. L. 14:240-261. Mar.13, 1951. 451 H262
- 42086 SWART, J. J. A new *Protium* from Suriname. Rec. des Trav. Bot. Néerland. (1949/50)42:71. Dec.1950. 451 N28R
- 42087 TRAUB, H. P. Amaryllid notes. Plant Life 7:41-43,40. 1951. 450 P695
- Includes new genera: *Moldenkea* and *Sanmartina*
- 42088 TRAUB, H. P. New South American Amaryllids. Plant Life 7:27-38. 1951. 450 P695
- Includes new species in: *Amaryllis*, *Eucharis*, *Stenomesson*, and *Zephyranthes*.
- 42089 TROUPIN, G. Contribution à l'étude systématique de *Berlinia* Soland. et genres voisins (Caesalpinaceae - Amherstieae). Brussels. Jard. Bot. de l'Etat. B. 20:285-324. Dec.1950. 451 B83B
- 42090 VASIL'CHENKO, I. T. Seedlings of trees and shrubs of U.S.S.R. (In Russian.) Akad. Nauk SSSR. Bot. Inst. Trudy. Ser. 1. Flora i Sistem. Vysshikh Rast. 9:107-332. Ref. 1950. 451 Sa21
- Key to their systematic identification.
- 42091 VASIL'EV, V. N. Far-Eastern firs [*Picea*] section *Omorica* Wilkm. (In Russian.) Bot. Zhur. 35:498-511. Ref. Sept./Oct.1950. 451 R929
- 42092 WILCZEK, R. Note sur quelques *Capparidaceae* nouvelles du Congo Belge. Brussels. Jard. Bot. de l'Etat. B. 20:181-190. Dec.1950. 451 B83B

#### Pteridophytes

- 42093 BLOOM, W. W. The Pteridophytes of the Valparaiso moraine of Porter County, Indiana. Ind. Acad. Sci. Proc. (1949)59:53-57. Ref. 1950. 500 In2



42091 DES ABBAYES, H., ALSTON, A. H. G., and TARDIEU-BLOT, M. L. Contribution à la flore des Pteridophytes d'A.O.F. (Guinée et Côte d'Ivoire). Inst. Franç. d'Afrique Noire. B. 13:79-86. Jan.1951. 515 D14

### Bryophytes

42095 ARNELL, S. *Scapania degenii* and *S. simmonsii* found in the North American continent. *Bryologist* 53:299-300. Dec.1950. 450 B84

42096 ARZENI, C. B. The Hepaticae of the Douglas Lake region, Michigan, including Cheboygan, Emmet, Presque Isle, and Mackinac Counties; an illustrated key for determining the liverworts growing in the Douglas Lake region. *Ann Arbor?* 1950. 30 p. Ref. 461.32 Ar9

42097 BERGHEN, C. VAN DEN. Contribution à l'étude des espèces africaines du genre *Lopholejeunea* (Spruce) Schiffn. Brussels. *Jard. Bot. de l'Etat*. B. 20: 161-179. Ref. Dec.1950. 451 B83B

42098 BONIFACE, R. A. Hepatics of the London Area. *London Nat.* (1949)29:23-27. 1950. 420 L843

42099 CASE, M. E., and MEYER, S. L. Physiological studies on mosses. IX. An analysis of the spore germination pattern in *Physcomitrium turbinatum*. *Bryologist*

42100 CASTLE, H. A revision of the genus *Radula*. II. Subgenus *Acroradula*. Section 2. Amentulosae. *Bryologist* 53:253-275. Dec.1950. 450 B84

42101 CRUM, H. A. Mosses from Honduras. *Bryologist* 53:292-295. Dec.1950. 450 B84

42102 FITZGERALD, J. W. Some Irish liverwort records. *Irish Nat. J.* 10:107. Oct.1950. 410 Ir42

42103 FITZGERALD, R. D. Some Irish moss records. *Irish Nat. J.* 10:108. Oct.1950. 410 Ir42

42104 GAUME, R. Muscinées corticoles des environs de Samoëns (Haute-Savoie). *Paris. Mus. Natl. d'Hist. Nat. B.* (ser.2)22:408-410. May 1950. 410.9 P213

42105 HARVILL, A. M., JR. *Diphyscium cumberlandianum*, a pre-pleistocene relic with paleotropical affinities. *Bryologist* 53:277-282. Ref. Dec.1950. 450 B84

42106 HARVILL, A. M., JR. The mosses of King Cove, Lawrence County, Alabama. *Castanea* 16:19-22. Ref. Mar.1951. 450 S082

42107 LAWTON, E. Bryophytes of the Beaver Lake Region of New Jersey. *Torrey Bot. Club. B.* 78:164. Mar./Apr.1951. 451 T63B

42108 LOWY, B. *Climacium americanum* in Iowa. *Bryologist* 53:289-292. Ref. Dec.1950. 450 B84

42109 MCCLYMONT, J. W. Notes on *Buxbaumia*. *Bryologist* 53:276-277. Dec.1950. 450 B84

42110 TOSCO, U. Contribution to a knowledge of the Musci of the Piedmont and their distribution: the genus *Andreaea* Ehrh. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.) 56:738-740. 1949. 450 N92

42111 WAGNER, K. A. Notes on Indiana liverworts. III. Some new County and State records. *Ind. Acad. Sci. Proc.* (1949)59:112-114. 1950. 500 In2

42112 WELCH, W. H. Studies in Indiana Bryophytes. VII. *Ind. Acad. Sci. Proc.* (1949)59:115-121. 1950. 500 In2

### Algae

42113 DAILY, F. K. *Tolypella prolifera* Leonh. found in Indiana. (Abs.) *Ind. Acad. Sci. Proc.* (1949)59:41. 1950. 500 In2

42114 DELLOW, V. A new species of *Microdictyon* Decaisne in New Zealand. *Auckland Inst. & Mus. Rec.* 4: 3-7. Dec.20,1950. 514 Au22R

42115 FLINT, L. H. Studies of freshwater red algae. *Amer. J. Bot.* 37:754-757. Nov.1950. 450 Am36

42116 HORN AF RANTZIEN, H. Charophyta reported from Latin America. *Arkiv f. Bot.* (n.s.)1:355-411. Ref. 1951. 451 Sv2

42117 MARKLE, M. S. The algae of the Edmund Niles Huyck Preserve [New York]. *Ind. Acad. Sci. Proc.* (1949)59:80-81. 1950. 500 In2

42118 OYE, P. VAN, and GILLARD, A. Contribution à la connaissance de la distribution géographique de quelques Chlorophycées en Belgique. *Hydrobiologia* 2: 322-355. Ref. Nov.15,1950. 410 H992

42119 PRESCOTT, G. W. Ecology of Panama Canal algae. *Amer. Micros. Soc. Trans.* 70:1-24. Ref. Jan. 1951. 440.9 Am33

42120 SKOTTSBERG, C. The algae of the Antarctic. (In Swedish.) *Svenska Vetenskakad. Arsb.* 1950:367-380. 502 St6A

42121 ZANEVELD, J. S. A review of three centuries of phycological work and collectors in Indonesia (1650-1950). *Organ. Sci. Res. Indonesia. O. S. R. P.* 21,16 p. Ref. 1950. 330.9 Or3O

### Fungi (Including Lichens)

42122 ARX, J. A. VON. Eine neue *Discomyceten*-gattung [*Chaetonaevia*] aus Skandinavien. *Antonie van Leeuwenhoek J. Microbiol. & Serol.* 17:85-89. 1951. 448.8 N28A

English summary.  
42123 BAKER, R. E. D., and DALE, W. T. Fungi of Trinidad and Tobago. *Commonwealth Mycol. Inst. Mycol. Papers* 33,123 p. Ref. Feb.14,1951. 451 Im73M

42124 BIBBY, P. *Parmelia australiensis* Cromb. *Victorian Nat.* 67:186. Jan.3,1951. 410 V66

42125 BUESA, A. Las setas; descripción y láminas, señalando con toda seguridad las setas comestibles. *Vitoria*, 1950. 42 p. 462.5 B86

42126 CASTELLANI, E., and CIFERRI, R. *Mycoflora Erythraea*, Somala et Aethiopia. *Supplementum I. Ist. Bot. della U. Pavia. Atti. Sup.* (Ser.5)H,52 p. 1950. 451 P282

42127 CORNER, E. J. H. A monograph of *Clavaria* and allied genera. London, Oxford U. Press, 1950. 740 p. (Ann. Bot. Mem. No.1) 462.06 C81

42128 COTTINGHAM, J. O. Higher fungi of Marion County, Indiana. *Ind. Acad. Sci. Proc.* (1949)59:58. 1950. 500 In2

42129 DIX, W. L. Lichens and hepatics of the Nueltin Lake Expedition, Keewatin, 1947. *Bryologist* 53:283-288. Ref. Dec.1950. 450 B84

42130 FABRICATORE, J. A. *Colletotrichum mahoniae* n. sp., parasitic on the leaves of *Mahonia aquifolium*. (In Italian.) *Sta. di Patol. Veg. B.* (ser.3)6:133-139. 1948, pub. 1950. 464.9 R662

English summary.  
42131 FLORENZANO, G. A species of *Valsa* new to Italy. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:661-666. 1949. 450 N92

42132 GRASSE, P. P., and HEIM, R. Un *Termitomyces* sur meules d'un *Ancistrotermes* africain. *Rev. Sci.* 88:1-13. Ref. Jan./Mar.1950. 473 R32

42133 GREMMEN, J. J. From the wonder world of the fungi. (In Dutch.) *Natura* 48:20-22. Feb.1951. 410 N2192

42134 HALLEMANS, A. Fungi and mushrooms. (In Flemish.) *Cult. en Handel* 17:24-26. Jan.1951. 80 C892

42135 HERRE, A. W. C. T. New lichens from California, New Mexico, and the Philippines. *Bryologist* 53:296-299. Dec.1950. 450 B84

New species in *Lopadium*, *Heppia*, and *Rinodina*.

42136 HESLER, L. R. Notes on southern Appalachian fungi, IX. *Tenn. Acad. Sci. J.* 26:4-14. Ref. Jan.1951. 500 T25A

42137 HOWARD, G. E. Lichens of the state of Washington. Seattle, U. Wash. Press, 1950. 191 p. 461.5 H832

42138 MAINS, E. B. Notes concerning entomogenous fungi. *Torrey Bot. Club. B.* 78:122-133. Ref. Mar./Apr. 1951. 451 T63B

42139 MALAN, C. E. On a new report of *Dicyma ambigua* Peyronel and the systematic position of this species. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:735-738. 1949. 450 N92

42140 MÜLLER, E., and ARX, J. A. VON. Einige aspekts zur systematik pseudosphärialer Ascomyceten. *Schweiz. Bot. Gesell. Ber.* 60:329-397. Ref. 1950. 451 Sch9

English summary.

42141 OLIVE, L. S. New or noteworthy species of Tremellales from the southern Appalachians. *Torrey Bot. Club. B.* 78:103-112. Ref. Mar./Apr.1951. 451 T63B  
Includes new species in: *Platyglöea*, *Helicoglöea*, and *Seismosarca*.

42142 PUJULA, P. J. Datos curiosos en la observación de un mixomiceto [*Copromyxa protea*]. *Broteria* 20:38-40. 1951. 410 B79C

42143 ROUTIEN, J. B. Studies of monosporous cultures of *Polyporus cinnabarinus* Fr. *Torrey Bot. Club. B.* 78:145-152. Mar./Apr.1951. 451 T63B



42144 STECHER, H. Hypoxylon, eine weitverbreitete Gattung unter den Schlauchpilzen. *Leben u. Umwelt* 7:107-111. Feb. 1951. 410 L49

42145 WEI, C. T. Notes on *Corynespora*. *Commonwealth Mycol. Inst. Mycol. Papers* 34, 10 p. Ref. Aug. 30, 1950. 451 Im73M

## PATHOLOGY

### General

42146 ALLEN, T. C. Deformities caused by insects. In Skoog, F., ed. *Plant growth substances*, p. 411-415. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5

42147 ALLMENDINGER, D. F., MILLER, V. L., and JOHNSON, F. The control of fluorine scorch of *Gladolus* with foliar dusts and sprays. *Amer. Soc. Hort. Sci. Proc.* 56:427-432. Dec. 1950. 81 So12

42148 ANGRAND, J. Lutte préventive contre certaines maladies et lutte contre les ennemis du blé. *Cahiers des Ingén. Agron.* 6:43-44. Fourth Q. 1950. 14 C112

42149 BARDIA BARDIA, R. Enfermedades de los árboles frutales. *Cult. Mod.* 34:4-5. Jan. 1951. 15 C89 Spain.

42150 BARNES, H. V., and ALLEN, J. M., comps. A bibliography of plant pathology in the Tropics and in Latin America. U. S. D. A. Bibliog. B. 14, 78 p. Feb. 1951. 1 Ag84Bi

42151 BEAUMONT, A. Diseases of Arum lilies. *Gard. Chron.* 129:61-62. Feb. 24, 1951. 80 G162

42152 BICKEL, E. Die norwegische krähen-massenfalle. *Anz. f. Schädlingk.* 24:28-29. Feb. 1951. 421 An9

42153 BOURIQUET, G. Possibilités d'emploi en territoire français d'outre-mer de l'avion et de l'hélicoptère dans la lutte contre les parasites végétaux des plantes cultivées. *Phytoma* 4(22):6-10. Ref. Jan. 1951. 464.8 P563

42154 BRANAS, J. Sur les gelées. *Prog. Agr. et Vitic.* 1951:111-117. Mar. 4/11, 1951. 14 P94 Effects on plants.

42155 BRAUN, A. J. Grape diseases are easy to control. *Rur. New-Yorker* 101:211. Mar. 17, 1951. 6 R88

42156 CAIRE, P. A propos du court noué. *Réveil Agr.* 60:53. Feb. 15, 1951. 14 R322

42157 CAREL, P. Les maladies de carence chez les agrumes. *Colon Franç. de Tunisie (ser. 7)* 60(2138):1, 3. Apr. 1, 1950. 24 C712

42158 CARRANTE, A. Lionello Petri as defensor of the crops. (In Italian.) *Sta. di Patol. Veg. B. (ser. 3)* 6: V-VII. 1948, pub. 1950. 464.9 R662 English summary.

42159 CHABRILLÓN, A. L. Estado actual de los trabajos de crianza de trigo en Tezanos Pinto, con respecto a la resistencia a las principales enfermedades. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:167-168. 1950. 59.9 P41

42160 CHIRVINSKIĬ, P. N. Trees and lightning. (In Russian.) *Priroda* 39(10):28-33. Ref. Oct. 1950. 410 P933

42161 CICCARONE, A. Effects of cold and rust on olives, shown by damage observed in some zones of Puglia in 1949-1950. (In Italian.) *Sta. di Patol. Veg. B. (ser. 3)* 6:141-174. Ref. 1948, pub. 1950. 464.9 R662 English summary.

42162 EDGERTON, C. W. Forty-two years of sugar-cane disease research at the Louisiana Agricultural Experiment Station; a report of pathological and botanical investigations as they have affected the Louisiana sugar industry during the period 1908-1950. *La. Agr. Expt. Sta. B.* 448, 31 p. Ref. Oct. 1950. 100 L93

42163 CLEVELAND, J. Are dogwoods doomed by disease? *Amer. Forests* 57(4):12-14. Apr. 1951. 99.8 F762

42164 FARINA, M. More on winter spraying of fruit trees. (In Italian.) *Agr. Romagn.* 1951(3):2. Feb. 5, 1951. 16 Ag828

42165 FISCHER, G. W. Plant pathology in the State of Washington—past, present, future. *Plant Dis. Rptr. Sup.* 200:42-55. Mar. 30, 1951. 1.9 P69P

42166 FRAZIER, W. A. Tomato breeders seek multiple disease-resistant varieties; a discussion of several varieties. *Mkt. Growers J.* 80(3):24, 26-27. Mar. 1951. 6 M34

42167 FRÖMMING, E. Allgemeine betrachtungen über die prüfung molluscizider mittel. *Anz. f. Schädlingk.* 24:26-28. Ref. Feb. 1951. 421 An9 Snail control.

42168 GERRITSEN, C. Spring spraying by amateur fruit growers. (In Dutch.) *Fruitteelt* 41:115. Feb. 15, 1951. 86 N28

42169 GLASS, E. H. Parathion injury to apples. *Rur. New-Yorker* 101:218-219. Mar. 17, 1951. 6 R88

42170 GROVES, A. B. Apple fruit finish in 1950. *Mountaineer Grower* 21(185):22-23, 26. Feb. 1951. 80 M86 Injuries to skin.

42171 HALLEMANS, A. Is winter spraying not indispensable in fruit culture? (In Flemish.) *Cult. en Handel* 17:105-106. Feb. 1951. 80 C892

42172 HALLEMANS, A. With renewed courage for the task. (In Flemish.) *Cult. en Handel* 17:159-160. (To be cont.) Mar. 1951. 80 C892

Control of diseases and pests of apples and pears. 42173 HATCH, A. B. Notes on the possibilities of using antibiotics in controlling plant diseases. *Natl. Shade Tree Conf. Proc.* 26:91-97. Ref. 1950. 99.9 N218

42174 HEWITT, W. B. Grape dead-arm control. *Plant Dis. Rptr.* 35:142-143. Mar. 15, 1951. 1.9 P69P

42175 HOWARD, F. L., and MILLER, P. A. Progress in plant chemotherapy. *Natl. Shade Tree Conf. West. Chapter. Proc.* 17:246-251. In *Natl. Shade Tree Conf. Proc.* 26. 1950. 99.9 N218

42176 HUS, P. Plant disease control in 1950. (In Dutch.) *Fruitteelt* 40:992-994. Christmas 1950. 86 N28

42177 KAWAMURA, S., and TAKAHASHI, Y. Hana no byogai chu to bojo [Pests of flowering plants and their control]. Tokyo, Asakura Shoten, 1950. 246 p. (Shinnogyo Zensho, 5) 464.4 K172

42178 KAWAMURA, T. Ippan shokubutsu byogaku [General plant disease science]. Tokyo, Asakura Shoten, 1950. 316 p. 464 K17

42179 KAWAMURA, T. Kaju byogai bojo no nerai [Prevention and exclusion of diseases from fruit trees]. Tokyo, Asakura Shoten, 1950. 144 p. 464.4 K17K

42180 KELLER, E. Organisation und tätigkeit des Niederländischen Pflanzenschutzdienstes. *Schweiz. Landwirt. Monatsh.* 29:65-68. Feb. 1951. 17 Sch93

42181 KLEMM, A. Schluss mit den wildschäden! Neue Mitt. f. die Landwirt. 6:74. Feb. 3, 1951. 18 N39

42182 KOCH, L. W., and STOVER, R. H. Tobacco diseases and the present status of their investigation in Canada. *Canada. Expt. Farms. Tobacco Div. Lighter* 21: 10-16. Feb. 1951. 286.89 C16

42183 KRAMER, D. Gegen den kartoffelabbau. *Deut. Landwirt. Presse* 74:58-59. Mar. 3, 1951. 18 D482

42184 KREZDORN, A. H. Some observations of the Burkett disease of pecan. *Tex. Pecan Growers Assoc. Proc.* 29:34-37. 1950. 94.69 T31

42185 LEYENDECKER, P. J., JR. 1950 plant disease survey for New Mexico. *Plant Dis. Rptr.* 35:168-169. Mar. 15, 1951. 1.9 P69P

42186 LIHNELL, D. Winter injuries to fruit trees and culture plants during the year 1947. (In Swedish.) *Sveriges Pomol. För. Årsskr.* 1950:207-216. Ref. 86 Sv2 In Scandinavia.

42187 LUTTRELL, E. S. Diseases of guar in Georgia. *Plant Dis. Rptr.* 35:166. Mar. 15, 1951. 1.9 P69P

42188 MCCREA, R. J. Portable quarantine seed inspection table. *Calif. Dept. Agr. B.* 40:27-29. Jan./Mar. 1951. 2 C12M

42189 MARTINEZ, E. J. Registro epifitiológico cerealero. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:9-15. 1950. 59.9 P41 Includes discussion.

42190 MENZIES, J. D., and NELSON, C. E. The effect of sprinkler irrigation on the spread of certain plant diseases. *U. S. Bur. Plant Indus., Soils & Agr. Engin. Div. Soil Mangt. & Irrig. Res. Rpt.* 206, 8 p. Mar. 15, 1951. 1.965 S4R312

42191 MILLER, P. W. Nut diseases in Oregon in 1950. *Plant Dis. Rptr.* 35:145. Mar. 15, 1951. 1.9 P69P

42192 NAFTHALI, J. The field-mouse infestation of our country in 1949-1950. (In Hebrew.) *Hassadeh* 31:183-185. (Concl.) Jan. 1951. 26 H27

42193 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF SCIENCE SERV. Twentieth annual report. *Plant disease survey for the twelve months ending 30th June, 1950.* Sydney, 1950. 60 p. 464.9 N47P



- 42194 NEWTON, W. Experience in British Columbia with bulb diseases. *Newest. Bulb Growers Assoc. Proc. Bulb Growers Short Course* 3:34-37. 1950. 81 N817
- 42195 NILSSON, P. E. An improved device for aseptic cultivation of higher plants. Sweden. *Lantbrögsk. Ann.* 17:358-360. 1950. 104 Up6
- 42196 OELOFSEN, O. N. Investigation of cereal diseases in the Western Cape Province. Union So. Africa. *Dept. Agr. Sci. B.* 289,17 p. 1947, pub. 1950. 24 So84S
- 42197 ORSAT, C. O. Traitements d'hiver dans les vignobles. *Rev. Agr. de l'Afrique du Nord* 49:49-52. (To be cont.) Jan. 19, 1951. 80 R326
- 42198 PERGOLANI DE COSTA, M. J. I. Las aves que dañan a algunos cereales y benefician el cultivo de otros al destruir las semillas de malezas. Cent. Region. Pampeano de Invest. Agropecuarias. *Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:98-102. 1950. 59.9 P41
- 42199 PFLANZENSCHUTZ im wechsel der jahreszeiten. Ein schädlingbekämpfungs-kalender, 1951. Halle, 1950. 66 p. 464.8 P483
- 42200 POIGNANT, P. Au sujet de confusions entre les symptômes du bitter pit et des dégâts d'insectes. *Phytoma* 4(22):25-26. Jan. 1951. 464.8 P563 Apples.
- 42201 RAMSFJELL, T., and GJAERUM, H. B. Forsøk med radgjerder mot sjukdommer i fruktog bærhagen 1949. Control experiments with fruit diseases in 1949. Norway. *Stat. Plantevern. Meld.* 4,32 p., Ref. 1950. 86 N83
- 42202 READ, F. G. The old-timers can teach us a thing or two; building up of resistance to disease in the glasshouse by the handling of the soil. *Smallholder* 84 (2130):11; (2131):11. Mar. 16-23, 1951. 10 Sm1
- 42203 REED, C. F., and REED, P. G. Host distribution of mistletoe [*Phoradendron flavescens*] in Kentucky. *Castanea* 16:7-15. Ref. Mar. 1951. 450 So82
- 42204 REFATTI, E. State of research on dying of fruit trees in Venezia Tridentina. (In Italian.) *Almanacco Agr.* (1951) 62:129-139. 1950. 16 AL6
- 42205 REITSMA, J., SLOOFF, W. C., and THUNG, T. H. Notes on some plant diseases and pests in Indonesia. *Indonesia. Gen. Agr. Res. Sta. Contrib.* 109,59 p. Sept. 1950. 109.5 Ea73
- 42206 RIKER, A. J., and THOMAS, J. E. The interaction between causative agents in diseased growth. In Skoog, F., ed. *Plant growth substances*, p.405-410. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42207 ROSBERG, D. W. Control of pecan diseases in 1950. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1330,4 p. Feb. 21, 1951. 100 T31P
- 42208 ROSELLA, E. Certains traitements d'hiver doivent être reportés a plus tard. *Réveil Agr.* 60:69. Mar. 1, 1951. 14 R322 Grapes.
- 42209 ROSEN, H. R. Oat diseases in Arkansas 1949-50. *Plant Dis. Rptr.* 35:149-151. Mar. 15, 1951. 1.9 P69P
- 42210 ROSSI, L. Winter care of fruit trees. (In Italian.) *Riv. di Frutticoltura* 13:50-54. Jan. 1951. 80 R52 Spraying and dusting.
- 42211 SCHAEFER, E. E. Plant diseases. *Farming So. Africa* 26:36. Feb. 1951. 24 So842
- 42212 SCHENK, P. J. Hares and wild rabbits. (In Flemish.) *Cult. en Handel* 17:31-32. Jan. 1951. 80 C892 Injuries to fruit.
- 42213 SCHROEDER, W. T. Field reaction of 17 tomato varieties to three diseases in 1949 and 1950 at Geneva, New York. *Plant Dis. Rptr.* 35:160-161. Mar. 15, 1951. 1.9 P69P
- 42214 SCHUTZ, F. Einige krankheiten und schädlinge unserer primeln. *Gärtnermeister* 54:41-42. Feb. 8, 1951. 80 G1939
- 42215 SCHWERTFEGGER, F. Grundriss der forstpathologie. Berlin, Parey, 1950. 197 p. 464.07 Sch92G
- 42216 SIBILIA, C. Application of genetics to plant pathology. (In Italian.) *Cong. Agr. Naz. Atti* 1948:461-482. 1950. 27 C7625
- 42217 SOUTH CAROLINA. CLEMSON AGRICULTURAL COLLEGE. EXTENSION SERV. Summer spray schedules for peaches. *Rev. Clemson Agr. Col. S. C. Ext. Inform. Card* 72. Feb. 1951. 275.29 So81
- 42218 STONER, W. N. A list of some of the plant diseases occurring in Everglades region of Florida during the 1949-1950 season. *Plant Dis. Rptr.* 35:170-172. Mar. 15, 1951. 1.9 P69P
- 42219 TERNOVSKII, M. F. Immune tobacco varieties. (In Russian.) *Selek. i Semen.* 17(10):40-43. Oct. 1950. 61.9 Se5
- 42220 TROUILLON, L. Ne mélangez pas n'importe quel produit de traitement! *Rev. Agr. de l'Afrique du Nord* 49:60. Jan. 19, 1951. 80 R326
- 42221 WALKER, J. C. History of plant disease control. *Veg. Growers Assoc. Amer. Annu. Rpt.* 1950:209-212. 81 V52
- 42222 WEISSER. Rindenschäden an buche. *Forst-wirt. Holzwirt.* 4:341-342. Nov. 1/15, 1950. 99.8 F7793 Due to frost.
- 42223 WELCH, D. S. Diseases of certain trees. *Natl. Shade Tree Conf. Proc.* 26:113-116. 1950. 99.9 N218
- 42224 WILKINS, V. E. Bases of the European agreement for plant protection. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 15:1-2. Feb. 28, 1951. 281.8 Ag3
- 42225 WINGARD, S. A. The role of plant pathology in Virginia agriculture. *Plant Dis. Rptr. Sup.* 200:36-41. Mar. 30, 1951. 1.9 P69P
- 42226 YOUNG, P. A., and WATKINS, G. M. History of plant disease research in Texas. *Plant Dis. Rptr. Sup.* 200:30-35. Mar. 30, 1951. 1.9 P69P
- 42227 ZIV, S. Damage by spray and dust preparations. (In Hebrew.) *Hassadeh* 31:173-174. Jan. 1951. 26 H27

### Diseases Caused by Fungi

- 42228 AGARKOV, V. A. Parasitism of *Botrytis cinerea* on buckwheat and sainfoin. (In Russian.) *Selek. i Semen.* 17(10):67. Oct. 1950. 61.9 Se5
- 42229 ANDREN, F. Need and preparations for seed treatment. (In Swedish.) *Lantmannen* 35:218,221. Mar. 10, 1951. 11 L234
- 42230 BARNES, W. C., and EPPS, W. M. Some factors related to the expression of resistance of cucumbers to downy mildew. *Amer. Soc. Hort. Sci. Proc.* 56:377-380. Dec. 1950. 81 So12
- 42231 BIRAGHI, A. Inoculations on chestnut-trees with *Endothia* sp. isolated in Biscay. (In Italian.) *Sta. di Patol. Veg. B. (ser.3)* 6:113-117. 1948, pub. 1950. 464.9 R662 English summary.
- 42232 BLACK, W., and MEZZETI, A. Biotypes of *Phytophthora infestans* De Bary in Italy. (In Italian.) *Sta. di Patol. Veg. B. (ser.3)* 6:123-127. 1948, pub. 1950. 464.9 R662 English summary.
- 42233 BONAVENTURA, G., and CAMPOSANO, A. Parasitic fungi of Mount Fumaiolo. (Tuscan-Roman Apennines). (In Italian.) *Nuovo Gior. Bot. Ital. (n.s.)* 56:419-424. 1949. 450 N92 English summary.
- 42234 BOUDES, A. Traitement de l'oïdium de la vigne par soufre jaune (fleur de soufre sublimé) contenant 990/0 de soufre libre ou par soufre noir (contenant 400/0 de soufre libre). *Rev. Agr. de l'Afrique du Nord* 49:53-55. Jan. 19, 1951. 80 R326
- 42235 BRETZ, T. W. Oak wilt. *J. Forestry* 49:169-171. Ref. Mar. 1951. 99.8 F768
- 42236 BRINKERHOFF, L. A. Cottonseed treatment for Oklahoma. *Okl. Agr. Expt. Sta. Mimeog. C. M-216*, 3 p. Mar. 1951. 100 Ok4M
- 42237 BROWN, M. E. Legume and grass seed treatment effective. *Seed Trade News* 56(12):4. Mar. 21, 1951. 61.8 Se3
- 42238 BRUNI, O., GODOY, E. F., and SAVCIA, H. J. Comportamineto a [septoria] odororum y S. tritici de trigos argentinos y extranjeros. Cent. Region. Pampeano de Invest. Agropecuarias. *Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:37-49. 1950. 59.9 P41
- 42239 BUDZIEN, J. Leaf mold resistance in super duper tomatoes. *Veg. Growers Assoc. Amer. Annu. Rpt.* 1950:37-39. 81 V52
- 42240 CAMICI, L. Mummification of chestnuts due to *Phomopsis viterbensis* n. sp. (In Italian.) *Sta. di Patol. Veg. B. (ser.3)* 6:79-88. 1948, pub. 1950. 464.9 R662 English summary.



- 42241 CAMICI, L. Rhizoctonia solani Kühn and correlation among parasitic and not parasitic factors in the carnation withering of the Riviera Ligure. (In Italian.) Sta. di Patol. Veg. B. (ser.3)6:89-105. Ref. 1948, pub. 1950. 464.9 R662  
English summary.
- 42242 CARPENTER, J. B. Target leaf spot of the Hevea rubber tree in relation to host development, infection, defoliation, and control. U. S. D. A. Tech. B. 1028, 34 p. Ref. Feb. 1951. 1 Ag84Te  
Caused by Pellicularia filamentosa.
- 42243 CARRERA, C. J. M. El golpe blanco ó "fusariosis" de los cereales. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:55. 1950. 59.9 P41
- 42244 CARTER, J. C. Cytospora canker. Natl. Shade Tree Conf. Proc. 26:44-50. Ref. 1950. 99.9 N218
- 42245 CARTER, J. C., and WYSONG, N. B. Isolation of the oak wilt fungus from swamp white oak [Quercus bicolor]. Plant Dis. Rptr. 35:173-174. Mar. 15, 1951. 1.9 P69P
- 42246 CASTELLANI, E., and GRANITI, A. A Verticillium parasitic on Cronartium asclepiadeum. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:628-638. Ref. 1949. 450 N92  
English summary.
- 42247 CENOZ, H. Principales fuentes de resistencia al carbon volador y a la carie del trigo. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:50. 1950. 59.9 P41
- 42248 CHABROLIN, C. Maladies cryptogamiques et mauvaises herbes; procédés de lutte. Cahiers des Ingén. Agron. 6:45-46. Fourth Q. 1950. 14 C112  
In grain.
- 42249 CHARNAT, P. Le rot blanc. Réveil Agr. 60: 36. Feb. 1, 1951. 14 R322  
Coniothyrium diplodiella on grapes.
- 42250 CHIARUGI, A. The appearance at Pisa of Claviceps paspali Stev. et Hall on Paspalum dilatatum Pior. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:646-647. 1949. 450 N92
- 42251 CICCARONE, A. Experiments in the control of Cladosporium fulvum. (In Italian.) Sta. di Patol. Veg. B. (ser.3)6:195-199. Ref. 1948, pub. 1950. 464.9 R662  
English summary.  
On tomato.
- 42252 CICCARONE, A. Short observation on corticolous fungi of Populus canadensis. (In Italian.) Sta. di Patol. Veg. B. (ser.3)6:185-191. Ref. 1948, pub. 1950. 464.9 R662  
English summary.
- 42253 CUMMINS, G. B. A new life cycle variant of the Stipa-mallow rusts. (Abs.) Ind. Acad. Sci. Proc. (1949)59:40-41. 1950. 500 In2
- 42254 DAVIS, D., HENDERSON, L. M., and POWELL, D. The niacin-tryptophan relationship in the metabolism of Xanthomonas pruni. J. Biol. Chem. 189:543-549. Ref. Apr. 1951. 381 J824
- 42255 DEMAREE, J. B., and MORROW, E. B. Relative resistance of some blueberry varieties and selections to stem canker [Phylospora corticis] in North Carolina. Plant Dis. Rptr. 35:136-141. Mar. 15, 1951. 1.9 P69P
- 42256 DENNETT, R. K. The association of resistance to Fusarium wilt and Stemphylium leaf spot in tomato, Lycopersicon esculentum. Amer. Soc. Hort. Sci. Proc. 56:353-357. Ref. Dec. 1950. 81 So12
- 42257 DWYER, W. W., JR. Fomes annosus on eastern redcedar in two Piedmont forests. J. Forestry 49: 259-262. Apr. 1951. 99.8 F768
- 42258 EJSING, G. Better preparations against potato blight. (In Danish.) Gart.-Tid. 67:55-56. Jan. 31, 1951. 80 G192
- 42259 EMDEN, J. H. VAN, and HELL, W. F. VAN. Blisterblight. (In Dutch.) Bergcultures 20:7,9. Jan. 1, 1951. 22.5 B45  
Of tea.
- 42260 FENNE, S. B. Better control for blue mold; spraying or dusting the tobacco plant bed to control blue mold is a must this year. South. Planter 112(3):26-27. Mar. 1951. 6 So89
- 42261 FISCHER, G. W., and DIETZ, S. M. They breed new trouble for wheat barberry and 15-B. Oreg. Farmer 74:194,204. Mar. 15, 1951. 6 Or32
- 42262 FRIES, N., and PANDERS, A. The growth-inhibiting effect of 5-amino-7-hydroxy-triazolopyrimidine in fungi and its reversal by purines. Arkiv f. Bot. (n.s.) 1:437-444. Ref. 1951. 451 Sv2  
Experiments with Ophiostoma multiannulatum and Lentinus omphalodes.
- 42263 GARRISS, H. R. Some recommended fungicides for control of certain crop diseases in North Carolina. N. C. Agr. Col. Plant Path. Inform. Notes 1,8 p. Nov. 1950. 464.9 N812
- 42264 GAUMANN, E., and TERRIER, C. Über einen neuen Uromyces auf Calycotome spinosa Lk. Schweiz. Bot. Gesell. Ber. 60:611-613. 1950. 451 Sch9
- 42265 GIORGIO, V. Inoculations of rye with aecidionidia of [Puccinia dispersa from] Anchusa undulata. (In Italian.) Sta. di Patol. Veg. B. (ser.3)6:181-183. 1948, pub. 1950. 464.9 R662  
English summary.
- 42266 GJAERUM, H. B. Fungus and virus diseases of Dahlia. (In Norwegian.) Gartneryrket 41:137-138. Feb. 24, 1951. 80 G1938
- 42267 GJAERUM, H. B. Recent fungicides. (In Norwegian.) Gartneryrket 41:91-92. Feb. 10, 1951. 80 G1938
- 42268 GJAERUM, H. B. Sooty blotch [Gloeodes pomigena] and fly speck [Leptothyrium pomi] on apple. (In Norwegian.) Gartneryrket 41:74-75. Feb. 3, 1951. 80 G1938
- 42269 GODOY, E. F., SAVOIA, H. J., and BRUNI, O. Importancia de la roya del tallo en 1949. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:16-20. 1950. 59.9 P41  
Includes discussion.
- 42270 GODOY, E. F., SAVOIA, H. J., and BRUNI, O. La roya de la hoja en 1949. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:21-31. 1950. 59.9 P41  
Includes discussion.
- 42271 GOIDANICH, G., and MEZZETTI, A. Investigations on the biology of Melanospora dammosa (Sacc.) Lindau. II. (In Italian.) Sta. di Patol. Veg. B. (ser.3)6: 45-70. Ref. 1948, pub. 1950. 464.9 R662  
English summary.
- 42272 GOIDANICH, G., RUGGIERI, G., and GAGNOTTO, A. A new form of agamic fructification in Deuterophoma tracheiphila Petr. (In Italian.) Sta. di Patol. Veg. B. (ser.3)6:107-111. 1948, pub. 1950. 464.9 R662  
English summary.
- 42273 GOPALKRISHNAN, K. S. Preliminary report on the phytopathology of Physoderma graminis (Busgen) Minden, 1911. (Abs.) Ind. Acad. Sci. Proc. (1949)59:42. 1950. 500 In2
- 42274 GRASER, H. I. Walnut wilt control. West. Fruit Grower 4(10):10. Oct. 1950. 95.8 G762
- 42275 GT. BRIT. FORESTRY COMMISSION. Chestnut blight caused by the fungus Endothia parasitica. Gt. Brit. Forestry Comm. Booklet 3,2 p. 1950. 99.9 G795B
- 42276 GRIES, G. A. The relation of soluble aluminum ions to the common potato scab disease and to the growth of Actinomyces scabies in culture. (Abs.) Ind. Acad. Sci. Proc. (1949)59:43. 1950. 500 In2
- 42277 HARRY, J. B. Laboratory and field comparisons of tenacity agents for agricultural spray fungicides. Mich. U. Microfilm Abs. 11:3-4. 1951. 241.8 M58
- 42278 HAUB, F. E. Perjuicios económicos del carbon hediondo o caries del trigo. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:51-54. 1950. 59.9 P41  
Includes discussion.
- 42279 HEGGESTAD, H. E., and CLAYTON, E. E. Burley 1, a new black root rot resistant tobacco. Tenn. Agr. Expt. Sta. C. 106,4 p. Feb. 1951. 100 T25S
- 42280 HELL, W. F. VAN, and VEENSTRA, H. The killing of shade trees by means of sodium arsenite. (In Dutch.) Bergcultures 20:27,29. Jan. 16, 1951. 22.5 B45  
English summary.  
For the control of blister blight on tea.
- 42281 HENRY, A. W., and others. Control of covered smut of oats by seed treatment with an antibiotic. Science 113:390. Apr. 6, 1951. 470 Sci2  
E. A. Peterson, R. L. Millar, and J. S. Horricks, joint authors.  
Actidione.
- 42282 HIRT, R. R. Canker disease [Cytospora kunzei] attacks spruces. Horticulture 29:96. Mar. 1951. 80 H787



- 42283 JONG, P. DE. More on the control of blister blight. *Planters' Chron.* 46:35-39. Jan.15,1951. 22 P693  
Of tea.
- 42284 JONG, P. DE. Power dusting against blister blight; minimum copper content dusts being used in southern India investigations. *World Crops* 3:106. Mar.1951. 281.8 W892  
In tea.
- 42285 JUMP, J. A. Observations upon a strain of *Streptomyces albus* antagonistic to certain phytopathogenic fungi. *Ind. Acad. Sci. Proc.* (1949)59:71-74. 1950. 500 In2
- 42286 KERN, H. Über eine Peronospora auf *Lasiopodium radiatum*. *Schweiz. Bot. Gesell. Ber.* 60:398-400. 1950. 451 Sch9
- 42287 KLIUSHNIK, P. I. Fungus diseases of exotic trees. (In Russian.) *Lesn. Khoz.* 3(7):71-72. July 1950. 99.8 L5622
- 42288 KUNTZ, J. E. What's new in oak wilt [*Chalara quercina*]. *Natl. Shade Tree Conf. Proc.* 26:31-37. 1950. 99.9 N218
- 42289 LAVEZZINI, A. Fruit scab in the Province of Parma. (In Italian.) *Avvenire Agr.* 59:15-16. Jan.1951. 16 Av9  
*Venturia pirina* in pears and *Venturia inaequalis* in apples.
- 42290 LEHMAN, S. G., MURAKISHI, H., and GRAHAM, J. H. A leaf spot of soybean caused by *Sclerotium rolfsii*. *Plant Dis. Rptr.* 35:167-168. Mar.15,1951. 1.9 P69P
- 42291 LEVINE, M. N., AUSEMUS, E. R., and STAKMAN, E. C. Wheat leaf rust studies at Saint Paul, Minnesota. *Plant Dis. Rptr. Sup.* 199,17 p. Mar.30,1951. 1.9 P69P
- 42292 MACHACEK, J. E. Results from co-operative seed treatment experiments on small grains. *Plant Dis. Rptr.* 35:146-148. Mar.15,1951. 1.9 P69P
- 42293 MCLEAN, D. M. Sclerotinia stem rot and *Ramularia* leaf spot on dandelion grown for seed in Skagit County, Washington. *Plant Dis. Rptr.* 35:162-163. Mar. 15,1951. 1.9 P69P
- 42294 MCLEAN, N. A., and SCIARONI, R. H. Greenhouse roses; control of powdery mildew and rust on certain varieties in Bay area. *Calif. Agr. [Calif. Sta.]* 3(4):9 Apr.1951. 100 C12Cag
- 42295 MANTEN, A., KLÖPPING, H. L., and KERK, G. J. M. VAN DER. Investigations on organic fungicides. III. The influence of essential trace metals upon the fungitoxicity of tetramethylthiuram disulphide and 3-hydroxyquinoline. *Antonie van Leeuwenhoek J. Microbiol. & Serol.* 17:58-68. Ref. 1951. 448.8 N28A
- 42296 MARTINEZ, E. J. Estimación de los daños causados por las royas de los cereales. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:34. 1950. 59.9 P41
- 42297 MARTYN, E. B., and MCILWAINE, A. Banana leaf spot disease control in Jamaica. *Jamaica. Dept. Agr. B. (n.s.)* 46,30 p. 1950? 8 J227B
- 42298 MAZZEI, I. Preparación correcta del caldo bordelés. *Uruguay. Inst. Nac. de Colon. B. Anexo* 1(12):10. Jan.1951. 282.29 Ur8
- 42299 MELCHERS, L. E. Bunt control in Kansas, a thirty-five-year coordinated program. *Kans. State Col. Agr. & Appl. Sci. Dept. Bot. Contrib.* 496,28 p. 1950? 275.2 K133Bu  
Wheat smut control.
- 42300 MERCER, R. Treat your grain. *Mont. Farmer-Stockman* 38(12):14,31. Feb.15,1951. 6 M764
- 42301 MEYER, H. Holzzerstörende pilze an der Douglasie. *Holz-Zentbl.* 77:215. Feb.13,1951. 99.81 H742
- 42302 MILLER, P. A. Results of some oak mildew [*Sphaerotheca lanestris*] control treatments. *Natl. Shade Tree Conf. West. Chapter. Proc.* 17:244-246. In *Natl. Shade Tree Conf. Proc.* 26. 1950. 99.9 N218
- 42303 MONROY, F. T. Caldo bordelés. *Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr.* 41(190):30. Oct./Dec.1950. 8 R323
- 42304 NELSON, R. Michigan State green-gold: a new celery resistant to Fusarium yellows. *Mich. Agr. Expt. Sta. Q. B.* 33:280-285. Feb.1951. 100 M58S  
*Fusarium apii*.
- 42305 PATERILO, G. A. Effect of agro-ecological conditions on the development and destructiveness of esca disease of grapes. (In Russian.) *Moldavskafa Plodo-Vinograd. Opytn. Sta. Sborn. Rabot* 1:72-85. Ref. 1949, pub.1950. 93.6 M73  
*Stereum hirsutum*.
- 42306 PATERILO, G. A. Effectiveness of spraying against diseases [*Venturia inaequalis*] and pests of orchards by a simplified system of time designation. (In Russian.) *Moldavskafa Plodo-Vinograd. Opytn. Sta. Sborn. Rabot* 1:147-159. 1949, pub.1950. 93.6 M73
- 42307 PATERILO, G. A. Red leaf spot of plums and measures for its control. (In Russian.) *Moldavskafa Plodo-Vinograd. Opytn. Sta. Sborn. Rabot* 1:125-146. 1949, pub.1950. 93.6 M73  
*Polystigma rubrum*.
- 42308 PATERILO, G. A. Spraying against downy mildew in time of grape blooming. (In Russian.) *Moldavskafa Plodo-Vinograd. Opytn. Sta. Sborn. Rabot* 1:86-87. 1949, pub.1950. 93.6 M73  
*Plasmopara viticola*.
- 42309 PETERSEN, D. H., and CATION, D. Peach blossom blight control experiments. *Mich. Agr. Expt. Sta. Q. B.* 33:218-222. Feb.1951. 100 M58S  
*Monilinia fructicola*.
- 42310 PONCHET, J. Les solutions actuelles au problème de la carie. *Phytoma* 3(21):7-9. Dec.1950. 464.8 P563  
*Tilletia* on wheat.
- 42311 PORTER, C. L. The responsibilities of a mycologist. *Ind. Acad. Sci. Proc.* (1949)59:8-16. 1950. 500 In2
- 42312 POST, J. J., and RICHEL, C. Possibilities for the reorganisation of the Dutch potato-blight warning service. (In Dutch.) *Landbk. Tijdschr.* 63:77-95. Ref. Feb. 1951. 105.2 Or3  
English summary.
- 42313 RADEMÄCHER, B. Blattfleckenkrankheit der rüben; entsehung und bekämpfung. *Württemb. Wchnbl. f. Landwirt.* 118:195-196. Mar.10,1951. 18 W96  
*Cercospora beticola*.
- 42314 RICH, S., and HORSFALL, J. G. Gaseous toxicants from organic sulfur compounds. *Amer. J. Bot.* 37: 643-650. Ref. Oct.1950. 450 Am36
- 42315 ROSELLA, E. Un ennemi des pèchers qu'il faut combattre dès l'automne, puis en hiver: le *Coryneum*. *Prog. Agr. et Vitic.* 1951:128-129. Mar.4/11,1951. 14 P94
- 42316 ROVSKY, V. M. Selection of elms resistant to Dutch-elm disease. n.d. 1 p. Translation 6448  
Translated from *Lesnoye Khoziasstvo* 5:43-45. 1950.
- 42317 RUGGERI, G. A Verticillium die-back of olive-trees. (In Italian.) *Sta. di Patol. Veg. B. (ser.3)* 6: 71-78. 1948, pub.1950. 464.9 R662  
English summary.
- 42318 SARASOLA, J. A., and CAMPI, M. D. Reacción de variedades de trigo a *Septoria nodorum* y *Septoria tritici* en la Argentina. *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:35-36. 1950. 59.9 P41
- 42319 SARAVI CISNEROS, R., and SANTA MARIA, H. C. Fungicidas orgánicos. *La Plata. U. Nac. Facul. de Agron. Cátedra de Fitopatol. B.* 5,11 p. 1950. 464.9 L31
- 42320 SCHENK, P. J. Monilia diseases of fruit trees. (In Flemish.) *Cult. en Handel* 17:98-100. Feb.1951. 80 C892
- 42321 SCOTT, D. H., and others. Further studies on the response of strawberry varieties and selections to strains of the red stele root disease fungus. *Plant Dis. Rptr.* 35:134-135. Mar.15,1951. 1.9 P69P  
W. F. Jeffers, G. M. Darrow, and D. P. Ink, joint authors.
- 42322 SEARS, R. D., and WINGARD, S. A. Fusarium wilt of sesame at Charlotte Court House, Virginia, in 1950. *Plant Dis. Rptr.* 35:173. Mar.15,1951. 1.9 P69P
- 42323 SEGALL, R. Brown spot disease [*Cephalosporium*] of celery found in New York. *Plant Dis. Rptr.* 35:164. Mar.15,1951. 1.9 P69P
- 42324 SILVA, M. E. M. DA, and MATTIA, E. A. F. DA. Contribution to the study of *Diplodia tubericola* (Ellis and Ev.) Taub., cause of dry rot of the sweet potato (*Ipomoea batatas*). (In Portuguese.) *Bahia. Sec. da Agr., Indus. e Com. Serv. de Divulg. B.* 46(6):152-156. Mar.1950. 9.2 B14
- 42325 SMART, M. E. The rust remover. *Co-op Grain Q.* 9:42-45. Spring 1951. 280.28 C7898  
Stem rust control.
- 42326 SMITH, A. L., and WILSON, C. Verticillium wilt of cotton in Alabama. *Plant Dis. Rptr.* 35:165. Mar. 15,1951. 1.9 P69P
- 42327 STEINBERG, R. A. Growth on synthetic nutrient solutions of some fungi pathogenic to tobacco. *Amer. J. Bot.* 37:711-714. Nov.1950. 450 Am36



42329 STEVENSON, J. A. A résumé of the activities of the mycological collections of the United States Department of Agriculture, with a phytopathological slant, 1885-1950. Plant Dis. Rptr. Sup. 200:21-29. Ref. Mar.30,1951. 1.9 P69P

42329 STRUBLE, F. B., and MORRISON, L. Control of watermelon anthracnose ("pox"). Okla. Agr. Expt. Sta. Mimeog. C. M-211, 2 p. Jan.1951. 100 Ok4M

42330 SWINGLE, R. U. Report on research on the Dutch elm disease. Natl. Shade Tree Conf. Proc. 26:38-44. 1950. 99.9 N218

Includes discussion.

42331 TISDALE, W. H., and FLENNER, A. L. Los derivados del ditio-carbamato como fungicidas. Du Pont de Nemours, E. I. & Co. B. del Agr. 7(2):11-15. Mar./Apr. 1951. 6 D92B

42332 TONTCHEV, T. Études sur la germination des spores de la pourriture grise (Botrytis cinerea) en rapport avec la diverse humidité de l'air. (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis. 18(2):39-46. 1950. 106.3 R32

French summary.

42333 VALLEGA, J., and FAVRET, E. A. Informaciones complementarias sobre especialización fisiológica de las royas de trigo y fuentes de resistencia. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:32-33. 1950. 59.9 P41

42334 VOGT, E. Belzung sichert hohe serradella-erträge. Neue Mitt. f. die Landwirt. 6:169-170. Mar.17, 1951. 18 N39

42335 WEAVER, L. O. The constriction disease of peach in Maryland. Plant Dis. Rptr. 35:144. Mar.15, 1951. 1.9 P69P

42336 WESTBERG, D. L. Cultivating boosts fusiform rust infection. J. Forestry 49:253. Apr.1951. 99.8 F768

Cronartium fusiforme on Pinus caribaea and P. taeda.

42337 WILLINS, H. H. National Oak Research Committee formed to seek means of eliminating oak wilt. Natl. Hardwood Mag. 25(3):50. Apr.1951. 99.81 N212

42338 YARWOOD, C. E., and COHEN, M. Hyper-trophy from the uredial stage of bean rust. Bot. Gaz. 112:294-300. Mar.1951. 450 B652

42339 YOUNG, H. E. Oidium leaf disease. Rubber Res. Scheme Ceylon. Adv. C. 28, 6 p. Nov.1950. 78.9 R826

42340 YOUNKIN, S. G. Elimination of late blight as a serious tomato threat is possible. News & Views Campbell's 6(2):1,4. Feb.1951. 6 N472

#### Diseases Caused by Bacteria

42341 ANDERSEN, A. L. Bacterial diseases of Michigan navy pea beans. Mich. Agr. Expt. Sta. Q. B. 33: 199-200. Feb.1951. 100 M58S

Xanthomonas phaseoli.

42342 ARK, P. A., and FERRIS, C. A. Walnut blight control in Tulare County [California] pre-bloom spray most important. Diamond Walnut News 33(2):4-5. Mar. 1951. 94.68 D34

42343 ARK, P. A., and SCOTT, C. E. Walnut blight; three compounds found effective in prebloom-postbloom spray program. Calif. Agr. [Calif. Sta.] 5(3):7,14. Mar. 1951. 100 C12Cag

Copper compounds to control Xanthomonas juglandis.

Also in Calif. Farmer, North. Ed. 194:350. Apr.7,1951 6C126

42344 BIRAGHI, A. Observations on bacterial wilt of corn in Italy. (In Italian.) Sta. di Patol. Veg. B. (ser.3):6:9-18. Ref. 1948,pub.1950. 464.9 R662

English summary.

Xanthomonas stewartii.

42345 CARPENTER, T. R. An evaluation of fire-blight resistance in pear seedlings. (Abs.) Ind. Acad. Sci. Proc. (1949)59:40. 1950. 500 In2

42346 CICCARENE, A., and CARILLI, A. Observations in the field on Corynebacterium michiganense (Smith) Jensen and consideration of a possible case of survival in soil. (In Italian.) Sta. di Patol. Veg. B. (ser.3):6:177-179. 1948,pub.1950. 464.9 R662

English summary.

On tomato.

42347 GARRIGUES, R. Les atypies mitotiques dans les tumeurs à Phytomonas tumefaciens. Soc. de Biol. Compt. Rend. 144:1457-1458. Nov.1950. 442.9 P21

In Vicia faba.

42348 GARRIGUES, R. Sur l'origine des cellules atypiques dans le cancer et les tumeurs à Phytomonas tumefaciens. Soc. de Biol. Compt. Rend. 144:1459-1460. Nov.1950. 442.9 P21

42349 PATEL, M. K., KULKARNI, Y. S., and DHANDE, G. W. Bacterial leaf-spot of castor. Cur. Sci. 20:20. Jan.1951. 475 Sci23

42350 REITSMA, J., and SCHURE, P. S. J. "Kresek", a bacterial disease of rice. Indonesia. Gen. Agr. Res. Sta. Contrib. 117,17 p. Dec.1950. 109.5 Ea73

42351 RUDAKOV, K. I., STARYGINA, L. P., and SHISHELOVA, N. A. Soft rot of vegetables. (In Russian.) Vsesoyuzn. Akad. Sel'skokhoz. Nauk im V. I. Lenina. Dok. 15(10):25-28. Ref. 1950. 20 Ak1

Caused by Erwinia carotovora and Bacillus polymixa.

42352 TESSI, J. L. Estado actual de los trabajos sobre Xanthomonas translucens var. cerealis. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:200. 1950. 59.9 P41

42353 TESSI, J. L. Razas de "Pseudomonas coronafaciens" y comportamiento de algunas avenas. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:199. 1950. 59.9 P41

42354 THEIS, T. N., RIKER, A. J., and ALLEN, O. N. The destruction of crown-gall bacteria in periwinkle by high temperature with high humidity. Amer. J. Bot. 37: 792-801. Ref. Dec.1950. 450 Am36

Agrobacterium tumefaciens on Lochnera rosea.

42355 YOUNG, R. A., and MILBRATH, J. A. Bacterial ring rot of potatoes. Oreg. Agr. Expt. Sta. C. Inform. 491,5 p. Jan.1951. 100 Or3C

#### Viruses and Virus Diseases

42356 BERGMANN, M. E. Microscopic studies of inclusion bodies found in plants infected with tobacco mosaic virus. Science 113:415-417. Apr.13,1951. 470 Sci2

42357 BERGMANN, M. E., and FANKUCHEN, I. X-ray diffraction studies of inclusion bodies found in plants infected with tobacco mosaic virus. Science 113:415. Apr.13,1951. 470 Sci2

42358 BITTERS, W. P., and PARKER, E. R. Horticultural aspects of quick decline. Calif. Citrog. 36:222, 264. Apr.1951. 80 C125

42359 BONDE, R., and MERRIAM, D. Potato spindle tuber control. Maine. Agr. Expt. Sta. B. 487,15 p. Feb.1951. 100 M28S

42360 BROADBENT, L. Lettuce mosaic in the field. Gt. Brit. Min. Agr. Agriculture 57:578-582. Mar.1951. 10 G79J

42361 COSSLETT, V. E. Remarks on the crystalline structure of some plant viruses. Conf. Electron Micros. Proc. 1949:152-155. 1950. 440.9 C76

42362 DOUCETTE, C. F. Growth behavior of virus-infected daffodils. Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:13. 1950. 81 N817

42363 FRAZIER, N. W. Fragaria bracteata Heller as an indicator plant of strawberry viruses. Plant Dis. Rptr. 35:127-128. Mar.15,1951. 1.9 P69P

42364 GENDRON, Y., and LIMASSET, P. Etude comparée des réactions sérologiques fournies par des jus de betteraves saines et infectées par le virus de la jaunisse (Corium betae Holmes). Inst. Pasteur. Ann. 80:215-217. Feb.1951. 448.3 An75

42365 GIGANTE, R. Peach mosaic. (In Italian.) Sta. di Patol. Veg. B. (ser.3):6:19-30. Ref. 1948,pub.1950. 464.9 R662

English summary.

42366 HALMA, M. Yellows disease. (In Dutch.) Plattelands-Post 7(10):6. Mar.10,1951. 12 P69

In beets.

42367 HOWLES, R. Virus diseases. Tomato & Stone Fruit J. 15(227):5-6. (To be cont.) Dec.12,1950. 80 T592

Tobacco as a source of infection for tomatoes.

42368 KHRISTOFF, A. La déformation mosaïque du prunier en Bulgarie. (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis. 18(2):3-38. Ref. 1950. 106.3 R32

French summary.

42369 KHRISTOVA, E. La mosaïque sur la betterave en Bulgarie. (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis. 18(1):89-100. 1950. 106.3 R32

French summary.



## ECOLOGY

- 42370 LARSEN, O. D. Better seed potatoes. (In Norwegian.) Norsk Landbr. 17:87-89. Mar.2,1951. 11 N8122  
Control of virus diseases.
- 42371 MILLER, P. W., and ALDRICH, F. D. Studies on the detection of viruses in the leaves of strawberries by the Lindner staining procedure. Plant Dis. Rptr. 35: 131-133. Mar.15,1951. 1.9 P69P
- 42372 MILLER, P. W. Wild strawberries as a source of strawberry virus infection. Plant Dis. Rptr. 35:129-130. Mar.15,1951. 1.9 P69P
- 42373 NICKELL, L. G. Effect of certain dyes on the growth in vitro of virus tumor tissue from Rumex acetosa. Bot. Gaz. 112:290-293. Mar.1951. 450 B652
- 42374 NICKELL, L. G. Effect of certain plant hormones and colchicine on the growth and respiration of virus tumor tissue from Rumex acetosa. Amer. J. Bot. 37:829-835. Ref. Dec.1950. 450 Am36
- 42375 SCHROEDER, W. T. An unusually heavy development of pea enation mosaic on 218 lines of pea in the field. Plant Dis. Rptr. 35:156-160. Mar.15,1951. 1.9 P69P
- 42376 SIBILIA, C. A probable mosaic of sulla (Hedysarum coronarium). (In Italian.) Sta. di Patol. Veg. B. (ser.3)6:175-176. 1948,pub.1950. 464.9 R662  
English summary.
- 42377 SIBILIA, C. A virosis of Plantago lanceolata L. new to Italy. (In Italian.) Sta. di Patol. Veg. B. (ser.3)6:193-194. 1948,pub.1950. 464.9 R662  
English summary.
- 42378 SILVA, P. A morte súbita dos cacauzeiros [Sudden death of cacao]. Recife,Imprensa Oficial,1950. 8 p. 464.09 S13
- 42379 STERRE, R. L. Virus increment curves based upon counts of particles in plant juice prepared by new and rapid procedures for electron microscopy. Mich. U. Microfilm Abs. 11:28-29. 1951. 241.8 M58  
Plants infected with tobacco mosaic and tomato bushy stunt viruses.
- 42380 SUGI, T., MIYAMOTO, K., and SHIMIZUGUCHI, T. The relation between the infection of potato virus disease and seasonal variation of aphids population in the warmer region of Japan, with special reference to the translocation of virus poison. (In Japanese.) Tokyo. Natl. Agr. Expt. Sta. Chugoku Br. Contrib. 15:137-142. 1950. 107.6 T5752  
English summary.
- 42381 WOLFE, H. R. Stone fruit virus diseases spread by insects. West. Fruit Grower 4(10):9-10. Oct. 1950. 95.8 G762

Diseases Caused by Nematodes

- 42382 BURROUGHS, D. The nematode and the vegetable grower. Mkt. Growers J. 80(3):30-31. Mar.1951. 6 M34
- 42383 CHITWOOD, B. G. Root-knot nematodes. II. Quantitative relations of the root-knot nematode-Meloidogyne hapla Chitwood, 1949 with tomatoes, onions and lima beans. Plant & Soil 3:47-50. Jan.1951. 450 P696
- 42384 COURTNEY, W. D. I have a lovely bunch of nematodes. Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:7-8. 1950. 81 N817
- 42385 REYNOLDS, H. W. The occurrence of the sugar-beet nematode in Arizona. Plant Dis. Rptr. 35: 173. Mar.15,1951. 1.9 P69P
- 42386 ROSELLA, E. Contre l'anguillule des oeillets et des tomates on peut désinfecter la terre. Réveil Agr. 60:70-71. Mar.1,1951. 14 R322
- 42387 SASSER, J. N., FELDMESSER, J., and FASSULIOTIS, G. Studies on the control of golden nematode of potatoes, with systox spray (E-1059), an organic phosphate insecticide. Plant Dis. Rptr. 35:152-155. Mar.15,1951. 1.9 P69P
- 42388 SMITH, H. W. Some problems encountered in nematode screening. (Abs.) Ind. Acad. Sci. Proc. (1949)59:156. 1950. 500 In2
- 42389 WESTER, R. E. A comparison of greenhouse and field methods for evaluating lima beans for resistance to root knot nematodes. Amer. Soc. Hort. Sci. Proc. 56:395-400. Dec.1950. 81 S012
- 42390 ZUNINO, H. A. Dispersión de nematodos por la semilla - su control. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:103-105. 1950. 59.9 P41
- 42391 BALDWIN, H. I. The application of ecological knowledge to forestry. Sci. Mon. 72:225-229. Apr.1951. 470 Sci23
- 42392 BERZAGHI, M. N. Crops and environment. I. (In Portuguese.) Rev. dos Mercados 1(4):21-23. Dec. 1950. 286.8 R328
- 42393 CACCIATO, A. Floristic notes from the Roman region. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:650-652. 1949. 450 N92
- 42394 GOODNIGHT, C. J. The problems of making ecological observations in a tropical rain forest. (Abs.) Ind. Acad. Sci. Proc. (1949)59:291. 1950. 500 In2
- 42395 KARPOV, V. G. On the effect of environment of steppe pine groves on the growth and development of young [self-seeded] Pinus. (In Russian.) Akad. Nauk SSSR. Dok. 75:753-756. Dec.11,1950. 511 P444A
- 42396 KERNER, A. J., RITTER VON MARILAUN. The background of plant ecology. A translation from the German, by Henry S. Conard. Ames,Iowa State Col. Press,1951. 238 p. 459 K45Ae  
Translation of his Das Pflanzenleben der Donäuländer.
- 42397 LITTLE, S. Observations on the minor vegetation of the pine barren swamps in southern New Jersey. Torrey Bot. Club. B. 78:153-160. Mar./Apr.1951. 451 T63B
- 42398 LONA, F. Preliminary report on the ecology of development. Cycle of generative development and vegetative cycle in relation to variations in altitude. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:516-534. Ref. 1949. 450 N92  
English summary.  
Tests with wheat, oats and other field crops.
- 42399 MCQUEENEY, C. R. An ecological study of the relationship between direction of slope, elevation and forest cover in Brown County, Indiana. (Abs.) Ind. Acad. Sci. Proc. (1949)59:45-46. 1950. 500 In2
- 42400 MARTINOLI, G. Buxus balearica Willd., West Mediterranean element of the flora of Sardinia. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:557-575. Ref. 1949. 450 N92  
English summary.
- 42401 MARTINOLI, G. The different levels of vegetation to which Hyacinthus fastigiatus belongs. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:679-684. Ref. 1949. 450 N92
- 42402 MARTINOLI, G. Satureja thymbra L., and East-Mediterranean element of the flora of Sardinia. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:576-592. Ref. 1949. 450 N92  
English summary.
- 42403 MONTELUCCI, G. Ecologic notes on some special (or new) plants of the Roman flora and their role in the constitution of the vegetation of Latium. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:366-418. Ref. 1949. 450 N92  
English summary.
- 42404 MONTELUCCI, G. Exotic plant associations of the Po region. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:690-693. 1949. 450 N92
- 42405 PHILIPPIS, A. DE. A remarkable vegetation center of Abies concolor on the Salernitano mountains. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:656-658. 1949. 450 N92
- 42406 POTZGER, J. E., and POTZGER, E. Secondary succession in an Illinoisian Tillplain habitat. Ind. Acad. Sci. Proc. (1949)59:95-101. 1950. 500 In2
- 42407 PURI, G. S., and GUPTA, A. C. The Himalayan conifers. II. The ecology of humus in conifer forests of the Kulu Himalayas. Indian Forester 77:55-63. Jan.1951. 99.8 In2
- 42408 REIS, H. Notes on the ecology of wheats. (In Portuguese.) Granja [Lisboa] 9:189-195. July/Sept.1950. 15.5 G76
- 42409 RINALDI, A. Floristic notes. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:734-735. 1949. 450 N92
- 42410 RINALDI, A. Variations in the Flora of Padua in the ten-year period 1939-1949. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:471-472. 1949. 450 N92
- 42411 SALLUSTO, C. Plants growing along the shore at Molfetta (Bari Province). (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:345-356. 1949. 450 N92  
English summary.



42412 SAPPÀ, F. Locality for *Asplenium fissum* Kit. noticed at the time of the excursion to Limone Piemonte with the Botanical Society of France. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:727-730. 1949. 450 N92

An ecological study.

42413 SAPPÀ, F. Locality for *Trifolium saxatile* All. in the Susa Valley (Val Doria Riparia). (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:731-733. 1949. 450 N92

An ecological study.

42414 SCHRETZENMAYR, H. Die wichtigsten kahl-schlaggesellschaften des mittleren Thüringer waldes und ihre standörtliche beurteilung. *Forstwirt. Holzwirt.* 4: 342-345. Nov.1/15.1950. 99.8 F7793

42415 STEWART, O. C. Burning and natural vegetation in the United States. *Geog. Rev.* 41:317-320. Apr. 1951. 500 Am35G

42416 TSYMEK, A. A. On group distribution of trees in the mixed coniferous and greenwood forests of the Far East [U.S.S.R.]. (In Russian.) *Lesn. Khoz.* 3(7):63. July 1950. 99.8 L5622

42417 VIGNOLO-LUTATI, F. Some floristic notes. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:475. 1949. 450 N92

42418 WRIGHTON, F. E. City bombed sites survey. *Plant ecology at Cripplegate*, 1949. London Nat. (1949)29: 85-88. 1950. 420 L843

42419 ZEIST, W. VAN. An investigation into the earlier vegetation of central Friesland (The Netherlands). *Rec. des Trav. Bot. Néerland.* (1949/50)42:28-40. Ref. Dec.1950. 451 N28R

42420 ZENARI, S. Fog as a "limiting factor" in the vegetation of the high mountains. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:425-440. Ref. 1949. 450 N92

English summary.

## MORPHOLOGY, ANATOMY, AND CYTOLOGY

42421 ALLARD, H. A. The ratios of clockwise and counterclockwise spirality observed in the phyllotaxy of some wild plants. *Castanea* 16:1-6. Ref. Mar.1951. 450 So82

42422 ARMENISE, V. Early stages of phellogen differentiation in the young branches of the olive tree. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:357-365. 1949. 450 N92

English summary.

42423 BALDWIN, J. T., JR., and SPEESE, B. M. Cytogeography of Clappertonia in West Africa. *Torrey Bot. Club. B.* 78:161-163. Mar./Apr.1951. 451 T63B

42424 BALDWIN, J. T., JR., and SPEESE, B. M. *Penthorum*: its chromosomes. *Rhodora* 53:89-91. Ref. Mar.1951. 450 R34

42425 BISSET, I. J. W., and DADSWELL, H. E. The variation in cell length within one growth ring of certain angiosperms and gymnosperms. *Austral. Forestry* 14: 17-29. Ref. 1950. 99.8 Au74

42426 BOGDANSKI, C. Tératogénie et tératologie expérimentales chez les végétaux. *Ann. Biol.* 54:653-672. Ref. Nov.1950. 442.8 An7

42427 BOUILLENNE, R. La rhizogenèse. *Ann. Biol.* 54:597-628. Ref. Oct.1950. 442.8 An7

Includes discussion.

42428 BURSTROM, H. Mechanisms of cell elongation. In Skoog, F., ed. *Plant growth substances*, p.43-55. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5

42429 BUVAT, R. Evolution histologique du point végétatif de *Myosurus minimus* L. *Acad. des Sci. Compt. Rend.* 232:1011-1013. Mar.5.1951. 505 P21

42430 CÂMARA, A. Advances in the study of the centromere. (In Portuguese.) *Brotéria* 20:5-34. Ref. 1951. 410 B79C

Observations on *Luzula* spp.

42431 CAVAZZA, L. Recherches sur l'imperméabilité des graines dures chez les légumineuses. *Schweiz. Bot. Gesell. Ber.* 60:596-610. Ref. 1950. 451 Sch9

42432 CHRISTEN, H. R. Untersuchungen über die embryologie pseudogamer und sexueller Rubusarten. *Schweiz. Bot. Gesell. Ber.* 60:153-198. Ref. 1950. 451 Sch9

42433 CINI, M. Observations on the embryology of *Nerine rosea* and *Amaryllis belladonna* (Amaryllidaceae). (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:441-450. 1949. 450 N92

English summary.

42434 CORTI, R. Embryogeny of *Retama raetam* (Forsk.) Webb. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.) 56:652-655. 1949. 450 N92

42435 CRÉTÉ, P. Embryogénie des Papilionacées. Développement de l'embryon chez l'*Astragalus glycyphyllos* L. *Acad. des Sci. Compt. Rend.* 232:1009-1011. Mar. 5.1951. 505 P21

42436 DECOLLOGNY, P. A propos de "pives." *Forêt* 4:42-43. Dec.1950. 99.8 F7683

*Picea*.

42437 DEMARET, F. Une capsule double chez *Mnium hornum* Hedw. *Brussels. Jard. Bot. de l'État. B.* 20:325-331. Dec.1950. 451 B83B

42438 DERMEN, H., and SCOTT, D. H. Chromosome counts in apple and strawberry aided by paradichlorobenzene. *Amer. Soc. Hort. Sci. Proc.* 56:145-148. Dec.1950 81 So12

42439 DERMEN, H. Pattern reversal in variegated plants; an explanation of reversal in coloration in the histogenic type of variegation. *J. Hered.* 41:325-328. Dec.1950. 442.8 Am3

Observations on poinsettia (*Euphorbia pulcherrima*) and privet (*Ligustrum vulgare*).

42440 ELGIN, N. Monographies pharmacognostiques des plantes médicinales de la Turquie. IV. Les caractères morphologiques et anatomiques du *Peganum harmala* L. (*Zygophyllées*). *Istanbul. Ü. Fen. Fakül. Mecmuası. Ser. B, Tabii İlimler* 15:333-361. Ref. Oct.1950. 475 Is7

42441 ELLENGORN, I. A. E., and SVETOZAROVA, V. V. Phenomenon of polarity in plant cells. (In Russian.) *Zhur. Obshch. Biol.* 11:359-366. Ref. Sept./Oct.1950. 442.8 Z6

42442 FICKER, T. Chromosomes of two narrow-leaved *Amaryllis* species, and the generic type species, *Amaryllis belladonna* L. *Plant Life* 7:68-71. 1951. 450 P695

42443 FOSTER, A. S. Venation and histology of the leaflets in *Touroulla gulanensis* Aubl. and *Froesia tri-carpa* Pires. *Amer. J. Bot.* 37:848-862. Ref. Dec.1950. 450 Am36

42444 GAISER, L. O. Chromosome studies in *Liatris*. III. *Punctatae*. *Amer. J. Bot.* 37:763-777. Ref. Nov.1950. 450 Am36

42445 GALINAT, M. Observations sur le tégument des graines. I-II. *Paris. Mus. Natl. d'Hist. Nat. B.* (ser.2)22:379-387. (Concl.) Ref. May 1950. 410.9 P213

II, Dissémination des graines; III, Coloration du tégument.

42446 GARDÉ, A. Sur la caryologie de l'*Airopsis tenella* (Cav.) Coss. *Brotéria* 20:35-37. 1951. 410 B79C

42447 GHISLENI, P. L. Observations on the first development of the root system of asparagus (*Asparagus officinalis* L.). (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.) 56:612-627. 1949. 450 N92

English summary.

42448 GRASSI, G. V. An investigation of the root-stem transition of *Phaseolus coccineus* Willd. (Abs.) *Ind. Acad. Sci. Proc.* (1949)59:43. 1950. 500 In2

42449 GUEYDON, L. La fleur, sa composition son rôle. *Réveil Agr.* 60:39-40. Feb.1,1951. 14 R322

42450 HARTMANN, H. T. Time of floral differentiation of the olive in California. *Bot. Gaz.* 112:323-327. Mar.1951. 450 B652

42451 HEASLIP, M. B. Some cytoecological aspects in the evolution of certain species of the plant genus *Silene*. *Ohio J. Sci.* 51:62-70. Ref. Mar.1951. 410 Oh3

42452 KERR, T. Growth and structure of the primary wall. In Skoog, F., ed. *Plant growth substances*, p.37-42. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5

42453 LEROY, J. F. Contre la théorie généralisée des carpelles-sporophylles. II. Phylogénie structurale de la placentation dans le groupe *Juglans-Carya* (Juglandaceae). *Acad. des Sci. Compt. Rend.* 232:1007-1009. Mar.5.1951. 505 P21

42454 LEWIS, F. T. Reciprocal cell division in epidermal and subepidermal cells. *Amer. J. Bot.* 37:715-721. Ref. Nov.1950. 450 Am36

42455 LOCQUIN, M. Structure de la membrane des spores de *Myxomycetes*. *Conf. Electron Micros. Proc.* 1949:150-151. 1950. 440.9 C76

42456 LONA, F. Nomophylly as an index to the transformation of the reproductive phase in *Chenopodium amaranticolor*. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.) 56:661-75. 1949. 450 N92

English summary.

42457 MAUGINI, E. The evolution of the wood ring in *Quercus pubescens* W. and in *Quercus ilex* L. in Florence (from June 1946 to June 1947). (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:593-611. 1949. 450 N92

English summary.



- 42459 MESSERI, A. Anatomical observations on tapped pines [*Pinus halepensis*]. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:315-327. 1949. 450 N92  
English summary.
- 42459 MEYER, G. Note on the floral morphology of Mabea (Euph.). *Rec. des Trav. Bot. Néerland.* (1949/50) 42:65-69. Dec.1950. 451 N28R
- 42460 MORE, E. Vergleichend-morphologische untersuchungen am gynoeceum der Saxifragaceen. *Schweiz. Bot. Gesell. Ber.* 60:516-590. Ref. 1950. 451 Sch9
- 42461 MÜHLETHALER, K. Elektronenmikroskopische untersuchungen über den feinaufbau und das wachstum der zellmembranen in mais- und haferkoleoptilen. *Schweiz. Bot. Gesell. Ber.* 60:614-628. Ref. 1950. 451 Sch9
- 42462 MÜHLETHALER, K. Structure of seed mucilages. *Conf. Electron Micros. Proc.* 1949:135-136. 1950. 440.9 C76
- 42463 NAYLOR, S. Spines. *Cactus & Succulent J. Gt. Brit.* 13:20-21. Jan.1951. 450 C113  
With comment by E. Shurly.
- 42464 OGUR, M., and others. Nucleic acids in relation to cell division in *Lilium longiflorum*. *Expt. Cell Res.* 2:73-89. Ref. Feb.1951. 442.8 Ex7  
R. O. Erickson, G. U. Rosen, K. B. Sax, and C. Holden, joint authors.
- 42465 OHTANI, Y., NISHIMURA, S., and TAKAI, S. Physiological studies on the stamping of wheat. IV. On the mechanism of morphological changes caused by stamping. (In Japanese.) *Tokyo. Natl. Agr. Expt. Sta. Chugoku Br. Contrib.* 16:197-200. 1950. 107.6 T5752  
English summary.
- 42466 OLIVE, L. S. A cytological study of ascus development in *Patella melaloma* (Alb. & Schw.) Seaver. *Amer. J. Bot.* 37:757-763. Ref. Nov.1950. 450 Am36
- 42467 ÖSTERGREN, G. The mechanism of co-orientation in bivalents and multivalents; the theory of orientation by pulling. *Hereditas* 37:85-156. Ref. 1951. 442.8 H42  
Based on plant meiosis observations.
- 42468 PALIWAL, R. L. Polarity of male cells in pollen grains of some Umbelliferae. *Cur. Sci.* 20:17. Jan.1951. 475 Sci23
- 42469 PERVUKHINA, N. V. In regard to the nature of the ovary in Umbelliferae. (In Russian.) *Akad. Nauk SSSR. Dok.* 75:749-752. Ref. Dec.11,1950. 511 P444A
- 42470 RAUT, C. A cytochrome deficient variant of *Saccharomyces cerevisiae*. (Abs.) *Genet. Soc. Amer. Rec.* 19:120. 1950. 442.9 G28
- 42471 REEVES, R. G. Morphology of the ear and tassel of maize. *Amer. J. Bot.* 37:697-704. Ref. Nov. 1950. 450 Am36
- 42472 ROELOFSEN, P. A. The origin of spiral growth in *Phycomyces sporangiothecae*. *Rec. des Trav. Bot. Néerland.* (1949/50)42:72-110. Ref. Dec.1950. 451 N28R
- 42473 RÜDIGER, W. Morphologisch-anatomische untersuchungen am kelch des leins *Linum usitatissimum* L.; ein betrag zur diagnostik der leinsorten. *Züchter* 21:39-41. 1951. 442.8 Z8
- 42474 SCARAMUZZI, F. Sex in *Rhamnus alaternus* L. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:718-720. 1949. 450 N92
- 42475 SCHAEPPPI, H., and STEINDL, F. Vergleichend-morphologische untersuchungen am gynoeceum der Rosoldeen. *Schweiz. Bot. Gesell. Ber.* 60:15-50. Ref. 1950. 451 Sch9
- 42476 SCHINDLER, H. Über den bau der blüte. *Gartenbauwirtschaft [Wien]* 1951:10-11. Jan.10,1951. 80 G1936
- 42477 SCOTT, R. A. A study of variation in leaf anatomy with reference to habitat in two species of *Podium*. *Ind. Acad. Sci. Proc.* (1949)59:102-111. Ref. 1950. 500 In2
- 42478 SCURTI, I. Action at a distance of the mycelium in new formations of *Ustilago maydis*. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:740-741. 1949. 450 N92
- 42479 SHKURATENKO, Z. V. On the behavior of stomata in arctic plants. (In Russian.) *Akad. Nauk SSSR. Dok.* 75:579-582. Ref. Dec.1,1950. 511 P444A
- 42480 SMOCK, R. M. Factors affecting the structure and behavior of apples. *Mountaineer Grower* 21(185):13-17. Feb.1951. 80 M86
- 42481 STEVENS, O. A. Seed study. *N. Dak. Outdoors* 13(9):16-17. Mar.1951. 412.9 N815
- 42482 STOVER, E. L. An introduction to the anatomy of seed plants. Boston, Heath, 1951. 274 p. 463.41 St7
- 42483 STRUCKMEYER, B. E. Blossom bud induction and differentiation in *Hydrangea*. *Amer. Soc. Hort. Sci. Proc.* 56:410-414. Dec.1950. 81 So12
- 42484 SUBRAMANYAM, K. Origin and nature of haustoria in *Lobelia cardinalis*. *Bot. Gaz.* 112:319-322. Ref. Mar.1951. 450 B652
- 42485 VAN FLEET, D. S. A comparison of histochemical and anatomical characteristics of the hypodermis with the endodermis in vascular plants. *Amer. J. Bot.* 37:721-725. Ref. Nov.1950. 450 Am36
- 42486 VERGNANO, O. The evolution of the wood ring in *Arbutus andrachnoides* Link. in Florence (from July 1946 to June 1947). (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:639-645. 1949. 450 N92  
English summary.

## GENETICS

- 42487 ATWOOD, S. S., and BREWBAKER, J. L. Multiple oppositional alleles in autopoloid white clover. (Abs.) *Genet. Soc. Amer. Rec.* 19:87. 1950. 442.9 G28
- 42488 BALASUBRAHMANYAN, R., and SANTHANAM, V. Inheritance of "pistillate" in cotton. *Cur. Sci.* 20:17. Jan.1951. 475 Sci23
- 42489 BARHAM, W. S., and MUNGER, H. M. The stability of male sterility in onions. *Amer. Soc. Hort. Sci. Proc.* 56:401-409. Dec.1950. 81 So12
- 42490 BELL, G. D. H. Some British plant breeding problems. *Agr. Prog.* 25:15-24. 1950. 10 Ag86
- 42491 BIRAGHI, A. A possible reversion in chestnut (In Italian.) *Sta. di Patol. Veg. B.* (ser.3)6:3-8. 1948, pub.1950. 464.8 R662  
English summary.
- 42492 BLANCO, J. L. Pollen size and quantitative inheritance in maize. (Abs.) *Genet. Soc. Amer. Rec.* 19:88-89. 1950. 442.9 G28
- 42493 BONNER, D. M. The Q locus of *Neurospora*. (Abs.) *Genet. Soc. Amer. Rec.* 19:89-90. 1950. 442.9 G28
- 42494 BOWEN, C. C., and WILSON, G. B. Some factors correlated with differential reactivity in the somatic chromosomes of *Trillium*. (Abs.) *Genet. Soc. Amer. Rec.* 19:90. 1950. 442.9 G28
- 42495 BRITTINGHAM, W. H. The inheritance of date of pod maturity, pod length, seed shape and seed size in the southern pea, *Vigna sinensis*. *Amer. Soc. Hort. Sci. Proc.* 56:381-388. Dec.1950. 81 So12
- 42496 BROWN, M. S. The spontaneous occurrence of amphiploidy in species hybrids of *Gossypium*. *Evolution* 5:25-41. Ref. Mar.1951. 443.8 Ev62
- 42497 BURNHAM, C. R. Crossingover in an inversion heterozygote. (Abs.) *Genet. Soc. Amer. Rec.* 19:93. 1950. 442.9 G28  
Corn.
- 42498 CAPINPIN, J. M., and IRABAGON, T. A. A genetic study of pod and seed characters in *Vigna*. *Philippine Agr.* 33:263-277. Apr./June 1950. 25 P542
- 42499 CORNELL UNIVERSITY. DEPT. OF PLANT BREEDING. Maize Genetics Cooperation News Letter, 25. Ithaca, 1951. 68 p. 59.9 C813
- 42500 CRESCINI, F. Verification of systems of mass crossing applied to wheat. (In Italian.) *Cong. Agr. Naz. Atti* 1948:483-488. 1950. 27 C7625
- 42501 DENMARK. STATENS PLANTEAVLSUDVALG. Beretning fra Statens Planteavlsudvalg for finansåret 1959-50 [Report of the State Plant Breeding Committee for the fiscal year 1949-50]. København, 1950. 93 p. 11 D412A
- 42502 DILLEMANN, G. Hérité du principe cyanhydrique chez les hybrides de deuxième génération et les hybrides en retour dans les croisements interspécifiques de *Linaria*. *Soc. de Biol. Compt. Rend.* 144:1472-1475. Nov.1950. 442.9 P21
- 42503 DOUWES, H. The cytological relationships of *Gossypium somalense* Gürke. *J. Genet.* 50:179-191. Ref. Jan.1951. 442.8 J823
- 42504 DROST, J. C. Breve descripción de las principales actividades del Instituto para el Mejoramiento de las Plantas de Gran Cultivo, en Wageningen, Holanda. *Bolsa de Com., Rosario. Rev.* 39(936):27-30, 32-34. Jan. 15, 1951. 287 R71
- 42505 EVERETT, H. L. A proposed relationship between suppressor gene mutants and heterosis. (Abs.) *Genet. Soc. Amer. Rec.* 19:97. 1950. 442.9 G28  
Zea mays.



- 42506 FIEDLER, J. The anatomic variability and its utilization for the selection of plants. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 23:181-185. 1950. 19.5 C332C  
English summary.
- 42507 FINCHAM, J. R. S. A comparative genetic study of the mating-type chromosomes of two species of *Neurospora*. *J. Genet.* 50:221-229. Ref. Jan.1951. 442.8 J823
- 42508 FORD, L. E. A genetic study involving male sterility in *Coleus*. (Abs.) *Genet. Soc. Amer. Rec.* 19:98. 1950. 442.9 G28
- 42509 FOX, A. S., and GRAY, W. D. Enzymatic (tyrosinase) differences between the mating types of strain 15300 (albino-2), *Neurospora crassa*. (Abs.) *Genet. Soc. Amer. Rec.* 19:98. 1950. 442.9 G28
- 42510 GAISER, L. O. Evidence for intersectional field hybrids in *Liatris*. *Evolution* 5:52-67. Ref. Mar. 1951. 443.8 Ev62
- 42511 GROOTE, R. DE. Chemical plant breeding with Gammexane. (In Flemish.) *Cult. en Handel* 17:122. Feb.1951. 80 C892
- 42512 HAGBERG, A., and TEDIN, O. Inter- and intracross crosses and inbreeding in potatoes. *Hereditas* 37:280-287. 1951. 442.8 H42
- 42513 HALL, B. M. Genetic analysis of interspecific hybrids in the genus *Bromus*, section *Ceratochloa*. (Abs.) *Genet. Soc. Amer. Rec.* 19:102-103. 1950. 442.9 G28
- 42514 IBRAHIM, M. A. E. Cytogenetic studies of tertiary trisomics in maize. (Abs.) *Genet. Soc. Amer. Rec.* 19:105-106. 1950. 442.9 G28
- 42515 JENKINS, M. T. Genetic improvement of food plants for increased yield. *Amer. Philos. Soc. Proc.* 95:84-91. Ref. Feb.13,1951. 500 P533
- 42516 KEHR, A. E. Genetic tumors in *Nicotiana*. *Amer. Nat.* 85:51-64. Ref. Jan./Feb.1951. 470 Am36
- 42517 KOELLE, G. Untersuchungen zur zytogenetik der Nicotianen. *Tabak-Forschung* 1951(5):7-8. In *Süd-deut. Tabakztg.* 61(8). Feb.23,1951. 286.89 Su2
- 42518 LARSON, R. E. A comparison of combining abilities of a monorecessive male-sterile Earliana mutant and a normal Earliana tomato. *Amer. Soc. Hort. Sci. Proc.* 56:358-362. Dec.1950. 81 So12
- 42519 LAUGHMAN, J. R. Further studies on the mutation of *Ab* in maize. (Abs.) *Genet. Soc. Amer. Rec.* 19:108. 1950. 442.9 G28
- 42520 LEWIS, H. The geographical distribution of supernumerary chromosomes in natural populations of *Clarkia elegans* Dougl. (Abs.) *Genet. Soc. Amer. Rec.* 19:108-109. 1950. 442.9 G28
- 42521 LODEN, H. D. Genetic evidence of cryptic cytological differences in *Gossypium hirsutum* (L.) and *Gossypium barbadense* (L.). (Abs.) *Genet. Soc. Amer. Rec.* 19:110. 1950. 442.9 G28
- 42522 LUONG, D. C. A newly devised colchicine method for inducing polyploidy in rice. *Bot. Gaz.* 112:327-329. Mar.1951. 450 B652
- 42523 LUTOKHIN, S. N. Vegetative approach [grafting] of annual plants from different families. (In Russian.) *Priroda* 39(10):56-58. Oct.1950. 410 P933
- 42524 MCNAMARA, H. C., and PORTER, D. D. Heritable abnormalities in cotton and their segregation ratios. *J. Hered.* 41:311-315. Dec.1950. 442.8 Am3
- 42525 MAL'TSEV, T. On developing salt resistant varieties of spring wheat. (In Russian.) *Kolkhoz. Proizvodstvo* 10(9):25-26. Sept.1950. 281.8 K83
- 42526 MÜNTZING, A. Cyto-genetic properties and practical value of tetraploid rye. *Hereditas* 37:17-84. Ref. 1951. 442.8 H42
- 42527 NIELSEN, V. H. Variety development in English plant breeding. (In Danish.) *Dansk Landbr.* 70:99. Feb.22,1951. 280.28 V91
- 42528 NILAN, R. A. *Rhizoma alfalfa*: chromosome studies of the parent stocks. *Sci. Agr.* 31:123-126. Mar. 1951. 7 Sci2
- 42529 O'MARA, J. G. The effects of chromosome substitution on competition between gametes. (Abs.) *Genet. Soc. Amer. Rec.* 19:116. 1950. 442.9 G28
- Triticum vulgare* and *Secale cereale*.
- 42530 PADDOCK, E. F. A tentative assignment of the *Fusarium-immunity* locus to linkage group 5 in tomato. (Abs.) *Genet. Soc. Amer. Rec.* 19:117-118. 1950. 442.9 G28
- 42531 PALAMARCHUK, A. S. Evaluation of parental pairs in the first hybrid generation in root crops. (In Russian.) *Selek. i Semen.* 17(10):16-19. Oct.1950. 61.9 Se5
- 42532 PANOVA, V. V. Vegetative hybridization of forage root crops and forage cabbage. (In Russian.) *Selek. i Semen.* 17(11):41-45. Nov.1950. 61.9 Se5
- 42533 RICHENS, R. H. The essentials of the new Soviet genetics. *Agr. Prog.* 25:25-35. 1950. 10 Ag86
- 42534 ROTH, H. Ein gang durch deutsche hochzucht stätten. *Deut. Landwirt. Presse* 74:34. Feb.3,1951. 18 D482
- Plant breeding.
- 42535 SINGLETON, W. R. Corn grass, a dominant monogenic spontaneous mutant, and its possible significance as an ancestral type of corn. (Abs.) *Genet. Soc. Amer. Rec.* 19:125-126. 1950. 442.9 G28
- 42536 SMITH, H. H. Fixing transgressive vigor in *Nicotiana rustica*. (Abs.) *Genet. Soc. Amer. Rec.* 19:126. 1950. 442.9 G28
- 42537 SOOST, R. K. Cytology and genetics of five asynaptic mutants in *Lycopersicon esculentum* Mill. (Abs.) *Genet. Soc. Amer. Rec.* 19:128. 1950. 442.9 G28
- 42538 SPARROW, A. H., and POND, V. Supernumerary chromosomes in diploid and triploid *Trillium erectum* L. (Abs.) *Genet. Soc. Amer. Rec.* 19:128. 1950. 442.9 G28
- 42539 SUBRAMANIAM, M. K., and RAO, L. S. P. Lyophilization and mutation in yeast. *Experientia* 7:98-99. Mar.15,1951. 475 Ex7
- 42540 TEAS, R. J., and ANDERSON, E. G. Blue fluorescent, a new mutant in maize. (Abs.) *Genet. Soc. Amer. Rec.* 19:130-131. 1950. 442.9 G28
- 42541 TRULEVICH, V. K. Experiment in vegetative hybridization of potatoes. (In Russian.) *Sad i Ogorod* 1950(12):61-63. Dec.1950. 80 Sa13
- 42542 VAARAMA, A. Chromosome number and cryptic polyploidy in *Lepidium sativum*. (Abs.) *Hereditas* 37:290-292. 1951. 442.8 H42
- 42543 VOROB'EV, A. I. Osnovy Michurinskoi genetiki [Principles of Michurinite genetics]. Moskva, Sovetskaja Nauka, 1950. 195 p. 463.6 V91
- Plant study chiefly.
- 42544 WELLS, D. G. Inheritance and linkage relations of a crinkled variant in peas. *J. Genet.* 50:230-234. Jan.1951. 442.8 J823
- 42545 WELLS, D. G. Inheritance and linkage relations of some foliage colour mutants in peas. *J. Genet.* 50:215-220. Ref. Jan.1951. 442.8 J823
- 42546 WHITAKER, T. W. The genetics of leaf form in cultivated lettuce. I. The inheritance of lobing. *Amer. Soc. Hort. Sci. Proc.* 56:389-394. Dec.1950. 81 So12
- 42547 ZAKHAREVICH, N. I. Dostizhenija Michurins'ev v vyvedenii novykh sortov rastenij [Achievements of Michurinites in the development of new plant varieties]. Moskva, Gos. Izd-vo Detskoi Lit-ry Ministerstva Prosveshchenija RSFSR, 1950. 63 p. (Estestvenno-Nauchnaja Bibliotekha Shkol'nika) 463.62 Z12
- Fruit chiefly.
- 42548 ZELENSKIĬ, M. A. Controlled development of cold resistance in cherry hybrids. (In Russian.) *Sad i Ogorod* 1950(12):34-35. Dec.1950. 80 Sa13
- 42549 ZIRKLE, C. A possible early eighteenth century record of introgression in oaks. *J. Hered.* 41:315-317. Dec.1950. 442.8 Am3

## PHYSIOLOGY

- 42550 ACEDERACH, M. La vigilia y el sueño de las plantas. *Cult. Mod.* 34:19. Jan.1951. 15 C89
- Reaction to light and other stimuli.
- 42551 AKHROMEYKO, A. I. Role of mycorrhiza in the life of the forest. n.d. 2 p. Translation 6449
- Translated from *Lesnove Khoziasstvo* 5:18-24. 1950.
- 42552 ALBAUM, H. G., and others. Change in adenine nucleotides during growth in plant tissues. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):154-155. Mar.1951. 442.9 F31P
- A. Hirshfeld, T. Cayle, and F. Bonner, joint authors. Studies with mung beans.
- 42553 ALBEN, A. O., and HARRIS, O. W. The relation between the nitrogen content of pecan leaves and yield and quality of nuts produced. (Abs.) *Tex. Pecan Growers Assoc. Proc.* 29:12. 1950. 94.69 T31
- 42554 ALEKSANDROV, V. G. Change in [physiological] functions as a factor which conditions change in structure of wheat kernel. (In Russian.) *Akad. Nauk SSSR. Dok.* 75:575-578. Dec.1,1950. 511 P444A
- 42555 AMATO, F. D'. Chemical constitution and mutagenic activity of acridine derivatives. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.) 56:655-656. 1949. 450 N92
- 42556 AMOS, G. L., BISSET, I. J. W., and DADSWELL, H. E. Wood structure in relation to growth in *Eucalyptus gigantea* Hook. f. *Austral. J. Sci. Res. Ser. B, Biol. Sci.* 3:393-413. Nov.1950. 442.8 Au72



- 42557 ANDERSON, A. J., and SPENCER, D. Molybdenum in nitrogen metabolism of legumes and non-legumes. *Austral. J. Sci. Res. Ser. B, Biol. Sci.* 3:414-430. Ref. Nov.1950. 442.8 Au72
- 42558 ANDERSON, A. J., and SPENCER, D. Sulphur in nitrogen metabolism of legumes and non-legumes. *Austral. J. Sci. Res. Ser. B, Biol. Sci.* 3:431-449. Ref. Nov.1950. 442.8 Au72
- 42559 ANDERSSON-KOTTÖ, I. Mutations in anti-serum treated *Neurospora*. (Abs.) *Hereditas* 37:289-290. 1951. 442.8 H42
- 42560 ASEN, S., and DAVIDSON, O. W. The boron distribution in greenhouse rose plants. *Amer. Soc. Hort. Sci. Proc.* 56:433-438. Ref. Dec.1950. 81 So12
- 42561 ASHBY, W. C. Effects of certain acid growth-regulating substances and their corresponding aldehydes on the growth of roots. *Bot. Gaz.* 112:237-250. Ref. Mar.1951. 450 B652
- 42562 ATTIA, M. S. The nature of incompatibility in cabbage. *Amer. Soc. Hort. Sci. Proc.* 56:369-371. Dec.1950. 81 So12
- 42563 ATTIA, M. S., and MUNGER, H. M. Self-incompatibility and the production of hybrid cabbage seed. *Amer. Soc. Hort. Sci. Proc.* 56:363-368. Dec.1950. 81 So12
- 42564 AVERY, G. S., JR. Stimulation of respiration in relation to growth. In Skoog, F., ed. *Plant growth substances*, p.105-109. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42565 BALDINI, E. Soilless culture. (In Italian.) *Riv. della Ortoflorofrutticoltura. Ital.* 35:33-37. Jan./Feb. 1951. 86 R22
- 42566 BARRONS, K. C. Relative tolerance of crops to sodium TCA 90%. *Down to Earth* 6(4):8-9. Spring 1951. 381 D75
- 42567 BEAL, J. M. Histological responses to growth-regulating substances. In Skoog, F., ed. *Plant growth substances*, p.155-166. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42568 BISHOP, C. J. The influence of polyploidy on the X-ray sensitivity of cells. (Abs.) *Genet. Soc. Amer. Rec.* 19:88. 1950. 442.9 G28
- Tradescantia.
- 42569 BLAKESLEE, A. F. Control of evolution and life processes in plants. In Skoog, F., ed. *Plant growth substances*, p.57-66. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42570 BRANDT, C. L., FREEMAN, P. J., and SWENSON, P. A. The effect of radiations on galactozymase formation in yeast. *Science* 113:383-384. Ref. Apr.6, 1951. 470 Sci2
- 42571 BRAUNER, L., and VARDAR, Y. Über die funktion der lamina bei der phototropischen und geotropischen reaktion des *Tropaeolum*-blattes. *Istanbul. Ü. Fen. Fakül. Mecmuası. Ser. B, Tabii İlimler* 15:269-299. Ref. Oct.1950. 475 Is7
- English summary.
- 42572 BROCKLEBANK, K. Hormone preparations. *Anthroposophical Agr. Found. Notes & Corresp.* (n.s.):1-8-10. Spring 1950. 10 An8
- Plant hormones.
- 42573 BURK, D., and WARBURG, O. One-quantum mechanism and energy cycle in photosynthesis. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):169. Mar.1951. 442.9 F31P
- Experiments with *Chlorella*.
- 42574 BURRIS, R. H. The study of growth substances in plant metabolism. In Skoog, F., ed. *Plant growth substances*, p.93-95. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42575 CAMERON, J. W., NEWTON, A., and TEAS, H. J. Carbohydrate, auxin, niacin, and tryptophane in developing kernels of sugary and starchy maize. (Abs.) *Genet. Soc. Amer. Rec.* 19:93-94. 1950. 442.9 G28
- 42576 CHOUARD, P., and POIGNANT, P. Recherches préliminaires sur la vernalisation en présence d'inhibiteurs de germination et de respiration. *Phytoma* 4(22): 11-13. Jan.1951. 464.8 P563
- 42577 COLEMAN, R. E. Studies on the keeping quality of sugarcane following injury by freezing temperatures during 1950-51. *Sugar B.* 29:198-203. Apr.1, 1951. 65.9 Am32
- 42578 COOK, R. L. Nutrient levels for flowering crops. *Amer. Soc. Hort. Sci. Proc.* 56:446-456. Dec. 1950. 81 So12
- 42579 CORNS, W. G. Factors affecting plant response to 2,4-D. *West. Canad. Weed Control Conf. Proc.* 3:8-12. Nov.30, 1949. 79.9 W522
- 42580 COSTE, A. Observations sur la culture de la tomate San Marzano en Algérie; un écueil redoutable: le dessèchement apical. *Fruits et Primeurs de l'Afrique du Nord* 21:48-51. Feb.1951. 80 F9482
- 42581 COTTAM, G., and CURTIS, J. T. Antibiotics and plant competition. *Gard. Club Amer. B.* 39(2):8-11. Mar.1951. 90.32 G16
- 42582 COTTENIE, A. H. Investigations about the P2O5-contents of clover and grass as influenced by different soil treatments. *Internatl. Cong. Soil Sci. Trans.* 4(2):144-148. 1950. 56.09 In844
- 42583 CRANE, J. C., and BASKAYA, M. Differential ovary wall development in fruitlets of hormone-induced parthenocarpic *Callimyrna* fig *Syconia*. *Amer. Soc. Hort. Sci. Proc.* 56:83-85. Dec.1950. 81 So12
- 42584 CRANE, J. C., and BROWN, J. G. Growth of the fig fruit, *Ficus carica* var. *Mission*. *Amer. Soc. Hort. Sci. Proc.* 56:93-97. Dec.1950. 81 So12
- 42585 CRIVELLARI, D. Results of some changes in incision for resin extraction from the Aleppo pine. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.):56:713-716. 1949. 450 N92
- 42586 CURRIER, H. B., DAY, B. E., and CRAFTS, A. S. Some effects of maleic hydrazide on plants. *Bot. Gaz.* 112:272-280. Ref. Mar.1951. 450 B652
- 42587 DANGEARD, P. Observations sur la résistance les radicules de diverses plantes à des températures entre 40 et 60°. *Acad. des Sci. Compt. Rend.* 232:913-915. Mar.5, 1951. 505 P21
- 42588 DEARBORN, C. H. Effects of weed control sprays of sodium chloride and sodium chloride plus sodium nitrate on the stand and yield of canning beets. *Amer. Soc. Hort. Sci. Proc.* 56:275-278. Dec.1950. 81 So12
- 42589 DE ROPP, R. S. Experimental induction and inhibition of overgrowths in plants. In Skoog, F., ed. *Plant growth substances*, p.381-390. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42590 DRELL, W. Effect of 2,6-diaminopurine on purine metabolism in *Neurospora*. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):177-178. Mar.1951. 442.9 F31P
- 42591 DUNHAM, R. S. Differential responses in crop plants. In Skoog, F., ed. *Plant growth substances*, p.195-206. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- Selective action of 2,4-D.
- 42592 DYVERDON, C. Utilité du zinc pour nos arbres fruitiers. *Cour. Hort.* 13:35. Jan.1951. 80 C834
- 42593 EAMES, A. J. Destruction of phloem in young bean plants after treatment with 2,4-D. *Amer. J. Bot.* 37: 840-847. Ref. Dec.1950. 450 Am36
- 42594 EATON, S. V. Effects of sulfur deficiency on growth and metabolism of tomato. *Bot. Gaz.* 112:300-307. Mar.1951. 450 B652
- 42595 EIGSTI, O. J. Colchicine and related compounds compared for C-mitotic activity. (Abs.) *Genet. Soc. Amer. Rec.* 19:96. 1950. 442.9 G28
- 42596 ENGLE, R. H. The wonder of plant roots. *Horticulture* 29:84,119. Mar.1951. 80 H787
- 42597 ERICKSON, L. C., and BRANNAMAN, B. L. Some effects on fruit growth and quality of a 2,4-D spray applied to Bearss lime trees. *Amer. Soc. Hort. Sci. Proc.* 56:79-82. Dec.1950. 81 So12
- 42598 ESBO, H. Investigate viability of seeds. (In Swedish.) *Lantmannen* 35:215-216. Mar.10, 1951. 11 L234
- 42599 FABERGÉ, A. C. Relation between the action of cold and of nitrogen in decreasing the frequency of chromosome aberrations. (Abs.) *Genet. Soc. Amer. Rec.* 19:97. 1950. 442.9 G28
- Tradescantia.
- 42600 FOSTER, A. C. Some plant responses to certain insecticides in the soil. *U. S. D. A. C.* 862,41 p. Ref. Mar.1951. 1 Ag84C
- 42601 FRANK, F. A. Do soybeans cause clover failures? *Soybean Digest* 11(5):17-19. Mar.1951. 60.38 So9
- 42602 FRIESEN, H. A. Effect of 2,4-D on cereals. *West. Canad. Weed Control Conf. Proc.* 3:40-44. Nov.30, 1949. 79.9 W522
- 42603 GABELMAN, W. H. Characteristics of the cytoplasmic factor for male sterility in maize. (Abs.) *Genet. Soc. Amer. Rec.* 19:99. 1950. 442.9 G28
- 42604 GARDNER, F. E. Growth substances in relation to the production of tree fruits. In Skoog, F., ed. *Plant growth substances*, p.207-223. Madison, U. Wis. Press, 1951. 90.11 Sk5



- 42605 GAUCH, H. G., and WADLEIGH, C. H. Salt tolerance and chemical composition of Rhodes and Dallis grasses grown in sand culture. *Bot. Gaz.* 112:259-271. Ref. Mar.1951. 450 B652
- 42606 GENEVESE, L. Altérations réversibles des cellules du tubercule de *Cichorium intybus* L. (variété endive) sous l'effet du froid et du réchauffement. *Acad. des Sci. Compt. Rend.* 232:1132-1134. Mar.12,1951. 505 P21
- 42607 GERLOFF, G. C., FITZGERALD, G. P., and SKOOG, F. The mineral nutrition of *Coccochloris penicystis*. *Amer. J. Bot.* 37:835-840. Dec.1950. 450 Am36
- 42608 GERRETSEN, F. C. Studies in photosynthesis. IV. Redoxpotentials and corresponding pH changes in illuminated crude chloroplast suspensions. *Plant & Soil* 3:1-31. Ref. Jan.1951. 450 P696
- 42609 GERSTEL, D. U. On the effect of species-foreign pollen on self-incompatible guayule. (Abs.) *Genet. Soc. Amer. Rec.* 19:100. 1950. 442.9 G28
- 42610 GIANNUOLI, S. Later observations on the cambial activity of the fig during 1949. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:707-709. 1949. 450 N92
- 42611 GILES, N. H., and BEATTY, A. V. The effect of X-irradiation in oxygen under pressure on chromosome aberration frequency in *Tradescantia microspores*. (Abs.) *Genet. Soc. Amer. Rec.* 19:100-101. 1950. 442.9 G28
- 42612 GLOVER, P. E. The root systems of some British Somaliland plants. I. East African Agr. J. 16:98-113. Ref. Oct.1950. 24 Ea74
- 42613 GOODGAL, S. H. The effect of photoreactivation on the frequency of ultraviolet induced morphological mutations in the microconidial strain of *Neurospora crassa*. (Abs.) *Genet. Soc. Amer. Rec.* 19:101. 1950. 442.9 G28
- 42614 GRANHALL, I. The physiological basis of winter hardiness in fruit trees. (In Swedish.) *Sveriges Pomol. För. Årsskr.* 1950:281-291. Ref. 86 Sv2 English summary.
- 42615 GRANITOV, A. I. Effect of grazing on feed productivity of *Artemisia*. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(5):32-34. Sept./Oct.1950. 49 K14
- 42616 GRANT, B. M., and SHERMAN, F. G. Effect of X-radiation on the growth of *Torulopsis utilis*. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):54. Mar.1951. 442.9 F31P
- 42617 GUSTAFSON, F. G. Fruit development as influenced by growth hormones. In Skoog, F., ed. *Plant growth substances*, p.351-356. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42618 HAAGEN-SMIT, A. J. The history and nature of plant growth hormones. In Skoog, F., ed. *Plant growth substances*, p.3-19. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42619 HAGEMAN, R. H., and PAGAN, C. The effect of season on the propagation of *Derris* and *Lonchocarpus*. (Abs.) *Amer. Soc. Hort. Sci. Proc.* 56:234. Dec.1950. 81 So12
- 42620 HARTMAN, R. T., and PRICE, W. C. Synergistic effect of plant growth substances and southern bean mosaic virus. *Amer. J. Bot.* 37:820-828. Ref. Dec. 1950. 450 Am36
- 42621 HASKINS, R. H., and WESTON, W. H., JR. Studies in the lower Chytridiales. I. Factors affecting pigmentation, growth, and metabolism of a strain of *Karlingia* (*Rhizophlyctis*) *rosea*. *Amer. J. Bot.* 37:739-750. Ref. Nov.1950. 450 Am36
- 42622 HAWKER, L. E. Physiology of fungi. London, U. London Press, 1950. 360 p. Ref. 462.8 H31
- 42623 HENRICI, M. The seasonal changes of soluble nitrogen, particularly nitrate, in *Tribulus terrestris* on limestone formation. (Sum.) *So. African J. Sci.* 47:212. Feb.1951. 515 So84
- 42624 HESSE, C. O., and GRIGGS, W. H. The effect of gland type on the wettability and water retention of peach leaves. *Amer. Soc. Hort. Sci. Proc.* 56:173-180. Dec.1950. 81 So12
- 42625 HICKS, S. S., DOTY, D. M., and QUACKENBUSH, F. W. A germination inhibitor from apple and celery seeds. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):196-197. Mar.1951. 442.9 F31P
- 42626 HILDEBRANDT, A. C. In vitro experiments on tissues of pathological origin. In Skoog, F., ed. *Plant growth substances*, p.391-404. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42627 HOAGLAND, M. B. Effect of beryllium on plant phosphatase. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):198. Mar.1951. 442.9 F31P
- 42628 HODGSON, R. W., SCHROEDER, C. A., and WRIGHT, A. H. Comparative resistance to low winter temperatures of subtropical and tropical fruit plants. *Amer. Soc. Hort. Sci. Proc.* 56:49-64. Dec.1950. 81 So12
- 42629 HOSHAW, R. W. Effects of various concentrations of 2,4-D on corn seedlings. (Abs.) *Ind. Acad. Sci. Proc.* (1949)59:44. 1950. 500 In2
- 42630 ILJIN, W. S. Influencia de los abonos sobre la composición química de las plantas. I. Influencia del nitrógeno, fósforo, potasio y calcio sobre el pasto capim melao (*Melinis minutiflora*). *Rev. Gracolomb. de Zootec. Hig. y Med. Vet.* 4:36-155. Jan./Mar.1950. 41.8 R3253
- 42631 JOLEY, L. E., and HESSE, C. O. Effect of methyl bromide fumigation on flower opening and pollen viability of nectarine. *Amer. Soc. Hort. Sci. Proc.* 56:231-233. Dec.1950. 81 So12
- 42632 KAMP, J. R., and BLUHM, C. R. Effect of nutrients on the rooting responses of softwood cuttings. *Amer. Soc. Hort. Sci. Proc.* 56:482-484. Dec.1950. 81 So12
- 42633 KENT, M., and GORTNER, W. A. Effect of pre-illumination on the response of split pea stems to growth substances. *Bot. Gaz.* 112:307-311. Ref. Mar. 1951. 450 B652
- 42634 KIROV, K. Contribution à l'étude du régime des températures annuelles en Bulgarie et leur influence sur la végétation. (In Bulgarian.) *Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis.* 18(1):1-30. Ref. 1950. 106.3 R32 French summary.
- 42635 KOHLERMANN, L. Versuchsweise erprobung des pflanzenwuchsstoffes ertragin in bayerischen forstämtern in der vegetationszeit 1950. *Allg. Forstz.* 6:93-95. Feb.28,1951. 99.8 AL52
- 42636 KUPERMAN, F. M. Development of multiflorous spikes in barleys. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(10):13-15. 1950. 20 Ak1
- 42637 KUZMIN, M. K. Effect of smoke upon vegetation. n.d. 2 p. Translation 6453
- Translated from *Lesnoye Khozlistvo* 6:87. 1950.
- 42638 LA CROIX, J. D. Effects of butyl ester of 2,4-D on some algae. (Abs.) *Ind. Acad. Sci. Proc.* (1949) 59:44-45. 1950. 500 In2
- 42639 LANDI, R. Action of short hertzian wave on *Aspergillus niger* in a function of variable time. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:339-344. 1949. 450 N92
- English summary.
- 42640 LARSEN, N. A. One more contribution to the elucidation of the theory on suppressed branches. (In Danish.) *Dansk Skovfor. Tidsskr.* 36:61-70. Ref. Feb. 1951. 99.8 D23
- 42641 LEAPER, J. M. F., and BISHOP, J. R. Relation of halogen position to physiological properties in the mono-, di-, and trichlorophenoxyacetic acids. *Bot. Gaz.* 112:250-258. Ref. Mar.1951. 450 B652
- 42642 LEBEDEV, D. V. Qualitative changes in proteins during grafting. (In Russian.) *Priroda* 39(10):66-67. Oct.1950. 410 P33
- Experiments with potatoes and tomatoes.
- 42643 LEFFORGE, J. H. An analysis of floret fertility in *Agropyron repens*. *Ind. Acad. Sci. Proc.* (1949)59:75-79. 1950. 500 In2
- 42644 LEIN, J., APPLEBY, D. C., and LEIN, P. S. *Neurospora* mutants requiring acetate for growth. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):81. Mar.1951. 442.9 F31P
- 42645 LEVINE, M. Response of fibrous roots of sunflower and tobacco tissue cultures to plant growth substances. *Bot. Gaz.* 112:281-289. Ref. Mar.1951. 450 B652
- 42646 LINDEGREN, C. C., and LINDEGREN, G. Chromosome maps in *Saccharomyces* of genes controlling the fermentation of carbohydrates and the synthesis of vitamins, amino acids and nucleic acid components. (Abs.) *Genet. Soc. Amer. Rec.* 19:109-110. 1950. 442.9 G28
- 42647 LOH, C. S., and TSENG, P. M. A progressive report on the stalk growth of sugarcane in relation to its leaf blade area. B. (In Japanese.) *J. Sugarcane Res.* 4:289-306. Nov.1950. 65.8 J822
- English summary.
- 42648 LONA, R. Photoperiodic behavior of flowering. (In Italian.) *Nuovo Gior. Bot. Ital.* (n.s.)56:479-515. Ref. 1949. 450 N92
- English summary.
- Chenopodium amaranticolor* and *Perilla ocymoides*.



- 42649 LONGSTAFF, W. H., and GRAHAM, E. R. Release of mineral magnesium and its effect on growth and composition of soybeans. *Soil Sci.* 71:167-174. Ref. Mar.1951. 56.8 So3
- 42650 MCEVOY, E. T. The physiological aspect of major element nutrition on the maturity of flue-cured tobacco. *Sci. Agr.* 31:85-92. Mar.1951. 7 Sci2
- 42651 MACFARLANE, E. W. E. Bioassay of growth-arresting substances penetrating Allium roots. (Abs.) *Genet. Soc. Amer. Rec.* 19:112. 1950. 442.9 G28
- 42652 MCILRATH, W. J. Response of the cotton plant to maleic hydrazide. *Amer. J. Bot.* 37:816-819. Dec.1950. 450 Am36
- 42653 MCKEE, H. S. Studies on the nitrogen metabolism of the barley plant (*Hordeum sativum*). *Austral. J. Sci. Res. Ser. B, Biol. Sci.* 3:474-486. Ref. Nov.1950. 442.8 Au72
- 42654 MACKAY, E. M. The effect of 2,4-D on weeds and flax. *West. Canad. Weed Control Conf. Proc.* 3:44-47. Nov.30.1949. 79.9 W522
- 42655 MCVEIGH, I., and BELL, E. The amino acid and vitamin requirements of *Candida albicans* Y-475 and *Mycoderma vini* Y-939. *Torrey Bot. Club. B.* 78:134-144. Ref. Mar./Apr.1951. 451 T63B
- 42656 MAGINI, E. Note on the effect of bark removal on adult plants of *Robinia pseudo-acacia* L., *Cedrus libanotica* L., *Populus nigra* L., and *Sophora japonica* L. (In Italian.) *Nuovo Gior. Bot. Ital. (n.s.)* 56:678-679. 1949. 450 N92
- Bark was removed for fuel.
- 42657 MAMONTOVA, A. N. Qualitative changes in the protein complex of fungi in relation to culture media. (In Russian.) *Zhur. Obshch. Biol.* 11:462-464. Nov./Dec. 1950. 442.8 Z6
- Experiments with *Ascochyta pisi* and *Colletotrichum linicolum*.
- 42658 MANN, L. K., and ROBINSON, J. Fertilization, seed development, and fruit growth as related to fruit set in the cantaloupe (*Cucumis melo* L.). *Amer. J. Bot.* 37: 685-697. Ref. Nov.1950. 450 Am36
- 42659 MANOLOV, I. Causes for falling off of the buds, flowers and young fruit of cotton. (In Bulgarian.) *Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis.* 18(3):3-15. Ref. 1950. 106.3 R32
- English summary.
- 42660 MARSHALL, E. R., and SMITH, O. Maleic hydrazide as a sprout inhibitor for potatoes. *Bot. Gaz.* 112:329-330. Mar.1951. 450 B652
- 42661 MASON, A. C. Mineral nutrition in horticulture. (Sum.) *Roy. Inst. Chem. J.* 74:132-133. Apr.1950. 382 In7
- 42662 MATTSON, S., and others. Phosphate relationships of soil and plant. II-VII. Sweden. *Lantbrhögsk. Ann.* 17:64-91,107-160,222-246. Ref. 1950. 104 Up6
- E. G. Williams, E. Eriksson, K. Vahtras, E. Barkoff, E. Koutler-Anderson, E. Alvsaker, and S. Stahlberg, joint authors.
- 42663 MESSERI, A., and SARFATTI, G. Index of potential evapotranspiration (Thornthwaite) and its application in Bari. (In Italian.) *Nuovo Gior. Bot. Ital. (n.s.)* 56:702-705. 1949. 450 N92
- 42664 MESSERI, A. Results of resin extraction with inverted incisions on the Aleppo pine in the Patemisco-Gallio forest May-October 1949. (In Italian.) *Nuovo Gior. Bot. Ital. (n.s.)* 56:709-713. 1949. 450 N92
- 42665 MILLER, C. W. The effect of precipitation on the annual ring growth in three species of trees from Brown County, Indiana. (Abs.) *Ind. Acad. Sci. Proc.* (1949)59:46. 1950. 500 In2
- 42666 MILLER, C. W. The effect of sap-removal for syrup-making upon radial growth in sugar maple. (Abs.) *Ind. Acad. Sci. Proc.* (1949)59:46-47. 1950. 500 In2
- 42667 MILLIKAN, C. R. Relation between nitrogen source and the effects on flax of an excess of manganese or molybdenum in the nutrient solution. *Austral. J. Sci. Res. Ser. B; Biol. Sci.* 3:450-473. Ref. Nov.1950. 442.8 Au72
- 42668 MINERVINI, I. Autumn growth in 1949 of *Viburnum tinus* L. (In Italian.) *Nuovo Gior. Bot. Ital. (n.s.)* 56:706-707. 1949. 450 N92
- 42669 MITCHELL, J. W. Translocation of growth-regulating substances and their effect on tissue composition. In Skoog, F., ed. *Plant growth substances*, p.141-153. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42670 MITTWOCH, U. Studies in the genetics of some X-ray-induced morphological mutants in *Coprinus lagopus*. *J. Genet.* 50:202-205. Jan.1951. 442.8 J823
- 42671 MOLITOR, C. S. Magic gardening for you; how to grow food and flowers in any home. Drawings by Ruth Worsham. Ed. 3. Coral Gables, Fla., Glade House, 1951. 57 p. 90.15 M73
- Soilless culture.
- 42672 MORETTI, A. Contribution to a knowledge of the metabolism of nitrogen and carbohydrates in plums. (In Italian.) *Riv. di Frutticoltura.* 13:1-26. Ref. Jan.1951. 80 R52
- 42673 MUIR, R. M. The growth hormone mechanism in fruit development. In Skoog, F., ed. *Plant growth substances*, p.357-364. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42674 MULDER, D. Survey of nutritional diseases in fruit trees in relation to soil conditions in the Netherlands. *Internat. Cong. Soil Sci. Trans.* 4(2):141-144. 1950. 56.09 In844
- 42675 MULLER, D. Apples and leaves. (In Danish.) *Gart.-Tid.* 67:13. Jan.10,1951. 80 G192
- 42676 MURAKISHI, H., and HENDRIX, J. W. The effect of growth substances and fungicides on the rooting and survival of carnation cuttings grown in naturally infested soil. *Amer. Soc. Hort. Sci. Proc.* 56:485-490. Ref. Dec.1950. 81 So12
- 42677 MURNEEK, A. E. Growth-regulating substances in relation to reproduction of some horticultural plants. In Skoog, F., ed. *Plant growth substances*, p.329-345. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42678 MURTHY, S. N. K., and SUBRAMANIAM, M. K. Temperature as a selective factor for yeast mutants. *Curr. Sci.* 20:17-18. Ref. Jan.1951. 475 Sci23
- 42679 NASSO, A. DI. Autosterility of the Hale peach. (In Italian.) *Glor. di Agr.* 61:83. Mar.18.1951. 16 It1G
- 42680 NEWCOMB, E. H. Comparative studies of metabolism in insect galls and normal tissues. In Skoog, F., ed. *Plant growth substances*, p.417-427. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42681 NORTHGRAFT, R. D. The use of oxalate to produce free-living cells from carrot tissue cultures. *Science* 113:407-408. Ref. Apr.13,1951. 470 Sci2
- 42682 NORTHERN, H. T. Alterations in the structural viscosity of protoplasm by colchicine and their relationship to c-mitosis and c-tumor formation. *Amer. J. Bot.* 37:705-711. Ref. Nov.1950. 450 Am36
- 42683 OLSON, P. J. At what stage of growth does 2,4-D damage wheat, barley and flax? *West. Canad. Weed Control Conf. Proc.* 3:48-51. Nov.30,1949. 79.9 W522
- 42684 PACLT, J. Synopsis of the genus *Catalpa* (Bignoniaceae). II. Schweiz. Bot. Gesell. Ber. 60:591-595. Ref. 1950. 451 Sch9
- Physiology and biochemistry.
- 42685 PANIGRAHI, G. Photoperiodic studies in Indian vegetables. II. *Amaranthus gangeticus* var. *oleraceus* Roxb. *Curr. Sci.* 20:19. Jan.1951. 475 Sci23
- 42686 PAOLIS, D. DE. Further information on the rhythm of growth of *Rhamnus alaternus* L. in 1949. (In Italian.) *Nuovo Gior. Bot. Ital. (n.s.)* 56:705-706. 1949. 450 N92
- 42687 PAOLIS, D. DE. Growth cycle and buds differentiation in perennial plants growing in Bari's area. V. The evolution of the wood ring in *Rhamnus alaternus* L. from December 1946 to March 1949. (In Italian.) *Nuovo Gior. Bot. Ital. (n.s.)* 56:328-338. 1949. 450 N92
- English summary.
- 42688 PAULEY, S. S. Flowering habits in *Populus*. (Abs.) *Genet. Soc. Amer. Rec.* 19:118. 1950. 442.9 G28
- 42689 PETRUCCI, V. E., and CRANE, J. C. Fruit bud initiation and differentiation in the fig. *Amer. Soc. Hort. Sci. Proc.* 56:86-92. Dec.1950. 81 So12
- 42690 PICKETT, W. F. Stionic effects on the internal structure of apple leaves. *Amer. Soc. Hort. Sci. Proc.* 56:164-165. Dec.1950. 81 So12
- 42691 PILET, P. E. Nouvelle contribution à l'étude du géotropisme des étamines d'*Hosta caerulea* Tratt. Schweiz. Bot. Gesell. Ber. 60:5-14. Ref. 1950. 451 Sch9
- 42692 PLASSE, J. B. V. D. Brown spots on apple peel. II. (In Dutch.) *Fructiteelt* 41:114. Feb.15,1951. 86 N28
- 42693 RAPER, J. R. Chemical regulation of sexual processes in fungi. In Skoog, F., ed. *Plant growth substances*, p.301-313. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42694 REBIFFE, J. Nouvelles perspectives sur l'étude de l'absorption des éléments nutritifs par les plantes. *Défense Agr. de la Beauce et du Perche* 48:121-122. Mar.17,1951. 14 D36



- 42695 REUTHER, W., and SMITH, P. F. A preliminary report on the relation of nitrogen, potassium, and magnesium fertilization to yield, leaf composition, and the incidence of zinc deficiency in oranges. *Amer. Soc. Hort. Sci. Proc.* 56:27-33. Ref. Dec.1950. 81 Sol2
- 42696 RIERA, F. J. La caída prematura de manzanas y peras; aplicación de sustancias reguladoras de carácter fitohormonal. *Esc. de Peritos Agr. y de Especialidades Agropecuarias y Serv. Téc. de Agr. An.* 8:149-166. Ref. 1949. 105.6 B233
- 42697 RITCHIE, D. Late flowering dates of some common plants of Rockland County, New York. *Castanea* 16:16-17. Mar.1951. 450 So82
- 42698 ROBBINS, W. J. Vitamin and amino acid requirements for the growth of higher plants. In Skoog, F., ed. *Plant growth substances*, p.463-476. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42699 ROBERTS, R. H. The induction of flowering with a plant extract. In Skoog, F., ed. *Plant growth substances*, p.347-350. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42700 ROBERTS, R. H. Onion size and flowering. *Veg. Growers Assoc. Amer. Annu. Rpt.* 1950:250-253. 81 V52
- 42701 ROSSITER, R. C. Studies on the nutrition of pasture plants in the south-west of Western Australia. I-II. *Austral. J. Agr. Res.* 2:1-24. Ref. Jan.1951. 23 Au783
- I, The effect of copper, zinc, and potassium on the growth of the Dwalganup strain of *Trifolium subterraneum* L. on sandy soils; II, Visual symptoms of mineral deficiencies on the Dwalganup strain of *Trifolium subterraneum* L.
- 42702 RUSTIA, A. Effects of micronutrient elements on the Kentucky tobacco plant. (In Italian.) *Agr. Tosc.* 6:46-48. Feb.1951. 16 Ag827
- 42703 SAAKOV, S. G. Cultivation of some ornamental plants with supplementary electric lighting. (In Russian.) *Akad. Nauk SSSR. Bot. Inst. Trudy. Ser. 6. Introd. Rast. i Zelenoe Stroitel'stvo* 1950:295-303. 451 Ak15
- 42704 SAUBERLICH, H. E., CHANG, W. Y., and SALMON, W. D. Effect of nitrogen fertilization upon the biological value and amino acid content of corn. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):243. Mar.1951. 442.9 F31P
- 42705 SAX, K. The effect of the rootstock on the growth of seedling trees and shrubs. *Amer. Soc. Hort. Sci. Proc.* 56:166-168. Dec.1950. 81 Sol2
- 42706 SCHERR, G. H. The effect of 9:10-bishydroxy-methyl-1:2-benzanthracene and alpha-naphthalene acetic acid on the cell division mechanism in *Saccharomyces cerevisiae*. (Abs.) *Genet. Soc. Amer. Rec.* 19:124. 1950. 442.9 G28
- 42707 SCHMID, K. Ueber die wirkung des spurenelementes bor auf ertrag und qualität des tabaks. *Tabak-Forschung* 1951(5):1-4. Ref. In *Süddeut. Tabakztg.* 61(8). Feb.23,1951. 286.89 Su2
- 42708 SCHNEIDER, H., FOOTE, F., and MASTERS, L. C. Avoid sieve tube necrosis when selecting lemon budwood. *Calif. Citrog.* 36:224,261. Apr.1951. 80 C125
- 42709 SCHNEIDER, R. Untersuchungen über die jahreszeitlichen schwankungen des rohfasers- und ligningehaltes einiger blatt- und krautdrogen. *Schweiz. Bot. Gesell. Ber.* 60:244-328. Ref. 1950. 451 Sch9
- 42710 SCHRANK, A. R. Electrical polarity and auxins. In Skoog, F., ed. *Plant growth substances*, p.123-140. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42711 SCUDDER, W. T., JACOB, W. C., and THOMPSON, H. C. Varietal susceptibility and the effect of potash on the incidence of black spot in potatoes. *Amer. Soc. Hort. Sci. Proc.* 56:343-348. Ref. Dec.1950. 81 Sol2
- 42712 SEELEY, J. G. Mineral nutrient deficiencies and leaf burn of Croft Easter lilies. *Amer. Soc. Hort. Sci. Proc.* 56:439-445. Dec.1950. 81 Sol2
- 42713 SEELEY, J. G. Potassium deficiency of greenhouse roses. *Amer. Soc. Hort. Sci. Proc.* 56:466-470. Dec.1950. 81 Sol2
- 42714 SHANKS, J. B., HAUN, J. R., and LINK, C. B. A preliminary study on the mineral nutrition of Hydrangeas. *Amer. Soc. Hort. Sci. Proc.* 56:457-465. Dec. 1950. 81 Sol2
- 42715 SHERMAN, F. G. Effect of X-radiation on fermentation of glucose by low and high nitrogen yeast. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):125. Mar.1951. 442.9 F31P
- 42716 SIMLOTE, K. M. Effect of rainfall on the staple-length of Malvi 9. *Indian Cotton Growing Rev.* 4:143-148. July 1950. 72.8 In23
- 42717 SKOOG, F. Chemical control of growth and organ formation in plant tissues. *Ann. Biol.* 54:545-562. Ref. Oct.1950. 442.8 An7
- Includes discussion.
- 42718 SKOOG, F., and TSUI, C. Growth substances and the formation of buds in plant tissues. In Skoog, F., ed. *Plant growth substances*, p.263-285. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42719 SKOOG, F., ed. *Plant growth substances*. Madison, U. Wis. Press, 1951. 476 p. 90.11 Sk5
- 42720 SMITH, B. W. *Arachis hypogaea*, aerial flower and subterranean fruit. *Amer. J. Bot.* 37:802-815. Ref. Dec.1950. 450 Am36
- 42721 SMITH, F. G. Respiratory changes in relation to toxicity. In Skoog, F., ed. *Plant growth substances*, p.111-120. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42722 SMITH, G. M. The sexual substances of algae. In Skoog, F., ed. *Plant growth substances*, p.315-328. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42723 SMITH, L., SIEBURTH, L. R., and NORBY, B. The relation of oxygen concentration in barley seeds to the biological effects of X-ray. (Abs.) *Genet. Soc. Amer. Rec.* 19:126. 1950. 442.9 G28
- 42724 SNELL, E. E. Growth factors in bacterial nutrition. In Skoog, F., ed. *Plant growth substances*, p.431-446. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42725 SPURLING, M. B. Water requirements of citrus. III. Citrus leaf drop. *So. Austral. Dept. Agr. J.* 54:190-194. Nov.1950. 23 So84
- 42726 STANBERRY, C. O., and CLORE, W. J. The effect of nitrogen and phosphorus fertilizers on the composition and keeping qualities of Bing cherries. *Amer. Soc. Hort. Sci. Proc.* 56:40-45. Ref. Dec.1950. 81 Sol2
- 42727 STEBBINS, G. L., JR. Cataclysmic evolution. *Sci. Amer.* 184(4):54-59. Apr.1951. 470 Sci25
- Doubling of chromosomes in plants by artificial means.
- 42728 STEINMANN, E. Über die oxydationsvorgänge im lebenden und getrockneten kleeblatt. *Schweiz. Bot. Gesell. Ber.* 60:433-466. Ref. 1950. 451 Sch9
- 42729 STOUT, P. R., and others. Molybdenum nutrition of crop plants. I. The influence of phosphate and sulfate on the absorption of molybdenum from soils and solution cultures. *Plant & Soil* 3:51-87. Ref. Jan.1951. 450 P696
- W. R. Meagher, G. A. Pearson, C. M. Johnson, joint authors.
- 42730 STREHLER, B., and ARNOLD, W. Light production by green plants. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):255. Mar.1951. 442.9 F31P
- 42731 STRUCKMEYER, B. E. Comparative effects of growth substances on stem anatomy. In Skoog, F., ed. *Plant growth substances*, p.167-174. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42732 STRUCKMEYER, B. E., ROBERTS, R. H., and COMBS, O. B. Hormone sprays in setting tomatoes in the greenhouse and out of doors. *Veg. Growers Assoc. Amer. Annu. Rpt.* 1950:18-24. 81 V52
- 42733 STRUCKMEYER, B. E., and ROBERTS, R. H. A possible explanation of how naphthalene acetic acid thins apples. *Amer. Soc. Hort. Sci. Proc.* 56:76-78. Ref. Dec.1950. 81 Sol2
- 42734 SWANSON, C. P., and GOODGAL, S. H. The effect of metabolic inhibitors on the ultraviolet-induced mutation rate in *Aspergillus terreus*. (Abs.) *Genet. Soc. Amer. Rec.* 19:129-130. 1950. 442.9 G28
- 42735 TATUM, E. L. Genetic aspects of growth responses in fungi. In Skoog, F., ed. *Plant growth substances*, p.447-461. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42736 THIMANN, K. V., BONNER, W. D., JR., and CHRISTIANSEN, G. S. Changes in metabolism during growth and its inhibition. In Skoog, F., ed. *Plant growth substances*, p.97-104. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42737 THIMANN, K. V. The synthetic auxins: relation between structure and activity. In Skoog, F., ed. *Plant growth substances*, p.21-36. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42738 THIMANN, K. V. The use of auxins in the rooting of woody cuttings. *Petersham, Mass., Harvard Forest*, 1950. 344 p. (Maria Moors Cabot Foundation. Publication No. 1) 90.11 T34
- 42739 THOMPSON, A. H., and BATJER, L. P. The effect of boron in the germinating medium on pollen germination and pollen tube growth for several deciduous tree fruits. *Amer. Soc. Hort. Sci. Proc.* 56:227-230. Dec.1950. 81 Sol2
- 42740 THOMPSON, A. H. A new hormone for the control of preharvest drop of apples. *Mountaineer Grower* 21(185):7-12. Feb.1951. 80 M86



- 42741 TOMBESI, L. Glutathione and ascorbic acid content and oxidase and catalase activity as an effect of the available moisture in the soil on leaves of *Nicotiana tabacum* var. Virginia Bright during its vegetative cycle and curing. (In Italian.) *Tabacco* 55(618):15-25. (To be cont.) Jan. 1951. 69.8 T115
- 42742 USTINOVA, E. I. In regard to the biology of blossoming and pollination of various *Allium* species. (In Russian.) *Vsesoyuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 15(10):16-24. Ref. 1950. 20 Ak1
- 42743 VAN OVERBEEK, J. Use of growth substances in tropical agriculture. In Skoog, F., ed. *Plant growth substances*, p.225-244. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42744 VIETS, F. G., JR., and CRAWFORD, C. L. Field studies on zinc deficiency in beans in central Washington. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Div. *Soil Mangt. & Irrig. Res. Rpt.* 208, 4 p. Mar. 30, 1951. 1.965 S4R312
- 42745 VIETS, F. G., JR., CRAWFORD, C. L., and NELSON, C. E. Field studies on zinc deficiency in corn in the Columbia Basin area. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Div. *Soil Mangt. & Irrig. Res. Rpt.* 207, 10 p. Mar. 30, 1951. 1.965 S4R312
- 42746 WADE, G. C. Manganese deficiency of apples. *Fruit World & Mkt. Grower* 52:30. Jan. 10, 1951. 80 F948 Tasmania.
- 42747 WALLACE, R. H., and LOCHHEAD, A. G. Bacteria associated with seeds of various crop plants. *Soil Sci.* 71:159-166. Ref. Mar. 1951. 56.8 So3
- 42748 WALSH, M. P. The effect of aminopterin on mitosis in *Allium cepa*. (Abs.) *Genet. Soc. Amer. Rec.* 19:132-133. 1950. 442.9 G28
- 42749 WANNER, H., and SCHMUCKI, S. Hemmung der wurzelatmung durch ausscheidungen des wurzel-systems. *Schweiz. Bot. Gesell. Ber.* 60:413-425. Ref. 1950. 451 Sch9
- English summary.
- 42750 WANNER, H. Histologische und physiologische gradienten in der wurzelspitze. *Schweiz. Bot. Gesell. Ber.* 60:404-412. Ref. 1950. 451 Sch9
- 42751 WANNER, H., and BRUHIN, A. Über die photoperiodische reaktion von *Crepis*-arten. *Schweiz. Bot. Gesell. Ber.* 60:401-403. 1950. 451 Sch9
- 42752 WANNER, H. Über die zuckerwanderung in erbsenkeimlingen. *Schweiz. Bot. Gesell. Ber.* 60:426-432. Ref. 1950. 451 Sch9
- English summary.
- 42753 WEEKS, D. C., and ROBERTSON, R. N. Studies in the metabolism of plant cells. VIII. Dependence of salt accumulation and salt respiration upon the cytochrome system. *Austral. J. Sci. Res. Ser. B, Biol. Sci.* 3:487-500. Ref. Nov. 1950. 442.8 Au72
- 42754 WEINBERGER, J. H. Prolonged dormancy of peaches. *Amer. Soc. Hort. Sci. Proc.* 56:129-133. Ref. Dec. 1950. 81 So12
- 42755 WEISSMAN, G. S. Growth and nitrogen absorption of wheat seedlings as influenced by the ammonium: nitrate ratio and the hydrogen-ion concentration. *Amer. J. Bot.* 37:725-738. Ref. Nov. 1950. 450 Am36
- 42756 WENT, F. W. The development of stems and leaves. In Skoog, F., ed. *Plant growth substances*, p.287-298. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42757 WENT, F. W. Twenty years of plant hormone research. In Skoog, F., ed. *Plant growth substances*, p.67-79. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42758 WHITE, P. R. The role of growth substances in vegetative development as exemplified in tissue cultures. In Skoog, F., ed. *Plant growth substances*, p.247-252. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42759 WITTWER, S. H. Growth substances in fruit setting. In Skoog, F., ed. *Plant growth substances*, p.365-377. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42760 WORSWICK, G. D. Leaf analysis shows up excesses and deficiencies in fruit trees. *West. Fruit Grower* 4(10):15-17. Oct. 1950. 95.8 G762
- 42761 YARBROUGH, J. A. *Arachis hypogaea*. Seedling growth rate. *Amer. J. Bot.* 37:779-785. Ref. Dec. 1950. 450 Am36
- 42762 YOST, H. T., JR. An analysis of combined infra-red and X-ray effects on *Tradescantia* chromosomes. (Abs.) *Genet. Soc. Amer. Rec.* 19:134. 1950. 442.9 G28
- 42763 ZEHNDER, A. Über den einfluss antibiotischer stoffe auf das wachstum von grünalgen. *Experientia* 7:99-100. Mar. 15, 1951. 475 Ex7
- 42764 ZIEBUR, N. K. Factors influencing the growth of plant embryos. In Skoog, F., ed. *Plant growth substances*, p.253-261. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5

- 42765 ZIMMERMAN, P. W. Formative effects of hormone-like growth regulators. In Skoog, F., ed. *Plant growth substances*, p.175-183. Ref. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42766 ZIMMERMAN, P. W. Plant hormones in practice. In Skoog, F., ed. *Plant growth substances*, p.81-89. Madison, U. Wis. Press, 1951. 90.11 Sk5
- 42767 ZUBRISKI, J. C., and SWINGLE, C. F. Potassium content of Montmorency cherry leaves in relation to curl-leaf and to exchangeable soil potassium. *Amer. Soc. Hort. Sci. Proc.* 56:34-39. Ref. Dec. 1950. 81 So12

## BIOCHEMISTRY

- 42768 ACKERMAN, W., and HOUGH, L. F. Determination and correlation of leaf and fruit pigments of yellow- and white-fleshed peaches. *Amer. Soc. Hort. Sci. Proc.* 56:157-163. Ref. Dec. 1950. 81 So12
- 42769 BOTTOMLEY, W., and WHITE, D. E. The chemistry of Western Australian plants. III. Ursolic acid from *Anthroche* species. *Austral. J. Sci. Res. Ser. A: Phys. Sci.* 3:516-517. Sept. 1950. 475 Au73
- 42770 BROWN, J. G., LILLELAND, O., and JACKSON, R. K. Further notes on the use of flame methods for the analysis of plant material for potassium, calcium, magnesium and sodium. *Amer. Soc. Hort. Sci. Proc.* 56:12-22. Dec. 1950. 81 So12
- 42771 BRUNEL, A., and BRUNEL-CAPELLE, G. Synthèse de l'acide allantique chez les champignons Basidiomycètes. *Acad. des Sci. Compt. Rend.* 232:1130-1132. Mar. 12, 1951. 505 P21
- 42772 DEDONDER, R. Les glucides du topinambour. IV. Isolement, analyse et structure des premiers termes de la série des polyosides. *Acad. des Sci. Compt. Rend.* 232:1134-1136. Mar. 12, 1951. 505 P21
- 42773 DYAR, M. T. Some observations on starch synthesis in pea root tips. *Amer. J. Bot.* 37:786-791. Ref. Dec. 1950. 450 Am36
- 42774 FREY, R. Chitin und zellulose in pilzzellwänden. *Schweiz. Bot. Gesell. Ber.* 60:199-230. Ref. 1950. 451 Sch9
- 42775 HIMES, M. H. Studies on the chemical nature of "sticky chromosomes." (Abs.) *Genet. Soc. Amer. Rec.* 19:104. 1950. 442.9 G28
- Zea mays and *Allium* cepa.
- 42776 LANDMAN, O. E. Formation of lactase in mutants and parental strains of *Neurospora*. (Abs.) *Genet. Soc. Amer. Rec.* 19:107-108. 1950. 442.9 G28
- 42777 NOONAN, J. C., and others. Influence of location on the ascorbic acid content of the Irish potato. *Amer. Potato J.* 28:521-524. Feb. 1951. 75.8 P842
- R. E. Webb, R. B. Attaya, and J. C. Miller, joint authors.
- 42778 PARTRIDGE, C. W. H., and BONNER, D. M. N<sup>15</sup> studies on course of synthesis of niacin in *Neurospora*. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):231. Mar. 1951. 442.9 F31P
- 42779 PLOUVIER, V. Sur l'étude biochimique comparée de quelques Caprifoliacées. *Acad. des Sci. Compt. Rend.* 232:1013-1015. Mar. 5, 1951. 505 P21
- 42780 RETI, L., and CASTRILLON, J. A. Cactus alkaloids. I. *Trichocereus terscheckii* (Parmentier) Britton and Rose. *Amer. Chem. Soc. J.* 73:1767-1769. Apr. 1951. 381 Am33J
- 42781 RITCHIE, M. Photosynthesis. *Pharm. J.* 166:180-182. Mar. 10, 1951. 396.8 P49
- 42782 SCHWANTZ, F. Untersuchungen an polyploiden pflanzen. XI. Zum chlorophyllgehalt diploider und polyploider pflanzen. *Züchter* 21:30-36. Ref. 1951. 442.8 Z8
- 42783 SHELDON, V. L., BLUE, W. G., and ALBRECHT, W. A. Biosynthesis of amino acids according to soil fertility. I. Tryptophane in forage crops. *Plant & Soil* 3:33-40. Ref. Jan. 1951. 450 P696
- 42784 SINGER, S. J., and others. High molecular weight nucleoprotein found in cytoplasm of a variety of healthy plant leaves. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):248. Mar. 1951. 442.9 F31P
- L. Eggman, J. M. Campbell, and S. G. Wildman, joint authors.
- 42785 SMITS, B. L., and MITCHELL, H. L. A rich source of  $\gamma$ -carotene. *Science* 113:296-297. Mar. 16, 1951. 470 Sci2
- Galls of *Gymnosporangium juniperi-virgiana* on crab-apple.
- 42786 STUMPF, P. K. Transaminases in higher plants. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):256. Mar. 1951. 442.9 F31P



- 42787 WAGNER, R. P., and HADDOX, C. H. The *in vivo* synthesis of pantothenic acid by "pantothenicless" *Neurospora*. (Abs.) Genet. Soc. Amer. Rec. 19:131-132. 1950. 442.9 G28
- 42788 WILLIAMS, W. J. Utilization of 4-amino, 5-imidazole carboxamide for purine synthesis by yeast. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1): 270. Mar. 1951. 442.9 F31P
- 42789 YAMAFUJI, K., KONDO, H., and OMURA, H. Distribution of oxime in plant and animal tissues. *Enzymologia* 14:153-156. Ref. Sept. 15, 1950. 390.08 En9
- 42790 ZALOKAR, M. Production of p-amino benzoic acid in *Neurospora* and adaptation to sulfonamides. (Abs.) Genet. Soc. Amer. Rec. 19:134. 1950. 442.9 G28

## FIELD CROPS

Includes articles on general agronomy and on crop varieties, breeding, cultural practices, and yield.

## General

- 42791 BUELENS. Adaptation technique de nos cultures. *Agriculture* 55(9):3-5. Mar. 4, 1951. 13 B63P Belgium.
- 42792 CANADA. CENTRAL EXPERIMENTAL FARM, OTTAWA. DIV. OF FIELD HUSBANDRY, SOILS AND AGRICULTURAL ENGINEERING. Progress report, 1936-1948. Ottawa, 1950. 125 p. 101 Ex6R
- 42793 COOK, E. D., CRANE, L. E., and BATES, R. P. Crop variety tests near Kirbyville, 1949-50. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1346, 4 p. Mar. 29, 1951. 100 T31P
- 42794 DROZDOV, L. N. Osnovy sel'skogo khoz'yaistva [Principles of agriculture]. Moskva, Gos. Uchebno-Pedagog. Izd-vo Ministerstva Prosveshcheniya RSFSR, 1950. 302 p. 30.2 D83
- Includes agronomical studies.
- 42795 FRANCE. INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE. Rapport annuel, 1948. Paris, 1950. 78 p. 105.3 F84
- 42796 FREIBURGHaus, S., and others. Acker- und futterbau. Zollikofen, Oekonomische und Gemeinnützige Gesellschaft des Kantons Bern, 1950. 59 p. 56.8 F88
- F. Zurflüh, G. Lüthi, and H. Arni, joint authors.
- 42797 GRIESBECK. Vertikale gliederung im sortenversuchswesen. *Neue Mitt. f. die Landwirt.* 6:35-36. Jan. 20, 1951. 18 N39
- Germany.
- 42798 HANSEL, H. Saatucht in Holland. *Food & Agr. Organ. United Nations. Austrian Natl. Com. Mitt.* 2:49-51. 1950. 281.9 F732
- 42799 HODGSON, H. J., and others. Recommended varieties of field crops for Alaska, 1951. Alaska. Agr. Expt. Sta. C. 14, 8 p. Feb. 1951. 100 AL122E
- S. C. Litzenger, B. M. Bensin, and J. E. Osguthorpe, joint authors.
- 42800 HOWARD, H. W. Crops and plant breeding. *Roy. Agr. Soc. Eng. J.* 111:129-139. Ref. 1950. 10 R81 Research.
- 42801 INSTITUT BELGE POUR L'AMELIORATION DE LA BETTERAVE. Rapport annuel: exercice 1949. Tirlemont, 1950. 14 p. 66.9 In7N
- 42802 JOGLAR RODRIGUEZ, F. Rotación de cosechas en la finca tabacalera. *Lucha* 2(20):15, 17. Feb. 1951. 280.28 L96
- Puerto Rico.
- 42803 LAVEZZINI, V. What should we cultivate? (In Italian.) *Avvenire Agr.* 59:25-28. Feb. 1951. 16 Av9
- Field crops in Italy.
- 42804 NAUWERCK, W. Saatgut und sortenwahl 1951. *Bauern Ztg.* 4(7):5-6. Feb. 16, 1951. 18 B324
- Field crops.
- 42805 OHIO. STATE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Crop varieties and hybrids for 1951 plantings. Ohio. Agr. Col. Ext. B. 225, rev. 4 p. Jan. 1950. 275.29 Oh32
- 42806 PFRANG. Sortenfrage. *Bad. Landwirt.* *Wchnbl.* 118:121-122. Feb. 24, 1951. 18 B142
- Field crops.
- 42807 PUKHAL'SKIĬ, A., and SKVORTSOV, S. Shatilov State Breeding Station. (In Russian.) *Selekt. i Semen.* 17(11):13-18. Nov. 1950. 61.9 Se5
- Includes field crop research.
- 42808 RASTEN, J. Growing of silage corn. (In Norwegian.) *Norsk Landbr.* 17:102-104. (To be cont.) Mar. 16, 1951. 11 N8122
- 42809 ROBINSON, J. Choose field crops to meet your needs. *Merrimack's Mon. Messenger* 13(4):1-3. Apr. 1951. 6 M55

- 42810 STEWART, J. G. Crops for late sowing. *Farmer & Stock-Breeder* 65(3206):41, 43. Apr. 3/4, 1951. 10 F228
- Field crops.
- 42811 VIRGINIA. POLYTECHNIC INSTITUTE. AGRONOMY DEPT. Official Virginia varietal tests 1950; field crop recommendations for 1951. Va. Agr. Expt. Sta. B. 445, 18 p. Feb. 1951. 100 V81S
- 42812 WOLFE, H. H., and FURRER, J. D. Crop varieties in Nebraska. *Nebr. Agr. Col. Ext. E. C.* 100, rev., 70 p. Feb. 1951. 275.29 N272Ex
- 42813 WRAAE-JENSEN, H. Seed crop experiments 1950. (In Danish.) *Dansk Frøavl* 34:65-71. Mar. 15, 1951. 61.8 D23

## Cereals

- 42814 ÅBERG, E. Barley and wheat from the Saqqara Pyramid in Egypt. Sweden. *Lantbrhögsk. Ann.* 17:59-63. Ref. 1950. 104 Up6
- 42815 ANDERSON, J. C., and others. Corn growing for the potato areas. N. J. Agr. Col. Ext. L. 48, 8 p. Feb. 1951. 275.29 N46L
- J. C. Campbell, J. W. Carncross, and B. B. Pepper, joint authors.
- 42816 ARBUCKLE, J. The growers' problems. *Edinb. & East Scot. Col. Agr. B.* 25:5-13. Aug. 1950. 103 Ed4E
- Includes discussion.
- Grain.
- 42817 AVANZI, E. Contribution of selected varieties to increased production of herbaceous plants with particular reference to cereals. (In Italian.) *Cong. Agr. Naz. Atti* 1948:361-384. 1950. 27 C7625
- 42818 BARNES, B. Corn—the silage crop. *West. Dairy J.* 7(5):9, 57-58. Mar. 1, 1951. 44.8 W524
- 42819 BENOIST, M. Sur les essais culturaux de maïs-grain entrepris sur son exploitation. *Défense Agr. de la Beauce et du Perche* 48:80-81. Feb. 17, 1951. 14 D36
- 42820 BERGAL, M. Amélioration de la culture des orges. *Agriculture [Paris]* 15(121):31-33, 35. Feb. 1951. 14 Ag823
- 42821 BRIDIER, M. Le maïs hybride. *Cerca* 24(212):5-8. Mar. 1951. 105.3 An4C
- 42822 BROOKS, J. S., and PASS, H. Hybrid corn strains recommended for 1951, based on results of the Oklahoma corn performance tests, 1946-1950. Okla. Agr. Expt. Sta. Mimeog. C. M-210, 3 p. Jan. 1951. 100 Ok4M
- 42823 BRUCHER, H., and ÅBERG, E. Die primitivgersten des hochlands von Tibet, ihre bedeutung für die züchtung und das verständnis des Ursprungs und der klassifizierung der gersten. Sweden. *Lantbrhögsk. Ann.* 17:247-319. Ref. 1950. 104 Up6
- 42824 BRUNELLI, P. Hybrid corn. (In Italian.) *Avvenire Agr.* 59:29-30. Feb. 1951. 16 Av9
- 42825 BURMESTER, H. Das Burlos-verfahren. *Deut. Landwirt. Presse* 74:59-60. Mar. 3, 1951. 18 D482
- Grain planting.
- 42826 BURTON, G. W., and DEVANE, E. H. In ascendancy, Starr millet, synthetic cattail lasts longer, produces more beef per acre. *South. Seedsman* 14(3):17, 68-69. Mar. 1951. 61.8 So8
- 42827 CHAFFIN, W. Hybrid corn and fertilizers for corn. Okla. Agr. Col. Ext. C. 411, rev., 8 p. Feb. 1951. 275.29 Ok41C
- 42828 CLAPP, A. L., and TATUM, L. A. Kansas corn tests, 1950. Kans. Agr. Expt. Sta. B. 347, 45 p. Feb. 1951. 100 K13S
- 42829 CLÉMENT, F. P. Un triomphe de la génétique, le maïs hybride. *Rev. Internatl. des Prod. Colon.* 26:39-41. Feb. 1951. 286.8 R326
- 42830 CLINTON, D. D. Fall oats. *Milk Prod. [Houston]* 15(10):14. Oct. 1950. 44.8 M5993
- Culture.
- 42831 COLLINS, E. R. Hybrid corn has helped Carolina farmers double their production. *Patron* 11(8):4, 7. Feb. 1951. 280.28 P27
- 42832 DEMARIA MASSEY, D. El sorgo azucarado de Minnesota. Uruguay. *Min. de Ganad. y Agr. B. Inform.* 7(357):5. Jan. 25, 1951. 9.9 G15B
- 42833 EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE. Grain production; report on conference held in Perth on Wednesday, 2nd August 1950. *Edinb. & East Scot. Col. Agr. B.* 25, 55 p. Aug. 1950. 103 Ed4E
- 42834 ELAM, F. L. Special hybrids tailored to California may make corn a native instead of a stranger in our midst. *West. Livestock J.* 29(22):42-43, 70-72. Mar. 15, 1951. 6 F2278



- 42835 FENAROLI, L. Hybrid corn produced in Italy. (In Italian.) *Italia Agr.* 88:77-84. Feb.1951. 16 It1
- 42836 FERRI, P. How the culture of grain presents itself. II. (In Italian.) *Terra [Firenze]* 62(7):2. Feb.18, 1951. 16 T274
- 42837 FISHER, F. Sorghum-growing in the U. S. A. (In Hebrew.) *Hassadeh* 31:146-149. Jan.1951. 26 H27
- 42838 FOUQUET, R. Résultats de l'expérimentation des cultures de maïs-grains en Eure-et-Loir. *Défense Agr. de la Beauce et du Perche* 48:97-99. Mar.3, 1951. 14 D36
- 42839 GAMA, F. DA C. Aspects of rice culture in Santa Catarina. (In Portuguese.) *Lav. Arroz.* 4(48):12,14. Dec.1950. 59.8 L39
- 42840 GEORGE, L. V. Dixie 18, hybrid corn, stands up with best. *South. Seedsman* 14(3):14,67. Mar.1951. 61.8 S08
- 42841 GERMAN, R. Creation and use of hybrid corn in the United States and European countries. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 1951(11):1-3. Feb. 12, 1951. 281.8 Ag3
- 42842 GHISLENI, P. Notes on Sardinian rice culture. (In Italian.) *Risicoltura* 38:258-262. Nov.1950. 59.8 G43
- 42843 GOMES, P. The culture of adlay. (In Portuguese.) *Lavoura* 54:41-42. Nov./Dec.1950. 9.2 L39
- 42844 GONÇALVES, P. A. The characteristics of Blue Rose in crosses. (In Portuguese.) *Lav. Arroz.* 4(47):11. Nov.1950. 59.8 L39
- 42845 GONÇALVES, P. A. Rice growing in California. (In Portuguese.) *Lav. Arroz.* 5(49):13-16. Jan.1951. 59.8 L39
- 42846 GORSHKOV, M. P. Organizatsiia uborki zernovykh kul'tur v kolkhozakh [Organization of grain harvesting on collective farms]. *Moskva, Gos. Izd-vo Selkhoz Lit-ry*, 1950. 478 p. 283 G880
- 42847 GT. BRIT. COLONIAL OFF. Report of the sorghum mission to certain British African territories. *Gt. Brit. Colon. Adv. Council Agr. Anim. Health & Forestry* P. 2.105 p. Ref. 1951. 281.9 G793
- 42848 HALADA, C. Prof. Norman P. Neal—promoter of Wisconsin hybrids. *Wis. Country Mag.* 44(6):8-9,16. Mar.1951. 276.8 St9
- Corn.
- 42849 HARRISON, T. J., and BENDELOW, V. M. The work of the Barley Improvement Institute in Canada. *Amer. Soc. Brewing Chem. Proc.* 1950:33-36. 1951. 390.9 Am321
- 42850 HAUCK, Braugerstenbau 1951. *Bad. Landwirt. Wchnbl.* 118:124-125. Feb.24, 1951. 18 B142
- 42851 HENDERSON, F. M. The management of rye-corn is the secret of its success as a cereal crop. *Straight Furrow* 10(3):54-55. Jan.1951. 281.8 St8
- 42852 HOW THAILAND produces its rice. *Agr. & Indus. Life* 13(2):2-3,33,36. Feb.1951. 25 Ag8
- 42853 JETER, F. H. And the rains came when they were needed. *Victory Farm Forum* 41:7. Mar.1951. 281.8 F226
- Corn yields in North Carolina.
- 42854 JOHNSON, A. A. More home grown feed from oats and barley. *Amer. Agr.* 148:215,219. Apr.7, 1951. 6 Am3
- 42855 KENNEDY, N. F. Chemurgy and corn; the corn processor talks to the corn breeder. I. *Chemurg. Digest* 10(4):14-15. Apr.1951. 381 N213Na
- 42856 KIRSTE, A. Entwicklungslinien in der züchtung von getreidesorten. *Neue Mitt. f. die Landwirt.* 6: 101-102. Feb.17, 1951. 18 N39
- 42857 KOOPMAN, C. Culture of corn for grain. I. (In Dutch.) *Groninger Landtbl.* 29:6. Jan.6, 1951. 12 G892
- 42858 LEBEDEFF, G. A., and others. Georgia corn performance tests, 1950. *Ga. Agr. Expt. Sta. C.* 157,15 p. Feb.1951. 100 G298
- W. H. Freeman, S. B. Parkman, O. L. Brooks and E. B. Browne, joint authors.
- Georgia Coastal Plain Experiment Station and U. S. Bureau of Plant Industry, Soils, and Agricultural Engineering cooperating.
- 42859 LE CONTE, J. Sélection généalogique du maïs et production de semence hybride. *Agron. Trop.* 6:43-54. Jan./Feb.1951. 26 Ag86
- 42860 LEFFLER, A. T. Big ears mean stand too thin. *Iowa Bur. Farmer* 15(4):24. Apr.1951. 275.29 Iowa
- Corn.
- 42861 LIERMAN, M. Etudes des ingénieurs agronomes praticiens sur la culture du blé. *Cahiers des Ingén. Agron.* 6:33-34. Fourth Q.1950. 14 C112
- 42862 LOBOS, C. A. V. The farmer must not lose the opportunity of planting rice. (In Portuguese.) *Gaz. do Agr.* 3:12,14. Jan.1951. 24 G25
- Mozambique.
- 42863 LUCHSINGER, MADORIN & CIA. Practical guide for wheat growing in the prairies. (In Portuguese.) *Lav. Arroz.* 5(49):29-30,32. (To be cont.) Jan.1951. 59.8 L39
- Brazil.
- 42864 MACHADO, S. S. Yield of the 1949/50 crop. (In Portuguese.) *Lav. Arroz.* 5(49):20. Jan.1951. 59.8 L39
- Brazil.
- 42865 MCNEILL, J. R. Redbine 60, 66 and combine Kafir 60, the three hottest Sorghums and how they perform. *South. Seedsman* 14(3):25,52-53,56. Mar.1951. 61.8 S08
- 42866 MAYER, R., LIGNON, R., and DESPREZ, V. Problèmes posés par l'amélioration des variétés de blé. *Cahiers des Ingén. Agron.* 6:35-39. Fourth Q.1950. 14 C112
- 42867 MIEGE, E. Les céréales secondaires en Afrique du Nord. *Rev. Internatl. de Bot. Appl. et d'Agr. Trop.* 30:555-578. Nov./Dec.1950. 26 R323
- 42868 MIEGE, M. La culture du riz au Maroc. *Rev. Internatl. des Prod. Colon.* 26:37-38. Feb.1951. 286.8 R326
- 42869 MIEGE, M. Le maïs au Maroc. *Rev. Internatl. des Prod. Colon.* 26:42-43. Feb.1951. 286.8 R326
- Culture.
- 42870 MONSERRRO, F. B. Care with hybrid corn! (In Portuguese.) *Rio Grande do Sul. Sec. da Agr. Indus. e Com. Inform. Rur.* 3(15):12-13. Dec.1950. 9.2 R474I
- 42871 MULDER, F. Varietal investigation of the experimental field commission of the Beerta section. (In Dutch.) *Groninger Landtbl.* 29(2):11;(3):2. Jan.13-20, 1951. 12 G892
- Grain.
- 42872 NELSON, C. E., and MILLER, A. G. Progress report on varietal trials of cereal crops and soybeans. *U. S. Bur. Plant Indus., Soils & Agr. Engin. Div. Soil Mangt. & Irrig. Res. Rpt.* 209,12 p. Mar.30, 1951. 1.965 S4R312
- 42873 NETHERLANDS. RIJKSINSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Haver [Oats]. *Netherlands. Rinst. v. Rassenonderz. van Landgewassen. Ber. over Rassenkeuze* 92,4 p. Dec.27, 1950. 64.9 W12
- 42874 NETHERLANDS. RIJKSINSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Januari gezaaide wintertarwe, overgangstarwe en zomertarwe [Winter wheat seeded in January, transition wheat and summer wheat] 1951. *Netherlands. Rinst. v. Rassenonderz. van Landgewassen. Ber. over Rassenkeuze* 90,3 p. Dec.27, 1950. 64.9 W12
- 42875 NETHERLANDS. RIJKSINSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Zomergest [Summer barley]. *Netherlands Rinst. v. Rassenonderz. van Landgewassen. Ber. over Rassenkeuze* 91,4 p. Dec.27, 1950. 64.9 W12
- 42876 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF PLANT INDUSTRY. Varieties of wheat recommended for 1951 sowing. *Agr. Gaz. N. S. Wales* 62:17-21. Jan.1, 1951. 23 N472
- 42877 OLIVEIRA, E. N. DOS S. In defense of corn culture. (In Portuguese.) *Gaz. do Agr.* 3:11-12. Jan.1951. 24 G25
- Mozambique.
- 42878 PEQUIGNOT, R. Comme les avoines et les orges peuvent et doivent être semées de bonne heure. *Motorisation Agr.* 5(52/53):31,33,35. Dec.1950/Jan.1951. 58.8 M86
- 42879 PIACCO, R. History of rice strains grown in Italy. (In Italian.) *Risicoltura* 38:267-280. (Cont.) Ref. Nov.1950. 59.8 G43
- 42880 PORTERES, R. Primitivité et progrès dans l'évolution au sein du genre *Oryza*. *Rev. Internatl. de Bot. Appl. et d'Agr. Trop.* 30:603-610. Nov./Dec.1950. 26 R323
- 42881 REBIFFÉ, J. Les maïs hybrides. *Défense Agr. de la Beauce et du Perche* 48:89-91. Feb.24, 1951. 14 D36
- 42882 RIJCKE, E. DE. Oats for seeding. (In Flemish.) *Cult. en Handel* 17:40-41. Jan.1951. 80 C892
- Chiefly on varieties.
- 42883 ROZENTRETER, N. A. Importance of root system in wheat breeding. (In Russian.) *Selek. i Semen.* 17(10):10-15. Oct.1950. 61.9 Se5
- 42884 SCHRÖDER. Saatenanerkennung bei haferberücksichtigung der sortenfrage. *Landwirtbl. Weser-Ems* 98:115-116. Feb.8, 1951. 18 L2345
- 42885 SHELLENBERGER, J. A., and others. Environment and Kansas wheat varieties. *Kans. Agr. Expt. Sta. C.* 270,19 p. Dec.1950. 100 K13S
- J. A. Johnson, H. H. Laude, and G. D. Miller, joint authors.



- 42886 SILVEIRA, A. DE C. The evolution of wheat culture in Rio Grande do Sul and its phytotechnical basis. (In Portuguese.) Rio Grande do Sul. Sec. da Agr. Indús. e Com. Inform. Rur. 3(15):1,3-7. Dec.1950. 9.2 R4741
- 42887 SKAARE, S. Varieties and combine threshing. (In Norwegian.) Norsk Landbr. 17:106-107. Mar.16,1951. 11 N8122
- 42888 SKIVER, C. E. Three new wheats for Great Plains. Flying Plowman 5:1,3. Jan.1951. 58.8 F67
- 42889 SUGAWARA, T. Suiden no gijutsu to keiei [Technique and management of paddy-field cultivation]. Tokyo, Seibundo Shinko-sha, 1950. 223 p. 59.24 Su32
- 42890 UNION NATIONALE DES COOPERATIVES AGRICOLES DE CÉRÉALES. Semences. Paris, 1950? 35 p. 61.9 Un32
- 42891 VALDEYRON, G. Le changement de semence de Florence x Aurore et le charbon interne des céréales. Almanach Agr. Tunisien 1951:149-155. 24 AL6
- 42892 VIGO, J. M. Maíces híbridos argentinos. Chacra 21(244):10-11. Mar.1951. 9 C34
- 42893 WATSON, J. The maintenance of true stocks of cereals and commercial plant-breeding methods. Edinb. & East Scot. Col. Agr. B. 25:24-32. Aug.1950. 103 Ed4E  
Includes discussion.
- 42894 WILSON, A. S. B. Oat and barley varieties. Edinb. & East Scot. Col. Agr. B. 25:14-23. Aug.1950. 103 Ed4E  
Includes discussion.
- 42895 ZUBER, M. S., GROGAN, C. O., and ASLIN, W. E. 1950 yield trials with corn hybrids in Missouri. Mo. Agr. Expt. Sta. B. 544,27 p. Dec.1950. 100 M693
- Fiber Crops**
- 42896 ATKINSON, T. E. Arkansas increases cotton yields in balanced program. Victory Farm Forum 41:13-14. Mar.1951. 281.8 F226
- 42897 BALASUBRAHMANYAN, R., SANTHANAM, V., and PILLAI, S. M. Inheritance of three new characters in the 'Cocanadas' cotton. Indian Cotton Growing Rev. 4:154-166. Ref. July 1950. 72.8 In23
- 42898 BALASUBRAHMANYAN, R. A note on the mixed cropping trials at Guntur. Indian Cotton Growing Rev. 4:173-177. July 1950. 72.8 In23
- 42899 CARNEY, C. B. Utilizing weather forecasts in cotton production. Cotton Insect Control Conf. Proc. 4:33-37. 1950. 423.9 C82
- 42900 CUBA, P. Cotton returns to stay. (In Portuguese.) Rev. dos Mercados 1(2):34,36. Oct.1950. 286.8 R328  
Brazilian culture.
- 42901 CUMMINGS, R. W. Good production practices and increased acreage essential to meet 1951 cotton production goals. Victory Farm Forum 41:8-9. Mar.1951. 281.8 F226
- 42902 DEMKIN, A. P., and ASTAKHOVA, A. V. Free intervarietal cross-pollination in hemp. (In Russian.) Selekt. i Semen. 17(11):19-26. Nov.1950. 61.9 Se5
- 42903 DICK, J. B., and EWING, E. C., JR. Cotton variety tests in the Yazoo-Mississippi Delta, 1946-49. Miss. Agr. Expt. Sta. B. 475,15 p. Dec.1950. 100 M69
- 42904 FREDERIKSEN, P. S. Spring observations on the coming flax crop. (In Danish.) Dansk Landbr. 70:105-106. Mar.1,1951. 280.28 V91
- 42905 GANESAN, D. "Agronomic effect" on the quality of cotton seed. Indian Cotton Growing Rev. 4:167-172. July 1950. 72.8 In23
- 42906 GODOY JUNIOR, C. Critical period for cotton in the São Paulo climate. (In Portuguese.) Rev. dos Mercados 1(2):31-33. Oct.1950. 286.8 R328
- 42907 GUNTER, A. C. Better than a bale to the acre in East Texas. Acco Press 29(3):28. Mar.1951. 6 Ac2
- 42908 HADDON, C. B. How to make good bricks without much straw. Victory Farm Forum 41:15. Mar.1951. 281.8 F226  
Cotton culture.
- 42909 HAWKINS, B. S., and others. Cotton variety tests, 1950 with five-year averages 1946-50. Ga. Agr. Expt. Sta. C. 168,11 p. Feb.1951. 100 G29S  
T. E. Steele, W. W. Ballard, and S. V. Stacy, joint authors.
- 42910 HOOVER, C. D. Cotton yields are increasing in Mississippi. Victory Farm Forum 41:10-11. Mar. 1951. 281.8 F226
- 42911 HOOVER, M. Growing cotton in the San Joaquin Valley of California. Acco Press 29(3):29-31. Mar.1951. 6 Ac2
- 42912 IBARRA GARCIA, P. Qué período es propio para sembrar algodón en esta comarca. Agr. Lagunero 4(46):37,39-40. Jan./Feb.1951. 8 Ag824
- 42913 ILTIS, J. Le coton au Maroc. Terre Marocaine 25(255):35-42. Ref. Feb.1951. 24 T44  
Chiefly culture.
- 42914 LABRIEGO, J. El "kenaf" y la "rosella." Chacra 21(244):60-61. Mar.1951. 9 C34  
Culture.
- 42915 MAY, J. C. Better cotton in bigger yields. Internat. Cotton B. 19(73):15-18. Jan./Feb.1951. 72.8 In8  
Research in Uganda.
- 42916 NAWAZ, S. M., and AFZAL, M. The effect of delayed picking on the quality of cotton. Agr. Pakistan 1:186-202. Ref. 1950. 22 Ag832
- 42917 O'KELLY, J. F., and others. 1950 cotton variety tests in Hill sections of Mississippi. Miss. Agr. Expt. Sta. B. 477,7 p. Jan.1951. 100 M69  
S. P. Crockett, L. Walton, and B. C. Hurt, Jr., joint authors.
- 42918 PADEN, W. R. Need for more cotton can be met by increased yields. Victory Farm Forum 41:4-5. Mar.1951. 281.8 F226  
Culture.
- 42919 SAINT-QUENTIN, M. La culture du lin de printemps. Rustica 24:202. Mar.4,1951. 14 R92
- 42920 SANTOS, E. Plantas têxteis [Textile plants]. Vamos para o Campo 58,15 p. 1950. 9.2 V25
- 42921 SUSTRINA, V. E. Intervarietal free cross-pollination of Middle-Russian hemp. (In Russian.) Agrobiologiya 1950(6):100-103. Nov./Dec.1950. 20 Ag822
- 42922 WELCH, C. L. Cotton production problems in 1951. Cotton Insect Control Conf. Proc. 4:7-10. 1950. 423.9 C82
- 42923 WHITE, W. C. Higher yields for Virginia. Victory Farm Forum 41:14-15. Mar.1951. 281.8 F226  
Cotton.
- 42924 WILDS, G. J. Breeding cotton to improve quality. Cotton Trade J. Internat. Ed. 31(10):232-233, 240,242. Mar.9,1951. 72.8 C82141
- Forage Crops and Grasses**
- 42925 AHLGREN, G. H., WASHKO, W. W., and MCCUTCHEON, G. K. A comparison of methods for seedling bromegrass. N. J. Agr. Expt. Sta. B. 755,7 p. Mar. 1951. 100 N46S
- 42926 ALBES. Waldweide, vom standpunkt des forstmannes gesehen. Forstwirt. Holzwirt. 4:381-382. Dec.1/15,1950. 99.8 F7793  
Germany.
- 42927 BALMOS, D. Restoring our rangelands. Tex. Livestock J. 10(2):7,56-57. Feb.15,1951. 49 T29
- 42928 BARRON, J. R. A development plan for grassland. Farming News & No. Brit. Agr. 103:28-29. Jan.1, 1951. 10 N82  
In Great Britain.
- 42929 BERGER, K. C. Here's the latest on raising legumes and grass for seed. Successful Farming 49(4):104,106,188-189. Apr.1951. 6 Su12
- 42930 BLIN, H. L'exploitation intensive des herbages. Agr. Prat. 115:82-83. Feb.1951. 14 J82
- 42931 BODDY, H. Spring pasture care. West. Dairy J. 7(5):13,45-47. Mar.1,1951. 44.8 W524
- 42932 BONETTI, S. The importance of the source of alfalfa seeds. (In Italian.) Almanacco Agr. (1951)62:55-58. 1950. 16 AL6
- 42933 BROWNING, D. R. What the Danes say about growing and using fodder beet. Farmer & Stock-Breeder 65(3207):102. Apr.10/11,1951. 10 F228
- 42934 BUDD, J. L. A rancher's viewpoint. Wyo. Wool Grower 6(12):4-5,7. Mar.29,1951. 280.38 W99  
Range management.
- 42935 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Third annual report, Sonoma County, irrigated pasture management study for the year 1950, by A. Shultis and W. C. Lusk. Berkeley, 1951. 7 p. 275.29 C12En
- 42936 CAPUTA, J., and RAPIN, J. Influence de la provenance des semences sur le développement et le rendement de la luzerne et de quelques graminées fourragères. Rev. Romande d'Agr. de Viticult. et d'Arboricult. 7:9-11. (Cont.) Feb.1951. 17 J82A
- 42937 CARLETON, M. "Paving" with grass; you can eliminate that mud and dust, and improve the appearance and value of your property at low cost by using the new fescues. Country Gent. 121(4):99-100. Apr.1951. 6 C833



- 42939 CITTADINI, J. C. Leguminosas como forrajeras en Santa Cruz e instalaciones de un alfalfar en la región. Res 19:25787-25788. Mar.5,1951. 286.85 R31 Culture.
- 42939 COBB, W. T. Control and use of Johnson grass. La. Agr. Col. Ext., Ext. P. 1067,12 p. Aug.1950. 275.29 L93Ep
- 42940 COOPERATIVE G. L. F. EXCHANGE. Spring 1951, G. L. F. planting guide for dairymen. Ithaca, N.Y., 1951. 16 p. 6 G11  
Chiefly forage plants.
- 42941 CORNELIUS, D. R. Relative rating of forage species for reseeding forest ranges in northeastern California. U. S. Forest Serv. Calif. Forest & Range Expt. Sta. Forest Res. Note 76,4 p. Feb.26,1951. 1.9 F7626R
- 42942 DAVIES, W. Grassland practice in the United States. Gt. Brit. Min. Agr. Agriculture 57:562-566. Mar. 1951. 10 G79J
- 42943 DENUX, P. Il faut soigner les prairies naturelles. Tarn-et-Garonne Agr. 14:30-32. Feb.1951. 14 T17
- 42944 DICKEY, J. B. R. "Band method" of seeding clovers and grasses. Pa. Farmer 144:256,275. Mar.24, 1951. 6 P383
- 42945 ELDRIDGE, R. M. Grass grows green in earth's Elysian fields. Sup. ed. Kansas City, Mo., Rudy-Patrick Seed Co., 1950. 31 p. 60.1 EL2G
- 42946 EVERLY, R. T. Legume pollination problems. Ind. Acad. Sci. Proc. (1949)59:164-172. Ref. 1950. 500 In2
- 42947 FRAX BENEDI, E. Derecho Administrativo Forestal. Montes. III. B. de Divulg. Ganad. [Valladolid] 7:295-301. Sept.1950. 49.9 Sp12  
Forest ranges. Spain.
- 42948 GAUL, Wie kommt man zu gutem und reichlichem Futter? Bad. Landwirt. Wchnbl. 118:122-124. Feb.24,1951. 18 B142
- 42949 GIFFORD, C. W., and WENNBLOM, R. D. A new pasture every morning? Farm J. 75(5):36-38,160-161. May 1951. 6 F2212
- 42950 GILDENHUY, P. J. Fertility studies in *Seriatia sphacelata* (Schum) Stapf and Hubbard. Union So. Africa. Dept. Agr. Sci. B. 314.45 p. Ref. 1950. 24 So84S
- 42951 GLADKII, M. F. *Esparset* [Sainfoin]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 47 p. 60.3 G45
- 42952 GOODING, T. H. Hairy vetch for Nebraska. Nebr. Agr. Expt. Sta. C. 89,7 p. Feb.1951. 100 N27
- 42953 GRAETZ, K. E. Shrub lespedeza requires insect pollination. Soil Conserv. 16:224-226. May 1951. 1.6 So3S
- 42954 GRIFFITHS, R. L. Murray Plains Pasture Improvement and Soil Control Competition, 1950. So. Austral. Dept. Agr. J. 54:263-266,271. Jan.1951. 23 So84
- 42955 GRIFFITHS, R. L. Pasture plants for the wheat farm. So. Austral. Dept. Agr. J. 54:180-183. Nov.1950. 23 So84
- 42956 HAASE, Zum wirtschaftsaufbau grossbäuerlicher grünländbetriebe. Landwirtbl. Weser-Ems 98:180-182. Mar.1,1951. 18 L2345
- 42957 HAGEN, C. At last Spanish sweetclover seed here [Pacific Northwest]. Wash. Farmer 76:237,252-253. Apr.5,1951. 6 R151
- 42958 HARRISON, C. M. Protect those spring pastures. Hoard's Dairyman 96:296-297. Apr.10,1951. 44.8 H65
- 42959 HARVEY, C., SCHEMBER, V. E., and POTTS, R. C. Know your clovers: bur clover. Coastal Cattleman 16(11):30. Jan.1951. 43.8 C63
- 42960 HAUSMANN, G. The improvement of permanent grasslands. (In Italian.) B. dell'Agr. 85(4):1-2. (To be cont.) Feb.23,1951. 16 B87
- 42961 HIGGINS, P. Texas trials show buffelgrass [*Pennisetum ciliare*] best yet for sandy lands. South. Seedsman 14(4):21,45,48. Apr.1951. 61.8 So8
- 42962 HOLT, E. C., and others. Cool season grasses at College Station, Denton and Iowa Park. Tex. Livestock J. 10(2):30,34,42. Feb.15,1951. 49 T29
- D. I. Dudley, L. E. Brooks, and R. C. Potts, joint authors.
- 42963 HOVD, A. Permanent pasture on moss marsh. (In Norwegian.) Landbruksstidende 57:8-9. Jan.3,1951. 11 L236
- 42964 HURTT, L. C. Managing northern Great Plains cattle ranges to minimize effects of drought. U. S. D. A. C. 865,24 p. Ref. Mar.1951. 1 Ag84C
- 42965 JACKLIN, A. W. So you want to grow grass seed! Utah Farmer 71:265,279-280. Apr.5,1951. 6 D45
- 42966 KORNILOV, A. A. Dolinskii No. 1 wheatgrass [*Agropyron sibiricum subaristatum*]. (In Russian.) Selekt. Semen. 17(10):30-32. Oct.1950. 61.9 Se5
- 42967 KRUTOV, I. On growing grass and legume mixtures in the field crop rotations of Amur Region. (In Russian.) Sovet. Agron 8(12):64-66. Dec.1950. 20 So84
- 42968 LESINS, K. Investigations into seed setting of lucerne at Ultuna, Sweden, 1945-1949. Sweden. Lantrhögsk. Ann. 17:441-483. Ref. 1950. 104 Un6
- 42969 LINK, H. Vorbereitungen zur heuernte. Neue Mitt. f. die Landwirt. 6:116-117. Feb.24,1951. 18 N39
- 42970 LITTON, G. W. Sheep are conservationists. 'Show me a pasture grazed by sheep, and there's sure to be the return of fertility to the spot that usually erodes first.' Breeder-Stockman 12(11):24. Apr.1951. 49 V81
- 42971 MACDONALD, H. A. Birdsfoot trefoil, a hay and pasture legume for New York. N. Y. Agr. Col. Dept. Agron. Mimeo. 895,5 p. Apr.6,1950. 276 C813  
Culture.  
Similar title issued as Mimeo. 895a,4 p. Apr.6,1950.
- 42972 MANN, D. H. Alkaline soil will grow perennial grass. Utah Farmer 71:121,136. Feb.15,1951. 6 D45
- 42973 MARCUSSEN. Leistungssteigerung auf dem marschengrünland. Neue Mitt. f. die Landwirt. 6:151-153. Mar.10,1951. 18 N39  
Germany.
- 42974 MARTIN, S. La féverole-grain, aliment concentré pouvant être produit à la ferme. Défense Agr. de la Beauce et du Perche 48:107. Mar.3,1951. 14 D36  
Culture and use in animal nutrition.
- 42975 METIVIER, S. Les prairies artificielles sont trop négligées. Défense Agr. de la Beauce et du Perche 48:84. Feb.10,1951. 14 D36
- 42976 MINOR, W. A. Grass and progress. Washington, U. S. D. A., Off. Sec., 1951. 9 p. 1.91 A2M66  
Talk at the Valley States Conference, Knoxville, Apr. 11, 1951.  
The National grasslands program.
- 42977 MORSE, T. D. Have we been over-sold on grass farming? Farm J. 65(4):32-33,39. Apr.1951. 6 F2212
- 42978 NEW YORK STATE COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. 1951 hay and pasture seedings. N. Y. Agr. Col. Cornell Ext. B. 781,rev.,6 p. Jan.1951. 275.29 N48E  
Also in N. Y. Agr. Col. Dept. Agron. Mimeo. 902,4 p. Nov.13,1950. 276 C813
- 42979 ORTHMANN, K., and ARNOLD, J. Bodenständiges klee- und luzernesaatgut. Neue Mitt. f. die Landwirt. 6:150. Mar.10,1951. 18 N39
- 42980 PATERSON, R., and others. Question—how can we double production from Britain's grassland? Dairy Farmer 24(4):22-23,25. Apr.1951. 44.8 D1414  
J. S. Morrey, T. S. Bennett, and A. G. Davies, joint authors.
- 42981 PELLET, M. Exploitation rationnelle des paturages. Cahiers des Ingén. Agron. 6:10-21. Fourth Q. 1950. 14 C112
- 42982 PENNY, J. M. Barnyardgrass, *Echinochloa crusgalli*. (In Portuguese.) Lav. Arroz. 4(48):15-17. Dec.1950. 59.8 L39
- 42983 PERSI, R. Management of permanent pastures for proper feeding of livestock. (In Italian.) Campagna 49:228-229. Dec.15,1950. 16 C152
- 42984 PILATOVICH, Z. Old local populations of Permian red clover and methods for improving them. (In Russian.) Selekt. i Semen. 17(11):51-58. Nov.1950. 61.9 Se5
- 42985 PIZA, J. E. Kudzu tropical (Pueraria javanica). Suelo Tico 4:405-408. Nov./Dec.1950. 8 Su2
- 42986 POZO, C. DEL. La veza. Badajoz. Diputación Prov. B. de Inform. Agr. y Ganad. 8(82):9-14. Nov./Dec. 1950. 15 B14  
Culture.
- 42987 PRELLER, J. H. Pasture and pasture crops; results obtained with grazing experiments on natural veld and established pastures. Union So. Africa. Dept. Agr. Sci. B. 280,94 p. 1950. 24 So84S
- 42988 RENTUS, W. Aussaat und pflege der luzerne. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:276-277. Feb.22,1951. 18 L2346
- 42989 RIEWE, M. E., and TURNER, W. F. 23 legumes tested at Angleton Station. Tex. Livestock J. 10(2):93,96. Feb.15,1951. 49 T29
- 42990 ROTTBØL. What are "S" strains? Are they of interest to us? (In Danish.) Dansk Landbr. 70:74. Feb.8,1951. 280.28 V91  
Grasses.
- 42991 ROUNDTREE, B. From the Dark Continent buffelgrass [*Pennisetum ciliare*] offers first promise of brighter future for arid lands. South. Seedsman 14(4):20-21. Apr.1951. 61.8 So8



- 42992 ROWLAND, J. W. The use of perennial leys in farming rotations. II. Ley rotations which include cash crops. *Farming So. Africa* 26:52-57. Feb. 1951. 24 S4842
- 42993 RYCKE, E. DE. Les prairies permanentes. *Cour. Hort.* 13:42-43. Jan. 1951. 80 C834
- 42994 SCHMIDT, F. Futterpflanzen-samenbau in Baden. *Bad. Landwirt. Wchnbl.* 118:125-127. Feb. 24, 1951. 18 B142
- 42995 SHOSHIN, A. A. Occurrence of variegated vetch [*Vicia pecta*] in plantings [of grass mixtures] as an indicator of the effect of a young windbreak on moisture accumulation. (In Russian.) *Priroda* 39(10):59-60. Oct. 1950. 410 P933
- 42996 SIMONOV, S. N. Sbor i ispol'zovanie sem'ân dikorastushchikh trav [Collection and utilization of seeds of wild-growing grasses and legumes]. Moscow? Moskovskii Rabochii, 1950. 89 p. 60.1 S15
- 42997 SINKS, A. H. High-yield, hot-weather pasture; Northeast dairymen have found a combination to beat that summer slump. It's an orchard grass-ladino mixture, grazed intensively in rotation plots. *Country Gent.* 121(4):36,120-122. Apr. 1951. 6 C833
- 42998 SINSKAJA, E. N. Mnogoletnie bobovye travy [Perennial leguminous plants], v. 1. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 526 p. (Leningrad. Institut Rastenievodstva Kul'turnaja flora SSSR. v. 13) 60.3 S183M
- 42999 SPIESS, P. Die dänische landwirtschaft; eindrücke von einem grünlandlehrgang in Dänemark. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:279. Feb. 22, 1951. 18 L2346
- 43000 STEWART, G., and others. Recommendations for range reseeding in Utah. *Utah. State Agr. Col. Ext. B.* 212,12 p. Jan. 1951. 275.29 Utl
- L. A. Stoddart, H. J. Burbach, J. A. Libby, R. L. Wrigley, D. M. Gaffin and R. A. Roundy, joint authors.
- 43001 STEWART, J. G. Mangolds. *Gt. Brit. Min. Agr. Agriculture* 57:567-569. Mar. 1951. 10 G79J
- Production for feed.
- 43002 SVENDSTRUP, J. K. Effects of grazing conditions on management. (In Danish.) *Dansk Landbr.* 70:147-149. Mar. 29, 1951. 280.28 V91
- 43003 TALLARICO, G. The "forage forest." (In Italian.) *Glor. di Agr.* 61:75. Mar. 11, 1951. 16 R1G
- Corn culture.
- 43004 THOMPSON, W. R. The Mississippi grassland farming program. *Miss. Banker* 35(10):12. Mar. 1951. 284.8 M69
- 43005 THROCKMORTON, R. I. Get more alfalfa seed. *Country Gent.* 121(4):29,100,102-103,105. Apr. 1951. 6 C833
- 43006 TOLNER, J. The culture of lupine. I.V. (In Dutch.) *Plattelands-Post* 7(1):6;7(6):3. Jan. 6, Feb. 10, 1951. 12 P69
- 43007 TURK, K. L. Green acres—an improved forage program for New York. *Dairymen's League News* 35(5):6,15. Mar. 6, 1951. 44.8 D1432
- 43008 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Report of species and strains of grasses distributed through Western Grass Breeders' Work Planning Conference, 1949. Beltsville, 1950. 18 p. 1.965 F2R29
- 43009 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. New styles in grass, by W. M. Myers, M. A. Hein, and K. M. Gopen. Washington, 1951. 4 p. 1.914 R2R11
- New grass varieties.
- 43010 VACCHERI, G. Cultivation of leguminous pastures. (In Italian.) *Campagna* 49:227-228. Dec. 15, 1950. 16 C152
- 43011 VALLE, O. The leafy turnip, a new fodder plant for Finland. *Food & Agr.* 3:201-203. Oct./Dec. 1950. 389.8 F7326
- 43012 WACHS, S. The growing of "Fahli" clover for seed. (In Hebrew.) *Hassadeh* 31:124-145. Jan. 1951. 26 H27
- 43013 WALL, P. F. Secrets of the "eternal" pastures in the Umvoti Vlei; Paspalum-clover combination thriving after establishment in vast swamp many years ago. *Farmer's Wk. [Bloemfontein]* 80:44-45. Feb. 14, 1951. 24 F225
- 43014 WASSENAAR, T. Farm with grass: Africa's surface gold. II. *Veldtrust* 12(12):28-29, 26. Dec. 1950. 56.8 V54
- 43015 WOODLE, H. A. No choppin', no plowin', no pickin' clover-fescue gaining favor over cotton as money-maker. *South. Seedsman* 14(4):19. Apr. 1951. 61.8 So8
- 43016 WOOLFOLK, E. J. Crested wheatgrass [*Agropyron cristatum*] grazing values. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 91, 10 p. Mar. 1951. 1.9622 N3R31

## Oil Crops

- 43017 BENING, W. First published report on soybeans; it was written in Germany in 1712. *Soybean Digest* 11(5):20-22. Mar. 1951. 60.38 So9
- 43018 BERTHAULT, P. Le tournesol. *Rev. Agr. de l'Afrique du Nord* 48:958-959. Dec. 29, 1950. 80 R326
- 43019 BLANCHARD, M. Le soja, son intérêt, ses possibilités culturales en Algérie. *Rev. Agr. de l'Afrique du Nord* 49:27-30, 55-59. Jan. 12-19, 1951. 80 R326
- 43020 BOUCHARD, F. Le colza en Beauce. *Défense Agr. de la Beauce et du Perche* 48:101-102. Mar. 3, 1951. 14 D36
- Culture.
- 43021 CHAFFIN, W. Castor bean production. *Oklahoma Agr. Col. Ext. C.* 552.4 p. n. d. 275.29 Ok41C
- 43022 FRANÇOIS, M. T., and COUTURIER, J. Examen et analyse de quelques échantillons de graines de ricin provenant d'essais de culture en 1949 dans le sud-ouest de la France. *Acad. d'Agr. de France. Compt. Rend.* 37:69-72. Jan. 10/17, 1951. 14 P215Bc
- Includes discussion.
- 43023 HEISER, C. B., JR. Hybridization in the annual sunflowers: *Helianthus annuus* × *H. argophyllus*. *Amer. Nat.* 85:65-72. Ref. Jan./Feb. 1951. 470 Am36
- 43024 HEISER, C. B., JR. Hybridization in the annual sunflowers: *Helianthus annuus* × *H. debilis* var. *cucumerifolius*. *Evolution* 5:42-51. Ref. Mar. 1951. 443.8 Ev62
- 43025 HUGHES, P. C. 6 right steps to peak production. *Soybean Digest* 11(5):13-15. Mar. 1951. 60.38 So9
- 43026 HUGHES, P. C. Soybeans for Arkansas. *Ark. Farmer* 53(4):12-14. Apr. 1951. 6 Ar42
- Culture and varieties.
- 43027 IATSENKO, V. G. New oil crop, *Crambe* [abysynica]. (In Russian.) *Selek. i Semen.* 17(10):37-40. Oct. 1950. 61.9 Se5
- 43028 KASATKIN, B. V. Best sequence of soybeans in the grass-field crop rotations of Northern Caucasus. (In Russian.) *Sovet. Agron.* 8(12):81-83. Dec. 1950. 20 So84
- 43029 LAVRONOV, G. A. Sesame culture on the arid lands of Uzbekistan. (In Russian.) *Selek. i Semen.* 17(11):59-61. Nov. 1950. 61.9 Se5
- 43030 LYNESS, W. E., and GROSS, D. L. Soybean production in Nebraska. *Nebr. Agr. Col. Ext. E. C.* 192, 2 p. 1951. 275.29 N272Ex
- 43031 PIRES, F. F. Notes on peanut culture. (In Portuguese.) *Gaz. do Agr.* 2:262-268, 301-303. Nov.-Dec. 1950. 24 G25

## Sugar Crops

- 43032 BAPTISTE, W. J. Florida's Fellsmere Plantation. *Sugar* 46(4):31-35. Apr. 1951. 65.8 F11
- 43033 BREDOW-STECHOW, VON. Praktische erfahrungen im zuckerrübenanbau. *Neue Mitt. f. die Landwirt.* 6:200. Mar. 31, 1951. 18 N39
- Germany.
- 43034 CONSTANTINESCU, A. 70 prozent zuckerrüben! *Neue Mitt. f. die Landwirt.* 6:148-149. Mar. 10, 1951. 18 N39
- Germany.
- 43035 KARPENKO, P. V. Sveklovodstvo [Sugar beet cultivation]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 302 p. (Uchebniki i Uchebnye posobiya Difa Vysshikh Sel'skokhoziaistvennykh Uchebnykh Zavedenii) 66 K143
- 43036 KRAUSE, F. Erfahrungen mit monogerm-rübensamen und gleichstandsart. *Neue Mitt. f. die Landwirt.* 6:8-9. Jan. 6, 1951. 18 N39
- 43037 MAURITIUS. SUGARCANE RESEARCH STATION. Twentieth annual report, 1949. Port Louis, 1950. 56 p. 65.9 M44
- 43038 MOLLER ARNOLD, E. Las fallas mas frecuentes que impiden un mejor éxito en los cultivos de betarraga sacarina. *Campesino* [Santiago] 83:47-48. Jan. 1951. 9.3 So12
- 43039 MONACI, M. Observations on the 1950 beet season in the Sienna Chiana Valley. (In Italian.) *Agr. Tosc.* 6:64-67. Feb. 1951. 16 Ag827
- 43040 OLIVEROS, S. B. Adventures in farming: crane loading of sugar cane. *Sugar News* 27:8-10. Jan. 1951. 65.8 Su36
- Philippines.



- 43041 PRISIAZHNIUK, P. F. Sowing unsegmented sugar beet seeds. (In Russian.) *Agrobiologiya* 1950(6): 86-93. Nov./Dec.1950. 20 Ag822
- 43042 QUEENSLAND. BUR. OF SUGAR EXPERIMENT STATIONS. Fiftieth annual report. Brisbane, 1950. 54 p. 65.9 Q3
- 43043 VALLANCE, L. G. Recent advances in sugar-cane culture in Queensland. *Empire J. Expt. Agr.* 19(73): 13-25. Ref. Jan.1951. 10 Em7

### Tobacco

- 43044 BATTISTELLI, E. Tobacco in the Province of Turin. (In Italian.) *Cron. Econ.* 95/96:35-37. Dec.15/30, 1950. 280.8 C882
- Culture.
- 43045 BORDELEAU, R. Uniformity in cigar tobacco plantations. Canada. Expt. Farms. Tobacco Div. *Lighter* 21:17-18. Feb.1951. 286.89 C16
- 43046 BURTSEV, I. A. Methods of growing cigar tobacco. (In Russian.) *Sovet. Agron.* 8(12):52-63. Dec. 1950. 20 So84
- 43047 COLLETT, W. J. That bewitching vegetable. O. A. C. Review 63:208,238,240. Jan.1951. 276.8 On8
- Tobacco history.
- 43048 GORBACHEV, V. Nouvelles sortes de tabac sovietique. *Rev. Internat. des Tabacs* 26:45-46. Feb. 1951. 69.8 R324
- 43049 HASLAM, R. J. The importance of burley tobacco production. Canada. Expt. Farms. Tobacco Div. *Lighter* 21:18-19. Feb.1951. 286.89 C16
- Canada.
- 43050 HUNT, R. A. Burley tobacco project for 4-H Clubs. Ky. Agr. Col. Ext. C. 486,29 p. Mar.1951. 275.29 K415
- 43051 KÖNIG, P. Aperçu sur les travaux réalisés par l'Institut Experimental du Tabac à Forchheim. *Rev. Internat. des Tabacs* 26:42-43. Feb.1951. 69.8 R324
- 43052 VAN ROOYEN, C. F., and PEENS, J. F. Harvesting and curing Orinoco tobacco. *Farming So. Africa* 26:43-44. Feb.1951. 24 So842
- 43053 WHITE, F. H. Tobacco breeding at Ottawa. Canada. Expt. Farms. Tobacco Div. *Lighter* 21:1. Feb. 1951. 286.89 C16

### HORTICULTURAL CROPS

Includes articles on general horticulture, and on varieties, breeding, cultural practices, and yield.

#### General

- 43054 AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE. Proceedings, v. 56, December 1950. Ithaca, 1950. 568 p. 81 So12
- 43055 ARKEMA, P. W. B. Sowing and sowing equipment. (In Dutch.) *Plattelandt-Post* 7(6):7. Feb.10,1951. 12 P69
- 43056 BEWLEY, W. F. Commercial glasshouse crops. London, Country Life, 1950. 509 p. 90.13 B68
- 43057 CAMP, W. H. The problem of fancy names; a scheme to bring order out of chaos. *Gard. Illus.* 68:111. Apr.1951. 80 G169
- 43058 CANADA. EXPERIMENTAL FARMS SERV. CENTRAL EXPERIMENTAL FARM, OTTAWA. DIV. OF HORTICULTURE. Progress report, 1934-1948. Ottawa, 1950. 259 p. 101 Ex6R
- 43059 COUTINHO, M. Notes on the care and preservation of gardens. (In Portuguese.) *Seleç. Agr.* 6(57):51-53. (Cont.) Jan.1951. 9.2 Se4
- Brazil.
- 43060 CULP, H. M. What the grower expects from his nurseryman. *Canad. Grower* 74(3):6-7. Mar.20,1951. 80 C16
- 43061 EDMOND, J. B., MUSSER, A. M., and ANDREWS, F. S. Fundamentals of horticulture; a textbook designed for courses in general horticulture. New York, Blakiston, 1951. 502 p. Ref. 90.4 Ed5
- 43062 EGBERTS, H. The horticultural plan of settlement. *Internat. Cong. Soil Sci. Trans.* 4(2):218-219. 1950. 58.09 In844
- Netherlands.
- 43063 EVERETT, T. H. Gardening handbook, Greenwich, Conn., Fawcett P., 1951. 144 p. (Fawcett Book, 116) 90.1 Ev2
- 43064 FAIRBANK, H. Experimental horticulture stations: 1. Luddington. *Gt. Brit. Natl. Agr. Adv. Serv. Q. Rev.* 10:57-62. Winter 1950. 241 G796

- 43065 GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Home garden for the Coastal Plain of Georgia. Ga. Coastal Plain Expt. Sta. Mimeog. Paper 12, rev., 2 p. Dec.1950. 100 G292M
- 43066 GRAVES, H. Gardening can be fun. *Dakota Farmer* 71(7):54. Apr.7,1951. 6 D14
- 43067 HAAN, H. DE. The new variety list. (In Dutch.) *Groninger Landbbl.* 29(2):4. Jan.13,1951. 12 G892
- Plants.
- 43068 HASTINGS, W. R. The 1952 All-America Selections. *Seed World* 68(5):8,10,53. Mar.2,1951. 61.8 Se52
- 43069 IRVING, F. H. Grow your own food. *Camp Fire Girl* 30(8):14. Apr.1951. 275.8 G932
- 43070 KNAPP, O. Plant culture and its requirements. (In Afrikaans.) *Landbouweekblad* 32(1650):21. Feb.28, 1951. 24 L232
- 43071 KÖNIG, A., and SCHNITTKER-PLASS, G. Die bebauung des bauerlichen hausgartens. IV-V. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:287-288. Feb.22,1951. 18 L2346
- 43072 LAWRENCE, W. J. C. Glasshouse production efficiency. *Grower [London]* 35:707-709. Apr.7,1951. 286.83 M34
- England.
- 43073 PEARSON, C. E. The development of modern horticulture. *Gt. Brit. Min. Agr. Agriculture* 57:573-578. Mar.1951. 10 G79J
- 43074 PENNSYLVANIA. DEPT. OF AGRICULTURE. List of certified nurserymen, dealers, and collectors effective October 1, 1950 to September 30, 1951. Pa. Dept. Agr. B. 33(6):1-51. Nov./Dec.1950. 2 P38B
- 43075 PRAVDIN, L. F. In regard to the cultivation of valuable tree species on the Black Sea coast in Krasnodar Territory. (In Russian.) *Akad. Nauk SSSR. Bot. Inst. Trudy. Ser. 6. Introd. Rast. i Zelenoe Stroitel'stvo* 1950:79-149. Ref. 451 Ak15
- 43076 PRECIADO C., A. Beneficios de la poda. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 41(190):29.36. Oct./Dec.1950. 8 R323
- 43077 RAYMOND, C. B., FISHER, E. G., and MACDANIELS, L. H. Planning and planting the home garden. N. Y. Agr. Col. Cornell Ext. B. 820,8 p. Feb. 1951. 275.29 N48E
- 43078 ROLL-HANSEN, J. The Council for Horticultural Research. (In Norwegian.) *Gartneryrket* 41:35-37. Jan.20,1951. 80 G1938
- 43079 SILVEIRA, G. G. DA. The National Society of Agriculture and professional horticultural education. (In Portuguese.) *Lavoura* 54:8-12. Nov./Dec.1950. 9.2 L39
- Brazil.
- 43080 SPENCER, E. L., and KELBERT, D. G. A. West Coast grower problems solved at Bradenton. Fla. *Grower* 59(4):10. Apr.1951. 80 F6622
- Florida Agricultural Experiment Station Gulf Coast Experiment Station.
- 43081 TAMBA, T., and HANASHIMA, T. Engel nymum [An introduction to horticulture]. Tokyo, Kawazu, 1950. 318 p. 90 T154
- 43082 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Are your planting plans geared to the Nation's needs? by H. K. Hill, J. B. Hasselman, and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11
- 43083 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. How much gardening this year, by M. L. Wilson, R. J. Haskell, and J. Tonkin. Washington, 1951. 3 p. 1.914 R2R11
- 43084 VADÉ, S. Fautes échec à la gelée blanche. *Vie à la Campagne* 40:62-64. Feb.1951. 80 V67
- 43085 WHITEHEAD, E. L. An Oklahoma garden planning guide. Okla. Agr. Col. Ext. C. 487,3 p. n.d. 275.29 Ok41C
- 43086 YOUNGMAN, W. H., and YOUNGMAN, A. S. The Star garden book; a complete garden helper written expressly for Washington and nearby Maryland and Virginia. 1951 ed. Washington, Evening Star Newspaper, 1951. 91 p. 90.3 Y8

#### Fruits--General

- 43087 ARISTEGUIETA, L. Frutos comestibles de Venezuela. *Soc. Venezol. de Clen. Nat. B.* 13(76):57-104. Ref. Jan./July 1950. 516 C172
- 43088 BATJER, L. I., and HOFFMAN, M. B. Fruit thinning with chemical sprays. U. S. D. A. C. 867,46 p. Ref. Mar.1951. 1 Ag84C
- 43089 BEAR, E. M. We shall try grassing down newly planted trees. *Grower [London]* 35:556-557. Mar.17,1951. 286.83 M34



- 43090 BERNARD, L. Le greffage des arbres fruitiers. Terre 336:1,3. Mar.22/28,1951. 281.8 T27
- 43091 BROOKS, R. M., and OLMO, H. P., comps. Register of new fruit and nut varieties. List No. 5. Amer. Soc. Hort. Sci. Proc. 56:509-537. Dec.1950. 81 Sa12
- 43092 EDWARDS, R. S. Blossom thinning experiment to control biennial bearing. Grower [London] 35:710-712. Apr.7,1951. 286.83 M34
- 43093 FRITH, H. J. Frost protection in orchards using air from the temperature inversion layer. Austral. J. Agr. Res. 2:24-42. Ref. Jan.1951. 23 Au783
- 43094 HÉGRAY, H. Fruits; calendrier perpétuel du fructiculteur. Ed. 5, rev. Paris,1950. 79 p. 93.5 H36
- 43095 HEY, G. L. Practical ideas for hormone plus vitamin spraying. Grower [London] 35:507,509. Mar.10, 1951. 286.83 M34
- Fruit spraying.
- 43096 IGARASHI, T. Jitsuyo kaju saibai no jissai [The practical side of fruit tree cultivation]. Tokyo, Taibun-kan,1950. 540 p. 93.28 Ig1
- 43097 KING, F. A. Cooking and dessert fruits of Tudor England. Fruit, Flower & Veg. Trades' J. 98(26): 18. Dec.23,1950. 80 F946
- 43098 KRUPENIKOV, I. A. From the history of orchard cultivation. (In Russian.) Sad i Ogorod 1950(12): 36-37. Dec.1950. 80 Sa13
- V. A. Lomikovsky's experiments in Ukraine.
- 43099 MORETTINI, A. Genetic improvement of fruit plants. (In Italian.) Cong. Agr. Naz. Atti 1948:411-436. 1950. 27 C7625
- 43100 NILSSON, F. Fruit and berry culture in the U. S. A. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:172-192. 86 Sv2
- 43101 OKANAGAN AGRICULTURAL CLUB. 1951 recommendations on [fruit] tree planting distances for B. C. growers. Country Life [Vernon] 35(3):6-7. Mar. 1951. 7 C832
- 43102 PAPAI, M. J. Chemical fruit thinning in the lower Hudson Valley. N. J. State Hort. Soc. Hort. News 32:2342,2350,2356. Feb.1951. 81 N46
- 43103 PERRONNE, P. Le verger familial. Rev. Agr. de l'Afrique du Nord 49:17-19. Jan.5,1951. 80 R326
- 43104 POMARANOV, S. F. The forest and the orchard. (In Russian.) Sad i Ogorod 1950(12):12-18. Dec.1950. 80 Sa13
- Effect of shelterbelts on frost resistance of fruit trees.
- 43105 RENNEN, F. Der obstdgarten im winter. I. Gartenbauwirtschaft [Wien] 1951:6. Jan.10,1951. 80 G1936
- 43106 ROLLINS, H. A. Orchard plans for 1951. Nur. New-Yorker 101:164,169. Mar.3,1951. 6 R88
- 43107 SCHMIDT, H. Aktivierung der ertragsfähigen obstdbaumbestände. Gartenjahr 6:3. Jan.1951. 80 G1932
- 43108 SHEWELL-COOPER, W. E. More fruit—better plants. New Health 26(3):16. Mar.1951. 449.8 N45
- 43109 SLATE, G. L. Fruit in the small garden. Horticulture 29:80,118. Mar.1951. 80 H787
- 43110 SVENSON, B. G. The fruit farms on the east coast of Skåne and their economic-geographical conditions. (In Swedish.) Svensk Geog. Årsb. 26:61-83. Ref. 1950. 502 L972
- English summary.
- 43111 THOMPSON, L. A., and HESSE, C. O. Some factors which may affect the choice of grafting compounds for top-working fruit trees. Amer. Soc. Hort. Sci. Proc. 56:213-216. Dec.1950. 81 So12
- 43112 VENEZUELA. DIRECCION DE AGRICULTURA. Ventajas que ofrece el embalado de matas según el método de "raíz descubierta" o de "escoba." Maracay, 1950. 5 p. 93.5 V55
- Fruit trees.
- Fruits--Citrus and Subtropical**
- 43113 ANZALAZ, F. A. El olivo en el viejo y en el nuevo mundo. Pampa Argentina 24(278):14,34. Jan./Feb. 1951. 9 P19
- History.
- 43114 CASTRO, O. E. Composition of a citrus orchard of an industrial character. (In Portuguese.) Gaz. do Agr. 2:274-275. Nov.1950. 24 G25
- 43115 CATALINA, L. La poda del olivo. Cult. Mod. 34:20-22. Jan.1951. 15 C89
- 43116 CHEYNE, O. B. M., and FERNANDO, P. D. L. Planting progress. Ceylon Coconut Q. 1(3):29-31. July/Sept.1950. 77.8 C33
- 43117 COOKE, F. C. Student training. Ceylon Coconut Q. 1(3):33-34. July/Sept.1950. 77.8 C33
- For coconut culture.
- 43118 DRAKE, J. Where do we go from here in citrus growing? Tex. Farming & Citricult. 27(9):4. Mar. 1951. 80 T31
- 43119 FRITH, H. J. A factorial field experiment with citrus. Irrig. Res. Sta. Int. Rpt. 10,18 p. June 1950. 55.9 G871
- 43120 GONZALEZ, L. G., and CASAL, C. R. Top-working pummelo trees by graftinarching. Philippine Agr. 33:278-284. Apr./June 1950. 25 P42
- 43121 GRANGER, J. A. Dooryard citrus plantings in Florida. Fla. Agr. Col. Ext. B. 140,rev.,20 p. Nov.1950. 275.29 F66
- 43122 HARTMANN, H. T. The effect of girdling on flower type, fruit set, and yields in the olive. Amer. Soc. Hort. Sci. Proc. 56:217-228. Dec.1950. 81 So12
- 43123 HAUTEVILLE, A. L'incision annulaire, moyen de conduire la végétation et de préparer l'olivier à la taille. Colon Franç. de Tunisie (ser.7)60(2146):1,3. May 27,1950. 24 C712
- 43124 HERRERA VASCONES, C. Breves notas sobre nuestra explotación bananera. Ecuador. Segunda Zona. Cóm. de Agr. B. 4(19):3-7. Oct./Dec.1950. 9.5 Ec95B
- 43125 HOW TO bud a mango tree. Fla. Grower 59(4): 27,29. Apr.1951. 80 F6622
- 43126 HUELL, A. C. La palmera datilífera. Pampa Argentina 24(278):24-25. Jan./Feb.1951. 9 P19
- 43127 HUME, E. P. Growing avocados in Puerto Rico. P. R. Fed. Expt. Sta. (Mayaguez) C. 33,51 p. Ref. Feb.1951. 1 Ex65
- 43128 LAWRENCE, F. P. Planting young citrus grove. 2. Fla. Grower 59(4):16,20. Apr.1951. 80 F6622
- 43129 MAURI, N. Pauvres agrumes. Fruits et Primeurs de l'Afrique du Nord 21:61-62. Feb.1951. 80 F9482
- 43130 MENON, H. B. Cultivo de las granadillas. Asoc. Gen. de Agr. B. 289:3. Feb.28,1951. 8 As52
- Passiflora.
- 43131 MORETTINI, A. For the increase of varieties of olives for the table. (In Italian.) Riv. della Ortofloro-frutticoltura. Ital. 35:1-18. Jan./Feb.1951. 86 R22
- English summary.
- 43132 MORETTINI, A. Olivicoltura. Colon Franç. de Tunisie (ser.7)60(2141):1-2. Apr.22,1950. 24 C712
- 43133 MOSTI, A. How to increase the productivity of our olive groves. (In Italian.) Spezia Agr. 6(3):2. Mar.1, 1951. 16 Sp3
- 43134 NATHANAEL, W. R. N. Rainfall and crop figures. Ceylon Coconut Q. 1(3):41. July/Sept.1950. 77.8 C33
- 43135 RENAUD, M. Les porte-greffes des agrumes. Colon Franç. de Tunisie (ser.7)60(2150):1,4. June 24, 1950. 24 C712
- 43136 RYNDIN, N. V. Wintering of citrus crops under the shelter of park plantings in Crimea. (In Russian.) Agrobiologiya 1950(6):138-141. Nov./Dec. 1950. 20 Ag822
- 43137 SEELIG, R. A. Fruit & vegetable history. 13. Oranges. Fruit & Veg. Rev. 13:14-15,26. Apr.1951. 80 C1224
- 43138 WAIBEL, C. Preparations for more and better Texas citrus. Tex. Farming & Citricult. 27(9):6. Mar. 1951. 80 T31
- 43139 WILLIAMS, A. Legumes for oranges? A cheap method of fertilizing oranges with leguminous trees [Albizia]. South. Farmer 112(4):8. Apr.1951. 6 So833
- Fruits--Deciduous**
- 43140 BELL, H. K. Replanting peach trees. Nur. New-Yorker 101:170-171. Mar.3,1951. 6 R88
- 43141 BLAIR, D. S., and DAVIS, M. B. Apple growing in eastern Canada. Canada. Dept. Agr. P. 847,53 p. Dec.1950. 7 C16Pu
- 43142 BLAIR, D. S. Plum culture. Canada. Dept. Agr. P. 849,14 p. Dec.1950. 7 C16Pu
- 43143 BRANZANTI, E. C. Considerations on pruning with particular reference to Pomaceae. (In Italian.) Riv. di Frutticoltura. 13:38-44. Jan.1951. 80 R52
- 43144 BUDAGOVSKI, V. I. Dwarf apple trees with their own roots in Dagestan. (In Russian.) Sad i Ogorod 1950(12):7-9. Dec.1950. 80 Sa13
- 43145 BUSH, R. Grafted bark edges must make good contact. Grower [London] 35:608-609. Mar.24,1951. 286.83 M34
- Apples.
- 43146 BYNOV, F. A. Local apple varieties. (In Russian.) Sad i Ogorod 1950(12):26-27. Dec.1950. 80 Sa13



- 43147 CANDIOLI, P. La peschicoltura veronese; nei suoi aspetti tecnici, economici, commerciali e industriali [Verona peach culture; its technical, economic, commercial and industrial aspects]. Veron, Bettinelli, 1950. 94 p. 93.35 C16
- 43148 DANIELSSON, B. Embryo cultures of stone fruits. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950: 200-206. 86 Sv2  
English summary.  
Cherries.
- 43149 EGOROV, V. I. Greater attention to the culture of dwarf fruit trees [apples, pears and plums]. (In Russian.) Sad i Ogorod 1950(12):3-5. Dec.1950. 80 Sa13
- 43150 EVREINOFF, V. Notes sur l'origine de la pêche Madame Kira Evreinoff. Riv. di Frutticoltura. 13:45. Jan.1951. 80 R52
- 43151 FETISOV, G. G. Plodovodstvo i jagodovodstvo [Fruit and berry culture]. Ed. 8. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 391 p. (Uchebniki i Uchebnye Posobia Dlia Podgotovki Sel'skokhoziaistvennykh Kadrov Massovoi Kvalifikatsii) 93.28 F43P
- 43152 GOLUBKOVA, V. F. Plums [Prunus cerasifera divaricata] for the shelterbelt plantings of the South-East [U.S.S.R.]. (In Russian.) Priroda 39(10):60-61. Ref. Oct.1950. 410 P933
- 43153 HENSCHKE, M. Die Veränderungen im obstbaumbestand in Hessen. Gartenjahr 6:4. Jan.1951. 80 G1932
- 43154 HIBBARD, A. D., and MURNEEK, A. E. Thinning peaches with hormone sprays. Amer. Soc. Hort. Sci. Proc. 56:65-69. Dec.1950. 81 So12
- 43155 JOHANSSON, E. Some valuable fruit varieties are being tested at the State Horticultural Experiment Institute. Apples and pears. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:221-236. Ref. 86 Sv2
- 43156 KING, F. A. The apple in folk-lore. Fruit, Flower & Veg. Trades' J. 98(26):16. Dec.23,1950. 80 F946
- 43157 KORDON, R. I. A. Caucasian dwarf apple tree. (In Russian.) Sad i Ogorod 1950(12):10. Dec.1950. 80 Sa13
- 43158 LAVEZZINI, A. Behavior of certain varieties of pears grafted on pears and on quince. (In Italian.) Avvenire Agr. 59:39-40. Feb.1951. 16 Av9
- 43159 LOUVAIN, P. La culture du cerisier en Provence. Réveil Agr. 60:53-54. Feb.15,1951. 14 R322
- 43160 MARGOLIN, A. F. Dwarf apple trees in Moscow suburbs. (In Russian.) Sad i Ogorod 1950(12):5-7. Dec.1950. 80 Sa13
- 43161 MASLOV, V. I. A., and PETROSĬAN, A. A. Propagation of cherries with root suckers. (In Russian.) Agrobiologičeskaia 1950(6):141-144. Nov./Dec.1950. 20 Ag822
- 43162 NEPOROZHNYI, G. D. New varieties of pears for Voronezh Region. (In Russian.) Sad i Ogorod 1950(12):28-30. Dec.1950. 80 Sa13
- 43163 NILSSON, F. Technical problems in fruit culture. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:302-312. 86 Sv2
- 43164 OLDEN, E. J. Study trip to England. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:131-154. 86 Sv2  
Fruit culture.
- 43165 PÄHLMAN, A. Contributions to our fruit assortments by our estates. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:155-171. 86 Sv2  
Apple varieties.
- 43166 PALLESEN, L. Moving of 15-year-old Cox Oranges. (In Danish.) Gart.-Tid. 87:82-84. Feb.14,1951. 80 G192
- 43167 PROEBSTING, E. L. A case history of a "peach replant" situation. Amer. Soc. Hort. Sci. Proc. 56:46-48. Dec.1950. 81 So12
- 43168 RICCI, A. The Charles Ingouf peach. (In Italian.) Riv. di Frutticoltura. 13:46-49. Jan.1951. 80 R52
- 43169 RIGOTTI, R. New varieties of peaches. (In Italian.) Almanacco Agr. (1951)62:163-165. 1950. 16 AL6
- 43170 RODNEY, D. R., and BLEDSOE, R. W. The survival of apple seedlings in 1948 as affected by grade, planting distance and treatments applied to tops and roots at planting time. Amer. Soc. Hort. Sci. Proc. 56: 210-212. Dec.1950. 81 So12
- 43171 SANNIKOV, V. S. Effect of orchard protecting plantings on growth and productivity of plums. (In Russian.) Sad i Ogorod 1950(12):18-21. Dec.1950. 80 Sa13
- 43172 SMIRNOV, V. F. On names of types of dwarf apples. (In Russian.) Sad i Ogorod 1950(12):10-12. Dec. 1950. 80 Sa13
- 43173 SOUTHWICK, F. W., and WEEKS, W. D. Some attempts to thin apples with naphthaleneacetic acid type materials after calyx. Amer. Soc. Hort. Sci. Proc. 56: 70-75. Dec.1950. 81 So12
- 43174 STEPANENKO, D. P. Hybrid of Japanese and Myrobalan plums. (In Russian.) Sad i Ogorod 1950(12): 65-66. Dec.1950. 80 Sa13
- 43175 THIES, W. H. This Red Apple Club inspires fruit growers. East. States Coop. 27(3):5-6. Mar.1951. 280.28 Ea7
- 43176 WILEY, L. What? No cherries? You can be sure of a fruit crop even if you have only one tree. Flower Grower 38(4):45,77-78. Apr.1951. 80 M72  
Pollination.
- 43177 YERUHAM. Apple plantations at Kfar-Bloom. (In Hebrew.) Hassadeh 31:167-169. Jan.1951. 26 H27

## Fruits--Small

- 43178 ALMEIDA, J. L. F. DE. Vegetative propagation of grapes. (In Portuguese.) Frutas da Madeira 10:92-93. Feb.1951. 286.83 F9422
- 43179 BAKER, C. E. Raspberries for the garden. Nur. New-Yorker 101:243,255. Apr.7,1951. 6 R88
- 43180 BAQUE, Z. L'Armagnac. Terre d'Occ 33:74-76. (Cont.) Mar.1951. 14 Ar5  
Grape culture.
- 43181 BASTELEUS, R. Grape culture in cold greenhouses. (In Flemish.) Cult. en Handel 17:101-102. Feb. 1951. 80 C892
- 43182 BERNARD, P. Ce qu'il faut savoir de la viticulture. Unité Paysanne 6(277):3. (Cont.) Mar.17,1951. 14 Un3
- 43183 BOLOGNA, L. The Ciliegliolo in Tuscany. (In Italian.) Agr. Tosc. 6:68-69. Feb.1951. 16 Ag827  
Grapes.
- 43184 BREIDBACH. Zur pflege der reb-muttergärten. Weinbau 6:50. Feb.4,1951. 390.8 W432
- 43185 BRODSKIĬ, B. White Russian SSR. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.212-216. Moskva, Moskovskii Rabochii, 1950. 95.4 R82  
Grape culture.
- 43186 BRUNNER, E. Über veredlung bewurzelter unterlagsreben. Weinbau 6:49. Feb.4,1951. 390.8 W432
- 43187 BUSH, R. New varieties of soft fruits. Grower [London] 35:661,663. Mar.31,1951. 286.83 M34
- 43188 CALZECCHI-ONESTI, A. The culture of strawberries. V. (In Italian.) Glor. di Agr. 61:75. Mar. 11,1951. 16 ItG
- 43189 CASINI, U. Resurrection of a vineyard. (In Italian.) Agr. Tosc. 6:60-63. Feb.1951. 16 Ag827
- 43190 CHRIST, E. G. Suggestions—strawberry planting 1951. N. J. State Hort. Soc. Hort. News 32:2352-2353,2358. Feb.1951. 81 N46
- 43191 CLARKE, J. H. Thinking about growing blueberries. Wash. Farmer 76:236,249. Apr.5,1951. 6 R151
- 43192 CORNU, C. Du nouveau dans le vignoble: greffage des racinés et paraffinage. Rev. Agr. de l'Afrique du Nord 49:10-11. Jan.5,1951. 80 R326
- 43193 CORNU, C. Une simplification sensationnelle dans la production des plants de vignes: greffage des plants racinés et paraffinage. Réveil Agr. 60:49-50. Feb.15,1951. 14 R322
- 43194 DALMASSO, G. Economic problem of vineyard reconstruction in Italy. (In Italian.) Cong. Agr. Naz. Atti 1948:537-554. 1950. 27 C7625
- 43195 DAVITAIA, F. Climatic conditions for the advancement of grape culture in the North and East. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.26-43. Moskva, Moskovskii Rabochii, 1950. 95.4 R82
- 43196 DELHAYE, R. Search for new grape varieties through cross pollination. (In Flemish.) Cult. en Handel 17:114-116. Feb.1951. 80 C892
- 43197 EATON, E. L. Propagating highbush blueberries by mounding. Sci. Agr. 31:131-132. Mar.1951. 7 Sc12
- 43198 EVDOKIMOV, V. I. A. Grapes culture in Moscow Region. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.136-154. Moskva, Moskovskii Rabochii, 1950. 95.4 R82
- 43199 FERRAZ E SILVA, M. Grafts considered best at the present for this grape-producing region and cultural practices most advised. (In Portuguese.) Frutas da Madeira 10:81-82,85. Jan.1951. 286.83 F9422
- 43200 FLEMING, H. K. 1950 strawberry variety trials in Erie County, Pennsylvania. Pa. Agr. Expt. Sta. Prog. Rpt. 41.4 p. Feb.1951. 100 P381P
- 43201 FREGOLA, C. Present-day aspects of Tuscan viticulture. (In Italian.) Agr. Tosc. 6:53-59. (Cont.) Feb.1951. 16 Ag827



- 43202 GAVRILKEVICH, B. B. We shall speed up the time of first fruit bearing of grapes. (In Russian.) Sad i Ogorod 1950(12):38-39. Dec.1950. 80 Sa13  
Cultural practices mainly.
- 43203 GIRAUD, L. Les porte-greffes à base de Berlandieri. Inform. Marocaine 526:1,4;528:1,3. Feb.10-24, 1951. 281.8 In3  
Grapes.
- 43204 GORBUNOVA, E. Orlov Region. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.194-200. Moskva, Moskovskii Rabochii, 1950. 95.4 R82  
Grape culture.
- 43205 HIBBARD, A. D., and HEMPHILL, D. D. Success with strawberries. Mo. Agr. Expt. Sta. B. 542, 30 p. Nov.1950. 100 M693
- 43206 JOHANSEN, A. Can we grow cloudberries? (In Norwegian.) Norske Myrselsk. Meddel. 49:12-17. Feb.1951. 11 N813
- 43207 JOHANSSON, E. Indra-a new strawberry variety from Alnarp. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:237-240. 86 Sv2  
English summary.
- 43208 JONES, C. H. A good late raspberry is needed. Grower [London] 35:438-439. Mar.3, 1951. 286.83 M34  
Culture.
- 43209 KARTAVCHENKO, P. Grape culture in Moscow Region and problems of scientific-research work. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.117-135. Moskva, Moskovskii Rabochii, 1950. 95.4 R82
- 43210 KUZ'MIN, A. I. V. Michurin on advancing grape culture into the North [of U.S.S.R.]. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.7-25. Moskva, Moskovskii Rabochii, 1950. 95.4 R82
- 43211 LEUTIN, P., and UL'IANISHCHEV, M. Voronezh Region. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.181-193. Moskva, Moskovskii Rabochii, 1950. 95.4 R82  
Grape culture.
- 43212 LISTOV, A. A. Grape culture in Latvian SSR. (In Russian.) Sad i Ogorod 1950(12):40-41. Dec.1950. 80 Sa13
- 43213 LOOMIS, N. H. Use of Champanel and Dog Ridge grapes in breeding. Amer. Soc. Hort. Sci. Proc. 56:140-144. Ref. Dec.1950. 81 So12
- 43214 MEDVEDEVA, K. A. Achievements of Michurinites in grape culture. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.217-243. Moskva, Moskovskii Rabochii, 1950. 95.4 R82
- 43215 MELHAN, A. Le vignoble, pilote d'hybrides de la D. S. A. du Gers. Terre d'Oc 33:76-80. Mar.1951. 14 Ar5
- 43216 MERKULOVA, P. Kuibyshev Region. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.167-180. Moskva, Moskovskii Rabochii, 1950. 95.4 R82  
Grape variety testing at Kuibyshev Fruit and Berry Experiment Station.
- 43217 MOLCHANOV, I., and VASIL'eva, L. Saratov Region. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.155-166. Moskva, Moskovskii Rabochii, 1950. 95.4 R82  
Grape culture.
- 43218 NEGRUL', A. M. Grape breeding. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.102-116. Moskva, Moskovskii Rabochii, 1950. 95.4 R82
- 43219 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. The cultivation of black currants. North. Ireland. Min. Agr. L. 109, 6 p. Jan.1951. 10 N81
- 43220 PEYER, E. Die häufigsten fehler, die bei neuanlagen mit veredelten reben gemacht werden. Schweiz. Z. f. Obst- u. Weinbau 60:99-102. Mar.10, 1951. 80 Sch9
- 43221 PEYRONNET, R. Les vendanges 1950 dans l'Algérois. Rev. Agr. de l'Afrique du Nord 49:25-26. Jan.12, 1951. 80 R326
- 43222 PIROVANO, A. Genetics in viticulture. (In Italian.) Cong. Agr. Naz. Atti 1948:597-607. 1950. 27 C7625
- 43223 POTAPENKO, I. A. Principles of grape culture. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.61-101. Moskva, Moskovskii Rabochii, 1950. 95.4 R82
- 43224 RAMMING, A. Primorski Kral. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.201-204. Moskva, Moskovskii Rabochii, 1950. 95.4 R82  
Grape varieties.
- 43225 REICH, C. The "Merlot" in Trentine viticulture. (In Italian.) Almanacco Agr. (1951)62:157-161. 1950. 16 AL6
- 43226 RIGOTTI, R. A new variety of grape for testing. (In Italian.) Almanacco Agr. (1951)62:188-190. 1950. 16 AL6
- 43227 ROACH, F. A. Raspberry varieties. Gard. Chron. 129:60-61. Feb.24, 1951. 80 G162
- 43228 ROBERTS, F. C. Grow your own strawberries. Horticulture 29:91, 110. Mar.1951. 80 H787
- 43229 RUBIN, S. M., ed. Vinograd v severnykh raionakh SSSR [Grapes in the northern districts of U.S.S.R.]. Moskva, Moskovskii Rabochii, 1950. 242 p. 95.4 R82
- 43230 SCHWARTZE, C. D. The "Northwest", a promising strawberry. Wash. Farmer 76:236, 253. Apr.5, 1951. 6 R151
- 43231 SCOTT, D. H., and INK, D. P. Grape seed germination experiments. Amer. Soc. Hort. Sci. Proc. 56:134-139. Dec.1950. 81 So12
- 43232 SLATE, G. L. Essentials in strawberry growing. Rur. New-Yorker 101:168-169. Mar.3, 1951. 6 R88
- 43233 SNYDER, E., and HARMON, F. N. Growth comparisons of vinifera grape varieties after growing 44 years on rupestris St. George rootstock. Amer. Soc. Hort. Sci. Proc. 56:169-172. Dec.1950. 81 So12
- 43234 STATUTI, M. The viticultural problem of Modena. (In Italian.) Campagnolo 5(12):1-2. Dec.1950. 16 C15
- 43235 STREL'AEVA, M. Bashkir ASSR. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh raionakh SSSR, p.205-211. Moskva, Moskovskii Rabochii, 1950. 95.4 R82  
Grape breeding.
- 43236 VADE, S. Quel emplacement pour la vigne familiale? Vie à la Campagne 40:61-62. Feb.1951. 80 V67
- 43237 VASIL'EV, M. A. New great constructions of Communism. (In Russian.) Vinodel. i Vinograd. SSSR. 10(10):12-14. Oct.1950. 95.8 V77  
Hydroelectric stations and irrigation canals and their effect on grape culture.
- 43238 VOLUZNEV, A. G. Novinka strawberry hybrid of White Russia. (In Russian.) Sad i Ogorod 1950(12):66-67. Dec.1950. 80 Sa13
- 43239 WHITEHEAD, E. L. Small fruits for the home garden. Okla. Agr. Col. Ext. C. 432, 8 p. n. d. 275.29 Ok41C
- 43240 WILLIAMS, C. F. Influence of parentage in species hybridization of raspberries. Amer. Soc. Hort. Sci. Proc. 56:149-156. Dec.1950. 81 So12
- 43241 WOODARD, O., and BRIGHTWELL, W. T. Planting and care of muscadine grapes. Ga. Coastal Plain Expt. Sta. Mimeog. Paper 75, 3 p. Mar.1951. 100 G292M

## Nuts

- 43242 ALBEN, A. O., and SITTON, B. G. Fourteen years' results of thinning the stand of trees in a pecan orchard on alluvial soil. Amer. Soc. Hort. Sci. Proc. 56:98-102. Dec.1950. 81 So12
- 43243 AMELINCKX, F. The family Corylus L. (In Flemish.) Cult. en Handel 17:42-44. Jan.1951. 80 C892
- 43244 BERTHAULT, P. Le greffage du Pistachier. Rev. Agr. de l'Afrique du Nord 49:44. Jan.19, 1951. 80 R326
- 43245 BURNAM, W. Records of pecan yields. Tex. Pecan Growers Assoc. Proc. 29:43-44. 1950. 94.69 T31
- 43246 CARDWELL, W. W. Pecan varieties for south Texas. Tex. Pecan Growers Assoc. Proc. 29:53. 1950. 94.69 T31
- 43247 HANDER, N. H. Pecan varieties for central Texas and east Texas. Tex. Pecan Growers Assoc. Proc. 29:48-52. 1950. 94.69 T31
- 43248 HUTCHISON, J. E. Pecan schools as a means of training new growers. Tex. Pecan Growers Assoc. Proc. 29:31-33. 1950. 94.69 T31
- 43249 ROMBERG, L. D., and SMITH, C. L. Progress report on the breeding of new pecan varieties. Tex. Pecan Growers Assoc. Proc. 29:12-21. 1950. 94.69 T31
- 43250 ROSBOROUGH, J. F. Pecan tree planting month for Texas. Tex. Pecan Growers Assoc. Proc. 29:31. 1950. 94.69 T31
- 43251 SHARPE, R. H., and BLACKMON, G. H. A study of plot size and experimental design with pecan yield data. Amer. Soc. Hort. Sci. Proc. 56:236-241. Dec.1950. 81 So12



- 43252 SHELTON, D. Yields from native groves. Tex. Pecan Growers Assoc. Proc. 29:45. 1950. 94.69 T31
- 43253 SMITH, C. L. Reorganization of pecan research of the Bureau of Plant Industry, Soils, and Agricultural Engineering in the field. Tex. Pecan Growers Assoc. Proc. 29:9-10. 1950. 94.69 T31
- 43254 TEXAS PECAN GROWERS ASSOCIATION. Proceedings, twenty-ninth annual meeting, Tyler, Texas, July 11-12, 1950. n.p., 1950. 70 p. 94.69 T31
- 43255 WINKLER, A. Record yield of pecan trees. Tex. Pecan Growers Assoc. Proc. 29:43. 1950. 94.69 T31
- 43256 ZAJICEK, J. Should we topwork our pecan groves. Tex. Pecan Growers Assoc. Proc. 29:47-48. 1950. 94.69 T31

#### Shade Trees and Ornamental Plants

- 43257 ALLEN, R. C. Rose species for the garden. Plants & Gard. 7:45-48. Spring 1951. 450 P694
- 43258 ALLGEYER, W. Plant growing experiences. Plant Life 7:153-154. 1951. 450 P695
- 43259 ASAYAMA, E. Soka engei [Growing flowers]. Tokyo, Asakura Shoten, 1950. 351 p. 96 As1
- 43260 AUGE, P. Pour orner son jardin. Almanach Agr. Tunisie 1951:285-290. 24 AL6
- Ornamental plants.
- 43261 AUL, H. B. How to build garden structures, grills, terraces, shelters, arbors, fences, gates, etc. New York, Sheridan House, 1950. 384 p. 97.5 Au5
- 43262 BAIR, R. A. Does your grass like Florida? Green Thumb [St. Petersburg] 1(3):16-18. Jan. 1951. 80 G822
- Grasses for lawns.
- 43263 BAKER, J. O. The Dahlia and the Gladiolus. London, Gifford, 1950. 103 p. 96 B17D
- 43264 BALLS, E. K. California annuals for rock gardens. Amer. Rock Gard. Soc. B. 9:7-16. Jan./Feb. 1951. 81 Am342
- 43265 BARKER, F. Oxalis enneaphylla. Gard. Chron. 129:61. Feb. 24, 1951. 80 G162
- 43266 BARR, C. A. Cushion Astragali. Amer. Rock Gard. Soc. B. 9:2-4. Jan./Feb. 1951. 81 Am342
- 43267 BARTRUM, D. Planting an exposed garden. Estate Mag. 51:22. Jan. 1951. 10 Es8
- Ornamental plants.
- 43268 BEDBROOK, C. Winter-flowering Irises. My Gard. 42:163-166. Feb. 1951. 80 M995
- 43269 BERZAGHI, M. N. Landscape gardening. (In Portuguese.) Rev. dos Mercados 1(2):27-29. Oct. 1950. 286.8 R328
- 43270 BLACKBURN, B. Kobus Magnolia. Flower Grower 38(4):8-9. Apr. 1951. 80 M72
- 43271 BOYER, J. Les cactacées dans leur pays. Les géants du genre Pachycereus. Cactus [Paris] 26:101-106. Dec. 15, 1950. 450 C114
- 43272 BROWNELL, MRS. W. D. Roses are getting better. Gard. Club Amer. B. 39(2):38-40. Mar. 1951. 90.32 G16
- Rose breeding.
- 43273 BUCK, G. J. Report—understock breeding program. Amer. Rose Mag. 9(5):34-35. Mar./Apr. 1951. 80 Am327A
- Rose understock breeding program at Iowa State College.
- 43274 BUCK, G. J., and VOLZ, E. C. Root-growth in spring and fall-planted roses. Amer. Soc. Hort. Sci. Proc. 56:471-474. Ref. Dec. 1950. 81 So12
- 43275 BUSHEY, D. J. The planting and care of shrubs and trees. N. Y. Agr. Col. Cornell Ext. B. 185, rev., 32 p. Mar. 1951. 275.29 N48E
- 43276 BUTTERFIELD, H. M. Hints on growing Fuchsias. Fuchsia Fan 11(2):6-7. Feb. 1951. 96.532 F952
- 43277 BUTTS, MRS. P. Two New Zealand gardeners on holiday. Gard. Club Amer. B. 39(2):20-23. Mar. 1951. 90.32 G16
- 43278 CANHAM, A. E. Artificial light may save bulb forcing heat. Grower [London] 35:719. Apr. 7, 1951. 286.83 M34
- 43279 CARLETON, R. M. Bedding plants; propagation of varieties suitable for the Midwest States. Florists' Rev. 108(2783):17-18, 53-57. Mar. 29, 1951. 80 W41
- 43280 CARNEVALE, J. A. Almacigas de coníferas. Pampa Argentina 24(278):21. Jan./Feb. 1951. 9 P19
- 43281 CARRA, P., and GUETI, M. Les plantes de bordure. Rev. Hort. de l'Algérie 54:358-373. (Cont.) Dec. 1950. 87 R32
- 43282 CHADWICK, L. C. The best in Taxus. Amer. Nurseryman 93(6):13-14, 69-82. Mar. 15, 1951. 80 Am371
- 43283 CHAPLIN, P. Asparagus fern needs good drainage. Grower [London] 35:561, 563. Mar. 17, 1951. 286.83 M34
- Gypsophila.
- 43284 CHERVENKA, F. Objectives of the Northwest Bulb Growers Association. Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:6-7. 1950. 81 N817
- 43285 CLARK, N. M. The craziest thing that grows. Sat. Evening Post 223(41):42-43, 162, 165-167. Apr. 7, 1951. 110 Sa8
- Cactaceae.
- 43286 CLARK, R. B. Viburnums. Plants & Gard. 7:12-17. Spring 1951. 450 P694
- 43287 CLOUD, K. M. P. Make your garden livable. Flower Grower 38(4):32-33, 61-62. Apr. 1951. 80 M72
- 43288 COBB, H. L. A busy man grows roses. Horticulture 29:87, 90. Mar. 1951. 80 H787
- 43289 COKER, MRS. J. L. Out in the lonely woods. Gard. Club Amer. B. 39(2):62, 63. Mar. 1951. 90.32 G16
- Wildflowers.
- 43290 COMBER, J. Vitex agnus castus. My Gard. 42:148. Feb. 1951. 80 M995
- 43291 COOLEY, J. S. Daylily notes, 1949 & 1950. Plant Life 7:132-134. 1951. 450 P695
- 43292 COOLEY, J. S. Narcissus notes 1950. Plant Life 7:138-139. 1951. 450 P695
- 43293 COUNT, R. D. Garden rainbows. Fuchsia Fan 11(2):8-9. Feb. 1951. 96.532 F952
- Gazania pavonia.
- 43294 CRAWFORD, C. G. Germinating hardy Cyclamen. Amer. Rock Gard. Soc. B. 9:16-17. Jan./Feb. 1951. 81 Am342
- 43295 CREECH, J. L. The flowering quinces [Chaenomeles]. Plants & Gard. 7:30-32. Spring 1951. 450 P694
- 43296 CULPEPPER, C. W. x Crinum clone Cecil Houdyshel in Virginia. Plant Life 7:131-132. 1951. 450 P695
- 43297 DANVIG, R. Chrysanthemum the year round in the U. S. A. (In Danish.) Gart.-Tid. 67:36-39. Jan. 24, 1951. 80 G192
- 43298 DAVIS, J. C. P. M. A sweet pea grower takes stock. Gard. Illus. 68:101. Apr. 1951. 80 G169
- 43299 DEANE, V. L. Growing Miltonias in a warm climate. Amer. Orchid Soc. B. 20:140-141. Mar. 1951. 80 Am329
- 43300 DENTON, E. M. A garden in Kenya. My Gard. 42:173-177. Feb. 1951. 80 M995
- 43301 DONELSON, L., and VINE, V. Peonies—how they've changed! Farm J. 75(5):56-57, 59. May 1951. 6 F2212
- 43302 DONOVAN, J. M., JR. Why not grow your own fence? Is the multiflora rose a safe and economical fence for horses? A horseman says yes, but a nurseryman is doubtful. Blood-Horse 61:700-701, 709. Apr. 7, 1951. 42.8 T392
- 43303 DUTTON, R. The English garden. Ed. 2, rev. London, Batsford, 1950. 122 p. 98 D95
- 43304 EADE, G. W. A proposed certification program for Narcissus. Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:27-28. 1950. 81 N817
- 43305 ELLIOTT, D. The strange Banksias. Gard. Illus. 68:98-99. Apr. 1951. 80 G169
- 43306 EMSWELLER, S. L. Recent developments in lily breeding techniques. Amer. Soc. Hort. Sci. Proc. 56:498-508. Ref. Dec. 1950. 81 So12
- Also in Sci. Mon. 72:207-216. Ref. Apr. 1951. 470 Sci23
- 43307 ESTERLY, D. B. McCaskill's new Camellias registered. Camellia Rev. 12(5):5. Feb. 1951. 97.31 So82
- 43308 FAIRLEY, E. H. For carpeting the ground. Org. Gard. 18(4):40-41. Apr. 1951. 56.8 Or3
- 43309 FAUCILLON, X. Pour obtenir des giroflées à fleurs doubles. Rustica 24:132. Feb. 11, 1951. 14 R92
- 43310 FERGUSON, M. H., and GRAU, F. V. U-3 Bermudagrass. U. S. G. A. Journal 4:31. Apr. 1951. 60.18 Un32
- 43311 FOGG, H. G. W. Some easily grown lilies. Allot. & Home Gard. 88:4-5, 7. Feb. 1951. 80 N217
- 43312 FOSTER, M. B. Collecting Amaryllids in Latin America. Plant Life 7:12-18. 1951. 450 P695
- 43313 FRASER, H. Ways of minimising drought effects. Gard. Illus. 68:116. Apr. 1951. 80 G169
- 43314 GAARDER, P. Propagation of Dahlia. (In Norwegian.) Gartneryrket 41:127-129. Feb. 24, 1951. 80 G1938



- 43315 GAARDER, P. Review of Dahlia varieties. (In Norwegian.) Gartneryrket 41:130-134. Feb.24,1951. 80 G1938
- 43316 GATLEY, P. February saffron. My Gard. 42: 186-188. Feb.1951. 80 M995
- 43317 GÖTWALS, M. C. Rose garden design. Amer. Rose Mag. 9(5):7-9. Mar./Apr.1951. 80 Am327A
- 43318 GOULD, C. J. Iris curing—results of the 1949-50 trials. Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:28-30. 1950. 81 N817
- 43319 GREEN, G. G. Stemless Mesembryanthemums Cactus & Succulent J. Gt. Brit. 13:10-15. (Cont.) Jan. 1951. 450 C113
- 43320 GRIGSON, G. Flowers of the meadow. Harmondsworth, Middlesex, Eng., Penguin Books, 1950. 33 p. (The King Penguin Books. 53) 458 G87F
- 43321 GRÖTHEIM, E. Marking, harvesting, trimming and storage of Dahlia. (In Norwegian.) Gartneryrket 41:138,142-143. Feb.24,1951. 80 G1938
- 43322 GUEYDON, L. Une fleur de culture facile et rémunératrice; les glaieuls. Révell Agr. 60:65. Mar.1, 1951. 14 R322
- 43323 HALLOWAY, H. R. A true Iris garden. Gard. Club Amer. B. 39(2):29-32. Mar.1951. 90.32 G16
- 43324 HAMBLIN, S. F. Tiny Dianthus. Amer. Rock Gard. Soc. B. 9:1-2. Jan./Feb.1951. 81 Am342
- 43325 HAYES, L. F. Cymbidiums. Austral. Orchid Rev. 15:99-105. Dec.1950. 80 Au73
- 43326 HAYWARD, W. The Gloriosa lilies. Plant Life 7:145-153. 1951. 450 P695
- 43327 HAYWARD, W. Louisiana's St. Joseph lily—*x* Amaryllis johnsonii. Plant Life 7:38-40. 1951. 450 P695
- 43328 HENDERSON, E. P. A report on hardness of certain Camellia varieties. Camellia Rev. 12(5):13,16. Feb.1951. 97.31 So82
- 43329 HENDRICKX, A. "A.A.R.S." et "U.R.S."; pour de meilleures nouvelles roses! Cour. Hort. 13:22-25. Jan.1951. 80 C834
- All-America Rose Selection and Universal Rose Selection.
- 43330 HENRY, M. G. *x* Amaryllis gladwynensis. Plant Life 7:118-121. 1951. 450 P695
- 43331 HERSEY, J. Orchids in our living room. Amer. Orchid Soc. B. 20:124-127. Mar.1951. 80 Am329
- 43332 HIGDON, M. F. Culture of Camellias and Azaleas. South. Planter 112(3):57-58. Mar.1951. 6 So89
- 43333 HIGGINS, V., ed. Some good garden plants; containing descriptions of the plants which have received the Award of Garden Merit, 1922-1949. New ed., rev., with additional descriptions by P. M. Synge. London, Roy. Hort. Soc., 1950. 91 p. 97.4 H53
- 43334 HILDRETH, A. C. Shrubs for dry soils. Plants & Gard. 7:40-44. Spring 1951. 450 P694
- 43335 HOFF, S. Current garden problems. (In Norwegian.) Gartneryrket 40:864-865. Dec.20,1950. 80 G1938
- 43336 HOGG, R. B. Odontoglossums in Sydney. Austral. Orchid Rev. 15:114-115. Dec.1950. 80 Au73
- 43337 HOYT, G. M. The Miltonia, a beautiful orchid. Amer. Orchid Soc. B. 20:128-131. Mar.1951. 80 Am329
- 43338 HOZAKA, H. Kakin engel [Flowering plant horticulture]. Tokyo, Chikyu Shuppan, 1950. 435 p. 96 H85
- 43339 HUGHES, T. St. Petersburg orchid farm born of Kansas hobby. Fla. Grower 59(4):9,13. Apr.1951. 80 F6622
- 43340 HUME, H. H. Camellias. Plants & Gard. 7: 33-38. Spring 1951. 450 P694
- 43341 INGWERSEN, W. Campanulas and Dianthi for the rock garden. My Gard. 42:131-144. Feb.1951. 80 M995
- 43342 JOHNSON, E. W. Ornamental shrubs for the southern Great Plains. U. S. D. A. Farmers' B. 2025, 61 p., Feb.1951. 1 Ag84F
- 43343 KROMDIJK, G. Canna indica; a superb ornamental. (In Flemish.) Cult. en Handel 17:106-107. Feb. 1951. 80 C892
- 43344 KROMDIJK, G. Culture of Bouvardia. (In Flemish.) Cult. en Handel 17:27-28. Jan.1951. 80 C892
- 43345 KROMDIJK, G. Flowers and plants for small gardens. (In Flemish.) Cult. en Handel 17:103-105. Feb. 1951. 80 C892
- 43346 KYLE, F. Raise your own Chrysanthemum plants. Allot. & Home Gard. 88:14-15. Feb.1951. 80 N217
- 43347 LABROUSSE, M. Les Dahlias; histoire, description, culture, hybridation. Paris, Baillière, 1950. 110 p. (Bibliothèque d'Horticulture Pratique) 96.524 L11
- 43348 LARSON, MRS. H. A white garden. Gard. Club Amer. B. 39(2):67-69. Mar.1951. 90.32 G16
- 43349 LENINGTON, G. E. Evaluation of daylilies in Missouri. Plant Life 7:140-141. 1951. 450 P695
- 43350 LESLIE, W. R. Newcomers to northern ornamentals. Amer. Nurseryman 93:11-12,41. Apr.1,1951. 80 Am371
- 43351 LITTLEFIELD, J. J. Cutting your blossoms. Camellia Rev. 12(5):9. Feb.1951. 97.31 So82
- 43352 LODER, SIR G. The garden at Leonardslee. Gard. illus. 68:105-107. Apr.1951. 80 G169
- 43353 LOOMIS, H. F. Epidendrum nemorale. Amer. Orchid Soc. B. 20:139. Mar.1951. 80 Am329
- 43354 LUNDH, A. Dahlia culture. (In Norwegian.) Gartneryrket 41:129-130. Feb.24,1951. 80 G1938
- 43355 MCCULLY, A. For true blue grow gentians. Flower Grower 38(4):12-15. Apr.1951. 80 M72
- 43356 MANLEY, T. R. Valleevue Amaryllis trials. Plant Life 7:71-75. 1951. 450 P695
- 43357 MATTHIESSEN, M. M. The International Rose Test Garden at Portland, Oregon. Gard. Club Amer. B. 39(2):43-44. Mar.1951. 90.32 G16
- 43358 MAXWELL, S. Their gardens spread to the highways; maybe your community club could help bring about widespread roadside beautification too. Country Gent. 121(4):149,156. Apr.1951. 6 C833
- 43359 MITSCH, G. E. Comments on the new R. H. S. [Royal Horticultural Society] Narcissus Classification. Plant Life 7:65-67. 1951. 450 P695
- 43360 MITSCH, G. E. The 1950 daffodil season. Plant Life 7:134-138. 1951. 450 P695
- 43361 NEARING, G. G. The smaller Rhododendrons; do you know there are some only a few inches high which rival the giants in beauty? Flower Grower 38(4):37,74-76. Apr.1951. 80 M72
- 43362 NORTHERN, R. T. Light, temperature and humidity; what they mean to your plants. Amer. Orchid Soc. B. 20:132-136. Mar.1951. 80 Am329
- 43363 NORTHWEST BULB GROWERS ASSOCIATION. Proceedings of the [3rd] bulb growers short course. Sumner, Wash., 1950. 48 p. 81 N817
- 43364 NORTON, J. B. S., and BALLARD, W. R. Registration of new Amaryllid clones. Plant Life 7:76-78. 1951. 450 P695
- 43365 NYHOLM, I. Germination experiments with hawthorn [Crataegus], myrobalan plum [Prunus cerasifera] and Swedish mountainash [Sorbus intermedia]. (In Danish.) Gart.-Tid. 67:79-81. Feb.14,1951. 80 G192
- 43366 OLIVER, MRS. P. Gardens of fragrance for the blind. Gard. Club Amer. B. 39(2):25-28. Mar.1951. 90.32 G16
- 43367 OLIVER, R. W. Annual flowers for Canadian gardens. Canada. Dept. Agr. P. 796, rev., 32 p. Nov.1950. 7 C16Pu
- 43368 OLIVER, R. W. Outdoor roses in Canada. Canada. Dept. Agr. P. 777, rev., 34 p. Nov.1950. 7 C16Pu
- 43369 100 FAVORITE Iris; the results of the 11th Symposium of the American Iris Society judges. Flower Grower 38(4):27-28. Apr.1951. 80 M72
- 43370 100 FAVORITE mums; the National Chrysanthemum Society Popularity Poll for 1950. Flower Grower 38(4):44. Apr.1951. 80 M72
- 43371 ORTLOFF, H. S., and RAYMORE, H. B. Color and design for every garden. New York, Barrows, 1951. 301 p. 97.2 Or8C
- 43372 ORTON, E. C. The daffodil festival—what it means to the growers. Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:43-44. 1950. 81 N817
- 43373 ØSTERGAARD, J. Platanus orientalis L. in Denmark. (In Danish.) Gart.-Tid. 67:153-155. Mar.28, 1951. 80 G192
- 43374 PANNEKOEK, G. J. Planting of ornamentals. (In Flemish.) Cult. en Handel 17:38-40. Jan.1951. 80 C892
- 43375 PANNEKOEK, G. J. Pruning of shrubs. (In Flemish.) Cult. en Handel 17:117-119,161-162. (Cont.) Feb.-Mar.1951. 80 C892
- 43376 PAUSCH, A. Starting annuals from seed. Horticulture 29:81. Mar.1951. 80 H787
- 43377 PEARCE, S. A. The ancestry of Streptocarpus. Gard. illus. 68:100. Apr.1951. 80 G169
- 43378 PEER, R. Camellia grafting. Gard. illus. 68: 102-103. Apr.1951. 80 G169
- 43379 PHILIPSON, W. R. Wild flowers. London, Black, 1950. 96 p. (Black's Young Nat. Ser.) 458 P53



- 43380 POLETIKO, O. M. Daylilies (*Hemerocallis* L.) and their ornamental importance. (In Russian.) Akad. Nauk SSSR. Bot. Inst. Trudy. Ser. 6. *Introd. Rast.* 1 Zelenoe Stroitel'stvo 1:218-267. 1950. Ref. 451 Ak15
- 43381 PORTER, H. F. The effect of storms on choosing better trees. *Shade Tree* 24:1-5. (To be cont.) Jan. 1951. 99.8 Sh1
- 43382 PRINCIPI, G. Calycanthus. (In Italian.) Riv. della Ortoflorofrutticoltura. Ital. 35:39-41. Jan./Feb. 1951. 86 R22
- 43383 PROCTER, MRS. R. Phlox—a few suggestions. Gard. Club Amer. B. 39(2):60-61. Mar. 1951. 90.32 G16
- 43384 PUDDLE, F. C. The care of house plants. My Gard. 42:149-152. Feb. 1951. 80 M995
- 43385 RALSTON, H. How we grow Geraniums. United Florists News 6(2):3. Feb. 1951. 80 Un33
- 43386 RANDALL, G. O., GARRISS, H. R., and SMITH, C. F. Successful rose culture. N. C. Agr. Col. Ext. C. 200, rev., 24 p. Jan. 1951. 275.29 N811
- 43387 ROBERSON, F. K. Table Mountain - 1950. Amer. Rock Gard. Soc. B. 9:4-7. Jan./Feb. 1951. 81 Am342
- Wildflowers.
- 43388 ROBERTS, A. N. Pre-storage defoliation of field grown roses with certain chemical sprays and dusts. Amer. Soc. Hort. Sci. Proc. 56:475-481. Dec. 1950. 81 So12
- 43389 RODALE, A. A. Winter bouquets. Org. Gard. 18(4):30-31. Apr. 1951. 56.8 Or3
- 43390 ROWLEY, G. D. The scientific approach to succulents. Cactus & Succulent J. Gt. Brit. 13:6-7. Jan. 1951. 450 C113
- 43391 SAAKOV, S. G. Experiment in utilizing the wild tulips [Tulipa] of Middle Asia in floriculture. (In Russian.) Akad. Nauk SSSR. Bot. Inst. Trudy. Ser. 6. *Introd. Rast.* 1 Zelenoe Stroitel'stvo 1:268-294. Ref. 1950. 451 Ak15
- 43392 SCHLÖSSER, H., and MAATSCH, R. Die blumenzwiebeltreibe sowie die frühkultur von blumenzwiebel- und knollengewächsen. Ed. 2, rev. Berlin, Parey, 1950. 85 p. (Gärtnerische Berufspraxis. Heft 10) 96.4 Sch3
- 43393 SCHMIDT, Chrysanthemenschau in Graz. Gartenbauwirtschaft [Wine] 1951:8. Jan. 10, 1951. 80 G1936
- 43394 SEKI, S. Kaki engel yosetsu [Horticulture of the flowering plant]. Tokyo, Fuminsha, 1950. 377 p. 96.05 Se4
- 43395 SEYLER, H. G. Daylilies in the landscape. Horticulture 29:86-87. Mar. 1951. 80 H787
- 43396 SHERMAN, B. B. Ladies of the garden. Gard. Club Amer. B. 39(2):36-37. Mar. 1951. 90.32 G16
- Fuchsia.
- 43397 SHIPCHINSKI, N. V. In regard to landscape gardening in the City of Balkhash. (In Russian.) Akad. Nauk SSSR. Bot. Inst. Trudy. Ser. 6. *Introd. Rast.* 1 Zelenoe Stroitel'stvo 1:170-211. Ref. 1950. 451 Ak15
- Experiments with trees and shrubs.
- 43398 SHURLY, E. Eastbourne succulents. Cactus & Succulent J. Gt. Brit. 13:8-9. Jan. 1951. 450 C113
- 43399 SLOTEREN, E. VAN. Through quality to quantity. (In Dutch.) Weekbl. v. Bloembollencult. 61:290-291. Mar. 9, 1951. 80 W412
- Bulbs.
- 43400 SOKOLOV, S. IA., ed. *Introduktsiya rastenii i zelenoe stroitel'stvo* [Plant introduction and landscape gardening]. Akad. Nauk SSSR. Bot. Inst. Trudy. Ser. 6. *Introd. Rast.* 1 Zelenoe Stroitel'stvo 1,303 p. 1950. 451 Ak15
- 43401 STEFFEK, E. F. Respect the mountain laurel. Nat. Mag. 44:124. Mar. 1951. 409.6 N214
- Kalmia latifolia*.
- 43402 STENERSEN, I. Plant material for parks and gardens. (In Norwegian.) Gartneryrket 41:77,80. Feb. 3, 1951. 80 G1938
- 43403 STEVENS, H. N. The pruning question. Amer. Rose Mag. 9(5):4-6. Mar./Apr. 1951. 80 Am327A
- Roses.
- 43404 STEVENSON, V. Arranging daisies. Gard. Illus. 68:103. Apr. 1951. 80 G169
- Chrysanthemum*.
- 43405 STEVENSON, V. W. Good arrangement makes flower bunching easier. Grower [London] 35:658-659,661. Mar. 31, 1951. 286.83 M34
- 43406 STIRLING, W. F. Peonies as cut flowers. Grower [London] 35:494. Mar. 10, 1951. 286.83 M34
- 43407 STIVER, C. E. The selective process of pruning. Amer. Rose Mag. 9(5):19-20. Mar./Apr. 1951. 80 Am327A
- Pruning.
- 43408 STOUTEMYER, V. T. Flowering shrubs in California gardens. Plants & Gard. 7:55-58. Spring 1951. 450 P694
- 43409 STROEBE, H. Multiflora rose in Wisconsin. Wis. Conserv. B. 16(4):12-13. Apr. 1951. 279.8 W752
- 43410 STROUT, E. B. The blue *Amaryllis*—*Worsleya rayneri*. Plant Life 7:123-130. 1951. 450 P695
- 43411 STRUYS, L. C. Bulb field days. Importance of soil mapping in the bulb industry. (In Dutch.) Weekbl. v. Bloembollencult. 61:278-280. (To be cont.) Mar. 2, 1951. 80 W412
- 43412 STUART, R. L. Berried shrubs. Gard. Club Amer. B. 39(2):72-73. Mar. 1951. 90.32 G16
- 43413 SUTCLIFFE, A. A few of the *Daphnes*. Plants & Gard. 7:27-29. Spring 1951. 450 P694
- 43414 TAYLOR, K. S. Be a wild flower detective. Horticulture 29:90. Mar. 1951. 80 H787
- 43415 THROM, E. L., ed. How to grow the best lawn and garden in your neighborhood; a complete guide to gardening and landscaping. Chicago, Pop. Mech., 1951. 176 p. 90.1 T41
- 43416 TOTTY, H. M. Planning your perennial border. Flower Grower 38(4):42-43,51-53. Apr. 1951. 80 M72
- 43417 TRAMPOSCH, E. J. Using plants for harmonious effects; let's do it the right way. Horticulture 29:88, 115. Mar. 1951. 80 H787
- 43418 TRAUB, H. P. *Amaryllis henryae*—a miniature Pink Marvel. Plant Life 7:117-118. 1951. 450 P695
- 43419 TRAUB, H. P. Colchicine-induced *Hemerocallis* polyploids and their breeding behavior. Plant Life 7:83-116. Ref. 1951. 450 P695
- 43420 TRAUB, H. P. x *Habranthus floryi*. Plant Life 7:121-122. 1951. 450 P695
- 43421 TURNER, M. Red *Delphiniums* in California. Delphinium News 1951:3-4. Jan. 1951. 80 D38
- 43422 TURNER, W. C. Tulips do best with steady temperature. (Sum.) Grower [London] 35:606. Mar. 24, 1951. 286.83 M34
- 43423 UITEWALL, A. J. A. Variability within *Haworthia reinwardtii*. Cactus & Succulent J. Gt. Brit. 13:16-17. Jan. 1951. 450 C113
- 43424 VINEYARD, MRS. O. Accent on verticals. Green Thumb [St. Petersburg] 1(3):6-8. Jan. 1951. 80 G822
- Flower arrangements.
- 43425 WEATHERFORD, R. V. *Camellia*, *sasanqua* popularity spreading. Green Thumb [St. Petersburg] 1(3):36-37. Jan. 1951. 80 G822
- 43426 WEDDLE, C. Gardener's crystal ball; a plant breeder's preview of new annuals 1952-1960. Flower Grower 38(4):38-39,54-58. Apr. 1951. 80 M72
- 43427 WILFLINGER, Die Lorrainebegonie. Gartenbauwirtschaft [Wien] 1951:11-12. Jan. 10, 1951. 80 G1936
- 43428 WILSON, C. G. An experiment in growing *Delphinium* seeds. Delphinium News 1951:16. Jan. 1951. 80 D38
- 43429 WILSON, H. VAN P. The joy of flower arranging. New York, Barrows, 1951. 252 p. 96.03 W69
- 43430 WISTER, J. C. Lilacs. Plants & Gard. 7:4-11. Spring 1951. 450 P694
- 43431 WYMAN, D. Flowering shrubs in their sequence of bloom. Plants & Gard. 7:50-54. Spring 1951. 450 P694
- 43432 WYMAN, D. Other flowering shrubs. Plants & Gard. 7:59-62. Spring 1951. 450 P694
- 43433 WYMAN, D. Shrubs of interest during two seasons of the year. Plants & Gard. 7:18-23. Spring 1951. 450 P694
- 43434 YATES, W. C. Fun and surprises with cheap roses. Amer. Rose Mag. 9(5):10-11. Mar./Apr. 1951. 80 Am327A
- 43435 YOUNG, A. A retrospect of flowers. London, Cape, 1950. 176 p. 452.4 Y8R

#### Vegetable and Truck Crops (Including Potatoes)

- 43436 AGATI, G. Observations on some strains of tomato in the Canary Islands. (In Italian.) Riv. della Ortoflorofrutticoltura. Ital. 35:29-32. Jan./Feb. 1951. 86 R22
- 43437 ALBAN, E. K. Effect of three night temperatures on yield, maturity & keeping quality of greenhouse tomatoes. Mkt. Growers J. 80(3):9-10,28-29. Mar. 1951. 6 M34
- 43438 AMSTEIN, W. G. You can grow tomatoes. Kans. Farmer 88(7):16. Apr. 7, 1951. 6 K13
- 43439 ANDRUS, C. F. Congo popularity increases. South. Seedsman 14(3):36-37,55,82. Mar. 1951. 61.8 So8
- Small watermelon variety.



- 43440 ASHTON, J. R. Close planted lettuce seem to suit our market. Grower [London] 35:440-441. Mar.3, 1951. 286.83 M34  
Greenhouse culture.
- 43441 BALFOUR, F. K. The needs of the stock seed potato industry. (Sum.) Edinb. & East Scot. Col. Agr. B. 21:28-29. May 1950. 103 Ed4E
- 43442 BALL, M. A. The National Junior Vegetable Growers Association. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:116-120. 81 V52
- 43443 BARDIER, M. I. El cultivo de tomates de primor. Uruguay. Min. de Ganad. y Agr. B. Inform. 7(359): 12-13. Feb.15,1951. 9.9 G15B
- 43444 BARNES, W. C. If the crop's disappointing don't blame the seed. South. Seedsman 14(4):25,60. Apr. 1951. 61.8 So8  
Vegetables.
- 43445 BARNES, W. C. Santee cucumber. Seed World 68(5):52. Mar.2,1951. 61.8 Se52
- 43446 BARTON, K. P. Mushroom growing. 1-3. Smallholder 84(2129):10; (2130):9; (2131):9. Mar.9-23,1951. 10 Sml  
Title varies.
- 43447 BEATTIE, J. H., and DOOLITTLE, S. P. Muskmelons. U. S. D. A. Farmers' B. 1468, rev. 38 p. Mar.1951. 1 Ag84F
- 43448 BEATTIE, W. R. Looking back over the years in the origin and growth of the Vegetable Growers Association of America, Inc. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:111-116. 81 V52
- 43449 BECKER, J. Handbuch des gesamten gemüsebaues einschliesslich der gewürz und küchenkräuter. Ed. 5, rev. Berlin, Parey, 1950. 856 p. 91 B383
- 43450 BENDER, E. K. Producing more and better spinach in Maryland. Md. Farmer 35(2):2,11. Feb.1951. 6 M362
- 43451 BLACK, W. Breeding of new varieties. Edinb. & East Scot. Col. Agr. B. 21:5-7. May 1950. 103 Ed4E  
Potatoes.
- 43452 BONIFACIO, P. Results of grafting experiments in Solanaceae. (In Italian.) Riv. della Ortoflorofrutticoltura. Ital. 35:42-43. Jan./Feb.1951. 86 R22
- 43453 BOOTH, C. E. How to grow good cabbage. Org. Gard. 18(4):42-44. Apr.1951. 56.8 Or3
- 43454 BOUSARD, M. Growing tomato plants. (In Flemish.) Cult. en Handel 17:170-173. Mar.1951. 80 C892
- 43455 BOYD, D. A., and DYKE, G. V. Maincrop potato growing in England and Wales. Gt. Brit. Natl. Agr. Adv. Serv. Q. Rev. 10:47-57. Winter 1950. 241 G796  
Culture and yields.
- 43456 BROWN, G. B. Carrot and beet seed production as affected by steckling planting date and delayed planting after removal from storage. Amer. Soc. Hort. Sci. Proc. 56:271-274. Dec.1950. 81 So12
- 43457 BROWN, H. D. News about vegetable growers and production methods across the seas. Mkt. Growers J. 80(3):36-39. Mar.1951. 6 M34
- 43458 BUKHAREV, F. On the root system of vegetable crops. (In Russian.) Sad i Ogorod 1950(12):53-54. Dec.1950. 80 Sa13
- 43459 BURKHART, L. Arizona melon improvement. West. Grower & Shipper 22(5):15,38,40. Apr.1951. 280.38 W52
- 43460 CASSERES, E. H., and THOMPSON, H. C. Snap bean variety tests at Turrialba, Costa Rica. Amer. Soc. Hort. Sci. Proc. 56:349-352. Dec.1950. 81 So12
- 43461 CETTI, G. Advice on the selection of varieties of seed potatoes. (In Italian.) Campagna 50:12-13. Jan. 31,1951. 16 C152
- 43462 CHRISTENSEN, J. My 25 years with the Vegetable Growers' Association of America. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:108-109. 81 V52
- 43463 COMBS, O. B. Planning a garden? Here are a few tips to make it grow. Dairyland News 21(3):11-12. Mar.1951. 280.28 W752  
Vegetables.
- 43464 DORIGATTI, R. Seed potatoes. (In Italian.) Almanacco Agr. (1951)62:81-84. 1950. 16 AL6  
Varieties.
- 43465 DUNLAP, W. H. 7 ways to have good luck with potatoes. East. States Coop. 27(3):9. Mar.1951. 280.28 Ea7  
Culture.
- 43466 EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE. Seed potato production; report on conference held in Perth on Wednesday, 3rd August, and Thursday, 4th August 1949. Edinb. & East Scot. Col. Agr. B. 21,30 p. May 1950. 103 Ed4E
- 43467 EGUCHI, Y. Sosai no aishu to kefei [The seed collecting of vegetables and the management thereof]. Tokyo, Seibundo Shinko-sha, 1950. 321 p. 91 Eg82
- 43468 EYSTER, W. H. The vegetable garden. III. Org. Gard. 18(4):24-26. Apr.1951. 56.8 Or3
- 43469 FAUCILLON, X. Pour avoir de bonne heure des fèves, faites la culture en primeur. Rustica 24:127. Feb.11,1951. 14 R92
- 43470 FIELDING, A. M. Grow and market more profitable watermelons. West. Grower & Shipper 22(4):12-13, 41-43,46. Mar.1951. 280.38 W52  
Includes Watermelon survey—1949 and 1950, by W. A. Herdman, and R. C. Mee.  
Chiefly on culture.
- 43471 FINCH, C. G. The better Brassica varieties. Grower [London] 35:447,449,451. Mar.3,1951. 286.83 M34
- 43472 FOGG, H. G. W. Planning the vegetable garden. Smallholder 84(2128):10. Mar.2,1951. 10 Sml
- 43473 GALVAO, A. T. Onion culture. (In Portuguese.) Gaz. do Agr. 2:297-301. Dec.1950. 24 G25
- 43474 GARATTONI, E. Increase of spring crops. (In Italian.) Spezia Agr. 6(3):2. Mar.1,1951. 16 Sp3  
Potato and corn culture.
- 43475 GARDNER, J. S. Potato growing. Ky. Agr. Col. Ext. C. 307, rev. 19 p. Jan.1951. 275.29 K415
- 43476 GARDNER, J. S. Sweet potato growing. Ky. Agr. Col. Ext. C. 308, rev. 11 p. Jan.1951. 275.29 K415
- 43477 GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Truck crops for the Coastal Plain of Georgia. Ga. Coastal Plain Expt. Sta. Mimeog. Paper 72,3 p. Jan.1951. 100 G292M
- 43478 GODFREY, G. H. Native wild melon of Texas, proud parent of Rio-Sweet; new mildew resistant melon scores high shape and taste appeal. South. Seedsman 14(3):65,74. Mar.1951. 61.8 So8
- 43479 GOLUBINSKII, I. N. A case of a climbing bean changing into a bush bean. (In Russian.) Priroda 39(9): 66. Sept.1950. 410 P933
- 43480 GOMES, P. Culture of sweet potatoes. (In Portuguese.) Selec. Agr. 6(57):29-30. Jan.1951. 9.2 Se4
- 43481 GRUNEBERG, J. Erfahrungen des dänischen rübenbaues. Neue Mitt. f. die Landwirt. 6:135. Mar.3, 1951. 18 N39
- 43482 GUALBA, C. Cultivo y explotación del apio. Cult. Mod. 34:13-14. Jan.1951. 15 C89
- 43483 HAAN, H. DE. The cultivation of new potato varieties. (In Dutch.) Groninger Landtbl. 28(50):11. Dec.23,1950. 12 G892
- 43484 HAGEN, VON. Die zugelassenen topfnambur-sorten. Deut. Landwirt. Presse 74:45-46,63. Feb.17-Mar. 3,1951. 18 D482
- 43485 HAISMA, J. P. The culture of potatoes for export. (In Dutch.) Friesch Landtbl. 48:69. (Cont.) Feb.2, 1951. 12 F91
- 43486 HALSEY, L. H., and JAMISON, F. S. Yields of tomato varieties harvested at two stages of maturity from staked and unstaked plants. Amer. Soc. Hort. Sci. Proc. 56:332-336. Dec.1950. 81 So12
- 43487 HARTMAIR, V. Erfolgreicher gemüsebau in berglagen. Gartenbauwirtschaft [Wien] 1951:1-2. Jan.10, 1951. 80 G1936
- 43488 HASKELL, G., and DOW, P. Studies with sweet corn. V. Seed-settings with distances from pollen source. Empire J. Expt. Agr. 19(73):45-50. Ref. Jan.1951. 10 Em7
- 43489 HENDRIX, J. W., and MURAKISHI, H. Influence of some soil treatments on the rooting and survival of carnation slips in Hawaii. Amer. Soc. Hort. Sci. Proc. 56:491-497. Dec.1950. 81 So12
- 43490 HUNTER, K. Uncommon vegetables for the epicure. Gard. Illus. 68:115. Apr.1951. 80 G169
- 43491 IURIN, A. I. In regard to speeding up onion seed production. (In Russian.) Sad i Ogorod 1950(12):51-53. Dec.1950. 80 Sa13
- 43492 JACKSON, R. L. O. Mushroom graph indicates when to empty. Grower [London] 35:607. Mar.24,1951. 286.83 M34
- 43493 JONES, C. H. Does constant humidity protect the plant? Grower [London] 35:721,723. Apr.7,1951. 286.83 M34  
Chiefly on potatoes.
- 43494 JONES, D. F. Best vegetable varieties for 1951. Rur. New-Yorker 101:165-166,216. Mar.3-17,1951. 6 R88
- 43495 JONES, H. A. Development of hybrid onions, 1925 to date. Mkt. Growers J. 80(3):18,20,22-23. Mar. 1951. 6 M34
- 43496 KHOKHLACHEVA, N. A. New varieties of melons and squash. (In Russian.) Sad i Ogorod 1950(12): 55-56. Dec.1950. 80 Sa13



- 43497 KILPATRICK, D. T., and EDWARDS, G. R. Brussels sprouts as a market crop. Grower [Adelaide] 5(5):12-13, 15-17. Nov. 1950. 80 G912
- 43498 KREISER, R. F. 1951 season California spuds now under way. Fruit & Veg. Rev. 13:12-13, 25. Apr. 1951. 80 C1224
- 43499 MACGILLIVRAY, J. H. Growth and yield of sweet corn. Fruit & Veg. Rev. 13:26. Apr. 1951. 80 C1224
- 43500 M'INTOSH, T. P. The registration of potato varieties. Edinb. & East Scot. Col. Agr. B. 21:7-22. May 1950. 103 Ed4E
- 43501 MAIN, A. D. C. Potato cultivations. (Sum.) Edinb. & East Scot. Col. Agr. B. 21:28. May 1950. 103 Ed4E
- 43502 MAKARO, I. L. Effect of developmental conditions and storage of cabbage seeds on their germination. (In Russian.) Selek. i Semen. 17(11):61-66. Nov. 1950. 61.9 Se5
- 43503 MALMONTE. La présentation du plant. Pomme de Terre Franç. 14(137):16-18. Feb. 1951. 75.8 P77
- 43504 MALMUS, H. Hinweise für den saatkartoffelbau. Neue Mitt. f. die Landwirt. 6:20-21. Jan. 13, 1951. 18 N39
- Germanv.
- 43505 MARTINI. Pflanzgutwechsel auch 1951? Württemb. Wchnbl. f. Landwirt. 118:217. Mar. 17, 1951. 18 W96
- Potatoes.
- 43506 MEYER ZU BELM. Was ergeben die gemüsesortenertragsversuche von 1950? Landwirtbl. Weser-Ems 98:184-185. Mar. 1, 1951. 18 L2345
- 43507 MONTALDO B., A. Producción de semilla de papa. Chile. Dir. Gen. de Agr. Agr. Tec. 10:32-42. June 1950. 464.9 C432B
- English summary.
- Chile.
- 43508 MOORE, J. F. Use of a para-chlorophenoxy-acetic acid spray and two pruning systems to increase yield and fruit size of field-grown tomatoes in western Washington. Amer. Soc. Hort. Sci. Proc. 56:299-302. Dec. 1950. 81 So12
- 43509 MORRISON, G. Tomato varieties for American gardens. Seed World 68(5):36, 38. (Concl.) Mar. 2, 1951. 61.8 Se52
- 43510 NICOLAISEN, N. Der anbau von speisezwiebeln. Deut. Landwirt. Presse 74:32-33. Feb. 3, 1951. 18 D482
- 43511 NICOLAISEN, N. Zünftiger feldgemüsebau. Neue Mitt. f. die Landwirt. 6:38-39. Jan. 20, 1951. 18 N39
- Germany.
- 43512 NIHON ENGEI CHUO-KAI. Kansho mareisho zosan gijutsu no kiso [Basic technique of increasing production of sweet potatoes and potatoes]. Nagano, 1950. 550 p. 75 N572
- 43513 OBRELLI, A. The Majestic [potato] seen in the country of its origin. (In Italian.) Almanacco Agr. (1951) 62:121-127. 1950. 16 AL6
- 43514 ODENE, L. Des haricots durant toute l'année. Cour. Hort. 13:31-32. Jan. 1951. 80 C834
- 43515 ODLAND, M. L., and ISENBERG, F. M. R. The value of asexual propagation in the production of F1 hybrid cabbage seed. Amer. Soc. Hort. Sci. Proc. 56:372-376. Dec. 1950. 81 So12
- 43516 ODLAND, M. L., and NOLL, C. J. Vegetable variety trials, 1950. Pa. Agr. Expt. Sta. Prog. Rpt. 42, 12 p. Feb. 1951. 100 P381P
- 43517 PAGUIRIGAN, D. B. Outline of Philippine crops. Agr. & Indus. Life 13(2):32, 36. Feb. 1951. 25 Ag8
- Culture of Irish potatoes and Bermuda onions.
- 43518 PATISSIER, J. Pommes de terre sélectionnées. Paris, Flammarion, 1950. 272 p. Ref. (La Terre, Encyclopédie Paysanne) 75 P272
- 43519 PHILLIPS, E. E. The heat unit summation theory as applied to canning crops. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:169-187. Ref. 81 V52
- 43520 PRAILL, F. E. M. A late spring and growers' difficulties. Grower [London] 35:610-611, 613. Mar. 24, 1951. 286.83 M34
- Vegetables.
- 43521 PRATT, A. J., LEIBY, R. W., and CHUPP, C. The vegetable garden. N. Y. Agr. Col. Cornell Ext. B. 696, rev., 64 p. Apr. 1950. 275.29 N48E
- 43522 PROCTER, C. In search of a better tomato. Grower [London] 35:554. Mar. 17, 1951. 286.83 M34
- Greenhouse culture.
- 43523 RASMUSSEN, C. R. Impressions from the champignon laboratory and champignon culture in Holland. (In Danish.) Gart.-Tid. 67:123-125. Mar. 7, 1951. 80 G192
- 43524 RAYMOND, C. B., and SWEET, R. D. Sweet corn. N. Y. Agr. Col. Cornell Ext. B. 819, 16 p. Mar. 1951. 275.29 N48E
- 43525 RICHAUD, M. Choux-fleurs. Réveil Agr. 60:33, 55-56, 71. (Cont.) Feb. 1-Mar. 1, 1951. 14 R322
- Culture and marketing in France.
- 43526 RIEMAN, G. H. Potato breeding problems. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:193-195. 81 V52
- 43527 ROSELLA, E. Voici l'heure de semer les pommes de terre; quelques conseils avant de planter. Réveil Agr. 60:38-39. Feb. 1, 1951. 14 R322
- 43528 ROSS, H. S. Let's make a salad garden. Horticulture 29:85, 104. Mar. 1951. 80 H787
- 43529 SAGAYDAK, I. N. Grafting of racemes. (In Russian.) Selek. i Semen. 17(11):46-50. Nov. 1950. 61.9 Se5
- Experiments with tomatoes.
- 43530 SAYRE, C. B., PEW, W. D., and PATTERSON, M. E. Comparative yields of 5 varieties of tomatoes harvested at mature-green and at red-ripe maturity. Amer. Soc. Hort. Sci. Proc. 56:337-342. Dec. 1950. 81 So12
- 43531 SCHAUER, H. Growing vegetable seeds (1950-51). (In Hebrew.) Hassadeh 31:159-160. Jan. 1951. 26 H27
- 43532 SHOWALTER, A. M. The segregation of fruit shapes in selected inbred lines of *Curcubita moschata* var. Golden Cushaw. (Abs.) Genet. Soc. Amer. Rec. 19:125. 1950. 442.9 G28
- 43533 SNYDER, M. R. Vegetables in a small plot. Horticulture 29:82. Mar. 1951. 80 H787
- 43534 SOKOLOV, P. P. From the work of Azerbaidzhan Scientific Research Institute of Agriculture. (In Russian.) Agrobiologiya 1950(6):149-154. Nov./Dec. 1950. 20 Ag822
- Experiments on peas.
- 43535 TIEDJENS, V. A. Bigger yields of white potatoes. South Planter 112(3):28-29. Mar. 1951. 6 So89
- Includes culture.
- 43536 TRIP, J. The culture of potatoes for export. (In Dutch.) Friesch Landtbl. 48:86. (Concl.) Feb. 9, 1951. 12 F91
- 43537 TUL'ZHENKOVA, F. F. Best cucumber varieties for protected ground in Extreme North and in arctic regions. (In Russian.) Sad i Ogorod 1950(12):48-51. Dec. 1950. 80 Sa13
- 43538 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. The National Potato-Breeding Program, 1950; twenty-first annual report to cooperators. Beltsville, Md., 1951. 227 p. 1.9 P772Pot
- 43539 UPHOF, J. C. T. Cultivo y cura de la pimienta. Bolsa de Com., Rosario. Rev. 39(938):14-16, 18-24. Feb. 15, 1951. 287 R71
- 43540 VAN STADEN, J. F. The fight to grow crops in Cape Flats sand. Farmer's Wk. [Bloemfontein] 80:10-11. Feb. 28, 1951. 24 F225
- Vegetable crops.
- 43541 VEGETABLE GROWERS ASSOCIATION OF AMERICA. Annual report, 1950. n.p., 1950. 388 p. 81 V52
- 43542 VERBRUGGEN, A. Lettuce for early outdoor culture. (In Flemish.) Cult. en Handel 17:21-23. Jan. 1951. 80 C892
- 43543 VOLOSKY YADLIN, E. Tres nuevas variedades de hortalizas para Chile. Chile. Dir. Gen. de Agr. Agr. Tec. 10:43-53. June 1950. 464.9 C432B
- English summary.
- 43544 VORSTER, P. W., and JOUBERT, T. G. LA G. The new early onion variety: Texas Grano; cultivation results and the production of seed. Farming So. Africa 26:45-48, 51. Feb. 1951. 24 So842
- 43545 WITTWER, S. H., REATH, A. N., and DAVIS, J. F. Pascal celery varieties in Michigan. Mich. Agr. Expt. Sta. Q. B. 33:242-248. Feb. 1951. 100 M505
- 43546 WOODWARD, A. J. Modern growers and their methods (new series)--No. 24. Reclaimed land becomes some of the best in district. Grower [London] 35:498-499, 501, 503. Mar. 10, 1951. 286.83 M34
- Vegetable culture.
- 43547 WORK, P. Some new vegetables seem worthy of trial. South. Seedsman 14(4):34-35. Apr. 1951. 61.8 So8
- 43548 WORK, P., and AMY, A. S. Tomato plant growing experiments in Puerto Rico. Amer. Soc. Hort. Sci. Proc. 56:266-270. Dec. 1950. 81 So12
- 43549 WORK, P., ELLE, G. O., and COOK, J. A. Vegetable breeders offer new varieties for 1951. N. Y. Agr. Col. Cornell Ext. B. 827, 8 p. Feb. 1951. 275.29 N48E



- 43550 YEAGER, A. F. Watermelons for the North. Horticulture 29:93. Mar.1951. 80 H787  
 43551 ZIMMERMAN-GRISS, S. The germination of potatoes by heating. (In Hebrew.) Hassadeh 31:154-155. Jan.1951. 26 H27

## WEEDS AND POISONOUS PLANTS

- 43552 AKAMINE, E. K. Persistence of 2,4-D toxicity in Hawaiian soils. Bot. Gaz. 112:312-319. Ref. Mar. 1951. 450 B652  
 43553 ALBERT, W. B. Chemical weed control in corn and cotton by pre-emergence and post-emergence applications of herbicides. S. C. Agr. Expt. Sta. C. 80, 16 p. Jan.1951. 100 So8  
 43554 ALTONA, R. E., and MENTZ, N. J. The control of weeds in maize with selective plant-growth regulations; second report 1949-50 season. Empire J. Expt. Agr. 19 (73):26-32. Jan.1951. 10 Em7  
 43555 ANDERSON, E. G. The registration of herbicides in Canada. West. Canad. Weed Control Conf. Proc. 3:140-143. Nov.30,1949. 79.9 W522  
 43556 BALSEVICIUS, E. Los activadores químicos aseguran la efectividad de los matamalezas en los arrozales. Rev. Agr. y Ganad. 12(131):2. Dec.1950. 9.4 R327  
 43557 BARRONS, K. C. Vegetation control on non-agricultural land. In Skoog, F., ed. Plant growth substances, p.187-193. Madison, U. Wis. Press, 1951. 90.11 Sk5  
 43558 BAUR, K. Chemical weeding tests at Puyallup. Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:42-43. 1950. 81 N817  
 43559 BEATING brush with 2,4,5-T. Chem. Indus. Week 68(12):25-26. Apr.7,1951. 381 C426  
 43560 BELLUE, M. K. More from Modoc on Mediterranean sage. Calif. Dept. Agr. B. 40:32-33. Jan./Mar. 1951. 2 C12M  
 43561 BLACKMAN, G. E. La toxicidad selectiva y el desarrollo de los destructores de maleza. Tambo y Chacra 24(788):3.6. (Cont.) Feb.13,1951. 44.8 T15  
 43562 BOUCHET, R. L., and DUMONT, L. Destruction de la macre (Trapa natans L.) dans les étangs des Dombes à l'aide du 2,4-dichlorophénoxyacétate de sodium. Acad. d'Agr. de France. Compt. Rend. 37:33-36. Jan. 10/17,1951. 14 P215Bc  
 43563 BRODIE, A. Chemical control of vegetation. Engh. J. 34:180-188. Mar.1951. 290.9 En3  
 43564 BROWN, D. A. Effect of 2,4-D on annual weeds. West. Canad. Weed Control Conf. Proc. 3:13-16. Nov.30,1949. 79.9 W522  
 43565 BUCKLEY, T. A. Notes on the control of trees and weeds by phytocides. Malayan Agr. J. 34:27-31. Jan. 1951. 22.5 F312  
 43566 CARLSON, A. E. Brush control and the public. Telephone Engin. & Mangt. 55(4):46-47. Apr.1951. 335.8 T232  
 43567 CARLSON, R. F., MOULTON, J. E., and KRONE, P. R. Further developments in weed control in Gladiolus. Mich. Agr. Expt. Sta. Q. B. 33:269-274. Feb. 1951. 100 M58S  
 43568 CARLSON, R. F., and MOULTON, J. E. Further testing of herbicides in strawberry plantings. Mich. Agr. Expt. Sta. Q. B. 33:262-268. Feb.1951. 100 M58S  
 43569 CHIAPPELLI, R. Chemical herbicides in rice fields with particular reference to Agrozone. (In Italian.) Riscicoltura 38:263-266. Nov.1950. 59.8 G43  
 43570 CORNS, W. G. Experiments on chemical control of woody growth. West. Canad. Weed Control Conf. Proc. 3:93-95. Nov.30,1949. 79.9 W522  
 43571 COULTER, L. L. Chemical brush control. Elect. News & Engin. 60(8):77-78,80. Apr.15,1951. 335.8 EL224  
 43572 CRAIG, H. A. Eradicating woody growth with chemicals in Manitoba. West. Canad. Weed Control Conf. Proc. 3:89-92. Nov.30,1949. 79.9 W522  
 43573 CROOK, S. R. Crab grass control. Prof. Gard. 3:34-35. Feb.1951. 80 P945  
 43574 DOWNING, G. R. The bird's nest plant. Nat. Mag. 44:148. Mar.1951. 409.6 N214  
 43575 EGLER, F. E. Brush control; an aspect of "plant-community management." Elect. Light & Power 29(3):98-99,151. Mar.1951. 335.8 EL243  
 43576 ELDER, W. C. Bermuda grass control. Okla. Agr. Expt. Sta. Mimeog. C. M-214,4 p. Feb.1951. 100 Ok4M  
 43577 ELDER, W. C. Controlling Johnson grass in Oklahoma (a progress report). Okla. Agr. Expt. Sta. Mimeog. C. M-215,5 p. Feb.1951. 100 Ok4M  
 43578 ELLETT, W. Farmer's views on chemical weed control. West. Canad. Weed Control Conf. Proc. 3: 135-137. Nov.30,1949. 79.9 W522  
 43579 ELLIS, H. Fighting weeds with beetles. Farm J. 65(4):29. Apr.1951. 6 F2212  
 43580 ENGELMANN, H. Kampf gegen das unkraut im wintergetreide! Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:361. Mar.8,1951. 18 L2346  
 43581 EWART, G. Y. Use of aromatic solvents in aquatic weed and pest control. Agr. Engin. 32:157-158, 160. Mar.1951. 58.8 Ag83  
 43582 FERTIG, S. N. 1951 weed control in field crops. N. Y. Agr. Col. Cornell Ext. B. 821,3 p. Feb. 1951. 275.29 N48E  
 43583 FRASER, G. R. Occurrence of weeds in western Canada. West. Canad. Weed Control Conf. Proc. 3:5-8. Nov.30,1949. 79.9 W522  
 43584 FREED, V. H. Chemical weed control in bulb crops. Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:38-42. 1950. 81 N817  
 43585 FRIESEN, H. A. Chemical control of annual weeds in growing crops. West. Canad. Weed Control Conf. Proc. 3:12-13. Nov.30,1949. 79.9 W522  
 43586 GIST, E. S. Irish furze in Oregon. Nat. Mag. 44:130,162. Mar.1951. 409.6 N214  
 43587 GONGGRUP, J. The use of weed-killing oils. (In Dutch.) Landbk. Tijdschr. 63:103-116. Ref. Feb. 1951. 105.2 Or3  
 43588 GOOR, G. A. W. VAN DE. Weed control with synthetic growth hormones. Indonesia. Gen. Agr. Res. Sta. Contrib. 108,45 p. Ref. Sept.1950. 109.5 Ea73  
 43589 GREVE, Zu: die unkrautbekämpfung mit chemischen mitteln im getreide. Landwirtbl. Weser-Ems 98: 118-119. Feb.8,1951. 18 L2345  
 43590 HAGSAND, E., and ÅBERG, E. The effect of 4K-2M and 2,4-D weed-killers on Galeopsis spp. and Spargula arvensis L. Sweden. Lantbrhögsk. Ann. 17:37-44. 1950. 104 Un6  
 43591 HALIDAY, D. J., and TEMPLEMAN, W. G. Field experiments in selective weed control by plant-growth regulators. III. Weed control in grassland. Empire J. Expt. Agr. 19(73):33-44. Ref. Jan.1951. 10 Em7  
 43592 HARRIS, G. A. St. Johnswort [Hypericum perforatum] on western ranges; a review of literature and bibliography. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Paper 26,18 p. Feb.1951. 1.9622 N3St1  
 43593 HARRIS, V. C. Progress report on weed control in cotton at State College, Mississippi. Down to Earth 6(4):6-7. Spring 1951. 381 D75  
 43594 HART, G. H. Brush burning—California blazes a trail in reclaiming to grass its acres of brush land. West. Livestock J. 29(22):35,48-51,57,59-60. Mar.15,1951. 6 F2278  
 43595 HAVIS, J. R. Chemical weed control in nurseries. Amer. Nurseryman 93(5):13. Mar.1,1951. 80 Am371  
 43596 HEIKINHEIMO, A., and RAVANTTI, T. On the use of hormone derivatives in weed control on grasslands. (In Finnish.) Siemenjulkaisu 1950:176-192. Ref. 61.9 K48  
 43597 HELM, C. A. The use of pre-emergence sprays in corn production. Down to Earth 6(4):12. Spring 1951. 381 D75  
 43598 HELM, C. A. Weed control in corn through use of chemicals. Mo. Agr. Expt. Sta. C. 354,7 p. Dec.1950. 100 M693  
 43599 HEMPHILL, D. D. New weed control practices in strawberries. Mo. Agr. Expt. Sta. C. 355,4 p. Jan. 1951. 100 M693  
 43600 HERNANDEZ, T. P., and WARREN, G. F. A comparison of 2,4-D pre-emergence treatments on onions on two soils. Amer. Soc. Hort. Sci. Proc. 56:283-286. Dec.1950. 81 So12  
 43601 HIGGINS, A. V. We declared war on poison ivy. Childhood Educ. 27:373-376. Apr.1951. 320.8 C435  
 43602 HIGGINS, F. H. Rice growers get weed answers. Calif. Farmer, North. Ed. 194:352-353. Apr.7, 1951. 6 C126  
 43603 HILTON, R. Chemical weed control experiments with horticultural crops. West. Canad. Weed Control Conf. Proc. 3:66-67. Nov.30,1949. 79.9 W522



- 43604 HORNER, W. H., and FRASER, G. The standardization of 2,4-D. West. Canad. Weed Control Conf. Proc. 3:144-145. Nov.30,1949. 79.9 W522
- 43605 IT'S SPRING, time to kill those weeds. West. Livestock J. 29(22):40,99,101. Mar.15,1951. 6 F2278
- 43606 JACOBS, H. L. 2,4-D, friend or foe? Natl. Shade Tree Conf. Proc. 26:23-30. 1950. 99.9 N218
- 43607 KNOWLES, G. The Eastern Weed Control Conference. West. Canad. Weed Control Conf. Proc. 3:131-134. Nov.30,1949. 79.9 W522
- 43608 KOVAČEVIĆ, J. Mixtures of weed seeds in Bosnia flax seed and comparison with that of foreign origin. (In Croatian.) Biol. Inst. God. 2:61-65. Ref. 1949, pub.1950. 442.9 Sa73  
Russian summary.
- 43609 KULL, R. R. Here are some answers to questions about chemical weed killers. Wash. Farmer 76:238, 271. Apr.5,1951. 6 R151
- 43610 LACHMAN, W. H. Weeding corn with chemicals. II. Amer. Soc. Hort. Sci. Proc. 56:279-282. Dec.1950. 81 Sol2
- 43611 LEGGETT, H. W. Combining cultural and chemical weed control practices. West. Canad. Weed Control Conf. Proc. 3:148-150. Nov.30,1949. 79.9 W522
- 43612 LEWIS, N. G. Problem of irregular germination of weed seeds. West. Canad. Weed Control Conf. Proc. 3:163-166. Nov.30,1949. 79.9 W522
- 43613 LONG, E. J. Poison ivy counter attack! Nat. Mag. 44:135-136. Mar.1951. 409.6 N214
- 43614 LORENZINI, O. A. El abrojo grande y su destrucción. Pampa Argentina 24(278):8,35. Jan./Feb.1951. 9 P19
- 43615 MCDONALD, B. K. Tillage practices for control of wild oats, tartary buckwheat, and other weeds having delayed germination. West. Canad. Weed Control Conf. Proc. 3:167-171. Nov.30,1949. 79.9 W522
- 43616 MAJOR, W. A. Selective weedkillers. Pharm. J. 164:498;165:77. June24,July29,1950. 396.8 P49
- 43617 MANN, G. Weed your garden the chemical way. Sci. Digest 29(5):67-71. May 1951. 470 Sci27
- 43618 MARSCHALL, W. I. Agency-farmer cooperation needed in mesquite eradication work. West Tex. Today 32:13. Mar.1951. 286.8 W522
- 43619 MARTIN, J. A. A tough one to crack, nutgrass [*Cyperus rotundus*] can be killed with chloropicrin. South. Seedsman 14(4):28-29,58. Apr.1951. 61.8 So8
- 43620 MEADLY, G. R. W. Prickly pear (*Opuntia* sp.). Austral. Dairy Rev. 19(2):14. Feb.1,1951. 44.8 Au73
- 43621 MECHANISING agriculture: flame cultivation. Agr. Econ. 2(3):7. Nov.1950. 281.8 Ag832
- 43622 MEURMAN, O. Extermination of orchard weeds with chlorate-containing preparations. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:217-220. 86 Sv2 Finland.
- 43623 MINSHALL, W. H. Eradication of poison ivy (*Rhus radicans* L.). V. The effect of foliage removal prior to treatment on the control of poison ivy by applications of ammonium sulfamate and 2,4-dichlorophenoxyacetic acid. Sci. Agr. 31:127-130. Mar.1951. 7 Sci2
- 43624 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. The suppression of weeds. North. Ireland. Min. Agr. Mon. Rpt. 25:334-337. (To be cont.) Mar.1951. 256.13 Ag82M
- 43625 OCFEMIA, G. O., and JAVIER, S. V., JR. Experimental control of water hyacinth [*Eichhornia crassipes*] in low-land rice fields with herbicides. Philippine Agr. 33:285-287. Apr./June 1950. 25 P542
- 43626 OLSON, P. J., and DOUGLAS, A. 2,4-D dust vs 2,4-D spray. West. Canad. Weed Control Conf. Proc. 3:103-111. Nov.30,1949. 79.9 W522
- 43627 PALMER, E. Unknown poison plants are dangerous killers. Veldtrust 12(12):16-17,31. Dec.1950. 56.8 V54
- 43628 PEST CONTROL. Pest control; farmers' handbook. Northampton, Eng., 1950. 99 p. 423 P433P  
Weeds, insects, and diseases.
- 43629 PETERSEN, H. I. Experiences with the effect of chemical herbicides in 1950. III. (In Danish.) Dansk Landbr. 70:46-48. Jan.25,1951. 280.28 V91
- 43630 PLATT, R. Wonder weeds. Camp Fire Girl 30(8):10. Apr.1951. 275.8 G932
- 43631 PONTE, A. M. DA. Plant hormones in selective weed control. (In Portuguese.) Gaz. do Agr. 3:15-21. (To be cont.) Jan.1951. 24 G25  
2,4-D.
- 43632 RAJAPAKSE, G. Illuk, the destroyer. Ceylon Coconut Q. 1(3):7-10. July/Sept.1950. 77.8 C33  
A noxious grass similar to *Imperata cylindrica*.
- 43633 RANDALL, C. G. The occurrence of red rice in California seed rice. Rice J. 54(2):23. Feb.1951. 59.8 R36
- 43634 RIPLEY, P. O. Weed control in Britain and Western Europe. West. Canad. Weed Control Conf. Proc. 3:124-130. Nov.30,1949. 79.9 W522
- 43635 RONCERAY, F. L'utilisation des hormones de synthèse ne présente plus de risques pour les agriculteurs. Défense Agr. de la Beauce et du Perche 48:141. Mar.24,1951. 14 D36  
2,4-D.
- 43636 RUTTAN, R. D. The standardization of 2,4-D. West. Canad. Weed Control Conf. Proc. 3:145-147. Nov.30,1949. 79.9 W522
- 43637 RYKER, T. C. Extinguidores de la mala yerba en los cañaverales de la Luisiana. Du Pont de Nemours, E. I. & Co. B. del Agr. 7(2):1-6. Mar./Apr.1951. 6 D92B
- 43638 RYKER, T. C. Stop, thief! Rangeland villains—weeds, brush—are picking stockmen's pockets. South. Seedsman 14(3):20,73,76,79. Mar.1951. 61.8 So8
- 43639 SALTER, R. M. Recent research on the use of agricultural chemicals. Washington, U. S. Bur. Plant Indus., Soils, & Agr. Engin., 1951. 19 p. 1.965 A2Sa3  
Address at meeting of the National Agricultural Chemical Association, Miami Beach, Apr. 4, 1951.  
Herbicides, fungicides, and soil fumigants.
- 43640 SCHMITT, N. Kampf dem unkraut! Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:356. Mar.8,1951. 18 L2346
- 43641 SEXSMITH, J. J. Tillage for the eradication of deep-rooted perennials. West. Canad. Weed Control Conf. Proc. 3:150-154. Nov.30,1949. 79.9 W522
- 43642 SHAULIS, N. J. A progress report on the use of fortified oil emulsions in weeding grapes. Amer. Soc. Hort. Sci. Proc. 56:203-209. Dec.1950. 81 Sol2
- 43643 SITTON, B. G., and others. Preemergence treatment for weed control in the tung nursery. Amer. Soc. Hort. Sci. Proc. 56:197-202. Dec.1950. 81 Sol2  
S. G. Gilbert, S. Merrill, W. A. Lewis, and W. W. Kilby, joint authors.
- 43644 SPERRY, O. E. The effects of 2,4-D on bitter-weed seed. Tex. Livestock J. 10(2):38-39. Feb.15,1951. 49 T29
- 43645 SPERRY, O. E. Experimental control of poisonous range plants in Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1334, 4 p. Mar.5,1951. 100 T31P
- 43646 STAHLER, L. M. How North Central Weed Conference area has made use of 2,4-D and 2,4,5-T. Agr. Chem. 6(4):39-40,107-109. Apr.1951. 381 Ag8
- 43647 STAMPER, E. R., and CHILTON, S. J. P. Johnson grass and chemicals in sugar cane in Louisiana. Down to Earth 6(4):9-10. Spring 1951. 381 D75
- 43648 STOLZE. Die unkrautbekämpfung mit chemischen mitteln im getreide. Landwirtsch. Weser-Ems 98:96-97. Feb.1,1951. 18 L2345
- 43649 SWEET, R. D. The war against weeds. Lamp 33:21-23. Mar.1951. 401.8 L19  
Petroleum as a weedicide.
- 43650 SYLWESTER, E. P., and WOLF, D. Chemicals and clean farming mean double trouble for weeds. Successful Farming 49(4):91-94. Apr.1951. 6 Su12
- 43651 SYLWESTER, E. P. Fewer weeds mean better gardens. Hoard's Dairyman 96:294,310-311. Apr.10,1951. 44.8 H65
- 43652 TALBERT, R. E., and PRYOR, M. R. Halogeton and its control. Calif. Dept. Agr. B. 40:34-36. Jan./Mar.1951. 2 C12M
- 43653 THOROLD, P. W. Cestrum aurantiacum poisoning. East African Agr. J. 16:114. Oct.1950. 24 Ea74
- 43654 VAN GELUWE, J. Killing brush in winter—with chemicals. G. L. F. Week. Serv. Sched. 15(35):3. Mar.5,1951. 280.28 G113W
- 43655 VAN GELUWE, J. Killing weeds the easy way. Amer. Agr. 148:216. Apr.7,1951. 6 Am3  
Chemical weed control.
- 43656 WARMBRUNN. Unkrautbekämpfung. Württemb. Wchnbl. f. Landwirt. 118:216-217. Mar.17,1951. 18 W96
- 43657 WARREN, G. F. Chemical weed control for muck crops. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:238-242. 81 V52
- 43658 WEISS, P. E. An inexpensive method of crabgrass control. Greenkeepers' Rptr. 19:5-6. Jan./Feb. 1951. 60.18 G83
- 43659 WESTERN CANADIAN WEED CONTROL CONFERENCE. Proceedings and abstracts, Macdonald Hotel, Edmonton, Alberta, November 15th, 16th and 17th, 1949. n.p., 1949. 195 p. 79.9 W522



- 43660 WILSON, A. M. The prevalence of weed seeds in seed grain. West. Canad. Weed Control Conf. Proc. 3: 154-156. Nov.30.1949. 79.9 W522
- 43661 WILSON, A. M. The third Western Weed Conference. West. Canad. Weed Control Conf. Proc. 3:4-5. Nov.30.1949. 79.9 W522
- 43662 WOLCOTT, A. Weed control is a necessary investment. Farmers Union Herald 25(7):12. Apr.9.1951. 280.28 F224
- 43663 WOOD, H. E. The effect of 2,4-D on perennial weeds. West. Canad. Weed Control Conf. Proc. 3:23-27. Nov.30.1949. 79.9 W522
- 43664 WOOD, H. E., and BRICE, G. The farmers' opinion of 2,4-D. West. Canad. Weed Control Conf. Proc. 3:137-139. Nov.30.1949. 79.9 W522
- 43665 WOOLFELK, E. T. No-Ho: a revolutionary stride forward. Cotton Trade J. Internatl. Ed. 31(10): 227-228. Mar.9.1951. 72.8 C82141
- Cotton weed control.
- 43666 YOUNG, P. A. Chemical control of weeds in converting pasture land to tomato production in East Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1338,3 p. Mar.8. 1951. 100 T31P
- MISCELLANEOUS ECONOMIC PLANTS**  
(Drug, Dye, Rubber, Etc.)
- 43667 ARROYO B., C. Siembra vegetativa de café, tratamiento con hormona "A." Suelo Tico 4:335-338. Nov./Dec.1950. 8 Su2
- 43668 BALDRATI, I. Trattato delle coltivazioni tropicali e sub-tropicali [Treatise on tropical and sub-tropical crops]. Milano, Hoepli, 1950. 615 p. 38 B19
- 43669 BLATTNY, C., ANTIPOVIĆ, D., and OSVALD, C. V. Etude sur les houblons sauvages. (In Czech.) Českoslov. Akad. Zemedel. Sborn. 23:215-224. 1950. 19.5 C332C
- French summary.
- 43670 BOGOMOLETS, A. G. In search for new honey plants. (In Russian.) Pchelovodstvo 27:491-492. Sept.1950. 424.8 P295
- Oenothera biennis.
- 43671 CAMPACCI, C. A. O alho: cultura pragas e moléstias [Garlic: culture, pests and diseases]. Vamos para o Campo 60,32 p. Ref. 1951. 9.2 V25
- 43672 CAROCCI BUZI, V. Consistency and action of the vegetable-mineral components of a classic oriental masticatory. (In Italian.) Riv. Ital. Essenze-Profumi-Piante Officinali-Olii Veg.-Saponi 33:4-9. Jan.15.1951. 308.8 R52
- Description and culture of Piper betle and other plants.
- 43673 CHALFIN, E. F. A head start for herbs and prolonging the season. Green Thumb [St. Petersburg] 1(3):29-31. Jan.1951. 80 G822
- 43674 CIFERRI, R., and CIFERRI, F. Reconocimiento de la explotación cacaotera de los Andes Venezolanos. Ist. Bot. della U. Pavla. Atti Sup. (ser.5)G,38 p. 1950. 451 P282
- 43675 DAVID, P. A. Vanilla culture in the College of Agriculture at Los Baños. Philippine Agr. 33:239-249. Apr./June 1950. 25 P542
- 43676 GANKEVICH, K. White swallowwort [Vincetoxicum officinale] and its role in apiculture. (In Russian.) Pchelovodstvo 27:492-493. Sept.1950. 424.8 P295
- 43677 GASTEV, N. S. On the culture of herbaceous vegetative [belladonna] hybrids. (In Russian.) Priroda 39(9):65-66. Sept.1950. 410 P933
- 43678 GONZALEZ, C. A. Quien poda sus cafetos poda sus ganancias. Suelo Tico 4:355-358. Nov./Dec.1950. 8 Su2
- 43679 GONZALEZ O., C., ARROYO B., C., and SOLIS R., F. Informe sobre el cultivo del café en Santa Ana (El Salvador). Suelo Tico 4:343-354. Nov./Dec.1950. 8 Su2
- 43680 HAGEMAN, R. H. Flowering induced on Derris elliptica. Amer. Soc. Hort. Sci. Proc. (Abs.) 56:235. Dec.1950. 81 So12
- 43681 HARRIS, P. G. Notes on dyeing in Argungu Emirate, Nigeria. Farm & Forest 10:33-35. 1950. 24 F226
- Dye plants.
- 43682 ILIEVA, S. Recherche sur le poids absolu et sur la germination des graines des plantes medicinales et étheriques. (In Bulgarian.) Bulgaria. Min. na Zemedel. i Gorite. Nauch.-Izsl. Inst. Spis. 18(1):31-68. Ref. 1950. 106.3 R32
- French summary.
- 43683 JOLY, R. L. Le Géranium rosat. Indus. de la Parfumerie 6:24-29. Ref. Jan.1951. 308.8 In2
- Culture.
- 43684 KARTASHEV, G. A. Study the pollen of flowers! (In Russian.) Pchelovodstvo 27:459. Sept.1950. 424.8 P295
- For identification of honey plants chiefly.
- 43685 LUDWIG, F. Die bedeutung des besenglnsters für forstwirtschaft und papierindustrie. Allg. Forst- u. Jagdztg. 122:62-64. 1950. 99.8 AL3
- 43686 MCDIARMID, N. I. Herb rockery. Estate Mag. 51:23-25. Jan.1951. 10 Es8
- 43687 MATHON, C. C. Une lavandaie en Haute Ligurie occidentale (Italie). Paris. Mus. Natl. d'Hist. Nat. B. (ser.2)22:388-395. May 1950. 410.9 P213
- 43688 MEIKLE, R. D. The quest for cortisone. Pharm. J. 165:142-144. Aug.26.1950. 396.8 P49
- Strophanthus hispidus and S. sarmentosus.
- 43689 MELLO, B. C. C. DE. Interpretation of the coffee production map in the Southeast of the Central Plateau of Brazil. (In Portuguese.) Rev. Bras. de Geog. 12:73-88. Ref. Jan./Mar.1950. 278.8 R32
- English summary.
- 43690 MERRILL, S., and BROWN, R. T. Inheritance of height of head in tung trees. Amer. Soc. Hort. Sci. Proc. 56:185-190. Dec.1950. 81 So12
- 43691 MIRANDA, S. Cacao culture. (In Portuguese.) Bahia. Sec. da Agr., Indus. e Com. Serv. de Divulg. B. 46(6):164-165. Mar.1950. 9.2 B14
- 43692 MOLFINO, J. F. Coníferas medicinales. Chacra 21(243):72-73,80;(244):72-73. Feb.-Mar.1951. 9 C34
- Argentina.
- 43693 NEFF, M. S., and O'ROURKE, E. N., JR. Factors contributing to superior growth and yield of vase type tung trees. Amer. Soc. Hort. Sci. Proc. 56:181-184. Dec.1950. 81 So12
- 43694 NEFF, M. S., and O'ROURKE, E. N., JR. Further studies of factors affecting growth of newly planted tung trees. Amer. Soc. Hort. Sci. Proc. 56:191-196. Dec.1950. 81 So12
- 43695 OLIVEIRA, L. M. DE. Brief practical instructions on coffee culture. (In Portuguese.) Bahia. Sec. da Agr., Indus. e Com. Serv. de Divulg. B. 46(6):70-73. Mar.1950. 9.2 B14
- 43696 OVERSACQ, J. Les plantes qui guerissent. Cour. Hort. 13:39. Jan.1951. 80 C834
- Romarinus officinalis.
- 43697 REGO, J. B. Plantas medicinales de la flora argentina. Pampa Argentina 24(278):6,44. Jan./Feb.1951. 9 P19
- 43698 ROBINSON, D. H. The orchard of a consulate. (In Portuguese.) Fazenda 46(2):32-33. Feb.1951. 6 H11P
- Tung production in Paraguay.
- 43699 SACCO, P. Plants, herbs and flowers; medicines, liquors and perfumes. (In Italian.) Italia Agr. 88: 102-107. Feb.1951. 16 It1
- 43700 SCARAMUZZI, F. Improvement of horticultural strains of sweet fennel. (In Italian.) Riv. della Ortoflorofrutticoltura. Ital. 35:19-27. Ref. Jan./Feb.1951. 86 R22
- English summary.
- 43701 SENNI, L. Zelkova crenata in the Herb Garden. (In Italian.) Nuovo Gior. Bot. Ital. (n.s.)56:647. 1949. 450 N92
- 43702 SILVA, H. J. L. DA. Considerations on the pruning of tea plants. (In Portuguese.) Gaz. do Agr. 3:2-5. Jan.1951. 24 G25
- 43703 SINGH, D. P. Kuth [Saussurea lappa] cultivation in Lahaul and its future. Indian Forester 77:71-74. Jan.1951. 99.8 In2
- 43704 SPRINKS, F. O. Some aspects of tea planting in Mauritius. Rev. Agr. de l'île Maurice 29:270-277. Nov./Dec.1950. 24 M44
- 43705 STEYN, D. G. Scientist tells farmers which Acacias are safe fodder trees. Veldtrust 11(11):15-16. 31. Nov.1950. 56.8 V54
- 43706 WALKER, A. Une petite Rubiacée utilisée au Gabon. (Geophila obovata T. Didr.). Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 30:652-653. Nov./Dec.1950. 26 R323



## SOILS AND FERTILIZERS

## SOIL SCIENCE

- 43707 BEAR, F. E. Some soil organic matter relationships. Internatl. Cong. Soil Sci. Trans. 4(1):114-125. 1950. 56.09 In844
- 43708 BERENDES, P. Der einfluss des klimas auf die leistung des bodens. Neue Mitt. f. die Landwirt. 6: 154. Mar. 10, 1951. 18 N39 Germany.
- 43709 BURGER HZN., D. Topological inertia and soil science. Internatl. Cong. Soil Sci. Trans. 4(2):204-205. 1950. 56.09 In844
- 43710 FERRARI, T. J. Growth factors and soil productivity: results of a multifactor-analysis. Internatl. Cong. Soil Sci. Trans. 4(1):348-352. 1950. 56.09 In844
- 43711 GRAČANIN, M. Typological investigations of vegetation and soil as a basis for land classification and evaluation. Internatl. Cong. Soil Sci. Trans. 4(2):205-207. 1950. 56.09 In844
- 43712 GRILLOT, G. Le Maroc et la science du sol. Terre Marocaine 25:71-74. Mar. 1951. 24 T44
- 43713 HENIN, S., and BETREMIEUX, R. Essais de pedologie experimentale. Internatl. Cong. Soil Sci. Trans. 4(1):149-151. 1950. 56.09 In844 English summary.
- 43714 HERNANDEZ, T. P., and WARREN, G. F. Some factors affecting the rate of inactivation and leaching of 2,4-D in different soils. Amer. Soc. Hort. Sci. Proc. 56:287-293. Dec. 1950. 81 So12
- 43715 INTERNATIONAL CONGRESS OF SOIL SCIENCE, 4, AMSTERDAM, 1950. Transactions. Groningen, Hoitsema, 1950. 2 v. 56.09 In844
- 43716 MARTIN RETORTILLO, N. Study of the humus of some Spanish peats. Internatl. Cong. Soil Sci. Trans. 4(2):100. 1950. 56.09 In844
- 43717 MIDDELBURG, H. A. The fourth International Soil Congress at Amsterdam 1950. (In Dutch.) Bergcultures 20:9,11,13,15. Jan. 1, 1951. 22.5 B45 English summary.
- 43718 POLAK, B. Occurrence and fertility of tropical peat soils in Indonesia. Internatl. Cong. Soil Sci. Trans. 4(2):183-185. 1950. 56.09 In844
- 43719 ROCCHETTI, G. Pedological observations on Uruguay. (In Italian.) Riv. di Agr. Subtrop. e Trop. 44: 265-275. Ref. Oct./Dec. 1950. 26 Ag82 English summary.
- Soil Physics**
- 43720 ALBAREDA, J. M., and RODRIGUEZ MUNOZ, C. Surface phenomena in the manifestation of anisotropy in aqueous clay suspensions. Internatl. Cong. Soil Sci. Trans. 4(1):48-50. 1950. 56.09 In844
- 43721 ALBAREDA, J. M., ALEXANDRE, V., and GARCIA VICENTE, J. Variation of the physico-chemical properties of clays with regard to the grain size. Internatl. Cong. Soil Sci. Trans. 4(2):80-82. 1950. 56.09 In844
- 43722 ALEXANDRE, V. Differential thermal analysis of some Spanish clays and kaolins. Internatl. Cong. Soil Sci. Trans. 4(1):105-106. 1950. 56.09 In844
- 43723 BODMAN, G. B., and FIREMAN, M. Changes in soil permeability and exchangeable cation status during flow of different irrigation waters. Internatl. Cong. Soil Sci. Trans. 4(1):397-400. 1950. 56.09 In844
- 43724 BRADFIELD, R. Soil structure. Internatl. Cong. Soil Sci. Trans. 4(2):9-19. 1950. 56.09 In844
- 43725 BREAZEALE, E. L., MCGEORGE, W. T., and BREAZEALE, J. F. Movement of water vapor in soils. Soil Sci. 71:181-185. Mar. 1951. 56.8 So3
- 43726 BRYSSINE, G. Humidité et possibilité de lessivage des sols au Maroc (Rabat). Internatl. Cong. Soil Sci. Trans. 4(1):64-66. 1950. 56.09 In844 English summary.
- 43727 CHEPIL, W. S. An air elutriator for determining the dry aggregate soil structure in relation to erodibility by wind. Soil Sci. 71:197-207. Mar. 1951. 56.8 So3
- 43728 CHILDS, E. C., and GEORGE, N. C. Movement of moisture in unsaturated soils. Internatl. Cong. Soil Sci. Trans. 4(1):60-63. 1950. 56.09 In844
- 43729 DELOFFRE, G. Decline of structure of the soils flooded by salt water in 1944, in the region of Dunkerque. Internatl. Cong. Soil Sci. Trans. 4(1):413-415. 1950. 56.09 In844
- 43730 GRAČANIN, M. To the problem of evaluation of soil structure. Internatl. Cong. Soil Sci. Trans. 4(1): 40-43. 1950. 56.09 In844
- 43731 GRILLOT, G. La jachère et l'humidité des sols au Maroc (Rabat). Internatl. Cong. Soil Sci. Trans. 4(1):68-70. 1950. 56.09 In844 English summary.
- 43732 GUTIÉRREZ RIOS, E., and MARTIN VIVALDI, J. L. Hydration of layer lattice silicates with exchangeable cations. Internatl. Cong. Soil Sci. Trans. 4(2):87-91. 1950. 56.09 In844
- 43733 HOOGHOUTD, S. B. Irreversibly desiccated peat, clayey peat and peaty clay soils; the determination of the degree of reversibility. Internatl. Cong. Soil Sci. Trans. 4(2):31-34. 1950. 56.09 In844
- 43734 HOU, K. C., and HUANG, C. H. Plasticity curves determination, a physico-chemical method of soil analysis. Internatl. Cong. Soil Sci. Trans. 4(1):44-46. 1950. 56.09 In844
- 43735 HOU, K. C., and TAO, C. T. Telling soil characteristics by the use of "plasticity curves." Internatl. Cong. Soil Sci. Trans. 4(1):339-342. 1950. 56.09 In844
- 43736 HOYOS DE CASTRO, A., and RODRIGUEZ, J. Influence of thermal treatment on some physico-chemical properties of bentonite. Internatl. Cong. Soil Sci. Trans. 4(2):75-77. 1950. 56.09 In844
- 43737 LEENHEER, L. DE, and BOODT, M. DE. La dégradation de la structure des polders marins belges, son évaluation et ses causes. Internatl. Cong. Soil Sci. Trans. 4(1):55-59. 1950. 56.09 In844 English summary.
- 43738 LEENHEER, L. DE, and CAESTECKER, K. DE. Influence of rainfall on the crop-production on eight soil types in the old seapolders in Belgium. Internatl. Cong. Soil Sci. Trans. 4(2):47-51. 1950. 56.09 In844
- 43739 PALKIN, V. P. Effect of soil structure on cold resistance and productivity of winter wheat. (In Russian.) Sovet. Agron. 8(12):86-87. Dec. 1950. 20 So84
- 43740 PEERLKAMP, P. K. The influence on soil structure of the "natural organic manuring" by roots and stubbles of crops. Internatl. Cong. Soil Sci. Trans. 4(1):50-54. Ref. 1950. 56.09 In844
- 43741 RAMSAUER, B. Die bodenfeuchteganglinie. Internatl. Cong. Soil Sci. Trans. 4(2):35-37. 1950. 56.09 In844 English summary.
- 43742 RICHARDS, L. A. Experimental demonstration of the hydraulic criterion for zero flow of water in unsaturated soil. Internatl. Cong. Soil Sci. Trans. 4(1): 66-68. 1950. 56.09 In844
- 43743 SCHOFIELD, R. K. Soil moisture and evaporation. Internatl. Cong. Soil Sci. Trans. 4(2):20-28. 1950. 56.09 In844
- 43744 SIGAFOOS, R. S., and HOPKINS, D. M. Frost-heaved tussocks in Massachusetts. Amer. J. Sci. 249:312-317. Ref. Apr. 1951. 470 Am34
- 43745 TEMPLE, K. L. A modified design of the Lees soil percolation apparatus. Soil Sci. 71:209-210. Mar. 1950. 56.8 So3
- 43746 UHLAND, R. E., and O'NEAL, A. M. Soil permeability determinations for use in soil and water conservation. U. S. Soil Conserv. Serv. SCS-TP-101, 36 p. Jan. 1951. 1.96 Ad6Tp
- 43747 VRIES, D. A. DE. Some remarks on gaseous diffusion in soils. Internatl. Cong. Soil Sci. Trans. 4(2):41-43. 1950. 56.09 In844
- 43748 VRIES, D. A. DE. Some remarks on heat transfer by vapour movement in soils. Internatl. Cong. Soil Sci. Trans. 4(2):38-41. 1950. 56.09 In844
- 43749 WALKER, G. F., and MILNE, A. Hydration of vermiculite saturated with various cations. Internatl. Cong. Soil Sci. Trans. 4(2):62-67. Ref. 1950. 56.09 In844
- 43750 WIT, C. T. DE, and ARENS, P. L. Moisture content and density of some clay minerals and some remarks on the hydration pattern of clay. Internatl. Cong. Soil Sci. Trans. 4(2):59-62. 1950. 56.09 In844
- Soil Chemistry and Mineralogy**
- 43751 ASLANDER, A. The availability of phosphates after standard fertilization. Internatl. Cong. Soil Sci. Trans. 4(2):158-163. Ref. 1950. 56.09 In844
- 43752 BAARS, J. K. Manganese deposits in rice fields. Internatl. Cong. Soil Sci. Trans. 4(1):192-195. 1950. 56.09 In844
- 43753 BAZILEVICH, N. I. Types of chemism of natural salt accumulations in Baraba Lowlands. (In Russian.) Akad. Nauk SSSR. Dok. 75:449-452. Nov. 21, 1950. 511 P444A



- 43754 BERG, C. V. D. The influence of salt in the soil on the yield of agricultural crops. Internat. Cong. Soil Sci. Trans. 4(1):411-413. 1950. 56.09 In844
- 43755 BLASCO LOPEZ-RUBIO, F., and RUBIA PACHECO, J. DE LA. Quantitative determination of humic colloids with ammonium hexanitrocerate. Internat. Cong. Soil Sci. Trans. 4(2):104-108. 1950. 56.09 In844
- 43756 BOTTINI, O., and LISANTI, L. Research on the salt soils of the Tavoliere. (In Italian.) Ann. della Sper. Agr. (n.s.):5:233-267. Ref. 1951. 16 An76
- English summary.
- 43757 BRAMAO, L., CADY, J. G., and HENDRICKS, S. B. The determination of halloysite and its use in the study of red soils. Internat. Cong. Soil Sci. Trans. 4(1):313. 1950. 56.09 In844
- 43758 BRINDLEY, G. W. The structure of clay minerals. Internat. Cong. Soil Sci. Trans. 4(1):82-86. Ref. 1950. 56.09 In844
- 43759 BURRIEL, F., and HERNANDO, V. The colorimetric determination of phosphorus in Spanish soils. Internat. Cong. Soil Sci. Trans. 4(2):132. 1950. 56.09 In844
- 43760 BURRIEL, F., and HERNANDO, V. The determination of assimilable phosphorus in Spanish soils. Internat. Cong. Soil Sci. Trans. 4(2):134-135. 1950. 56.09 In844
- 43761 BURRIEL, F., and HERNANDO, V. Extraction of the total phosphorus from Spanish soils. Internat. Cong. Soil Sci. Trans. 4(2):133-134. 1950. 56.09 In844
- 43762 CAILLERE, S., and HENIN, S. Mechanisme d'évolution des minéraux phylliteux. Internat. Cong. Soil Sci. Trans. 4(1):96-98. Ref. 1950. 56.09 In844
- 43763 CAILLERE, S., and HENIN, S. Quelques remarques sur la synthèse des minéraux argileux. Internat. Cong. Soil Sci. Trans. 4(1):86-88. Ref. 1950. 56.09 In844
- 43764 COPPENET, and VOIX, S. Arrière-action des fumures manganées et "manganèse du sol réductible par l'hydroquinone." Acad. d'Agr. de France. Compt. Rend. 37:67-69. Jan.10/17, 1951. 14 P215Bc
- 43765 COURANJOU, A. Soyez vous-même le chimiste des terres de votre plantation d'agrumes. Fruits et Primeurs de l'Afrique du Nord 21:59-60. Feb. 1951. 80 F9482
- 43766 DEKEYSER, W., RIJSEN, A. VAN, and DEWIEST, T. Studies on micaceous and clay minerals I-II. Internat. Cong. Soil Sci. Trans. 4(1):99-101. 1950. 56.09 In844
- 43767 DMITRENKO, P. A., and SHTURMOVA, V. S. Availability of phosphorus to plants in connection with varied times and conditions of fertilizer interaction with the soil. (In Russian.) Akad. Nauk SSSR. Dok. 76:447-450. Ref. Jan.21, 1951. 511 P444A
- 43768 DOWNES, R. G., BECKWITH, R. S., and RAUPACH, M. Studies in the variation of soil reaction. I-III. Austral. J. Agr. Res. 2:60-91. Ref. Jan. 1951. 23 Au783
- I. Field variations at Barooga, N.S.W., by R. G. Downes and R. S. Beckwith; II. Seasonal variations at Barooga, N.S.W., by M. Raupach; III. Variations at the Waite Agricultural Research Institute, by M. Raupach.
- These studies are part of a program to elucidate environmental factors in connection with "toxaemic jaundice" of sheep.
- 43769 DUCHAUFOUR, P. Note sur les types d'humus forestier et leur rapport carbone/azote (C/N). Internat. Cong. Soil Sci. Trans. 4(2):108-111. 1950. 56.09 In844
- English summary.
- 43770 EDELMAN, C. H. The isoelectric formation of lateritic soils. Internat. Cong. Soil Sci. Trans. 4(1):308-310. 1950. 56.09 In844
- 43771 ERIKSSON, E. On the determination of pH in colloidal suspensions. Sweden. Lantbrhögsk. Ann. 17:92-100. 1950. 104 Up6
- 43772 ERIKSSON, E. The water content-ion activity relationship in bentonite gels and soils. Sweden. Lantbrhögsk. Ann. 17:204-210. 1950. 104 Up6
- 43773 FORSLIND, E. Some remarks on the interaction between the exchangeable ions and the adsorbed water layers in montmorillonite. Internat. Cong. Soil Sci. Trans. 4(1):110-113. 1950. 56.09 In844
- 43774 GAMMON, N., JR. Determination of total potassium and sodium in sandy soils by flame photometer. Soil Sci. 71:211-214. Mar. 1951. 56.8 So3
- 43775 GANGULY, A. K. Hydration of exchangeable cations in silicate minerals. Soil Sci. 71:239-244. Mar. 1951. 56.8 So3
- 43776 GAROLA, J. Note sur l'analyse des sols. Défense Agr. de la Beauce et du Perche 48:91. Feb. 24, 1951. 14 D36
- 43777 GISIGER, L. Grundsätzliche fragen zur bestimmung des phosphorsäure- und kalibedürfnisses auf grund der chemischen bodenuntersuchung. Internat. Cong. Soil Sci. Trans. 4(1):208-218. Ref. 1950. 56.09 In844
- English summary.
- 43778 GRIFFITH, G. A. Factors influencing nitrate accumulation in Uganda soil. Empire J. Expt. Agr. 19(73): 1-12. Ref. Jan. 1951. 10 Em7
- 43779 HARDON, H. J. The bases in the clay fraction of Indonesian soils. Internat. Cong. Soil Sci. Trans. 4(1):310-312. 1950. 56.09 In844
- 43780 HASLER, A. Über das verhalten des kupfers im boden. Internat. Cong. Soil Sci. Trans. 4(1):249-251. 1950. 56.09 In844
- 43781 HENDE, A. VAN DEN. La valeur des methodes chimiques pour la recherche du besoin en acide phosphorique des sols belges. Internat. Cong. Soil Sci. Trans. 4(1):218-221. 1950. 56.09 In844
- 43782 HENDRICKS, S. B., and DYAL, R. S. Surface measurement for ethylene glycol retention of clays and its application to potassium fixation. Internat. Cong. Soil Sci. Trans. 4(2):71-72. 1950. 56.09 In844
- 43783 HENIN, S., and TURC, L. Essais de fractionnement des matières organiques du sol. Internat. Cong. Soil Sci. Trans. 4(1):152-154. 1950. 56.09 In844
- English summary.
- 43784 HOYOS DE CASTRO, A. Influence of the potassium fixation on the hydration of montmorillonite. Internat. Cong. Soil Sci. Trans. 4(2):73-74. 1950. 56.09 In844
- 43785 IUSUPOVA, S. New way of montmorillonite formation. (In Russian.) Akad. Nauk SSSR. Dok. 75:445-447. Nov.21, 1950. 511 P444A
- 43786 KAILA, A. On the dependence of the amount of organic phosphorus on the carbon content in soil. Internat. Cong. Soil Sci. Trans. 4(1):191-192. 1950. 56.09 In844
- 43787 KIEL, H. The mineralogical investigation of sands as a method to determine the mineral reserve of soils. Internat. Cong. Soil Sci. Trans. 4(2):193-195. 1950. 56.09 In844
- 43788 LAMARE, F. DE. Quelques aspects de l'utilité de l'analyse des sols. Colon Franç. de Tunisie (ser.7) 60(2139):5-6. Apr.8, 1950. 24 C712
- 43789 LEE, C. K. Exchangeable potassium in lateritic soils of China derived from different parent materials. Internat. Cong. Soil Sci. Trans. 4(1):303-304. 1950. 56.09 In844
- 43790 LEENHEER, L. DE, BOODT, M. DE, and WELVAERT, W. La détermination de la capacité d'échange de la fraction minérale et organique dans les sols des polders marins belges. Internat. Cong. Soil Sci. Trans. 4(1):129-132. 1950. 56.09 In844
- English summary.
- 43791 LEENHEER, L. DE. Mineralogical characterization of the sand-fraction in soil profiles. Internat. Cong. Soil Sci. Trans. 4(2):84-89. 1950. 56.09 In844
- 43792 LEENHEER, L. DE. Practical importance of a medium reserve of alterable minerals (orthoclase) under temperate climate (Belgium). Internat. Cong. Soil Sci. Trans. 4(2):89-91. 1950. 56.09 In844
- 43793 LEHR, J. J. Seasonal variations in the pH value of the soil, as influenced by nitrification. Internat. Cong. Soil Sci. Trans. 4(1):155-157. 1950. 56.09 In844
- 43794 MACEWAN, D. M. C. Solvation of clay minerals in relation to crystal structure: interlamellar adsorption by clay minerals. Internat. Cong. Soil Sci. Trans. 4(1):107-109. Ref. 1950. 56.09 In844
- 43795 MCGEORGE, W. T., and FULLER, W. H. Relation between the Na: Ca ratio in the saturation extract and percentage sodium in the exchange complex. Internat. Cong. Soil Sci. Trans. 4(1):400-403. 1950. 56.09 In844
- 43796 MACKENZIE, R. C. Differential thermal analysis of clay minerals. Internat. Cong. Soil Sci. Trans. 4(2):55-59. Ref. 1950. 56.09 In844
- 43797 MALQUORI, A., and WIKLANDER, L. Influence of alternate wetting and drying on potassium and magnesium fixation and base exchange capacity of synthetic aluminum and iron silicates. Internat. Cong. Soil Sci. Trans. 4(1):141-146. 1950. 56.09 In844
- 43798 MAREL, H. W. VAN DER. The determination of the cationic exchange capacity of the inorganic soil particles. Internat. Cong. Soil Sci. Trans. 4(2):94-97. 1950. 56.09 In844
- 43799 MAREL, H. W. VAN DER. The mineralogical composition of the clay (2μ) separate of the Dutch soils and their cationic exchange capacity. Internat. Cong. Soil Sci. Trans. 4(2):92-94. 1950. 56.09 In844



- 43800 MARSHALL, C. E. The electrochemistry of the clay minerals in relation to pedology. Internatl. Cong. Soil Sci. Trans. 4(1):71-82. Ref. 1950. 56.09 In844
- 43801 MEHLICH, A. Cation exchange-anion exchange ratios of kaolinitic soil colloids. Internatl. Cong. Soil Sci. Trans. 4(1):133-135. 1950. 56.09 In844
- 43802 MENZEL, R. G., and JACKSON, M. L. Sorption of copper from acid systems by kaolinite and montmorillonite. Internatl. Cong. Soil Sci. Trans. 4(1):125-128. 1950. 56.09 In844
- 43803 MIDDELBURG, H. A. Manganese mobilization and fertility of tropical volcanic ash soils. Internatl. Cong. Soil Sci. Trans. 4(2):136-137. 1950. 56.09 In844
- 43804 MITCHELL, R. L. The spectrographic determination of trace elements in rocks, minerals and soils. Mikrochem. Ver. mit Mikrochim. Acta 36/37:1042-1047. Ref. 1951. 384 M58
- 43805 NEWTON, H. P., and TOTH, S. J. Iodine content of some soils and plants of New Jersey. Soil Sci. 71:175-179. Ref. Mar.1951. 56.8 So3
- 43806 NILSSON, P. E. A device for filtering through bacterial filters by centrifugation. Sweden. Lantbrhögsk. Ann. 17:355-357. 1950. 104 Up6
- 43807 OLPHEN, H. VAN. A tentative method for the determination of the base exchange capacity of clays. Internatl. Cong. Soil Sci. Trans. 4(2):97-99. 1950. 56.09 In844
- 43808 PAAUW, V. VAN DER. Plant analysis as a means of evaluation of chemical soil tests. Internatl. Cong. Soil Sci. Trans. 4(1):232-235. 1950. 56.09 In844
- 43809 PENG, C. Y., CHANG, S. W., and HOU, K. C. Nutrients adsorption by soils in relation to soil plasticity. Internatl. Cong. Soil Sci. Trans. 4(1):136-137. 1950. 56.09 In844
- 43810 PEREZ MATEOS, J., and MUÑOZ TABO-ADELA, M. Mineralogical analysis of sediments from a zone of regional metamorphism. Internatl. Cong. Soil Sci. Trans. 4(2):80. 1950. 56.09 In844
- 43811 PLANT, W. The relation of molybdenum deficiency to the acid soil complex. Internatl. Cong. Soil Sci. Trans. 4(2):148-151. 1950. 56.09 In844
- 43812 RAPPE, G. Seasonal variations observed in the nutritive substances of a cultivated sphagnum peat soil. Internatl. Cong. Soil Sci. Trans. 4(1):155-160. 1950. 56.09 In844
- 43813 RICHARDS, L. A. Chemical and physical characteristics of saline and alkali soils of western United States. Internatl. Cong. Soil Sci. Trans. 4(1):378-383. Ref. 1950. 56.09 In844
- 43814 RIPADO, M. B. Saline soils and agriculture. (In Portuguese.) Gaz. do Agr. 2:290-295. Dec.1950. 24 G25
- 43815 RIPADO, M. B. Soil selection. (In Portuguese.) Gaz. do Agr. 2:303,305. Dec.1950. 24 G25
- 43816 ROULET, M. A., and SCHOPFER, W. H. Les vitamines du sol et leur signification. Internatl. Cong. Soil Sci. Trans. 4(1):202-203. 1950. 56.09 In844
- English summary.
- 43817 RUBIA PACHECO, J. DE LA, and BLASCO LOPEZ-RUBIO, F. Rapid determination of total organic matter in soils by cerimetry. Internatl. Cong. Soil Sci. Trans. 4(2):101-104. Ref. 1950. 56.09 In844
- 43818 RUSSELL, E. W., and COX, G. A. The direct determination of ionic activity products or ratios in soils. Internatl. Cong. Soil Sci. Trans. 4(1):138-141. 1950. 56.09 In844
- 43819 RUSSELL, R. S., MARTIN, R. P., and ADAMS, S. N. The problem of radiation damage in fertilizer studies with labelled phosphate. Internatl. Cong. Soil Sci. Trans. 4(2):138-141. 1950. 56.09 In844
- 43820 SCHREVEN, D. A. VAN. Loss of nitrogen from ammonia-containing fertilizers applied to calcareous soils of the Zuiderzee polders. Internatl. Cong. Soil Sci. Trans. 4(1):259-261. 1950. 56.09 In844
- 43821 SCHUFFELEN, A. C. On the cation absorption of plants in relation to the composition of the soil adsorbing complex. Internatl. Cong. Soil Sci. Trans. 4(2):163-165. 1950. 56.09 In844
- 43822 SCHUYLENBORGH, J. VAN. The electrokinetic behaviour of the sesquioxide hydrates and its bearing on the genesis of clay minerals. Internatl. Cong. Soil Sci. Trans. 4(1):89-92. 1950. 56.09 In844
- 43823 SHAWARBI, M. Y. The status of phosphates in saline and alkaline soils with special reference to Egyptian soils. Internatl. Cong. Soil Sci. Trans. 4(2):262-265. 1950. 56.09 In844
- 43824 SOWDEN, F. J., and ATKINSON, H. J. The effect of waste sulphite liquor solids on the chemical and physical properties of soil. Sci. Agr. 31:93-98. Ref. Mar.1951. 7 Sci2
- 43825 TINSLEY, J. The determination of organic carbon in soils by dichromate mixtures. Internatl. Cong. Soil Sci. Trans. 4(1):161-164. Ref. 1950. 56.09 In844
- 43826 U. S. NATIONAL PHOSPHORUS RESEARCH WORK GROUP. Summary of phosphorus research in the United States relating to soils and fertilizers. Washington. 1950. 114 p. 173 N2162
- 43827 VISWANATH, B., and MOORTHY, B. R. The reflectance spectrum of ignited soils as an indication of the mineralogical composition of their clays. Cur. Sci. 20:20-21. Jan.1951. 475 Sci23
- 43828 WIKLANDER, L. Kinetics of phosphate exchange in soils. Sweden. Lantbrhögsk. Ann. 17:407-424. Ref. 1950. 104 Up6
- 43829 WIKLANDER, L., and ALVELID, S. Solubility of arsenate in synthetic systems and soils. Sweden. Lantbrhögsk. Ann. 17:342-354. 1950. 104 In6
- 43830 WILD, A. The effect of neutral salts on the retention of phosphate by clay at various pH values. Internatl. Cong. Soil Sci. Trans. 4(1):146-149. Ref. 1950. 56.09 In844

### Soil Biology

- 43831 AMER, F. M., and BARTHOLOMEW, W. V. Influence of oxygen concentration in soil air on nitrification. Soil Sci. 71:215-219. Ref. Mar.1951. 56.8 So3
- 43832 BARTHOLOMEW, W. V., and CLARK, F. E. Nitrogen transformations in soil in relation to the rhizosphere microflora. Internatl. Cong. Soil Sci. Trans. 4(2):112-113. 1950. 56.09 In844
- 43833 BENETTI, R. T., and SCHIESSER, A. Action of some flavobacteria on benzoic acid and various phenols. Internatl. Cong. Soil Sci. Trans. 4(1):188-190. 1950. 56.09 In844
- 43834 BORNEBUSCH, C. H. Soil fauna and its importance in soil-type formation. Internatl. Cong. Soil Sci. Trans. 4(1):173-184. 1950. 56.09 In844
- 43835 DOEKSEN, J. An electrical method of sampling soil for earthworms. Internatl. Cong. Soil Sci. Trans. 4(2):129-131. 1950. 56.09 In844
- 43836 GEOGHEGAN, M. J. Aggregate formation in soil. Influence of some microbial metabolic products and other substances on aggregation of soil particles. Internatl. Cong. Soil Sci. Trans. 4(1):198-201. 1950. 56.09 In844
- 43837 GERRETSEN, F. C. Microbiological transformation of nitrogen and its influence on nitrogen availability in the soil. Internatl. Cong. Soil Sci. Trans. 4(2):114-117. 1950. 56.09 In844
- 43838 ISAKOVA, A. A., and ANISKINA, Z. N. Microbiological processes in the rhizosphere and bacteriorrhiza of perennial grasses and legumes and methods for managing them. (In Russian.) Sovet. Agron. 8(12):35-43. Dec.1950. 20 So84
- 43839 JENSEN, H. L. A survey of biological nitrogen fixation in relation to the world supply of nitrogen. Internatl. Cong. Soil Sci. Trans. 4(1):165-172. Ref. 1950. 56.09 In844
- 43840 JONES, E. J. Loss of elemental nitrogen from soils under anaerobic conditions. Soil Sci. 71:193-196. Mar.1951. 56.8 So3
- 43841 KÜHNELT, W. Bodenbiologie, mit besonderer Berücksichtigung der tierwelt. Wien, Herold, 1950. 368 p. 56.5 K952
- 43842 LEES, H. Some aspects of the carbon and nitrogen metabolisms of soil. Internatl. Cong. Soil Sci. Trans. 4(1):184-186. 1950. 56.09 In844
- 43843 MEIKLEJOHN, J. The pure culture isolation of Nitrosomonas europaea. Internatl. Cong. Soil Sci. Trans. 4(1):195-197. Ref. 1950. 56.09 In844
- 43844 MULDER, E. G. Effect of liming of an acid peat soil on microbial activity. Internatl. Cong. Soil Sci. Trans. 4(2):117-121. 1950. 56.09 In844
- 43845 MULDER, E. G. Molybdenum in relation to nitrogen fixation of leguminous crops. Internatl. Cong. Soil Sci. Trans. 4(2):124-127. 1950. 56.09 In844
- 43846 PAVLIK, M. The microflora of the rhizosphere of flax seedlings growing in soil both sterile and infested with spores of Fusarium lini Bolley. (In Czech.) Ceskoslov. Akad. Zeměděl. Sborn. 23:198-203. 1950. 19.5 C332C
- English summary.
- 43847 REINAU, E. H. Ertragsbedingende, biotisch-phytogene, kohlenstoffhaltige bodensubstanzen im pflanzenbau. Internatl. Cong. Soil Sci. Trans. 4(2):121-124. Ref. 1950. 56.09 In844
- English summary.
- Significance of CO<sub>2</sub>.



- 43848 RUDAKOV, K. I., and BIRKEL', M. R. The developing plant and humus formation. (In Russian.) *Mikrobiologiya* 19:543-546. Nov./Dec.1950. 448.3 M582  
Effect of proteopctinase bacteria on aggregate structure of soil.
- 43849 RUDAKOV, K. I., and BIRKEL', M. R. Formation of stable soil structure by microorganisms. (In Russian.) *Vsesoyuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 16(1):22-27. Ref. 1951. 20 Akl
- 43850 RUDAKOV, K. I. Nodule bacteria. (In Russian.) *Mikrobiologiya* 19:449-458. Ref. Sept./Oct. 1950. 448.3 M582
- 43851 SCHMIDT, E. L., and STARKEY, R. L. Soil microorganisms and plant growth substances. II. Transformations of certain B-vitamins in soil. *Soil Sci.* 71: 221-231. Ref. Mar.1951. 56.8 So3
- 43852 SKINNER, F. A. The growth of species of *Streptomyces* in soil. *Internatl. Cong. Soil Sci. Trans.* 4(2):127-129. 1950. 56.09 In844
- 43853 TRECCANI, V. Oxidative activity of a soil microorganism. *Internatl. Cong. Soil Sci. Trans.* 4(1): 186-188. Ref. 1950. 56.09 In844
- 43854 VILAS, L., and GONZALEZ, G. Viability of anthracis bacillus spores according to different characteristics of the soil. *Internatl. Cong. Soil Sci. Trans.* 4(1):206-207. 1950. 56.09 In844
- 43855 YANKOVITCH, L. Methode d'analyse physiologique du sol utilisée en Tunisie. *Internatl. Cong. Soil Sci. Trans.* 4(1):224-226. 1950. 56.09 In844
- Soil-Plant-Animal Relationships**
- 43856 BEAR, F. E. Mother Earth; her characteristics directly affect the welfare of your livestock. An expert discusses soil in relation to animal diseases. *Breeder-Stockman* 12(11):23,75,77,79,89-90. Apr.1951. 49 V81
- 43857 BRANDE, J. Nature knows best. *O. A. C. Review* 63:268,270. Feb.1951. 276.8 On8  
Soil-plant-animal relationships.
- 43858 FOURTEEN men in search of a yardstick; a Farmers Weekly "Banbury" on grassland recording. *Farmers Wk. [London]* 34(14):50-51,53,55;(15):50,53. Apr. 6-13,1951. 10 F2226  
Pastures and soil plant-animal relations in Great Britain.
- 43859 GONZALEZ, A. J. Estudio sobre las relaciones entre la industria agropecuaria y el ciclo del nitrógeno. I. Cuba. *Canad.* 10(7):15-18. Mar.1,1951. 49 C89
- 43860 NICOLINI, G. Cows, pastures, and Thomas meal. (In Italian.) *Almanacco Agr.* (1951)62:114-120. 1950. 16 AL6
- 43861 REYNOLDS, E. B., FUDGE, J. F., and JONES, J. M. Supplying phosphorus to range cattle through the fertilization of range land. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1341,7 p. Mar.12,1951. 100 T31P
- 43862 SCARSETH, G. D. Civilization and our health. *Veg. Growers Assoc. Amer. Annu. Rpt.* 1950:78-88. 81 V52  
Soil-plant-animal relations.
- 43863 SOBRERO, L. R. El lugar del hombre en la tierra. *Pampa Argentina* 24(278):12,22-23. Jan./Feb. 1951. 9 P19  
Soil-plant-animal relations.
- 43864 TURNER, J. The land is basic; although noted for fine breeding stock, Graham Farms built success on fertile soil. *Hoards Dairyman* 96:298-299. Apr.10,1951. 44.8 H65  
Soil-animal relations.
- 43865 WINDHAUSEN. Einfluss der düngung auf die qualität der lebensmittel. (Sum.) *Angew. Chem.* 63:98. Feb.21,1951. 384 Z33
- Soil Genesis, Formation, Classification, and Mapping**
- 43866 ALBAREDA, J. M., ALEXANDRE, V., and SANCHEZ CALVO, M. DEL C. Contribution to the study of Spanish slates of the Silurian. *Internatl. Cong. Soil Sci. Trans.* 4(2):78-79. 1950. 56.09 In844
- 43867 ALBAREDA, J. M., and ALVIRA, T. Mediterranean soils of the Spanish Levant and North Africa. *Internatl. Cong. Soil Sci. Trans.* 4(2):165-186. 1950. 56.09 In844
- 43868 ALBAREDA, J. M., and GUTIÉRREZ RIOS, E. Mountainous Spanish soils. *Internatl. Cong. Soil Sci. Trans.* 4(1):288-290. 1950. 56.09 In844
- 43869 ALBAREDA, J. M., BURRIEL, F., and MUNOZ TABOADELA, M. Study of the Andalusian black soils and the reason for their colour. *Internatl. Cong. Soil Sci. Trans.* 4(2):186-187. 1950. 56.09 In844
- 43870 BONNET, J. A. Latosols of Puerto Rico. *Internatl. Cong. Soil Sci. Trans.* 4(1):281-285. 1950. 56.09 In844
- 43871 BONNET, J. A., and SULSONA, P. T. Soil studies in Lajas Valley. *P. R. Agr. Expt. Sta. B.* 86,64 p. Aug.1950. 100 P83
- 43872 BONNET, J. A., and LUGO LOPEZ, M. A. Soil studies in the projected Coamo irrigation area. *P. R. Agr. Expt. Sta. B.* 88,59 p. Ref. Sept.1950. 100 P83
- 43873 BRADLEY, W. F. Interstratified growths in clays and clay-like minerals. *Internatl. Cong. Soil Sci. Trans.* 4(1):101-105. 1950. 56.09 In844
- 43874 CARLSON, N. K. On Kalaupapa, the land, too, finds a cure. *Soil Conserv.* 16:228-233,239. May 1951. 1.6 So3S  
Land-capability inventory and conservation plan for Kalaupapa peninsula, Territory of Hawaii.
- 43875 COSTA, J. V. B. DA. Land classification for land use planning by the Junta de Colonização Interna-Portugal. *Internatl. Cong. Soil Sci. Trans.* 4(1):367-369. 1950. 56.09 In844
- 43876 EKSTROM, G. Soil classification in Scandinavia-Finland, especially in Sweden. *Internatl. Cong. Soil Sci. Trans.* 4(2):211-215. 1950. 56.09 In844
- 43877 ELGABALY, M. M. Preliminary survey of the saline and alkaline soils of Egypt. *Internatl. Cong. Soil Sci. Trans.* 4(2):247-250. 1950. 56.09 In844
- 43878 FITZPATRICK, E. G., and others. Soil survey, Woods County, Oklahoma. *U. S. Bur. Plant Indus., Soils, & Agr. Engin. Soil Survey. Ser.* 1939(7),107 p. Oct.1950. 1 So32F  
O. E. Stout, W. W. Lytle, and D. H. McMahan, joint authors.
- 43879 FREI, E. Genesis of various types of soil structure. *Internatl. Cong. Soil Sci. Trans.* 4(1):46-48. 1950. 56.09 In844
- 43880 GAUCHER, G. La cartographie des sols en Algérie. *Rev. Agr. de l'Afrique du Nord* 48:967-970. Dec.29,1950. 80 R326
- 43881 GEE, J. C. DE. Preliminary oxidation potential determinations in a "sawah" profile near Bogor (Java). *Internatl. Cong. Soil Sci. Trans.* 4(1):300-303. 1950. 56.09 In844
- 43882 GEZE, B., and SERVAT, E. Sur les sols salins d'origine continentale de la plaine languedocienne. *Internatl. Cong. Soil Sci. Trans.* 4(1):394-396. 1950. 56.09 In844
- 43883 GRANGE, L. I., and SMALLFIELD, P. W. Land classification, New Zealand. *Internatl. Cong. Soil Sci. Trans.* 4(2):215-218. 1950. 56.09 In844
- 43884 GREENE, H. So-called irreversible laterisation. *Internatl. Cong. Soil Sci. Trans.* 4(2):175-177. Ref. 1950. 56.09 In844
- 43885 HOCKENSMITH, R. D. Classifying land according to its capabilities. *Internatl. Cong. Soil Sci. Trans.* 4(1):342-345. 1950. 56.09 In844
- 43886 HORNBERG, P. The marshes at Svartnes and Smeiror in Vardø Parish, Finnmark Province. (In Norwegian.) *Norske Myrselsk. Meddel.* 49:17-29. Feb.1951. 11 N813
- 43887 HOVDE, O. The marshes in Bolsøy Parish. (In Norwegian.) *Norske Myrselsk. Meddel.* 48:147-159. Dec.1950. 11 N813
- 43888 INGHELBRECHT, C. Etude pédologique des sols du Kivu. (In Flemish.) Belgium. *Min. des Colon. B. Agr. du Congo Belge* 42:3-12. Mar.1951. 24 K83  
French summary.
- 43889 JEWITT, T. N. Goz soils of the Anglo-Egyptian Sudan. *Internatl. Cong. Soil Sci. Trans.* 4(1):285-288. 1950. 56.09 In844
- 43890 KAVIC, L. Beitrag zur kenntniss der podsolböden Nordwest-Bosniens. (In Croatian.) *Biol. Inst. God.* 2:67-102. Ref. 1949, pub.1950. 442.9 Sa73  
German summary.
- 43891 KELLOGG, C. E. Tropical soils. *Internatl. Cong. Soil Sci. Trans.* 4(1):266-276. 1950. 56.09 In844
- 43892 KOENIGS, F. F. R. A "sawah" profile near Bogor (Java). *Internatl. Cong. Soil Sci. Trans.* 4(1):297-300. 1950. 56.09 In844
- 43893 KUBIENA, W. L. Zur mikromorphologie der braunen und roten tropenböden. *Internatl. Cong. Soil Sci. Trans.* 4(1):304-307. 1950. 56.09 In844  
English summary.
- 43894 KUIPERS, S. F. Gley phenomena in marine clay soils with a saltish subsoil. *Internatl. Cong. Soil Sci. Trans.* 4(2):245-247. 1950. 56.09 In844



- 43895 LEENHEER, L. DE, and WELVAERT, W. La caractérisation des profils pédologiques comme élément de classification des sols des polders marins belges. Internatl. Cong. Soil Sci. Trans. 4(2):240-244. 1950. 56.09 In844  
English summary.
- 43896 LIERE, W. J. VAN. Land-classification of Dutch soils, especially in behalf of horticulture. Internatl. Cong. Soil Sci. Trans. 4(2):207-210. 1950. 56.09 In844
- 43897 LIERE, W. J. VAN. A soil survey of the Adana Delta (Turkey). Internatl. Cong. Soil Sci. Trans. 4(2):187-190. 1950. 56.09 In844
- 43898 MANTELET, C. Les plaines maritimes du nord de la France. Internatl. Cong. Soil Sci. Trans. 4(2):219-221. Ref. 1950. 56.09 In844  
English summary.
- 43899 MITCHELL, J. Productivity ratings and their importance in the soil survey report. Internatl. Cong. Soil Sci. Trans. 4(1):356-360. 1950. 56.09 In844
- 43900 PRINCIPI, P. The agricultural soils of Latium. XIV. (In Italian.) Italia Agr. 88:86-101. Feb. 1951. 16 It1
- 43901 RIOS, E. G., and GONZALEZ GARCIA, F. Genesis of the bentonite from Tidinit (Spanish Morocco). Internatl. Cong. Soil Sci. Trans. 4(1):92-96. 1950. 56.09 In844
- 43902 SIMONSON, R. W. Description of mottling in soils. Soil Sci. 71:187-192. Mar. 1951. 56.8 So3
- 43903 SMITH, R. The classification of virgin lands from soil surveys, south-western Australia. Internatl. Cong. Soil Sci. Trans. 4(1):370-373. 1950. 56.09 In844
- 43904 SMITH, R. Solonetz soils of the subhumid zone of south-western Australia. Internatl. Cong. Soil Sci. Trans. 4(1):386-389. 1950. 56.09 In844
- 43905 SOTNIKOV, V. P. Origin of the forest, Russian prairie soils. n.d. 2 p. Translation 6440  
Translated from Sovetskaya Agronomiya 11:75-86. 1949.
- 43906 STAMP, L. D. The classification and use and misuse of land. Internatl. Cong. Soil Sci. Trans. 4(1):31-39. 1950. 56.09 In844
- 43907 TAYLOR, J. K. The classification of irrigation soils with reference to land use. Internatl. Cong. Soil Sci. Trans. 4(2):228-230. 1950. 56.09 In844
- 43908 TAYLOR, N. H., DIXON, J. K., and SEELYE, F. T. The soils of North Auckland Peninsula, New Zealand. Internatl. Cong. Soil Sci. Trans. 4(1):293-296. 1950. 56.09 In844
- 43909 TEAKLE, L. J. H. An interpretation of some "solonised" (alkali) soils in south-western Western Australia. Internatl. Cong. Soil Sci. Trans. 4(1):389-394. 1950. 56.09 In844
- 43910 VAN DER MERWE, C. R. Ground-water lateritic soils ("ouklip" soils). Internatl. Cong. Soil Sci. Trans. 4(2):172-174. 1950. 56.09 In844
- 43911 VAN DER MERWE, C. R. Red and yellow earths. Internatl. Cong. Soil Sci. Trans. 4(2):169-172. 1950. 56.09 In844
- 43912 VAN DER MERWE, C. R. Sub-tropical black clays. Internatl. Cong. Soil Sci. Trans. 4(2):191-193. 1950. 56.09 In844
- 43913 VAN DER MERWE, C. R. Vlei soils. Internatl. Cong. Soil Sci. Trans. 4(2):178-180. 1950. 56.09 In844
- 43914 VISSER, W. C. The objective of soil description by application of single values. Internatl. Cong. Soil Sci. Trans. 4(2):166-168. 1950. 56.09 In844
- 43915 VISSER, W. C. The quantitative basis of the evaluation of soil productivity. Internatl. Cong. Soil Sci. Trans. 4(1):373-377. 1950. 56.09 In844
- 43916 VISSER, W. C. The trend of the development of land evaluation in the future. Internatl. Cong. Soil Sci. Trans. 4(1):334-336. 1950. 56.09 In844
- 43917 VOORT, M. VAN DER. The lateritic soils of Indonesia. Internatl. Cong. Soil Sci. Trans. 4(1):277-281. Ref. 1950. 56.09 In844
- 43918 WAEGEMANS, G. Introduction à l'étude de la latéritisation et des latérites du Centre Africain. Belgium. Min. des Colon. B. Agr. du Congo Belge 42:13-56. Mar. 1951. 24 K83
- 43919 WIKLANDER, L., and others. Studies on Gytja soils. II-III. Sweden. Lantbrhögsk. Ann. 17:24-36, 425-440 1950. 104 Up6  
II, by G. Hallgren, N. Brink, and E. Jonsson; III, by G. Hallgren and E. Jonsson.

## SOIL MANAGEMENT

- 43920 ARNOLD, K., and others. Use of fire in land clearing; controlled burns by planned application and confinement of fire to preselected wildland area a tool of many uses. Calif. Agr. [Calif. Sta.] 5(3):9-11. (To be cont.) Mar. 1951. 100 C12Cag  
L. T. Burcham, R. L. Fenner, and R. F. Grah, joint authors.
- 43921 ARNOLD, K., and others. Use of fire in land clearing; selection and preparation of the area to be cleared by planned application and confinement of fire important. Calif. Agr. [Calif. Sta.] 3(4):7-8, 13, 15. (To be cont.) Apr. 1951. 100 C12Cag  
L. T. Burcham, R. L. Fenner, and R. F. Grah, joint authors.
- 43922 CALLAGHAN, A. R. Progress in land development (non-irrigation) 1950. So. Austral. Dept. Agr. J. 54: 223-235. Dec. 1950. 23 So84
- 43923 DELOFFRE, G. The leaching of chlorides in the regions of Dunkerque and Le Verdon flooded with salt water in 1944. Internatl. Cong. Soil Sci. Trans. 4(1):408-411. 1950. 56.09 In844
- 43924 DOUGALL, H. W. Factors concerned in the reclamation, poldering, and fertility of certain riverain soils in Sierra Leone. Internatl. Cong. Soil Sci. Trans. 4(2):250-253. 1950. 56.09 In844
- 43925 DUCHAUFOUR, P. La dégradation des sols sur les versants chauds dans les Basses-Vosges. Rev. Forest. Franc. 1951:103-109. Feb. 1951. 99.8 R329
- 43926 DUFFY, D. The organic farm in a materialist economy. Anthroposophical Agr. Found. Notes & Corresp. (n.s.) 1:14-18. Spring 1950. 10 An8
- 43927 FRANK, B. Watershed forestry to safeguard our soil, water, and timber. U. S. Forest Serv. Cent. States Forest Expt. Sta. Tech. Paper 119, 7 p. Mar. 1951. 1.9622 C3T222
- 43928 HAAN, J. H. DE. Progress in shifting cultivation in Indonesia. Internatl. Cong. Soil Sci. Trans. 4(1):314-320. 1950. 56.09 In844
- 43929 JEWITT, T. N. Shifting cultivation on the clay plains of the central Sudan. Internatl. Cong. Soil Sci. Trans. 4(1):331-333. 1950. 56.09 In844
- 43930 ONGE, L. J. A. DE, and SMITS, H. Control of damage caused by drought on permanent pastures with a soil profile showing a shallow layer of clay underlain by peat. Internatl. Cong. Soil Sci. Trans. 4(2):44-46. 1950. 56.09 In844
- 43931 KIVINEN, E. Sulphate soils and their management in Finland. Internatl. Cong. Soil Sci. Trans. 4(2): 259-262. 1950. 56.09 In844
- 43932 MANN, D. H. Woodbury builds soil by feeding cattle. Utah Farmer 71:263, 281. Apr. 5, 1951. 6 D45  
Returning the manure to the soil.
- 43933 NORTON, E. A. Watershed protection and increased production through soil and water conservation. Washington, U. S. Soil Conserv. Serv., 1951. 9 p. 1.96 Su7N  
Address at annual meeting of the Mississippi Valley Association, Feb. 13, 1951, St. Louis.
- 43934 NYE, P. H. The relation between nitrogen responses, previous soil treatment and the carbon/nitrogen ratio in soils of Gold Coast Savannah areas. Internatl. Cong. Soil Sci. Trans. 4(1):246-249. 1950. 56.09 In844
- 43935 PASTORINI, F. M. Integration of reclamation in the Piedmont and Liguria mountain arch. (In Italian.) Cron. Econ. 95/96:29-31. Dec. 15/30, 1950. 280.8 C882
- 43936 REPP, G. The cultivation of rice ameliorates salty land. Food & Agr. 3:203-205. Oct./Dec. 1950. 389.8 F7326
- 43937 SHELLEY, R. W. Heavy soils for wheat growing; management in central western districts. Agr. Gaz. N. S. Wales 62:11-15. Jan. 1, 1951. 23 N472
- 43938 STEYTLER, R. VAN R. Sick soil along the south coast. (In Afrikaans.) Landman [Monthly] 35:5-6. Jan. 1951. 24 L234
- 43939 TABOR, P. Soil conserving plants for various soil fertility levels in the Southeastern States. Washington? U. S. Soil Conserv. Serv., 1950. 5 p. 1.9602 T11  
Paper presented before the Soil Conservation Section, American Society of Agronomy, Cincinnati, Nov. 1, 1950.
- 43940 TRETHEWEY, L. P. Soil fertility. So. Austral. Dept. Agr. J. 54:204-205. Nov. 1950. 23 So84  
Soil management.



- 43941 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Geary County, Kansas, by R. W. Eikleberry, C. L. Fly, and H. E. Myers. Manhattan, 1951. 25 p. 1.96 L22Ph
- Kansas Agricultural Experiment Station cooperating.
- 43942 WEIDEMANN, A. G., and MILLAR, C. E. Results from long-time field experiments on Hillsdale soil. Mich. Agr. Expt. Sta. Spec. B. 366, 53 p. Jan. 1951. 100 M58S
- Fertilizer and manure application, cropping systems, green manuring, and tillage practices.
- 43943 WESTERHOF, J. J. Restoration of the structure of inundated areas in the Netherlands. Internatl. Cong. Soil Sci. Trans. 4(1):415-418. 1950. 56.09 In844
- 43944 WILLIAMSON, T. W. The reclamation of marginal chalk lands. Bath & West & South. Co. Soc. Pam. 17, 18 p. Jan. 1951. 10 B32P
- 43945 ZAPLETAL, A., and SIMEK, M. Une contribution aux recherches géonomiques et aux tâches de recultivation de Moravie de sud. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 23:175-180. 1950. 19.5 C332C
- French summary.
- Soil research and management.
- Soil Fertility
- 43946 AALTONEN, V. T. Die blattanalyse als bonittierungsgrundlage des waldbodens. Internatl. Cong. Soil Sci. Trans. 4(1):229-231. 1950. 56.09 In844
- English summary.
- 43947 ABLEITER, J. K., and BARNES, C. P. Soil productivity ratings. Internatl. Cong. Soil Sci. Trans. 4(1):360-364. 1950. 56.09 In844
- 43948 ADER, F. Nährt die reben, keltert den wein! Weinbau 6:73-74. Feb. 18, 1951. 390.8 W432
- Chiefly fertilizing of grapes.
- 43949 ALBERT, A. R. Six long strides to better sandy soils. 1. Grow more legumes. Wis. Agr. Col. Ext. Spec. C., 2 p. Jan. 1951. 275.29 W75S
- 43950 ALBERT, A. R. Six long strides to better sandy soils. 2. Lime the soil as needed. Wis. Agr. Col. Ext. Spec. C., 2 p. n.d. 275.29 W75S
- 43951 ALBERTA. PROVINCIAL ADVISORY FERTILIZER COMMITTEE. Fertilizers in Alberta. Alberta. Dept. Agr. Ext. Serv. C. 5, rev., 15 p. Jan. 1951. 275.29 AL122
- 43952 ALLEN, E. F. Padi manurial and cultural trials in the 1949-50 season. Malayan Agr. J. 34:13-26. Jan. 1951. 22.5 F312
- 43953 AMSTEIN, W. C. Fertilizer will solve many a garden problem. Kans. Farmer 88(5):7. Mar. 3, 1951. 6 K13
- 43954 APPLETON, L. R. Retaining fertility of irrigated soils important to farmer. N. Mex. Stockman 16:60. Jan. 1951. 49 N462
- 43955 ASHTON, L. S. Beets, good soil insures an early harvest. Org. Gard. 18(4):22-23. Apr. 1951. 56.8 Or3
- 43956 ÅSLANDER, A. Some new aspects of liming. Internatl. Cong. Soil Sci. Trans. 4(1):243-246. 1950. 56.09 In844
- 43957 ATKINSON, H. J., TURNER, R. C., and MACLEAN, A. J. Analysis of plants for potassium in soil fertility studies. Internatl. Cong. Soil Sci. Trans. 4(1):226-228. 1950. 56.09 In844
- 43958 BAUR, K. Fertilizers for bulbs or a squirt in the crystal ball. Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:16-18. 1950. 81 N817
- 43959 BERENDES, P. Wozu die misch- und voll-dünger? Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:395. Mar. 15, 1951. 18 L2346
- 43960 BERGER, K. C., and BEERS, Z. H. Nitrogen. Successful Farming 49(4):166-168. Apr. 1951. 6 Su12
- Effects on plants.
- 43961 BERGER, K. C. Soils and fertilizers for canning crops. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:142-157. 81 V52
- 43962 BLEICHERT, H. VON. Superphosphat als grünländung? Deut. Landwirt. Presse 74:35. Feb. 3, 1951. 18 D482
- 43963 BORDAS, J. La mise en culture des sols salins de Camargue et l'extension de la riziculture française. Internatl. Cong. Soil Sci. Trans. 4(2):253-259. Ref. 1950. 56.09 In844
- 43964 BOULD, C. The influence of cultural practices on the nutrient uptake of apples. Internatl. Cong. Soil Sci. Trans. 4(1):262-265. 1950. 56.09 In844
- 43965 BREDOW-STECHOW, VON. Wann gründung unterpflügen? Neue Mitt. f. die Landwirt. 6:19. Jan. 13, 1951. 18 N39
- Germany.
- 43966 BRÜGEL, W. Handelsdünger und betriebserfolg Bauern Ztg. 4(7):8-9. Feb. 16, 1951. 18 B324
- Germany.
- 43967 BURRIEL, F., and ALEXANDRE, V. Spanish soils for rice cultivation. Internatl. Cong. Soil Sci. Trans. 4(2):82-83. 1950. 56.09 In844
- 43968 CALZADA B., J. Efecto del abonamiento nitrogenado en los cultivos de papas en Junín y Arequipa. Vida Agr. [Lima] 28(328):15, 17-18. Jan. 1951. 9.8 V66
- 43969 CAMPBELL, J. A. Anhydrous ammonia as a source of nitrogen for cabbage, tomatoes, and beans. Amer. Soc. Hort. Sci. Proc. 56:253-256. Dec. 1950. 81 Sol2
- 43970 CARDONNE, P. Sur l'emploi des engrais en couverture. Tribune Agr. 44(798):1. Feb. 1, 1951. 24 T732
- 43971 CARDWELL, L. Growing lettuce on new soil. Grower [London] 35:715, 717, 719. Apr. 7, 1951. 286.83 M34
- 43972 CARLIER, L. La fumure azotée. Défense Agr. de la Beauce et du Perche 48:93. Feb. 24, 1951. 14 D36
- 43973 CHAFFIN, W., and WOODWARD, R. O. The use of fertilizer in Oklahoma. Okla. Agr. Col. Ext. C. 553, 16 p. n.d. 275.29 OK41C
- 43974 CHAPMAN, H. D., and FULLMER, F. The potassium and phosphorus question. Calif. Citrog. 36:226, 238-239. (Concl.) Ref. Apr. 1951. 80 C125
- 43975 CHAPMAN, H. D. Reasons for the high nitrogen requirement of citrus in California. Calif. Citrog. 36:223, 250-253. Apr. 1951. 80 C125
- 43976 CHATEL, C. Pour bien fumer vos arbres fruitiers. Réveil Agr. 60:37. Feb. 1, 1951. 14 R322
- 43977 CHILDS, W. H. Greenhouse fertilization of blueberry hybrids grown in shredded sphagnum. Amer. Soc. Hort. Sci. Proc. 56:23-26. Dec. 1950. 81 Sol2
- 43978 CLARKE, G. R. Productivity ratings. Internatl. Cong. Soil Sci. Trans. 4(1):345-348. 1950. 56.09 In844
- 43979 COSTA-RODRIGUES, L. Note on the fertilizing of olives. (In Portuguese.) Vida Agr. [Lisboa] 13(81):6. Jan./Feb. 1951. 15.5 V66
- 43980 COUDERC, V. Influence de l'état du sol, sur la dégenérescence de la vigne. Terre d'Oc 33:94-95. Mar. 1951. 14 Ar5
- 43981 CURCIO, M. Fertilizing tobacco. 6. (In Italian.) Tabacco 55(618):26-34. Jan. 1951. 69.8 T115
- 43982 DAVIS, J. F., CUMINGS, G. A., and HANSEN, C. M. The effect of fertilizer placement on the yield of onions grown on an organic soil. Mich. Agr. Expt. Sta. Q. B. 33:249-256. Feb. 1951. 100 M58S
- 43983 DÉRIÈRE, M. Utilisation des radioisotopes dans l'étude des engrais et dans les techniques agricoles. Indus. Chim. 38:33-36. Ref. Feb. 1951. 383 In2
- 43984 DŪZHEV, P. Selection of soils for laying out vineyards. (In Russian.) In Rubin, S. M., ed. Vinograd v severnykh rayonakh SSSR, p. 44-60. Moskva, Moskovskiy Rabochil, 1950. 95.4 R82
- 43985 DROSDOFF, M., and LAGASSE, F. S. The effect of some magnesium and calcium fertilizers in a magnesium deficient bearing tung orchard. Amer. Soc. Hort. Sci. Proc. 56:5-11. Dec. 1950. 81 Sol2
- 43986 DUCET, G. Utilisation rationnelle des engrais. Paris, La Bibliothèque Française, 1950. 169 p. (Élevage et Culture) 57 D85
- 43987 ELEAZER, J. M. It's poor economy to skimp on sidedressing for cotton. Victory Farm Forum 41:11. Mar. 1951. 281.8 F226
- 43988 ENGELS, O. Der boden und das wachstum der reben. Weinbau 6:79-80. Feb. 18, 1951. 390.8 W432
- 43989 ERNEST, E. Effect of lime on the different crops in the rotation and in relation to the year of the liming. (In Swedish.) Lantmannen 35:198-199. Mar. 10, 1951. 11 L234
- 43990 ERTEL, H. Kalkung und humusbildung. Deut. Landwirt. Presse 74:31-32. Feb. 3, 1951. 18 D482
- 43991 ESKEW, E. B. Sidedressing corn with nitrogen increases yields. Victory Farm Forum 41:9. Mar. 1951. 281.8 F226
- 43992 FATH, H. Erhaltung der alten bodenkraft. Neue Mitt. f. die Landwirt. 6:69. Feb. 3, 1951. 18 N39
- Use of fertilizers, manures, and composts.



- 43993 FERBER, H. Nitrogen and plant nutrition. (In Hebrew.) Hassadeh 31:197-198. Jan.1951. 26 H27
- 43994 FORSEE, W. T., JR., and HOFFMAN, J. C. The phosphate and potash requirements of snap beans on the organic soils of the Florida Everglades. Amer. Soc. Hort. Sci. Proc. 56:261-265. Dec.1950. 81 So12
- 43995 FOURGEAUD, J. Quelle fumure appliquer en couverture sur les blés? Défense Agr. de la Beauce et du Perche 48:116-117. Mar.10,1951. 14 D36
- 43996 FRITZSCHE, R. Die düngung der obstbäume. Schweiz. Z. f. Obst- u. Weinbau 60:89-96. Mar.10,1951. 80 Sch9
- 43997 GOEDEWAAGEN, M. A. J., and SCHUURMAN, J. J. Root production by agricultural crops on arable land and on grassland as a source of organic matter in the soil. Internatl. Cong. Soil Sci. Trans. 4(2):28-31. 1950. 56.09 In844
- 43998 GREVE, W. Über die neueren phosphorsäure-düngemittel. Landwirtsch. Weser-Ems 98:183-184. Mar.1, 1951. 18 L2345
- 43999 GVATI, H. The use of chemical fertilizer in granular form. (In Hebrew.) Hassadeh 31:195-196. Jan. 1951. 26 H27
- 44000 HALL, T. D., MEREDITH, D. B. D., and ALTONA, R. E. The agriculture of the Union of South Africa with reference to major crops and fertilizer usage. (Sum.) So. African J. Sci. 47:213-214. Feb.1951. 515 So84
- 44001 HALL, T. D., MEREDITH, D., and ALTONA, R. E. Fertilizers and crop production. So. African Sugar J. 35:75,77,79,83,85. Feb.1951. 65.8 So8
- 44002 HALLMAN, H. W. Soil fertility is a banker's business. Bank News 51(19):17-18. Apr.15,1951. 284.8 B224
- 44003 HANSEN, H. H. Fertilizer utilization. (In Danish.) Dansk Landbr. 70:93-94. Feb.22,1951. 280.28 V91
- 44004 HAUN, T. H. How to add humus to soil. New Agr. 33(5):12-13,15. Feb.1951. 66.8 Su32
- 44005 HENDRICKS, S. B., and DEAN, L. A. Use of P<sub>32</sub> in measurement of fertilizer effectiveness under field conditions. Internatl. Cong. Soil Sci. Trans. 4(1): 221-223. 1950. 56.09 In844
- 44006 HIGAZI, I. A. Nitrogen boosts Egyptian crop. Cotton Trade J. Internatl. Ed. 31(10):66,213. Mar.9,1951. 72.8 C82141
- 44007 HITCHINS, P. E. N. Can over-manuring cause bad crops? Fruit & Prod. 5(8):7-8. Dec.1950/Jan.1951. 80 F9427
- 44008 HUGHES, G. P., and EVANS, T. A. Response of an established sheep ley to dressings of sulphate of ammonia. I. Yields and botanical composition of herbage cut for silage and for hay. Empire J. Expt. Agr. 19(73):55-64. Jan.1951. 10 Em7
- 44009 IARUSOV, S. S., KEVORKOV, A. P., and SOKOLOVA, M. F. Application of small dosages of lime and superphosphate to perennial grasses and legumes on acid soils. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(12):25-29. 1950. 20 Ak1
- 44010 JACKSON, T. L. Gas-injected nitrogen boosted wheat yields most in several eastern Washington trials last year in comparison with other nitrogen fertilizers. Idaho Farmer 69:200,226. Mar.15,1951. 6 G282
- 44011 JACOB, A. Forstdüngung und meliorationen. Forstwirtschaft. Holzwirt. 4:334-336. Nov.1/15,1950. 99.8 F7793
- 44012 JOGLAR-RODRIGUEZ, F. Por qué algunos suelos necesitan cal. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Almanaque Agr. de la Repub. Dominicana 1951:78-79. 1950? 8 D714
- 44013 JOHNSON, A. T. Roses for light soils. Gard. Illus. 68:99. Apr.1951. 80 G169
- 44014 JUSCAFRESA, B. Los abonos de la vña. Ceres [Valladolid] 16(176):13,15. Feb.1,1951. 15 C33
- 44015 KAILA, A. Superfosfaatin Käytöstä karjantalossa. Use of superphosphate with farm manure. Finland. Maatalouden Keskusvaliokunta. Valtion Maatalouskoet. Julkaisu. 134,35 p. Ref. 1950. 20 F495
- English summary.
- 44016 KLINKOVITZKY, S. Top fertilizer for vegetables. (In Hebrew.) Hassadeh 31:158-159. Jan.1951. 26 H27
- 44017 KLINTWORTH, H. Good humus not possible in S. A. (In Afrikaans.) Landbouweekblad 32(1646):10. Jan. 31,1951. 24 L232
- 44018 KNIEF. Düngungsversuchsergebnisse bei hafer. Neue Mitt. f. die Landwirt. 6:182. Mar.24,1951. 18 N39
- 44019 KRONEBACH, A. Die stickstoffdüngung im Weinbau. Weinbau 6:73. Feb.18,1951. 390.8 W432
- 44020 KUNKEL, R., GARDNER, R., and BINKLEY, A. M. Fertilization of Red McClure potatoes in the San Luis Valley of Colorado. Colo. Agr. Expt. Sta. Tech. B. 43,30 p. Jan.1951. 100 C718
- 44021 KURTZE, F. Den humuskreislauf schliessen! Neue Mitt. f. die Landwirt. 6:201. Mar.31,1951. 18 N39
- Fertilizers.
- 44022 KUZNIAR, K. New methods of determining a forest soil's activity. (In Polish.) Sylwan 94(3):49-57. 1950. 99.8 Sy52
- English summary.
- 44023 LAGOS U., J. A. El mejoramiento de los suelos. Agr. Costarricense 9:4,6. Jan.1951. 8 Ag895
- Includes fertilizing and drainage.
- 44024 LEENHEER, L. DE, and SIMON, M. Influence of soil type on the production of sugar-beets and sugar. Internatl. Cong. Soil Sci. Trans. 4(2):222-228. 1950. 56.09 In844
- 44025 LEENHEER, L. DE, and CAESTECKER, K. DE. Les récoltes expérimentales comme indice de fertilité; son application aux polders marins belges. Internatl. Cong. Soil Sci. Trans. 4(1):352-356. 1950. 56.09 In844
- English summary.
- 44026 LEENHEER, L. DE, and others. Relation of soil types to the grass-flora in meadows of the Belgian sea polders. Internatl. Cong. Soil Sci. Trans. 4(2):230-236. 1950. 56.09 In844
- K. de Caestecker, H. Reyntens, and A. Andries, joint authors.
- 44027 LEENHEER, L. DE, and CAESTECKER, K. DE. Reliability of a quick field method to determine the productivity of different soil types for sugar-beets. Internatl. Cong. Soil Sci. Trans. 4(2):237-240. 1950. 56.09 In844
- 44028 LINSLEY, C. M. Potassium plays a big part for a sound plant food program that means good crops, you need potassium as well as lime and phosphate. Ill. Agr. Assoc. Rec. 29(2):12-13,29. Feb.1951. 6 IL62
- 44029 LONG, O. H., and HAZLEWOOD, B. P. Fertilizer experiments with cotton. Tenn. Agr. Expt. Sta. B. 220,20 p. Mar.1951. 100 T255
- 44030 LORENZ, O. A. Placement of liquid and dry fertilizers. Agr. Chem. 6(4):53,114-115. Apr.1951. 381 Ag8
- 44031 MATSUMOTO, G. Dojo hiryo soten [Handbook of soil and fertilizer]. Tokyo, Asakura-Shoten, 1950. 414 p. 57 M422
- 44032 MEITH, H. C. Progress report of Tulare County citrus fertilization plots. Calif. Citrog. 36:242-243. Apr.1951. 80 C125
- 44033 MELLO, E. M. DE. The soil "loan" to the farmer. (In Portuguese.) Seleç. Agr. 6(57):25-26. Jan. 1951. 9.2 Se4
- Soil fertility and fertilizers in Brazil.
- 44034 MELSHEIMER, H. Die humusstabilisierung als düngungsproblem. Neue Mitt. f. die Landwirt. 6:58-60. Jan.27,1951. 18 N39
- 44035 MEYER, W. Tiefenwanderung von kalkgaben auf saurem boden. Deut. Landwirt. Presse 74:48,61-62. Feb.17-Mar.3,1951. 18 D482
- 44036 MONNIER, C., RICHARD, H., and DAUJAT, A. La fumure du blé. Cahiers des Ingén. Agron. 6:40-43. Fourth Q.1950. 14 C112
- 44037 MORELL, M. Materia orgánica. Rev. del Café 6(8):7. Jan.1951. 8 R3295
- 44038 MOTTA, F. S. DA. Relation between yield and fertilizers in rice culture in the State of Rio Grande do Sul. (In Portuguese.) Lav. Arroz. 5(49):17-19. Jan.1951. 59.8 L39
- 44039 MYERS, H. E., and SMITH, F. W. Fertilizer recommendations for Kansas. Kans. Agr. Expt. Sta. C. 264,24 p. Sept.1950. 100 K135
- 44040 NEW YORK STATE COLLEGE OF AGRICULTURE AND HOME ECONOMICS. DEPT. OF AGRONOMY. Fertilizers for field crops, 1951. N. Y. Agr. Col. Dept. Agron. Mimeo. 901,4 p. Nov.10,1950. 276 C813
- 44041 NIENABER, H. Nachdenkliches zum dünger-verbrauch. Neue Mitt. f. die Landwirt. 6:183. Mar.24, 1951. 18 N39
- Germany.



- 44042 NIESCHLAG. Lösung der humusfrage entscheidend für bodenfruchtbarkeit. Landwirtbl. Weser-Ems 98: 94-95. Feb.1,1951. 18 L2345
- 44043 OBERHAGEMANN, W. Die kalidüngung beginnt. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:397. Mar. 15,1951. 18 L2346
- 44044 OGG, SIR W. Soil fertility. (Sum.) Roy. Inst. Chem. J. 74:126-128. Apr.1950. 382 In7
- 44045 PAAUW, F. VAN DER. The 1000-corn weight the weight per hectoliter and the ratio of corn yield and total yield of cereals as affected by the fertilizing level of the soil. (In Dutch.) Landbk. Tijdschr. 63:116-124. Feb. 1951. 105.2 Or3  
English summary.
- 44046 PAAUW, F. VAN DER. Periodical fluctuations of soil fertility and crop yields. Internatl. Cong. Soil Sci. Trans. 4(2):151-155. 1950. 56.09 In844
- 44047 PÉREZ-SALAS, J., and ESPINOSA, L. DE. Divulgaciones sobre el abonado del viñedo. Semana Vitivin. 6(236):2-3;(238):2-3. Jan.6,20,1951. 95.8 Se5
- 44048 PEYER, E. Die düngung der reben. Schweiz. Z. f. Obst- u. Weinbau 60:96-99. Mar.10,1951. 80 Sch9
- 44049 PHIFER, B. M. They like anhydrous ammonia in Missouri. Agr. Leaders' Digest 32(4):10-11,24. Apr. 1951. 275.28 Am3
- 44050 RICHARD, H. Réfléchissons à la fumure de nos prairies. Agr. Prat. 115:75-77. Feb.1951. 14 J82
- 44051 RODRIGUES, F. G. The use of lime in the soils of the State of São Paulo. (In Portuguese.) Rev. dos Mercados 1(4):62-63. Dec.1950. 286.8 R328  
Includes discussion.
- 44052 RUPP, E. Plant enough corn; balance stalks per acre with available nitrogen for top yields. Mo. Rur. 92(6):9. Mar.24,1951. 6 R8891  
Fertility-rate of planting guide.  
Also in Kans. Farmer 88(7):22-23. Apr.7,1951. 6 K13
- 44053 RUSCHEL, E. Fertilizer and the farmers. (In Portuguese.) Lav. Arroz. 5(49):27-28. Jan.1951. 59.8 L39
- 44054 RUSSELL, E. W. Soils and fertilizers. Roy. Agr. Soc. Eng. J 111:140-154. Ref. 1950. 10 R81  
Research.
- 44055 SAITO, T. Sehi yosetsu [Elements of applying fertilizer]. Tokyo, Azumi Shobo, 1950. 250 p. 57 Sa22
- 44056 SCHEFFER, F. Neuere erkenntnisse in der humusforschung. Neue Mitt. f. die Landwirt. 6:4-5. Jan. 6,1951. 18 N39
- 44057 SCHRADER, R. S. Grass under coconuts. Ceylon Coconut Q. 1(3):17-20. July/Sept.1950. 77.8 C33
- 44058 SCOTT, L. E. Potassium uptake by the sweet potato plant. Amer. Soc. Hort. Sci. Proc. 56:248-252. Dec.1950. 81 So12
- 44059 SCULLY, R. M. Should orchids be fertilized? Amer. Orchid Soc. B. 20:137-139. Mar.1951. 80 Am329
- 44060 SINCOCK, R. L. They soak wheat in fertilizer. Wash. Farmer 76:259-260. Apr.5,1951. 6 R151
- 44061 SMITH, J. C., and others. Corn fertilizer studies near College Station, 1949-50. Tex. Agr. Expt. Sta. Prog. Rpt. 1339,5 p. Mar.8,1951. 100 T31P  
J. S. Rogers, J. F. Fudge, and J. E. Roberts, joint authors.
- 44062 SOMMER. Die technik der kalkdüngung im walde. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:286, 291. Feb.22,1951. 18 L2346
- 44063 SOUSA, A. T. DE. Fertilizing of sweet potatoes (In Portuguese.) Frutas da Madeira 10:89-90. Feb.1951. 286.83 F9422
- 44064 SPENCER, K. Superphosphate placement for spring peas. Irrig. Res. Sta. Int. Rpt. 12,10 p. Feb.1950. 55.9 G871
- 44065 STATEN, G. Spraying nitrogen fertilizer on cotton. Cotton Gin & Oil Mill Press 52(7):20,22. Mar.31, 1951. 304.8 C822
- 44066 STEINMANN, F. Zögernder mineraldünger-verbrauch-warum? Neue Mitt. f. die Landwirt. 6:118. Feb.24,1951. 18 N39
- 44067 STIVER, E. N., and others. Effect of sulphur, nitrogen and phosphorus amendments on cotton production at the Blackland Station, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1336,2 p. Mar.6,1951. 100 T31P  
R. J. Hervey, H. E. Hampton, and J. R. Johnston, joint authors.
- 44068 STORIE, R. E. Rating soils for agricultural, forest and grazing use. Internatl. Cong. Soil Sci. Trans. 4(1):336-339. 1950. 56.09 In844
- 44069 STOUT, R. W. Nitrogen, the key to high production. Ky. Farmer 87(3):6,17,28. Mar.1951. 6 F2237
- 44070 SUNDELIN, G. Correct use of farm production aids is necessary for the production of good yields. (In Swedish.) Lantmannen 35:211-213. Mar.10,1951. 11 L234  
Chiefly on fertilizers and fertilizing.
- 44071 TREMBLAY, T. The bulb and the soil. Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:13-15. 1950. 81 N817
- 44072 TRUOG, E. Soils, fertilizers, and plant relationships. Veg. Growers Assoc. Amer. Annu. Rpt. 1950: 212-234. 81 V52
- 44073 TURSUNKHODZHAEV, Z. On supplementary nitrogenous feedings for grass and legume mixtures on the irrigated Sierozem soils. (In Russian.) Sovet. Agron. 8(12):83-85. Dec.1950. 20 So84
- 44074 UDA, M. Suito sehi no jissai [Practical manuring for rice-plants]. Tokyo, Toyokan Shuppansha, 1950. 282 p. 57.7 Ud1
- 44075 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Fertilizer and farm machinery. Hearings, 82d Cong., 1st sess., Feb. 20-23, 1951. Washington, 1951. 185 p.
- 44076 VADÉ, S. L'humiculture au secours du sol. Vie à la Campagne 40:70-71. Feb.1951. 80 V67  
Cover crops.
- 44077 VIANNA E SILVA, M. Considerations on the fertilizing of rice. (In Portuguese.) Vida Agr. [Lisboa] 13(81):4-6. Jan./Feb.1951. 15.5 V66
- 44078 VITNUM, M. T., and FOSTER, R. E. Effect of soil fertility level on the performance of eight strains of Danish Ballhead cabbage. Amer. Soc. Hort. Sci. Proc. 56:257-260. Dec.1950. 81 So12
- 44079 WALLACE, M. J. Nitrogenous fertilizers. Gard. Chron. 129:84. Mar.17,1951. 80 G162
- 44080 WALLACE, M. J. Phosphatic fertilizers. Gard. Chron. 129:36-37. Feb.3,1951. 80 G162
- 44081 WALLACE, T. Diagnosis of soil fertility by visual symptoms of crops. Internatl. Cong. Soil Sci. Trans. 4(1):13-20. 1950. 56.09 In844
- 44082 WASSON, R. A. Proper fertilization vital to increased corn yields. Victory Farm Forum 41:12. Mar. 1951. 281.8 F226
- 44083 WEEKS, W. D., SMITH, C. T., and DRAKE, M. Residual effects of heavy mulching in a bearing apple orchard on soil nutrients. Amer. Soc. Hort. Sci. Proc. 56:1-4. Dec.1950. 81 So12
- 44084 WELDON, M. D., and RINGLER, W. E. Anhydrous ammonia a good nitrogen fertilizer. Nebr. Agr. Col. Ext. E. C. 193,3 p. 1951. 275.29 N272Ex
- 44085 WELDON, M. D., and RINGLER, W. E. What is liquid fertilizer? Nebr. Agr. Col. Ext. E. C. 195,3 p. 1951. 275.29 N272Ex
- 44086 WESTBROOK, E. C. Increased yields depend upon greater efficiency. Victory Farm Forum 41:2,15-16. Mar.1951. 281.8 F226  
Cotton fertilizing.
- 44087 WILHELM, L. Die düngung unserer reben. Bauern Ztg. 4(8):7-8. Feb.23,1951. 18 B324
- 44088 WILLCOX, O. W. Quantitative agrobiology in the cane fields of Peru. II. Sugar 46(4):42-43. Apr.1951. 65.8 F11
- 44089 WOODLE, H. A. South Carolina is using more nitrogen on corn. Victory Farm Forum 41:12-13. Mar. 1951. 281.8 F226

#### Soil Tilt and Tillage

- 44090 CAPLES, T. Experiment in mulching. Org. Gard. 18(4):36-39. Apr.1951. 56.8 Or3
- 44091 DECOUX, L. La réalisation pratique de la préparation superficielle du sol. (Extr.) Agriculteur 55(12):8-9. Mar.25,1951. 13 B63P
- 44092 FONDARD, L. L'enfouissement direct des pailles. Réveil Agr. 60:50-51. Feb.15,1951. 14 R322
- 44093 GIAROLO, F. The plow and plowing. (In Italian.) Almanacco Agr. (1951)62:97-101. 1950. 16 AL6
- 44094 HARROLD, L. L., and DREIBELBIS, F. R. Problems in mulch farming; American experiments with row crops. Power Farming Austral. & New Zeal. 60(1): 41,43,45. Jan.1951. 58.8 P87
- 44095 HOLMAN, D. D. Garden dry up? Try mulching! Mkt. Growers J. 80(3):38. Mar.1951. 6 M34
- 44096 JÖRISSEN, J. Das kartoffelkraut - hier abfall-, dort aufbaustoff. Tech. f. Bauern u. Gärt. Ausg. A 3:10-11. Jan.10,1951. 58.8 T223



44097 KANNENBERG, H. Fläche oder tiefe ackerkrume? Deut. Landwirt. Presse 74:47. (To be cont.) Feb. 17, 1951. 18 D482

44098 KLAPP, E. Herbst- oder frühjahrsfurche zur cartoffel? Neue Mitt. f. die Landwirt. 6:53-54. Jan. 27, 1951. 18 N39  
Germany.

44099 LARSEN, H. Spring tillage. (In Swedish.) Lantmannen 35:213-214. Mar. 10, 1951. 11 L234

44100 LUNAN, M. Mound cultivation in Ufipa, Tanganyika. East African Agr. J. 16:88-89. Oct. 1950. 24 Ea74

44101 MINDERHOUD, J. Aspects of spring tillage. (In Dutch.) Drents Landtbl. 32(10):5. Mar. 10, 1951. 12 D812

44102 RATHBONE, R. B. New tricks to save soil moisture. Successful Farming 49(4):172,174-175. Apr. 1951. 8 Su12  
Summer-fallow on farms of the Great Plains.

44103 SCHWORE, F. J. Bodenbearbeitung im frühjahr. Bauern Ztg. 4(7):7-8. Feb. 16, 1951. 18 B324

44104 SOMMERKAMP. Betriebswirtschaftlichen zur frühjahrsbestellung 1951. Landwirtbl. Weser-Ems 98:92-94. Feb. 1, 1951. 18 L2345

44105 THUNGEN, D. FREIHERR VON. Frühjahrsarbeiten auf schwersten böden. Neue Mitt. f. die Landwirt. 6:115-116. Feb. 24, 1951. 18 N39

#### Drainage, Irrigation, Water Supply, and Flood Control

44106 AFZAL, M. Water means wealth for Pakistan. Cotton Trade J. Internatl. Ed. 31(10):51-53. Mar. 9, 1951. 72.8 C82141

#### Irrigation in the Cotton Belt.

44107 ALANIS PATIÑO, E. Las tierras de riego. Prob. Agr. e Indus. de Méx. 2(2):47-167. Apr./June 1950. 281.8 P943

44108 BASSE, N. Bur-Vemb heath. (In Danish.) Dansk Hedeselsk. Hedeselsk. Tidsskr. 71:350-352. Dec. 15, 1950. 11 H35  
Reclamation.

44109 BAYMA, C. Irrigation in Acarape. (In Portuguese.) Seleç. Agr. 6(57):27-28. Jan. 1951. 9.2 Se4

44110 BILAND, P. Nécessité de connaître la nature de l'eau et du sol en culture irriguée. Rev. Agr. de l'Afrique du Nord 49:12-13. Jan. 5, 1951. 80 R326

44111 BLANEY, H. F. Use of water by irrigated crops in California. Amer. Water Works Assoc. J. 43:189-200. Ref. Mar. 1951. 292.9 Am32J

44112 BONDURANT, S. W. Upstream flood control in Virginia. Commonwealth 18(3):13-14. Mar. 1951. 280.8 C732

44113 BORCHARDT, H. Beregnung im obstbau. Neue Mitt. f. die Landwirt. 6:89-91. Feb. 10, 1951. 18 N39  
Germany.

44114 CANALINI, G. Reorganization of irrigation. (In Italian.) Gior. di Agr. 61:82. Mar. 18, 1951. 16 ItIG  
Italy.

44115 CANDIOLI, P. Il comprensorio Tartaro-Canal Bianco zona depressa della provincia di Verona [The Tartaro-Canal Bianco low region of Verona Province]. Verona, Albarelli, 1950. 27 p. 54 C16  
Reclamation.

44116 CARMICHAEL, A. Overhead irrigation. Butterfat [Vancouver] 29:6-7. Apr. 1951. 44.8 B98

44117 CHAVEZ OROZCO, L. La irrigación en México: ensayo histórico. Prob. Agr. e Indus. de Méx. 2(2):11-31. Apr./June 1950. 281.8 P943

44118 CHEREMISINOV, G. A. Better utilization of winter precipitation in the forest-steppe zone. (In Russian.) Sovet. Agron. 8(12):11-23. Dec. 1950. 20 So84  
Chiefly on snow retention.

44119 CHERNYI, G. Effectiveness of irrigation on guaranteed harvest plots. (In Russian.) SoSialist. Sel'sk. Khoz. 21(10):9-16. Oct. 1950. 281.8 So73

44120 CHILDS, E. C., and O'DONNELL, T. The water table, equipotentials, and streamlines in drained land. VI. The rising water table. Soil Sci. 71:233-237. Mar. 1951. 56.8 So3

44121 COLEMAN, W. H. Eight farmers drain land. Soil Conserv. 16:226-227. May 1951. 1.6 So3S  
Cooperative project in Missouri.

44122 DOUGALL, H. W. A note on the reclamation of soils inundated with sea water. Internatl. Cong. Soil Sci. Trans. 4(1):407-408. 1950. 56.09 In844

44123 EFFA, J. Planificación del riego-lluvia. Hazienda 46(3):40-41. Mar. 1951. 6 H11

44124 ELAM, F. L. Water is a money crop. West. Livestock J. 29(16):36-37,153. Feb. 15, 1951. 6 F2278  
Irrigated pastures in California.

44125 ELLIS, K. Ground water control in organic soils. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:234-237. 81 V52

44126 ENGELHARDT, J. H. The problem of drainage ditches. (In Dutch.) Overijsselsch Landtbl. 33(1592):12. Feb. 17, 1951. 12 Ov2

44127 EWART, G. Y. The mechanics of field irrigation scheduling utilizing Bouyoucos blocks. Agr. Engin. 32:148-151,154. Ref. Mar. 1951. 58.8 Ag83

44128 FERGUSON, D. S. Construction of coastal bunds in Malaya. Malayan Agr. J. 34:3-12. Jan. 1951. 22.5 F312

44129 FISHER, C. E., and MARION, P. T. Water conservation increases cotton yields. Tex. Agr. Expt. Sta. Prog. Rpt. 1340,3 p. Mar. 11, 1951. 100 T31P

44130 FREYBURGER, E. Flood control in the Little Sioux Watershed in Iowa. Agr. Engin. 32:152-154. Mar. 1951. 58.8 Ag83

44131 GERTEL, K. Recent suggestions for cost allocation of multiple-purpose projects in the light of public interest. J. Farm Econ. 33:130-134. Feb. 1951. 280.8 J822

Flood control and irrigation projects.

44132 GOMEZ, M. R. Los riegos en México. Prob. Agr. e Indus. de Méx. 2(2):33-45. Apr./June 1950. 281.8 P943

44133 GONÇALVES, P. A. The Ellis Dam. (In Portuguese.) Lav. Arroz. 4(48):19-21,23-26. Dec. 1950. 59.8 L39

44134 GORRIE, R. M. Water conservation in coconut and rubber crops. (Sum.) Ceylon Coconut Q. 1(3):13-15. July/Sept. 1950. 77.8 C33

44135 GRAFFER, P. Irrigation from the economic point of view. (In Italian.) Almanacco Agr. (1951)62:93-95. 1950. 16 AL6  
Italy.

44136 HIGGINS, F. H. On the level—the West led the rest! Earth moving machines developed through need for water on crops. Impl. Rec. 47(13):19-20,43. Dec. 1950. 58.8 Im73

44137 HOGETSU, K. Chusei kangaishi no kenkyu [A study on irrigation in the Middle Ages]. Rev. ed. Tokyo, Meguro Shoten, 1950. 366 p. 55 H672

44138 HUGHES, W. F., and MOTHERAL, J. R. Irrigated agriculture in Texas. Tex. Agr. Expt. Sta. Misc. P. 59,37 p. Sept. 1950. 100 T31M

44139 IVANOVA, N. F. Machines for cutting temporary irrigation canals and field leveling. (In Russian.) Sel'khoz mashina 1950(11):3-5. Nov. 1950. 58.8 Se42

44140 JOHNSTON, J. C. Importance of irrigation in dry years. Calif. Citrog. 36:225,263-264. Apr. 1951. 80 C125

44141 JONAS, H. Irrigation-5 HP style. Elect. Farm 24(3):7-9,18-20. Mar. 1951. 335.8 EL27  
Equipment.

44142 KING, A. S. When and how to irrigate bulbs. Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:44-46. 1950. 81 N817

44143 KIRKHAM, D., and SCHWAB, G. O. The effect of circular perforations on flow into subsurface drain tubes. Agr. Engin. 32:211-214. Apr. 1951. 58.8 Ag83

44144 KOKOVIN, E. V., and NEZNAEV, M. F. Mekhanizatsiya meliorativnykh rabot [Mechanization of improvement works]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 350 p. 58 K82

Drainage, land clearing, etc.

44145 KORVEN, H. C. Irrigating the Prairie home garden. Canada. Dept. Agr. P. 851,21 p. Dec. 1950. 7 C16Pu

44146 KOSTIAKOV, A. N. Stalin Plan for irrigation and water supply in the lands of arid districts. (In Russian.) Agrobiologiya 1950(6):3-10. Nov./Dec. 1950. 20 Ag822

44147 KOVDA, V. A. The great plan for transforming deserts. (In Russian.) Zhur. Obshch. Biol. 11:416-426. Nov./Dec. 1950. 442.8 Z6  
Includes irrigation.

44148 KUFFELER, V. J. P. DE B. VAN. Reclamation in the southern part of IJsselmeer. I-III. (In Dutch.) Groninger Landtbl. 28(50):5;(51):3;29(1):3. Dec. 23, 1950-Jan. 6, 1951. 12 G892

44149 LUBIN, I. Water control and utilization discussed as a world problem. U. S. Dept. State. B. 24:503-506. Mar. 26, 1951. 150 B87

Includes discussion of international cooperation in irrigation and flood control.



- 44150 LUNAN, M. Small earth dams for the irrigation of rice fields. *East African Agr. J.* 16:78-83. Ref. Oct.1950. 24 Ea74
- 44151 MANN, D. H. Better irrigation boosts yields. *Utah Farmer* 71:264,288. Apr.5,1951. 6 D45
- 44152 MASS, D. Grain-growing under irrigation. (In Hebrew.) *Hassadeh* 31:145-146. Jan.1951. 26 H27
- 44153 MILLER, C. K. Doomed land redeemed; co-operative drainage project stops creeping paralysis of seepage. *Mont. Farmer-Stockman* 38(12):20,22. Feb.15, 1951. 6 M764
- In Wvoming.
- 44154 PARISH, F. J. Land drainage in eastern Ontario. *Farmer's Advocate & Home Mag.* 86(3396):38-49. 41. Apr.12,1951. 7 F22
- 44155 PARISH, F. J. Machinery to use in farm drainage work. *Farmer's Advocate & Home Mag.* 86(3395):6, 35. Mar.22,1951. 7 F22
- 44156 PEVNEV, D. S. On snow retention in Northern Kazakhstan. (In Russian.) *Sovet. Agron.* 8(12):24-34. Dec.1950. 20 So84
- 44157 RANDO, G. C. Economic and social value of irrigation. (In Portuguese.) *Soc. Rur. Bras. Rev.* 31(362):42-44. Jan.1951. 9.2 B733
- 44158 ROARK, C. Irrigation is good crop insurance. *South. Planter* 112(3):16-17,31. Mar.1951. 6 So89
- 44159 RODIONENKO, G. I. Unsuitability of flotation water [from copper works] for irrigation of ornamental plants. (In Russian.) *Akad. Nauk SSSR. Bot. Inst. Trudy. Ser. 6. Introd. Rast. i Zelenoe Stroitel'stvo* 1950:212-217. Ref. 451 Ak15
- 44160 ROMANINI, A. The best time for irrigating. (In Italian.) *Avvenire Agr.* 59:31-32. Feb.1951. 16 Av9
- 44161 SACCO, P. Let us give a drink to thirsty and unproductive lands. (In Italian.) *Campagnolo* 6:2-3. Jan. 1951. 16 C15
- Italy.
- 44162 SALA ROCA, E. La incrementación de los riego en la región catalana. *Cult. Mod.* 34:8. Jan.1951. 15 C89
- 44163 SAMPIETRO, G. Irrigation and hydroelectric equipment. (In Italian.) *Riscicoltura* 38:253-257. Nov. 1950. 59.8 G43
- 44164 SCHEROTZKI. Geregelte wasserwirtschaft grundlage jeder ertragsleistung. *Landwirtsch. Weser-Ems* 98:140-142. Feb.15,1951. 18 L2345
- Drainage.
- 44165 SCHIAVETTI, V. Minor problems of irrigation of the Lombardy plateau. (In Italian.) *Cent. di Studi per l'Ingegn. Agr. Mem. ed Atti* 5:67-70. Nov./Dec.1950. 58.9 C33
- 44166 SCHIFF, L. Hydrology of surface supplies to runoff. *U. S. Soil Conserv. Serv. SCS-TP-90*, 25 p. Ref. Feb.1951. 1.96 Ad6Tp
- 44167 SHAROV, L. A. The principal Turkmenian Canal—the greatest irrigation structure in the world. (In Russian.) *Agrobiologiya* 1950(6):11-14. Nov./Dec.1950. 20 Ag822
- 44168 SPURLING, M. B. Furrow irrigation of citrus. *So. Austral. Dept. Agr. J.* 54:272-276. Jan.1951. 23 So84
- 44169 STARKE, H. R. Reclamation in Groningen. (In Dutch.) *Plattelands-Post* 7:6. Jan.6,1951. 12 P69
- 44170 THOMAS, SIR R. Land drainage in West Pakistan. *Agr. Pakistan* 1:146-149. 1950. 22 Ag832
- 44171 TISSERON, J. Comment l'agriculteur peut-il résoudre le problème de la recherche des ressources en eau de son exploitation rurale. *Almanach Agr. Tunisie* 1951:189-195. 24 AL6
- 44172 UNITED NATIONS ECONOMIC AND SOCIAL COUNCIL. ECONOMIC COMMISSION FOR ASIA AND THE FAR EAST. Technical Conference on Flood Control; preliminary announcement. New York, 1950. 5 p. (United Nations. [Doc.] E/CN.11/FLOOD/INF/1) 290.9 Un34T
- 44173 U. S. SOIL CONSERVATION SERV. Summary, group drainage work in Soil Conservation Districts with SCS assistance, calendar year 1950, and to date totals. Washington, 1951. 11 p. 1.96 Dp2Sug
- 44174 VAN DER MERWE, P. J. Is there too much water along the Great River? (In Afrikaans.) *Landbou-weekblad* 32(1648):9-10. Feb.14,1951. 24 L232
- Irrigation in farming tests along the Orange River.
- 44175 VAN LAAN, G. J., and COOK, R. L. The effect of three methods of watering on the production of carnations in several soils and soil mixtures. *Amer. Soc. Hort. Sci. Proc.* 56:415-422. Dec.1950. 81 So12
- 44176 VARONA, J. Matemáticas para el labrador; instalaciones de riego. II. Ceres [Valladolid] 16(176):29, 31,33-34. Feb.1,1951. 15 C33
- 44177 VEENENBOS, J. S. Infiltration in peat-soils. *Internatl. Cong. Soil Sci. Trans.* 4(2):199-203. 1950. 56.09 In844
- 44178 VISSER, W. C. The possibility of exact regulation of the depth of drainage. *Internatl. Cong. Soil Sci. Trans.* 4(2):51-54. 1950. 56.09 In844
- 44179 WARNE, W. E. Hawaii's irrigation needs. *Calif. Farm Rptr.* 12(4):7. Apr.1951. 281.8 C12
- 44180 WARWICK, W. A. G. Weekly water gives good results. *Grower [London]* 35:389. Feb.24,1951. 286.83 M34
- Chief vegetables.
- 44181 WHITAKER, R. W., and LYTLE, W. F. Supplemental irrigation of pasture. *Agr. Engin.* 32:163-165. Mar.1951. 58.8 Ag83
- 44182 WOOD, I. D. Want real water control? Siphon tubes can do the job. *West. Farm Life* 53(7):5. Apr.1, 1951. 6 R153

### Erosion and Erosion Control

- 44183 ZANELLI, P. Pro pane nostro. (In Italian.) *Cent. di Studi per l'Ingegn. Agr. Mem. ed Atti* 5:62-66. Nov./Dec.1950. 58.9 C33
- Irrigation and other methods of increasing food production in Italy.
- 44184 AUREAU, M. Lutte contre l'érosion. *Almanach Agr. Tunisie* 1951:199-200. 24 AL6
- 44185 BENNETT, H. H. Modern soil conservation. *Internatl. Cong. Soil Sci. Trans.* 4(1):21-31. 1950. 56.09 In844
- 44186 BENNETT, H. H. The rewards of soil conservation. Washington, U. S. Soil Conserv. Serv., 1951. 4 p. 1.96 Ad62
- Summary of remarks at annual award presentation, 29th National Convention, Isaak Walton League of America, Inc., Cincinnati, Apr. 6, 1951.
- 44187 BENNETT, H. H. Soil and wildlife. *Wildlife N. C.* 15(4):6-9,20-21. Apr.1951. 279.8 N812
- Soil conservation.
- 44188 BENNETT, H. H. Soil conservation in relation to nutrition. *Rev. Washington, U. S. Soil Conserv. Serv.* 1951. 9 p. 1.96 Ad62
- Address at the Pan American Homeopathic Medical Congress, Washington, D. C., Oct. 3, 1947.
- 44189 BLAKE, R. P. How our bank organized a 3-year soil conservation contest. *Nowest. Banker* 56(764):15,20. Mar.1951. 284.8 N81
- 44190 BODDY, H. Group action is a mighty force in the Northwest. *Soil Conserv.* 16:221-223. May 1951. 1.6 So3S
- Soil and water conservation.
- 44191 BONDAR, G. Soils of Bafa, their conservation and utilization. (In Portuguese.) *Bahia. Sec. da Agr., Indus. e Com. Serv. de Divulg. B.* 46(6):111-151. Mar. 1950. 9.2 B14
- 44192 CAMPBELL, D. A. Development of aerial topdressing of grasslands as a conservation tool to minimize run off. *Internatl. Cong. Soil Sci. Trans.* 4(1):327-331. 1950. 56.09 In844
- New Zealand.
- 44193 CAMPBELL, D. A. The effect of conservation management of native grasslands in minimizing surface run off. *Internatl. Cong. Soil Sci. Trans.* 4(1):322-324. 1950. 56.09 In844
- New Zealand.
- 44194 CAMPBELL, D. A. Types of soil erosion in New Zealand. *Internatl. Cong. Soil Sci. Trans.* 4(2):196-199. 1950. 56.09 In844
- 44195 CHEREMISINOV, G. A. Perennial grasses and legumes—an effective means in the combat with drought and soil erosion. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 16(1):10-14. 1951. 20 Ak1
- 44196 DUCKHAM, A. N. Soil conservation and food production. *East African Agr. J.* 16:115-118. Oct.1950. 24 Ea74
- 44197 EAST, C. M. County agent takes lead in saving soil. *Hoosier Farmer* 36(4):8-9. Apr.1951. 280.82 H76
- 44198 ELLISON, W. D. Splash erosion. *Co-op Grain Q.* 9:48-52. Spring 1951. 280.28 C7898
- 44199 FAHRENKROG, L. What my soil district means to me. *Iowa State Watersheds B.* 1(11):5. Mar.1951. 290.8 Io9
- 44200 FIGUEROA, L. C. G. DE. La erosión del suelo vegetal. *Agricultura [Madrid]* 20:64-67. Feb.1951. 15 Ag84



44201 FRANCIS, M. The soil must produce; help your customers improve their soil conservation programs. Feedstuffs 23(11):36-37. Mar.17,1951. 286.81 F322

44202 HAAN, J. H. DE. Integral erosion research. Internatl. Cong. Soil Sci. Trans. 4(1):320-322. 1950. 56.09 In844

44203 HOCKENSMITH, R. D. Scientific bases for soil conservation in the Americas. (In Portuguese.) Fazenda 46(2):25-27. Feb.1951. 6 H11P

44204 JACKS, G. V. Soil erosion and conservation. Agr. Econ. 2(3):9-10. Nov.1950. 281.8 Ag832

44205 JARAMILLO SIERRA, B. Valles de Colombia. Ed. 2. Bogotá, 1950. 270 p. 56.7 J28  
Soil conservation.

44206 KONOP, C. Conservation means better living for a better world. Wis. Conserv. B. 16(3):26-27. Mar. 1951. 279.8 W752  
Soil conservation.

44207 LAMBETH, W. O. Pioneer spirit still carries on. South. Planter 112(3):20-21. Mar.1951. 6 So89  
Conservation farming in North Carolina.

44208 LØDDESQL, A. The soil conservation conference in Amsterdam, July 19-21, 1950. (In Norwegian.) Norske Myrselsk. Meddel. 49:1-11. Feb.1951. 11 N813

44209 MAIA, D. Soil conservation in cotton culture. (In Portuguese.) Lavoura 54:15-16. Nov./Dec.1950. 9.2 L39  
Brazil.

44210 MINIOZ, L., and DARPOUX, R. Soil conservation. (In French.) France. Min. de l'Agr. B. Tech. d'inform. 55:883-894. Dec.1950. 14 F844B

44211 NOBLE, G. L. 4-H Clubs help save Nation's soil. Soil Conserv. 16:219-220,226. May 1951. 1.6 So3S

44212 QUINTEROS, M., AROCENA, E., and VERUSI, D. R. La erosión de los suelos. Tambo y Chacra 24(789): 4. (To be cont.) Feb.26,1951. 44.8 T15  
Argentina.

44213 REIFENBERG, A. Man-made dune encroachment on Israel's coast. Internatl. Cong. Soil Sci. Trans. 4(1):325-327. Ref. 1950. 56.09 In844

44214 RICE, W. E. What my soil conservation district has done for me. Soil Conserv. 16:234-235. May 1951. 1.6 So3S

44215 ROBERTSON, T. C. Soil war more fatal than atom bombs. (Extr.) Veldtrust 12(12):2-3,27. Dec.1950. 56.8 v54

44216 RODRIGUEZ LOPEZ, O. V. Apuntes y observaciones sobre erosión y conservación de los suelos. Uruguay. Inst. Nac. de Colon. B. Anexo 1(11):1-7. Dec. 1950. 282.29 Ur8

44217 TOOGOOD, J. A., and NEWTON, J. D. Water erosion in Alberta. Alberta. U. Facul. Agr. B. 56,39 p. Dec.1950. 101 AL1B

44218 TORRES, J. A. Informe sobre protección de recursos naturales en Costa Rica. Suelo Tico 4:371-381. Nov./Dec.1950. 8 Su2  
Soil, water, and forest conservation.

44219 U. S. SOIL CONSERVATION SERV. NORTHERN GREAT PLAINS REGION. Corn planted on the contour. Rev. U. S. Soil Conserv. Serv. Conserv. Educ. Aid. Ser. 1(5),1 p. Dec.1950. 1.9607 C768

44220 U. S. SOIL CONSERVATION SERV. NORTHERN GREAT PLAINS REGION. Gullies. U. S. Soil Conserv. Serv. Conserv. Educ. Aid. Ser. 1(3),1 p. Dec.1950. 1.9607 C768

44221 WHITMORE, B. Soil fertility and the nation's future. Amer. Coop. 22:679-680. 1950. 280.29 Am3A  
Conservation.

#### Sanitation

44222 CLARK, F. E. The use of ethylene oxide for soil sterilization. Internatl. Cong. Soil Sci. Trans. 4(1): 204-205. 1950. 56.09 In844

44223 DIMOCK, A. W. Should I sterilize? Canad. Florist 46(3):13,16. Feb.10,1951. 80 C163  
Soil.

44224 GUILLOU, R. Adjustment of soil fumigant injectors with engine-driven pumps. Hawaii. U. Agr. Ext. C. 305,2 p. Feb.1951. 275.29 H312Ac

44225 LOUSTALOT, A. J., and FERRER, R. The effect of some environmental factors on the persistence of sodium pentachlorophenate in the soil. Amer. Soc. Hort. Sci. Proc. 56:294-298. Dec.1950. 81 So12

44226 NEWHALL, A. G., and SCHROEDER, W. T. A new soil pasteurizer. Farm Res. [N. Y. State Sta.] 17:3 Jan.1951. 100 N48A

44227 STARNES, O., REED, J., and FILMER, R. S. An improved soil fumigant applicator. N. J. State Hort. Soc. Hort. News 32:2341,2343,2354. Feb.1951. 81 N46

44228 STOU MONT, A. D. Soil disinfection. (In Flemish.) Cult. en Handel 17:131-132. Feb.1951. 80 C892

#### MATERIALS FOR SOIL IMPROVEMENT

44229 ANDERSON, I. V. Lignin for golf greens and other horticultural uses. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 87,4 p. Jan.1951. 1.9622 N3R31

44230 DHAR, N. R. Humus and coal as manure. (Sum.) Roy. Inst. Chem. J. 74:133-134. Apr.1950. 382 In7

44231 HOFFMAN, J. L. Old fashioned fertilizer. Org. Gard. 18(4):51. Apr.1951. 56.8 Or3  
Seaweed.

44232 ROF CODINA, J. La leche como abono. Zamo-ra. Junta Prov. de Fomento Pecuario. B. 9(104/106):14-15. Oct./Dec.1950. 49.9 Sp13  
Surplus dried milk.

#### Primary Materials

44233 ADOŖIAN, A. R. Granulation of mineral fertilizers with seeds of perennial legumes and grasses. (In Russian.) Selek. i Semen. 17(11):71-72. Nov.1950. 61.9 Se5

44234 CHARRIN, V. Phosphates de chaux: généralités, gisements de la France métropolitaine. Chim. & Indus. 65:413-416. Mar.1951. 383 C42

44235 WELDON, M. D., and RINGLER, W. E. Which nitrogen fertilizer shall I use? Nebr. Agr. Col. Ext. E.C. 194,3 p. 1951. 275.29 N272Ex

#### Secondary and Minor Element Materials

44236 STARCHER, G. C. The function of minerals; minor minerals, as well as the more widely-used major ones, are essential to plant growth. South. Farmer 112(4): 6. Apr.1951. 6 So833

#### Mixed Fertilizers and Fertilizer Technology

44237 KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Commercial fertilizers in Kentucky, 1950, including a report on official fertilizer samples analyzed July-December, 1950. Ky. Agr. Expt. Sta. Regulat. B. 87, 43 p. Feb.1951. 100 K41

44238 LIKHACHEV, A. M. Improved method for the preparation of granulated fertilizers. (In Russian.) Sovet. Agron. 8(12):67-69. Dec.1950. 20 So84  
Description of new machine.

44239 LONGWELL, J. H., and others. Fertilizer in spection and analysis; fall, 1949. Mo. Agr. Expt. Sta. B. 543,57 p. Nov.1950. 100 M693

R. C. Prewitt, C. W. Gehrke, and E. W. Cowan, joint authors.

44240 MAINE. AGRICULTURAL EXPERIMENT STATION. Commercial fertilizers, 1950; Off. Insp. 217, by E. R. Tobey. Orono, 1950. 32 p. 100 M28S

44241 TAYLOR, G. The Fertilisers and Feeding Stuffs Acts. J. Sci. Food & Agr. 2:47-53. Feb.1951. 382 So12

#### Fertilizer Statistics

44242 BLACKLEY, S. R. Sulphur joins the list of shortages. Farmer & Stock-Breeder 65(3204):41,43. Mar. 20/21,1951. 10 F228  
In Great Britain.

44243 FUDGE, J. F. Distribution of fertilizer sales in Texas, January 1-June 30, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1272,2 p. Sept.15,1950. 100 T31P

44244 GREVE, W. Die lage auf dem düngemittelmarkt. Landwirtsbl. Weser-Ems 98:142. Feb.15,1951. 18 L2345

44245 HOPKINS, D. P. Subsidies, sulphur and the soil. Fert. Feed. Stuffs & Farm Supplies J. 37:173,175-177. Mar.21,1951. 57.8 F413

44246 JOHANNESSEN, B. Fertilizer requirements. (In Icelandic.) Freyr 45:330-335. Dec.1950. 11 F89

44247 LAMPL, R. Handeln—bevor es zu spät ist! Neue Mitt. f. die Landwirt. 6:65. Feb.3,1951. 18 N39  
Fertilizer policy for Germany.

44248 SÄKK, K. The international fertilizer supply. (In Swedish.) Sweden. Stat. Jordbrämsmd. Jordbrekon. Meddel. 12:365-369. Dec.1950. 257.3 J76



44249 SILFVERSWARD, H. The fertilizer supply in Sweden 1949/50 and 1950/51; production, import and consumption. (In Swedish.) Sweden. Stat. Jordbrämsänd. Jordbrekon. Meddel. 12:370-375. Dec. 1950. 257 3 174  
44250 WHELIHAN, P. J. Acorns of industry; the fertilizer story. Nation's Business 39(5):80-81. May 1951. 286.8 N212

#### Mineral Soil Amendments

44251 PATTON, J. B. Industrial limestone in Indiana. Sci. Mon. 72:259-265. Apr. 1951. 470 Sci23  
44252 SCOTT, P. Try basic slags. Org. Gard. 18(4): 54-55. Apr. 1951. 56.8 Or3  
44253 THIERY, P. Lime amendments. (In Italian.) Italia Agr. 88:74-76. Feb. 1951. 16 It1  
France.

#### Manures and Composts

44254 BERRE, T. Straw that is being burnt. (In Norwegian.) Landbrukstidende 57:90-91. Jan. 31, 1951. 11 L236  
Utilization as compost and feed.  
44255 CATALINA, L. Abonos vegetales sintéticos. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 41(190):31-32. Oct./Dec. 1950. 8 R323  
44256 DERBAL, Z. Etude sur la valeur du fumier au Soudan. French West Africa. Insp. Gén. de l'Elevage. B. des Serv. de l'Elevage et des Indus. Anim. 3(2/3):21-23. Apr./Sept. 1950. 41.8 F68B  
44257 GEIGER, and FLAD. Frühjahrsgülle, dick oder dünn? Neue Mitt. f. die Landwirt. 6:184. Mar. 24, 1951. 18 N39  
44258 GOETZ, K. Bereitung und anwendung von häckselmist. Neue Mitt. f. die Landwirt. 6:24. Jan. 13, 1951. 18 N39  
44259 GOTTFELD, S. F. Quality of farmyard manure. (In Hebrew.) Hassadeh 31:196-197. Jan. 1951. 26 H27  
44260 GROH. Stallmistanfall und bodenfruchtbarkeit. Deut. Landwirt. Presse 74:33-34. Feb. 3, 1951. 18 D482  
44261 HAAS, J. A points system for classification of composts on macroscopic and chemical basis. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 23:249-259. Ref. 1950. 19.5 C332C  
English summary.  
44262 JAMES, T. H. The fertility of orchid composts. Austral. Orchid Rev. 15:106-108. Dec. 1950. 80 Au73  
44263 KNOPFF. Eine zeitgemäße kompostbereitung und kompostierung. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:394. Mar. 15, 1951. 18 L2346  
44264 SEARLE, P. K. The use of coconut husks as compost. Austral. Orchid Rev. 15:113-114. Dec. 1950. 80 Au73  
44265 VIGUERIE, P. DE. L'utilisation des marcs de raisin pour la fumure des vignes. Tarn-et-Garonne Agr. 14:23-24. Feb. 1951. 14 T17  
44266 WHITE, H. C. Manure versus compost humus. Amer. Acad. Appl. Nutr. Mon. Newslet. J. 4(3):12-13. Mar. 1951. 389.9 Am352

### FORESTRY

#### GENERAL

44267 CROMER, D. A. N. Some Spanish and Portuguese forestry terms. Austral. Forestry 14:39-42. 1950. 99.8 Au74  
44268 GURBIN, F. V. 40 years in forestry. (In Russian.) Lesn. Khoz. 3(9):92-93. Sept. 1950. 99.8 L5622  
Petr Dmitrievich Okorokov.  
44269 HALL, W. L. The Society of American Foresters—its contribution to our national economy. J. Forestry 49:165-168. Mar. 1951. 99.8 F768  
44270 HARRISON, J. D. B. American forestry in a world perspective. J. Forestry 49:172-176. Mar. 1951. 99.8 F768  
44271 JACKSON, O. M. History of Government timber sale number one. J. Forestry 49:281-283. Apr. 1951. 99.8 F768  
44272 PUSCH. 1950 (ein rückblick für Hessen). Forstl. Mitt. 4:1-2. Jan. 5, 1951. 99.8 F7725  
44273 ROLSTED, M. Our forestry. (In Norwegian.) Norsk Landbr. 17:95-96. Mar. 2, 1951. 11 N8122

44274 ROMANOV, A. A., and ZAKHAROV, P. S. From the work of Kuberleevskii Opornyĭ Punkt dendrarium. (In Russian.) Agrobiologičeskii 1950(6):145-149. Nov./Dec. 1950. 20 Ag822  
Forestry research.

44275 SPAIN. MINISTERIO DE AGRICULTURA. SERVICIO DE ESTADÍSTICA. Estadística forestal de España, año 1947-48. Madrid, 1950. 96 p. 263 M76

44276 SÜLZE, L. Forstliche bibliographie, berichtszeitraum 1. januar bis 31. märz 1950. Forstwirt. Holzwirt. 4:371-374. Dec. 1/15, 1950. 99.8 F7793

44277 GARCIA B., J. U. No provoques, campesino, el cáncer de la selva. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 41(190):10. Oct./Dec. 1950. 8 R323

44278 U. S. FOREST SERV. CALIFORNIA FOREST AND RANGE EXPERIMENT STATION. 1950 addition to staff publications, California Forest and Range Experiment Station, by D. H. Vinther, comp. Berkeley, 1951. 7 p. 1.9 F7626St

#### Education

44279 FRERICH. Die waldarbeitsschule Rinkerode. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:291-292. Feb. 22, 1951. 18 L2346

44280 MOILANEN, T. J. On forestry education in the United States. (In Finnish.) Metsätaloudellinen Aikakaushlehti 1950:381-383. 99.9 F49  
English summary.

44281 MOISEEV, and OBOZOV. We should attract scientific workers for propaganda work and introduction of scientific principles into forestry. (In Russian.) Lesn. Khoz. 3(9):91. Sept. 1950. 99.8 L5622  
Policy of Bränskilä Lesokhoziaistvennyi Institut.

44282 TYOTEHOMIES. Vocational training required. (In Finnish.) Teho 1950(11):7-8. 20 T98  
English summary, p. 66.  
Training of woodsmen.

#### Policies, Programs, Administration

44283 BEER, F. Auch in der forstwirtschaft neue aufgaben nach dem wahlstieg der Nationalen Front. Forstwirt. Holzwirt. 4:321. Nov. 1/15, 1950. 99.8 F7793

44284 BOVIN, A. I. Transformation of nature of steppes and forest-steppes of U.S.S.R. (In Russian.) Lesn. Khoz. 3(9):8-21. Sept. 1950. 99.8 L5622  
Afforestation chiefly.

44285 BROADER use of broad leaf species in the people's economy. n.d. 2 p. Translation 6444  
Translated from Lesnaya Promyshlennost 2:22-23. 1950.

44286 COCKE, E. A forestry program for Georgia bankers. Conserv. News 5(10):6. Feb. 15, 1951. 279.8 C768

Pine tree planting program.

44287 FROMER, R. Quantity or quality? (In Polish.) Sylwan 94(3):10-18. 1950. 99.8 Sy52  
English summary.

Remarks on an article of the FAO staff Forestry and Forest Products Department.

44288 FUENBUENA, E. El Gobernador Civil y Jefe Provincial, habla para los labradores; repoblación forestal, fomento de la ganadería y mejoramiento de las condiciones urbanas. Saragossa. Cám. Ofic. Sind. Agr. B. Mens. 33:12-13. Feb. 1951. 15 Sa7

44289 HUBERMAN, M. A. Six months after Mysore. Austral. Forestry 14:4-10. 1950. 99.8 Au74

Forestry assistance of the Food and Agriculture Regional Office at Bangkok.

44290 IN THE Peoples' Republic of China. n.d. 2 p. Translation 6433

Translated from Lesnoye Khoziaistvo 11:93-94. 1950. Forestry.

44291 JEYDEV, T. More trees mean more food. Indian Forester 77:26-27. Jan. 1951. 99.8 In2

44292 KONDRASHIN. We shall complete the annual construction plan of [Salsk] forest conservation station by the 7th of November. (In Russian.) Lesn. Khoz. 3(9):29-30. Sept. 1950. 99.8 L5622

44293 KROLL, Zu: "planung der holzartenwahl." Forstwirt. Holzwirt. 4:347-348. Nov. 1/15, 1950. 99.8 F7793  
Germany.

44294 LARGE scale afforestation during the Five Year Plan. n.d. 2 p. Translation 6434

Translated from Hungarian Bulletin No. 68. Mar. 1950.



- 44295 LIDL, O. Die mitwirkung der staatlichen forstbehörden bei der förderung des bauernwaldes in den süddeutschen ländern ohne landwirtschaftskammern. Allg. Forstz. 6:116-117. Mar.7,1951. 99.8 AL52
- 44296 MADRID (PROVINCE) SERV. FORESTAL. Memoria explicativa de los trabajos realizados hasta la fecha. Madrid, Impr. Provincial, 1950. 20 p. 99.66 M263
- 44297 MARYLAND. BOARD OF NATURAL RESOURCES. Seventh annual report 1950. Annapolis, 1951. 207 p. 279.9 M364  
Includes report of the Department of State Forests and Parks.
- 44298 QUIRINO, E. Implementation of forest policy needed. Filipino Forester 2:23-28. 1950. 99.8 F47  
From Philippine Life, June 1950, with note by J. Viado.
- 44299 RIETH. Aktivistenplan. Forstwirt. Holzwirt. 4:356-359. Dec.1/15,1950. 99.8 F7793
- 44300 SCHAEFFER, A. L'avenir de la forêt feuillue Rev. Forest. Franç. 1951:124-126. Feb.1951. 99.8 R329
- 44301 SIEBER, G. Die verbesserung der gewerkschaftsarbeit in der forstwirtschaft, eine entscheidende voraussetzung zur durchführung des fünfjahrplans. Forstwirt. Holzwirt. 4:353-356. Dec.1/15,1950. 99.8 F7793
- 44302 SMALL, A. R. L. Timber growing, research, decentralisation. Austral. Timber J. 16:738,741. Nov. 1950. 99.81 Au7
- 44303 SOUTH AUSTRALIA. WOODS AND FORESTS DEPT. Annual report for year 1948-1949. Adelaide, 1950. 15 p. 99.9 So8R
- 44304 SOUTH CAROLINA. STATE COMMISSION OF FORESTRY. Report for the year July 1, 1949 to June 30, 1950. Columbia, 1950. 116 p. 99.9 So83
- 44305 SPIRANEC, M. The separation of areas for afforestation outside of territory of "Kras." (In Croatian.) Šumarski List 74:480-483. Dec.1950. 99.81 Su6
- 44306 SQUIRES, J. W. Mississippi national forests. Conserv. News 5(12):7. Mar.1,1951. 279.8 C768
- 44307 SUNJIC, J. Question d'élévation des zones forestières pour la défense du vent du domaine de Bijelo Polje et Bišće Polje, aussi que de Mostarsko Blato en Hercegovine. (In Croatian.) Biol. Inst. God. 2:129-133. 1949, pub. 1950. 442.9 Sa73
- 44308 U. S. FOREST SERV. Field offices of the United States Forest Service. Washington, 1950. 4 p. 1.962 A2F452
- 44309 U. S. FOREST SERV. P. W. I. standards (Regions 1-4 and 6). Washington? 1951. 112 p. 1.962 A2P948  
Project work inventory, Columbia Basin.
- 44310 U. S. FOREST SERV. INTERMOUNTAIN FOREST & RANGE EXPERIMENT STATION. Annual report, 1950. Ogden, Utah, 1951? 68 p. 1.9622 I2Au7
- 44311 U. S. FOREST SERV. SOUTHERN FOREST EXPERIMENT STATION. Thirtieth annual report, 1950. New Orleans, 1951? 90 p. 1.9 F7624
- 44312 VASIL'EV, P. Forest plantations and their importance in the construction of communism. (In Russian.) Bol'shevik 22(3):17-26. Feb.1951. 280.3 B633  
Policy.
- 44313 VIADO, J. Notes on reforestation in the Philippines. Filipino Forester 2:24-28. 1950. 99.8 F47
- 44314 VLASŮK, P. A., and BELOKON', I. P. Conference on afforestation of the steppes. (In Russian.) Priroda 39(9):89-92. Sept.1950. 410 P933
- 44315 WILCKENS, H. A. Wir forstleute und die presse. Forstl. Mitt. 3:185-186. Dec.5,1950. 99.8 F7725
- 44316 ZON, R. Forestry mistakes and what they have taught us. J. Forestry 49:179-183. Mar.1951. 99.8 F768
- 44320 GRACHEV, A. P. Regulations of timber cutting in forests on level ground in the U.S.S.R. n.d. 2 p. Translation 6451  
Translated from Lesnoye Khoziasstvo 5:49-54. 1950.
- 44321 HOLAND, P. Changes in forest protection legislation. (In Norwegian.) (Sum.) Skogbrukeren 26:29-30. Feb.15,1951. 99.8 Sk54
- 44322 LARSSON, E. Forest tax problems. (In Swedish.) Skogen [Oslo] 37:128\*-129\*. Dec.15,1950. 99.8 Sk51
- 44323 LUNDBERG, H. Critical observations on the application of the new forest protection law in Norrland. (In Swedish.) Skogen [Oslo] 37:249-251. Dec.1,1950. 99.8 Sk51
- 44324 NEWPORT, C. A. A summary of forest taxation laws by States. J. Forestry 49:196-200. Mar.1951. 99.8 F768
- 44325 PASSMANN, B. Neuerungen im steuerrecht. Allg. Forstz. 6:117-118. Mar.7,1951. 99.8 AL52
- Forest Description and Resources
- 44326 AKISOLA, J. A. In an Ijebu forest. Farm & Forest 10:8-10. 1950. 24 F226  
Nigeria.
- 44327 BOROVVOY, V. Y. Forestry in Poland. n.d. 2 p. Translation 6445  
Translated from Lesnove Khoziasstvo 4:60-61. 1950.
- 44328 BOROVVOY, V. Y. Forests of Korea. n.d. 3 p. Translation 6461  
Translated from Lesnove Khoziasstvo 10:61-62. 1950.
- 44329 BURKS, G. F., and POLI, A. Area and ownership of forest land in Siskiyou County, California. U. S. Forest Serv. Calif. Forest & Range Expt. Sta. Forest Survey Release 8,23 p. Dec.1950. 1.9 F7626F
- 44330 CHEVALIER, A. Sur l'existence d'une forêt vierge sèche sur de grandes étendues aux confins des bassins de l'Oubangui, du Haut-Charl et du Nil (Bahr-el-Ghazal). Acad. des Sci. Compt. Rend. 232:908-911. Mar. 1951. 505 P21
- 44331 FINCH, T. L. How fast is timber growing in eastern Montana? U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 88,7 p. Feb. 1951. 1.9622 N3R31
- 44332 GOLD COAST (COLONY) PUBLIC RELATIONS DEPT. Wealth in wood; a brief description of forestry and the timber industry in the Gold Coast. Accra, 1950. 23 p. 99.68 G563
- 44333 GUINAUDEAU, J. La forêt de Montargis. Rev. du Bois 6(2):3-7. Feb.1951. 99.82 R32
- 44334 HEDEMANN-GADE, E. A curious outcome of the census of the State forests in Småland. (In Swedish.) Skogsägaren 27:36-37. Feb.1951. 99.8 Sk55
- 44335 KLEHM, K. A. Lands of the U.S. Forest Service. Nowest.Wood Prod. Clinic. Proc. 5:17-21. 1950. 99.9 Sp6
- 44336 PARKER, R. Montana State public lands. Nowest.Wood Prod. Clinic. Proc. 5:9-12. 1950. 99.9 Sp6
- 44337 PATRIE, C. R. Lands of the U.S. Indian Service. Nowest.Wood Prod. Clinic. Proc. 5:12-16. 1950. 99.9 Sp6
- 44338 PINTO, A. Forest wealth of Angola. (In Portuguese.) Granja [Lisboa] 9:157-168. July/Sept.1950. 15.5 G76
- 44339 ROGERS, J. V. Washington State public lands. Nowest.Wood Prod. Clinic. Proc. 5:4-7. 1950. 99.9 Sp6
- 44340 SENCHUROV, K. T. Forests and forest industry of the Peoples Republic of China. n.d. 5 p. Translation 6459  
Translated from Lesnaya Promyshlennost 7:29-31. 1950.
- 44341 STEBBING, E. P. Forests catchment areas and water supplies. Indian Forester 77:5-23. (To be cont.) Jan.1951. 99.8 In2
- 44342 TKACHENKO, M. E. Forestry in Karelia Finnish Republic. n.d. 3 p. Translation 6438  
Translated from Lesnoye Khoziasstvo 10:18-22. 1949.
- 44343 U. S. FOREST SERV. National forest facts, Southwestern region, Arizona and New Mexico, 1951. Washington? 1951. 35 p. 1.9621 R35T2  
Forest resources and their management.
- 44344 VILETA, Y. Czechoslovak State Forests. n.d. 1 p. Translation 6458  
Translated from Interagra 1/4:79-86. 1950.
- Legislation and Taxation
- 44317 DISCUSSION of the forestry law. (In Swedish.) Skogen [Stockholm] 38:26-30,50-56,64. Feb.1-Mar.1, 1951. 99.8 Sk51  
Contributions by Lundberg, Magni, Y. Niklason, Hedemann-Gade, Streiffert, Welander and Romell.
- 44318 EBERTS, H. Forstgesetzgebung in Nordrhein-Westfalen. Allg. Forstz. 6:109-112. (To be cont.) Mar.7, 1951. 99.8 AL52
- 44319 FRAX BENEDI, E. Derecho administrativo forestal. Montes. IV. Los aprovechamientos forestales. B. de Divulg. Ganad. [Valladolid] 7:429-435. Dec.1950, 49.9 Sp12



44345 VINCENT, G., SPALEK, V., and POLNAR, M. Projet de division de la Bohême et de la Moravie en régions forestières. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 23:185-192. 1950. 19.5 C332C

French summary.

44346 WELSH, S. W. Wisconsin's forest inventory. Wis. Conserv. B. 16(3):3-8. Mar. 1951. 279.8 W752

44347 WOOZLEY, E. Idaho State public lands. Nowest. Wood Prod. Clinic. Proc. 5:7-9. 1950. 99.9 Sp6

#### Individual Genera and Species

44348 ARCHAMBAULT, P. M. Notre ami l'érable. Abeille et l'Erable (ser. 2) 20:22-24. Feb. 1951. 424.8 Ab32

44349 AUGHANBAUGH, J. E. The tuliptree: gentleman of the forest. Pa. Forests & Waters 3:14-17, 23-24. Jan./Feb. 1951. 99.8 P38

44350 BRODOVITCH, T. M. Douglas fir for planting in U.S.S.R. n.d. 1 p. Translation 6450

Translated from Lesnoye Khoz'istvo 5:43-45. 1950.

44351 BUCHHOLZ, E. Die sibirische lärche; eine "holzart der zukunft." Holz-Zentbl. 77:218. Feb. 13, 1951. 99.81 H742

In U.S.S.R.

44352 CATER, J. Njombe revisited. Gt. Brit. Colon. Devlpmt. Corp. Colon. Devlpmt. 1(4):22-23. Winter 1950/51. 280.9 G7933C

Wattle plantations.

44353 DUMAS, P. Les traitements en cours de végétation des noyers. Phytoma 4(22):14-21. Jan. 1951. 464.8 P563

44354 EVREINOFF, V. A. Notes sur le chêne-liège au Portugal. Rev. Internat. de Bot. Appl. et d'Agr. Trop. 30:636-637. Nov./Dec. 1950. 26 R323

44355 FISCHER, W. Bemerkenswerte exemplare von buchen. Kosmos 47:45. Jan. 1951. 474 K842

44356 JAYME, Die bedeutung des zugholzanteils in pappelhölzern. (Sum.) Angew. Chem. 63:98. Feb. 21, 1951. 384 Z33

44357 KANCHAVELI, G. I. Bambuk v SSSR. [Bamboo in U.S.S.R.]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 38 p. 97.47 K13

44358 LOBAEV, N. I. Oriental plane tree [Platanus orientalis]. (In Russian.) Lesn. Khoz. 3(9):60-61. Sept. 1950. 99.8 L5622

44359 MALEEV, V. P. Sequoia sempervirens and prospects for its cultivation in U.S.S.R. (In Russian.) Akad. Nauk SSSR. Bot. Inst. Trudy. Ser. 6. Introd. Rast. i Zelenoe Stroitel'stvo 1950:150-170. Ref. 451 Ak15

44360 NORMAND, J. Les lièges en Afrique du Nord. Bois et Scieries 57:103-105. Feb. 1, 1951. 99.81 B632

44361 NYGAARD, J. Giant trees in California; from a visit to Sequoia National Park. (In Norwegian.) Skogbrukeren 25:301-306. Dec. 15, 1950. 99.8 Sk54

44362 POTZGER, J. E., and CHANDLER, L. Beech in the forests about Laughery Creek Valley. Ind. Acad. Sci. Proc. (1949) 59:82-94. 1950. 500 In2

44363 ROL, R. L'aune à feuilles en coeur [Alnus cordata], essence de reboisement. Rev. Forest. Franç. 1951:89-95. Feb. 1951. 99.8 R329

44364 RUIZ ALARCO, F. E. El arbol del corcho. Vida Agr. [Lima] 28(326):47, 49, 51. Jan. 1951. 9.8 V66

Quercus suber.

44365 SANCHE, A. D. Observaciones sobre Eucalyptus globulus Labill. en el Partido de Loberfa. Soc. Rur. Argentina. An. 84(10):10-13. Oct. 1950. 9 Sol

44366 SCAMONI, A. Ein lärchenherkunftsversuch in Eberswalde und seine weitere entwicklung. Züchter 21:36-38. Ref. 1951. 442.8 Z8

44367 SCHINDLER, G. Anbau und verwertung der pappel. Neue Mitt. f. die Landwirt. 6:39. Jan. 20, 1951. 18 N39

44368 SOCIETY OF AMERICAN FORESTERS, WASHINGTON, D. C. NEW YORK SECT. Red pine in New York (Papers presented at winter meeting . . . Albany, December 9-10, 1949). Albany, 1950. 21 p. 99.47 Sol

44369 UKHANOV, V. V. Maples [Acer] of North America in the district of Leningrad and possibility of cultivating them in European U.S.S.R. (In Russian.) Akad. Nauk SSSR. Bot. Inst. Trudy Ser. 6. Introd. Rast. i Zelenoe Stroitel'stvo 1950:20-57. Ref. 451 Ak15

44370 WEST-NIELSEN, G. Austrian pine. (In Danish.) Dansk. Hedeselsk. Hedeselsk. Tidsskr. 72:7-15. Jan. 15, 1951. 11 H35  
In Austria.

#### FOREST MANAGEMENT AND FINANCE

44371 ALLEN, G. S., GRIFFITH, B. G., and KER, J. W. A comparison of several regeneration survey methods in terms of cost and usefulness. Brit. Columbia Lumberman 35(3):66, 68, 89-90, 92, 94, 96. Mar. 1951. 99.81 B77

44372 ARNSWALDT, H. J. VON. Wertkontrolle in laubholzrevieren. Forstarchiv 21:130-135. Dec. 15, 1950. 99.8 F7723

44373 BILLINGS, R. Problems in large industrial tracts. Nowest. Wood Prod. Clinic. Proc. 5:25-27. 1950. 99.9 Sp6

44374 BOWSER, D. C. Private forestry in Scotland. Scot. Forestry 5:10-16. Jan. 1951. 99.8 Sco3

44375 BRODIE, J. A. Timber management in Ontario. Canad. Geog. J. 42:100-117. Mar. 1951. 470 C162

44376 CHATELAIN, F. Passage à la futaie et production dans les futaies jardinees. Rev. Forest. Franç. 1951:180-193. Mar. 1951. 99.8 R329

44377 DÖSCHER, F. Erfahrungen bei dem bau von hanggräben. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:286. Feb. 22, 1951. 18 L2346

44378 GOTHE, H. Von der mentalität des forstlichen betriebsleiters bei der jährlichen betriebswirtschaftlichen planungsarbeit. Allg. Forst- u. Jagdztg. 122:64-67. 1950. 99.8 AL3

44379 HAGENSTEIN, W. D. Tree farming in the Douglas fir region. Brit. Columbia Lumberman 35(3):62, 64, 102, 104. (To be cont.) Mar. 1951. 99.81 B77

44380 LEHMANN, Einheitsliche buchführung in der forstwirtschaft. Forstwirt. Holzwirt. 4:374-376. Dec. 1/15, 1950. 99.8 F7793

44381 LEUSCHEL, O. H. The past, present and future of inland Empire associated species. Nowest. Wood Prod. Clinic. Proc. 5:1-3. 1950. 99.9 Sp6

44382 MALLET, J. Une méthode d'aménagement simple. Rev. Forest. Franç. 1951:110-115. Feb. 1951. 99.8 R329

44383 NIKLAS, W. Wald, wild und heimat. Holz-Zentbl. 77:185. Feb. 8, 1951. 99.81 H742

Chiefly on forest management.

44384 NOTES on forest activities in various countries n.d. 1 p. Translation 6466

Translated from Lesnoye Khoz'istvo 8:91. 1950.

Hungary.

44385 PANS, H. M. Line clearing in forests. (In Norwegian.) Skogbrukeren 26:30-31. Feb. 15, 1951. 99.8 Sk54

For electric lines.

44386 PUTNAM, J. A. Management of bottomland hardwoods. U. S. Forest Serv. South. Forest Expt. Sta. Occas. Paper 116, 60 p. Mar. 1951. 1.9 F76240

44387 RODARY, L'Instruction des ouvriers forestiers dans le Bade Sud. Rev. Forest. Franç. 1951:116-123. Feb. 1951. 99.8 R329

44388 SKOLD, P. Reflection on the labor problem. (In Swedish.) Skogen [Stockholm] 38:57, 64. Mar. 1, 1951. 99.8 Sk51

Forest.

44389 STEVEN, H. M. Private enterprise in forestry—past and present. Scot. Forestry 5:6-9. Jan. 1951. 99.8 Sco3

44390 ŚWIADER, J. On the formation of timber prices and the value of forests as conditioned by the economic structure. 2. (In Polish.) Sylwan 94(3):98-103. 1950. 99.8 Sy52

English summary.

44391 THOMPSON, A. E. Forest management on the Cedar River watershed. J. Forestry 49:201-205. Mar. 1951. 99.8 F768

44392 WARE, G. G. Bankers' blind spots in forestry. Paper Trade J. 132(13):22, 24. Mar. 30, 1951. 302.8 P196

#### Farm Woodlands

44393 GRIGOR'EV, V. Greater attention to collective farm forests. (In Russian.) Lesn. Khoz. 3(9):90. Sept. 1950. 99.8 L5622

44394 KONEV, G. I. Pinus cembra sibirica—into the shelterbelts. (In Russian.) Lesn. Khoz. 3(9):83-84. Sept. 1950. 99.8 L5622

44395 LUCAS, B. F. What can be expected from farm woodlots? N. Y. Agr. Col. Farm Econ. 178:4626-4629. Feb. 1951. 280.8 C812

Management.



- 44396 LUNNUM, K. Problems of the small woodland owner. *Nowest.Wood Prod. Clinic. Proc.* 5:22-25. 1950. 99.9 Sp6
- 44397 RICHARDSON, R. Tree farming in Pennsylvania. *Rur. New-Yorker* 101:163,169. Mar.3,1951. 6 R88
- 44398 THOMAS, H. Waldmantel. *Forstwirt. Holzwirt.* 4:383-384. Dec.1/15,1950. 99.8 F7793
- 44399 THOMAS, J. Trees for farm planting. *So. Austral. Dept. Agr. J.* 54:269-271. Jan.1951. 23 So84
- 44400 THON, K. A. Farm forests and farm nurseries. (In Norwegian.) *Skogbrukeren* 25:308-311. Dec.15, 1950. 99.8 Sk54
- 44401 U. S. FOREST SERV. Norris-Doxey farm woodland management project; semiannual report July 1, 1950-January 1, 1951. Washington, 1951. 1 p. 1.962 C5Se5

### Mensuration

- 44402 BICKFORD, C. A. Form-class volume tables for estimating board-foot content of northern conifers. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 38, 86 p. Jan.1951. 1.9622 N2St22
- 44403 BOURGNOT, L. Production et accroissement. *Rev. Forest. Franç.* 1951:166-179. Mar.1951. 99.8 R329
- 44404 BURNS, G. H. A new method of volume regulation. *J. Forestry* 49:272-277. Apr.1951. 99.8 F768
- 44405 LOETSCH, F. Über die abhängigkeit der kiefern-rindenstärke von durchmesser und alter. *Allg. Forst- u. Jagdztg.* 122:58-62. 1950. 99.8 AL3
- 44406 LOETSCH, F. Zur methode einer qualitativen holzvorratsinventur der kiefer. *Forstarchiv* 21:127-130. Dec.15,1950. 99.8 F7723
- 44407 MIKHEEV, S. D. Tables of *Euonymus europaeus* rate of growth. (In Russian.) *Lesn. Khoz.* 3(9):56-57. Sept.1950. 99.8 L5622
- 44408 MOISEENKO, F. P. On the cutting age of the stand. (In Russian.) *Lesn. Khoz.* 3(9):79-80. Sept.1950. 99.8 L5622
- Increment tables.
- 44409 SETH, S. K. A scheme for partial enumerations in the hills. *Indian Forester* 77:24-25. Jan.1951. 99.8 In2
- 44410 WACHTER, H. Wuchsleistungen männlicher und weiblicher eschen. *Forstwirt. Holzwirt.* 4:336-339. Nov.1/15,1950. 99.8 F7793
- 44411 WECK, J. Wieserziffern aus wachstumsabläufen; vergleichende analysen aus bohrspänen und stammsscheiben. *Forstarchiv* 21:121-127. Dec.15,1950. 99.8 F7723

### Aerial Surveying and Photography

- 44412 OLENUS, L. Aerial photographs in the forestry of North Finland. (In Finnish.) *Metsätaloudellinen Aikakauslehti* 1951:25-26. 99.9 F49
- English summary.

### Silviculture

- 44413 BACH, R. Die standorte jurassischer buchenwaldgesellschaften mit besonderer berücksichtigung der böden (humuskarbonatböden und Rendzinen). Schweiz. Bot. Gesell. Ber. 60:51-152. Ref. 1950. 451 Sch9
- 44414 BÅNG, F. Improved silviculture. (In Swedish.) *Skogen [Oslo]* 37:257. Dec.1,1950. 99.8 Sk51
- 44415 BERGER, F., and others. Waldbau. Zollikofen, Oekonomische und Gemeinnützige Gesellschaft des Kantons Bern, 1950. 24 p. 58 B453
- F. Ingold, H. Arni, and H. Bieri, joint authors.
- 44416 BRAUNS, A. Ein beitrag zum problem "ertragssteigerung"; die bedeutung bodenzoologischer forschungen für die forstwirtschaft. *Norddeut. Holzwirt.* 5(4):8-9. Ref. Jan.25,1951. 99.82 N75
- 44417 CHERNIKOV, F. S. Silviculture on Solonetz soils. (In Russian.) *Lesn. Khoz.* 3(9):84. Sept.1950. 99.8 L5622
- 44418 DELISLE, R. La sylviculture. *Forêt et Conserv.* 3(2):79-80. Feb.1951. 99.8 F792
- 44419 EITTINGEN, G. R. Survival of [Pinus] trees in the forest. (In Russian.) *Agrobiologifä* 1950(6):42-56. Nov./Dec.1950. 20 Ag822
- 44420 FIELDING, J. M. The Institute of Forest Genetics. *Austral. Forestry* 14:43-46. 1950. 99.8 Au74
- U. S. Dept. of Agriculture Forest Service, Institute of Forest Genetics at Placerville, California.

- 44421 FRIESNER, R. C. Growth-rainfall trend-coefficients shown by six species of hardwoods in Brown County, Indiana. (Abs.) *Ind. Acad. Sci. Proc.* (1949)59:42-43. 1950. 500 In2
- 44422 GULISASHVILI, V. Z. In regard to the nature of self-thinning in forest tree associations. (In Russian.) *Agrobiologifä* 1950(6):66-69. Nov./Dec.1950. 20 Ag822
- 44423 HAUFF, R., SCHLENKER, G., and KRAUSS, G. A. Zur standortsgliederung im nördlichen Oberschwaben. *Allg. Forst- u. Jagdztg.* 122:37-53. (Concl.) Ref. 1950. 99.8 AL3
- 44424 MALIUGIN, T. T. KHTZ-7 tractor in silvicultural work. (In Russian.) *Lesn. Khoz.* 3(9):74-76. Sept.1950. 99.8 L5622
- 44425 NOVIKOV, A. Cultivation of *Morus sibirica* in Kuibyshev Region. (In Russian.) *Lesn. Khoz.* 3(9):85. Sept.1950. 99.8 L5622
- 44426 PAVARI, A. Forest genetics. (In Italian.) *Cong. Agr. Naz. Atti* 1948:437-460. Ref. 1950. 27 C7625
- 44427 PEARSON, G. A. A comparison of the climate in four ponderosa pine regions. *J. Forestry* 49:256-258. Apr.1951. 99.8 F768
- 44428 PICCAROLO, G. Poplar culture in the Province of Rovigo. (In Italian.) *Rass. Econ. del Polesine (n.s.)* 4(11/12):226. Nov./Dec.1950. 280.8 R183
- 44429 RUDOLF, P. O. Stand density and the development of young jack pine. *J. Forestry* 49:254-255. Apr.1951. 99.8 F768
- 44430 SATO, K. Zaimoku ikushu [Breeding of trees]. Tokyo, Asakura Shoten, 1949-50. 2 v. (Rinmoku Ikushu No. 5) 99.47 Sa8
- 44431 SCHULENBURG, A. F., GRAF, V. D. Questions of provenance with relation to pulpwood. *Paperi ja Puu.* B 32:387-392. 1950. 302.8 P1991
- Growing Picea.
- 44432 SEREVO, T. S. Silvicultural observations in the cut-over areas of the Nasipit Lumber Company in Agusan. *Filipino Forester* 2:29-50. Ref. 1950. 99.8 F47
- 44433 TAMM, O. Principles of classification of forest sites in Sweden by examination of the soil. *Internatl. Cong. Soil Sci. Trans.* 4(1):364-367. Ref. 1950. 56.09 In844
- 44434 TUXEN, R. Observations on Irish woodland associations, with special reference to practical forestry. *Irish Nat. J.* 10:99-104. Ref. Oct.1950. 410 Ir42
- 44435 WITTE, A. Research in forest genetics. (In Swedish.) *Skogsägaren* 27:33-36. Feb.1951. 99.8 Sk55

### Silvicultural Practices

- 44436 BROOKS, R. O. Thinning red pine. *Pa. Forests & Waters* 3:10-11,22-23. Jan./Feb.1951. 99.8 P38
- 44437 CHAPMAN, H. H. More about pines and fire. *J. Forestry* 49:285-286. Apr.1951. 99.8 F768
- 44438 D'IACHENKO, A. E. Care of the young shelterbelt plantings. (In Russian.) *Lesn. Khoz.* 3(7):25-30. July 1950. 99.8 L5622
- 44439 FORTUNATOV, N. I. Cultivation of *Pinus* with *Quercus* [to develop pine-oak plantations]. (In Russian.) *Lesn. Khoz.* 3(9):58-59. Sept.1950. 99.8 L5622
- 44440 FRITZ, E. Some principles governing the growing of redwood crops. *J. Forestry* 49:263-266. Apr.1951. 99.8 F768
- 44441 HALLIN, W. E. Unit area control in California forests. U. S. Forest Serv. Calif. Forest & Range Expt. Sta. Forest Res. Note 77.6 p. Mar.15,1951. 1.9 F7626R
- 44442 ILMURZYNSKI, E. Jardinage cutting in Poland. (In Polish.) *Sylwan* 94(3):19-24. 1950. 99.8 Sy52
- English summary.
- 44443 JOLLY, N. W. The thinning of *Pinus radiata* plantations in the south-east of South Australia. *So. Austral. Woods & Forests Dept. B.* 4,27 p. 1950. 99.9 So8
- 44444 LA FOUCHARDIERE, DE. Un bel exemple de conversion en futaie dans une forêt particulière: la Forêt de Beffou. *Rev. Forest. Franç.* 1951:214-217. Mar.1951. 99.8 R329
- 44445 LANGE, K. D. Effects of clearcutting understory hardwoods on the growth of a shortleaf-Virginia pine stand. *J. Forestry* 49:176-178. Mar.1951. 99.8 F768
- 44446 MANN, W. F., JR. Profits from release of loblolly and shortleaf pine seedlings. *J. Forestry* 49:250-253. Apr.1951. 99.8 F768



44447 MORAWSKI, S. Nouvelles idées dans l'élevage de peuplements. (In Polish.) Sylwan 94(3):37-48. 1950. 99.8 Sy52

French summary.

44448 MÜLLER, R. Der sinn des pappelmartenketts. Allg. Forstz. 6:112-113, 115-116. Ref. (Concl.) Mar. 7, 1951. 99.8 AL52

44449 OLBERG. Die durchforstung der kiefer. Forstwirt. Holzwirt. 4:348-350. Nov. 1/15, 1950. 99.8 F7793

44450 POPOV, V. V. Influence of thinnings upon accumulation and thawing of snow. Feb. 1950. 1 p. Translation 6439

Translated from Lesnoye Khoziasstvo 10:75-99. 1949.

44451 WEAVER, H. Observed effects of prescribed burning on perennial grasses in the ponderosa pine forests. J. Forestry 49:267-271. Apr. 1951. 99.8 F768

### Seeding and Planting

44452 ABRAMOVICH, K. K. Experiment in seeding Quercus in spots. (In Russian.) Agrobiologiya 1950(6): 78-85. Nov./Dec. 1950. 20 Ag822

44453 ADAMS, A. J. S. Pine seed production and collection in the south-east of South Australia. Austral. Forestry 14:30-38. 1950. 99.8 Au74

44454 BOHM. Das pflanzenloch-bohrgerät, ein motorisiertes kleingerät für die forstwirtschaft. Allg. Forstz. 6:100-102. Feb. 28, 1951. 99.8 AL52

44455 CARPENTER, I. W. Possibilities of hybrid vigor in Liriodendron tulipifera. (Abs.) Ind. Acad. Sci. Proc. (1949) 59:41. 1950. 500 In2

44456 DANFEL'D, P. For a more daring introduction of maples [Acer]. (In Russian.) Lesn. Khoz. 3(9):35-41. Sept. 1950. 99.8 L5622

44457 DENUYL, D. Natural regeneration from planted conifers in Indiana. Ind. Acad. Sci. Proc. (1949) 59:59-63. 1950. 500 In2

44458 EISENHUT, G. Erfahrungszahlen bei der buchenwildlingspflanzung. Allg. Forstz. 6:102. Feb. 28, 1951. 99.8 AL52

44459 FOWELLS, H. A., and SCHUBERT, G. H. Natural reproduction in certain cutover pine-fir stands of California. J. Forestry 49:192-196. Mar. 1951. 99.8 F768

44460 FRANSSON, P. Stronger pine plants from hormone treated seeds. (In Swedish.) Skogen [Stockholm] 38:25. Feb. 1, 1951. 99.8 Sk51

44461 FRITZSCHE. Gedanken zum kiefernzapfenjahr 1950. Forstwirt. Holzwirt. 4:379-380. Dec. 1/15, 1950. 99.8 F7793

Germany.

44462 GLUTZKY, I. I. Survival of seedlings. n.d. 2 p. Translation 6442

Translated from Lesnoye Khoziasstvo 10:81. 1949.

44463 GOL'DIN, I. L. Introduction of exotic trees into the centre of European USSR. (In Russian.) Lesn. Khoz. 3(9):81-83. Sept. 1950. 99.8 L5622

44464 HARA, K. Sabo zarin [Afforestation for the sand dune control]. Tokyo, Asakura Shoten, 1950. 257 p. (Zorin-gaku Zensho, No. 6) 99.47 H212

44465 HENGST, X. Die geissfusspflanzung (lochhalb-hügelpflanzung). Allg. Forstz. 6:92-93. Feb. 28, 1951. 99.8 AL52

44466 HILF, H. H. Prüfung forstlicher sämaschinen. Allg. Forstz. 6:96-98. Feb. 28, 1951. 99.8 AL52

44467 IAKOVLEV, M. I. Temporary row screens. (In Russian.) Lesn. Khoz. 3(9):81. Sept. 1950. 99.8 L5622

Corn and sunflower as windbreaks for forest nurseries.

44468 KERNAN, H. S. Tree planting time. Rur. New-Yorker 101:252-253. Apr. 7, 1951. 6 R88

44469 KHARLAMOV, G. I. We shall carry out the stocking up of forest seed on a high level. (In Russian.) Lesn. Khoz. 3(9):62-67. Sept. 1950. 99.8 L5622

44470 KOLCHIN, A. I. Accelerated snow-removal and its application. n.d. 2 p. Translation 6447

Translated from Lesnoye Khoziasstvo 3:69-73. 1950.

For forest planting.

44471 LENTZ, A. Caution your farmers to plant seedling trees carefully. Better Farming Methods 23(3): 74-75. Mar. 1951. 58.8 B46

44472 LÜCKE. Vegetative vermehrung von graupap-peln und aspen im absenkerverfahren. Allg. Forstz. 6: 87-89. Feb. 28, 1951. 99.8 AL52

44473 LYSENKO, T. D. On a partial change in the 1950 instruction on sowing shelterbelts by the group method. (In Russian.) Agrobiologiya 1950(6):26-27. Nov./Dec. 1950. 20 Ag822

Also in Lesn. Khoz. 3(9):27-28. Sept. 1950. 99.8 L5622

44474 MELIKHOV, P. S. We are organizing forest seed enterprises. (In Russian.) Lesn. Khoz. 3(9):68-73. Sept. 1950. 99.8 L5622

44475 MINCKLER, L. S. Fall planting can be successful. J. Forestry 49:284-285. Apr. 1951. 99.8 F768

44476 MINCKLER, L. S. Fall planting of pine on upland soils of southern Illinois. U. S. Forest Serv. Cent. States Forest Expt. Sta. Tech. Paper 118, 11 p. Feb. 1951. 1.9622 C3T222

44477 PARKER, J. Natural reproduction from red-cedar. J. Forestry 49:285. Apr. 1951. 99.8 F768

44478 PISANO V., E. Observaciones sobre la renovación del bosque de laurel y ulmo en la región del Lago Llanquihue. Chile. Dir. Gen. de Agr. Agr. Tec. 10:22-31. June 1950. 464.9 C432B

English summary.

44479 POURTET, J. La réglementation du commerce des semences et plants forestiers. Rev. Forest. Franç. 1951:96-102. Feb. 1951. 99.8 R329

44480 PRIEHAUSSER, G. Über das biologisch einwandfreie pflanzen der fichte. Allg. Forstz. 6:86-87. Feb. 28, 1951. 99.8 AL52

44481 PURVIN', P. I. A forest seed planter. (In Russian.) Lesn. Khoz. 3(9):77-78. Sept. 1950. 99.8 L5622

44482 RAZOUS, P. Les boisements de Champagne. Bois et Scleries 57:95, 97, 99. Feb. 1, 1951. 99.81 B632

44483 ROHMEDER, E. Der einfluss von steckzeit, stecklingsstärke, stecklingslänge und bedeckungstiefe bei der anzucht der pappeln aus stecklingen. Allg. Forstz. 6:89-91. Feb. 28, 1951. 99.8 AL52

44484 ROHMEDER, E. Forstsaatgutgewinnung aus samenplantagen. Allg. Forstz. 6:98-100. Feb. 28, 1951. 99.8 AL52

44485 ROHMEDER, M. Die vorgeschichte des forstlichen saatgutes. Allg. Forstz. 6:103-104. Feb. 28, 1951. 99.8 AL52

44486 SCHULZE, H. The Douglas problem illustrated from available Danish provenance literature. (In Danish.) Dansk Skovfor. Tidsskr. 36:71-78. Ref. Feb. 1951. 99.8 D23

44487 SHIMANIÜK, A. P. Regeneration of formerly plowed land with Pinus and Picea. (In Russian.) Lesn. Khoz. 3(9):50-52. Sept. 1950. 99.8 L5622

44488 SHTERENBERG, P. M. Effect of cover crops on growth of Quercus seedlings in the group plantings. (In Russian.) Agrobiologiya 1950(6):131-135. Nov./Dec. 1950. 20 Ag822

44489 SSORIN, V. A. Forest regeneration in the Abies forests of Upper Svanetia. (In Russian.) Lesn. Khoz. 3(9):42-45. Sept. 1950. 99.8 L5622

44490 SURBER, E. Anlage und pflege von saaten in schweizer waldpflanzgärten. Allg. Forstz. 6:85-86. Feb. 28, 1951. 99.8 AL52

44491 TYSZKIEWICZ, S. Préparation des graines pour la semis, facteur important de la culture. (In Czech.) Sylwan 94(3):25-36. 1950. 99.8 Sy52

French summary.

44492 U. S. FOREST SERV. Summary of distribution of forest planting stock by States for fiscal year 1950. U. S. Forest Serv. Tree Planters' Note 3, 2 p. Feb. 1951. 1.962 C5T71

44493 VASIL'EV, I. A. Plantings of European larch [Larix decidua] in Porech'e, Uvarov District in Moscow Region. (In Russian.) Akad. Nauk SSSR. Bot. Inst. Trudy. Ser. 6. Introd. Rast. i Zelenoe Stroitel'stvo 1:58-78. Ref. 1950. 451 Ak15

44494 ZAHOROVSKY, E. P. To place the knowledge of forest seed on a solid scientific foundation. n.d. 2 p. Translation 6460

Translated from Lesnoye Khoziasstvo 7:5-8. 1950.

### Forest Protection and Damage

44495 CLAESON, G. Snow break in the forest. (In Swedish.) Skogen [Stockholm] 38:33. Feb. 1, 1951. 99.8 Sk51

44496 DELISLE, R. La forêt ne doit pas servir de pâturage. Abeille et l'Erable (ser. 2) 20:24. (To be cont.) Feb. 1951. 424.8 Ab32



- 44497 MAKI, T. E., and MANN, W. F., JR. Some effects of sheep grazing on longleaf pine. *J. Forestry* 49: 278-281. Apr. 1951. 99.8 F768
- 44498 METCALF, M. E. Importance and causes of timber mortality in eastern Montana forests. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 93, 4 p. Mar. 1951. 1.9622 N3R31

### Fire

- 44499 ANDRUS, S. R. Permanent towers protect our western forests. *Wood Preserv. News* 29:15, 28. Feb. 1951. 300.8 W853
- 44500 ARKHIPOV, and LAVRENT'EV. On carrying out fire-fighting measures [in forests]. (In Russian.) *Lesn. Khoz.* 3(9):87. Sept. 1950. 99.8 I.5622
- 44501 DAVIS, C. Smokey is convincing a nation: only you can prevent forest fires. *Amer. Forests* 57(4):6-10, 40-41. Apr. 1951. 99.8 F762
- 44502 LETKOVSKY, A. I. Silviculture in the service of fire protection. n.d. 2 p. Translation 6454  
Translated from *Lesnoye Khoziasstvo* 6:54-56. 1950.
- 44503 LULL, H. W. Forest fire smoke of September 1950. *J. Forestry* 49:286. Apr. 1951. 99.8 F768
- 44504 ROWLAND, H. B., and SMITH, W. H. Reclaiming "Pennsylvania's desert." *Pa. Forests & Waters* 3:4-7, 20-21. Jan./Feb. 1951. 99.8 P38  
Chiefly in the control of forest fire.
- 44505 SELLON, F. Défense des forêts contre l'incendie. *Rev. Agr. de l'Afrique du Nord* 49:14-16. Jan. 5, 1951. 80 R326
- 44506 SOKOLOV. Stationary forest smoking rooms. n.d. 1 p. Translation 6452  
Translated from *Lesnoye Khoziasstvo* 6:88. 1950.
- 44507 U. S. FOREST SERV. SOUTHEASTERN FOREST EXPERIMENT STATION. Pasture firelanes. *J. Forestry* 49:249. Apr. 1951. 99.8 F768
- 44508 WESTCOTT, J. C., and CLEARY, V. P. An account of the use of the helicopter in fire suppression work in the Victorian mountain forests. *Austral. Forestry* 14:11-16. 1950. 99.8 Au74

### Forest Influences

- 44509 CROFT, A. R., and HOOVER, M. D. The relation of forests to our water supply. *J. Forestry* 49:245-249. Apr. 1951. 99.8 F768
- 44510 FUCHS, H. Zur wasserstandsfrage und wasserpflege. 5. *Forstl. Mitt.* 3:186-187. Dec. 5, 1950. 99.8 F7725
- 44511 GAVRIKOV, K. A. Effect of different forest cultures upon soil. n.d. 2 p. Translation 6446  
Translated from *Lesnoye Khoziasstvo* 3:30-35. 1950.
- 44512 GOLUBINSKIY, S. S. Drought and conservation by planting forests. (In Russian.) *Priroda* 39(9):37-40. Sept. 1950. 410 P933  
Effect of shelterbelts on yields of grain chiefly.
- 44513 LACOURLY, G. Les forêts au service de l'agriculture dans la lutte contre l'érosion. *Almanach Agr. Tunisie* 1951:201-211. 24 AL6
- 44514 RAGUE MIR, J. Utilidad de los bosques. *Cult. Mod.* 34:18-19. Jan. 1951. 15 C89
- 44515 SARTZ, R. S. The October floods of southwestern Oregon—some observations and speculations. *J. Forestry* 49:189-191. Mar. 1951. 99.8 F768  
Forest influences.
- 44516 U. S. S. R. SOVET MINISTROV. Report of progress on the project decreed on 20 Oct. 1948. n.d. 2 p. Translation 6464  
Translated from *Lesnoye Khoziasstvo* 5:5-15. 1950.  
Modifying the climate of the prairie region.

### Miscellaneous Forest Uses

- 44517 ARNST, A. Tree farm parks. *Amer. Forests* 57(4):20-21, 34, 38. Apr. 1951. 99.8 F762
- 44518 KROLL, Zu "Das wild im Wirtschaftswald" in nr. 19/20 vom 1. bis 15. oktober 1950. *Forstwirtschaft.* 4:382-383. Dec. 1/15, 1950. 99.8 F7793  
Germany.
- 44519 RIEBEN, E. La réserve forestière de la Roche des Arcs. *Schweiz. Nat. Schutz.* 17:22-24. Feb. 1951. 279.8 Sch9
- 44520 U. S. FOREST SERV. Recreation use on National forests, 1950. Washington, 1951? 2 p. 1.9 F76Ru

### FOREST INDUSTRIES

- 44521 BASSETT, E. W. The sale of crown timber in British Columbia. (Sum.) *Pulp & Paper Mag. Canada* 52(3):274-276, 279, 281-282, 286, 288. Convention 1951. 302.8 P96
- 44522 BROUSSON. Les ventes de coupes de bois de l'exercice 1950 dans les forêts soumises au régime forestier. *Rev. Forest. Franç.* 1951:194-213. Mar. 1951. 99.8 R329
- 44523 CRAWFORD, A. W. The sawmill's marketing problems. *Nowest. Wood Prod. Clinic. Proc.* 5:38-40. 1950. 99.9 Sp6
- 44524 DUBRET, R. Perspectives. *Bois et Scieries* 57:93-95. Feb. 1, 1951. 99.81 B632
- 44525 FAFARD, A. La vente des coupes de bois. *Terre de Chez Nous* 23(5):28. Mar. 28, 1951. 7 T27  
Canada.
- 44526 FEDERICO, S. New orientation in the matter of wood production. (In Italian.) *Indus. del Legno* 2(10): 22-24. Oct. 1950. 99.82 In2
- 44527 GRIFFEE, W. E. Prospective lumber demand for 1951. *Calif. Lumber Merchant* 29(18):38, 43. Mar. 15, 1951. 99.81 C12
- 44528 HAGENSTEIN, W. D. Merchandising forestry in the Douglas-fir region. *J. Forestry* 49:206-207. Mar. 1951. 99.8 F768
- 44529 KIRSCHFELD, P. Freier oder sozialer holzmarkt? *Holz-Zentbl.* 77:185-186. Feb. 8, 1951. 99.81 H742
- 44530 KIVINEN, L. Forest industry of northern Finland. (In Finnish.) *Metsätaloudellinen Aikakauslehti* 1951:4, 24. 99.9 F49  
English summary.
- 44531 MARTIN, C. S. Conservation and the forest products industries. *Weyerhaeuser News* 16:12-13. Feb. 1951. 99.81 W54
- 44532 ORGANISATION FOR EUROPEAN ECONOMIC COOPERATION. Possibilities of increasing the use of tropical timber. Paris, 1950? 95 p. 99.76 Or33
- 44533 REECE, P. O. No substitute for timber. *Brit. Columbia Lumberman* 35(3):79-81. Mar. 1951. 99.81 B77
- 44534 SCHULTZ, D. G. Trends and major problems in wholesaling. *Nowest. Wood Prod. Clinic. Proc.* 5:47-49. 1950. 99.9 Sp6
- 44535 SENCHUROV, K. Market of forest and cellulose-paper products of capitalist countries. (In Russian.) *Vnesn. Torg.* 21(1):25-31. Jan. 1951. 286.8 F762
- 44536 SKADE, H. N., and LUND, A. Danish lumber industry 1949. (In Danish.) *Dansk Skovfor. Tidsskr.* 36: 79-90. Feb. 1951. 99.8 D23
- 44537 STAMPER, A. B. The sales program of the concentration yard. *Nowest. Wood Prod. Clinic. Proc.* 5: 40-46. 1950. 99.9 Sp6  
Includes discussion.
- 44538 STEWART, W. F. Retailing the associated species. *Nowest. Wood Prod. Clinic. Proc.* 5:49-51. 1950. 99.9 Sp6

### Lumbering

- 44539 BERG, E. Efficient rules for logging, marketing and transportation of wood from our forests. (In Norwegian.) *Skogbruken* 26:9-10. Jan. 1, 1951. 99.8 Sk54  
Chiefly transportation.
- 44540 DJURBERG, G. Handling of lumber. (In Swedish.) (Sum.) *Skogen [Stockholm]* 38:60-62. Mar. 1, 1951. 99.8 Sk51
- 44541 GOULET, E. R. What I consider an ideal woods accident prevention program. *Pulp & Paper Mag. Canada* 52(4):108-110, 113. Mar. 1951. 302.8 P96
- 44542 LOCKARD, C. R. Hardwood log grading—a phase of quality control. *South. Lumberman* 182(2279):84, 86, 88, 90. Mar. 15, 1951. 99.81 So82
- 44543 MEYER-BRENNEN. Zur zweckmässigsten ausschüttungsform des stammholzes. *Holz-Zentbl.* 77:101-102. Jan. 23, 1951. 99.81 H742



Lumbering Equipment

- 44544 BROCH, R. The motor saw in forestry. (In Norwegian.) Landbrukstidende 57:63-65. Jan.24,1951. 11 L236
- 44545 COLLINS, T. E. The Berger-Rees air-tong loader combines safety with efficiency in log loading. Wash. Inst. Forest Prod. New Wood-Use Ser. C. 11,7 p. Jan.1951. 99.9 W278N
- 44546 EBERT, F. A. Das schärfen der kreissägeblätter. Norddeut. Holzwirt. 5(5):4. Feb.1,1951. 99.82 N75
- 44547 KANTOLA, M. Loading machinery for lumber trucks. (In Finnish.) Teho 1950(11):9-16. 20 T98  
English summary, p. 66.
- 44548 LOVRIC, N. Some cranes connected with use of skidders. (In Croatian.) Šumarski List 74:487-498. Dec.1950. 99.81 Su6
- 44549 OKSA, E. Felling and splitting axes developed. (In Finnish.) Teho 1950(11):48-52. 20 T98  
English summary, p. 66.
- 44550 SAXHAUG, J. Forest worker's tools and their care. (In Norwegian.) Landbrukstidende 57:6-7. (Cont.) Jan.3,1951. 11 L236
- 44551 SCHMIDT, W. Theorie und praxis der schwenkschliff-sägemaschinen. Holz-Zentbl. 77:251. Feb.20,1951. 99.81 H742

Logging

- 44552 BENNETT, A. F. Crabwood through Camaria. Gt. Brit. Colon. Devlpmt. Corp. Colon. Devlpmt. 1(4):24-25. Winter 1950/51. 280.9 G7933C  
Logging.
- 44553 BROCH, R. Logging investigations in Norwegian spruce forests. (In Norwegian.) Skogbrukeren 26:1-4,6-8. Jan.1,1951. 99.8 Sk54
- 44554 DURST, J. Beiträge der holzwerbmethode zur erhöhung der rohholzausbeute. Forstwirt. Holzwirt. 4:359-363. Dec.1/15,1950. 99.8 F7793  
Germany.
- 44555 FRÖHLICH. Gesundschneiden — aber richtig! Holz-Zentbl. 77:249-250. Feb.20,1951. 99.81 H742
- 44556 GLASER, H. Arbeitsverbilligung beim motorsägeneinsatz im hauungsbetrieb durch lang- und baumholzlücken. Forstarchiv 21:135-141. Dec.15,1950. 99.8 F7723
- 44557 HAKKARAINEN, A. E. Ground frost as winter road foundation. (In Finnish.) Teho 1950(11):39-45. 20 T98  
English summary, p. 66.
- 44558 KANTOLA, M. Lopping felled trees; new felling techniques. (In Finnish.) Teho 1950(11):29-32. 20 T98  
English summary, p. 66.
- 44559 KANTOLA, M., and GRANVIK, B. A. A new logging technique. (In Swedish.) Skogsägaren 27:15-21. Jan.1951. 99.8 Sk55  
Finland.
- 44560 LEMAY, P. V. Bundle skidding at Marathon. Pulp & Paper Mag. Canada 52(3):256,259,261-262. Convention 1951. 302.8 P96
- 44561 PUTKISTO, K. Winter roads for motor vehicles and their buildings. (In Finnish.) Teho 1950(11):20-28. 20 T98  
English summary, p. 66.  
Truck roads for winter hauling of timber.
- 44562 SIMOLA, P. Making of cordwood into piles along logging roads. (In Finnish.) Metsätaloudellinen Aikakauslehti 1950:387-390. 99.9 F49  
English summary.
- 44563 STAMM, E. P. Power vs. hand falling and bucking in logging operations of the West. Pulp & Paper Mag. Canada 52(4):114,117. Mar.1951. 302.8 P96
- 44564 UGGEN, O. From Canada. (In Norwegian.) Skogbrukeren 26:36-37. Feb.15,1951. 99.8 Sk54  
Logging.
- 44565 ZAYZEV, A. I., and ILIA, B. Windlass hauling of whole trees with branches uncut. n.d. 2 p. Translation 6456  
Translated from Lesnaya Promyshlennost 6:4,5. 1950.

Sawmills

- 44566 ELLIS, E. L. Remanufacturing problems. Nowest.Wood Prod. Clinic. Proc. 5:30-32. 1950. 99.9 Sp6  
Reworking various western woods.
- 44567 HICKEY, J. L. Sorting, seasoning and milling. Nowest.Wood Prod. Clinic. Proc. 5:28-29. 1950. 99.9 Sp6

- 44568 LAPIN, P. I. Organizačija pilostavnogo khozjaistva lesopil'nykh zavodov [Organization of milling at the sawmills]. Moskva, Goslesbumizdat,1950. 49 p. 99.76 L312
- 44569 MAHEU, C. Scieries de la Côte Pacifique. Rev. du Bois 6(3):7-13. Mar.1951. 99.82 R32
- 44570 MEINANDER, N. Virkesushållning och sagverksrörelse i Torne, Kemi och Simo älvdalar intill första världskriget [Lumber management and the sawmill movement in Torne, Kemi and Simo river valleys until the First World War]. Finska Vetensk. Soc. Bidr. till Känn. af Finlands Natur och Folk 94(2),263 p. Ref. 1950. 511 H36B  
Thesis, Helsingfors.
- 44571 ORLICZ, T. Idées et méthodes de calcul dans la productivité des scies verticales dans les divers moyens de sciage. (In Polish.) Sylwan 94(3):70-97. 1950. 99.8 Sy52  
French summary.
- 44572 TURNBULL, R. F., and COLWELL, S. J. Timber conveying in Australian sawmills. 2. Timber News 59:76. (Concl.) Feb.1951. 99.81 T482

Processing and Woodworking

- 44573 CORMIO, R. Wood for inlaying. (In Italian.) Indus. del Legno 2(10):25-28;(11):23-28. Oct.-Nov.1950. 99.82 In2
- 44574 DRUMMOND, S. Notes on boring. 4. Timber News 59:77-78. Feb.1951. 99.81 T482
- 44575 EGNER, K. Über das entstehen der verschalung, deren sichtbarmachung und beseitigung. Holz-Zentbl. 77:187-188. Feb.8,1951. 99.81 H742
- 44576 HYLER, J. E. Woodworking knife and cutter application. XIII. South. Lumberman 182(2279):62,64-65. Mar.15,1951. 99.81 So82
- 44577 INSTITUT FÜR WIRTSCHAFTSFORSCHUNG, MÜNCHEN. Die holzverarbeitende industrie Westdeutschlands im jahre 1950. Holz 5:1-3. Jan.1951. 99.82 H743
- 44578 LINDNER, J. Carbide-tipped tools for wood processing. (Excerpts.) Übersee-Post 9:37-38. Mar. 1951. 286.8 Ub3
- 44579 OBRIG, G. Specialty markets in the woodworking industry. Vt. Wood Prod. Conf. Rpt. 10:8-11. 1950. 99.9 V594  
Includes discussion.
- 44580 OWENS, J. M. Cost control in woodworking. Vt. Wood Prod. Conf. Rpt. 10:3-7. 1950. 99.9 V594  
Includes discussion.
- 44581 REINEKE, L. H. The saw. Wood Prod. 56(3):16-18. Mar.1951. 99.82 W856
- 44582 THOMSON, A. G. New process for wood bending. So. African Timber Trades' J. 5(4):13-14. Jan.1951. 99.8 So82

Seasoning, Conditioning and Finishing

- 44583 BLACKWELL, R. Cordovan mahogany finishing. Canad. Woodworker 51(2):36,46. Feb.1951. 99.82 C162
- 44584 ELLWOOD, E. L., GOTTSTEIN, J. W., and WRIGHT, G. W. Vapour drying Australian grown timbers Austral. Council Sci. & Indus. Res. Forest Prod. News Let. 183:1-2. June/Dec.1950. 99.9 Au722F
- 44585 KONIG, E. Grundregeln der natürlichen holztrocknung. Norddeut. Holzwirt. 5(4):1-2. Jan.25,1951. 99.82 N75
- 44586 TIEMANN, H. D. The kiln-drying of lumber. 27. South. Lumberman 182(2279):54,58. Mar.15,1951. 99.81 So82
- 44587 TORGESON, O. W. New schedules for kiln drying. Wood [Chicago] 6(4):17-19,40,42,44,46. Apr. 1951. 99.82 W859

Wood Preservation and Damage

- 44588 SCHEMPP. Erforderliche holzschutzmassnahmen im bauwesen und bei anderen wirtschaftsgebieten. (Sum.) Angew. Chem. 63:99. Feb.21,1951. 384 Z33
- 44589 SCHOFIELD, J. A. Coal tar creosote as a wood preservative. Timber News 59:53-54. Feb.1951. 99.81 T482
- 44590 STACEY, W. A. Treated timber trestles on Kansas City southern lines. Wood Preserv. News 29:24-25. Feb.1951. 300.8 W853



- 44591 STILLINGER, J. R. Some strength and related properties of old-growth Douglas fir decayed by *Fomes pinl.* Amer. Soc. Testing Mater. ASTM B. 173:52-58. Apr. 1951. 290.9 Am34B
- 44592 TUOVINEN, A. The quality and preserving of cut timber requires more attention. *Teho* 1951(1):16-23. 20 T98  
English summary, p. 50.

### FOREST PRODUCTS

- 44593 DESCH, H. E. The urgency of applying our new knowledge of wood. 3-4. *Timber News* 59:56-68,96,99-100. (Concl.) Feb.-Mar. 1951. 99.81 T482
- 44594 HUNT, G. R. Getting values out of forest products research. *Newest Wood Prod. Clinic. Proc.* 5: 35-37. 1950. 99.9 Sp6
- 44595 JAMES, L. M., and DUERR, W. A. The South's income from timber products. *South. Lumberman* 182 (2279):50. Mar. 15, 1951. 99.81 So82
- 44596 NORTHWEST WOOD PRODUCTS CLINIC. Proceedings of the fifth annual clinic, March 21 and 22, 1950, Spokane. n.p., 1950. 75 p. 99.9 Sp6
- 44597 VERMONT WOODS PRODUCTS CONFERENCE, 10, NORTHFIELD, 1950. Report. Northfield, 1950. 30 p. 99.9 V594
- 44598 WANGAARD, F. F. Production research in wood products. *Vt. Wood Prod. Conf. Rpt.* 10:12-20. Ref. 1950. 99.9 V594  
Includes discussion.

### Lumber and Rough Products

- 44599 HEMPEL, K. Die angst vor der courage. *Holz-Zentbl.* 77:99-100. Jan. 23, 1951. 99.81 H742  
Lumber prices.
- 44600 HUEY, B. M. Relation between the consumption of round timber and the production of ore in the metal mines of the northern Rockies. *U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note* 94, 3 p. Mar. 1951. 1.9622 N3R31
- 44601 WAGNER, T. H. Cross tie industry production problems laid before NPA. *Cross Tie B.* 32(3):7-9. Mar. 1951. 99.82 C87  
National Production Authority.

### Building Construction

- 44602 HALL, M. A. Glued laminated timbers. *South. Lumberman* 182(2280):70,72,74. Apr. 1, 1951. 99.81 So82
- 44603 MASANI, N. J. Simple calculations in the design of forest bridges of stock spans of 15, 20, 30 and 40 feet. *Indian Forester* 77:28-54. (Cont.) Jan. 1951. 99.8 In2
- 44604 WEGELT, Holz im wettbewerb mit anderen bau- und werkstoffen. (Sum.) *Angew. Chem.*-63:98. Feb. 21, 1951. 384 Z33

### Veneers, Plywood and Adhesives

- 44605 ARNESON, G. N. New developments in plywood manufacturing equipment. *Lumberman* 78(3):71-72,74. Mar. 1951. 99.81 W52
- 44606 BELLOTTI, L., and RIGATELLI, G. F. Principle and function of heating by radio frequency. (In Italian.) *Indus. del Legno* 2(10):30-34; (11):29-30,31. Oct.-Nov. 1950. 99.82 In2
- 44607 BENE, J. Manufacturing problems of the plywood industry. *Lumberman* 78(3):118,120. Mar. 1951. 99.81 W52
- 44608 DIXON, H. F. The story of wood adhesives. *Brit. Columbia Lumberman* 35(3):60,122,124,126,128. (To be cont.) Mar. 1951. 99.81 B77
- 44609 GALBER, H. The story of glue. III. *Veneers & Plywood* 45(3):18,20. Mar. 1951. 99.82 V55
- 44610 GRAHAM, P. Plywood at war. *Wood [Chicago]* 6(4):24,48. Apr. 1951. 99.82 W859
- 44611 GRAHAM, P. H. Industry wants college men, but with practical training. II. *Veneers & Plywood* 45(3): 22-24. Mar. 1951. 99.82 V55
- 44612 HERTZLER, R. A. Southern hardwoods for veneer and plywood. *South. Lumberman* 182(2279):44,46, 48,50. Mar. 15, 1951. 99.81 So82
- 44613 HYLER, J. E. Hot pressed plywood. 4. *South. Lumberman* 182(2280):61-62,64. Apr. 1, 1951. 99.81 So82

- 44614 HYLER, J. E. Skinners, jointers, sizers devised for special jobs. *Veneers & Plywood* 45(3):32-35. Mar. 1951. 99.82 V55
- 44615 MCLAGLEN, C. F. Glue extenders and extensions. *South. Lumberman* 182(2280):68. Apr. 1, 1951. 99.81 So82
- 44616 PERRY, T. D. Matching veneers. *Wood Prod.* 56(3):30-35. Mar. 1951. 99.82 W856
- 44617 REINMUTH, P. The manufacturing of pine veneer. *Lumberman* 78(3):95,98,100,102. Mar. 1951. 99.81 W52
- 44618 SALOMON, R. La fabrication du meuble; le service de la "plaque." *Rev. du Bois* 6(2):12-14. Feb. 1951. 99.82 R32
- 44619 SCHRADER, O. H., JR. Nineteen fifty—a year of great expansion and development in Douglas fir plywood industry. *Lumberman* 78(3):69-70,127. Mar. 1951. 99.81 W52
- 44620 SELBO, M. L. Gluing of treated wood. *South. Lumberman* 182(2280):46,48,50,52,54. Apr. 1, 1951. 99.81 So82
- 44621 SMITH, M. *Terminalia superba* invades blonde field. *Veneers & Plywood* 45(3):42-43. Mar. 1951. 99.82 V55
- 44622 STÖCK. Über aushaltung und bewertung von furniëreichen. *Holz-Zentbl.* 77:263-264. Feb. 22, 1951. 99.81 H742
- 44623 WRIGHT, J. Moulded plywood—a mass-production material. *Canad. Woodworker* 51(2):28-30,48,66. Feb. 1951. 99.82 C162

### Furniture

- 44624 BOOTH, F. L. Table manufacture calls for laminated construction. *Veneers & Plywood* 45(3):12-13. Mar. 1951. 99.82 V55
- 44625 LETESSIER, A. Principes de construction des meubles et éléments d'architecture décorative en bois. *Rev. du Bois* 6(2):17-20. (Cont.) Feb. 1951. 99.82 R32

### Containers

- 44626 CACKLEY, C. T. What's new in nailed wooden boxes! *Pacific Purchaser* 33(3):50-51. Mar. 1951. 280.8 P112
- 44627 DRIBBUSCH, M. Kistenholz messern? *Holz-Zentbl.* 77:295. Feb. 27, 1951. 99.81 H742
- 44628 WAGNER, J. B. Setting up or barrel raising. *Barrel & Box & Packages* 56(3):6-7. Mar. 1951. 99.82 B27

### Pulp and Paper

- 44629 BECKLER, F. G. L. Twenty-five years' pulp-ing developments of agricultural residues. *Paper Trade J.* 132(12):16,18,21-22,24,26. Mar. 23, 1951. 302.8 P196
- 44630 CAMPBELL, W. B. Mechanics of the grinding process. *Pulp & Paper Mag. Canada* 52(3):217-220. Convention 1951. 302.8 P96
- 44631 COLLICUTT, S. A. Effect of process variables in the grinding of newsprint groundwood. *Pulp & Paper Mag. Canada* 52(3):159-165. Convention 1951. 302.8 P96
- 44632 CUNICINY, A., IZAK, G. V. J., and SPALEK, V. The wood of deciduous trees in paper and cellulose industry. n.d. 2 p. Translation 6457  
Translated from Rocenka 3:192-233. 1949.
- 44633 ECKE, Das holz in der zellstoff- und papier-industrie. *Forstwirt. Holzwirt.* 4:369-370. Dec. 1/15, 1950. 99.8 F7793  
Germany.
- 44634 EVEREST, D. C. Role of pulpwood in mobilization. *Fibre Containers* 36(3):24,26,31. Mar. 1951. 286.8 F44
- 44635 JAYME, G., and KÖPPEN, A. VON. Strukturelle und chemische unterschiede zwischen sulfit- und sulfatzellstoffen. *Papier* 4:455-462. Dec. 31, 1950. 302.8 P1934
- 44636 JENSEN, W. Birch as pulp raw material. II. (In Swedish.) *Papier i ja Puu.* B 33:4-5. 1951. 302.8 P1991  
English summary.
- 44637 KLEMM, K. Untersuchungen über die feuchtung von schleifholz. *Papier* 4:467-473. Dec. 31, 1950. 302.8 P1934
- 44638 LABERGE, P. X. Wood counter for hydraulic-type grinders. *Pulp & Paper Mag. Canada* 52(4):99-100. Mar. 1951. 302.8 P96



44639 LEWIS, H. F., and BUCHANAN, M. A. Reflections on groundwood bleaching. *Pulp & Paper Mag. Canada* 52(4):93-95. Mar.1951. 302.8 P96

44640 LIMERICK, J. M., and CALLAGHAN, C. V. Some physical and chemical properties of high-yield kraft pulps. *Pulp & Paper Mag. Canada* 52(3):175-180. Convention 1951. 302.8 P96

44641 LINDENBERG, H. A. Ceiling for manufacturers might affect wood pulp, chemicals, lumber among raw materials—formula, pre-Korea price plus direct cost increases. *Paper Mill News* 74(12):108-110. Mar.24, 1951. 302.8 P195

44642 MÜLLER-HENNEBERG, H. M. Produktions- und marktlage der zellstoff- und papierindustrie. *Papier* 4:486-487. Dec.31,1950. 302.8 P1934

44643 PASCOE, T. A., and SCHEFFER, T. C. Jack pine pulpwood deterioration in yard storage. *Paper Mill News* 74(12):58,60,62,64,66,68. Ref. Mar.24,1951. 302.8 P195

44644 PULP and paper industry of Poland. n.d. 3 p. Translation 6462

Translated from *Bumajna Promyslnost* 5:38-40. 1950.

44645 ROGERS, C. E., and JOLLEY, R. S. Calcium base sulfite liquor burned without auxiliary fuel. *Paper Mill News* 74(12):42,44,46,48,50. Mar.24,1951. 302.8 P195

44646 SAPP, J. E. The production and refining of semichemical pulp for corrugating board. *Pulp & Paper Mag. Canada* 52(4):96-98. Mar.1951. 302.8 P96

44647 TONNESEN, B. A. Structure of cellulose fibres. (In Norwegian.) *Paperi ja Puu*. B 32:367-378. 1950. 302.8 P1991

English summary.

44648 VENKAJEE, T. Development of the paper industry in Assam. *Pulp & Paper Mag. Canada* 52(4):63-67. Mar.1951. 302.8 P96

44649 VILENTS, S. B. *Proizvodstvo drevesnoi massy* [Production of wood-pulp]. Moskva, Goslesbumizdat, 1950. 199 p. 302 V71

44650 WALSH, E. P. Effect of pulpstone grit distribution on groundwood quality control. *Pulp & Paper Mag. Canada* 52(4):76-81,86. Mar.1951. 302.8 P96

44651 WEST, C. J. Pulping processes. IV. Inst. *Paper. Chem. Bibliog. Ser.* 175,145 p. Mar.1950. 241.4 Ap5

44652 WIKSTROM, J. H. 1950 pulpwood production drops. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 90,1 p. Feb.1951. 1.9622 N3R31

#### Chemical Products and Distillates

44653 ARIES, R. S. New method for making charcoal. *South. Lumberman* 182(2279):76.78. Mar.15,1951. 99.81 So82

44654 BENIĆ, R. Charcoal burning in stoves with circulation of gases. (In Croatian.) *Šumarski List* 74: 498-502. Dec.1950. 99.81 Su6

44655 EHWALD, E. Lässt sich der gerbstoffgehalt der fichtenrinden an äusseren merkmalen erkennen? *Forstwirt. Holzwirt.* 4:364-369. Ref. Dec.1/15,1950. 99.8 F7793

44656 GREAVES, C. Canadian wood bark as a source of tannin. *Pulp & Paper Mag. Canada* 52(4):118,121-122. Mar.1951. 302.8 P96

44657 HARRIS, P. G. Notes on tanning in Argungu Emirate (Jima), Nigeria. *Farm & Forest* 10:32-33. 1950. 24 F226

44658 KURTH, E. F., and HUBBARD, J. K. Extractions from *Ponderosa* pine bark. *Indus. & Engin. Chem.* 43:896-900. Ref. Apr.1951. 381 J825

44659 ROGERS, J. S., CALDERWOOD, H. N., and BEEBE, C. W. Study of the tannin contents of barks from the Florida scrub oaks *Quercus laevis* and *Q. cinerea*. *Fla. Engin. & Indus. Expt. Sta. Tech. Paper* 56,19 p. Ref. Feb.1951. 290.9 F66T

44660 STEPHEN, A. M. *Acacia mollissima* Willd. I. The component sugars and aldobiuronic acid of black wattle gum. *Chem. Soc. J.* 1951:646-649. Mar.1951. 382 L84J

44661 WEST, C. J. A bibliography of tall oil. Supplement III. *Inst. Paper Chem. Bibliog. Ser.* 133/135:200-266. Apr.1950. 241.4 Ap5

#### Naval Stores

44662 PEJOSKI, B. First yields in the extraction of balsam from *Pinus peuce*. n.d. 1 p. Translation 6465 Translated from *Šumarski List* 1950:126-131. Mar./Apr.1950.

44663 PEJOSKI, B. Die lärchenharzung und lärchenbalsam. (In Croatian.) *Šumarski List* 74:465-469. Ref. Dec.1950. 99.81 Su6

German summary.  
44664 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Better gum naval stores products, by E. L. Patton, A. R. Shirley, and T. McGinty. Washington, 1951. 4 p. 1.914 R2R11

#### Other Forest Products

44665 ARIES, R. S. Potentialities & realities in the chemical uses of wood waste. *Vt. Wood Prod. Conf. Rpt.* 10:21-26. 1950. 99.9 V594

44666 HELBIG, K. Rotan; ein vielseitiger werkstoff der Tropen. *Kosmos* 47:18-23. Jan.1951. 474 K842

44667 HELEVUO, K. High frequency preheating of hardboards before pressing by the dry pressing method with glazed plates on both sides. (In Swedish.) *Paperi ja Puu*. B 33:15-18. 1951. 302.8 P1991

English summary.

44668 HUEY, B. M. Montana Christmas tree shipments drop slightly. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 86,3 p. Jan.1951. 1.9622 N3R31

44669 JANSSON, H. Continuous heat treatment and humidifying of hard fibre board at Säynätsalo. (In Swedish.) *Paperi ja Puu*. B 32:384-387. 1950. 302.8 P1991

English summary.

44670 LONG, W. There is no mystery about hardboard. *Lumberman* 78(3):106,108,110,124. Mar.1951. 99.81 W52

44671 MARANGONI, L. Cork and its economy. (In Italian.) *Indus. del Legno* 2(10):39-41. (Cont.) Oct.1950. 99.82 In2

44672 OBASEKI, J. K. Rope industry (minor forest produce). *Farm & Forest* 10:22-24. 1950. 24 F226

Nigeria.  
44673 OGLAND, N. J. The sizing of hardboard, hot-air treated after pressing. (In Swedish.) *Paperi ja Puu*. B 33:8-10. 1951. 302.8 P1991

English summary.

44674 SANIF, S. A talk about bamboo. *Econ. Rev. Indonesia* 4:140. Oct./Dec.1950. 280.8 Ec725

Uses.  
44675 SWAMY, S. K. Fiberboard properties. *Wood* [Chicago] 6(4):26-27,47. Apr.1951. 99.82 W859

#### WOOD TECHNOLOGY

44676 BALZER, I. An attempt to manufacture ligno-stone. (In Croatian.) *Šumarski List* 74:469-480. Dec. 1950. 99.81 Su6

44677 EVERS, H. Beiträge zur chemie und technologie des weidenholzes. 1. Die weidenflechrute und ihre chemischen veredlungsmöglichkeiten. *Forstwirt. Holzwirt.* 4:322-333. Nov.1/15,1950. 99.8 F7793

44678 FOSTER, D. H., SCHWERIN, G., and COHEN, W. E. The existence of a uronic acid ester in young wood of *Eucalyptus regnans*. *Austral. J. Sci. Res. Ser. A: Phys. Sci.* 3:504-511. Ref. Sept.1950. 475 Au73

44679 GRALEN, N., and BERG, S. Treatment of wood with ultrasonic waves. *J. Polymer Sci.* 6:503-507. Ref. Apr.1951. 381 J829

44680 JENSEN, W., and NUOTIO, J. On the galactan content in birch wood. (In Swedish.) *Paperi ja Puu*. B 33:33-35. 1951. 302.8 P1991

English summary.

44681 KISSER, Die bedeutung biologischer holzforschung für die lösung holztechnologischer fragen. (Sum.) *Angew. Chem.* -63:98. Feb.21,1951. 384 Z33

44682 LAWTON, E. J., and others. Some effects of high velocity electrons on wood. *Science* 113:380-382. Apr.6,1951. 470 Sci2  
W. D. Bellamy, R. E. Hungate, M. P. Bryant, and E. Hall, joint authors.



- 14683 MARTS, R. O. Influence of crown reduction on springwood and summerwood distribution in longleaf pine. *J. Forestry* 49:183-189. Mar.1951. 99.8 F768
- 14684 MAYER-WEGELIN. Das Holzgefüge im jahrring und die bestimmung des früh- und spätholzanteils. (Sum.) *Angew. Chem.* 63:98. Feb.21,1951. 384 Z33
- 14685 RENO, J., and KUKACHKA, B. F. Reno-Kukachka wood identification chart. 1. Commercial hardwoods. Chicago, Vance, 1950. 23 p. 99.31 R292
- 14686 UDA, N. Mokuzai kagaku; kiso-hen [Chemistry of timber, fundamental section]. Tokyo, Sagyo Tosho, 1950. 269 p. 99.79 Udl
- 14687 ULLRICH. Biologie des holzes im hinblick auf seine technische nutzung. (Sum.) *Angew. Chem.* 63:98. Feb.21,1951. 384 Z33
- 14688 VAROSSIEAU, W. W. On the use of the electron microscope in wood anatomy. *Conf. Electron Micros. Proc.* 1949:107-110. 1950. 440.9 C76
- 14689 VOGEL, F. H. Impregnation of wood with solid metal alloys. *Canad. Woodworker* 51(2):32-45, 70. Feb.1951. 99.82 C162

#### Properties and Structure

- 14690 JACKSON, M. W. Discussion of paper on studies of the strength of glued laminated wood construction. *Amer. Soc. Testing Mater. ASTM B.* 173:58. Apr. 1951. 290.9 Am34B
- Discussion of paper by A. D. Freas.
- 14691 JANE, F. W. The structure of timbers of the world. *Timber News* 59:103. (To be cont.) Mar.1951. 99.81 T482
- 14692 KNUDSEN, D. F. A graphical method to determine pole strengths. *Elect. News & Engin.* 60(6):37-39, 41. Mar.15,1951. 335.8 EL224
- 14693 PERRY, T. D. Moisture content. *Canad. Woodworker* 51(2):26-27, 56. Feb.1951. 99.82 C162
- Of wood.

#### ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with *Agricultural Products*; references on housing of livestock with *Agricultural Engineering*.

#### BREEDS AND BREEDING

- 14694 BONADONNA, T. Aspects of the "technical" organization of breeders and its aims. I-III. (In Italian.) *Zootec. e Vet.* 5:943-953, 995-999; 6:8-23. Nov.1950-Jan. 1951. 41.8 Z7
- I, Organizational criteria and bases; II, Basic principles for the organization of the pedigree books; III, Records and testing.
- 14695 CHIEFFI, A. What is the best breed to produce? (In Portuguese.) *Seleç. Agr.* 6(57):31-32. Jan. 1951. 9.2 Se4
- Livestock.
- 14696 GIULIANI, R. Applications of genetics to livestock production. (In Italian.) *Cong. Agr. Naz. Atti* 1948: 385-410. 1950. 27 C7625
- 14697 HEINSOHN DE BRIGARD, J. El Instituto Interamericano de Turrialba en el progreso de la ganadería tropical. *Agr. Trop.* 7(3):19-25. Mar.1951. 26 Ag8
- 14698 LAING, J. A. Infertility in farm animals. *Roy. Agr. Soc. Eng. J.* 111:75-86. Ref. 1950. 10 R81
- 14699 MARICZ, M. L'insémination artificielle au Congo Belge. *Belgium. Min. des Colon. B. Agr. du Congo Belge* 42:107-116. Mar.1951. 24 K83
- 14700 MERCIER, N. L'hérédité et la consanguinité en élevage. *Digeste de l'Eleveur* 5(7):15-18. Mar.1951. 49 D56
- 14701 PARGUEY, G. Problemes des productions animales. *Défense Agr. de la Beauce et du Perche* 48: 103-105. Mar.3,1951. 14 D36
- Breeds and breeding.
- 14702 RODON, J. M. Los progresos de la inseminación artificial. *Cult. Mod.* 34:11-12. Jan.1951. 15 C89
- 14703 SCHLEBACH SANCHEZ, E. Mejoramiento ganadero; proyecto para la realización de una campaña en la República Mexicana, a base de inseminación artificial y trasplante de ovulos fecundados. *Prob. Agr. e Indus. de Méx.* 2(1):165-179. Jan./Mar.1950. 281.8 P943
- 14704 SCHLEBACH SANCHEZ, E. Reproducción de animales. *Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Almanaque Agr. de la Repub. Dominicana* 1951:68-69. 1950? 8 D714
- Genetics.
- 14705 SENZE, A. Critical notes on the control of the so called symptom-free sterility. (In Polish.) *Med. Weter.* 6:590-594. Oct.1950. 41.8 M463

#### FEEDS AND FEEDING

- 14706 AGENJO CECILIA, C. El aprovechamiento de los piensos. *B. de Divulg. Ganad. [Valladolid]* 7:412-420. Dec.1950. 49.9 Sp12
- 14707 AMERICAN FEED MANUFACTURERS ASSOCIATION. NUTRITION COUNCIL. Facts about phosphorus supplements. *Feedstuffs* 23(12):12,16,53. Mar.24,1951. 286.81 F322
- 14708 ARIES, R. S., and COPULSKY, W. Utilization of blackstrap. IV. *Flour & Feed* 51(11):26. Apr.1951. 298.8 F66
- In feed.
- 14709 AXELSSON, J., and ERIKSSON, S. Comparison between the accuracies of the direct and the indirect methods in digestion trials with ruminants. *Sweden. Lantbrhögsk. Ann.* 17:375-395. 1950. 104 Up6
- 14710 AXELSSON, J. Connections between contents of nutrients and digestibility of grassland crops. *Sweden. Lantbrhögsk. Ann.* 17:320-341. Ref. 1950. 104 Up6
- 14711 BALL, C. E. How to beat a drought; successful stockmen say that when pastures fail, open your silo and feed "canned grass." *Farm & Ranch-South. Agr. Upper So. Ed.* 81(4):1,40. Apr.1951. 6 T31
- 14712 BENDER, C. B. How to make grass silage without molasses. *N. J. Farm & Gard.* 22(4):16-17. Apr.1951. 6 G162
- 14713 BERZIN, I. A. M. Importance of cobalt and copper in farm animal nutrition. (In Russian.) *Agrobiologiya* 1950(6):111-120. Nov./Dec.1950. 20 Ag822
- 14714 BOULET, L. J. Nouveaux procédés d'ensilage. *Terre de Chez Nous* 23(5):15-16. Mar.28,1951. 7 T27
- 14715 BRINEGAR, M. J. Practical explanation of some terms in animal nutrition—vitamin B<sub>12</sub>, antibiotics, amino acids, urea. *Nebr. Agr. Col. Ext. E. C.* 252, rev. 11 p. Feb.1951. 275.29 N272Ex
- 14716 BRÜGGEMANN. Über die notwendigkeit des gärfuttereinsatzes. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:277. Feb.22,1951. 18 L2346
- 14717 CANADA. DEPT. OF AGRICULTURE. Wheat as a feed for livestock and poultry. *Canada. Dept. Agr.* P. 856, 4 p. Jan.1951. 7 C16Pu
- 14718 CHERKASOV, V. Measures for checking losses in weight of livestock. (In Russian.) *Mfasnafa Indus. SSSR.* 21(5):47-51. Sept./Oct.1950. 50.8 M58
- System of feeding and watering before slaughtering.
- 14719 CORRIE, F. E. Feeding farm animals. 33-38. *Fert. Feed. Stuffs & Farm Supplies J.* 37:50-52, 77, 79-80, 105, 107-108, 138-140, 191-192, 215-217. Jan.24-Apr.4, 1951. 57.8 F413
- 14720 COSSETTE, M. L'ensilage d'herbe est-il aisément à votre portée? *B. des Agr.* 47(3):16-17, 27-29. Mar.1951. 7 B872
- 14721 DEIJIS, W. B., and IMMINK, H. J. A spectrophotometric study on carotene-solutions obtained from various products. (In Dutch.) *Landbk. Tijdschr.* 63:125-130. Feb.1951. 105.2 Or3
- English summary.
- 14722 DELOATCHE, G. B. Antibiotics in feeds. *Patron* 11(8):7. Feb.1951. 280.28 P27
- 14723 DODIER. Intérêt de l'ensilage; son utilisation. *Almanach Agr. Tunisien* 1951:277-282. 24 AL6
- 14724 DOHAN, F. C., and others. The estrogenic effects of extracts of spring rye grass and clover. *Amer. Vet. Med. Assoc. J.* 118:323-324. May 1951. 41.8 Am3
- E. M. Richardson, R. C. Stribley, and P. Gyorgy, joint authors.
- 14725 DYSON, D. V. Antibiotics in nutrition. *O. A. C. Review* 63:276, 304. Feb.1951. 276.8 On8
- Animals.
- 14726 FEDTKE. Was verbleibt im Sauerland als zusätzlicher futterbau? *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:357. Mar.8,1951. 18 L2346
- 14727 GODDEN, W. The feeding of livestock. *Roy. Agr. Soc. Eng. J.* 111:170-175. Ref. 1950. 10 R81



- 44728 GROOT, H. DE. Ensiling and the weather. (In Dutch.) *Friesch Landbbl.* 48:137. Mar.2,1951. 12 F91
- 44729 HAGLE, J. E. Experiments show that urea builds live stock condition at low cost. *West. Live Stock* 36(6):12.72-73. Jan.1951. 49 W523
- 44730 HAHNE. Die futterwirtschaftliche bedeutung des zuckerrübenbaues. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:393-394. Mar.15,1951. 18 L2346
- 44731 HORNE, C. B. Fodder conservation in England. *Power Farming Austral. & New Zeal.* 59(12):3.5. Dec. 1950. 58.8 P87
- 44732 JARL, F. Usefulness of the AIV method. (In Swedish.) *Lantmannen* 35:191-192. Mar.10,1951. 11 L234
- 44733 JUEL-NIELSEN, A. Silage research at Bornholm. (In Danish.) *Dansk Landbr.* 70:86-87. Feb.15,1951. 280.28 V91
- 44734 KING, G. W. We make pit silage for  $\frac{1}{2}$  a ton. *Dairy Farmer* 24(3):18-19. Mar.1951. 44.8 D1414
- 44735 KIVIMAE, A. The chemical composition of tops of root crops and of marrow stem kale. Sweden. *Lantbr-högsk. Ann.* 17:211-221. Ref. 1950. 104 Up6
- 44736 LECRONIER, J. L'alimentation rationnelle des animaux. *Agriculture [Paris]* 15(121):53-55. Feb.1951. 14 Ag823
- 44737 LEROY, A. M., and FRANÇOIS, A. Les plantes féculentes tropicales dans l'alimentation des animaux. French West Africa. *Insp. Gén. de l'Elevage. B. des Serv. de l'Elevage et des Indus. Anim.* 3(2/3):89-94. Apr./Sept.1950. 41.9 F88B
- Cassava and sago.
- 44738 LITTON, G. W. Mineral supplements for sheep, cattle and hogs. (Abs.) *Feedstuffs* 23(15):34,38. Apr.14, 1951. 286.81 F322
- 44739 LOBO, R. Recientes progresos en la alimentación de los animales domésticos. *Ceres [Valladolid]* Sup. Inform. 16(435):10. Feb.15,1951. 15 C33
- 44740 MCCALL, R. S-T-R-E-T-C-H that grass! Supplemental feeds have the same 'magic' as young growing grass: protein, carotene, minerals. *West. Livestock J.* 29(16):108.125-126.130. Feb.15,1951. 6 F2278
- 44741 MERCER, A. D. Stack silage in Tailevu. Fiji. *Dept. Agr. Agr. J.* 21(1/2):9-10. Mar./June 1950. 25 F47Ag
- 44742 MOORE, H. I. It pays to stick to the rules when making silage. *Farmer & Stock-Breeder* 65(3203): 98. Mar.13,1951. 10 F228
- 44743 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Silage for security. IV. North. Ireland. *Min. Agr. Mon. Rpt.* 25:325-328. Mar.1951. 256.13 Ag82M
- 44744 NOSKOV, P. A growing establishment. (In Russian.) *Mfasnaf Indus. SSSR.* 21(5):74-76. Sept./Oct. 1950. 50.8 M58
- Livestock fattening on Elan'-Kolenovskiy State Farm [in Voronezh Region].
- 44745 ORTIZ GARMENDIA, J. Sales minerales y forrajes en la alimentación de los animales. *Campeño [Santiago]* 83:37.39. Jan.1951. 9.3 So12
- 44746 PATERSON, R., and MORTON, G. Silage in pit and stack. Problems of farm management. 16. *Farmers Wk. [London]* 34(13):59.61. Mar.30,1951. 10 F2226
- 44747 POIJARVI, I. Heinien ravintoarvon muutok-  
sista ylivuotisiksi säilytetäessä. Über die veränderungen im nährwert von heu bei überjähriger lagerung. Finland. *Maatalouden Koetoiminnan Keskusvaliokunta. Valtion Maalatouskoet. Tiedonantoja* 222,16 p. 1950. 20 F495T
- 44748 POSTAL, D. Do you understand the ensiling of forages? (In Italian.) *Almanacco Agr.* (1951)62:185-187. 1950. 16 AL6
- 44749 RABANAL LUIS, M. El factor protefna animal. B. de Divulg. Ganad. [Valladolid] 7:410-411. Dec.1950. 49.9 Sp12
- 44750 SHACKLADY, C. A. Tropical grasses as concentrated feeding stuffs. *World Crops* 3:99-101. Mar. 1951. 281.8 W892
- 44751 SHAVEKO, I. Preparation of feeds on the state farms of 1 Moscow Swine Raising Combine. (In Russian.) *Mfasnaf Indus. SSSR.* 21(5):72-74. Sept./Oct.1950. 50.8 M58
- Potato silage.
- 44752 SHERWOOD, R. M. The feed mixers' handbook. Danville, Ill. Interstate. 1951. 192 p. 389.7 Sh5.
- 44753 SMITH, E. J. How Wisconsin farmers put up grass silage. *Hoards Dairyman* 96:291,324. Apr.10,1951. 44.8 H65
- 44754 ULBAEK, S. Ensilage of green feed with preliminary drying. (In Danish.) *Dansk Landbr.* 70:149-150. Mar.29,1951. 280.28 V91
- Chiefly on method in use at Beltsville.
- 44755 USUELLI, F. Recent research on the relations between nutrition and reproduction. IV. Variations of the nutritive value of mineral substances. (In Italian.) *Riv. di Zootec.* 23:345-348. Nov.1950. 49 R52
- Iodine, iron, and minor elements.
- 44756 VALDINOCI, M. Proper feeding of livestock. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 1951:9. Mar.10,1951. 281.8 Ag3
- 44757 VESPER, K. Entnahme von gärfutter an frost-tagen. *Neue Mitt. f. die Landwirt.* 6:106. Feb.17,1951. 18 N39
- 44758 WALLIS, G. C. Sun-cured roughages vary widely in vitamin D value. *West. Feed & Seed* 6(3):21,53-55. Mar.1951. 389.78 W52
- 44759 WATSON, C. J., and others. Digestibility studies with ruminants. XV. The effect of the plane of nutrition on the digestibility of oats in an oats-hay ration. *Sci. Agr.* 31:113-119. Mar.1951. 7 Sci2
- W. M. Davidson, J. W. Kennedy, and P. E. Sylvestre, joint authors.
- 44760 WINTERBOTHAM, J. Trefoll, old legume holds new promise. *Chemurg. Digest* 10(4):8-9. Apr.1951. 381 N213Na
- Use of bird's-foot trefoll for pasture, hay, and silage.
- 44761 WOOD, T. G. A new feed opportunity. *New Agr.* 33(5):20. Feb.1951. 66.8 Su32
- Use of dried beet pulp.
- 44762 WOODS, R. Nutrition highlights. *Flour & Feed* 51(11):32. Apr.1951. 298.8 F66
- Livestock.

## VETERINARY MEDICINE

- 44763 BAJEZ, E. Bemerkungen über Retalon und Oestrogen. *Wien. Tierärztl. Monatsschr.* 38:47-48. Jan. 1951. 41.8 T345
- 44764 BASSET, J. Fièvre aphteuse. Le vaccin de Waldmann et sa posologie. Origine des anticorps et mécanisme de l'immunité. *Acad. Vét. de France. B.* 24: 21-29. Jan.1951. 41.9 R24
- 44765 BENESCH, F., and WRIGHT, J. G. Veterinary obstetrics, including certain aspects of the physiology and pathology of reproduction in domestic animals. London, Baillière, 1950. 459 p. 41 B434
- 44766 BERDEL, W. Die allergische stufenreaktion im tuberkulösen organismus. *Deut. Tierärztl. Wchnschr.* 58:41-45. Feb.1,1951. 41.8 D482
- 44767 BETIZEAU, E. Vaccination anti-aphteuse dans le département de la Meuse en 1948; vaccins danois et hollandais. Paris, Foulon, 1950. 70 p. Ref. 41.2 B4628
- Thèse - Ecole Nationale Vétérinaire d'Alfort.
- 44768 BEZOT, M. Vitamine A et reproduction. Paris, Foulon, 1950. 61 p. 386.2 B467
- Thèse - Ecole Nationale Vétérinaire d'Alfort.
- 44769 BISIO, A., and TITONE, F. The municipal veterinary service in relation to modern requirements. (In Italian.) *Prog. Vet.* 6:125-126,128-130,132-134,136-140. Mar.1,1951. 41.8 P942
- 44770 BOCK, M. Sammelreferat: Q-fieber. Atiologische und epidemiologische betrachtungen. *Deut. Tierärztl. Wchnschr.* 58:90-93. Mar.15,1951. 41.8 D482
- 44771 BOERO H., M. Frecuencia de la localización hepático-pulmonar y fertilidad de los quistes hidatídicos en vacunos, ovinos y porcinos. Chile. U. Dept. de Parasitol. B. de Inform. Parasitarias Chilenas 5:43-44. Oct./Dec.1950. 436.9 C43
- English summary.
- 44772 BOJCZUK, R. Notes on the use of Swiss models of instruments. (In Polish.) *Med. Weter.* 6:529-530. Sept.1950. 41.8 M463
- 44773 BOL', B. K. Patologoanatomicheskoe vskrytie sel'skokhoziaistvennykh zhivotnykh [Pathologo-anatomical dissection of agricultural animals]. Ed. 3, rev. & enl. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 263 p. (Uchebniki i Uchebnye Posobiya Dlya Vysshikh Sel'skokhoziaistvennykh Uchebnykh Zavedenii) 444 B635
- 44774 BRIZARD. Antiparasitaires actuels. *Rev. de Méd. Vét. [Toulouse]* 101:529-544. Nov.1950. 41.8 R32
- Antibiotics, anthelmintics, insecticides, etc.
- 44775 BUSH, D. L. Immediate effect of the atomic bomb on Japanese army animals with the Hiroshima division. *Amer. Vet. Med. Assoc. J.* 118:221-227. Apr. 1951. 41.8 Am3
- 44776 BUURSMA, S. Identical twins in nature. (In Dutch.) *Natura* 48:5-9. Jan.1951. 410 N2192
- Includes livestock.



- 44777 CARMICHAEL, J. The antihistaminics and their use in veterinary medicine. *Vet. Rec.* 63:220-222. Ref. Mar.24.1951. 41.8 V641
- 44778 CARMICHAEL, J. Veterinary therapeutics. *Pharm. J.* 165:402-404. Dec.18.1950. 396.8 P49
- 44779 CENA, M. Razor blades in surgery. (In Polish.) *Med. Weter.* 6:530-531. Sept.1950. 41.8 M463
- 44780 CHANDLER, L. U. Nutritional aspects of resistance. *Amer. Vet. Med. Assoc. J.* 118:256-260. Ref. Apr.1951. 41.8 Am3
- 44781 CHWALIBÓG, J. Methods of dosage of antibacterial sera. (In Polish.) *Med. Weter.* 6:518. Sept. 1950. 41.8 M463
- 44782 CILLI, V. Biological aspects of some ultraviruses in relation to their use as vaccines in veterinary medicine. (In Italian.) *Zooprofilassi* 6:17-27, 67-68, 70-72, 74-76, 78-80. (Cont.) Jan.-Feb.1951. 41.8 Z72
- Introduction; rinderpest; African horse sickness; canine distemper.
- 44783 COLE, V. G. New drugs for animals. *Muster* 5:349,351. Jan.1.1951. 45.8 M97
- 44784 COLLINS, R. A., and others. The folic acid and vitamin B<sub>12</sub> content of the milk of various species. *J. Nutr.* 43:313-321. Feb.10.1951. 389.8 J82
- A. E. Harper, M. Schreiber, and C. A. Elvehjem, joint authors.
- 44785 CONORT, J. Une huile de pyroligneux; son action thérapeutique sur les plaies en médecine vétérinaire. Paris, Foulon, 1950. 60 p. Ref. 41.2 C763
- Thèse - École Nationale Vétérinaire d'Alfort.
- 44786 CZAPLINSKI, F. Poisoning by thallium in small animals. (In Polish.) *Med. Weter.* 6:531-533. Ref. Sept.1950. 41.8 M463
- 44787 DALLING, T. Diseases of animals. *Roy. Agr. Soc. Eng. J.* 111:187-204. Ref. 1950. 10 R81
- 44788 DIROU, R. Renversement de la vessie chez les grandes femelles domestiques. Paris, Foulon, 1950. 50 p. 41.2 D622
- Thèse - École Nationale Vétérinaire d'Alfort.
- 44789 EDWARDS, J. T. Veterinary medicine during the past fifty years. *Vet. Rec.* 63:51-56. (Concl.) Jan.27. 1951. 41.8 V641
- 44790 EGGERS, H., and SCHULTE-KELLINGHAUS, O. Klinische untersuchungen über amino-weidnerit bei pyogenen wundinfektionen. *Deut. Tierärztl. Wchnschr.* 58:52-53. Feb.15.1951. 41.8 D482
- 44791 FADDEEV, L. A. Retsepty veterinarnoi terapii [Prescriptions in veterinary therapy]. Ed. 2, rev. and enl. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 131 p. 41 F12
- 44792 FAIRALL, L. R. A public relations program for veterinary medical associations. *Amer. Vet. Med. Assoc. J.* 118:293-294. May 1951. 41.8 Am3
- 44793 FEDERER, K. E. Contribución a la historia de la rabia. *Gac. Vet.* 12:270-277. Nov./Dec.1950. 41.8 G112
- 44794 FEDOTOV, N. S. Rubber rings for obtaining areas in ultra high frequency treatment. (In Russian.) *Veterinariia* 27(11):48. Nov.1950. 41.8 V6426
- 44795 FISHER, H. J. Common toxicologic findings in Connecticut. *Amer. Vet. Med. Assoc. J.* 118:309-311. May 1951. 41.8 Am3
- 44796 FITZGERALD, A. J. Antrax o fiebre carbonosa; etiología y prevención. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 41(190):27-28. Oct./Dec.1950. 8 R323
- 44797 FREI, W. Ist die entzündung eine heilreaktion? *Wien. Tierärztl. Monatsschr.* 38:5-21. Ref. Jan.1951. 41.8 T345
- 44798 GALWEY, J. R. Animal health service. The Veterinary and Remount Service, Middle East Land Forces—the Royal Army Veterinary Corps. *Brit. Vet. J.* 107:94-96. Mar.1951. 41.8 V643
- 44799 GEORGE, N. The adrenals of the camel. *Brit. Vet. J.* 107:122-124. Mar.1951. 41.8 V643
- 44800 GILBERT, J. Problèmes de formation professionnelle des médecins vétérinaires-hygiénistes. *Canad. J. Compar. Med.* 15:72-76. Mar.1951. 41.8 C162
- 44801 GIROUD, P., and JADIN, J. Essais d'isolement de souches de fièvre Q au Ruanda-Urundi du lait de vache, du cerveau de chèvres et de tiques [Haemaphysalis leachi, Amblyomma variegatum] d'animaux domestiques et sauvages. *Soc. de Path. Exot. B.* 43:672-673. 1950. 448.9 S013
- 44802 GODFRAIN, J. S. Miscellanées biochimiques ou promenade biochimique à travers la médecine. *Rev. de Méd. Vét.* [Toulouse] 101:519-528. Nov.1950. 41.8 R32
- 44803 GREGOIRE, C. A propos de quelques parasites des animaux domestiques au Congo Belge. *Ann. de Méd. Vét.* 94:690-705. Ref. Dec.1950. 41.8 An78
- 44804 HAAS, K. B. The psychology of client relations. *Vet. Med.* 46:185-190. May 1951. 41.8 M69
- 44805 HAGAN, W. A. Veterinary medical education—its evolution and present status. *Amer. Vet. Med. Assoc. J.* 118:287-292. May 1951. 41.8 Am3
- 44806 HALEY, T. J., and DICKINSON, R. W. An ether anesthesia apparatus for small animals. *Amer. Pharm. Assoc. J. Sci. Ed.* 40:187-188. Apr.1951. 396.9 Am33J
- 44807 HEEREN, R. H., and HENDRICKS, S. L. How public health works: rabies control. *Vet. Med.* 46:176. May 1951. 41.8 M69
- 44808 HENDERSON, J. Y. Circus doctor; as told to Richard Taplinger. Boston, Little, Brown, 1951. 238 p. 41 H383
- 44809 HUGHES, J. S. The hormones—what they are and their functions. *Feedstuffs* 23(12):30-34, 36. Mar.24. 1951. 286.81 F322
- In animal physiology.
- 44810 JANOWSKI, B. Concentrated feeds as occasional cause of disease in animals. (In Polish.) *Med. Weter.* 6:535-538. Sept.1950. 41.8 M463
- 44811 KIESCHKE, S. Ist eine einseitige ausbildung am Thygesen-embryotom richtig? *Deut. Tierärztl. Wchnschr.* 58:23-24. Jan.15.1951. 41.8 D482
- 44812 KNAPPENBERGER, J. F. Digestive disorders in ruminants. *Haver-Glover Messenger* 31(3/4):6-10. Mar./Apr.1951. 41.8 H29
- 44813 KÖHLER, H. Zum heutigen stand der struktur des peripheren vegetativen nervensystems. *Deut. Tierärztl. Wchnschr.* 58:17-22. Jan.15.1951. 41.8 D482
- 44814 KORIAZHNOV, V. P. Trikhinel'oz zhivotnykh i opasnost' ego dlia cheloveka [Trichinosis of animals and its danger to man]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 20 p. 436 K84
- 44815 KOROPOV, W. M. The application of Pavlov's science to veterinary practice. (In Polish.) *Med. Weter.* 6:705-712. Dec.1950. 41.8 M463
- 44816 LACHOWICZ, S. Foreign bodies in animals. (In Russian.) *Med. Weter.* 6:524-526. Sept.1950. 41.8 M463
- 44817 LAHURE, R. Les méthodes de retard en pénicillinothérapie vétérinaire. Paris, Foulon, 1950. 124 p. Ref. 41.2 L136
- Thèse - École Nationale Vétérinaire d'Alfort.
- 44818 LEÃO, R. L. Ascaridiosis of domestic animals. (In Portuguese.) *B. de Indús. Anim. (n.s.)* 11: 163-192. Ref. June 1950. 49 R324
- 44819 LEPETIT, J. Essais d'acupuncture sur les animaux. Paris, Foulon, 1950. 64 p. Ref. 41.2 L557
- Thèse - École Nationale Vétérinaire d'Alfort.
- 44820 LIENERT, E. Ist die methode des zuwartens bei verstopfungen des schlundes mit vegetabilien fremdkörpern angezeigt? *Wien. Tierärztl. Monatsschr.* 38:159-168. Ref. Mar.1951. 41.8 T345
- 44821 LOUSSE, A. Le métabolisme de la vitamine C chez les ruminants. *Ann. de Méd. Vét.* 95:18-31. Ref. Jan.1951. 41.8 Am78
- 44822 LOUSSE, A. Micro-parasites gastro-intestinaux et synthèse vitaminique dans le rumen. *Ann. de Méd. Vét.* 94:665-689. Ref. Dec.1950. 41.8 An78
- 44823 LÜHRS, E. Versuch zur diagnostik der aktiven tuberkulose. *Monatsh. f. Prakt. Tierheilk. (n.s.)* 2:273-288. Ref. 1950. 41.8 M74
- 44824 LUNDELL, A. Care of livestock diseases in Södermanland Province. (In Swedish.) *Skand. Kreatursförsäkringsbol. Månadsbl.* 29:27-28. Feb.1951. 49.9 Sk1
- 44825 MARMION, B. P. "Q" fever. *Roy. Sanit. Inst. J.* 71:97-102. Ref. Mar.1951. 449.9 R812
- Relation of livestock and ticks to presence of disease in man.
- 44826 MARUCCHI, J. Psychologie paysanne; empirisme et médecine vétérinaire. Paris, Foulon, 1950. 66 p. 41.2 M365
- Thèse - École Nationale Vétérinaire d'Alfort.
- 44827 MASOERO, P. Professional aspects and some zootechnical duties of the veterinarian. (In Italian.) *Prog. Vet.* 6:152-156, 158-159. Ref. Mar.1.1951. 41.8 P942
- 44828 MATTEIS, L. M. DE. Didactic possibilities for veterinarians. (In Italian.) *Prog. Vet.* 6:160, 162-164. Mar.1.1951. 41.8 P942



- 44829 MENEGHETTI, M. Address on hydatidosis. (In Portuguese.) Fed. das Assoc. Rur. do R. G. do Sul. B. 10(93):14-16, 13. Dec. 1950. 9.2 F31
- 44830 MILNE, F. J. The Animals (Anaesthetics) Act, 1919—a plea for its revision. Vet. Rec. 63:238-239. Mar. 31, 1951. 41.8 V641  
Great Britain.
- 44831 MINETT, F. C. Livestock diseases and pests in Pakistan. Agr. Pakistan 1:150-155. 1950. 22 Ag832
- 44832 MONTALTI, M. A new infectious disease: Q fever. (In Italian.) Riv. di Zootec. 23:363-364. Nov. 1950. 49 R52
- 44833 MORALES OTERO, P. La rabia y su posible erradicación. Campo [Guadalajara] 19(13):4-6. Jan. 1951. 8 G76  
Also in Cuba Ganad. 10(7):24-28. Mar. 1, 1951. 49 C89
- 44834 MORÁN, B. L. Comentarios sobre el Tercer Congreso Panamericano de Brucelosis. Gac. Vet. 12:261-269. Nov./Dec. 1950. 41.8 G112
- 44835 MORCOS, Z. Recent advances in virus diseases. Amer. Vet. Med. Assoc. J. 118:312-315. Ref. May 1951. 41.8 Am3
- 44836 MÜLLER, K. Clinical experiments with penicillin and its use in veterinary practice. (In Polish.) Med. Weter. 6:728-730. Dec. 1950. 41.8 M463
- 44837 NELL, W. Die Röntgengurchleuchtung bei tageslicht (grundlagen und möglichkeiten). Deut. Tierärztl. Wchnschr. 58:49-50. Feb. 15, 1951. 41.8 D482
- 44838 OBERHELMAN, L. Indiana's fight against brucellosis. J. Home Econ. 43:268-269. Apr. 1951. 321.8 J82
- 44839 ONO, Y. Kachiku byorigaku soron [Elements of pathology of domestic animals]. Tokyo, Asakura Shoten, 1950. 310 p. 41 On6
- 44840 ORMOND, R. B. We can have more meat; cutting cripple losses, disease, part of answer. Dairyland News 21(3):9, 12. Mar. 1951. 280.28 W752
- 44841 OTTEN, E., PIEKARSKI, G., and WESTPHAL, A. Sammelreferat: Die bedeutung der toxoplasmose für die veterinärmedizin. Deut. Tierärztl. Wchnschr. 58:24-26. Ref. Jan. 15, 1951. 41.8 D482
- 44842 PARNAS, J., and KOBUSIEWICZ, T. Impressions from a scientific visit to German Democratic Republic. (In Polish.) Med. Weter. 6:572-576. Oct. 1950. 41.8 M463
- 44843 PETTER, F. La détermination expérimentale du sexe chez les Mammifères. Paris, André, 1950. 36 p. 442 P452  
Thèse - École Nationale Vétérinaire d'Alfort.
- 44844 POLIAKOW, A. A. Theory and practice of veterinary disinfection. (In Polish.) Med. Weter. 6:505-509. Sept. 1950. 41.8 M463
- 44845 POLIAKOW, D. K. The popularization of science and the introduction of scientific achievements are the main tasks of veterinary specialists. (In Polish.) Med. Weter. 6:640-643. Nov. 1950. 41.8 M463  
U.S.S.R.
- 44846 POTTENGER, F. M., JR., ALLISON, I., and ALBRECHT, W. A. Brucella-infektionen. Monatsh. f. Prakt. Tierheilk. (n.s.) 2:302-304. 1950. 41.8 M74
- 44847 RADKEVICH, P. E. Feed poisonings of farm animals. (In Russian.) Veterinariya 27(11):37-40. Nov. 1950. 41.8 V6426
- 44848 RAMANUJACHARI, G., and ALWAR, V. S. Some observations on sarcosporidiosis of domestic animals in Madras. Indian Vet. J. 27:264-266. Jan. 1951. 41.8 In2
- 44849 RAMON, G. Anatoxins, avirulent vaccines, and their application. (In Italian.) Zooprofilassi 5:545-548, 551-555. (Cont.) Dec. 1950. 41.8 Z72
- 44850 REBOUR, J. Deux maladies du passé: la morve et la rage. Paris, Foulon, 1950. 52 p. Ref. 41.2 R24  
Thèse - École National Vétérinaire d'Alfort.
- 44851 REMLINGER, P. Sur la disparition de la rage en France. Acad. Vét. de France. B. 24:41-43. Jan. 1951. 41.9 R24
- 44852 RENOUX, G., and QUATREFAGES, H. L'identification des Brucella par leur activité uréasique; comparaison avec les autres méthodes de différenciation. Inst. Pasteur. Ann. 80:182-188. Ref. Feb. 1951. 448.3 An75
- 44853 ROBERT, J. Du traitement de la fièvre charbonneuse. Paris, Foulon, 1950. 72 p. 41.2 R542  
Thèse - École Nationale Vétérinaire d'Alfort.
- 44854 RÖHRER, H., MÖHLMANN, H., and PYL, G. Expériences faites au cours de la préparation et de l'emploi du vaccin adsorbé anti-aphteux de l'Institut de Riems. Off. Internatl. des Epiz. B. 35:35-53. Jan./Feb. 1951. 41.8 Of2
- 44855 ROSENBUSCH, C. La aftosa nos causa perdidas por mas de mil millones de pesos al año. (Sum.) Pampa Argentina 24(278):5, 22. Jan./Feb. 1951. 9 P19
- 44856 ROSSI, F. A. Esterilización de la vacuna anti-aftosa por antibiosis. Gac. Vet. 12:253-260. Nov./Dec. 1950. 41.8 G112
- 44857 ROUBAUD, E., and BOURDIE, M. Essais sur l'action curative et préventive de l'antricyde sur les trypanosomiasis animales. Soc. de Path. Exot. B. 43:552-556. 1950. 448.9 So13
- 44858 ROUZIES, G. Sondage naso-oesophagien avec sonde et pompe américaines. Rev. de Méd. Vét. [Toulouse] 101:580-582. Nov. 1950. 41.8 R32
- 44859 SÁNCHEZ HERNANDO, F., ROCHA GARCÍA, E. DE LA, and ROCHA GARCÍA, I. DE LA. El consultor jurídico del veterinario (enciclopedia legislativa-veterinaria), v. 1. A-D. Talavera de la Reina, Gómez, 1950. 546 p. 41.5 Sa5
- 44860 SARKISOV, A. KH., DZHILAVIAN, KH. A., and AIZENSHTAT, TS. I. Medicinal action of "muchel" in ringworm [treatment]. (In Russian.) Veterinariya 27(11):19-23. Nov. 1950. 41.8 V6426  
Millet by-product.
- 44861 SAURAT, P., GORET, P., and JOUBERT, L. Quelques nouveaux antibiotiques en médecine vétérinaire. Rev. de Méd. Vét. [Toulouse] 101:545-564. Nov. 1950. 41.8 R32
- 44862 SCHRÖTER, A. 50 Jahre Tiergesundheitsamt Halle (Saale); die geschichtliche entwicklung des Institutes. Monatsh. f. Vetmed. 6:86-87. Mar. 1, 1951. 41.8 M742
- 44863 SIMONPIETRI, R. H., and SAPHIR, B. Método práctico de reconocer las enfermedades de los animales. Chacra 21(244):16-17, 76. Mar. 1951. 9 C34
- 44864 SIMONPIETRI, R. H. Salud y enfermedades de los animales. Ecuador. Segunda Zona. Cdm. de Agr. B. 4(19):8-11. Oct./Dec. 1950. 9.5 Ec95B
- 44865 SOMERS, R. K. The lymph glands of cattle, hogs, and sheep. U. S. D. A. C. 866, rev., 29 p. Jan. 1951. 1 Ag84C  
Supersedes Circular 32.
- 44866 STEFANIAK, W. Roentgenological observations on the epiphyseal fractures of long bones in domesticated animals. (In Polish.) Med. Weter. 6:594-597. Oct. 1950. 41.8 M463
- 44867 STEFANSKI, W. Veterinary parasitology and the congress of science. (In Polish.) Med. Weter. 6:713-717. Dec. 1950. 41.8 M463
- 44868 STEVENS, C. Diseases of Animals Act, 1950. Pharm. J. 166:37. Jan. 13, 1951. 396.8 P49  
Great Britain.
- 44869 SZAFIARSKI, J. The application of the intra-dermo-palpebral allergic test in the diagnosis of parasitic diseases of domestic animals. (In Polish.) Med. Weter. 6:585-589. Ref. Oct. 1950. 41.8 M463  
English summary.
- 44870 SZYFELBEJN, E. A simple way of the attendance and treatment of the external ear of animals. (In Polish.) Med. Weter. 6:668-669. Nov. 1950. 41.8 M463
- 44871 SZYFRES, B. La brucelosis animal en los Estados Unidos de N. América. V-VIII. Uruguay. Min. de Ganad. y Agr. B. Inform. 7(357):15, 14; (358):15, 14; (359):9-10; (360):15. Jan. 25-Feb. 22, 1951. 9.9 G15B
- 44872 TARASOV, V. R. Castration of two-humped camels. (In Russian.) Veterinariya 27(11):49-52. Nov. 1950. 41.8 V6426
- 44873 THOMPSON, S. L. New livestock disease laws briefed. Hoosier Farmer 36(4):20-21. Apr. 1951. 280.82 H76
- 44874 TORPANOV, F. G. Useful suggestions. (In Russian.) Veterinariya 27(11):58. Nov. 1950. 41.8 V6426  
Treatment of gastroenteritis with garlic infusion.
- 44875 TORRES MUÑOZ, L. E. Inmunización de la fiebre carbonosa por medio de vacuna avirulenta derivada de cepas virulentas. Rev. Gracolumb. de Zootec. Hig. y Med. Vet. 4:5-28. Ref. Jan./Mar. 1950. 41.8 R3253
- 44876 UGANDA. VETERINARY DEPT. Annual report for the year ended 31st December, 1949. Entebbe, 1950. 34 p. 41.9 Ug1
- 44877 WENS, H. M. Beitrag zur tuberkulosebekämpfung. Tierärztl. Umschau 6:101-102. Mar. 1951. 41.8 T445
- 44878 WEYL, Tierärztekammer Niedersachsen, körperschaft des öffentlichen rechts. Deut. Tierärztl. Wchnschr. 58:1-2. Jan. 1, 1951. 41.8 D482



- 14879 WIMMER, F. X. Die verpflichtung aller tierärzte zu amtshandlungen nach dem tierseuchengesetze. Wien. Tierärztl. Monatsschr. 38:22-25. Jan. 1951. 41.8 T345
- 14880 WOOD, E. M. The cloven hoof. Anthroposophical Agr. Found. Notes & Corresp. (n.s.):1:2-8. Spring 1950. 10 An8
- 14881 ZALESKI, J. Toxicology of the seeds Ricinus communis L. (In Polish.) Med. Weter. 6:597-600. Ref. Oct. 1950. 41.8 M463

## MISCELLANEOUS

- 14882 AIMS AND programmes of the Italian Society for the Progress of Zootechny. (In Italian.) Zootec. e Vet. 5:965-967. Nov. 1950. 41.8 Z7
- 14883 ALBAUGH, R. Efficient [livestock] production. West. Livestock J. 29(16):35,141. Feb. 15, 1951. 6 F2278 Ranch management.
- 14884 ALEXANDERSSON, H. The reason for the development of slaughtering organizations. (In Norwegian.) Landbrukstidende 57:115. Feb. 7, 1951. 11 L236
- 14885 BETTINI, T. M. The Inter-American Conference on Animal Production at Turrialba, Costa Rica. (In Italian.) Riv. di Agr. Subtrop. e Trop. 44:283-286. Oct./Dec. 1950. 26 Ag82
- English summary.
- 14886 CUENCA, C. L. DE. Cartas de América. I-VIII. B. de Divulg. Ganad. [Valladolid] 7:307-352. Sept. 1950. 49.9 Sp12
- I, En el frente venezolano contra la fiebre aftosa, p. 309-315; II, Misión especial en Maracaibo y en los Andes, p. 316-321; III, De los llanos del Guárico al Orinoco, p. 322-326; IV, De Caracas a Río de Janeiro, p. 327-331; V, Brasil, la nación de espléndido futuro, p. 322-337; VI, La humilde exposición del cincuentenario de Mendel, p. 338-342; VII, El Uruguay, remanso del Plata, p. 343-346; VIII, Palermo, p. 347-352.
- 14887 DIAS, J. A. T. S. Things the livestock producer must not ignore. I. (In Portuguese.) Gaz. do Agr. 3:5-8. Jan. 1951. 24 G25
- 14888 DUCURTIL, F. Sidi-Tabet. Almanach Agr. Tunisie 1951:243-253. 24 Al6
- Livestock.
- 14889 FLAMIGNI, A. Le gros bétail au Mayumbe. Belgium. Min. des Colon. B. Agr. du Congo Belge 42:91-106. Mar. 1951. 24 K83
- 14890 FUMERY, G. La clôture dans l'élevage des animaux domestiques. Paris, Foulon, 1950. 72 p. Ref. 40 F96
- Thèse - École Nationale Vétérinaire d'Alfort.
- 14891 FURUNO, Y. Kachiku no shiku to keiei [Livestock raising and management]. Tokyo, Seibundo Shinkosha, 1950. 275 p. 40 F98
- 14892 GLADHART, P. R. Spokane, the junior show that spirit built. West. Livestock J. 29(16):40,168,170. Feb. 1951. 6 F2278
- Junior Livestock Show of Spokane.
- 14893 HUFF, E. Why not open sheds? Produce livestock close to nature's way; let them find shelter when they need it. Breeder-Stockman 12(11):85,87. Apr. 1951. 49 V81
- 14894 ILLINGWORTH, F. The reindeer in modern warfare. Roy. Army Vet. Corps. J. 22:5-7. Mar. 1951. 41.8 G79
- 14895 KULIKOV, A. A. Leaders in animal industry. (In Russian.) Veterinariia 27(11):57-58. Nov. 1950. 41.8 V6426
- M. A. Dzharov's achievements in livestock raising on Berliia Collective Farm in Nakhichevan ASSR.
- 14896 LENER, A. The treatment of draught animals. (In Hebrew.) Hassadeh 31:192. Jan. 1951. 26 H27
- 14897 LIGONDES, F. DE. L'élevage en plein air. Unité Paysanne 6(277):3. (Cont.) Mar. 17, 1951. 14 Un3
- Livestock.
- 14898 MAZEL, M. Les ancêtres préhistoriques des animaux domestiques peints et gravés dans la grotte de Lascaux. Acad. Vét. de France. B. 24:73-80. Jan. 1951. 41.9 R24
- 14899 MITSUHASHI, G. Chikusan [Live stock]. Osaka, Fumisha, 1950. 208 p. 40 M692
- 14900 PEÑA MÁRQUEZ, J. Memoria de la labor realizada en mataderos industriales y fábricas de chacinadas de la Zona de Ronda. B. de Zootec. 7(65):15-23. Jan. 1, 1951. 41.9 Sol6

- 14901 PEREZ CATAN, E. Contribución al estudio de la ganadería fueguina. Res 19:25784-25786. Mar. 5, 1951. 286.85 R31

- 14902 ROARK, C. Lands of the South. 3. Coastal Plains aren't coasting; large area to south of Piedmont looms as all year grass-growing area for commercial and purebred operations; demand, interest is mounting. South. Livestock J. 10(9):16-17,44. Apr. 1951. 43.8 F66A

- 14903 SHURAPEI, G. Acceptance and care of live-stock at the bases of Moscow Meat Combine. (In Russian.) Miasnaia Indus. SSSR. 21(5):60-63. Sept./Oct. 1950. 50.8 M58

- 14904 SILVEIRA, G. G. DA. Classification of mammi-ferae. (In Portuguese.) Lavoura 54:43-45. Nov./Dec. 1950. 9.2 L39

- 14905 VIEIRA, G. V. N. A great demonstration. (In Portuguese.) Fed. das Assoc. Rur. do R. G. do Sul. B. 10(91):2-5. Oct. 1950. 9.2 F31

- Livestock show in Rio Grande do Sul.
- 14906 VILLARES, J. B. Livestock climatology. IX. Aspects of meat production in certain tropical zones. (In Portuguese.) Bahia. Sec. da Agr., Indus. e Com. Serv. de Divulg. B. 46(6):79-105. Mar. 1950. 9.2 B14

## CATTLE

## Breeds and Breeding

- 14907 ANDERSON, B. Shorthorns' "white" year. Farming News & No. Brit. Agr. 103:39-40. Jan. 1, 1951. 10 N82
- 14908 BACCARANI, G. Bulls of Brown Swiss breed of genealogical value in the public breeding stations of the mountain zone. (In Italian.) Campagnolo 5(12):3. Dec. 1950. 16 C15
- 14909 BEVILACQUA, G. Selection of Romagnola cattle in the Province. (In Italian.) Agr. Romagn. 1951 (3):3. Feb. 5, 1951. 16 Ag828
- 14910 BILLINGTON, T. F. Beef from poorer milkers. Farmer & Stock-Breeder 65(3205):65-66. Mar. 27/28, 1951. 10 F228
- How artificial insemination is helping meat supplies in Great Britain.
- 14911 BLOIS, A. Valeur de l'insémination artificielle dans la lutte contre la stérilité des bovidés. Paris, Foulon, 1950. 60 p. Ref. 41.2 B623
- Thèse - Ecole Nationale Vétérinaire d'Alfort.
- 14912 BOGUTH, W., and MULLER, E. Die bestimmung totor spermien mittels eosin im bullensperma. Deut. Tierärztl. Wchnschr. 58:50-52. Feb. 15, 1951. 41.8 D482
- 14913 BONADONNA, T. Artificial insemination and milk production. (In Italian.) Zootec. e Vet. 5:1041-1053. Dec. 1950. 41.8 Z7
- French summary.
- 14914 BONADONNA, T., and CAMICI, D. The experimental livestock farms of the S.A. per le Bonifiche. A valuable and proven sire. (In Italian.) Zootec. e Vet. 5: 921-934. Nov. 1950. 41.8 Z7
- 14915 BONE, H. Ayrshires again to the forefront. Farming News & No. Brit. Agr. 103:51-53. Jan. 1, 1951. 10 N82
- 14916 BRIGATTI, C. Study on correlation and relation in bulls between race, age, dimension and weight of testicles and weight of epididymus. (In Italian.) Zootec. e Vet. 6:24-38. Jan. 1951. 41.8 Z7
- English summary.
- 14917 BROWN, E. Guernseys in Kenya. Guernsey Breeders' J. [London] (n.s.):5:17,19. Spring 1951. 43.8 G932
- 14918 BURG, W. B. V. D. Sterility of cattle. (In Dutch.) Tijdschr. v. Diergeneesk. 76:231-237. Mar. 15, 1951. 41.8 T431
- English summary.
- 14919 BUSSO, G. Informe elevado a la comisión de jurados de ACHA; opinión del jurado. Criadores de Holando 1(9):18. June 1950. 43.8 C86
- Asociación Criadores Holando Argentino.
- 14920 CANADIAN JERSEY CATTLE CLUB. The Canadian Jersey herd record, v. 21. Ottawa, 1950. 573 p. 43.9 C163
- 14921 CARRINGTON, J. Judging Guernseys in Australia. Guernsey Breeders' J. [London] (n.s.):5:52,54. Spring 1951. 43.8 G932
- 14922 COLLINS, W. J., BRATTON, R. W., and HENDERSON, C. R. The relationship of semen production to sexual excitement of dairy bulls. J. Dairy Sci. 34:224-227. Ref. Mar. 1951. 44.8 J822



- 44923 COLMENARES M., R. El Blanco Orejinegro en la Granja del Nus. Ganado 3(21):44-49. Oct.1950. 49 G153  
Colombia.
- 44924 CORRÉA, A. P. Data on the national cattle selection farm. (In Portuguese.) Soc. Rur. Bras. Rev. 31(362):30-33. Jan.1951. 9.2 B733
- 44925 CORRIAS, A. Valuation of bull's fertility with reduction test of semen. (In Italian.) Zootec. e Vet. 6: 48-58. Jan.1951. 41.8 Z7  
English summary.
- 44926 DERBAL, Z. Traitement des femelles bovines infertiles au Centre Expérimental d'Élevage de Sotuba (Soudan). French West Africa. Insp. Gén. de l'Élevage. B. des Serv. de l'Élevage et des Indus. Anim. 3(2/3):31-34. Apr./Sept.1950. 41.9 F88B
- 44927 DODIER, J. P. Génétique et production laitière: la sélection des taureaux en Frise. Paris, Foulon, 1950. 64 p. Ref. 43 D66  
Thèse - École Nationale Vétérinaire d'Alfort.
- 44928 DRUMMOND, R. Breeding for milk and "beauty." Farming News & No. Brit. Agr. 103:22-23. Jan.1, 1951. 10 N82
- 44929 DUNCAN, A. B. Hill beef from Galloways; breed's big year. Farming News & No. Brit. Agr. 103: 46-47. Jan.1, 1951. 10 N82
- 44930 ESMENARD, G., and DASSAT, P. Selection of cattle in Piedmont. (In Italian.) Cong. Agr. Naz. Atti 1948:489-533. 1950. 27 C7625
- 44931 FINLEY, C. B. An eye for breeding. Guernsey Breeders' J. [Peterborough] 81:1214-1215, 1235. Apr.18, 1951. 43.8 G93
- 44932 FRIES, K. Notes on the control of sterility in cattle. (In Polish.) Med. Weter. 6:733-734. Dec.1950. 41.8 M463
- 44933 FULGENZI, U. N. Results of eighty years of improving Perugia cattle. (In Italian.) Agricoltore [Perugia] 8(2):3;(3):3. Jan.1/31-Feb.1/15, 1951. 281.8 Ag822
- 44934 GARM, O. Current sterility problems in cattle. (In Norwegian.) Produzenten 19(2):4,15-16. Feb. 1951. 11 P94
- 44935 GAZAL, J. La race bovine de Salers; sa production laitière. Paris, Foulon, 1950. 63 p. Ref. 43 G25  
Thèse - École Nationale Vétérinaire d'Alfort.
- 44936 GENOUD, J. E. Las aptitudes del Holando Argentino. Criadores de Holando 1(9):30-31, 66-67. June 1950. 43.8 C86
- 44937 GIFFORD, C. W. New cattle for the South. Farm J. 65(4):57, 59-60, 63. Apr.1951. 6 F2212  
Red Sindh.
- 44938 GORDON, G. E. A challenge to the dairy industry! Breeders of pure bred cattle have a great opportunity and an obligation to perform a valuable service to our whole industry. Guernsey Breeders' J. [Peterborough] 81:1030-1031, 1049. Apr.4, 1951. 43.8 G93
- 44939 GRIFFIN, B. J. Keep 'em dual-purpose. Milking Shorthorn J. 32(4):1, 45. Apr.1951. 43.8 M59
- 44940 HAMER, R. S. Les éleveurs devraient recourir davantage au Livre d'Elite. Digeste de l'Éleveur 5(7):19-20. Mar.1951. 49 D56  
Dairy cattle.
- 44941 HANSEN, K. Afkomsprøver med tyre. V. [Progeny tests with bulls]. Denmark. Stat. Husdyrbrugsudv. Forsøgslab. Beret. 254/123 p. 1951. 104 D41  
English summary.
- 44942 HARMSSEN, W. L. Application and perspectives of artificial insemination in Zeeland. (In Dutch.) Stamboek 33:13. Feb.15, 1951. 43.8 V58  
Cattle.
- 44943 HARRIS, J., and WYLIE, I. New Angus record 8,500gs. Farmer & Stock-Breeder 65:503. Feb.13, 1951. 10 F228  
Bull sold for 8,500 guineas in England.
- 44944 HATCH, P. W. Caste system in Guernseys. Guernsey Breeders' J. [Peterborough] 81:825, 845. Mar.21, 1951. 43.8 G93
- 44945 HELMENIUS, A. Purchase of bulls by artificial insemination associations. III. (In Swedish.) Lantmannen 35:252. Mar.24, 1951. 11 L234
- 44946 HILL, C. B. On generation of Guernsey breeding. Tex. Livestock J. 10(2):97-98. Feb.15, 1951. 49 T29
- 44947 HOBSON, G. Friesians "feast" in 1950. Farming News & No. Brit. Agr. 103:42-43. Jan.1, 1951. 10 N82
- 44948 HUTCHINSON, J. What makes a cow live longer? In the long-lived Winton herd of dairy Shorthorns of Messrs. J. R. Burge and Son, factors contributing to longevity include an entirely open-air life and the handling of the herd as a unit on the management side with a realistic view of the value of pedigree in the matter of breeding. Farmers Wk. [London] 34(11):52-53. Mar.16, 1951. 10 F2226
- 44949 IVANOVA, V. V. In regard to overcoming sterility in yak x cattle hybrid bulls. (In Russian.) Agro biologifa 1950(6):107-110. Nov./Dec.1950. 20 Ag822
- 44950 JOHANSSON, I. Cattle breeding in England. (In Swedish.) Mjölpropagandan 28:10-11. Jan.1951. 44.8 M692
- 44951 JOHNSON, L. E. Blacks "go west" for breeding tests. Aberdeen-Angus J. 32(8):49, 108, 110, 112, 114. Mar.1951. 43.8 Ab3  
Work at Fort Robinson Beef Cattle Research Station.
- 44952 JOHNSTON, J. E., and MIXNER, J. P. Effects of added hyaluronidase and hyaluronic acid on the motility of bull spermatozoa. J. Dairy Sci. 34:116-118. Feb.1951. 44.8 J822
- 44953 KEITH, A. Aberdeen Angus in the van for attested beef. Farming News & No. Brit. Agr. 103:35-37. Jan.1, 1951. 10 N82
- 44954 KENNEDY, C. An outstanding college herd; Oklahoma A. & M. Daddies have enviable reputation. Aberdeen-Angus J. 32(8):58, 86, 88, 90. Mar.1951. 43.8 Ab3
- 44955 KNIGHT, C. W., and others. The relation of site of semen deposit to breeding efficiency of dairy cattle. J. Dairy Sci. 34:199-202. Mar.1951. 44.8 J822  
T. E. Patrick, H. W. Anderson, and C. Branton, joint authors.
- 44956 LAMIRE, La race Brune des Alpes ou de Schwyz au Maroc. Terre Marocaine 25:43-47, 75-77. Feb.-Mar.1951. 24 T44
- 44957 LEGEAY, G., and SOW, M. Rendement en viande de la race bovine N'Dama en Guinée Française. French West Africa. Insp. Gén. de l'Élevage. B. des Serv. de l'Élevage et des Indus. Anim. 3(2/3):15-20. Apr./Sept. 1950. 41.9 F88B
- 44958 LETTRE, J. P. La formule "Mercier" et les éleveurs de pur-sang. Digeste de l'Éleveur 5(7):24-27, 31. Mar.1951. 49 D56  
Cattle.
- 44959 LLANO POSADA, A. El Holstein Friesian en Antioquia. Ganado 3(21):53-55. Oct.1950. 49 G153
- 44960 LÜHRS, Umbullen und sterilität. Deut. Landwirt. Presse 74:35-36, 46-47. Feb.3, 17, 1951. 18 D482
- 44961 MCCALLUM, J. W. Jersey cattle in Scotland. Farming News & No. Brit. Agr. 103:54. Jan.1, 1951. 10 N82
- 44962 MCTURK, T. Herefords gain ground in Scotland. Farming News & No. Brit. Agr. 103:48. Jan.1, 1951. 10 N82
- 44963 MARSHALL, A. J. Shorthorn jubilee. Farming News & No. Brit. Agr. 103:20-21. Jan.1, 1951. 10 N82  
Breeding and exhibiting Shorthorn cattle.
- 44964 MOORHOUSE, S. Herd's three-point breeding plan. Dairy Farmer 24(1):15. Jan.1951. 44.8 D1414
- 44965 MOSLE, H. B. Bull philosophy. Ayrshire Digest 37:97, 179, 181-182. Mar.15, 1951. 43.8 Ay7  
Records.
- 44966 MOTTE, P. L'élevage sélectionné de veaux Charolais destinés à la reproduction dans la Nièvre. Paris, Foulon, 1950. 64 p. Ref. 43 M852  
Thèse - École Nationale Vétérinaire d'Alfort.
- 44967 OLDS, D., BUSH, L. J., and WILLIAMSON, G. E. Artificial insemination of dairy cattle in Kentucky. Ky. Agr. Col. Ext. C. 485, 15 p. Sept.1950. 275.29 K415
- 44968 ORENSANZ MOLINE, J. La raza vacuna "Asturiana" en el concurso de ganados de la I Feria Nacional del Campo. B. de Divulg. Ganad. [Valladolid] 7: 394-398. Dec.1950. 49.9 Sp12
- 44969 ORENSANZ MOLINE, J. La raza vacuna "Pirenaica" en el concurso de ganados de la I Feria Nacional del Campo. B. de Divulg. Ganad. [Valladolid] 7: 271-276. Sept.1950. 49.9 Sp12
- 44970 PRIESHOF, Was brachten die hauptkörnungen für stiere im Emsland 1950? Landwirtsch. Weser-Ems 98: 182-183. Mar.1, 1951. 18 L2345
- 44971 REED, O. E. Mejoramiento de los pura-sangre. Hacienda 46(3):49-50. Mar.1951. 6 H11  
Cattle.



- 44972 RIMBERGER, G. W. Herd sire fertility. *Ayrshire Digest* 37:100,169-171,176. (To be cont.) Mar.15, 1951. 43.8 Ay7
- 44973 ROF CODINA, J. Raza bovina Gallega Rubia Mejorada. I. Cult. Mod. 34:9-10. Jan.1951. 15 C89
- 44974 ROTTENSTEN, K., and WIBLING, H. I. Forsøg med fortyndingsvaedsker. II. Sammenligning mellem flydende og gelatineret fortyndingsvaedske [I. Experiments with diluents. II. Comparison between liquid and gelatinized diluents]. Denmark. Stat. Husdyrbrugsudv. Forsøgs-lab. Beret. 253,23 p. 1951. 104 D41  
English summary.  
I, by K. Rottensten; II, by K. Rottensten and H. Wibling. Bull. semen.
- 44975 ROZZI, U. Results obtained in genotypic selection of dairy cattle in the Province of Parma. (In Italian.) *Avvenire Agr.* 59:32-35. Feb.1951. 16 Av9
- 44976 RUPP, E. Red Sindhi dairy cattle. *Kans. Farmer* 88(5):12-13. Mar.3,1951. 6 K13
- 44977 SÆLAND, J. Norwegian or foreign? (In Norwegian.) *Norsk Landbr.* 17:114-116. Mar.16,1951. 11 N8122  
Cattle breeding.
- 44978 SALÈ, C. O. Activity of the artificial insemination center of the "Pio Istituto Gallini" in Voghera. (In Italian.) *Zootec. e Vet.* 6:118-122. Feb.1951. 41.8 Z7  
Cattle.
- 44979 SCHOTT, R. G., and others. Inheritance of certain body measurements and measures of performance in steers. (Abs.) *Genet. Soc. Amer. Rec.* 19:124-125. 1950. 442.9 G28  
W. M. Dawson, A. C. Cook, and M. L. Kohli, joint authors.
- 44980 SINHA, B. N. Taylor cows of Patna. *Indian Vet. J.* 27:272-276. Jan.1951. 41.8 In2
- 44981 SOLDATI, M. The activities of the artificial insemination center at Bondeno in its first year of functioning. (In Italian.) *Riv. di Zootec.* 23:358-359. Nov.1950. 49 R52  
Cattle.
- 44982 SPLENDIANI, F. Activity of the artificial insemination centre of Macerata during the year 1949. (In Italian.) *Zootec. e Vet.* 5:971-972. Nov.1950. 41.8 Z7  
Cattle.
- 44983 STEBNICKI, S. Is there any harmful influence of breeding dairy cattle with high scale milk points on their reproduction? (In Polish.) *Med. Weter.* 6:734. Dec.1950. 41.8 M463
- 44984 STEELE, J. A., and RAITHEY, G. E. Dairy cattle production. *Agr. Inst. Rev.* 6(2):21-25. Mar.1951. 7 Ag8  
Breeding and herd classification.
- 44985 STEWART, A. The development of the Dairy Shorthorn in Britain. *Roy. Agr. Soc. Eng. J.* 111:61-74. Ref. 1950. 10 R81
- 44986 TABLER, K. A., TYLER, W. J., and HYATT, G., JR. Type, body size and breeding efficiency of Ayrshire cow families. *J. Dairy Sci.* 34:95-105. Ref. Feb. 1951. 44.8 J822
- 44987 TOMSON, C. K. Shorthorns swinging into the Southwest. II. *Tex. Livestock J.* 10(2):86. Feb.15,1951. 49 T29
- 44988 TOUCHBERRY, R. W. Genetic correlations between five body measurements, weight, type and production in the same individual among Holstein cows. *J. Dairy Sci.* 34:242-255. Ref. Mar.1951. 44.8 J822
- 44989 TREMBLEY, M. La race Tarentaise en Savoie. Paris,Foulon,1950. 76 p. Ref. 43 T72  
Thèse - École Nationale Vétérinaire d'Alfort.
- 44990 TYLER, W. J., and HYATT, G., JR. The approved sire program; a cornerstone for breed improvement. *Ayrshire Digest* 37:101,183-184,195-196. Mar.15,1951. 43.8 Ay7
- 44991 VACUNOS de carne; su crfa; raza Hereford. *Rev. Ganad. [Habana]* 11(4):58-64. (To be cont.) Apr. 1951. 49 R321
- 44992 VALERANI, L. Some observations on the substitution crossing of the Holstein Friesian and Brown Swiss breeds. (In Italian.) *Zootec. e Vet.* 6:114-117. Feb.1951. 41.8 Z7  
English summary.  
Effect on milk production.
- 44993 WEETH, H. J., and HERMAN, H. A. Comparative efficiency of intracervical and intrauterine methods of insemination in dairy cattle. *J. Dairy Sci.* 34:195-198. Ref. Mar.1951. 44.8 J822
- 44994 YOUNG, B. Points to consider when buying a herd bull. *Mo. Col. Farmer* 43(5):16,18. Feb.1951. 6 M691
- 44995 ZANON, V. Sterility in cattle. (In Ita. an.) *Almanacco Agr.* (1951)62:181-183. 1950. 16 AL6
- 44996 ZIMMER, F. Warum hauptkörungen als sam-melkörungen? *Bad. Landwirt. Wchnbl.* 118:116. Feb.24, 1951. 18 B142
- 44997 ZWAGERMAN, C. The cooperative artificial insemination station in Zeeland. (In Dutch.) *Stamboeker* 33:15. Feb.15,1951. 43.8 V58

#### Feeds and Feeding

- 44998 ALVAREZ GONZÁLEZ, M. Cómo alimentar una vaca de leche. I-II. B. de Divulg. Ganad. [Valladolid] 7:287-294,421-428. Sept.-Dec.1950. 49.9 Sp12
- 44999 ANDERSON, E. E. Dairy feeding economy important to profitable production of milk. *N. Mex. Stockman* 16:52-53. Jan.1951. 49 N462
- 45000 BAKER, F. S., JR. Citrus molasses in a steer fattening ration. *Livestock Wk.* 5(16):12-13,54,57. Feb.22,1951. 49 L753
- 45001 BARTLETT, S., and others. The nutritive value of conophor cake-meal for young dairy stock and fattening pigs. *Empire J. Expt. Agr.* 19(73):51-54. Jan.1951. 10 Em7  
E. S. Baxter, R. Braude, and K. G. Mitchell, joint authors.
- 45002 BARUCHELLI, A. Notes on the feeding and proper weaning of calves. (In Italian.) *Almanacco Agr.* (1951)62:75-78. 1950. 16 AL6
- 45003 BATTLES, O. V. Good pastures are necessary to the most profitable production of live stock. *Aberdeen-Angus J.* 32(8):57,102,104. Mar.1951. 43.8 Ab3
- 45004 BILLINGTON, T. F. Fodder beet, silage and lucerne, *Farmer & Stock-Breeder* 65(3204):100-101. Mar.20/21,1951. 10 F228  
Feeding and care of a Jersey herd.
- 45005 BREIMYER, H. F. Determining cattle feeding margins. *Feed Bag* 27(3):49-50. Mar.1951. 389.78 F32
- 45006 BURLESON, R. E., and LEIGHTON, R. E. Silage for the dairy herd. *Tex. Agr. Col. Ext. B.* 186,10 p. Jan.1951. 275.29 T312
- 45007 CAMBRIDGE UNIVERSITY. DEPT. OF AGRICULTURE. FARM ECONOMICS BR. Winter feeding in the dairy herd. Cambridge. U. Dept. Agr. Farm Econ. Br. *Farmers' B.* 12,16 p. Dec.1950. 281.9 C14F
- 45008 COBB, W. T. Feeding cattle for market. *La. Agr. Col. Ext., Ext. P.* 1072,12 p. Sept.1950. 275.29 L93Ep
- 45009 COX, R. F., and SMITH, E. F. Livestock management plans adapted to Kansas conditions. *Kans. Farm Bur. News* 4(5):10. Mar.1951. 275.293 K132  
Beef cattle feeding.
- 45010 CRANDALL, W. T. Give the cows a chance. *Dairymen's League News* 35(8):6,8. Apr.17,1951. 44.8 D1432  
Feeding.
- 45011 DIJKSTRA, N. D. The influence of fat in the ration of dairy cows. (In Dutch.) *Landbk. Tijdschr.* 63:95-102. Feb.1951. 105.2 Or3  
English summary.
- 45012 EATON, H. D., and others. A comparison of U.S. No. 2 field-cured field-baled alfalfa hay with artificially dried and ground and pelleted alfalfa hays as a source of carotene and roughage for Holstein calves. *J. Dairy Sci.* 34:124-135. Ref. Feb.1951. 44.8 J822  
C. A. Carpenter, R. J. Caverno, R. E. Johnson, F. L. Elliott, and L. A. Moore, joint authors.
- 45013 ELAM, F. L. Feed—it's money in your pocket when you market grain and forage through your cattle. *West. Livestock J.* 29(22):36-37,105. Mar.15,1951. 6 F2278
- 45014 ENGLERTH, G. Watch that feed scoop. *Jersey B.* 70:304,344,346. Mar.10,1951. 43.8 J48
- 45015 GRAF, G. C. The bovine rumen and nutrition. (Abs.) *Feedstuffs* 23(14):58,60-61. Apr.7,1951. 286.81 F322
- 45016 HELLBERG, A. Feeding and health of dairy cows. (In Swedish.) *Mjölpropagandan* 28:14-15. Jan. 1951. 44.8 M692
- 45017 HOLMES, W. Here's a year's record of a famous herd fed only on grass. *Dairy Farmer* 24(1):21-23. Jan.1951. 44.8 D1414



- 45018 HOMEWOOD, R. A. Heifers react well to kale as winter grazing. *Farmer & Stock-Breeder* 65(3204):98-99. Mar.20/21,1951. 10 F228
- 45019 HOMEWOOD, R. A. This is the cheapest winter feed I know. *Dairy Farmer* 24(4):19. Apr.1951. 44.8 D1414
- Kale.
- 45020 HOWARD, R. M. Beet tops in ration mean low-cost gains. *Natl. Live Stock Prod.* 29(7):14,23. Apr.1951. 280.38 N21
- For cattle.
- 45021 HUSAIN, M. A., and ALI, M. A. Oil seed cakes as cattle feed. *Agr. Pakistan* 1:203-208. 1950. 22 Ag832
- 45022 JARL, F. Smältbarhetsförsök med nötkreatur. II. Digestibility experiments with various feeds for dairy cattle. II. Sweden. *Lantbrhögsk. Husdjursförsöksanst.* Meddel. 44,60 p. Ref. 1950. 104 Up62
- English summary.
- 45023 KÄGI, F. Die geschmackliche beeinflussung der milch durch verschiedene futtermittel. (Extr.) *Schweiz. Zentbl. f. Milchwirt.* 40:36. Feb.16,1951. 44.8 Sch93
- 45024 KESLER, E. M., and KNOTT, C. B. B-vitamin studies in calves. I. The relation between age of calf and levels of thiamine, riboflavin and nicotinic acid found in the digestive tract. *J. Dairy Sci.* 34:145-148. Ref. Feb. 1951. 44.8 J822
- 45025 LOFGREEN, G. P., KLEIBER, M., and SMITH, A. H. The digestion and absorption of P<sup>32</sup> labeled casein by the young calf. *J. Nutr.* 43:401-412. Ref. Mar.10, 1951. 389.8 J82
- 45026 MARKOVIC, P. The rearing of calves by feeding them on sour milk. (In Czech.) *Českoslov. Akad. Zemeděl. Sborn.* 23:168-175. 1950. 19.5 C332C
- English summary.
- 45027 MIKOLASCH, W. Praktische erfahrungen mit dem futterzusatzmittel Suprosal bei kühen und schweinen. *Wien. Tierärztl. Monatsschr.* 38:111-117. Feb.1951. 41.8 T345
- With comment by K. Diernhofer.
- 45028 MILLIMAN, T. E. Milk potentials of roughage. *G. L. F. Week. Serv. Sched.* 15(37):2. Mar.19,1951. 280.28 G113W
- 45029 MONTGOMERY, G. A. New, cheaper way to raise calves; Ohio method saves milk by fitting young animals to thrive on hay and grain when they are 7 to 9 weeks old. *Capper's Farmer* 62(5):16,43. May 1951. 6 M693
- Cud inoculations.
- 45030 MORITZ, F. L. New system means more beef for less cost; finish quality Ozark calves by deferred feeding. *Mo. Farmer* 43(3):3,18,23. Mar.1951. 6 M696
- Utilization of improved grass-legume pastures.
- 45031 MYATT, A. C. Four-calves-on-a-cow is best rearing method. *Dairy Farmer* 24(3):17. Mar.1951. 44.8 D1414
- 45032 NAEGELY, F. K. Milk potentials of roughage. *G. L. F. Week. Serv. Sched.* 15(35):1. Mar.5,1951. 280.28 G113W
- 45033 NEW YORK STATE COLLEGE OF AGRICULTURE AND HOME ECONOMICS. DEPT. OF AGRONOMY. The Cornell grazing calendar. N. Y. Agr. Col. Dept. Agron. Mimeo. 898a,4 p. Aug.2,1950. 276 C813
- Dairy cattle.
- Supersedes Mimeo. 898.
- 45034 NEWELL, P. F. Beef making—the pasture way. *Livestock Wk.* 5(16):8-9,56,58-63,65. Feb.22,1951. 49 L753
- 45035 RIGGS, J. K., MILLER, J. C., and GEE, A. J. Self-feeding mixtures of salt and cottonseed meal to range cattle. *Coastal Cattleman* 16(11):16-17. Jan.1951. 43.8 C63
- 45036 RUPP, E. Big surprise with beef; deferred-feeding, dairy heifer replacement programs make amazing returns even in one year. *Kans. Farmer* 88(7):20-21. Apr.7,1951. 6 K13
- 45037 SAVAGE, D. A., and M'ILVAIN, E. H. Self-feeding of salt-[cottonseed] meal mixtures to range cattle. *Nowest. Okla. Cattleman* 6(2):6,17. Mar.1951. 43.8 N812
- 45038 SCHWALLER, A. Entlastung der milchwirtschaft durch ausdehnung der qualitätsmast. *Schweiz. Zentbl. f. Milchwirt.* 40:35. Feb.16,1951. 44.8 Sch93
- Cattle feeding.
- 45039 SCHWIZER, M. Viehhaltung auf landes- und betriebseigener futterbasis mit besonderer berücksichtigung der gesundheit und fruchtbarkeit des rindviehbestandes und der qualität der viehwirtschaftlichen erzeugnisse. *Schweiz. Zentbl. f. Milchwirt.* 40:47-50. Mar.2,1951. 44.8 Sch93
- Includes pasture management.
- 45040 SERVISS, G. H. Green grass for milk insurance. *G. L. F. Week. Serv. Sched.* 15(38):2. Mar.26,1951. 280.28 G113W
- 45041 SERVISS, G. H. Production on good pastures. *G. L. F. Week. Serv. Sched.* 15(36):1. Mar.12,1951. 280.28 G113W
- Milk production.
- 45042 SHARAR, S. Fattening cattle before slaughtering. (In Hebrew.) *Hassadeh* 31:177-178. Jan.1951. 26 H27
- 45043 SHVABE, A. K. On factors which effect changes in milk composition. (In Russian.) *Vsesoyuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 16(1):39-45. 1951. 20 Ak1
- Feeding and care chiefly.
- 45044 SINGLETON, D. E. We haven't time to steam-up properly but—my system is simple—and it pays. *Dairy Farmer* 24(4):16. Apr.1951. 44.8 D1414
- Feeding of concentrates before calving and pre-milking.
- 45045 SPENCER, F. H. Dry grass is newest dairy food. *Milk Bd. J.* 1:668,670. Dec.15,1950. 44.8 M5934
- 45046 SVANBERG, O., and HOFSTEN, C. G. VON. On administration of minor elements to dairy cows. Sweden. *Lantbrhögsk. Ann.* 17:101-106. 1950. 104 Up6
- 45047 THOMAS, J. W., and others. Feeding DDT and alfalfa sprayed with DDT to calves. *J. Dairy Sci.* 34:203-208. Mar.1951. 44.8 J822
- P. E. Hubanks, R. H. Carter, and L. A. Moore, joint authors.
- 45048 TIPPIT, O. J., JONES, J. H., and JOHNSTON, J. R. Summary of the 1950 grazing and feeding work at the Blackland Experiment Station. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1333,3 p. Mar.5,1951. 100 T31P
- Feeding steers.
- 45049 TULLY, W. C. Dairy feeding must be improved. *Amer. Feed & Grain Dealer* 35(2):30,47-48. Mar.1951. 298.8 C83
- 45050 TURK, K. L. Distillers' grain solubles in calf starters. *Dairymen's League News* 35(7):6,15. Apr.3, 1951. 44.8 D1432
- 45051 TURNER, C. W. Feeding thyroprotein to dairy cattle. *Feedstuffs* 23(11):26-30,32. Mar.17,1951. 286.81 F322
- 45052 VAN WYK, H. P. D. Production of beef in grain areas. II. Utilisation of available feeds. *Farming So. Africa* 26:37-42. Feb.1951. 24 So842
- 45053 WALLACE, H. D., LOOSLI, J. K., and TURK, K. L. Substitutes for fluid milk in feeding dairy calves. *J. Dairy Sci.* 34:256-264. Ref. Mar.1951. 44.8 J822
- 45054 WALLER, P. Cows must have minerals. *Milk Bd. J.* 1:676,678. Dec.15,1950. 44.8 M5934
- 45055 WICKENDEN, H. Sugar beet and milk production. *Home Farmer* 18(1):8-9,29. Jan.1951. 280.344 H75
- 45056 WISE, G. H. The newborn calf and its birth-right. (Abs.) *Feedstuffs* 23(15):54-55. Apr.14,1951. 286.81 F322
- Feeding.

#### Veterinary Medicine

- 45057 ALICE, F. J. On a small outbreak of bovine pasteurellosis and its treatment with sulfamerazine. (In Portuguese.) *Bahia. Sec. da Agr., Indus. e Com. Serv. de Divul. B.* 46(6):106-110. Mar.1950. 9.2 B14
- 45058 ASCOLI, A. Prophylaxie vaccinale antituberculeuse chez l'homme et les bovins. *Milano, Giornale Italiano della Tubercolosi*, 1950? 82 p. Ref. 448.2 As2P
- 45059 BAGGERUD, H. The results attained in combating brucellosis in cattle in Norway. *Brit. Vet. J.* 107:103-106. Mar.1951. 41.8 V643
- 45060 BAILEY, J. W. When cows abort. *Hoard's Dairyman* 96:242. Mar.10,1951. 44.8 H65
- 45061 BARDOULAT, M., MERMET, P., and CALVET, H. Diagnostic et pronostic des réticulites et réticulopéritonites par corps étranger. *Rev. de Méd. Vét. [Toulouse]* 101:463-474. (To be cont.) Oct.1950. 41.8 R32
- Cattle.
- 45062 BARKER, C. A. V. A case of complete torsion of the uterus in a cow. *Canad. J. Compar. Med.* 15:21-23. Jan.1951. 41.8 C162
- 45063 BARTLETT, D. E. What can be done about bovine venereal trichomoniasis today? *Brown Swiss B.* 29(10):11-12,70. Apr.1951. 43.8 B81
- 45064 BECK, W. Wie steht es mit der tuberkulosebekämpfung? *Milcherzeuger* 9:3-4. Jan.1951. 43.8 M592



- 45065 BERG, W. V. D. Endocarditis in the cow due to *Corynebacterium pyogenes*. (In Dutch.) Tijdschr. v. Diergeneesk. 76:67-78. Ref. Jan.15,1951. 41.8 T431
- 45066 BHONSLE, M. G. Unusual incidence of haemorrhagic septicaemia. Indian Vet. J. 27:285-286. Jan.1951. 41.8 In2
- Buffalo calves.
- 45067 BOGORODITSKIĬ, A. V. Importance of age in Haemosporidia diseases. (In Russian.) Veterinariĭa 27 (11):24-25. Nov.1950. 41.8 V6426
- Chiefly on theileriasis in cattle.
- 45068 BRODY, S., and others. Reactions of European and Indian cattle to wide temperature changes. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):377. Mar.1951. 442.9 F31P
- A. C. Ragsdale, H. H. Kibler, C. R. Blincoe, H. J. Thompson, and D. M. Worstell, joint authors.
- 45069 BROTHERSTON, J. D. The use of lapinised virus vaccine to suppress active rinderpest in susceptible grade cattle. Vet. Rec. 63:235-238. Mar.31,1951. 41.8 V641
- 45070 BRYAN, C. S. Problems created for the dairy industry by antibiotic mastitis treatments. Mich. Agr. Expt. Sta. Q. B. 33:223-228. Feb.1951. 100 M588
- Penicillin levels of herd milk and effect of antibiotics on the manufacture of fermented dairy products.
- 45071 CHODKOWSKI, A. Tuberculosis of the udder in cattle. (In Polish.) Med. Weter. 6:721-724. Dec.1950. 41.8 M463
- 45072 CIEŚLA, E. Studies on the morphology of *Sarcocystis blanchardi*. (In Polish.) Med. Weter. 6:671-673. Ref. Nov.1950. 41.8 M463
- English summary.
- In cattle.
- 45073 CLAISSE, P. Traitement des métrites, vulvites et vaginites par l'aluminium. Paris, Foulon, 1950 48 p. Ref. 41.2 C52
- Chiefly in cattle.
- Thèse - École Nationale Vétérinaire d'Alfort.
- 45074 CLARK, C. F. Michigan's Bang's program and the use of *Brucella M. vaccine*. Kans. State Bd. Agr. Rpt. 69(296):69-74. Apr.1950. 2 K13Re
- For cattle.
- 45075 COBB, L. O. Farmer reviews cattle losses. Dakota Farmer 71(7):20,30. Apr.7,1951. 6 D14
- Diseases and injuries.
- 45076 CZARNOWSKI, A. *Vibrio fetus* as the aetiological agent in abortions in cattle. (In Polish.) Med. Weter. 6:520-521. Sept.1950. 41.8 M463
- 45077 DAVIDS, R. C. We've got to whip brucellosis. Farm J. 75(5):28-29,150-155. May 1951. 6 F2212
- Brucellosis in dairy cattle.
- 45078 DAVIS, T. C. Pyelonephritis in a cow. Ga. Vet. 3:13. Jan./Feb.1951. 41.8 G29
- 45079 DELAHANTY, D. D. Bovine fetal synarthrophys. Amer. Vet. Med. Assoc. J. 118:252. Apr.1951. 41.8 Am3
- 45080 DEMNITZ, A., and SCHNEIDER, B. Spielt beim auftreten der wild- und rinderseuche ein filtrierbares virus eine rolle? Monatsh. f. Prakt. Tierheilk. (n.s.) 2:268-273. 1950. 41.8 M74
- 45081 DEOM, J. Traitement expérimental des trypanosomiasis bovines à *T. congolense*, *T. vivax* et *T. theileri* par le phénanthridinium S. 1553 au Congo Belge. Ann. de Méd. Vét. 95:36-44. Ref. Jan.1951. 41.8 An78
- 45082 DODIER. Principes de lutte contre la theileriose bovine. Almanach Agr. Tunisie 1951:271-273. 24 AL6
- 45083 DUNLOP, A. A. Type differences and blood antigens in a Guernsey herd. J. Dairy Sci. 34:154-166. Ref. Feb.1951. 44.8 J822
- 45084 FAVA, A., and ZANACCA, G. Rare cystic form of cardiac actinomycosis in a bovine. (In Italian.) Zooprofilassi 6:55-60,62-65. Ref. Feb.1951. 41.8 Z72
- French and German summaries.
- 45085 FLÜCKIGER, G. The vaccination against bovine tuberculosis. (In Italian.) Zooprofilassi 6:44-48. Jan.1951. 41.8 Z72
- 45086 FOREHAND, E., and KOGER, M. Cancer eye takes heavy toll in cattle. N. Mex. Stockman 16:44,58. Jan.1951. 49 N462
- 45087 GÖTZE, R. Über die sicherheit und sorgfalt bei der tuberkulinisierung der rinder. Deut. Tierärztl. Wchnschr. 58:33-36. Feb.1,1951. 41.8 D482
- 45088 GRASHUIS, J. Grass tetany in cattle. (In Dutch.) Boer en Tuinder 5(210):15. Jan.27,1951. 12 B632
- 45089 GREEN, T. G. A report of the six-state experiment with *Brucella "M"* vaccine. Jersey B. 70:302,348-352. Mar.10,1951. 43.8 J48
- 45090 GUYAUX, R. Gibier et peste bovine; cas de transmission de la peste bovine du buffle au bétail bovin. Belgium. Min. des Colon. B. Agr. du Congo Belge 42:123-129. Mar.1951. 24 K83
- 45091 GUYAUX, R. Trypanosomiasis latente et vaccination antipestique au moyen de goat virus. Belgium. Min. des Colon. B. Agr. du Congo Belge 42:130-134. Mar. 1951. 24 K83
- Cattle.
- 45092 HAMMOND, J. Artificial pregnancy in cattle is a possibility but not yet a practical proposition. New Zeal. Dairy Exporter 26(8):36-37. Feb.1951. 44.8 N484
- Transplantation of ova.
- 45093 HARRISON, E. S. No legs—no cow; care of the feet will pay off in longer productive life—importance of this factor in breeding programs. Holstein-Friesian World 48:599-602. Mar.17,1951. 43.8 H742
- 45094 HASKELL, W. H. Mastitis in the dairy cow. Milk Prod. [Houston] 15(10):22. (To be cont.) Oct.1950. 44.8 M5993
- 45095 HAY, J. Distomiasis in suckling calves. (In Polish.) Med. Weter. 6:534. Sept.1950. 41.8 M463
- 45096 HEIDRICH, H. J. Betrachtungen zur folioestrol-wirkung unter berücksichtigung der klinischen erfahrungen. Monatsh. f. Vetmed. 6:96-100. Ref. Mar.1,1951. 41.8 M742
- Cattle.
- 45097 HEINEN, H. Ein beitrag zur intratrachealen Terosot-therapie. Tierärztl. Umschau 6:104-105. Mar. 1951. 41.8 T445
- Treatment of two cows.
- 45098 HENDERSON, J. A. Health and propagation advances. Agr. Inst. Rev. 6(2):26-28. Mar.1951. 7 Ag8
- Dairy cattle.
- 45099 HERRICK, J. B. "Bugs" help sick cows; scientists treat ailing cattle by giving them bacteria from well cow's rumen. Wallaces' Farmer & Iowa Homestead 76(7):8. Apr.7,1951. 6 W15
- 45100 HILL, R. Premilking. Home Farmer 18(2):14-15. Feb.1951. 280.344 H75
- Includes effect on the calf.
- 45101 HOFFMANN, W. steht die rindertuberkulose-bekämpfung im Allgäu? Allgäuer Bauernbl. 19:98-99. Feb.22,1951. 18 AL53
- 45102 JACKS, J. Anaplasmosis—research continues in 25-year fight against menace to cattle population. West. Livestock J. 29(16):143-144,147-148. Feb.15,1951. 6 F2278
- 45103 JANISZEWSKI, J. Notes on the treatment of mastitis in cattle. (In Polish.) Med. Weter. 6:526-529. Sept.1950. 41.8 M463
- 45104 JAŚKOWSKI, L. Notes on the treatment of some cases of trichomoniasis. (In Polish.) Med. Weter. 6:725-726. Dec.1950. 41.8 M463
- English summary.
- Cattle.
- 45105 JAŚKOWSKI, L. Studies on trichomoniasis in bulls. (In Polish.) Med. Weter. 6:579-584. Oct.1950. 41.8 M463
- English summary.
- 45106 JENNINGS, A. R., and SUMNER, G. R. Cortical cerebellar disease in an Ayrshire calf. Vet. Rec. 63:60-61. Jan.27,1951. 41.8 V641
- 45107 JONES, R. P. International control of disease. Brit. Vet. J. 107:6-15. Jan.1951. 41.8 V643
- Proposal for international rinderpest control organization.
- 45108 KERN, H. G. Sind komplikationen nach der fremdkörperoperation beim rind häufig? Deut. Tierärztl. Wchnschr. 58:3-9. Jan.1,1951. 41.8 D482
- 45109 KINGSTON, D. E. Our experience with strain M vaccination. Holstein-Friesian World 48:758,814-815. Apr.7,1951. 43.8 H742
- 45110 KULKARNI, H. V. An unusual outbreak of haemorrhagic septicaemia in cattle and buffaloes. Indian Vet. J. 27:283-285. Jan.1951. 41.8 In2
- 45111 LAHIRI, B. M. Penicillin in pericarditis in a bullock. Indian Vet. J. 27:286-288. Jan.1951. 41.8 In2
- 45112 LAUTERBACH. Tuberkulose-bekämpfung im Kreise Harburg-Land. Deut. Tierärztl. Wchnschr. 58:39-41. Feb.1,1951. 41.8 D482
- Cattle.
- 45113 LEBEDEV, P. T. Practices for getting rid of paratyphoid in calves. (In Russian.) Veterinariĭa 27(11):15-18. Nov.1950. 41.8 V6426



- 45163** TRENDTEL. Die rindertuberkulose in ihrer beziehung zum menschen. *Molk.-Ztg.* 5:193-194. Feb.22, 1951. 44.8 M735
- 45164** TRENKLE, H. Halt ihre kuh die milch auf? *Bauern Ztg.* 4(8):5. Feb.23,1951. 18 B324
- 45165** TROOP, C. R. Footrot (foul foot) of dairy cattle. *Austral. Dairy Rev.* 19(2):8. Feb.1,1951. 44.8 Au73
- 45166** TURNER, F. N. Cure your own cattle. *Bridge-water, Somerset, Eng., Farmer P., Goosegreen Farm, 1950.* 60 p. 41 T852
- 45167** VEILLEUX, J. M. La brucellose; conséquences; prévention; contrôle. *Digeste de l'Eleveur* 5(7):7-9. Mar.1951. 49 D56
- 45168** VENGE, O. The influence of the mother on the size of the progeny. (In Danish.) *Tolvmandsbladet* 23:20-22. Jan.1951. 11 T58
- 45169** WATTS, P. S. Studies on vitamins A and C in bovines. Vitamin C in the liver, kidney and plasma of cows, calves and foetuses. *J. Compar. Path. & Ther.* 60:283-293. Ref. Oct.1950. 41.8 J82
- 45170** WHEAT, J. D. Diseases of the penis and prepuce of the bull requiring surgery. *Amer. Vet. Med. Assoc. J.* 118:295-298. May 1951. 41.8 Am3
- 45171** WIKERHAUSER, T. Contribution à l'étude des leptospiroses bovines en Suisse. *Schweiz. Z. f. Allg. Path. u. Bakt.* 14:93-115. Ref. 1951. 44.8 Sch9
- 45172** WILLE, R. Über absamungsanomalien bei bullen. *Deut. Tierärztl. Wchnschr.* 58:22-23. Jan.15, 1951. 41.8 D482
- 45173** WILSON, C. C. Factors limiting milk production. *Guernsey Breeders' J.* [Peterborough] 81:1032, 1052-1053. Apr.4,1951. 43.8 G93
- 45174** WOOLDRIDGE, W. R. Anthrax. *Guernsey Breeders' J.* [London] (n.s.):5:38,46. Spring 1951. 43.8 G932
- 45175** WYŻYNSKI, J. Epizootic appearance of clouding keratitis in cattle. (In Polish.) *Med. Weter.* 6:600-601. Oct.1950. 41.8 M463
- 45176** YOUNG, G. B. A case of tibial hemimelia in cattle. *Brit. Vet. J.* 107:23-28. Jan.1951. 41.8 V643
- 45177** ZAITSEV, I. G. My method of treating ringworm [in cattle]. (In Russian.) *Veterinaria* 27(11):19. Nov.1950. 41.8 V6426
- 45178** ZAVAGLI, V. Prophylaxis of bovine tuberculosis. (In Italian.) *Zooprofilassi* 6:40-43. Jan.1951. 41.8 Z72
- 45179** ANDRADE, H. Crianza del ganado lechero en Chile. *Campeño [Santiago]* 83:43,45. Jan.1951. 9.3 So12
- 45180** ARIZONA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Arizona dairy herd improvement program; annual summary, dairy herd improvement associations, October 1, 1949-September 30, 1950, by W. R. Van Sant. Tucson, 1950. 9 p. 275.29 Ar42Ad
- 45181** BONSMMA, J. C. Increased beef production. *Farming So. Africa* 26:58-63,68. Feb.1951. 24 So842
- 45182** BROOKES, A. J., and VINCETT, L. S. Beef production experiment at Cambridge; interim report. *Roy. Agr. Soc. Eng. J.* 111:99-118. 1950. 10 R81
- 45183** BUTTROSE, A. K. Raising beef cattle on Kangaroo Island. *So. Austral. Dept. Agr. J.* 54:202-203. Nov. 1950. 23 So84
- 45184** CASE, L. I. Feeding and fitting for show or sale. *Breeder-Stockman* 12(11):39-44. Apr.1951. 49 V81
- 45185** CHAUSSONNIERE, P. Le concours de conformation et le classement de synthèse. *J. de la France Agr.* 7:1413,1417,1429,1441. Mar.9/15-Mar.23/29,1951. 14 J829
- 45186** COSSETTE, M. Un moyen d'augmenter vos payes de lait. *B. des Agr.* 47(3):24-26. Mar.1951. 7 B872
- 45187** DENJEAN, Y. L'élevage bovin en Tunisie. *Colon Franç. de Tunisie (ser.7)* 60(2132):1,3;(2136):3;(2138):3;(2139):3;(2141):3;(2142):3;(2143):3;(2144):3;(2145):3;(2146):3;(2147):3;(2150):3. (Cont.) Feb.18,Mar.18,Apr.1-8,22-June 3,24,1950. 24 C712
- 45188** DOWNHAM, K. D. The care and management of young dairy cattle. *Guernsey Breeders' J.* [London] (n.s.):5:34,36. Spring 1951. 43.8 G932
- 45189** EDWARDS, J. British dairy cows are giving more milk today than ever before. *New Zeal. Dairy Exporter* 26(8):16-18. Feb.1951. 44.8 N484
- 45190** FAZACKERLEY, R. L. Good calves: good cows. *Gt. Brit. Min. Agr. Agriculture* 57:560-562. Mar. 1951. 10 G79J
- 45191** FOOT, A. S. How fast does a cow milk? *Farmer & Stock-Breeder* 65(3206):102-103;(3207):100-101. Apr.3/4-10/11,1951. 10 F228
- 45192** GEDDES, H. J. Marshalling of cows an important factor in high speed milking. *Austral. Dairy Rev.* 19(2):9. Feb.1,1951. 44.8 Au73
- 45193** HARTUNG, A. M. Old drovers that went up the long trail. *Tex. Livestock J.* 10(2):9,32,36,40. Feb.15 1951. 49 T29
- 45194** HENRIQUES, E. Beauty care in the dairy barn. (In Danish.) *Dansk Landbr.* 70:114-115. Mar.8,1951. 280.28 V91
- 45195** HOGG, W. Some impressions of Australia; visiting Aberdeen-Angus judge sums up on various things he saw here. *Austral. Farm & Home* 60(2):48,51-52. Feb. 1951. 23 Au7
- 45196** HUTCHINSON, J. A study in cattle environment. *Farmers Wk.* [London] 34(15):59,61. Apr.13,1951. 10 F2226
- 45197** INDERMÜHLE, K. Rindviehhaltung. Zollikofen, Oekonomische und Gemeinnützige Gesellschaft des Kantons Bern, 1950. 31 p. 43 In23R
- 45198** JONES, R. L. Quality stock from Wales. *Gt. Brit. Min. Agr. Agriculture* 57:556-559. Mar.1951. 10 G79J
- 45199** KÖPPE, Die wichtigsten merkmale zur beurteilung von milchkühen. *Neue Mitt. f. die Landwirt.* 6:36-37. Jan.20,1951. 18 N39
- 45200** LUSH, J. L. Out on first record? *Guernsey Breeders' J.* [London] (n.s.):5:26-27. Spring 1951. 43.8 G932
- 45201** MACKINTOSH, J. Fat production—pounds or percentages. *Guernsey Breeders' J.* [London] (n.s.):5:24. Spring 1951. 43.8 G932
- 45202** MARTIMO, E. Towards top results and championship. (In Swedish.) *Mjölpropagandan* 28:34-35. Feb. 1951. 44.8 M692
- 45203** MATZEN, W. Steigerung der lebensleistung der milchkühe. *Neue Mitt. f. die Landwirt.* 6:170. Mar.17, 1951. 18 N39
- 45204** NEWELL, P. F. Beef cattle balance South's farming. *Shorthorn World* 36(2):7,31-34. Mar.25,1951. 43.8 Sh8
- 45205** NICHOLS, M. B. Crianza de vacunas lecheras en la Sierra. Ecuador. Segunda Zona. Cdm. de Agr. B. 4(19):22-28. Oct./Dec.1950. 9.5 Ec95B
- 45206** PLANK, G. M. V. D., and MERKENS, J. Large of small cows? (In Dutch.) *Tijdschr. v. Diergeneesk.* 76:190-191. Mar.1,1951. 41.8 T431
- 45207** ROUSEK, E. J. Next time, show a winner; showing a steer is no easy job, and winning a blue ribbon is more difficult. Here's how it's done by the students of Fresno State College. *West. Livestock J.* 29(22):38,90-91,93-94. Mar.15,1951. 6 F2278
- 45208** SANDERS, H. G. Off the record. *Farmers Wk.* [London] 34(13):51. Mar.30,1951. 10 F2226
- 45209** SHIN NIPPON CHIKUSAN KYOKAI, Noka ni kotaeru chikusan no kotsu; nyugyu, buta-hen [The secret of live-stock for farmers; the milk cow and pig section]. Tokyo, Yotoku-sha, 1950. 166 p. 40 Sh62
- 45210** SIRRI, A. Pratica della mungitura e trattamento della vacca [Milking practice and care of the cow]. Bologna, Edizioni Agricole, 1950. 128 p. (Manuali per l'Istruzione ai Contadini. N.1.) 44 S17
- 45211** STEWART, D. M. Stocking the hills with cattle. *Farming News & No. Brit. Agr.* 103:34,100. Jan.1,1951. 10 N82
- 45212** SVENSSON, K. G. Machine milking problems. (In Swedish.) *Mjölpropagandan* 28:40-41. Feb.1951. 44.8 M692

# Miscellaneous



- 45114 LEWIS, E. A. Conditions affecting the East Coast fever parasite in ticks and in cattle. *East African Agr. J.* 16:65-77. Ref. Oct.1950. 24 Ea74  
The relationship of *Theileria parva* and its tick host, *Rhipicephalus appendiculatus*.
- 45115 LIENERT, E. Forschungen über tympanie. *Food & Agr. Organ. United Nations. Austrian Natl. Com. Mitt.* 2:51-52. 1950. 281.9 F732
- 45116 LOFTHOUSE, F. *Vibrio foetus* infection in a dairy herd. *Vet. Rec.* 63:125-127. Feb.17,1951. 41.8 V641  
Includes discussion.
- 45117 MCCANN, L. P. Size; there may be more to consider in it than immediately meets the eye. *Amer. Hereford J.* 41(23):34. Apr.1,1951. 43.8 Am32
- 45118 MCCLYMONT, G. L. Identification of the volatile fatty acid in the peripheral blood and rumen of cattle and the blood of other species. *Austral. J. Agr. Res.* 2:92-103. Ref. Jan.1951. 23 Au783
- 45119 MACEDO, J. N. Digestion of food by cattle. (In Portuguese.) *Selec. Agr.* 6(57):45-46. Jan.1951. 9.2 Se4
- 45120 MCLAUCHLAN, D. Bracken poisoning. *Vet. Rec.* 63:241-242. Mar.31,1951. 41.8 V641  
Twelve heifers.
- 45121 MANNING, H. L., and WILLIAMS, E. A note on the estimation of liveweight of cattle in Uganda. *East African Agr. J.* 16:94-96. Oct.1950. 24 Ea74
- 45122 MARTIGNOLLES, J., and ADJOVI, P. Traitement au bromure de dimidium de bovins atteints de trypanosomiase dans le Fouta-Djalon. *French West Africa. Insp. Gén. de l'Élevage. B. des Serv. de l'Élevage et des Indus. Anim.* 3(2/3):25-27. Apr./Sept.1950. 41.9 F88B
- 45123 MENDEZ PLASENCIA, V., CALAS BERTOT, W., and CASTELLANOS GONZÁLEZ, R. Enteritis paratuberculosa (enfermedad de Johne). *Rev. Ganad. [Habana]* 11(4):18-20,52-56. Apr.1951. 49 R321  
Cattle.
- 45124 MERKT, G. Prüfung verschiedener tuberkuline auf ihre diagnostische sicherheit am rind. *Deut. Tierärztl. Wchnschr.* 58:36-39. Feb.1,1951. 41.8 D482
- 45125 MOODY, E. G., and others. Properties of the colostrum of the dairy cow. VI. Creaming and rate of flow. *J. Dairy Sci.* 34:106-115. Ref. Feb.1951. 44.8 J822  
G. H. Wise, D. B. Parrish, and F. W. Atkeson, joint authors.
- 45126 NAGEOTTE, J. C. Less udder trouble; pre-milking gives dairyman jump on mastitis, a chance to clear it up before cow freshens. Bloody, lumpy secretions in the udder before calving are trouble signs. *Successful Farming* 49(4):47,160-161. Apr.1951. 6 Su12
- 45127 NICOLAS, F. Vitamine C et reproduction. *Paris, Foulon, 1950.* 70 p. Ref. 386.2 N54  
Thèse - École Nationale Vétérinaire d'Alfort.  
Cattle.
- 45128 NOVAZZI, G. Contribution on the study of the diffusion factor (mesomucinase, hyaluronidase) in domestic animals. I. (In Italian.) *Zootec. e Vet.* 5:1005-1014. Dec.1950. 41.8 Z7  
English summary.  
Study on the milk, serum, urine, etc. of cattle.
- 45129 OHE, V. D. Beitrag zur technik der gewinnung von bronchialsekret beim rinde zum nachweise von tuberkelbakterien. *Deut. Tierärztl. Wchnschr.* 58:99-102. Apr.1,1951. 41.8 D482
- 45130 PEARSON, J. K. L. Further experiments in the use of penicillin in the prevention of *C. pyogenes* infection of the non-lactating bovine udder. *Vet. Rec.* 63:215-220. Mar.24,1951. 41.8 V641
- 45131 PÉRES, G., and PÉRES, G. Essais de B.C.G. diagnostic sur les bovidés. *Acad. Vét. de France. B.* 24:70-72. Jan.1951. 41.9 R24
- 45132 PEREZ AGUILAR, R. Castración de la vaca. *Campo [Guadalajara]* 19(4):11-12. Apr.1951. 8 G76
- 45133 PERMANNE, R. L. La laderie bovine au Kivu (moyens de lutte dans les élevages européens). *Cour. Agr.* 16(3):1. Jan.31,1951. 24 C83  
*Cysticercus bovis*.
- 45134 PETERSEN, W. E. The physiology and biochemistry of lactation. *Certif. Milk* 26(4):12-13. (Concl.) Apr.1951. 44.8 C33
- 45135 PIERCY, S. E. The treatment of East Coast fever with (A) phenamidine and (B) "quinacrine." *Vet. Rec.* 63:201-204. Mar.17,1951. 41.8 V641
- 45136 PORTE, E. Hormones gonadotropes d'origine sérique et stérilité de la vache. *Paris, Foulon, 1950.* 72 p. 43 P83  
Thèse - École Nationale Vétérinaire d'Alfort.
- 45137 POTYRA, T. A case of parturition of a teratoma in a cow. (In Polish.) *Med. Weter.* 6:533-534. Sept.1950. 41.8 M463
- 45138 QUARANTA, P. Extent of bovine distomatosis in the Province of Turin. (In Italian.) *Cron. Econ.* 95/96:8-14. Dec.15/30,1950. 280.8 C882
- 45139 RACKOW, H. G. Die antibiotika in der galt- und abortus-Bang-bekämpfung. *Monatsh. f. Prakt. Tierheilk. (n.s.)* 2:257-268. (To be cont.) 1950. 41.8 M74
- 45140 RAMAKRISHNAN, M. An outbreak of acute amphistomatias among cattle in Nellore District. *Indian Vet. J.* 27:267-272. Jan.1951. 41.8 In2
- 45141 ROGALSKI, L. On poisonings by phosphoric compounds in cattle. (In Polish.) *Med. Weter.* 6:735-736. Dec.1950. 41.8 M463
- 45142 ROSMALEN, W. C. VAN. Research on tuberculosis of cattle. II. (In Dutch.) *Drents Landtbl.* 32(5):5. Feb.3,1951. 12 D812  
Also in *Gelders Landtbl.* 14(5):5. Feb.3,1951. 12 G282
- 45143 ROWSON, L. E. Transplante de ovulos de vaca, fecundados. *Rev. Ganad. [Habana]* 11(4):26-31. Apr.1951. 49 R321
- 45144 ROY, H. N. Caesarian section in a cow. *Indian Vet. J.* 27:279-281. Jan.1951. 41.8 In2
- 45145 RUNGE, S., and CHWOJNOWSKI, A. A huge skinhorn in a cow. (In Polish.) *Med. Weter.* 6:521-523. Sept.1950. 41.8 M463  
English summary.  
Horny cutaneous tumor.
- 45146 SAHAI, L. Incidence of diseases in milch cattle and measures for their elimination. *United Prov. Vet. Mag.* 25:11-21. Apr./July 1950. 41.8 Un3
- 45147 SAITO, K. An outbreak of cattle influenza in Japan in the fall of 1949. *Amer. Vet. Med. Assoc. J.* 118:316-319. May 1951. 41.8 Am3
- 45148 SCHLANGE, E. S. Die bekämpfung der rinder-tuberkulose in Grossbritannien. *Neue Mitt. f. die Landwirt.* 6:71. Feb.3,1951. 18 N39
- 45149 SCHOUPPE, K. Zur behandlung der retentio secundinarum beim rinde. *Wien. Tierärztl. Monatsschr.* 38:109-111. Feb.1951. 41.8 T345  
With comment by F. Benesch.
- 45150 SCHULZ, N. E., and SEBOLT, H. C. Sequela of "clamping" bulls. *Vet. Med.* 46:202. May 1951. 41.8 M69  
Surgical removal of scrotum following improper castration procedure.
- 45151 SELL, J. Infectious inflammation of eyes in cattle. (In Polish.) *Med. Weter.* 6:734-735. Dec.1950. 41.8 M463
- 45152 SEN, M. R. Sarcosporidiosis in cattle in Bengal. *Indian Vet. J.* 27:261-264. Jan.1951. 41.8 In2
- 45153 SENZE, A. Oestrus as regards the "driving back" of cows. (In Polish.) *Med. Weter.* 6:665-666. Nov.1950. 41.8 M463
- 45154 SHASTRI, G. A. Contagious pleuropneumonias of cattle and goats and their treatment by homoeopathy. *United Prov. Vet. Mag.* 25:1-10. Ref. Apr./July 1950. 41.8 Un3
- 45155 SHAW, J. C., MOORE, L. A., and SYKES, J. F. The effect of raw soybeans on blood plasma carotene and vitamin A and liver vitamin A of calves. *J. Dairy Sci.* 34:176-180. Ref. Mar.1951. 44.8 J822
- 45156 SIEKA, M. Calcium and milk fever. (In Polish.) *Med. Weter.* 6:736. Dec.1950. 41.8 M463  
In cattle.
- 45157 SINGH, B. Cattle plague. *United Prov. Vet. Mag.* 25:24-25. Apr./July 1950. 41.8 Un3  
Rinderpest described in verse.
- 45158 SLAVIN, G. Q fever. *Roy. Sanit. Inst. J.* 71:102-103. Mar.1951. 44.9 R812  
Chieflv on cattle.
- 45159 STRUCK, Meckelsches divertikel am darm einer schlachtkuh. *Deut. Tierärztl. Wchnschr.* 58:54. Feb.15,1951. 41.8 D482
- 45160 TALSMAN, D. The effect of movement on the content of glucose and acetone bodies of the blood in parturient acetonæmia of milk cows. (In Dutch.) *Tijdschr. v. Diergeneesk.* 76:161-162. Feb.15,1951. 41.8 T431  
English summary.
- 45161 THIJN, J. W. Contagious abortion, *Brucella abortus* Bang. II. (In Dutch.) *Drents Landtbl.* 32(7):11. Feb.17,1951. 12 D812  
Diagnosis and treatment.
- 45162 THOMAS, J. A., and others. Essais de culture du virus aphteux sur foetus de bovin en survie aseptique. *Off. Internat. des Epiz. B.* 35:54-61. Jan./Feb.1951. 41.8 Of2  
J. P. Thiery, L. Salomon, and L. Salomon, joint authors.



- 45213 TORTORELLI, N.** Trends in cattle raising in the reclamation areas of southern Italy. (In Italian.) *Allevatore* 7(3):1. Jan.21,1951. 49 AL55
- 45214 TUBBS, L. G.** Catching the judge's eye. *Farm-er & Stock-Breeder* 65(3205):70-71. Mar.27/28,1951. 10 F228
- Grooming dairy cattle for the show ring.
- 45215 VILLARES, J. B.** Production of "baby-beef" in São Paulo. (In Portuguese.) *B. de Indús. Anim.* (n.s.) 11:97-109. Ref. June 1950. 49 R324
- 45216 VILLARES, J. B., and ROCHA, G. L. DA.** Zootechnical climatology. X. Contribution on the study of the habits of cattle in tropical pasturage. (In Portuguese.) *B. de Indús. Anim.* (n.s.) 11:3-22. Ref. June 1950. 49 R324
- English summary.
- 45217 WAUGH, R. K.** Success in raising dairy cows. *Carolina Farmer* 6(3):8. Mar.1951. 6 C223
- 45219 WITT, M.** Ostfrieslands angeldschau 1951 in Leer. *Landwirtsb. Weser-Ems* 98:137-140. Feb.15,1951. 18 L2345
- 45219 WYLIE, I.** One day's consignment from a Norfolk farm was a million meat rations. *Farm & Stock-Breeder* 65(3206):97-98. Apr.3/4,1951. 10 F228
- Beef cattle and sheep.

## DOGS AND CATS

### Breeds and Breeding

- 45220 BRYANT, H. E. C.** Dog fanciers are 'born'. A brief history of the famous Plott Hound and its abilities. *Grit & Steel* 52(12):28-30. Apr.1951. 47.8 G88
- 45221 DAGLISH, E. F.** On the judging of Dachshunds. *New Zeal. Dog World* 5(11):13-15. Dec.1950. 48.8 N48
- 45222 DUBUIS, E. M.** Science and your Cocker. *Wagging Tail* 5(8):7-11; (9):3-5; (10):11-13. Jan.-Mar.1951. 48.8 W12
- 45223 GOULD, E.** History of the American Pit Bull Terrier. *Bloodlines* 34(3):3,11,16. Mar./Apr.1951. 48.8 B62
- 45224 HORSWELL, L. A., and JONES, A. F.** Post-war history in breed figures. 1. Registrations and show championship competition of 20 leading breeds. *Amer. Kennel Gaz.* 68(4):13-17,252-253. Apr.1951. 48.8 Am3
- 45225 HUNTING dogs.** 1-3. N. Dak. Outdoors 13(7):4-5; (8):4-6; (9):4-5,8. Jan.-Mar.1951. 412.9 N815
1. Spaniels; 2. Retrievers; 3. Pointing breeds.
- 45226 JONES, A. F.** The breeds in brief; No. 108-109. *Amer. Kennel Gaz.* 68(3):29-30,213-215; (4):29-30,259-260. Mar.-Apr.1951. 48.8 Am3
108. Harrier; 109. Field Spaniel.
- 45227 MAYNE, F. C.** Mastiffs—origin and progress. *Breeder Dog J.* 1951:7-9. Jan.1951. 48.8 B742
- 45228 PALMER, G. F.** There's a breed for every purpose. *New Zeal. Dog World* 5(11):6-8. Dec.1950. 48.8 N48
- 45229 PICKING the best puppies in the litter.** *Dog World* [Chicago] 36(4):8,10. Apr.1951. 48.8 D672
- This issue also contains brief articles on this subject for practically every leading breed, each written by a wellknown breeder.
- 45230 RIDDLE, M.** The Springer Spaniel; a complete presentation, with illustrations of the origin, development, breeding, showing, training including field work and field trials, kenneling, care and feeding of this breed of dog, along with numerous charts of pedigrees of leading sires. Ed. 3. Chicago, Judy Pub. Co., 1951. 192 p. 48 R43
- 45231 ROSS, L. S.** Meet the Maltese. *All-Pets Mag.* 23:37,39,41. Jan.1951. 48.8 AL5
- Dogs.
- 45232 SERVIER, J.** En quoi diffèrent les trois variétés de Setters. (Sum.) *Acclimatation* 78:25. Feb.3,1951. 14 Ac2
- Summarized by A. Perron.

### Feeds and Feeding

- 45233 CORWIN, L. A.** Does your dog's food answer all his needs? *Amer. Kennel Gaz.* 68(3):22-25,28,212. Mar.1951. 48.8 Am3
- 45234 FELL, J. M.** Dogs do well in self-feeding tests. *Gaines Dog Res. Prog.* 1950/51:1-3. Winter 1950/51. 48.9 D67

## Veterinary Medicine

- 45235 ACKERT, J. E., and LIGENZOWSKI, F. L.** Chemical control of larvae of the dog hookworm *Ancylostoma caninum* (Ercolani). *Amer. J. Trop. Med.* 31:259-266. Ref. Mar.1951. 448.8 Am33
- 45236 ADLER, H. E., WILLERS, E. H., and LEVINE, M.** Incidence of Salmonella in apparently healthy dogs. *Amer. Vet. Med. Assoc. J.* 118:300-304. Ref. May 1951. 41.8 Am3
- 45237 ANCZYKOWSKI, F.** Coccidiosis in dogs. (In Polish.) *Med. Weter.* 6:659-663. Ref. Nov.1950. 41.8 M463
- 45238 BANDELIER, B.** Contribution à l'étude des hernies périméales. Paris, Foulon, 1950. 88 p. 41.2 B22
- Chiefly in dogs.
- Thèse - École Nationale Vétérinaire d'Alfort.
- 45239 BROUWERS, J., SCHOENAERS, F., and BIENFET, V.** Les leptospiroses canines en Belgique. *Ann. de Méd. Vét.* 95:3-17. Ref. Jan.1951. 41.8 An78
- 45240 CABASSO, V. J., BURKHART, R. L., and LEAMING, J. D.** The use of an egg-adapted modified canine distemper virus vaccine under experimental conditions and in the field. *Vet. Med.* 46:167-175,179. Ref. May 1951. 41.8 M69
- 45241 CAVAYE, M.** Aérosols antibiotiques dans le traitement de quelques affections microbiennes respiratoires du chien et du chat. Paris, Foulon, 1950. 71 p. 41.2 C313
- Thèse - École Nationale Vétérinaire d'Alfort.
- 45242 CHATEL, R.** Contribution à l'étude du traitement de la maladie de Carré par l'hydroxy-1 acétamide-1 méthane. Paris, Foulon, 1950. 76 p. Ref. 41.2 C395
- Thèse - École Nationale Vétérinaire d'Alfort.
- 45243 CLARY, M. L., CAMERON, A., and CRAVER, B. N.** Effects of estrogens and progesterone on motility of the feline uterus in vivo. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):287. Mar.1951. 442.9 F31P
- 45244 COCHE, P.** Coccidiose des carnivores. Paris, Foulon, 1950. 83 p. Ref. 41.2 C6425
- Thèse - École Nationale Vétérinaire d'Alfort.
- Dogs and cats.
- 45245 CORDY, D. R., and GORHAM, J. R.** Certain sulfonamides and antibiotics in the treatment of experimental "salmon poisoning" in dogs. *Amer. Vet. Med. Assoc. J.* 118:305-307. Ref. May 1951. 41.8 Am3
- 45246 CORNEJO, P. M.** Historia clínica de un perro rabioso aparente mente sano. *Rev. Granacolomb. de Zootec. Hig. y Med. Vet.* 4:29-35. Jan./Mar.1950. 41.8 R3253
- 45247 COWIE-WHITNEY, J.** An unusual sequel to spaying a bitch. *Roy. Army Vet. Corps. J.* 22:16. Mar. 1951. 41.8 G79
- Staphylococcus infection.
- 45248 DERZELLE, E.** Intoxication d'un chien par le D.D.T. *Ann. de Méd. Vét.* 95:44-47. Jan.1951. 41.8 An78
- 45249 DOUVILLE, A.** Propos de la myosite atrophique des masticateurs du chien. *Rev. de Méd. Vét. [Toulouse]* 101:457-460. Oct.1950. 41.8 R32
- 45250 FAURE, G.** Des injections intra-cardiaques chez le chien. Paris, Foulon, 1950. 46 p. Ref. 41.2 F273
- Thèse - École Nationale Vétérinaire d'Alfort.
- 45251 GREAUD, R.** Contribution au traitement chirurgical de la cataracte chez le chien. Paris, Foulon, 1950. 54 p. Ref. 41.2 G792
- Thèse - École Nationale Vétérinaire d'Alfort.
- 45252 GUILHON, J., and NORMAND, A.** Essais de traitement de l'eczéma et des brûlures des carnivores par l'acétylméthionate de sodium. *Acad. Vét. de France.* B. 24:39-40. Jan.1951. 41.9 R24
- Dogs and cats.
- 45253 HARE, W. C. D.** Two cases of an atypical arrangement of the caudal vena cava in the cat. *Brit. Vet. J.* 107:87-93. Mar.1951. 41.8 V643
- 45254 HENDERSON, W.** The repair of corneal injuries in the dog by conjunctival keratoplasty. *Vet. Rec.* 63:240-241. Mar.31,1951. 41.8 V641
- 45255 HODGMAN, S. F.** Hard-pad: the position as I see it to-day. *Smallholder* 84(2129):26. Mar.9,1951. 10 Sml
- Diagnosis and control in dogs.
- 45256 KADZIOŁKA, A.** A case of subcapsular haematoma of the kidney and abdominal hernia in a cat. (In Polish.) *Med. Weter.* 6:601. Oct.1950. 41.8 M463



45257 LACAN. Calculs urétraux chez un chiot. Rev. de Méd. Vét. [Toulouse] 101:461-462. Oct.1950.

41.8 R32

45258 LINZELL, J. L. An extra-uterine foetus in the cat. Vet. Rec. 63:223-225. Ref. Mar.24,1951. 41.8 V641

45259 MANN, G. V., and MCNALLY, A. Sudden death in riboflavin deficient dogs. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):389. Mar.1951. 442.9 F31P

45260 MEYNARD, J. A. Enclouage centro-médullaire du fémur chez le chien. Rev. de Méd. Vét. [Toulouse] 101:574-579. Nov.1950. 41.8 R32

45261 MISENER, A. G., and STANTON, H. H. Cortisone treatment in a dog. Amer. Vet. Med. Assoc. J. 118:255. Apr.1951. 41.8 Am3

45262 MULLIGAN, R. M. Spontaneous cat tumors. (Abs.) Cancer Res. 11:271. Apr.1951. 448.8 C16

45263 NARDELLI, L. Canine infectious hepatitis in Italy. (In Italian.) Zooprofilassi 5:529-530,533-536,539-544. Ref. Dec.1950. 41.8 Z72

English summary.

45264 NOBLE, N. M. Rabies in Eritrea. Roy. Army Vet. Corps. J. 22:14-15. Mar.1951. 41.8 G79

Dogs.

45265 OTTEN, E., and WESTPHAL, A. Die toxoplasmosose - zur frage der "berufskrankheit." Tierärztl. Umschau 6:102-103. Mar.1951. 41.8 T445

Transmission from dogs to veterinarians.

45266 OTTEN, E., WESTPHAL, A., and KAJAHN, E. Über das vorkommen von toxoplasmosose beim hunde; statistische erhebungen. Monatsh. f. Prakt. Tierheilk. (n.s.)2:305-308. Ref. 1950. 41.8 M74

45267 POUL, J. Sur la fréquence de la leishmaniose canine à Alger et sur la valeur diagnostique de la formolgelification. Inst. Pasteur d'Algérie. Arch. 28:449-456. Ref. Dec.1950. 448.3 In7A

45268 RIPPES, J. H. Cortisone for canine eye infections. Amer. Vet. Med. Assoc. J. 118:304. May 1951. 41.8 Am3

45269 ROBERTS, S. R. Autohemotransfusion following massive internal hemorrhage in a dog. Amer. Vet. Med. Assoc. J. 118:315. May 1951. 41.8 Am3

45270 SCHAEFER, A. E., COPELAND, D. H., and SALMON, W. D. Duodenal ulcers, liver damage, anemia and edema of chronic choline deficiency in dogs. J. Nutr. 43:201-221. Ref. Feb.10,1951. 389.8 J82

45271 SERRES, J. R. "Hidatidosis"; enfermedad de "quistes hidáticos" o de "vejigas o bolsas de agua" o de "quistes de perro." Soc. Rur. de Rosario. Rev. 30(343/344):95-97. Sept./Oct.1950. 9 So14

45272 SKORYNA, S. C., RUDIS, L. A., and WEBSTER, D. R. Pathogenesis of feline lung tumors produced by 2-acetylaminofluorene. (Abs.) Cancer Res. 11:280-281. Apr.1951. 448.8 C16

45273 STANISAK, O. Polyval, ein neues präparat für die ekzetherapie. Wien. Tierärztl. Monatsschr. 38:42-46. Jan.1951. 41.8 T345

Chiefly dogs.

45274 STEIN, E. Die heilungsaussichten bei der behandlung der nervösen staupe. Deut. Tierärztl. Wchnschr. 58:5-7. Jan.1,1951. 41.8 D482

45275 TARASEWICZ, W. A case of intussusception intestinal in a dog. (In Polish.) Med. Weter. 6:666-667. Nov.1950. 41.8 M463

45276 TRAPOLD, J. H., and WOODBURY, R. A. Delayed fall in blood pressure following administration of vasopressin to pregnant dogs. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):341. Mar.1951. 442.9 F31P

45277 TUFVESSON, G. Anesthesia of the brachial plexus. (In Swedish.) Nord. Vetmed. 3:183-193. Mar. 1951. 41.8 N813

English summary.

Dogs.

45278 VIECK, G. Die schnittführung durch haut und muskulatur bei knochenoperationen am Oberschenkel des hundes. Deut. Tierärztl. Wchnschr. 58:2-5. Jan.1,1951. 41.8 D482

45279 VOUTE, E. J., and VAN DER DUSSEN, E. E. Monstrosity in a cat. Amer. Vet. Med. Assoc. J. 118:150. Mar.1951. 41.8 Am3

45280 WILKINSON, G. T. The use of gold as a therapeutic agent in small-animal practice. Vet. Rec. 63:127-129. Feb.17,1951. 41.8 V641

Inflammatory conditions of joints and muscles in dogs treated with Myocrisin (sodium aurothiomalate).

## Miscellaneous

45281 BROWN, C. H., and BROWN, S. M., JR.

Should you ask for trouble? Do you realize what guard dog training means? Amer. Kennel Gaz. 68(4):22-25, 255-256. Apr.1951. 48.8 Am3

45282 GIGSTEAD, G. Bird dogs on mink farms.

Fur-Fish-Game 46(3):44-45. Mar.1951. 410 F962

45283 HEDER, F. Wie ich meine hunde dressierte. Ed. 8. München, Bayerischer Landwirtschaftsverlag, 1950. 87 p. 48 H35

45284 LOWRY, R. K. No more dogs "for free"!

All-Pets Mag. 22:40-41. Jan.1951. 48.8 AL5

Care and feeding.

45285 MANN, E. S. Are we rushing failure?

Shouldn't we call a halt on making puppy champions?

Amer. Kennel Gaz. 68(3):20-21,28. Mar.1951. 48.8 Am3

45286 MOUTTE, P. Les bandes de chiens. Réveil

Agr. 60:58. Feb.15,1951. 14 R322

45287 PESCE, P. A. Il gatto, nelle sue manifestazioni dalle origini ai tempi nostri [The cat, from its origins to our times]. Milano Bolla. 1950. 247 p. 48 P432

45288 RASTALL, S. H. About judging and judges.

Should there be an examination for the judge-to-be?

Practically every breeder is a potential judge. New Zeal

Dog World 5(11):9-12. Dec.1950. 48.8 N48

45289 WIMHURST, C. G. Train your dog. All-Pets

Mag. 22:41. Jan.1951. 48.8 AL5

## FUR ANIMALS - PEN RAISED

### Breeds and Breeding

45290 ROCHMANN, R. The fur farm just now. (In Norwegian.) Norsk Pelsdyrbl. 25:153-155. Feb.20,1951. 412.628 N812

Mating of mink and foxes.

45291 SKÄRMAN, S. Studies of the fur development of cubs of silver foxes. (IV). (In Swedish.) Vara Palsdjur 1950:337-349. Dec.15,1950. 410 V42

45292 VENGE, O. Fertility investigations in the mating season. (In Danish.) Dansk Pelsdyravil 14:64-66. Mar.1,1951. 412.628 D23

Foxes and minks.

45293 VILKE, K. The mink before and during the mating season. (In Norwegian.) Norsk Pelsdyrbl. 25:167-168. Feb.20,1951. 412.628 N812

Feeding and breeding.

### Feeds and Feeding

45294 FIRSTOV, A. A., VAKHRAMEEV, K. A., and SIDOROV, V. M. On the level of protein nutrition of the young of silver-black foxes. (In Russian.) Karakulevodstvo i Zverovodstvo 3(5):50-54. Sept./Oct.1950. 49 K14

45295 MOMBERG-JØRGENSEN, H. C. Poultry waste is a first class fur animal feed, but—! (In Danish.) Dansk Pelsdyravil 14:69-70. Mar.1,1951. 412.628 D23

45296 PETERSEN, F. H. Experiments and practice. (In Danish.) Dansk Pelsdyravil 14:33-36,56. Feb.1,1951. 412.628 D23

Feeding of mink and foxes.

45297 PETERSEN, F. H. Karenmøllens' fur animal feed for mink. (In Danish.) Dansk Pelsdyravil 14:57. Feb.1,1951. 412.628 D23

45298 VILKE, K. Problems in mink feeding. (In Norwegian.) Norsk Pelsdyrbl. 24:381. Dec.5,1950. 412.628 N812

45299 WASSERTHAL-ZUCCARI, E. VON. Big mink. (In Swedish.) Vara Palsdjur 1951:56-57. Feb.15,1951. 410 V42

Feeding.

### Veterinary Medicine

45300 BELIAEV, D. K., and PORTNOVA, N. T. In regard to speeding up the time of fur development on foxes. (In Russian.) Karakulevodstvo i Zverovodstvo 3(5):47-50. Sept./Oct.1950. 49 K14

Study of light effect.

45301 DUBNITSKII, A. A. Crenosomatosis of sables. (In Russian.) Karakulevodstvo i Zverovodstvo 3(5):73-74. Sept./Oct.1950. 49 K14

Caused by Crenosoma taiga nematode.



- 45302 GORHAM, J. R., and DEJONG, D. H. Dehydration and salt poisoning in mink. *Pelletteries du Québec* 16(2):11. Feb.1951. 412.628 P36
- 45303 HARTSOUGH, G. R. Streptococcic septicemia in mink kits. *Vet. Med.* 46:191,193. May 1951. 41.8 M69
- 45304 MASON, K. E., and HARTSOUGH, G. R. Relation of 'steatitis' or 'yellow fat' in mink to dietary fats and inadequacy of vitamin E. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):389. Mar.1951. 442.9 F31P
- 45305 OTT, G. L. Distemper vaccine offers protection—not a cure. *Amer. Natl. Fur & Mkt. J.* 29(9):6. Apr.1951. 412.629 Am3M
- For mink.
- 45306 SHADRIN, M. G. Experiment in vaccination of silver-black foxes against paratyphoid during the mating period. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(5):75-76. Sept./Oct.1950. 49 K14
- 45307 SPREHN, C. Über den biologischen wert der Torula-wuchshefe. *Tierärztl. Umschau* 6:81-86. Ref. Mar.1951. 41.8 T445
- Experiments with fur-bearing animals.
- 45308 VOLKOV, G. D. Pentothal narcosis of silver-black foxes. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(5):70-73. Sept./Oct.1950. 49 K14
- Miscellaneous
- 45309 AYERS, C. R. What ranch inspection means to me. *Natl. Chinchilla Breeder* 7(1):14. Mar.1951. 412.628 N21
- 45310 BAL, L. The lazy man's dust bath. *Natl. Chinchilla Breeder* 7(2):10,29. Apr.1951. 412.628 N21
- 45311 CLAY, H. J. Healthy babies—they're in your hands. *Natl. Chinchilla Breeder* 7(1):10. Mar.1951. 412.628 N21
- 45312 GUNN, C. K. A message for Canadian mink ranchers. *Fur Trade J. Canada* 28(7):18,28,30. Mar.1951. 410 F965
- 45313 THE JUDGES review the last show season; opinions of important mink judges concerning their participation in various important shows throughout the country. *Amer. Fur Breeder* 24(3):10-11,30-32,34,36,38, 40. Mar.1951. 410 Am33
- By H. W. Reed, F. C. Gothier, G. H. Mayers, J. E. Veasey, H. Mezger, M. Dederer, and D. Loffman.
- 45314 LADUE, H. J. A judge's-eye view of live animal shows. *Amer. Fur Breeder* 24(3):8-9,76. Mar.1951. 410 Am33
- 45315 MÍASNIKOV, V. Z. From the practice of mink raising on Roshchinsk fur animal state farm. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(5):77-78. Sept./Oct.1950. 49 K14
- 45316 PEDERSEN, R. Coypu. (In Swedish.) *Våra Palsdjur* 1951:59-61. Feb.15,1951. 410 V42
- Care.
- 45317 ROCHMANN, R. The national exhibition 1950. (In Norwegian.) *Norsk Pelsdyrbil.* 25:6-10. Jan.5,1951. 412.628 N812
- Fur animals.
- 45318 RUCH, L. A. H. Eastern regional show marks close competition. *Natl. Chinchilla Breeder* 7(2):9,26-27. Apr.1951. 412.628 N21
- On conducting shows.
- 45319 SHIELDS, C. Easy does it; writer advocates simplicity and uniformity in the unit. *Natl. Chinchilla Breeder* 7(2):12. Apr.1951. 412.628 N21
- HORSES AND MULES
- Breeds and Breeding
- 45320 BERKELEY, M. Shall we inbreed? *Horse World* 9(2):32,36. Mar.1951. 42.8 Io9
- 45321 BIELANSKI, W. The role of examinations of the stallion's semen for the determination of fertility. (In Polish.) *Med. Weter.* 6:674-680. Ref. Nov.1950. 41.8 M463
- English summary.
- 45322 BRITTON, J. W. Seasonal health tips on horses. *Horse Lover* 15(5):12. Feb./Mar.1951. 42.8 H7852
- Amount and characteristics of semen of stallions.
- 45323 DOWNING, O. L. What makes a Quarter Horse? *West. Livestock J.* 29(22):120. Mar.15,1951. 6 F2278
- 45324 ELAM, F. L. Hobby or business? *West. Live-stock J.* 29(22):123,125-126. Mar.15,1951. 6 F2278
- Breeding and selling the Tennessee Walking Horse.
- 45325 ETSCHKEIT, C. Weinbau und—pferdezucht. *Weinbau* 6:53. Feb.4,1951. 390.8 W432
- 45326 HELING, M. Typfragen in der pferdezucht. *Neue Mitt. f. die Landwirt.* 6:52-53. Jan.27,1951. 18 N39
- 45327 HELBUSCH, C. E. The right combination. *West. Livestock J.* 29(16):56,58-59,62. Feb.15,1951. 6 F2278
- Breeding horses.
- 45328 HOLAN, E. Horse-breeding in Israel. (In Hebrew.) *Hassadeh* 31:191-192. Jan.1951. 26 H27
- 45329 HOLMJARN, H. J. Breeding of riding horses in Iceland. (In Icelandic.) *Freyr* 45:328-330. Dec.1950. 11 F89
- 45330 JARVIS, R. There's life yet in the trade for Clydesdales. *Farming News & No. Brit. Agr.* 103:55. Jan.1,1951. 10 N82
- 45331 JOCKEY CLUB. Foals of 1949 registered under the Jockey Club. *American stud book*, v. 19, sup. 4. New York,1951. 364 p. 42.9 Am31
- 45332 JORDAO, L. P., and GOUVEIA, P. F. Reproductive efficiency of English Pure Bloods (Thoroughbreds) in São Paulo. (In Portuguese.) *B. de Indús. Anim. (n.s.)* 11:23-71. Ref. June 1950. 49 R324
- English summary.
- 45333 KJAER, A. Does age of breeding animals affect breeding results. (In Danish.) *Dansk Landbr.* 70:103-105. Mar.1,1951. 280.28 V91
- Horses.
- 45334 LIEUX, P. L'élevage et l'entraînement du cheval de pur sang anglais. Paris, Foulon, 1950. 64 p. Ref. 42 L622
- Thèse - École Nationale Vétérinaire d'Alfort.
- 45335 LINCETTO, G. Impressions on artificial insemination in race horses. (In Italian.) *Zootec. e Vet.* 5:1054. Dec.1950. 41.8 Z7
- 45336 LUCA, M. DE. The breeding of the Sanfratellano horse. (In Italian.) *Zootec. e Vet.* 6:79-88. Feb.1951. 41.8 Z7
- 45337 MCGEE, W. R. Barren and maiden mares. Early examinations desirable. If treatment is needed, it should begin well in advance of the breeding season. *Blood-Horse* 61:660-661. Mar.31,1951. 42.8 B392
- 45338 MANNING, J. The practicability of the present day Quarter Horse. *Nebr. Cattleman* 7(6):28. Feb.1951. 43.8 N27
- 45339 MICHEL, V. Un point de l'histoire du cheval; Godolphin Arabian. *Colon Franç. de Tunisie (ser.7)* 60 (2138):1-2. Apr.1,1950. 24 C712
- 45340 NYE, N. C. Quarter Horses in Arizona. *West. Horseman* 16(3):10-11,42-43. Mar.1951. 42.8 W522
- 45341 PECKINPAH, R. L. Outstanding Appaloosa bloodlines. III. *Horse Lover* 15(5):44-45. Feb./Mar.1951. 42.8 H7852
- 45342 PHELPS, F. T. Great foundation sires of the American Thoroughbred. I. *West. Horseman* 16(3):6-7, 45-46. Mar.1951. 42.8 W522
- 45343 REYNOLDS, F. Inbreeding is good. *West. Horseman* 16(3):14-15,37-39. Mar.1951. 42.8 W522
- 45344 RULIEN, V. H. Arab international—'grass roots' breeders organize to promote, perpetuate Arabians. *West. Livestock J.* 29(16):94-96. Feb.15,1951. 6 F2278
- 45345 STALLION questionnaire. How important is breed type? How do you choose a stallion? What about conformation? *West. Livestock J.* 29(16):47,50. Feb.15, 1951. 6 F2278
- 45346 TAGAKI, S. Bagaku sosetsu [Elements of scientific horse-breeding]. Tokyo, Yokendo, 1950. 444 p. 42 T12
- 45347 TAYLOR, L. Conformation spells the difference. *West. Livestock J.* 29(16):103-105. Feb.15,1951. 6 F2278
- Quarter Horse conformation.
- 45348 TAYLOR, L. Short horse boom—Quarter Horse business stabilized by interest of western ranchers. *West. Livestock J.* 29(22):122,141. Mar.15,1951. 6 F2278
- Feeds and Feeding
- 45349 BRUNINI, J. Why must we give calcium to horses? (In Portuguese.) *Seleç. Agr.* 6(57):13-17. Jan. 1951. 9.2 Se4
- 45350 DOBRYNIN, V. P., and others. Korma difa loshadel [Feeds for horses]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 215 p. 389.7 D65
- L. A. Galichnikova, L. P. Davydova, A. I. Derevlev, M. E. Skachkov, and E. A. Chalik, joint authors.



- 45351 MAINARDI, G. Horses and pastures. (In Italian.) Riv. di Zootec. 23:356-357. Nov.1950. 49 R52  
 45352 TEAM, C. B. Feed him fat or thin—degree of flesh of your horse depends on the master's eye. West. Livestock J. 29(16):48,75-76,78. Feb.15,1951. 6 F2278

### Veterinary Medicine

- 45353 ALUN-JONES, W. S. Clinical communications. Vet. Rec. 63:205. Mar.17,1951. 41.8 V641  
 I, A case of basal haemorrhage [in a pony]; II, An unusual ending to a case of oesophageal obstruction [in a cow]; III, An unusual case of conjunctivitis [in a draft horse].  
 45354 ARIES, L. Über demodicosis bei pferden. Deut. Tierärztl. Wchnschr. 58:102-106. Ref. Apr.1,1951. 41.8 D482  
 Demodex equi.  
 45355 BULLEN, J. J. Epizootic lymphangitis. Roy. Army Vet. Corps. J. 22:8-11. (Cont.) Mar.1951. 41.8 G79  
 Horses and mules.  
 45356 CAKALA, S. A case of myositis chronica in a horse, suspected of sarcosporidiosis. (In Polish.) Med. Weter. 6:518-520. Sept.1950. 41.8 M463  
 45357 DEBSKI, J. The route of infections of the organism with Trypanosoma equiperdum (Doflein 1901). (In Polish.) Med. Weter. 6:727. Dec.1950. 41.8 M463  
 Cause of dourine.  
 45358 DIAZ UNGRIA, C. La fenotiazina en la estroñgilosis intestinal de los équidos. B. de Divulg. Ganad. [Valladolid] 7:436-440. Dec.1950. 49.9 Sp12  
 45359 DIMOCK, W. W. "Wobbles"—an hereditary disease in horses. J. Hered. 41:319-323. Dec.1950. 442.8 Am3  
 45360 DYRENDahl, S. Get to know the horse—the working comrade. I-II. (In Swedish.) Skogsägaren 27:3-14,37-49,42. Jan.-Feb.1951. 99.8 Sk55  
 Diseases.  
 45361 EATON, G. A note on the use of hexamine in the treatment of tetanus in the horse. Vet. Rec. 63:59-60. Jan.27,1951. 41.8 V641  
 45362 FORESTI, C. On the cure of latent chronic endometritis in trotter mares. (In Italian.) Zooprofilassi 5:556-560. Dec.1950. 41.8 Z72  
 45363 GÖBEL, F. Ausgedehnte haut- und muskelnekrose bei einem pferde nach Baludoninjektion. Tierärztl. Umschau 6:86-90. Mar.1951. 41.8 T445  
 45364 GREISS, A. A successful treatment of tetanus. (In Polish.) Med. Weter. 6:737. Dec.1950. 41.8 M463  
 In a mare.  
 45365 GRIMPRET, J., CORVISIER, M., and SADOT, M. Essais de traitement de la dourine par le diaminodiphénopentane. Soc. de Path. Exot. B. 43:558-563. 1950. 448.9 So13  
 45366 GRUDZIENSKI, J. Two cases of the application of penicillin to a horse. (In Polish.) Med. Weter. 6:670. Nov.1950. 41.8 M463  
 45367 HENTSCHER, H. Ein beitrag zur arthritits purulenta des hufgelenks. Deut. Tierärztl. Wchnschr. 58:7-8. Jan.1,1951. 41.8 D482  
 In a horse.  
 45368 HILLIARD, B. F. Abdominal puncture in mule. Amer. Vet. Med. Assoc. J. 118:308. May 1951. 41.8 Am3  
 Surgical treatment of injury.  
 45369 HURST, E. W. Some observations on the pathogenesis of eastern equine encephalomyelitis and louping-ill in young and old animals, with special reference to routes of entry of the viruses into the nervous system. J. Compar. Path. & Ther. 60:237-262. Ref. Oct.1950. 41.8 J82  
 Experiments with mice.  
 45370 ISAKSSON, A. Wall's liver biopsy for horses. Amer. Vet. Med. Assoc. J. 118:320-322. May 1951. 41.8 Am3  
 Technique and equipment; used in diagnosis of infectious anemia.  
 45371 JACQUES, D. Contribution à l'étude étiologique au traitement par les antibiotiques et à la cure chirurgicale de la pododermite végétante exsudative des solipèdes. Saint-Dié, Impr. Loos, 1950. 59 p. Ref. 41.2 J162  
 Thèse - École Nationale Vétérinaire d'Alfort.  
 45372 JANISZEWSKI, J. A case of urinary calculi in a two-month foal. (In Polish.) Med. Weter. 6:670. Nov. 1950. 41.8 M463  
 45373 JAQUINOT, G. De l'emploi du novarséno-benzol dans le traitement de l'emphysème pulmonaire du cheval et du boeuf. Paris, Foulon, 1950. 54 p. 41.2 J27  
 Thèse - École Nationale Vétérinaire d'Alfort.  
 45374 KRAL, F. Epileptiform manifestations of endocrine disturbances associated with adrenal tumors. Amer. Vet. Med. Assoc. J. 118:235-239. Apr.1951. 41.8 Am3  
 Case in a mare.  
 45375 LEKARIEW, W. M. On some problems of the control of equine infectious anaemia. (In Polish.) Med. Weter. 6:656-659. Nov.1950. 41.8 M463  
 45376 LIENERT, E. Nachweis von phosphatasen im magendarmtrakt des pferdes. Wien. Tierärztl. Monatsschr. 38:25-29. Ref. Jan.1951. 41.8 T345  
 45377 LÜBKE, A. Zur diagnose der infektiösen anämie durch untersuchung von zitratblutproben. Deut. Tierärztl. Wchnschr. 58:83-85. Mar.15,1951. 41.8 D482  
 45378 MCGEE, W. R. Infections in broodmares. Bacterial cultures are the most reliable indicators of infection. The use of sutures has noticeably reduced infertility. Blood-Horse 61:736-738,750. Apr.14,1951. 42.8 T392  
 Vaginal examination and surgical repair of vulva.  
 45379 MACLENNAN, I. S. Report on the use of Anavenol as an anaesthetic for horses and mules in Egypt. Roy. Army Vet. Corps. J. 22:12-13. Mar.1951. 41.8 G79  
 45380 MORA, M. La encefalomyelitis o "locura del caballo." Chacra 21(244):14-15. Mar.1951. 9 C34  
 45381 MURATOV, S. I. New data on immunity to equine infectious anemia. (In Russian.) Agrobiologija 1950(6):121-122. Nov./Dec.1950. 20 Ag822  
 45382 NANTEL, A. Influence de la décongélation sur le titre du virus de l'encéphalomyélite équine (type est). Inst. Pasteur. Ann. 80:203-206. Feb.1951. 448.3 An75  
 45383 OVERBECK, H. Trepanationsmesser zur medianen eröffnung der kopfhöhlen des pferdes. Tierärztl. Umschau 6:94-95. Mar.1951. 41.8 T445  
 45384 PANKRATOV, A., and TRET'IAKOVA, A. Causes which stimulate the appearance of strangles in horses and methods for eliminating the infection. (In Russian.) Veterinarifa 27(11):29-33. Nov.1950. 41.8 V6426  
 45385 PERMINOV, T. A., and DEMCHENKO, M. KH. Clinical observations on horses experimentally infected with the virus of Aujeszky's disease. (In Russian.) Veterinarifa 27(11):12-15. Nov.1950. 41.8 V6426  
 45386 SAINT-QUENTIN, M. Sachons reconnaître les tares des membres chez les chevaux. Rustica 24:139. Feb.18,1951. 14 R92  
 Exostosis.  
 45387 SCHOPPER, A. Zur behandlung der nymphomanie der stuten und der hypersexuellen temperamentsfehler der hengste mit epiphysan G. Richter. Wien. Tierärztl. Monatsschr. 38:41-42. Jan.1951. 41.8 T345  
 45388 SCHOUPPE, K. Bemerkungen zu O.-V.-R. tierarzt Schoppers "Beitrag zur kastration von hengsten und ebern mit der Derbyligatur." Wien. Tierärztl. Monatsschr. 38:38-41. Jan.1951. 41.8 T345  
 45389 SCHRÖTER, A. Blutuntersuchungen bei der Bornaschen krankheit der pferde. Monatsh. f. Vetmed. 6:87-90. Mar.1,1951. 41.8 M742  
 45390 SEN, M. R. Rupture of liver in horses during hyperimmunisation. Indian Vet. J. 27:258-261. Jan.1951. 41.8 In2  
 45391 SMITH, R. E. Wounds, bane of all horsemen; various types, treatment. Morgan Horse Mag. 11(2):15, 33. Apr.1951. 42.8 M82  
 45392 STEFANIAK, W. A case of inflammation of the mandibular joint in a horse caused by blastomycosis. (In Polish.) Med. Weter. 6:730-732. Dec.1950. 41.8 M463  
 45393 TANDA, S. Anomalien der mm. extensores digitorum bei Equiden. Wien. Tierärztl. Monatsschr. 38:109. Feb.1951. 41.8 T345  
 45394 VOLKOV, G. D. Pentothal [sodium] narcosis. (In Russian.) Veterinarifa 27(11):42-46. Nov.1950. 41.8 V6426  
 Includes experiments with horses.  
 45395 ZIJL, W. J. VAN. The precordial electrocardiogram of the horse. (In Dutch.) Tijdschr. v. Diergeneesk. 76:226-231. Mar.15,1951. 41.8 T431  
 English summary.  
 45396 ZULINSKI, T. Infectious anaemia of horses in the light of histopathological studies. (In Polish.) Med. Weter. 6:576-579. Oct.1950. 41.8 M463



Miscellaneous

- 45397 BAKER, J. Be patient in schooling the colt; the "youngster" should be taught gradually, slowly promoted from kindergarten, to high school, to college. *Horse Lover* 15(5):40-41.65. Feb./Mar.1951. 42.8 H7852
- 45398 BERNHARD, G., and others. Pferdehaltung, schirren und fahren. Zollikofen, Oekonomische und Gemeinnützige Gesellschaft des Kantons Bern, 1950. 27 p. 42 B454
- 45399 E. Schneeberger, H. Arni, and H. Bieri, joint authors. 45399 BUELL, T. E. Better horse shows—national association unifies, builds activities of horsemen in 41 States. *West. Livestock J.* 29(16):70-73. Feb.15, 1951. 6 F2278
- 45400 DUCURTIL, F. A tort et à travers, sur le cheval et les souvenirs qu'il évoque. *Colon Franc. de Tunisie* (ser.7)60(2144):1-2. May 13, 1950. 24 C712
- 45401 DUDLEY, A. Raising the orphan colt. *West. Horseman* 16(3):20-21.35-36. Mar.1951. 42.8 W522
- 45402 ENSMINGER, M. E. Horse husbandry. Danville, Ill., Interstate, 1951. 336 p. 42 En7
- 45403 FOREMAN, M. Horse handling science. 29. *Cattleman* 37(11):34. Apr.1951. 49 C29
- 45404 KAYS, J. M. The care of light horses. *Mo. Agr. Expt. Sta. C.* 353.39 p. Dec.1950. 100 M693
- 45405 LEHRNER, H. Leistungsprüfungen in der gebrauchspferdezucht. *Wien. Tierärztl. Monatsschr.* 38: 89-108. Feb.1951. 41.8 T345
- 45406 PALACIOS ALBIÑANA, J. El caballo en el mito y en la leyenda. B. de Divulg. Ganad. [Valladolid] 7: 387-393. Ref. Dec.1950. 49.9 Sp12
- 45407 SCOTT, I. H-H-H horses; for better horse-men tomorrow, boost 4-H horse projects today. *Horse Lover* 15(5):34-35.59. Feb./Mar.1951. 42.8 H7852
- 45408 SEIBOLD, D. Wanted: showmanship. *West. Livestock J.* 29(16):46,100-101. Feb.15, 1951. 6 F2278
- 45409 SVENDSEN, C. Saddle horse classification; some tips for beginners on organizing and staging a horse show. *Horse Lover* 15(5):36-37. Feb./Mar.1951. 42.8 H7852
- 45410 THOMPSON, R. C. The rejuvenation of "Mike"; a neglected horse responds to proper care and feeding. *Horse Lover* 15(5):19.64. Feb./Mar.1951. 42.8 H7852

POULTRYBreeds and Breeding

- 45411 BRILES, W. E. Antigenic differences between inbred lines of chickens. (Abs.) *Genet. Soc. Amer. Rec.* 19:90-91. 1950. 44.2.9 G28
- 45412 CORNISH BREEDERS CLUB OF CALIFORNIA. Cornish changes. *Amer. Poultryman* 14(2):14-15. Apr. 1951. 47.8 So86
- 45413 DAVIN, J. A. Discussion of the Oriental Frill standard. *Amer. Pigeon J.* 40:99,109. Apr.1951. 47.8 Am35
- 45414 DAVIN, J. A. Pigmy Pouter, toy of the Pouter world. *Amer. Pigeon J.* 40:105. Apr.1951. 47.8 Am35
- 45415 DU PLESSIS, P. H. C. The artificial insemination of poultry. *Farming So. Africa* 26:64-68. Feb.1951. 24 So842
- 45416 GERRIETS, E. Die künstliche besamung des geflügels. *Monatsh. f. Vetmed.* 6:92-95. Ref. Mar.1, 1951. 41.8 M742
- 45417 GUERANDE, C. La poule Orpington—ses variétés. *Rustica* 24:164.173. Feb.25, 1951. 14 R92
- 45418 HANSEN, H. J. Breeders should advertise more. *Hatchery & Feed* 25(3):70-72. Mar.1951. 47.8 H28
- 45419 HICKS, J. S. The Rhode Island Red. *Poultry [London]* 108:154. Feb.20, 1951. 47.8 P869
- 45420 HICKS, J. S. The Sussex "just grew." *Poultry [London]* 108:193-194. Mar.6, 1951. 47.8 P869
- 45421 HUTCHINGS, R. S. Miniature genetics. 1-2. *Poultry [London]* 108:174,194. Feb.27-Mar.6, 1951. 47.8 P869
- 45422 HUTTON, J. The Plymouth Rock [Bantam]. *All-Pets Mag.* 22:61. Jan.1951. 48.8 A1.5
- 45423 IGHIKAWA, Y. Katei yokei no teiki [Guide to chicken breeding for the family]. Tokyo, Taibunkan, 1950. 161 p. 47 I23
- 45424 JEFFREY, F. P. Breeders shouldn't pamper their stock. *Broiler growers want a chick that can stand up and take it.* *Broiler Growing* 2(4):14,49. Apr.1951. 47.8 B782

- 45425 JULL, M. A. Brand new idea enters breeding arena. Just as we appear to have reached a limit in breeding, along comes a new slant on the "nickability of strains." *Hatchery & Feed* 25(3):66,68. Mar.1951. 47.8 H28
- 45426 KAPPEN, K. Brauchen wir neue hühnerrassen? *Kleintierzüchter Tierbörse* 4(53):2. Dec.20, 1950. 49 K672
- 45427 KLEVAY, L. M. What is a 'hybrid' chicken? *Amer. Poultry J.* 82(2):10,39. Feb.1951. 47.8 Am32
- 45428 MCCLARY, C. F., and LERNER, I. M. Extra-chromosomal effects in the transmission of egg-shell quality in chickens. (Abs.) *Genet. Soc. Amer. Rec.* 19: 113. 1950. 44.2.9 G28
- 45429 MACKLIN, H. P. Pigeon portraits: the Barb pigeon. *Amer. Pigeon J.* 40:100-103. Apr.1951. 47.8 Am35
- 45430 MACKLIN, H. P. Regarding the Snip pigeon. *Amer. Pigeon J.* 40:108-109. Apr.1951. 47.8 Am35
- 45431 MANN, G. E. Poultry breeding; genetics and systems of breeding. *Gt. Brit. Min. Agr. & Fisheries B.* 146,111 p. 1951. 10 G794B
- 45432 NOFTZGER, S. A. The origination of Part-ridge Plymouth Rocks. *Amer. Poultryman* 14(2):10. Apr.1951. 47.8 So86
- 45433 OVCHINNIKOV, I. Hybrid ducks. (In Russian.) *Masshaf Indus. SSSR.* 21(5):93. Sept./Oct.1950. 50.8 M58
- 45434 PERZLMAYER, F. W. Hat die ur- und kampfhühnzucht in Deutschland tradition? *Kleintierzüchter Tierbörse* 4(53):3. Dec.20, 1950. 49 K672
- 45435 RAIMO, H. F. Sexing day-old New Hampshire chicks by the Rowell-Jardim method. (In Portuguese.) *B. de Indús. Anim. (n.s.)* 11:73-84. June 1950. 49 R324
- 45436 RAJYA, B. S. Choosing a profitable poultry breed. *United Prov. Vet. Mag.* 25:28-31. Apr./July 1950. 41.8 Un3
- 45437 RÖMER, R. R. Holländische geflügelzucht und -haltung. *Geflügelhof* 13:855-858;14:62-66. Dec.29, 1950, Jan.26, 1951. 47.8 G276
- 45438 ROONEY, W. F. Artificial insemination boosts natural fertility. *Turkey World* 26(4):62,64-66. Apr.1951. 47.38 T84
- 45439 SAMAT, M. Question de race. *Révell Agr.* 60: 73-74. Mar.1, 1951. 14 R322
- 45440 SHAFFNER, C. S. Turkey fertility. *Md. Poultry Ybk.* 1951:47,49. 47.9 M36
- 45441 SOPIKOV, P. M. New method of vegetative hybridization of poultry by means of blood transfusion. (In Russian.) *Priroda* 39(10):66. Oct.1950. 410 P933
- 45442 SUGGESTED changes in the [American] Standard of Perfection. *Amer. Poultryman* 14(2):10 A-10 H,11-12,14. Apr.1951. 47.8 So86
- 45443 VETTER, H. Sundheimer, unsere badische heimatrasse. *Kleintierzüchter Tierbörse* 4(53):4. Dec.20, 1950. 49 K672
- 45444 WATMOUGH, W. Modenas in Britain. *All-Pets Mag.* 22:64-65,67. Jan.1951. 48.8 A15
- 45445 WILLIES, J. S. New sex-linked crosses from Golden Legbar fowls. *Farmer's Wk. [Bloemfontein]* 80: 53. Mar.7, 1951. 24 F225

Feeds and Feeding

- 45446 BERG, G. L. Raise 'em on grass. *Everybody's Poultry Mag.* 56(4):10,37-39. Apr.1951. 47.8 F213P
- 45447 BERG, L. R., and BEARSE, G. E. Studies of the granulation of chicken laying mash. *Wash. Agr. Expt. Sta. B.* 522.20 p. Feb.1951. 100 W27E
- 45448 BLAKELY, R. M. How fast do turkeys grow? How much do they eat? *Canada Poultryman* 38(3):4,37. Mar.1951. 47.8 C166
- 45449 COMBS, G. F. 1951 broiler ration. *Md. Poultry Ybk.* 1951:54. 47.9 M36
- 45450 COMBS, G. F. Vitamin B12 in breeder ration. *Md. Poultry Ybk.* 1951:10-11. 47.9 M36
- 45451 COUCH, J. R. B12 supplements for poultry. *Flour & Feed* 51(11):20,42. Apr.1951. 298.8 F66
- 45452 COUCH, J. R., ELAM, J. F., and GEE, L. L. Effect of penicillin on growth, egg production and hatchability. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):379. Mar.1951. 44.2.9 F31P



- 45454 CRAVENS, W. W., and others. Evidence of two unidentified factors required by the chick. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):379. Mar.1951. 442.9 F31P
- H. W. Bruins, M. L. Sunde, and E. E. Snell, joint authors.
- 45455 EWING, A. B. Chemical team spurs growth. Sci. News Let. 59:234-235. Apr.14,1951. 470 Sci24
- Antibiotics and vitamin B<sub>12</sub> in nutrition of poultry and hogs.
- 45456 FRONDA, F. M. Water and your chickens. Agr. & Indus. Life 13(2):6. Feb.1951. 25 Ag8
- 45457 FULLER, L. Mother White [clover] feeds the turkeys, the grower reaps the profit; new clover—ups income by lowering feed bills, raising egg quantity, hatchability. South. Seedsman 14(4):36,62. Apr.1951. 61.8 So8
- 45458 GALLEGO PIEDRAFITA, J. Qué dieta emplearemos este año con nuestras polladas y cómo valorarlas? B. de Divulg. Ganad. [Valladolid] 7:441-444. Dec.1950. 49.9 Sp12
- 45459 GETTING the best feed for your flock. Country Gent. 121(4):38. Apr.1951. 6 C833
- 45460 GILLIS, M. B., and NORRIS, L. C. The effect of vitamin B<sub>12</sub> on the response of chicks to betaine and choline. J. Nutr. 43:295-302. Ref. Feb.10,1951. 389.8 J82
- 45461 GWIN, J. M. Should feed be withheld from ready-to-dress poultry? Everybodys Poultry Mag. 56(4):40. Apr.1951. 47.8 F213P
- 45462 JOHNSON, E. A. Feed efficiency as affected by fiber content of ration. Co-op. Poultryman 16(4):6-7. Apr.1951. 47.8 C782
- 45463 JOHNSON, E. L., CATRON, D., and WOLF, D. Latest on wonder drugs in feeds. Successful Farming 49(4):36-37,74-75,154,156-158. Apr.1951. 6 Su12
- Antibiotics in poultry and swine nutrition.
- 45464 JUKES, T. H., and STOKSTAD, E. L. R. Vitamin B<sub>12</sub>, methionine, choline and related substances as growth factors for chicks. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):386. Mar.1951. 442.9 F31P
- 45465 ENNARD, D. C. Chickens on pasture. Rur. New-Yorker 101:210,233. Mar.17,1951. 6 R88
- 45466 KENT, O. B. Color, taste or smell? Some light on the question of what attracts chickens to their feed or scares them away from it. Amer. Poultry J. 82(2):28,30. Feb.1951. 47.8 Am32
- 45467 KLOSE, A. A., and others. The role of dietary fat in the quality of fresh and frozen storage turkeys. Amer. Oil Chem. Soc. J. 28:162-164. Apr.1951. 307.8 J82
- E. P. Mecchl, H. L. Hanson, and H. Lineweaver, joint authors.
- 45468 KRATZER, F. H., and others. Growth-promoting activities of antibiotics and yeast cultures for chicks and turkey poults. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):386. Mar.1951. 442.9 F31P
- C. R. Grau, M. P. Starr, and D. M. Reynolds, joint authors.
- 45469 KRATZER, F. H., and WILLIAMS, D. E. Raisins for turkeys; fed at will with no harmful effects on growth and quality. Calif. Agr. [Calif. Sta.] 3(4):13. Apr.1951. 100 C12Cag
- 45470 KRATZER, F. H., WILLIAMS, D. E., and MARSHALL, B. The tryptophan requirement of young turkey poults. J. Nutr. 43:223-233. Ref. Feb.10,1951. 389.8 J82
- 45471 LEE, A. E. How to beat the feed shortage. Poultry Tribune 57(4):9,24-25. Apr.1951. 47.8 P8642
- 45472 MCCLYMONT, G. L., GREAVES, H., and DUNCAN, D. C. No response in egg production to feeding thyroprotein. Agr. Gaz. N. S. Wales 62:46. Jan.1,1951. 23 N472
- 45473 MULLER, W. Ersatz des tierischen eiweisses in einer praktisch gebräuchlichen kükkenration durch kondensierten fischextrakt oder ein APF-präparat. Geflügelhof 14:59-62. Jan.26,1951. 47.8 G276
- 45474 OLSSON, N. Smältbarhetsförsök med fjäderfä. Digestion experiments on poultry. Sweden. Lantbrhögsk. Husdjursförsöksanst. Meddel. 43,69 p. Ref. 1950. 104 Up62
- English summary.
- 45475 PAYNE, L. How to cut costs of growing turkeys; slower growth by cheaper gains obtained without animal protein, only grain & grasses after 20 wks. Turkey World 26(4):14-15,75-76. Apr.1951. 47.38 T84
- 45476 PEROTTI, R. M. Alimentación racional de las gallinas. Uruguay. Inst. Nac. de Colon. B. Anexo 1(11):9-11. Dec.1950. 282.29 Ur8
- 45477 PIJUAN, M. La alimentación y su influencia en la puesta y salud de las gallinas. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Almanaque Agr. de la Repub. Dominicana 1951:76-77. 1950? 8 D714
- 45478 RAIMO, H. F., and ROCHA, G. L. DA. Contribution to a study of substitutes for wheat bran in poultry nutrition: I. Adlay. (In Portuguese.) B. de Indús. Anim. (n.s.)11:85-95. June 1950. 49 R324
- English summary.
- 45479 RAMOS, F. T. A comparative study of two rations for growing chicks. Philippine Agr. 33:250-256. Apr./June 1950. 25 P542
- 45480 ROSCOE, C. Small duckling fattening plant. 2-3. Poultry [London] 108:73,132. Jan.23, Feb.13,1951. 47.8 P869
- 45481 RUSSELL, W. C., TAYLOR, M. W., and PRICE, W. A., JR. Retention of essential amino acids by growing chicken. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):392-393. Mar.1951. 442.9 F31P
- 45482 SLINGER, S. J., and others. The influence of animal protein factor supplements and antibiotics on the incidence and severity of white feathers in turkeys. J. Nutr. 43:345-355. Ref. Mar.10,1951. 389.8 J82
- K. M. Gartley, W. F. Pepper, and D. C. Hill, joint authors.
- 45483 STABLER, S. P. Recommendations for establishing Ladino clover pasture for poultry. Md. Poultry Ybk. 1951:17. 47.9 M36
- 45484 SYKES, G. More room in the yard. Farmers Wk. [London] 34(12):42. Mar.22,1951. 10 F2226
- Animal protein foodstuffs in poultry nutrition.
- 45485 THAYER, R. H. Feeding antibiotics to chicks. Flour & Feed 51(11):38. Apr.1951. 298.8 F66
- 45486 VAN REEN, R., TAYLOR, M. W., and RUSSELL, W. C. The vitamin A requirement of the turkey poult fed a purified diet. J. Nutr. 43:235-244. Ref. Feb.10,1951. 389.8 J82

# Veterinary Medicine

- 45487 AMICH GALI, J. El "caponaje qufmico" de los pollos. Rev. Ganad. [Habana] 11(4):13-16. Apr.1951. 49 R321
- 45488 AXWORTHY, R. Ailments and diseases of the young bird. 4-6. Poultry [London] 108:207,230,251. Mar.13-27,1951. 47.8 P869
- 45489 BEARD, J. W., and others. Purification and characters of the virus of avian erythro-myeloblastic leucosis. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):401. Mar.1951. 442.9 F31P
- D. Beard, E. A. Eckert, D. G. Sharp, and T. Z. Csáky, joint authors.
- 45490 BEAUDETTE, F. R. Infectious bronchitis and Newcastle disease. Canad. J. Compar. Med. 15:65-71. Mar.1951. 41.8 C162
- 45491 BENBROOK, S. C. What can be the matter with your poultry? Mo. Rur. 92(6):16-17. Mar.24,1951. 6 R8891
- Disease prevention and control.
- 45492 BOHREN, B. B. A sex-linked nervous disorder in the fowl and its linkage relationship. (Abs.) Genet. Soc. Amer. Rec. 19:89. 1950. 442.9 G28
- 45493 COLE, R. K. What can poultrymen do about leucosis. East. States Coop. 27(4):16-17. Apr.1951. 280.28 Ea7
- 45494 COMBS, G. F. What about antibiotics? Md. Poultry Ybk. 1951:35. 47.9 M36
- 45495 COX, B. F. Newcastle disease is controllable by early vaccination of flocks. Patron 11(8):5. Feb.1951. 280.28 P27
- 45496 DANNEEL, R., and GÜTTES, E. Über das verhalten der mitochondrien bei der mitose der mesenchymzellen des hühnerembryos. Naturwissenschaften 38:117-118. Mar.1,1951. 474 N213
- 45497 DAVIS, C. R. Variant pullorum problem. Md. Poultry Ybk. 1951:99. 47.9 M36
- 45498 DE VOLT, H. M. New drug effective against blackhead of turkeys. Md. Poultry Ybk. 1951:97. 47.9 M36
- Enheptin.
- 45499 DIXIT, S. G. Salmonellosis in chickens (A field and laboratory study of an outbreak). Indian Vet. J. 27:281-283. Jan.1951. 41.8 In2
- Salmonella anatis.
- 45500 DOBSON, N. Mesures de police sanitaire pour lutter contre les pestes aviaires. Off. Internatl. des Epiz. B. 35:15-19. Jan./Feb.1951. 41.8 Of2
- Great Britain.



- 45501 DOBSON, N. Vaccination contre la maladie de Newcastle. Off. Internatl. des Epiz. B. 35:30-31. Jan./Feb.1951. 41.8 Of2
- 45502 DORSEN, C. A. VAN, and ROEPKE, W. J. On a Salmonella pullorum infection in chicks in which the carrier could not be demonstrated with the usual antigen suspensions (standard + variant). (In Dutch.) Tijdschr. v. Diergeneesk. 76:47-67. Ref. Jan.15,1951. 41.8 T431 English summary.
- 45503 DUFOR, R. Maladies des poussins et des jeunes. Défense Agr. de la Beauce et du Perche 48:109. Mar.3,1951. 14 D36
- 45504 FARMER, R. K. Infectious enterohepatitis (blackhead) in turkeys: a study of the prophylactic and therapeutic value of certain compounds. J. Compar. Path. & Ther. 60:294-310. Ref. Oct.1950. 41.8 J82
- 45505 FLÜCKIGER, G. État de la peste aviaire en Europe. Off. Internatl. des Epiz. B. 35:12-14. Jan./Feb. 1951. 41.8 Of2
- 45506 FORTNER, J. La peste aviaire en Allemagne; recherches et lutte contre la maladie. Off. Internatl. des Epiz. B. 35:20-25. Jan./Feb.1951. 41.8 Of2
- 45507 FORTNER, J. Über den stand der hühnerpest in Deutschland, ihre erforschung und bekämpfung. Deut. Wirtzflügelzucht. 3:193-195. Jan.27,1951. 47.8 D483
- 45508 FOSTER, C. Can the fancy make up FP losses? Poultry [London] 108:154. Feb.20,1951. 47.8 P869
- Mortality from Newcastle disease.
- 45509 GORDON, R. V. Breeding poultry resistant to fowl pest. Smallholder 84(2128):14-15. Mar.2,1951. 10 Sml
- 45510 HESS, La prophylaxie de la peste aviaire en Suisse. Off. Internatl. des Epiz. B. 35:26-28. Jan./Feb. 1951. 41.8 Of2
- 45511 HUTT, F. B. The control of fowl paralysis. (Sum.) Brit. Vet. J. 107:28-35. Ref. Jan.1951. 41.8 V643
- 45512 JULL, M. A. Eliminating "barebacks" from the broiler industry. Md. Poultry Ybk. 1951:13,15. 47.9 M36
- Feathering.
- 45513 JUNGHER, E. L., and LUGINBUHL, R. E. Report on poultry respiratory disease control program for 1950 and suggestions for 1951. Conn. (Storrs) Agr. Expt. Sta. INF-22,6 p. Jan.1951. 100 C76V
- 45514 KALUSCH, A. Die bekämpfung der geflügelpest in Österreich von 1946 bis ende 1950. Wien. Tierärztl. Monatsschr. 38:141-146. Mar.1951. 41.8 T345
- 45515 LEE, C. D. You can control Newcastle disease. Poultry Tribune 57(4):10-11,31. Apr.1951. 47.8 P8642
- 45516 LEPESHINSKAÏA, O. P. Development of biological structures in the albumen of poultry egg. (In Russian.) Akad. Nauk SSSR. Izv. Ser. Biol. 1950(5):102-109. Sept./Oct.1950. 511 Sa2B
- 45517 LINDEMAN, V. F., and BURLINGTON, H. Effect of DDT on cholinesterase activity of blood plasma of White Leghorn cockerels. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):85. Mar.1951. 442.9 F31P
- 45518 MCGINNIS, J., and others. Evidence for an unidentified growth factor for chicks and turkeys in products of animal origin. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):387-388. Mar.1951. 442.9 F31P
- L. R. Berg, J. R. Stern, and J. S. Carver, joint authors.
- 45519 MACHADO, R. S. Coccidiosis in poultry and its treatment. (In Portuguese.) Gaz. do Agr. 2:295-297. Dec.1950. 24 G25
- 45520 MACHLIN, L. J., DENTON, C. A., and BIRD, H. R. Effect of vitamin B<sub>12</sub> and folic acid on glycine toxicity in the chick. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):388. Mar.1951. 442.9 F31P
- 45521 MASHTALER, G. A. Effect of foreign albumen on poultry development. (In Russian.) Priroda 39(10): 65-66. Oct.1950. 410 P933
- Experiments with eggs of Rhode Island and Leghorn hens.
- 45522 MITSCHERLICH, E. Eine präzipitatvaccine gegen geflügelcholera. Monatsh. f. Prakt. Tierheilk. (n.s.):2:288-302. Ref. 1950. 41.8 M74
- 45523 MORNET, P., ORUE, J., and BACHIR, S. Sur une enzootie de maladie de Newcastle à Dakar. Soc. de Path. Exot. B. 43:649-652. 1950. 448.9 So13
- 45524 MORRIS, D. M. The influence of thyroid hormone and androgen on comb growth in the White Leghorn cockerel. Endocrinology 48:257-263. Mar.1951. 448.8 En2
- 45525 MOULTHROP, I. M. Thoughts for the broiler producer. Md. Poultry Ybk. 1951:95. 47.9 M36
- Disease control.
- 45526 NOVELO LOPEZ, A. M. Newcastle. Campo [Guadalajara] 19(13):11. Jan.1951. 8 G76 Mexico.
- 45527 PICK, F. Sur l'étiologie de la péricardite exsudative de la poule domestique au cours du paludisme experimental a Plasmodium gallinaceum Brumpt 1935. Soc. de Path. Exot. B. 43:544-545. 1950. 448.9 So13
- 45528 PODGORODETSKII, N. P., DOROSHKO, I. N., and SADOVSKAIA, L. I. Fowl pox—diphtheria in turkeys. (In Russian.) Veterinarif 27(11):25-28. Nov.1950. 41.8 V6426
- 45529 POMEROY, B. S. Is the turkey industry ready for a paratyphoid control program? Minn. Gobblers 5(10): 11,20. Mar.1951. 47.38 M66
- 45530 PRÜGELHOF, F. Erfahrungen über die geflügelpestbekämpfung. Wien. Tierärztl. Monatsschr. 38:29-38. Jan.1951. 41.8 T345
- 45531 ROBB, T. R. Poultry parasites or poultry profits. Wyo. Stockman-Farmer 57(4):23. Apr.1951. 6 W992
- 45532 ROY, J. B. Attention à la coccidiose! Avicult. Québécois 6(3):16-17. Mar.1951. 47.8 Av55
- 45533 ROY, J. B. La coccidiose, maladie insidieuse qui cause chaque année de lourdes pertes dans les poulailers. Terre de Chez Nous 23(5):10. Mar.28,1951. 7 T27 Canada.
- 45534 ROY, J. B. Le maintien de l'hygiène dans la poussinière. Avicult. Québécois 6(3):4-5. Mar.1951. 47.8 Av55
- 45535 SCHAPER, G. Kapaunisieren mit synthetischen follikelhormonen unter besonderer berücksichtigung von rasse und haltung. Deut. Tierärztl. Wchnschr. 58:85-88. Ref. Mar.15,1951. 41.8 D482
- 45536 SCHOENE, W., and DANNEEL, M. Über lahmheiten beim geflügel. Monatsh. f. Vetmed. 6:90-92. Mar.1,1951. 41.8 M742
- 45537 SCOZZAFAVA, F. G. Canker—its cause and treatment. Canker by moldy feed. How canker affects pigeons and proper treatment of the disease. Amer. Pigeon J. 40:98. Apr.1951. 47.8 Am35
- 45538 SHELLABARGER, C. J., and BRENNEMAN, W. R. The effects of pinealectomy on young White Leghorn cockerels. Ind. Acad. Sci. Proc. (1949)59:299-302. 1950. 500 In2
- 45539 TRET'IAKOV, N. P. Some problems of duck embryonic development during hatching by ducks and in incubator. (In Russian.) Vsesoizn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(12):39-41. 1950. 20 Ak1
- 45540 VAITSMAN, J. Coccidiosis of chicks. (In Portuguese.) Seleg. Agr. 6(57):43-44. Jan.1951. 9.2 Se4
- 45541 VANDERVORT, J. "Coxy" control in pullets and broilers. G. L. F. Week. Serv. Sched. 15(37):1. Mar. 19,1951. 280.28 G113W
- 45542 VAYSSE, J. Exposé de l'état actuel de nos connaissances sur les pestes aviaires. Off. Internatl. des Epiz. B. 35:7-11. Jan./Feb.1951. 41.8 Of2
- 45543 VAYSSE, J. Zum gegenwärtigen stand der kenntnisse über die geflügelpest. Geflügelhof 13:859-861 Dec.29,1950. 47.8 G276
- Includes Newcastle disease.
- 45544 VOSS. Bekämpfung von wurmbefall bei geflügel. Landfrau 1951(8):1-2. In Landwirtsch. Weser-Ems 98(8). Feb.22,1951. 18 L2345
- 45545 WEST, G. Odd, humorous facts crop up about poultry. Would you ever guess once-upon-a-time hens had teeth? Mo. Rur. 92(6):10-11. Mar.24,1951. 6 R8891
- 45546 WINTER, A. R. Using medication in feeds. Feed Bag 27(2):15,94. Feb.1951. 389.78 F32
- Poultry.
- Similar title in Grain & Feed J. Consolidated 106(2):19-20. Jan.24,1951. 298.8 G762
- 45547 ZARROW, M. X. The effect of methyl folic acid on the alkaline phosphatase of the oviduct of chicks. (Abs.) Ind. Acad. Sci. Proc. (1949)59:298. 1950. 500 In2
- 45548 ZUYDAM, D. M. Investigation on the transmission of the Newcastle disease by wild rats. (In Dutch.) Tijdschr. v. Diergeneesk. 76:237-242. Mar.15,1951. 41.8 T431
- English summary.



Miscellaneous

- 45549 ACUTT, R. C. Open-air battery system for poultry. *Farmer's Wk.* [Bloemfontein] 80:49,51. Feb.28, 1951. 24 F225
- 45550 ALEXANDER, A. K. S. Some North-Midland ideas. *Farmer & Stock-Breeder* 65(3207):95. Apr.10/11, 1951. 10 F228
- Poultry farming.
- 45551 ASAMBLEA NACIONAL DE AVICULTORES. VI Asamblea Nacional de Avicultores, Madrid, junio de 1950, organizada por los avicultores encuadrados en el Sindicato Nacional de Ganadería. Madrid, 1950. 8 p. 47 As1
- 45552 BARQAY, M. Poultry keeping in the Negev. (In Hebrew.) *Hassadeh* 31:180-181. Jan.1951. 26 H27
- 45553 BASANTA, E. A. La fertilidad de los huevos. *Chacra* 21(244):44-45. Mar.1951. 9 C34
- 45554 BEVAN, L. Old deep litter for chicks; giving this a try for coccidiosis control. *Canad. Poultry Rev.* 75(4):15-16. Apr.1951. 47.8 C16
- 45555 BROOKE, D. Poultry on the general farm—home grown; is it so difficult to rear your own geese from hatching eggs? *Farmers Wk.* [London] 34(14):69. Apr.6, 1951. 10 F2226
- 45556 BROWN, T. T. Brood baby chicks right. *South. Planter* 112(3):60-61. Mar.1951. 6 So89
- 45557 BURGMEYER, J. Hinaus ins freie bei jedem wetter. *Geflügelhof* 14:22-23. Jan.12,1951. 47.8 G276
- 45558 CARROLL, H. M. The Harford County Poultry Association. *Md. Poultry Ybk.* 1951:71. 47.9 M36
- 45559 CHATTERJEE, A. Possibilities of poultry farming in Indian Union. *United Prov. Vet. Mag.* 25:35-38. Apr./July 1950. 41.8 Un3
- 45560 COLES, R. Deep litter for winter eggs. *Farmers Wk.* [London] 34(12):39. Mar.22,1951. 10 F2226
- 45561 DALTON, J. Brood them right; use method and equipment correctly for good results. *Amer. Poultry J.* 82(2):13,18. Feb.1951. 47.8 Am32
- 45562 DIEZ, F. D. Avicultura; crfa del pollito. *Gac. del Colmenar* 12(136):20-22. July 1950. 424.8 G11
- 45563 DORDIN, P. A report and interpretation of the experimental liberation from Morcenx. *Racing Pigeon* 94:60-61. Feb.24,1951. 47.28 R11
- 45564 DORION, P. A. Fonctionnement d'un poste d'abattage de la volaille. *Avicult. Québécois* 6(2):5-8.
- 45565 DRESSE, O. Geographie avicole de la Belgique. *Cour. Hort.* 13:47-48. (To be cont.) Jan.1951. 80 C834
- 45566 FLORIDA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Final report of the 24th Florida National Egg-Laying Test, by A. W. O'Steen, N. R. Mehrhof, and J. S. Moore. Gainesville, 1950? 31 p. 275.29 F66F1
- 45567 FREEMAN, E. P. Give your range newcomers a break! Statistics show the heaviest losses of the season come when poults first are moved to range. *Turkey World* 26(4):18-19,70-71. Apr.1951. 47.38 T84
- 45568 FUNK, E. M., FORWARD, J., and KEMPSTER, H. L. Effect of holding temperatures on hatchability of eggs. *Mo. Agr. Expt. Sta. B.* 539,18 p. Ref. May 1950. 100 M693
- 45569 GALLEGU PIEDRAFITA, J. Un buen programa avícola para todo el año. *B. de Divulg. Ganad.* [Valladolid] 7:302. Sept.1950. 49.9 Sp12
- 45570 GLASER, E. G. Tune-up ideas for sluggish flocks. *Amer. Poultry J.* 82(2):63-64. Feb.1951. 47.8 Am32
- Seasonal care and feeding.
- 45571 GORDEUK, A. What are the major broiler trends? *Hatchery & Feed* 25(4):10,65-66. Apr.1951. 47.8 H28
- 45572 HANSEN, R. S. Poultry litter problem. *Flour & Feed* 51(11):42. Apr.1951. 298.8 F66
- 45573 HARTSFIELD, W. N. Have more meat without a quack. *Mo. Col. Farmer* 43(5):9. Feb.1951. 6 M691
- 45574 HARVEY, J. R. The passenger. *Allot. & Home Gard.* 88:17. Feb.1951. 80 N217
- Poultry culling.
- 45575 HATCHERY AND FEED. Breeder directory. *Hatchery & Feed* 25(3):76-78,82-88,90-91,94,96-98,100-102. Mar.1951. 47.8 H28
- 45576 HAYES, J. B. A good start in life for your baby chicks means a hardy, thrifty flock. *Dairyland News* 21(3):2. Mar.1951. 280.28 W752
- 45577 HEIKENS. Qualität, die Voraussetzung für die rentabilität. *Landfrau* 1951(9):1-2. In *Landwirtbl. Weser-Ems* 98(9). Mar.1,1951. 18 L2345
- Poultry management.
- 45578 HESS, C. W. How to get more certified chicks. *Hatchery & Feed* 25(3):10,93. Mar.1951. 47.8 H28
- 45579 HUTT, F. B. Some factors confirmed with practical aspects of progeny testing. *Brit. Vet. J.* 107:97-103. Mar.1951. 41.8 V643
- Poultry.
- 45580 IGLECIA, E. N. Produccion de aves para consumo. *Rev. del Café* 6(8):9-12. Jan.1951. 8 R3295
- 45581 INSKO, W. M., JR., LOWRY, S. J., and CALDWELL, L. M. The all-pullet flock vs. the hen flock. *Ky. Agr. Expt. Sta. B.* 560,4 p. Feb.1951. 100 K41
- Egg production and mortality.
- 45582 INTERNATIONAL BABY CHICK ASSOCIATION. Who's who in the hatchery world and yearbook for 1951. Ed. 17. Kansas City, Mo., 1951. 534 p. 47.9 In83
- 45583 JOHNSON, A. S. Goose raising. *Canada. Dept. Agr. P.* 848,11 p. Nov.1950. 7 C16Pu
- 45584 JULL, M. A. New tips for turkey growers. *South. Planter* 112(3):52,54. Mar.1951. 6 So89
- 45585 JULL, M. A. Poultry husbandry. Ed. 3. New York, McGraw-Hill, 1951. 526 p. (McGraw-Hill P. Agr. Sci.) Ref. 47 J94P
- 45586 KOMENO, Y. Jozu na niwatori no kaikata [Skillful way of raising fowl]. Tokyo, Kodan-sha, 1950. 201 p. 47 K833
- 45587 KONDRATYUK, N. Poultry factory in Minsk. (In Russian.) *Mfasnaf Indus. SSSR.* 21(5):89-92. Sept./Oct.1950. 50.8 M58
- 45588 LACOURCIERE, H. L'aviculture progresse a la Bale-St-Paul. *Avicult. Québécois* 6(3):23-24. Mar.1951. 47.8 Av55
- 45589 LISSOT, G. Le pigeon. Paris, Flammarion, 1950. 221 p. (La Terre; Encyclopédie Paysanne)
- 47.2 L69
- 45590 LOMAX, E. B. Four big factors in built-up litter. *Poultry* [London] 108:148. Feb.20,1951. 47.8 P869
- 45591 MCARDLE, A. A. Efficiency in present-day poultry keeping. *So. Austral. Dept. Agr. J.* 54:287-288. Jan.1951. 23 So84
- 45592 MARYLAND STATE POULTRY COUNCIL. Maryland poultry yearbook, 1951. n.p., 1951. 104 p. 47.9 M36
- 45593 MELO, M. Cuidado de las aves en el período de muda. *Zamora. Junta Prov. de Fomento Pecuario. B.* 9(104/106):6-8. Oct./Dec.1950. 49.9 Sp13
- 45594 MONTMAGNY, C. DE. Faut-il ou non nettoyer votre poulailler? *Vie à la Campagne* 40:74-75. Feb.1951. 80 V67
- On deep litter.
- 45595 MORRIS, L. Start the poults right; no amount of good breeding and quality feeds will overcome improper management. *Norbest Turkey News* 15(9):1,3,7. Mar.1951. 47.38 N75
- 45596 MUMMA, E. Geese for fun and profit. *Pa. Farmer* 144:253,285,287,291. Mar.24,1951. 6 P383
- 45597 ONEIL, J. B. Current research projects in the Sask. poultry department. *Canad. Poultry Rev.* 75(4):12,14. Apr.1951. 47.8 C16
- From the Saskatchewan Poultry Catalogue.
- 45598 PEELE, F. E. Turkey eggs all ready for the incubator. *Mod. Poultry Keeping* 64:196. Feb.21,1951. 47.8 Ee3
- 45599 PENNSYLVANIA. DEPT. OF AGRICULTURE. BUR. OF MARKETS. R. O. P. summary report, 1949-1950. Harrisburg, 1950. 5 p. 47.9 P382
- Poultry.
- 45600 PONSIGNON, A. Des poussins vont bientôt éclore. *Vie à la Campagne* 40:72-73. Feb.1951. 80 V67
- 45601 RICE, W. H. Chicken of Tomorrow Program benefits broiler producers. *Md. Poultry Ybk.* 1951:30-31. 47.9 M36
- 45602 RIECK, H. H. The Caroline County Poultry Association. *Md. Poultry Ybk.* 1951:65. 47.9 M36
- 45603 ROY, J. B. Vos poussins sont-ils confortables? *Avicult. Québécois* 6(2):9-10. Feb.1951. 47.8 Av55
- Brooders and care.
- 45604 SAN DIEGO COOPERATIVE POULTRY ASSOCIATION. Association handbook. San Diego, Calif., 1950? 16 p. 47 Sa54
- 45605 SCHWEIZERISCHER GEFLUGELZUCHT-VERBAND. Jahresbericht 1949. Bern? 1950? 144 p. 47.9 Sch9J
- Section on general activities also in French.
- 45606 SHAW, J. Target—180 eggs per bird in forty-three weeks. *Poultry World* 88:219. Mar.8,1951. 47.8 P8682
- 45607 SHEETZ, R. S. The application of ultraviolet to poultry and livestock. *Agr. Engin.* 32:208-210. Apr.1951. 58.8 Ag83



45608 SMITH, G. W. Turkey raising in a diversified farming programme. Agr. Gaz. N. S. Wales 62:47-52. Jan.1,1951. 23 N472

45609 SNOEYENBOS, G. H. Disinfectants and elbow grease. Poultry Indus. [Boston] 55(4):9. Apr.1951. 47.8 N44

#### Poultry house sanitation.

45610 SONGCUAN, M. S. My experiences in rearing pullets. Agr. & Indus. Life 13(2):9,37. Feb.1951. 25 Ag8 At the Central Luzon Agricultural College.

45611 STRATTON, C. L. Inland ducks by the thousands. Rur. New-Yorker 101:234-235. Mar.17,1951. 6 R88

#### Management of a duck farm in Massachusetts.

45612 SWEET, M. C. Raising chickens in Ohio. Ohio. Agr. Col. Ext. B. 317,8 p. Jan.1951. 275.29 Oh32

45613 TAYLOR, J. C. Identification of the nonlayer. N. J. Agr. Expt. Sta. Hints Poultrymen 34(1),4 p. Apr. 1951. 100 N46S

45614 TAYLOR, L. W. California Experiment Station releases valuable research findings on poultry. Fla. Poultry & Dairy J. 17(4):2,4,8. (To be cont.) Apr. 1951. 47.8 F66

Similar title in Coop. Poultryman 16(4):3-4,21-23. Apr. 1951. 47.8 C782; Nulaid News 28(11):20-21,44. Apr.1951. 47.8 N917

45615 TOADVINE, N. F. The Maryland Tri-County Poultry Association. Md. Poultry Ybk. 1951:75. 47.9 M36

45616 TOMEY, A. For your convenience. Farmers Wk. [London] 34(13):69. Mar.30,1951. 10 F2226

#### Range rearing poultry.

45617 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Better meat type chickens, by H. R. Bird, C. W. Knox, and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11

45618 VONDELL, J. H. That mysterious cuticle. Poultry Indus. [Boston] 55(4):13. Apr.1951. 47.8 N44

#### Washing hatching eggs.

45619 WEAVER, L. E. It is safe to brood on litter—sometimes. Amer. Agr. 148:221. Apr.7,1951. 6 Am3

45620 WHORTON, W. J. Some points on poultry flock management. Mo. Col. Farmer 43(5):6,14. Feb.1951. 6 M691

45621 WILSON, E. At least, barnyard hens had stamina. Poultry [London] 108:150. Feb.20,1951. 47.8 P869

45622 ZUMBRO, P. B. More breeders urgently needed; big undeveloped market for breeding stock and hatching eggs awaits alert operators. Hatchery & Feed 25(3):14,79. Mar.1951. 47.8 H28

45623 ZUMBRO, P. B. ROP and ROM trends. Hatchery & Feed 25(3):80-81. Mar.1951. 47.8 H28

## RABBITS

### Breeds and Breeding

45624 BARTLETT, L. E. How to "make" the Squirrel rabbit in its blue and shaded forms. Fur & Feather 114:204. Mar.29,1951. 49 F96

45625 BARYSHNIKOV, I. A., ZAKS, M. G., and PAVLOV, E. F. Effect of maternal organism on coloration of furs of rabbit offspring under conditions of ova transplantation. (In Russian.) Akad. Nauk SSSR. Izv. Ser. Biol. 1950(6):77-96. Ref. Nov./Dec.1950. 511 Sa2B

45626 BEHRENS, M. E. Attention all Giant Chinchilla breeders. Small Stock Mag. 35(4):4. Apr.1951. 48.8 P442

45627 HALL, T. F. Twenty-two years of Argente breeding. Fur & Feather 114:187. Mar.22,1951. 49 F96

45628 HERB, T. Das märchen vom Rex-kaninchen. Kleintierzüchter Tierbörse 4(53):9. Dec.20,1950. 49 K672

45629 LECOMTE, J. L'élevage du lapin Angora au début de 1951. Rustica 24:127,132. Feb.11,1951. 14 R92

45630 MILOVANOV, V. K., and SOKOLOVSKAIA, I. I. Selective fertilization and its utilization in animal industry. (In Russian.) Karakulevodstvo i Zverovodstvo 3(5): 62-66. Sept./Oct.1950. 49 K14

#### Experiments with rabbits.

45631 NESTMANN, A. Über meine erfahrungen in der Angorakaninchenzucht. Kleintierzüchter Tierbörse 4(53):7-8. Dec.20,1950. 49 K672

45632 PIGGOTT, J. Progress of the Beveren. Fur & Feather 114:185. Mar.22,1951. 49 F96

45633 REYNOLDS, O. R. Culling Champagnes. Small Stock Mag. 35(4):5. Apr.1951. 48.8 P442

45634 ROBINSON, R. Genetical aspects; colour of the Lynx-Rex rabbit. Fur & Feather 114:157,165. Mar.8, 1951. 49 F96

45635 SIMS, I. H. What interests Angora growers most? Angora Rabbit Mag. 6(5):1,10. Mar.1951. 40.28 An42

45636 TANINAKA, O. Angora yoto juni-ka-getsu [Angora rabbit raising all the year]. Tokyo, Toyokan Shuppansha, 1950. 175 p. 40.2 T152

### Feeds and Feeding

45637 HOULDSON, E. Rabbits—organically grown. Small Stock Mag. 35(4):3. Apr.1951. 48.8 P442

#### Value of green feed.

45638 TEMPLETON, G. S. Feeding and managing does for commercial fryer production. Standard Rabbit J. 24(6):3-5. Mar.1951. 40.28 St2

#### Also in Amer. Small Stock Farmer 35(7):4,8. Apr.1951. 48.8 J82

### Veterinary Medicine

45639 COHEN, S. G., FRANKE, F. R., and KARLSON, E. L. Studies on the mechanism of fatal anaphylaxis in the rabbit. J. Allergy 22:160-164. Mar.1951. 448.8 J8236

45640 CURTIS, A. C., and others. Universal serologic reaction in rabbit syphilis. J. Invest. Dermat. 18: 131-154. Ref. Mar.1951. 448.8 J8292

R. J. Rowe, B. J. Baribeau, and R. L. Kahn, joint authors.

45641 HERIOT, J. E., and WESTON, S. M. Some anomalous blood vessels in the rabbit. London Zool. Soc. Proc. 120:737-741. Feb.1951. 410.9 L84P

45642 JACKSON, C. R. S. Parasitic cyst in the orbit; successful surgical removal with preservation of the eye. Brit. Vet. J. 107:35-44. Jan.1951. 41.8 V643

#### Larval stage of Taenia serialis in rabbit.

45643 JACOTOT, H., and VALLEE, A. Deuxième cas d'infection brucellique du lièvre en France. Inst. Pasteur. Ann. 80:214-215. Feb.1951. 448.3 An75

45644 MCGANN, V. G., and others. Serological changes during acute phase of anthrax infection. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):415. Mar.1951. 442.9 F31P

G. G. Wright, W. E. Jones, and J. B. Slein, joint authors.

45645 MORALES OTERO, P. La tularemia o fiebre del conejo. Rev. del Café 6(8):6. Jan.1951. 8 R3295

45646 RICHARDSON, E. C. Poor old coccy. Fur & Feather 114:154. Mar.8,1951. 49 F96

#### Rabbit coccidiosis.

45647 SANDFORD, J. C. The birth of a rabbit; why a knowledge of the changes which occur during pregnancy is vital to all breeders. Fur & Feather 114:171. Mar.15, 1951. 49 F96

45648 SAVCHUK, O. Effect of phytoncides [of garlic, onion, and horseradish] on the formation of agglutinins. (In Russian.) Priroda 39(10):54. Oct.1950. 410 P933

Experiments on rabbits which were immunized with paratyphoid B vaccine.

45649 THERON, B. La tularémie du lièvre et du lapin de garenne existe-t-elle en France? Les éléments du diagnostic différentiel. Paris, Foulon, 1950. 92 p. Ref. 41.2 T3422

#### Thèse - Ecole Nationale Vétérinaire d'Alfort.

### Miscellaneous

45650 HUNTER, V. H. A discussion of rabbit husbandry: purchasing stock—best breeds—housing—type of hutches—back yard rabbitry—feeding green feeds—breeding. Amer. Rabbit J. 21:35-40. Mar.1951. 40.28 Am3

45651 LIKERMAN, J. E. La cría del conejo. Argentina. Min. de Agr. y Ganad. Not. 14:63-64,79. (Cont.) Nov.30-Dec.30,1950. 9 Ar311N

45652 OLSON, E. M. Making rabbits pay. Calif. Rabbit News 11(12):7. Mar.1951. 40.28 C12

45653 STEINER, F. Unsere kaninchen priemen doch! Kleintierzüchter Tierbörse 4(53):6-7. Dec.20,1950. 49 K672

45654 TEMPLETON, G. S. Sexing very young rabbits. Calif. Rabbit News 11(12):13. Mar.1951. 40.28 C12



## SHEEP AND GOATS

## Breeds and Breeding

- 45655 ABUL'KHANOV, F. KH. Some data on the effect of sheep insemination with a sperm mixture. (In Russian.) *Agrobiologiya* 1950(6):104-106. Nov./Dec.1950. 20 Ag822
- 45656 ANDERSON, R. How ewes breed in hot weather. *Farm J.* 75(5):22-23. May 1951. 6 F2212
- 45657 BAIKOV, M. I. Karakul pedigree breeding farm of Nachalo Collective Farm in Crimean Region. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(5):30-31. Sept./Oct.1950. 49 K14
- 45658 BRAILOV, S. F. Work in improving the type of Karakul sheep and quality of pelt on Dzhangel'da State Farm [Bukhara Region]. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(5):27-30. Sept./Oct.1950. 49 K14
- 45659 CAMERON, J. A. Breed Oxfords with more style. *Farming News & No. Brit. Agr.* 103:85. Jan.1,1951. 10 N82
- 45660 ENGDAL, O. T. Breeding station for Tauter sheep and Grey sheep. (In Norwegian.) *Landbrukstidende* 57:89. Jan.31,1951. 11 L236
- 45661 FLEURI, R. Les races de brebis laitières en France et le fromage de Roquefort. *Mouton* 6:13-14. Feb.1951. 45.8 M86
- 45662 FRIEDLAENDER, M. H. G., and RANDALL, J. T. An electron microscope study of ram spermatozoa. *Conf. Electron Micros. Proc.* 1949:127-130. 1950. 440.9 C76
- 45663 LES GRANDES races ovines françaises; les races laitières. *Mouton* 6:21. Feb.1951. 45.8 M86
- Lacaune, Pyrenees (Basquaise and Bearnaise), and Corsican.
- 45664 HENDERSON, J. R. Going back with Dorsets. *Sheepman* 21:412,431. Apr.1951. 45.8 Sh32
- 45665 KEEPING, G. S. A review of progress recorded in the up-grading and breeding of pedigree imported and local goats. *Malayan Agr. J.* 34:32-39. Jan.1951. 22.5 F312
- 45666 KUZNETSOV, M. P. Causes of sterility in Karakul sheep and possibilities of eliminating them. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(5):7-13. Sept./Oct.1950. 49 K14
- 45667 MCFARLANE, P. Fat lamb breeding on Lower Eyre Peninsula. *So. Austral. Dept. Agr. J.* 54:206. Nov. 1950. 23 So84
- 45668 MALYSHEV, P. P. To improve the technique of conducting the mating of Karakul sheep. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(5):13-18. Sept./Oct. 1950. 49 K14
- 45669 NOBLE, M. Just where are we heading? *Farming News & No. Brit. Agr.* 103:59. Jan.1,1951. 10 N82
- Blackface sheep.
- 45670 RUTHERFORD, G. C. North country Cheviots. *Farming News & No. Brit. Agr.* 103:64. Jan.1,1951. 10 N82
- 45671 SÆLAND, J. Breeding stations for Tauter sheep and for Trønder Grey sheep. (In Norwegian.) *Landbrukstidende* 57:10. Jan.3,1951. 11 L236
- 45672 TAYLOR, J. Breeding vs. mating. *Idaho Farmer* 69:202. Mar.15,1951. 6 G282
- Goats.
- 45673 YOUNG, W. Border Leicesters, are they better or worse? *Farming News & No. Brit. Agr.* 103:81. Jan. 1,1951. 10 N82
- 45674 ZELLER. Aperçu sur les conditions de l'élevage aux Etats-Unis. *Colon Franç. de Tunisie (ser.7)44*, i.e.61(2182):1,3. Jan.27,1951. 24 C712
- Sheep and cattle breeding.

## Feeds and Feeding

- 45675 BUÝLOV, S. V., KATKOVA, M. M., and KOTLENKO, N. I. On the quality of pelts of Karakul lambs in connection with their mothers' nutrition during the pregnancy period. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(5):18-26. Sept./Oct.1950. 49 K14
- 45676 DRAPER, H. H., and JOHNSON, B. C. Thiamine deficiency in the lamb. *J. Nutr.* 43:413-422. Ref. Mar.10,1951. 389.8 J82
- 45677 HOAGLAND, R., and others. Supplemental value of certain amino acids for lamb protein and nutritive value of protein in different cuts of lamb. *J. Nutr.* 43:423-430. Mar.10,1951. 389.8 J82
- N. R. Ellis, O. G. Hankins, G. G. Snider, and R. L. Hiner, joint authors.
- 45678 JOURDAIN, C. Le maïs dans l'alimentation des moutons. *Mouton* 6:15-17. Ref. Feb.1951. 45.8 M86

- 45679 LINNENKOH, K. Schnellmast der Lämmer. *Neue Mitt. f. die Landwirt.* 6:202-203. Mar.31,1951. 18 N39
- 45680 MAGNUM, M. On the other side of the fence. *Natl. Wool Grower* 41(4):10-11. Apr.1951. 45.8 N21N
- Fenced vs. unfenced ranges for sheep.
- 45681 SÆLAND, J. Pasture season for sheep in the coast districts. (In Norwegian.) *Landbrukstidende* 57:66. Jan.24,1951. 11 L236
- 45682 SCHAFFHUTUNG in der kälteren jahreszeit. *Deut. Landwirt. Presse* 74:32. (Concl.) Feb.3,1951. 18 D482
- 45683 WEBB, C. New pastures boost Australia's sheep yield. *Natl. Wool Grower* 41(4):16-17,40. Apr. 1951. 45.8 N21N

## Veterinary Medicine

- 45684 BENZIE, D. X-ray diagnosis of pregnancy in ewes. *Brit. Vet. J.* 107:3-6. Jan.1951. 41.8 V643
- 45685 BURKSER, G. V. "Baskak" of pregnant ewes. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(5):67-69. Sept./Oct.1950. 49 K14
- Vitamin A deficiency disease.
- 45686 COPPINI, R. The outbreak of sheep pox in the Province of Latina. (In Italian.) *Zooprofilassi* 5:560-569. Dec.1950. 41.8 Z72
- 45687 DAVIES, J. The blood supply of the mesonephros of the sheep. *London Zool. Soc. Proc.* 120:95-112. Ref. May 1950. 410.9 L84P
- 45688 DAVIES, J., and DAVIES, D. V. The development of the mesonephros of the sheep. *London Zool. Soc. Proc.* 120:73-93. Ref. May 1950. 410.9 L84P
- 45689 DELPY, L. P., RAFYI, A., and MIR CHAMSY, H. Recherches sur l'immunisation anticlaveuse. I-II. *Acad. Vét. de France. B.* 24:50-61. Jan.1951. 41.9 R24
- I, Sur la vaccination en un seul temps contre la clavelée et la fièvre charbonneuse, avec des antigènes vivants, associés et stabilisés, p.50-55; II, Sur un nouveau vaccin tissulaire formolé, p.56-61.
- Sheep.
- 45690 DENECKÈRE, A. Entéro-toxémie des petits ruminants. Paris, Foulon, 1950. 84 p. Ref. 41.2 D413
- Thèse - Ecole Nationale Vétérinaire d'Alfort.
- Sheep and goats.
- 45691 DODIER. La strongylose ovine ou anémie d'été. *Almanach Agr. Tunisien* 1951:275-276. 24 A6
- 45692 DUFOUR. Sur le désinfection des étables et le traitement des abcès du mouton. *Défense Agr. de la Beauce et du Perche* 48:79-80. Feb.17,1951. 14 D36
- 45693 EREMIN, V. M. A-avitaminosis in Karakul ewes during the pre-parturition period. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(5):69-70. Sept./Oct. 1950. 49 K14
- 45694 FOGGIE, A. Suspected bracken poisoning in sheep. *Vet. Rec.* 63:242. Mar.31,1951. 41.8 V641
- 45695 FONTANELLI, E. The most important parasitic disease of sheep in Lazio. (In Italian.) *Zooprofilassi* 6:28-39. Jan.1951. 41.8 Z72
- English summary.
- Haemonchus contortus*, *Chabertia ovis*, *Moniezia* spp., etc.
- 45696 GRAY, M. L., STAFSETH, H. J., and THORP, F., JR. A four-year study of listeriosis in Michigan. *Amer. Vet. Med. Assoc. J.* 118:242-252. Ref. Apr.1951. 41.8 Am3
- In sheep and cattle.
- 45697 GREIG, J. R. Scrapie in sheep. *J. Compar. Path. & Ther.* 60:263-266. Oct.1950. 41.8 J82
- 45698 GRUNSELL, C. S. Marrow biopsy in sheep. I. Normal. *Brit. Vet. J.* 107:16-23. Ref. Jan.1951. 41.8 V643
- 45699 IÁKOVLEV, S. Á. Surgical method for control of coenurosis in sheep. (In Russian.) *Veterinariya* 27(11): 47-48. Nov.1950. 41.8 V6426
- 45700 INNES, J. R. M. Nervous disease of domesticated animals caused by filaria (*Setaria digitata*). *Vet. Med.* 46:192-193. Ref. May 1951. 41.8 M69
- Affects sheep, goats, and horses in Japan and Korea.
- 45701 LEDOUX, G. Complications du part chez la chèvre. Paris, Foulon, 1950. 48 p. 41.2 L4927
- Thèse - Ecole Nationale Vétérinaire d'Alfort.
- 45702 MCEWEN, A. D., STAMP, J. T., and LITTLEJOHN, A. I. Enzootic abortion in ewes. II. Immunisation and infection experiments. *Vet. Rec.* 63:197-201. Mar.17,1951. 41.8 V641



45703 MURA, D. Abortion in goats with serious parasitic infestations (*Haemonchus contortus* and *Oesophagostomum radiatum*). (In Italian.) *Zooprofilassi* 6:81-84. Ref. Feb.1951. 41.8 Z72

English summary.

45704 PÄLSSON, P. A. Dysentery in lamb. (In Icelandic.) *Freyr* 46:46-47. Feb.1951. 11 F89

45705 REDA, H., and HATHOUT, A. F. The hematologic examination of the blood of sheep under physiologic and pathologic conditions. *Amer. Vet. Med. Assoc. J.* 118:253-255. Apr.1951. 41.8 Am3

45706 ROBINET, A. H. Un cas d'intoxication strychnique traité avec succès par le chloral. *French West Africa. Insp. Gén. de l'Elevage. B. des Serv. de l'Elevage et des Indus. Anim.* 3(2/3):35-37. Apr./Sept. 1950. 41.9 F88B

In a goat.

45707 ROEMMELE, O. Cephalothoracopagus vom lamm. *Tierärztl. Umschau* 6:103-104. Mar.1951. 41.8 T445

45708 ROEMMELE, O. Malignes hämangio-endotheliom in der leber und milz eines schafbockes und hämangiomasose bei hühnerlebern. *Deut. Tierärztl. Wchnschr.* 58:9. Jan.1,1951. 41.8 D482

45709 SCHAUDER, W. Die blutgefäße des euters der ziege. *Tierärztl. Umschau* 6:77-81. Ref. Mar.1951. 41.8 T445

45710 SCHNEIDER, F. L. Status of sheep scabies in New Mexico. *N. Mex. Stockman* 16:81-82. Jan.1951. 49 N462

45711 SCHULZ, Ein beitrage zur kasuistik der azaleenvergiftung. *Deut. Tierärztl. Wchnschr.* 58:54. Feb.15,1951. 41.8 D482

Goats poisoned by Pontic azalea (*Rhododendron luteum*).

45712 SENZE, A. Lactation in a goat. (In Polish.)

*Med. Weter.* 6:735. Dec.1950. 41.8 M463

45713 SINGH, B. Mange in goats. *United Prov. Vet. Mag.* 25:43-44. Apr./July 1950. 41.8 Un3

45714 THOMSON, G. G. Pulpy kidney disease or infectious enterotoxaemia of lambs. *Canterbury Chamber Com. Agr. B.* 256,3 p. Nov.1950. 23 C162

45715 THORNTON, H. Rupture of the oesophagus in lambs. *Vet. Rec.* 63:223. Mar.24,1951. 41.8 V641

45716 WILSON, D. R., ANDERSON, R. D., and SMITH, W. Studies in scrapie. *J. Compar. Path. & Ther.* 60:267-282. Oct.1950. 41.8 J82

#### Miscellaneous

45717 BATTLE, N. The poor man's cow. *O. A. C. Review* 63:228,230. Jan.1951. 276.8 On8

Goats.

45718 INSULANDER, N. Meeting of Scandinavian sheep consultants in Norway. (In Swedish.) *Svenska Färelseför. Tidskr.* 30:143-147. Sept.1950. 45.9 Sv2

45719 LACEY, J. J. Keep young lambs alive. *Wis. Coop. Wool Growers News* 16(8):4. Mar.1951. 280.28 W882

45720 LEVACHER, Le mouton tendre. *Défense Agr. de la Beauce et du Perche* 48:78-79. Feb.17,1951. 14 F86

45721 MAHAL, G. S., and BURNS, R. H. Weathering of wool. *Natl. Wool Grower* 41(4):12-13,31-32. Apr.1951. 45.8 N21N

45722 MARTIN ABRIL, F. J. Rebaños. *B. de Divulg. Ganad. [Valladolid]* 7:267-270. Sept.1950. 49.9 Sp12

45723 PROULX, J. R. Préparons une belle "récolte" d'agneaux. *Terre de Chez Nous* 23(4):10. Mar.21,1951. 7 T27

45724 RUSSELL, M. How about a farm flock? *Colo. Rancher & Farmer* 5(6):1,6. Mar.24,1951. 6 C714

Management of a sheep farm.

45725 TAYLOR, L. Just call producers if sheep need shears. *Natl. Live Stock Prod.* 29(7):8. Apr.1951. 280.38 N21

45726 WARNER, E. A. Master fundamentals first.

*Sheepman* 21:427-428. Apr.1951. 45.8 Sh32

Sheep shearing technique.

#### SWINE

##### Breeds and Breeding

45727 BAADE, G. A. Gleichmässige dauerleistungen in der schweinezucht. *Neue Mitt. f. die Landwirt.* 6:84-85. Feb.10,1951. 18 N39

45728 BECKMAN, H. J. Good rustlers—Tamworths breed well, produce lean, flavorful meat economically. *West. Livestock J.* 29(16):190. Feb.15,1951. 6 F2278

45729 CANADIAN SWINE BREEDERS' ASSOCIATION. Canadian national record for swine, v. 61. Yorkshire, Berkshire, Chester White, Tamworth, Hampshire, Poland China, Duroc Jersey, and Large Black. Owen Sound, Richardson,1950. 803 p. 46.9 D71

45730 CAROLIS, V. DE. The "Duroc" red swine. (In Italian.) *Italia Agr.* 88:66-73. Feb.1951. 16 It1

45731 FORREST, A. J. The Essex pig. *Estate Mag.* 51:17-21. Jan.1951. 10 Es8

45732 GLASER, G., and JOSI, W. Kleinviehhaltung, schweine, ziegen, schafe. *Zollkufen, Oekonomische und Gemeinnützige Gesellschaft des Kantons Bern*,1950. 32 p. 40 G46

45733 LABOUCHERE. Opinions on the improvement of our swine breeds. II. (In Dutch.) *Plattelands-Post* 7(5):4. Feb.3,1951. 12 P69

45734 LANTY, H. L. DE. Les qualités des porcs de race anglaise. *Rustica* 24:111. Feb.11,1951. 14 R92

Yorkshire and Berkshire.

45735 LYBROOK, P. Breeders' associations.

*Chester White J.* 41(3):5-6. Mar.1951. 46.8 W582

45736 MENEUGH, H. You are your breed's keeper.

*Poland China World* 38(3):11-12. Apr.1951. 46.8 Sw62

45737 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Stepping up bacon production. IX. Premium boars on farms. North. Ireland. *Min. Agr. Mon. Rpt.* 25:331-334. Mar.1951. 256.13 Ag82M

45738 ROYAL DUBLIN SOCIETY. Herd book of Irish Large White pigs, v. 47. Dublin,1951. 224 p. 46 R81

45739 TRULSSON, G. Prominent boar lines in swine breeding. (In Swedish.) *Skand. Kreatursförsäkringsbol. Månadsbl.* 28:127-129,143-144. Nov.-Dec.1950. 49.9 Sk1

45740 WINTERS, L. M. What do they mean? Inbred, crossbred, hybrid, in-cross. *Grain & Feed J. Consolidated* 106(7):23. Apr.11,1951. 298.8 G762

Swine.

45741 YOUNG, E. L. Only one for the Danes. *Farmers Wk. [London]* 34(15):57. Apr.13,1951. 10 F2226

The Landrace breed of swine.

45742 ZELER. Enseignements d'une mission aux États-Unis. *Colon Franç. de Tunisie (ser.7)* 44,i.e.61 (2184):3;(2185):3;(2187):3. Feb.10-17,Mar.3,1951. 24 C712

Swine and horse breeding.

#### Feeds and Feeding

45743 AXELSSON, J., and ERIKSSON, S. The availability of the method of determination by difference of the effect of individual feeds; some treatments of the data of European metabolic experiments with growing pigs. *Sweden. Lantbrhögsk. Ann.* 17:161-203. Ref. 1950. 104 Up6

45744 BAY, C. Having swine troubles?? New wonder drugs may be the answer to many problems. *Mo. Col. Farmer* 43(5):8-9,13. Feb.1951. 6 M691

Vitamin B<sub>12</sub> and antibiotics in swine rations.

45745 BREIREM, K., and HUSBY, M. Experiments with silage of boiled and raw potatoes for swine. (In Norwegian.) *Norsk Landbr.* 17:89-93. (Concl.) Mar.2,1951. 11 N8122

45746 COOPER, M. M., and DUNKIN, A. C. Only half the meal is needed. *Dairy Farmer* 24(4):35. Apr.1951. 44.8 D1414

Swine feeding.

45747 CRANE, F. M. Trace minerals for swine.

*Feedstuffs* 23(12):46-48. Mar.24,1951. 286.81 F322

45748 CUNHA, T. J. Antibiotic effect may differ.

*Duroc News* 25(4):36. Apr.1951. 46.8 N212

Swine nutrition.

45749 DAMMERS, J. Graanmeel als noodzakelijke aanvulling bij het voederen van gestoomde aardappelen aan mestvarkens. I. De betekenis der B-vitaminen [L'importance des vitamines B de la farine de blé pour l'alimentation des pommes de terre cuites aux porcs].

Boxtel, Centraal Veevoederbureau in Nederland,1950. 20 p. Ref. 389.7 D18

French summary.

45750 DAVIDSON, H. R. Fodder beet for pigs. *Farmers & Stock-Breeder* 65(3206):100-101. Apr.3/4,1951. 10 F228

45751 GALTON, L. Meat-making "wonder" drugs; if you raise hogs or poultry for meat, the way a spoonful of antibiotic supplement puts extra-growth magic in a ton of feed may well be the most important news you'll read all year. *Country Gent.* 121(4):21,109-112. Apr.1951. 6 C833

45752 GIULIANI, R. Nutritive requirements and feeding of swine. (In Italian.) *Riv. di Zootec.* 23:341-344. (To be cont.) Nov.1950. 49 R52



- 45753 GOLDSTEIN, S. Die bedeutung des ballastes als nahrungsfaktor dargestellt anhand von untersuchungen am wachsenden schwein. Zürich, Juris-Verlag, 1950. 150 p. Ref. 389.7 G57
- 45754 GRANT, R. Fodder beet helps the pig meal ration. Grower [London] 35:653. Mar. 31, 1951. 286.83 M34
- 45755 GREENSLADE, J. A. Balanced rations for all your pigs. Smallholder 84(2130):23. Mar. 16, 1951. 10 Sml
- 45756 GYLES, R., and HICKS, W. H. Swine feeding experiments. Canada. Dept. Agr. P. 852,16 p. Nov. 1950. 7 C16Pu
- 45757 HIRSCHFELD, W. K., and PLANK, G. M. VAN DER. A.P.F. tests with pigs. (In Dutch.) Tijdschr. v. Diergeneesk. 76:212-225. Ref. Mar. 15, 1951. 41.8 T431 English summary.
- 45758 KLEIN, J. El engorde económico de los cerdos. Campo [Guadalajara] 19(4):13. Apr. 1951. 8 G76
- 45759 PHILIPP, H. Schweinemast in den USA. Deut. Landwirt. Presse 74:60. Mar. 3, 1951. 18 D482
- 45760 RICHARDSEN. Milokorn und kartoffeln als derzeitige kohlehydratgrundlage intensiver schweinemast. Neue Mitt. f. die Landwirt. 6:153. Mar. 10, 1951. 18 N39
- 45761 SCHAFFER, A. Schweineweideln. Neue Mitt. f. die Landwirt. 6:103-104. Feb. 17, 1951. 18 N39
- 45762 STEINBACH, M. Erprobte futterbeispiele in der ferkelfütterung. Neue Mitt. f. die Landwirt. 6:185. Mar. 24, 1951. 18 N39
- 45763 TEAGUE, H. S., and CARPENTER, L. E. The demonstration of a copper deficiency in young growing pigs. J. Nutr. 43:389-400. Mar. 10, 1951. 389.8 J82
- 45764 TESTONI, R. The nutritive value of green grass meal in pig nutrition. (In Italian.) Riv. di Zootec. 23:360-361. Nov. 1950. 49 R52
- 45765 VESTAL, C. M. Plant protein for swine. Grain & Feed J. Consolidated 106(7):27,30-31. Apr. 11, 1951. 298.8 G762
- 45766 WILLIAMS, S. G. Greenfeed replaced by vitaminized oil for growing pigs. So. Austral. Dept. Agr. J. 54:280-282. Jan. 1951. 23 So84
- Veterinary Medicine**
- 45767 BRILL, J., and SZYNKIEWICZ, Z. Selective substratum for the cultivation of the microorganism
- 45768 COLE, C. G., and HENLEY, R. R. Preservation of hog cholera virus at low temperatures. Vet. Med. 46:180-183. May 1951. 41.8 M69
- 45769 DALE, C. N., and others. Variations (variants) of hog cholera virus. Amer. Vet. Med. Assoc. J. 118:279-285. May 1951. 41.8 Am3
- H. W. Schoening, C. G. Cole, R. R. Henley, and M. R. Zinober, joint authors.
- 45770 DOYLE, L. P. Pig killer; fast-spreading transmissible gastro-enteritis is wiping out the entire pig crop for many farmers. Successful Farming 49(4):162,164-165. Apr. 1951. 6 Su12
- 45771 DUBROVSKAIA, I. I. Antigens of Brucella suis—separation, clearing and chemical analysis. (In Russian.) Biokhimiia 15:490-494. Ref. Nov./Dec. 1950. 385 B523
- 45772 ELAM, F. L. How to save more pigs. West. Livestock J. 29(16):39,191-192. Feb. 15, 1951. 6 F2278
- Care at farrowing time.
- 45773 GANEV, A. I. Results of testing Glukhovtsev's aluminum hydroxide formol vaccine against swine erysipelas. (In Russian.) Veterinariia 27(11):29. Nov. 1950. 41.8 V6426
- 45774 HARNACH, R. Virusological studies on swine influenza and Klobouk's disease. (In Polish.) Med. Weter. 6:653-656. Nov. 1950. 41.8 M463
- Teschen disease (?).
- 45775 HECKE, F. Auswertung und praktische bedeutung von schutzimpfungen gegen ansteckende schweinelähmung. Wien. Tierärztl. Monatsschr. 38:147-158. Mar. 1951. 41.8 T345
- 45776 HECKE, F. Untersuchung über die epidemiologie der ansteckenden schweinelähmung (Teschenkrankheit). Wien. Tierärztl. Monatsschr. 38:80-89. Feb. 1951. 41.8 T345
- 45777 HORSTMANN, D. M. Teschen disease (viral encephalomyelitis of swine). (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):410. Mar. 1951. 442.9 F31P
- 45778 KLOBOUK, A. Biologic properties of the virus of Teschen disease. (In Polish.) Med. Weter. 6:509-515. Sept. 1950. 41.8 M463
- English summary.
- 45779 LØJE, K., and BING, J. Dehydration with uraemia in suckling sows. Nord. Vetmed. 3:247-254. Mar. 1951. 41.8 N813
- 45780 LÜTJE, F. Nochmals über differentialdiagnostische und fleischbeschauliche beobachtungen beim rotlauf der schweine. Tierärztl. Umschau 6:97-101. Ref. Mar. 1951. 41.8 T445
- 45781 MALINGIEWICZ, C. A case of a mixed form of swine fever and swine erysipelas. (In Polish.) Med. Weter. 6:737. Dec. 1950. 41.8 M463
- 45782 MALINGIEWICZ, C., and PRUSKI, A. Cases of the obliteration of the small intestine in pigs. (In Polish.) Med. Weter. 6:737. Dec. 1950. 41.8 M463
- 45783 MELANDER, Y. Polyploidy after colchicine treatment of pigs. (Abs.) Hereditas 37:288-289. 1951. 442.8 H42
- 45784 NATIONAL RESEARCH COUNCIL. COMMITTEE ON ANIMAL HEALTH. The hog cholera problem in the United States. Amer. Vet. Med. Assoc. J. 118:227-228. Apr. 1951. 41.8 Am3
- W. A. Hagan, chairman.
- 45785 PARNAS, J., and others. Studies on the haemolytic Bact. coli isolated from piglets. (In Polish.) Med. Weter. 6:717-721. Dec. 1950. 41.8 M463
- W. Kunicki-Goldfinger, S. Stepkowski, Z. Lorkiewicz, and T. Dąbrowski, joint authors.
- 45786 REBER, E., WHITEHAIR, C. K., and MACVICAR, R. Nitrogen metabolism of hogs infected with hog cholera virus. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):235-236. Mar. 1951. 442.9 F31P
- 45787 SAPHIR, O., and LOWENTHAL, M. Changes in the endocardium of pigs simulating the rheumatic stigmata of man. Amer. J. Path. 27:211-229. Ref. Mar./Apr. 1951. 448.8 Am39
- 45788 SCHNEIDER, V. One-shot cholera vaccination gives pigs immunity without danger of bringing cholera into your herd. Successful Farming 49(4):120,122. Apr. 1951. 6 Su12
- 45789 SERVETTAZ, J. Entérite hémorragique du porc. Acad. Vét. de France. B. 24:66-69. Jan. 1951. 41.9 R24
- 45790 STIFT, K. Versuche zur hormonalen unterdrückung der brunst bei schweinen ("hormonale kastration"). Wien. Tierärztl. Monatsschr. 38:168-170. Mar. 1951. 41.8 T345
- 45791 WIMMER, F. X. Die staatliche entschädigung schweine, welche auf behördliche anordnung wegen ansteckender schweinelähmung getötet wurden. Wien. Tierärztl. Monatsschr. 38:171-172. Mar. 1951. 41.8 T345
- 45792 WOLFFRAM, N. Misserfolge bei der impfung mit rotlauf-adsorbatimpfstoffen und ihre vermeintlichen ursachen. Tierärztl. Umschau 6:95-96. Ref. Mar. 1951. 41.8 T445
- Miscellaneous**
- 45793 BEHR, R. Infrarotstrahler zur ferkelaufzucht? Neue Mitt. f. die Landwirt. 6:122. Feb. 24, 1951. 18 N39
- 45794 BROOKS, E. W. Training and grooming needed in getting pigs ready for the show. Farmer & Stock-Breeder 65(3207):97-98. Apr. 10/11, 1951. 10 F228
- 45795 COFFEY, J. S. Elements of successful swine production. Berkshire News 16(6):6,17. Apr. 1951. 46.8 B454
- Good breeding stock, equipment, sanitation, feed.
- 45796 FONTAN, J. M. Cría práctica del cerdo. Agr. Costarricense 9:11-16,18-23,25-27. (Cont.) Jan. 1951. 8 Ag895
- 45797 GARCÍA L., H. El ganado porcino en Antioquia. Ganado 3(21):61. Oct. 1950. 49 G153
- 45798 JOHNSTON, G. W. What pays the best; bacon hog or meat hog? (In Afrikaans.) Landbouweekblad 32(1648):19. Feb. 14, 1951. 24 L232
- 45799 LEDERLE LABORATORIES. RESEARCH DEPT. The baby pig problem. Chester White J. 41(3):3-4. Mar. 1951. 46.8 W582
- 45800 LYBROOK, P. Pigs to be grown and not "burned up." Chester White J. 41(4):11-12. Apr. 1951. 46.8 W582
- 45801 LYBROOK, P. What will be your average on pigs per litter? Chester White J. 41(3):4-5. Mar. 1951. 46.8 W582
- 45802 MOYA, D. R. Consejos a los criadores de cerdos. Ecuador. Segunda Zona. Cám. de Agr. B. 4(19):15-16. Oct./Dec. 1950. 9.5 Ec95B
- 45803 RADFORD, J. How I manage a pig and make it pay. Smallholder 84(2131):23. Mar. 23, 1951. 10 Sml



- 45804 SMITH, W. W. What standard should be used in judging show barrows? Chester White J. 41(4):3. Apr.1951. 46.8 W582
- 45805 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Save those baby pigs, by J. Zeller, H. W. Schoening, and M. Bliss. Washington, 1951. 4 p. 1.914 R2R11
- 45806 VAN CLEVE, R. Winter pigs are paying off. Ill. Agr. Assoc. Rec. 29(4):8-9. Apr.1951. 6 IL62 Management.

## ENTOMOLOGY

## GENERAL

- 45807 BURR, M. Field notes from Anatolia. VIII. Tahtali and Burdur. Ent. Rec. & J. Variation 63:14-16. Feb.1951. 421 En89
- 45808 DARLOW, H. M. Insects taken at sea in 1949. Entomologist 84:36-39. Feb.1951. 421 En8
- 45809 DUNCAN, W. The private life of the Protozoa, and of their neighbors, the Metazoa and the insect larvae. New York, Ronald, 1950. 141 p. (Humanizing Sci. Ser.) 411 D913
- 45810 GLEN, R. Trends in research in the Division of Entomology [Department of Agriculture, Canada]. Canad. Ent. 83:62-68. Mar.1951. 421 C16
- 45811 GUPPY, R. Remarks on killing methods. Lepidopterists' News 4:73. 1950. 421 L554
- 45812 HASSAN, A. A. G. The classification and evolution of the spiracular system in insects. Soc. Fouad 1er d'Ent. B. 34:299-305. 1950. 420 Eg9
- 45813 HIESTAND, W. A., and STEMLER, F. W. Rapidly acquired tolerance to decompression in insects. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1): 63-64. Mar.1951. 442.9 F31P
- 45814 JONES, J. R. E. A further ecological study of the River Rheidol: the food of the common insects of the main-stream. J. Anim. Ecol. 19:159-174. Ref. Nov. 1950. 410 J826
- 45815 MAKINO, S. An atlas of the chromosome numbers in animals. Ed. 2, rev. and enl. Ames, Iowa State Col. Press, 1951. 290 p. 442 M282
- Includes insects.
- 45816 RAO, D. S. A simple type of insect olfactometer. Indian J. Ent. 11:71-75. June 1949, pub. Dec. 1950. 420 In23
- 45817 REMINGTON, C. L. The nomenclature controversy—a reply. Lepidopterists' News 4:68. 1950. 421 L554
- 45818 VIAUD, G. Travaux récents sur la physiologie sensorielle des insectes (H. Autrum et son école). Ann. Biol. 54:635-651. Ref. Nov.1950. 442.8 An7
- 45819 WIGGLESWORTH, V. B., and BEAMENT, J. W. L. The respiratory mechanisms of some insect eggs. Q. J. Micros. Sci. 91:429-452. Ref. Dec.1950. 440.8 Q2
- 45820 ZANDEN, G. V. D. Insects in house and garden. (In Dutch.) Natura 48:9-13. Jan.1951. 410 N2192
- 45821 ZHUKOV, N. M., and KRASIKOVA, V. I. On immunity in insects. (In Russian.) Pchelovodstvo 27: 470-474. Sept.1950. 424.8 P295

## GENERAL - ECONOMIC

- 45822 ABELSON, S. M., and HENDERSON, A. T. Moth ball poisoning. U. S. Armed Forces Med. J. 2:491-493. Mar.1951. 159 Un3
- Naphthalene.
- 45823 APPLE, J. W. Insect control on peas and sweet corn. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:157-161. 81 V52
- 45824 BARRO RUBIER, M. El trabajo de atomizar las plantas, ha de ser rápido y seguro. Campo [Guadalajara] 19(4):12. Apr.1951. 8 G76
- Insecticides.
- 45825 BECKHAM, C. M. Summary of cotton insect research highlights in 1950 - in the Southeast. Cotton Insect Control Conf. Proc. 4:38-39. 1950. 423.9 C82
- 45826 BENDER, G. L. The mode of action of certain chlorinated hydrocarbons on insects. Mich. U. Micro-film Abs. 11:88-89. 1951. 241.8 M58
- 45827 BERG, P. W. Laboratory tests on the toxicity of technical DDT, DDT isomers and analogues, and DDD. Ind. Acad. Sci. Proc. (1949)59:157-163. Ref. 1950. 500 In2
- Tests with *Drosophila melanogaster*, *Crematogaster lineolata*, *Megilla fuscilabris*, and *Epicauta vittata*.
- 45828 BERNIS, F. Pajaros insectívoros; los chotacabras. Badajoz, Diputación Prov. B. de Inform. Agr. y Ganad. 8(82):20-22. Nov./Dec.1950. 15 B14
- 45829 BERZAGHI, M. N. Which is the most dangerous of the cotton pests? (In Portuguese.) Rev. dos Mercados 1(4):59-62. Dec.1950. 286.8 R328
- Insect pests.
- 45830 BISHOPP, F. C. Importance of using proven practices and materials in 1951. Cotton Insect Control Conf. Proc. 4:46-48. 1950. 423.9 C82
- 45831 BREAKKEY, E. P. Bulbs and their bugs. Northwest Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:8-12. 1950. 81 N817
- 45832 BRITO-BABAPULLE, L. A. P. An antidote for D.D.T. poisoning—a record of 35 cases seen. Brit. Vet. J. 107:106-122. Mar.1951. 41.8 V643
- Riboflavin used on poisoned dogs.
- 45833 BRUNNER, S. C., and VALDES BARRY, F. Insectos enemigos del boniato. Agrotecnia 5:20-24. Jan./Feb.1951. 8 Ag825
- 45834 CALHOUN, S. L. Aerial equipment and techniques for applying insecticides to cotton crops. Cotton Insect Control Conf. Proc. 4:52-57. 1950. 423.9 C82
- 45835 CANDURA, G. S. Flora and fauna in harmony; on the use of synthetic organic products and phosphoric esters in fruit culture. (In Italian.) Campagnolo 5(12):4-6. Dec.1950. 16 C15
- Insecticides.
- Similar title in Almanacco Agr. (1951)62:59-68. 1950. 16 AL6
- 45836 CAPPLEMAN, L. J. Insect control in a balanced cotton production program. Cotton Insect Control Conf. Proc. 4:21-25. 1950. 423.9 C82
- 45837 CHADWICK, C. E. Abnormal insect numbers. I. Victorian Nat. 67:178-183. Jan.3,1951. 410 V66
- 45838 CHEREPANOV, A. I. Insects—pests of the riparian tree belts of Tuva. (In Russian.) Lesn. Khoz. 3 (9):87-88. Sept.1950. 99.8 L5622
- 45839 COCHRAN, J. H., and others. Peach pest control in South Carolina. Clemson Agr. Col. S. C. Ext. C. 360,16 p. Feb.1951. 275.29 So8E
- R. J. Ferree, H. H. Foster, and W. C. Nettles, Joint authors.
- 45840 COTTON INSECT CONTROL CONFERENCE, 4, MEMPHIS, 1950. Hazards and precautions in the use of insecticides. Acco Press 29(3):20-21. Mar.1951. 6 Ac2
- 45841 COTTON INSECT CONTROL CONFERENCE, 4, MEMPHIS, 1950. Insecticides for control of cotton insects in 1951. Acco Press 29(3):14-19. Mar.1951. 6 Ac2
- 45842 CONTROLLING cotton insects in Texas this year. Acco Press 29(3):32-33. Mar.1951. 6 Ac2
- 45843 CROOKE, M. Entomological notes. Scot. Forestry 5:3-5. Jan.1951. 99.8 Sco3
- 45844 DAVEY, J. T. Review of entomological work in Nigeria, 1935-1948. Farm & Forest 10:10-18. Ref. 1950. 24 F226
- 45845 DAVIAULT, L. Les ravageurs des cônes. Forêt et Conserv. 3(2):69-72. (To be cont.) Feb.1951. 99.8 F792
- Insect pests.
- 45846 DAVIDOW, B., HAGAN, E. C., and RADOMSKI, J. L. A metabolite of chlordane in tissues of animals. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1): 291. Mar.1951. 442.9 F31P
- 45847 DAVIS, J. M. A vibratory apparatus for producing drops of uniform size. U. S. Bur. Ent. & Plant Quar. ET-295,2 p. Apr.1951. 1.9 En83Et
- 45848 DEAY, H. O. The possibilities of ultrasonics in insect control. (Abs.) Ind. Acad. Sci. Proc. (1949)59: 156. 1950. 500 In2
- 45849 DECKER, G. C. A practical field control program for corn insects. Canner 112(15):14,16-18. Apr.14, 1951. 286.83 C16
- 45850 DITMAN, L. P. Is one spray effective to kill corn insects? Food Packer 32(4):56-57,60-61. Apr.1951. 286.83 C165



- 45851 DOGGER, J. R., and FENTON, F. A. Cotton insect control tests, 1950. Okla. Agr. Expt. Sta. Mimeog. C. M-213, 6 p. Feb. 1951. 100 Ok4M
- 45852 EATON, C. B., and SECREST, J. P. A laboratory spray chamber for producing deposits of limited drop size. U. S. Bur. Ent. & Plant Quar. ET-293, 6 p. Mar. 1951. 1.9 En83Et
- 45853 EDMONTON, W. E. Biological approach: this spraying problem. Fruit-Grower 2876:235-236. Feb. 8, 1951. 80 F941
- Insecticides.
- 45854 EDWARDS, G. R. Insect pests of vegetable crops. IV. Insect pests of peas. So. Austral. Dept. Agr. J. 54:195-199. Nov. 1950. 23 So84
- 45855 FITZHUGH, O. G., and NELSON, A. A. Comparison of chronic effects produced in rats by several chlorinated hydrocarbon insecticides. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1, pt. 1):295. Mar. 1951. 442.9 F31P
- 45856 FJELDDALEN, J. Dahlia pests. (In Norwegian.) Gartneryrket 41:135-136. Feb. 24, 1951. 80 G1938
- 45857 FJELDDALEN, J. Røykemidler mot skadedyr i veksthus. Insecticidal smokes against insect pests in greenhouses. Norway. Stat. Plantevern. Meld. 6, 20 p. 1951. 86 N83
- English summary.
- Also in Gartneryrket 41:51-57. Jan. 27, 1951. 80 G1938
- 45858 FLUKE, C. L. Codling moth superseded in 1950 by other important apple insect pests. Wis. Hort. 42:136. Mar. 1951. 80 W752
- Conotrachelus nenuphar, Rhagoletis pomonella, and Argyrotaenia velutinana.
- 45859 FRANZ, J. Neue forstentomologische forschungen in Canada. Anz. f. Schädlingk. 24:37-39. Mar. 1951. 421 An9
- 45860 GAINES, J. C. Beneficial insects' role in cotton insect control. Acco Press 29(3):22-24. Mar. 1951. 6 Ac2
- 45861 GAINES, J. C. Economical cotton insect control stems from many years of research. West Tex. Today 32:6. Mar. 1951. 286.8 W522
- 45862 GAINES, R. C. Summary of cotton insect research highlights in 1950 - in the Mid-South. Cotton Insect Control Conf. Proc. 4:40-41. 1950. 423.9 C82
- 45863 GALLOWAY, A. G. Disinfestation of fruits and vegetables by heat and cold. In American Society of Refrigerating Engineers. Refrigerating data book, ed. 3, p. 247-249. New York, 1951. 295.9 Am32Ref
- 45864 GEISSLER, H. Ueber schäden im anschluss an die verwendung von hexachlorcyclohexanpräparaten und über die vermeidung solcher schäden. Deut. Tierärztl. Wchnschr. 58:97-98. Ref. Apr. 1, 1951. 41.8 D482
- Toxicity to livestock; contamination of meat and milk.
- 45865 GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Insecticides for flue-cured tobacco. Ga. Coastal Plain Expt. Sta. Mimeog. Paper 71, rev. 2 p. Jan. 1951. 100 G292M
- 45866 GEORGIA. COASTAL PLAIN EXPERIMENT STATION. 1951 cotton insect control recommendations for Georgia. Ga. Coastal Plain Expt. Sta. Mimeog. Paper 2, rev. 4 p. Jan. 1951. 100 G292M
- 45867 GLAESEL, H. 100 per cent results from spraying Coniferae at Hörsholm Nursery. (In Danish.) Gart.-Tid. 67:35-36. Jan. 24, 1951. 80 G192
- Control of pests.
- 45868 GOLDBERG, M. Wanted: more cotton, fewer pests. South. Seedsman 14(4):22, 42, 47. Apr. 1951. 61.8 So8
- 45869 GOLDBLATT, M. W. Organic phosphorus insecticides and the antidotal action of atropine. Pharm. J. 164:229-233. Mar. 25, 1950. 396.8 P49
- 45870 GONZALEZ GARCIA-GUTIERREZ, A. Los modernos insecticidas de síntesis. Ion 10:718-726. (Concl.) Ref. Dec. 1950. 385 Io6
- 45871 GUNTHER, F. A., and BLINN, R. C. The DDT-type compound as source material in organic synthesis. J. Chem. Educ. 27:654-658. Ref. Dec. 1950. 381 J826
- 45872 HAEUSSLER, G. J. Tobacco insect control suggestions. Agr. Chem. 6(4):59, 61, 109-110. Apr. 1951. 381 Ag8
- 45873 HALLER, H. L. Cotton insecticide supply outlook for 1951. Cotton Insect Control Conf. Proc. 4:16-20. 1950. 423.9 C82
- 45874 HART, E. Problems in providing adequate pest control materials. Cotton Insect Control Conf. Proc. 4:10-16. 1950. 423.9 C82
- 45875 HAYDEN, B. E. Encourage them, they pay their way; birds in my growing garden. Horticulture 29:92, 114. Mar. 1951. 80 H787
- Insect control.
- 45876 HENSILL, G. S. Insecticide treatment reduces seed cost 30%. Food Packer 32(4):55, 58. Apr. 1951. 286.83 C165
- 45877 HOLMES, E. Taint? What are the facts about BHC (benzene hexachloride)? Does it taint potatoes, cereals and fruit? Farmers Wk. [London] 34(14):57. Apr. 6, 1951. 10 F2226
- 45878 HOYT, A. S. Research in cotton insect control. Acco Press 29(3):2-5, 21. Mar. 1951. 6 Ac2
- 45879 HÜTER, L. Moderne entwesungsmethoden und ihre bedeutung für die lebensmittelhygiene, unter besonderer berücksichtigung von methylbromid. I. Anz. f. Schädlingk. 24:1-4. Ref. Jan. 1951. 421 An9
- 45880 JOHNSTON, H. G. Summary of cotton insect research highlights in 1950 - in the Southwest. Cotton Insect Control Conf. Proc. 4:41-44. 1950. 423.9 C82
- 45881 JONES, M. P. Will you or insects pick your cotton? Acco Press 29(3):6-7. Mar. 1951. 6 Ac2
- 45882 KETELAAR, J. A. A., and HELLINGMAN, J. E. Chemical studies on insecticides; determination of parathion and dimethylparathion. Analyt. Chem. 23:646-650. Apr. 1951. 381 J825A
- 45883 KNOWLTON, G. F., and SORENSON, C. J. Insect control on seed alfalfa, 1951. Utah. Agr. Expt. Sta. M. S. 65, 1 p. Mar. 1951. 100 Ut1Mi
- 45884 KNOWLTON, G. F., EDGECOMBE, S. W., and SORENSON, C. J. Official Utah fruit spray recommendations for 1951. Utah. State Agr. Col. Ext. B. 228, 20 p. Mar. 1951. 275.29 Ut1
- 45885 KOMAREK, J. The different effect of entomoparasites and diseases on invasions of insects. (In Czech.) Českoslov. Akad. Zeméděl. Sborn. 23:232-237. Ref. 1950. 19.5 C332C
- English summary.
- 45886 LAACKE, E. W. Investigations and experiments in the control of herd parasites in Brazil. (In Portuguese.) Soc. Rur. Bras. Rev. 31(362):46-52. Jan. 1951. 9.2 B733
- Insect pests.
- 45887 LAAN, P. A. VAN DER. Hazards in the application of organic phosphate compounds in agriculture in Indonesia. (In Dutch.) Bergcultures 20:57, 59, 61. Feb. 1, 1951. 22.5 B45
- 45888 LAL, R. A note on the field trials of DDT on potato crop against Empoasca kerri var. motti Pruthi, Creontiades pallidif Walker and Myzus persicae (Sulzer). Indian J. Ent. 11:17-24. June 1949, pub. Dec. 1950. 420 In23
- 45889 LALATTA, F. Distilled oil base insecticides. (In Italian.) Italia Agr. 88:108-112. Feb. 1951. 16 It1
- 45890 LAVEZZINI, A. Let us protect Parma fruit culture. (In Italian.) Avvenire Agr. 59:37-39. Feb. 1951. 16 Av9
- Winter spraying for insect control.
- 45891 LIVINGSTON, A. M. New materials and methods for pest control. Pub. Works 82(3):46-47, 62, 64. Mar. 1951. 290.8 M922
- Insecticides and herbicides.
- 45892 LOUISIANA. STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE. DIV. OF AGRICULTURAL EXTENSION. Kill! cotton insects, 1951. La. Agr. Col. Ext., Ext. P. 1083, 12 p.-folder. Dec. 1950. 275.29 L93Ep
- 45893 LYLE, C., HAMNER, A. L., and MURPHREE, L. C. Cotton insect control recommendations for 1951. Miss. Agr. Expt. Sta. C. 158, 7 p. Jan. 1951. 100 M69
- 45894 MAJOR, W. A. Modern insecticides. Pharm. J. 166:4. Jan. 6, 1951. 396.8 P49
- 45895 MAJOR, W. A. Pest control by smoke bombs. Pharm. J. 165:142. (To be cont.) Aug. 26, 1950. 396.8 P49
- 45896 MAJOR, W. A. The phosphorus insecticides. Pharm. J. 165:266-267. Oct. 28, 1950. 396.8 P49
- 45897 MARKE, D. J. B., and LILLY, C. H. Smoke generators for the dispersion of pesticides. J. Sci. Food & Agr. 2:56-65. Ref. Feb. 1951. 382 So12
- Benzene hexachloride and DDT.
- 45898 MARSHALL, G. E. The control of insects in sod culture peach orchards. Ind. Acad. Sci. Proc. (1949) 59:181-184. 1950. 500 In2
- 45899 MARS LAND, H. The price of freedom. Arkady Rev. 28:15-16. Mar. 1951. 389.8 Ar4
- Pests of bakeries, including insects.



- 45900 MERRILL, L. G., JR. Injury to squash, field pumpkin and cucumber plants resulting from application of insecticides. Mich. Agr. Expt. Sta. Q. B. 33:211-217. Feb.1951. 100 M58S
- 45901 MESA SALAZAR, J. El empleo del chlordane desde el punto de vista ganadero. Ganado 3(21):62-63. Oct.1950. 49 G153
- 45902 MINNUM, E. C. Controlling insects and diseases in the home garden. Conn. Agr. Col. Ext. Folder 49,8 p. Feb.1951. 275.29 C76Ex
- 45903 MULLETT, R. P. The relation of particle size to the toxicity of DDT dusts. Ind. Acad. Sci. Proc. (1949) 59:185-196. Ref. 1950. 500 In2
- 45904 NATIONAL COTTON COUNCIL OF AMERICA. Proceedings, fourth annual Cotton Insect Control Conference, December 7 and 8, 1950, Memphis, Tennessee. Theme: Insect control in a cotton crisis. Memphis, 1950. 56 p. 423.9 C82
- 45905 NEISWANDER, R. B. Investigations of nursery insects during 1950. Ohio. Agr. Col. Ext. Nursery Notes 20(3),8 p. Mar.1951. 275.29 Oh32N
- 45906 NEW JERSEY STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. Control of insects and diseases on bush fruits. N. J. Agr. Col. Ext. Spray Calendar 46,8 p. Mar.1951. 275.29 N46Sp Sprays and dusts.
- 45907 NEW JERSEY STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. Control of insects and diseases on strawberries. N. J. Agr. Col. Ext. Spray Calendar 47,4 p. Mar.1951. 275.29 N46Sp Spraying and dusting.
- 45908 NEW JERSEY STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 1951 spraying and dusting recommendations for potatoes. N. J. Agr. Col. Ext. Spray Calendar 48,4 p. Mar.1951. 275.29 N46Sp
- 45909 NICKERSON, W. J., and RADELEFF, R. D. Effects of inhalation of chlordane vapors upon pigeons. Vet. Med. 46:184. May 1951. 41.8 M63
- 45910 O'CONNOR, B. A. Biological control of insects and plants in Fiji. Fiji. Dept. Agr. Agr. J. 21(1/2):43-54. Ref. Mar./June 1950. 25 F47Ag  
Includes a list of beneficial insects introduced into the Fiji Islands.
- 45911 PALM, C. E. Problems facing canning industry in achieving an adequate pest control program. Agr. Chem. 6(4):44-47,123,125,127. Apr.1951. 381 Ag8 Insect control.
- 45912 PAVLOVSKIĬ, E. N. Îadovitye zhivotnye Srednei azii [Poisonous animals of Middle Asia]. Stalinabad, Akademiia Nauk SSSR, Tadzhikskii Filial, 1950. 107 p. (Nauchno-Popul'naiia Biblioteka, vyp. 1) 411 P282ia  
Includes scorpions, p.51-55; spiders, p.56-63; Acarina, p.63-70; centipedes, p.70-71; and insects, p.73-103.
- 45913 PERAL, A. DA S. The need for insecticides and fungicides and equipment for their application on the farm. (In Portuguese.) Gaz. do Agr. 2:275-276. Nov. 1950. 24 G25
- 45914 PYRETHRUM outlook. Soap & Sanit. Chem. 27(3):114-115. Mar.1951. 307.8 So12
- 45915 ROARK, R. C. Scabrin, a new botanical insecticide. Soap & Sanit. Chem. 27(3):125,137. Mar.1951. 307.8 So12  
Derived from *Heliothis scabra*.
- 45916 RUFFIN, W. A. Cotton insect control in the Southeast. Acco Press 29(3):27-28. Mar.1951. 6 Ac2
- 45917 RUI, D. Rules for the winter spraying of Venetian fruit trees. (In Italian.) Informatore Agr. 7:5-6. Jan.1,1951. 281.8 In32 Insect control.
- 45918 SCHAUS, R. Spraying makes the beef come easier; fifty pounds more beef per head through spraying! West. Livestock J. 29(16):38,172-174. Feb.15,1951. 6 F2278
- 45919 SCHWABE, K., and FRIND, H. Über das Verhalten der hexachlorcyclohexane an der quecksilbertropf-elektrode. Z. f. Phys. Chem. 196:342-359. Feb.1951. 384 Z37
- 45920 SCHWABE, K., and SIEBER, H. Über die gegenseitige Löslichkeitsbeeinflussung der isomeren hexachlorcyclohexane. Chem. Tech. 3:3-4. Jan.1951. 384 C4283
- 45921 SIMON, M. L'industrie pétrolière au secours de l'élevage des bovins. Colon Franç. de Tunisie (ser.7) 60(2132):1,4. (To be cont.) Feb.18,1950. 24 C712  
Petroleum as an insecticide.
- 45922 SMIT, B. The chemical control of insect pests. Farming So. Africa 26:49-51. Feb.1951. 24 So842
- 45923 SPENCER, C. B. Insect control is a community job. Acco Press 29(3):25-26. Mar.1951. 6 Ac2
- 45924 STEINER, H. Schädlinge in haus, hof und garden. Kosmos 47:33-35. Jan.1951. 474 K842
- 45925 STEVENSON, W. A. Summary of cotton insect research highlights in 1950-in the Far West. Cotton Insect Control Conf. Proc. 4:44-46. 1950. 423.9 C82
- 45926 STILES, C. F. Cotton insect control. Okla. Agr. Col. Ext. C. 499,8 p. n.d. 275.29 Ok41C
- 45927 SUMPF, K. C. Pflanzenschutz von innen; ein neues kapitel moderner landwirtschaft. Imkerfreund 5: 222-223. Dec.1950. 424.8 Im43
- 45928 SUTER, R. C. The cost of spraying apples in 1949. N. Y. Agr. Col. Farm Econ. 178:4633-4635. Feb. 1951. 280.8 C812  
Insect and scab control.
- 45929 TALHOUK, A. S. A list of insects observed on economically important plants and plant products in Lebanon. Soc. Fouad 1<sup>er</sup> d'Ent. B. 34:133-141. 1950. 420 Eg9
- 45930 THARP, W. H. Interrelationship of insect control, defoliation and cultural practices. Cotton Insect Control Conf. Proc. 4:25-27. 1950. 423.9 C82
- 45931 TÖTH, L. Beiträge zur frage des stickstoff-stoffwechsels der insekten. Sweden. Lantbrhögsk. Ann. 17:6-16. Ref. 1950. 104 Up6  
English summary.
- 45932 TUNBLAD, B. Parasites on parasites. Useful insects in fruit culture threatened by modern pesticides. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:193-199. 86 Sv2
- 45933 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Conference Report on Cotton Insect Research and Control, Memphis, Tennessee, December 4-6, 1950. Washington? 1950. 39 p. 1.967 A2C76  
Twelve cotton-growing States cooperating.
- 45934 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Commonwealth of Australia. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 476,rev.,19 p. Mar.6,1951. 1.9 F73
- 45935 U. S. PRODUCTION AND MARKETING ADMIN. Regulations for the enforcement of the Federal Insecticide, Fungicide, and Rodenticide Act. U. S. Prod. & Mktg. Admin. Serv. & Regulat. Announc. 166,amended,17 p. Mar.1951. 1 M34S
- 45936 VIEL, G. Variation de l'effet toxique en fonction de la quantité de poudre déposée dans les poudrages insecticides. Acad. d'Agr. de France. Compt. Rend. 36: 682-684. Nov.29/Dec.6,1950. 14 P215Bc
- 45937 WALKDEN, H. H. Field infestation of ripening wheat by stored grain insects. Nowest. Miller (Milling Prod. Sect.) 245(11):3a. Mar.13,1951. 298.8 N81
- 45938 WALTON, R. R., and ASHDOWN, D. Control of insects infesting commercial greens crops in Oklahoma. Okla. Agr. Expt. Sta. Mimeog. C. M-212,8 p. Feb.1951. 100 Ok4M
- 45939 WATCH for these [cotton] insects in your field. Acco Press 29(3):18A-18H. Mar.1951. 6 Ac2
- 45940 WATTS, J. G. Soil insect control in Southeast by mixtures of pesticides & fertilizers. Agr. Chem. 6(4): 36-38,115-117. Ref. Apr.1951. 381 Ag8
- 45941 WEINER, R., and CROW, J. F. The resistance of DDT-resistant *Drosophila* to other insecticides. Science 113:403-404. Apr.13,1951. 470 Sci2
- 45942 YATES, R. T. The insecticide outlook for 1951. (Excerpts.) Acco Press 29(3):12-13. Mar.1951. 6 Ac2

#### APICULTURE AND APIS MELLIFERA

- 45943 ADDINGTON, R. Lesser problems of apiary management. Wiltshire Beekeepers' Gaz. 71:6-7. Jan./Feb.1951. 424.8 W71
- 45944 ALEKSEENKO, F. M. Experiment in using pentachlorin (DDT) at apiaries against *Senotainia*. (In Russian.) Pchelovodstvo 27:474-477. Sept.1950. 424.8 P295
- 45945 ALLBACH, R. Ja, nur wolkenkratzer und nochmals wolkenkratzer. Südwestdeut. Imker 2:352-353. Dec. 1950. 424.8 Su25
- 45946 ALTMANN, G. Ein sexualwirkstoff bei honigbienen. Z. f. Bienenforsch. 1:24-32. Oct.1950. 424.8 Z3



- 45947 AVDEEV, V. F. My practices in collecting pollen (In Russian.) *Pchelovodstvo* 27:562-563. Oct. 1950. 424.8 P295  
Feed for bees.
- 45948 AVETISIAN, G. A. To organize the wintering of honeybees without losses. (In Russian.) *Pchelovodstvo* 27:533-536. Oct. 1950. 424.8 P295
- 45949 BABAIEV, F. K. Testing the new comb foundation. (In Russian.) *Pchelovodstvo* 27:604-606. Nov. 1950. 424.8 P295
- 45950 BABICH, I. A. Supersedure of queens by the selective method. (In Russian.) *Pchelovodstvo* 27:602-604. Nov. 1950. 424.8 P295
- 45951 BAIER, H. Praktische erfahrungen mit der höselhefe. *Imkerfreund* 6:4-9. Jan. 1951. 424.8 Im43
- 45952 BAKER, C. Bees in the garden. *Anthroposophical Agr. Found. Notes & Corresp.* (n.s.):2:17-18. Autumn 1950. 10 An8
- 45953 BAKKEN, T. J. Apiculture for beginners. (In Norwegian.) *Birøkteren* 67:29-31. Mar. 1951. 424.8 B53
- 45954 BARRAJÓN, R. A. Como evitar la enjambrazón. *Gac. del Colmenar* 12(135):5-6. June 1950. 424.8 G11
- 45955 BARRAJÓN, R. A. Para aumentar la producción. *Gac. del Colmenar* 12(135):13-14. June 1950. 424.8 G11
- 45956 BEE FORAGE: three approaches to the problem. *Bee World* 32:9-14. Feb. 1951. 424.8 B399
- I. Planting herbaceous forage for bees, by F. C. Pellet, p.9-10; II, The Amsterdam Bee Park, by R. C. A. Kroes, p.10-12; III, Honey yields per acre of land, by E. E. Crane, p.12-14.
- 45957 BENAVIDES, J. Acariosis. *Gac. del Colmenar* 12(135):1-3. June 1950. 424.8 G11
- 45958 BESSONOV, K. K. High-mountain Caucasian honeybees under conditions of Siberia. (In Russian.) *Pchelovodstvo* 27:465. Sept. 1950. 424.8 P295
- 45959 BEUTLER, R. Bienenforschungen aus dem Zoologischen Institut München. III. *Imkerfreund* 6:2-4. Jan. 1951. 424.8 Im43
- 45960 BLATZ, W. Was sagt der beobachtungsdienst über die späte winterfütterung unserer bienen? *Südwestdeut. Imker* 2:348. Dec. 1950. 424.8 Su25
- 45961 BLUM, J. R. Is it desirable to substitute the Italian for the native bee race? (In Hebrew.) *Hassadeh* 31:181-183. Jan. 1951. 26 H27
- 45962 BOKKO, A. K. Senotainiasis of honeybees—a dangerous disease. (In Russian.) *Pchelovodstvo* 27:557-559. Oct. 1950. 424.8 P295
- 45963 BÖTTCHER, F. K. Bildet lehrlinge aus! Ein mahnwort an die imkermeister und alle, die es werden wollen. *Imkerfreund* 6:7-8. Jan. 1951. 424.8 Im43
- 45964 BOUCHEND'HOMME, J. C. Intoxication des abeilles par les insecticides. Paris, Foulon, 1950. 87 p. 424 B663
- Thèse - Ecole Nationale Vétérinaire d'Alfort.
- 45965 BRIER, J. H. The spring build-up. *Wiltshire Beekeepers' Gaz.* 72:15. Mar./Apr. 1951. 424.8 W71
- 45966 BROKER, W. Bienenvergiftungen durch pflanzenschutzmittel. *Südwestdeut. Imker* 2:324. Nov. 1950. 424.8 Su25
- 45967 BÜDEL, A. Die bienenphysik bringt bewewe. Erste frage: Wie wird der winterliche wärmehaushalt durch das einengen des bienenvolkes beeinflusst? *Imkerfreund* 6:5-6. Jan. 1951. 424.8 Im43
- 45968 BÜDEL, A. Der einfluss der senföl-methanol-dämpfe auf das kleinklima einer bienenwohnung. *Z. f. Bienenforsch.* 1:38-40. Jan. 1951. 424.8 Z3
- Used to combat mites in the hive.
- 45969 BÜDEL, A. Isolierung der beutenwände nach Vagn Hallund. *Imkerfreund* 5:187-188. Oct. 1950. 424.8 Im43
- 45970 BÜDEL, A. Was sagt die bienenphysik über die späte herbstfütterung unserer bienen? *Südwestdeut. Imker* 2:344-347. Dec. 1950. 424.8 Su25
- 45971 CALE, G. H. Spring build-up. *Amer. Bee J.* 91:150. Apr. 1951. 424.8 Am3
- 45972 CHAMBERLIN, N. R. Package bees by truck. *Amer. Bee J.* 91:148-149. Apr. 1951. 424.8 Am3
- 45973 CLARK, K. K. Australian costs and prices. *Wiltshire Beekeepers' Gaz.* 71:8. Jan./Feb. 1951. 424.8 W71
- 45974 CLOUT, G. A. Acarine. *Bee Craft* 33:31. Feb. 1951. 424.8 B3925
- 45975 CRANE, E. Eine gesellschaft für bienenkunde (Bee Research Association); der britische weg der zusammenarbeit von wissenschaft und praxis. *Schweiz. Bienen-Ztg.* 74:16-19. Jan. 1951. 424.8 Sch9
- 45976 DADANT, M. G. Alfalfa seed—one thousand pounds per acre. *Amer. Bee J.* 91:142-143. Apr. 1951. 424.8 Am3
- With bees as pollinators.
- 45977 DOMORATSKII, M. I. On rearing and fixing economically useful characteristics of honeybees. (In Russian.) *Pchelovodstvo* 27:462-464. Sept. 1950. 424.8 P295
- 45978 DREHER, K. Beiträge zur merkmalsuntersuchung der honigbiene. 1-2. *Z. f. Bienenforsch.* 1:17-23. Oct. 1950. 424.8 Z3
- 1, Kritische betrachtung der verfahren zur messung des flügelindex, p.17-21; 2, Die einteilung der klassen bei variationsstatistischen untersuchungen am flügelindex, p.21-23.
- 45979 DUNHAM, W. E. The Ohio modified two-queen system. *Gleanings Bee Cult.* 79:212-214. Apr. 1951. 424.8 G47
- 45980 DYCE, E. J., LAPLANT, A. A., and HOFFMAN, M. B. Suggestions for more efficient orchard pollination. *Gleanings Bee Cult.* 79:210-211, 246. Apr. 1951. 424.8 G47
- 45981 DZHANPOLADIAN, L. M. Chemical composition of birch and poplar pollen [feed for bees]. (In Russian.) *Pchelovodstvo* 27:494. Sept. 1950. 424.8 P295
- 45982 EMERY, A. U. Redwood. *Wiltshire Beekeepers' Gaz.* 71:2-3. Jan./Feb. 1951. 424.8 W71
- Wood used for making beehives.
- 45983 ERICKSON, J. F. Beekeeping in Oregon. *Mod. Beekeeping* 35:56-57, 66. Feb. 15, 1951. 424.8 B397
- 45984 FEES, H. Vom wanderstand zum wanderwagen! *Imkerfreund* 6:13-15. Jan. 1951. 424.8 Im43
- 45985 FISCHER, F. Wie werde ich imker? *Südwestdeut. Imker* 3:17. Jan. 1951. 424.8 Su25
- 45986 FORSTER, K. A. Über das bienengift. *Südwestdeut. Imker* 2:318-319. Nov. 1950. 424.8 Su25
- 45987 FOWLE, F. E. More home-grown research. *Wiltshire Beekeepers' Gaz.* 72:2-4. Mar./Apr. 1951. 424.8 W71
- 45988 FRISCH, K. VON. Orientierungsvermögen und sprache der bienen. *Naturwissenschaften* 38:105-112. Mar. 1, 1951. 474 N213
- 45989 GAIVORONSKIĬ, I. M. Handbarrow for beehives. (In Russian.) *Pchelovodstvo* 27:561-562. Oct. 1950. 424.8 P295
- 45990 GALANOV, A. M., and TROITSKAIA, N. P. How a large-scale apiary benefits the collective farm. (In Russian.) *Pchelovodstvo* 27:526-527. Oct. 1950. 424.8 P295
- 45991 GALANOV, A. M., and TROITSKAIA, N. P. Moving of honeybees to honey flow in the forest-steppe of Bashkiria. (In Russian.) *Pchelovodstvo* 27:496-497. Sept. 1950. 424.8 P295
- 45992 GEIGER, J. E. Bees apparently wintered well. *West. Canada Beekeeper* 14(4):4, 9. Apr. 1951. 424.8 W525
- 45993 GOL'TSOV, V. A. Industrial training at the apiary of our school [Sel'skokhoziaistvennaia Shkola Invalidov Otechestvennoy Volny in Riazan Region]. (In Russian.) *Pchelovodstvo* 27:456-457. Sept. 1950. 424.8 P295
- 45994 GONTARSKI, H. Duplizität der samenblase einer königin von Apis mell. *Z. f. Bienenforsch.* 1:41. Jan. 1951. 424.8 Z3
- 45995 GONTARSKI, H. Höselhefe; erfahrungen aus der praxis. *Südwestdeut. Imker* 3:34-36. (To be cont.) Feb. 1951. 424.8 Su25
- 45996 GONTARSKI, H. Über den ernährungshaushalt der winterbien. *Imkerfreund* 5:183-186. Oct. 1950. 424.8 Im43
- 45997 GRANLUND, R. The bees get water. (In Swedish.) *Bitidningen* 50:73-77. Mar. 1951. 424.8 B54
- 45998 GREENWOOD, E. Mouldy combs. *Bee Craft* 33:31. Feb. 1951. 424.8 B3925
- 45999 GRINDINGER, J. Mein kleinwanderwagen. *Imkerfreund* 5:199. Oct. 1950. 424.8 Im43
- 46000 GUILLE, E. Le miel de pommiers et la D. V. G. *Gaz. Apic.* 51:277-278. Dec. 1950. 424.8 G25
- 46001 GÜNDER, M. Die künstliche salweide. *Imkerfreund* 6:10-11. Jan. 1951. 424.8 Im43
- Supplying pollen substitutes in early spring.
- 46002 GUTNIKOVA, Z. I. Are the bees of Primorski Territory secured with a pollen harvest. (In Russian.) *Pchelovodstvo* 27:615-616. Nov. 1950. 424.8 P295
- 46003 HADDEMO, H. Hibernation of the bee colony. (In Swedish.) *Bitidningen* 50:69-73. Mar. 1951. 424.8 B54



- 46004 HAEGERMANN, H. Neue wege! Südwestdeut. Imker 3:6-8. Jan.1951. 424.8 Su25  
Use of several queens in the beehive.
- 46005 HEIDERMAN, K. Erfahrungen aus dem bienenjahr 1950. Niedersächs. Bienenfr. 1951:6-9. (To be cont.) Jan.1951. 424.8 N552
- 46006 HEROLD, K. Die schadenersatzberechnungen bei spritz-, bestäubungs- und sonstigen bienenschäden. Imkerfreund 5:199-200. Oct.1950. 424.8 Im43
- 46007 HESSBERG, H. VON. Der nestgeruch und das zusetzen von königinnen. Imkerfreund 5:227. Dec.1950. 424.8 Im43
- 46008 HIRSCHFELDER, H. Über die winterliche zehrung der bienenvölker. Imkerfreund 6:10-11. Jan. 1951. 424.8 Im43
- 46009 HISTORY of beekeeping equipment. 2. West. Canada Beekeeper 14(4):10-11. Apr.1951. 424.8 W525
- 46010 HOFER, P. Von der waldtrachtkrankheit 1950. Schweiz. Bienen-Ztg. 74:13-15. Jan.1951. 424.8 Sch9  
With discussion by O. Morgenthaler.  
Poisoning due to forest plants.
- 46011 HUMMEL, A. Bienenzucht als nebenbetrieb. Südwestdeut. Imker 3:16. Jan.1951. 424.8 Su25
- 46012 HUMMEL, A. Höselhefe? Höselhefe! Südwestdeut. Imker 2:356. Dec.1950. 424.8 Su25
- 46013 HUMPHREYS, E. Twenty minutes rain upset our plans. Bee Craft 33:27. Feb.1951. 424.8 B3925  
Behavior of bees following damage from flash flood.
- 46014 HUNKELER, M. Die rassenzucht im jahre 1950. Schweiz. Bienen-Ztg. 74:5-7. Jan.1951. 424.8 Sch9
- 46015 HUNKELER, M. Züchten wir richtig? Schweiz. Bienen-Ztg. 74:7-9. Jan.1951. 424.8 Sch9
- 46016 HURPIN, J. Soins a donner aux essaims. Rustica 24:186. Mar.4,1951. 14 R92
- 46017 IANUSHEVSKII, E. S. How I mark the frames in hive extension. (In Russian.) Pchelovodstvo 27:496. Sept.1950. 424.8 P295
- 46018 IOIRISH, N. P. On immunity to bee stings. (In Russian.) Pchelovodstvo 27:566-568. Oct.1950. 424.8 P295
- 46019 ISTITUTO NAZIONALE DI APICOLTURA, BOLOGNA. Control of infectious diseases of bees. 2-3. (In Italian.) Apic. d'Italia 17:223-225;18:3-5. Nov.1950, Jan.1951. 424.8 Ap372  
2, Measures for the control of acarine disease; 3, Measures for the control of nosema disease.
- 46020 JAMIESON, C. A. Pollination and agriculture. West. Canada Beekeeper 14(4):8-9. Apr.1951. 424.8 W525
- 46021 JANCKE. Honigbienen als obstschädlinge. Südwestdeut. Imker 3:36. Feb.1951. 424.8 Su25
- 46022 KAESER, W. Die faulbrut ist nicht ausgestorben! Südwestdeut. Imker 3:9. Jan.1951. 424.8 Su25
- 46023 KAESER, W., and KAESER, H. Prüfung von chemischen bekämpfungsmitteln gegen die milbenseuche. Südwestdeut. Imker 3:31. Feb.1951. 424.8 Su25
- 46024 KAZANTSEV, N. F. Cleansing flight of bees in a room. (In Russian.) Pchelovodstvo 27:630. Nov.1950. 424.8 P295
- 46025 KELLEY, W. T. For more seed use strong bee colonies. Country Gent. 121(4):105-106. Apr.1951. 6 C833
- 46026 KERR, W. E. Sex-chromosome in honey-bee. Evolution 5:80-81. Ref. Mar.1951. 443.8 Ev62
- 46027 KILLION, C. E. Honey in the comb. Paris, Ill., 1951. 114 p. 424 K55
- 46028 KNOWLTON, G. F. Protect bees during fruit pest control operations. Utah. State Agr. Col. Ext. M. S. 63,1 p. Mar.1951. 275.29 Ut1Ms
- 46029 KOMAROV, S. P., and KRAINEV, S. P. Control of foulbrood diseases of honeybees. (In Russian.) Pchelovodstvo 27:624-625. Nov.1950. 424.8 P295
- 46030 KOPTEV, V. Summer mortality of honeybees and measures for its control. (In Russian.) Pchelovodstvo 27:552-557. Oct.1950. 424.8 P295  
Caused by poisonous plants.
- 46031 KORABLEV, I. I. On teaching apiculture in colleges. (In Russian.) Pchelovodstvo 27:454-455. Sept. 1950. 424.8 P295
- 46032 KORIAKOV, F. M. Method for formation of new colonies. (In Russian.) Pchelovodstvo 27:560-561. Oct.1950. 424.8 P295
- 46033 KOVALEV, A. M. At the apiaries in Kalinin Region. (In Russian.) Pchelovodstvo 27:583-588. Nov. 1950. 424.8 P295
- 46034 KRAMER, U. Rassenzucht der schweizer imker. Neu hrsg. im auftrage des Vereins Deutsch-Schweizerischer Bienenfreunde von Dr. M. Hunkeler. Ed. 9. Aarau, Sauerländer, 1950. 183 p. 424 K86
- 46035 KUDRIASHOV, I. I. Collective farm apiculture of Riazan Region at a new high level. (In Russian.) Pchelovodstvo 27:513-515. Oct.1950. 424.8 P295
- 46036 KULICHKOV, N. N. Experiment in group maintenance of honeybee colonies. (In Russian.) Pchelovodstvo 27:467-469. Sept.1950. 424.8 P295  
Design of beehive trailer.
- 46037 KULIEV, A. M. Honeybees and the cotton plant. (In Russian.) Pchelovodstvo 27:622-623. Nov. 1950. 424.8 P295  
Pollination.
- 46038 KULIEV, A. M. Protection of honeybees from poisoning during cotton dusting. (In Russian.) Pchelovodstvo 27:477-478. Sept.1950. 424.8 P295
- 46039 LAMMERT, A. Sonnenfinsternis und bienen. Imkerfreund 5:234. Dec.1950. 424.8 Im43
- 46040 LEPPIK, E. E. Insects' fight for survival seen in phenomenon of 'bees' struggle." Agr. Chem. 6(4):48-49. Apr.1951. 381 Ag8  
Effects of insecticides on bees.
- 46041 LUDWIG, A. Am bienenstand. Ed.13. Stuttgart, Pfenningstorf, 1950. 159 p. 424 L96A
- 46042 LUNDER, R., and VILLUMSTAD, E. The control stations in apiculture 1950. (In Norwegian.) Birøkterene 67:7-12. Jan.1951. 424.8 B53
- 46043 LÜTHI, P. Auswertung des zuchtbuches; nach dem vortrag gehalten an der Züchterkonferenz auf dem Rosenberg vom 21. bis 23. April 1950. Schweiz. Bienen-Ztg. 74:10-13. Jan.1951. 424.8 Sch9
- 46044 LYSAK, M. V. Observations on two queens in one honeybee colony. (In Russian.) Pchelovodstvo 27:495-496. Sept.1950. 424.8 P295
- 46045 MAINELLI, M. Purchase, transfer, and transportation of beehives during winter. (In Italian.) Colt. e Gior. Vinic. Ital. 97:22-24. Jan.31,1951. 16 C72
- 46046 MANN, F. B., and BAKER, C. T. G. Saturn, lead and the honey bee. Anthroposophical Agr. Found. Notes & Corresp. (n.s.):2:20-23. Autumn 1950. 10 An8  
On the lead beehive.
- 46047 MANQUAT, M. La fécondation des fleurs par les abeilles. Défense Agr. de la Beauce et du Perche 48:68-69. Feb.10,1951. 14 D36
- 46048 MAYNE, E. S. Foul brood and its origin. So. African Bee J. 25(6):7,9,11. Jan./Feb.1951. 424.8 So82
- 46049 MEDICI, M. Como iniciarse en apicultura. Gac. del Colmenar 12(135):10-12. June 1950. 424.8 G11
- 46050 MENKE, H. F. Apple pollination in Washington State. Gleanings Bee Cult. 79:201-205. Apr.1951. 424.8 G47
- 46051 MENKE, H. F. Bees and apple blossom thinning sprays. Amer. Bee J. 91:152-153. Apr.1951. 424.8 Am3
- 46052 MENTZER, J. Die gefährlichste bienenkrankheit die milbenseuche. Südwestdeut. Imker 3:32-33. Feb.1951. 424.8 Su25
- 46053 MENTZER, J. Das imkerliche jahr 1950. Südwestdeut. Imker 2:342-343. Dec.1950. 424.8 Su25
- 46054 MERCIER, D. De la nécessité de l'humidité et de l'eau dans la ruche. Gaz. Apic. 51:274-275. Dec.1950. 424.8 G25
- 46055 MIN'KOV, S. G. Syr Darya River valley as a feed supply base for beekeeping. (In Russian.) Pchelovodstvo 27:483-489. Sept.1950. 424.8 P295  
Honey plants.
- 46056 MITROPOL'SKII, A. Horizontal hive with side chest. (In Russian.) Pchelovodstvo 27:631-632. Nov. 1950. 424.8 P295
- 46057 MOISEEV, K. V. Honeybees of Southern Kazakhstan. (In Russian.) Pchelovodstvo 27:588-590. Nov.1950. 424.8 P295
- 46058 MÜLLER, H. La merveilleuse loi de la grappe, ou ma théorie et ma méthode. Ed. 2. Ibos, (Hautes-Pyrénées) 1949, i.e. 1947-50. 2 v. 424 M914
- 46059 MÜLLER, H. Le rôle du tégument de la grappe. Gaz. Apic. 51:285. Dec.1950. 424.8 G25
- 46060 MURALT, F. C. V. Beekeeping in Switzerland. Mod. Beekeeping 35:46-49. Feb.15,1951. 424.8 B397
- 46061 MUZIN, V. N., DENISOV, I. V., and KRASNOV, D. M. Apiculture on the consolidated collective farms. (In Russian.) Pchelovodstvo 27:596-597. Nov.1950. 424.8 P295



- 46062 NESTERVODSKIĬ, V. A. On supplementary feeding of honeybees in wintertime. (In Russian.) Pchelovodstvo 27:537-541. Oct.1950. 424.8 P295
- 46063 NICOLLS, J. Naturally built comb. Anthroposophical Agr. Found. Notes & Corresp. (n.s.)1:23-25. Spring 1950. 10 An8
- 46064 NIKITIN, N. A. Comb foundation with non-wax base. (In Russian.) Pchelovodstvo 27:544. Oct.1950. 424.8 P295  
Experiment with cellophane.
- 46065 PEETERS, F. J. The honey bee. (In Flemish.) Cult. en Handel 17:179-182. (To be cont.) Mar.1951. 80 C892
- 46066 PERSSON, B. What do we expect from the new year? (In Swedish.) Bitidningen 50:22. Jan.1951. 424.8 B54  
Poisoning of bees by economic poisons.
- 46067 POD'APOL'SKAIA, A. A board for stretching wires. (In Russian.) Pchelovodstvo 27:498-499. Sept. 1950. 424.8 P295
- 46068 POLHEMUS, M. S. What can we expect of hybrid bees? Gleanings Bee Cult. 79:216-217. Apr.1951. 424.8 G47
- 46069 POLTEV, V. I. P. I. Prokopovich—outstanding investigator of honeybee diseases. (In Russian.) Pchelovodstvo 27:501-504. Sept.1950. 424.8 P295
- 46070 PURSEY, M. Know your bees. XII. The breathing system. Bee Craft 33:33. Feb.1951. 424.8 B3925
- 46071 RATNIKOV, A., and others. Beekeeping on consolidated collective farms. (In Russian.) Pchelovodstvo 27:522-525. Oct.1950. 424.8 P295  
B. Ustinkin, V. Titenko, and S. K. Kirillov, joint authors.
- 46072 RAUTENBERG, H. J. Rund um den reinigungs-ausflug. Südwestdeut. Imker 3:28-30. Feb.1951. 424.8 Su25
- 46073 ROLDAN R., S. Apicultura. Gac. del Colmenar 12(136):17-19. July 1950. 424.8 G11  
Venezuela.
- 46074 ROSENBERG, H. Development of apiculture in Trøndelag. (In Norwegian.) Birøkteren 67:33-35. Mar. 1951. 424.8 B53
- 46075 ROSWALL, G. The birth of a queen bee. (In Swedish.) Bitidningen 50:44. Feb.1951. 424.8 B54
- 46076 ROUNDY, H. I was immunized. Amer. Bee J. 91:151. Apr.1951. 424.8 Am3  
Allergic reaction to bee stings cured by venom inoculations.
- 46077 ROUSSY, L. Une mycose dans un groupe de nymphes d'abeilles. Gaz. Apic. 51:272. Dec.1950. 424.8 G25
- 46078 ROWAN, H. M. A little knowledge is a dangerous thing; or, It shouldn't happen to a bee. Gleanings Bee Cult. 79:218-219,247. Apr.1951. 424.8 G47  
Beginner's experiences.
- 46079 ROZHDESTVENSKIĬ, K. M. Wooden strips instead of canvas. (In Russian.) Pchelovodstvo 27:497-498. Sept.1950. 424.8 P295  
For frame covering.
- 46080 ROZOV, S. A. Consolidation of collective farms—new stimulus for the further development of apiculture. (In Russian.) Pchelovodstvo 27:580-583. Nov.1950. 424.8 P295
- 46081 RUBTSOV, E. I. Apiculture in the North of Amur Region. (In Russian.) Pchelovodstvo 27:590-591. Nov.1950. 424.8 P295
- 46082 RUSCHEL, E. A new bee venture. (In Portuguese.) Lav. Arroz. 4(48):33-34. Dec.1950. 59.8 L39  
Brazil.
- 46083 SALA, F. Caging the queen. (In Italian.) Apic. d'Italia 17:236-237. Nov.1950. 424.8 Ap372
- 46084 SALKELD, E. H. A toxicological and histophysiological study of certain new insecticides as "stomach poisons" to the honey bee *Apis mellifera* L. Canad. Ent. 83:53-61. (Concl.) Ref. Mar.1951. 421 C16  
DDT, lead arsenate, and parathion.
- 46085 SCHILLER, J. Chemikerin biene. Niedersächs. Bienenfr. 1951:3-4. Jan.1951. 424.8 N552
- 46086 SCHMIDT, F. A. Die bienentötende schädling-bekämpfungsmittel-anwendung in die blüten—straffällige, gemeinschädliche sachbeschädigung. Südwestdeut. Imker 2:325. Nov.1950. 424.8 Su25
- 46087 SCHRÖDER, W. Die geschichtliche entwicklung des bienenstocks mit geschlossenen rahmen. Südwestdeut. Imker 2:322. Nov.1950. 424.8 Su25
- 46088 SCHUPF, W. Kann ein weiselloses volk im winter geheilt werden? Südwestdeut. Imker 2:317. Nov. 1950. 424.8 Su25
- 46089 SCHÜSSLER. Der rechtsschutz des imkers. Imkerfreund 6:19-20. Jan.1951. 424.8 Im43
- 46090 SEMENENKO, V. F. Primorski Combine of agricultural state farms—a large-scale establishment. (In Russian.) Pchelovodstvo 27:592-595. Nov.1950. 424.8 P295
- 46091 SHCHERBINA, P. S. On methods of teaching in the courses for training beekeepers en masse. (In Russian.) Pchelovodstvo 27:545-551. Oct.1950. 424.8 P295
- 46092 SHEPHERD, W. Swarm prevention without having to find the queen. Bee Craft 33:36. Feb.1951. 424.8 B3925
- 46093 SHVANVICH, V. N. Dances of honeybees and polarized light. (In Russian.) Pchelovodstvo 27:542-543. Oct.1950. 424.8 P295
- 46094 SJÖGREN, S. Heater. (In Swedish.) Bitidningen 50:56-57,59. Feb.1951. 424.8 B54  
Use of heat in rearing queens.
- 46095 STÖCKERL, P. E. Wandern auf kurze entfernungen. Imkerfreund 6:15-18. Jan.1951. 424.8 Im43
- 46096 STRATTON, C. L. Experiences of a city bound apiarist. Mod. Beekeeping 35:50-51,63. Feb.15, 1951. 424.8 B397
- 46097 STRICKER, M. H. Outyard management. West. Canada Beekeeper 14(4):5. Apr.1951. 424.8 W525
- 46098 SVERIGES BIDLARES RIKSFÖRBUND. Protokoll fört vid Sveriges Biodlares Riksförbunds möte i Örebro fredagen den 11 och lördagen den 12 augusti 1950. [Proceedings of the meeting of Sweden's Beekeeper's National Association in Örebro, Friday the 11th and Saturday the 12th of August, 1950]. 32 p. In Bitidningen 50(1). Jan.1951. 424.8 B54
- 46099 TABAKOV, A. V. For a diversified collective farm—a large-scale apiary. (In Russian.) Pchelovodstvo 27:516-518. Oct.1950. 424.8 P295
- 46100 TARANOV, G. F. Toward best conditions for queen introduction. (In Russian.) Pchelovodstvo 27:607-609. Nov.1950. 424.8 P295
- 46101 THEAKER, T. F. Mating swarms. Bee Craft 33:29-30. Feb.1951. 424.8 B3925
- 46102 TONTZ, C. Too late will produce too little. Gleanings Bee Cult. 79:206-209. Apr.1951. 424.8 G47
- 46103 TOWNSEND, G. F. Seed and fruit crops much increased by improved pollination methods. Farmer's Advocate & Home Mag. 86(3394):5,46-47. Mar.8,1951. 7 F22  
Honey bees as pollinators of fruit and legume crops.
- 46104 TROITSKAIA, E., and RESHETNIKOV, S. Honeybees and yields of alfalfa seeds. (In Russian.) Pchelovodstvo 27:622. Nov.1950. 424.8 P295
- 46105 TSELISHCHEV, G., and KURYLEVA, E. To re-examine the system of preparation of beekeepers. (In Russian.) Pchelovodstvo 27:452-454. Sept.1950. 424.8 P295
- 46106 TURSUKOV, V. K. Formation of new colonies with field honeybees. (In Russian.) Pchelovodstvo 27:560. Oct.1950. 424.8 P295
- 46107 UDRIN, N. R. Starlings do not destroy honeybees. (In Russian.) Pchelovodstvo 27:563. Oct.1950. 424.8 P295
- 46108 USENKO, N. V. To utilize more extensively the reserves of beekeeping in Khabarovsk Territory. (In Russian.) Pchelovodstvo 27:617-619. Nov.1950. 424.8 P295
- 46109 VAN TOL FILHO, P. L. Populating of an apiary. (In Portuguese.) Seleg. Agr. 6(57):21-22. Jan.1951. 9.2 Se4
- 46110 WIRTH, E. D. If you're thinking of bees. *Rur.* New-Yorker 101:220. Mar.17,1951. 6 R88
- 46111 WOHLGEMUTH, E. Die niedersachsen schau. Südwestdeut. Imker 3:10-15. Jan.1951. 424.8 Su25  
Equipment.
- 46112 WRIGHT, P. H. April in the bee yard. West. Canada Beekeeper 14(4):3-4. Apr.1951. 424.8 W525
- 46113 WRIGHT, P. H. Bees for pollination on the prairies. West. Canada Beekeeper 14(4):6-7. (Cont.) Apr.1951. 424.8 W525  
Field crops.
- 46114 ZANDER, E. Do bees damage flowers, fruit and berries? (In Swedish.) Bitidningen 50:5-8. Jan.1951. 424.8 B54
- 46115 ZANDER, E. Vom ägyptischen mumienhonig zur indischen riesenbiene [*Apis dorsata*]. Südwestdeut. Imker 2:351. Dec.1950. 424.8 Su25  
Pollen analysis of honey.



46116 ZIEGLER, R. J. The modern bee hive. *Mod. Beekeeping* 35:52-54. Feb.15,1951. 424.8 B397

46117 ZINSSTAG, V. Ein kleines erlebnis, das mir zu denken gab! Südwestdeut. Imker 2:323. Nov.1950. 424.8 Su25

Loss of queen in late fall.

# ARACHNIDA, MYRIAPODA, ETC.

46113 ANGELIER, C. La faune hydracarienne du Massif de Néouvielle. *Paris. Mus. Natl. d'Hist. Nat. B.* (ser.2)22:352-359. May 1950. 410.9 P213

Includes new species in Feltria.

46119 AUERBACH, S. I. A key to the centipedes of the Chicago Area. *Chicago Acad. Sci. B.* 9:109-114. Feb.2,1951. 500 C43B

46120 BALTAZARD, M., BAHMANYAR, M., and MOFIDI, C. *Ornithodoros erraticus* et fièvres récurrentes. *Soc. de Path. Exot. B.* 43:595-601. Ref. 1950. 448.9 So13

46121 BEACH, G. Some effects of sodium selenate on greenhouse carnations grown in gravel—second report. *Amer. Soc. Hort. Sci. Proc.* 56:423-426. Dec.1950. 81 So12

For control of *Tetranychus telarius*.

46122 BERNARD, J. Die kräuselmilbe der reben. *Bas-Rhin Agr.* 6:126. Mar.17,1951. 14 B29

*Phyllocoptes vitis* and *Epitrimerus vitis*.

46123 BOURGAIN, M. Résistance au jeûne prolongé d'une durée de 5 années des nymphes d'*Ornithodoros tholozani* avec persistance de leur pouvoir infectant à *Spirochaeta persica* Dschunkowsky, 1912. *Soc. de Path. Exot. B.* 43:692-693. 1950. 448.9 Sc13

46124 BROWN, D. G., and SANKEY, J. H. P. The harvest-spider *Nelima silvatica* (Simon) in Great Britain. *London Zool. Soc. Proc.* 119:867-871. Feb.1950. 410.9 L84P

46125 CASTRO, E. R. La garrapata y su erradicación. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 7(358): 3,13. Feb.1,1951. 9.9 G15B

*Boophilus annulatus microplus*.

46126 CICCARONE, A. A method for freeing fungous cultures from mites. (In Italian.) *Sta. di Patol. Veg. B.* (ser.3)6:129-131. 1948, pub.1950. 464.9 R662

English summary.

Parathion.

46127 CLARK, P. G. Experiments with parathion and TEPP to control red spider. *Grower [London]* 35:615, 617. Mar.24,1951. 286.83 M34

*Tetranychus*.

46128 CLOUDSLEY-THOMPSON, J. L. The water relations and cuticle of *Paradesmus gracilis* (Diplopoda, Strongylosomidae). *Q. J. Micros. Sci.* 91:453-464. Ref. Dec.1950. 440.8 Q2

46129 CONDE, B. Une Koenenia cavernicole du Montserrat (Catalogne) (Arachnides Palpigrades). *Rev. Franç. d'Ent.* 18:42-45. 1951. 421 R323

46130 CONDE, B. Révision de deux Polyxénides africains décrits par Brölemann (Diplopedes Penicillates). *Paris. Mus. Natl. d'Hist. Nat. B.* (ser.2)22:364-369. (Concl.) Ref. May 1950. 410.9 P213

46131 DENIS, J. Araignées d'Alsace. I-II. *Soc. Ent. de France. B.* 55:137-141. Nov.1950. 420 F84B

I, *Erigonides* et *Linyphiides*; II, Sur quelques *Diploena*.

46132 DENIS, J. Spiders from East and Central African mountains collected by Dr. G. Salt. *London. Zool. Soc. Proc.* 120:497-502. Ref. Nov.1950. 410.9 L84P

Includes new species and forms in *Meltoneta*, *Leptyphanes*, *Nesticus*, and *Hahnina*.

46133 DERBAL, Z., and BALIS, J. Étude comparée de différents traitements contre les tiques des bovins. *French West Africa. Insp. Gén. de l'Elevage. B. des Serv. de l'Elevage et des Indus. Anim.* 3(2/3):7-14. Apr./Sept. 1950. 41.9 F88B

*Boophilus annulatus decoloratus*, *Hyalomma* sp., *Amblyomma variegatum*.

46134 DESCHIENS, R. L'acariase de l'appareil respiratoire chez les primates et chez l'homme. *Inst. Pasteur. Ann.* 80:107-147. Ref. Feb.1951. 448.3 An75

*Pneumonyssus* spp. in monkeys; *Tarsonemidae* (*Tarsonemus* spp., *Pediculoides* ?) and *Tyroglyphidae* (*Tyroglyphus* spp., *Glyciphagus* spp., *Mealia* sp., *Carpoglyphus* sp.) in man.

46135 EADS, R. B. New mites of the genus *Androlaelaps* Berlese. *J. Parasitol.* 37:212-216. Apr.1951. 448.8 J824

46136 EASON, E. H. Notes on the Chilopoda (centipedes) of Warwickshire and Worcestershire. *Ann. & Mag. Nat. Hist.* (ser.12)4:257-268. Ref. Mar.1951. 410 An77

46137 EDMUNDS, L. R. A check list of the ticks of Utah. *Pan-Pacific Ent.* 27:23-26. Ref. Jan.1951. 421 P193

46138 ENGLISH, L. L., and STATLER, S. S. Steam-pipe fumigants show promise for the control of resistant spider mites on roses. *Florist's Rev.* 108(2785):23-27, 31. Apr.12,1951. 80 W41

*Tetranychus bimaculatus* control by p-chlorophenyl-p-chlorobenzene sulfonate.

46139 FANTHAM, H. B., and PORTER, A. The endoparasites of certain South African snakes, together with some remarks on their structure and effects on their hosts. *London Zool. Soc. Proc.* 120:599-647. Ref. Nov.1950. 410.9 L84P

Includes brief note: Lung conditions due to Arachnida (*Porocephalidae*), p.641-642.

46140 GEIER, P. Vers une lutte rationnelle contre les acariens des arbres fruitiers. *Rev. Romande d'Agr. de Viticult. et d'Arboricult.* 7:11-14. Feb.1951. 17 J82A

46141 GRANDJEAN, F. Observations sur les oribates 21 serie. I-II. *Paris. Mus. Natl. d'Hist. Nat. B.* (ser.2)22: 344-351. May 1950. 410.9 P213

I, A propos de *Phauloppia lucorum* (Koch) et de *Lucoppia burrowsii* (Mich.); II, La glande latéro-abdominale.

46142 HASSAN, A. I. The Theraphosidae in Egypt, with a description of *Chaetopelma shabati* spec. nov. (Araneae). *Soc. Fouad 1er d'Ent. B.* 34:159-171. Ref. 1950. 420 Eg9

46143 HINSCHBERGER, P. Contribution à l'étude des Symphyles du Mexique. *Paris. Mus. Natl. d'Hist. Nat. B.* (ser.2)22:370-374. (Concl.) May 1950. 410.9 P213

Includes new species in *Symphylellopsis*.

46144 HOFF, C. C. New species and records of chthoniid pseudoscorpions. *Amer. Mus. Nat. Hist. Amer. Mus. Novitates* 1483,13 p. Jan.15,1951. 500 N483N

Includes new species in *Austrochthonius* and *Tubbichthionius* n.g.

46145 HOFFMAN, R. L. The name of the common eastern spirobolid milliped. *Fla. Ent.* 34:15-16. Mar. 1951. 420 F662

*Spirobolus americanus* (Beauvois) (= *marginatus* Say).

46146 HUGHES, T. E. The embryonic development of the mite *Tyroglyphus farinae* [i.e. *Acarus siro*] Linnaeus 1758. *London Zool. Soc. Proc.* 119:873-886. Ref. Feb.1950. 410.9 L84P

46147 IT WILL pay to watch for sheep scab mite [*Psoroptes equi ovis*]. *Sheep & Goat Raiser* 31(6):38-41, 54-55. Mar.1951. 45.8 Sh3

46148 JELLISON, W. L., and others. An outbreak of tick paralysis in cattle in western Montana. *Vet. Med.* 46:163-166. May 1951. 41.8 M69

H. G. Stoenner, N. J. Kramis, and H. F. Beardmore, joint authors.

Due to *Dermacentor andersoni*.

46149 KHEISIN, E. M. In regard to the northern boundary of distribution of ticks, *Ixodes ricinus* and *I. persulcatus*, in Karelo-Finnish SSR. (In Russian.) *Zool. Zhur.* 29:572-574. Nov./Dec.1950. 410 R92

46150 LE GAC, P. Découverte d'acariens du genre *Thrombicula* [i.e. *Trombicula*] en Oubangui-Chari (A.E.F.). *Soc. de Path. Exot. B.* 43:711-714. Ref. 1950. 448.9 So13

46151 MARION, P. La gale du porc. *Porc* 22:31,33. Jan.1951. 46.8 P822

Due to *Sarcoptes scabiei* suis.

46152 MUSGRAVE, A. Spider aeronauts and gossamer web. *Austral. Mus. Mag.* 10:118-123. Dec.15,1950. 475 Au7

46153 OLENEV, N. O. New data on the effect of phytoncides of higher plants on parasitic ticks and insects. (In Russian.) *Akad. Nauk SSSR. Dok.* 75:149-151. Nov.1,1950. 511 P444A

46154 PAIN, G. Contribution à l'étude des acariens des abeilles. *Paris, Foulon, 1950.* 65 p. Ref. 424 P16

Thèse - Ecole Nationale Vétérinaire d'Alfort.

Symbiotic and parasitic mites; acarine disease.

46155 PARKER, R. R., and others. Isolation and characterization of Rocky Mountain spotted fever rickettsiae from the rabbit tick *Haemaphysalis leporispalustris* Packard. *Pub. Health Rpt.* 66:455-463. Apr.13, 1951. 151.65 P96

E. G. Pickens, D. B. Lackman, E. J. Bell, and F. B. Thraikill, joint authors.

46156 PFLUG, S. C. An emulsion of hexachlorocyclohexane for scabies. *U. S. Armed Forces Med. J.* 2:399-400. Mar.1951. 159 Un3



- 46157 PRITCHARD, A. E., and SCIARONI, R. H. Chrysanthemum pests; new chemicals promising against two-spotted spider mite [*Tetranychus bimaculatus*] and aphids. Calif. Agr. [Calif. Sta.] 3(4):10,12. Apr.1951. 100 C12Cag
- 88R (Aramite) and OMPA (octamethyl pyrophosphoramide.)
- 46158 RADFORD, C. D. A revision of the fur mites Myobiidae (Acarina). Paris. Mus. Natl. d'Hist. Nat. B. (ser.2)22:360-363. (Cont.) May 1950. 410.9 P213 Radfordia spp.
- 46159 REMO, T. The red spider (Paratetranychus pilosus C. F.). (In Italian.) Almanacco Agr. (1951)62:111-114. 1950. 16 AL6
- Fruit pest.
- 46160 SCHOENAERS, F. Liste des tiques récoltées au cours d'un voyage d'études au Congo Belge. Belgium. Min. des Colon. B. Agr. du Congo Belge 42:117-122. Mar. 1951. 24 K83
- 46161 SHERRIFFS, W. R. Some oriental spiders of the genus *Oxyopes*. London Zool. Soc. Proc. 120:651-677. Feb.1951. 410.9 L84P
- 46162 SMITH, G. L., and BRYAN, D. E. Mites on cotton; control of spider mites varies with species attacking the plants. Calif. Agr. [Calif. Sta.] 3(4):11,15. Apr. 1951. 100 C12Cag
- Tetranychus atlanticus*, *T. pacificus*, and *T. bimaculatus*.
- 46163 SOROKIN, S. V. Effect of agricultural practices on the fauna of grain mites [Tyroglyphoidea]. (In Russian.) Zool. Zhur. 29:513-522. Ref. Nov./Dec. 1950. 410 R92
- 46164 SPENCER, H., and NORMAN, P. A. Experiments on control of the citrus red mite (purple mite) [*Paratetranychus citri*]; second report. Fla. Ent. 34:3-5. Mar.1951. 420 F662
- 46165 DIE SPINNE und ihr netz. Leben u. Umwelt 7: 111-113. Feb.1951. 410 L49
- 46166 STRANDTMANN, R. W. The mesostigmatic nasal mites of birds. II. New and poorly known species of Rhinonyssidae. J. Parasitol. 37:129-140. Apr.1951. 448.8 J824
- Includes new species in Rhinonyssus and Sternostoma.
- 46167 TRENTINI, R. Grapevine acarid or Tetranychus (*Tetranychus telarius* L.). (In Italian.) Almanacco Agr. (1951)62:69-74. 1950. 16 AL6
- 46168 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Chigger [*Eutrombicula alfreddugesi*] control. U. S. D. A. L. 302,7 p. Apr.1951. 1 Ag84L
- 46169 USPENSKII, L. Tarantula spider in the forests of Ivanovo forestry site. (In Russian.) Lesn. Khoz. 3(9):89. Sept.1950. 99.8 L5622
- As predator of insects.
- 46170 WARD, G. L. An investigation in the natural history of spiders. (Abs.) Ind. Acad. Sci. Proc. (1949) 59:298. 1950. 500 In2
- 46171 WOKE, P. A. A rabbit-ear cage for blood-sucking arthropods. Pub. Health Rpt. 66:464-471. Apr.13,1951. 151.65 P96
- Used for rearing ticks and fleas.

## COLEOPTERA

- 46172 ADAMOVIĆ, Z. R. Contribution à la connaissance de l'espèce *Purpuricenus budensis* Götz. (Cerambycidae Col.). (In Serbian.) Biol. Inst. God. 2:115-119. Ref. 1949, pub.1950. 442.9 Sa73
- French summary.
- 46173 ALPATOV, V. V. Transmission of acquired characteristics to offspring as exemplified by insects. (In Russian.) Uspekhi Sovrem. Biol. 30:222-233. Ref. Sept./Oct.1950. 442.8 Er3
- Experiments with *Tribolium* and *Carausius*.
- 46174 ARVY, L., GABE, M., and LHOSTE, J. Action de quelques insecticides sur le sang du doryphore (*Chrysomela* [i.e. *Leptinotarsa*] *decemlineata* Say). Soc. Ent. de France. B. 55:122-127. Ref. Oct.1950. 420 F84B
- 46175 BALFOUR-BROWNE, F. British water beetles, v. 2. London, Ray Soc., 1950. 394 p. (Ray Soc., No. 134) 427 B192W
- Dytiscidae (Colymbetini and Dytiscini) and Gyrinidae.
- 46176 BÄNNINGER, M. Die rassen der *Nebria* (*Nebria*) *cordicollis* Chd. und ihre verbreitung. Ent. Bl. 45/46:1-9. Oct.1,1950. 421 En833
- 46177 BÄNNINGER, M. The subtribe *Pasimachina* (Coleoptera, Carabidae, Scaritini). Rev. de Ent. 21:481-511. Ref. Dec.1950. 421 R326
- New species in *Pasimachus*.
- 46178 BARBER, H. S. *Hispella* a synonym of *Hispia* Linnaeus, and a new *Dactylispa* from China (Coleoptera: Chrysomelidae). Pan-Pacific Ent. 27:17-19. Jan.1951. 421 P193
- 46179 BASILEWSKY, P. Descriptions d'*Anchoméniens* nouveaux du Muséum National d'Histoire Naturelle de Paris, (Col. Carabidae). Rev. Franç. d'Ent. 18:31-35. 1951. 421 R323
- New species in *Pseudobatenus* n.g. and *Metagonum*.
- 46180 BENICK, G. Eine neue deutsche *Lathrobium*-art. Ent. Bl. 45/46:16-18. Oct.1,1950. 421 En833
- 46181 BERTHAULT, P. La biologie du capnodie [*Capnodis tenebrionis*] et la lutte contre cet insecte. Rev. Agr. de l'Afrique du Nord 49:2-4. Jan.5,1951. 80 R326
- 46182 BOHMAN, F. E. Biology of *Gibbium psyllodes* (Czemp.). (Abs.) Ind. Acad. Sci. Proc. (1949)59: 156. 1950. 500 In2
- 46183 BONDAR, G. Entomological notes from Bafa. XXII. (In Portuguese.) Rev. de Ent. 21:449-480. Ref. Dec.1950. 421 R326
- Chiefly Curculionidae. New species in *Dinomorphus*, *Miremorphus* n.g., *Apion*, *Ancyloxyrhynchus*, *Metoposoma*, *Telemus*, *Diorymerus*, *Prodinus*, *Dioryserratus* n.g., *Trachybaris*, *Liobaridia*, *Angelocentris*, *Tripus*, *Lispodemus*, *Strongylothes*, and *Parallelosomus*.
- 46184 BORGMEIER, T. Neue gattungen und arten termitophiler Staphyliniden aus Brasilien, nebst einem katalog aller bisher aus der Neotropischen Region beschriebenen arten (Col. Staph.). Rev. de Ent. 625-676. Ref. Dec.1950. 421 R326
- New species in *Termitonilla* n.g., *Abroteles*, *Termitopelta* n.g., *Termitonusa*, *Termituncula*, *Xenogaster*, and *Termitophya*.
- 46185 BREAKEY, E. P., and BRANNON, D. Control of strawberry root weevils [*Brachyrhinus ovatus*]. Wash. State Col. Ext. C. 169,4 p. Mar.1951. 275.29 W27C
- 46186 BULLRICH, K. Frühjahrstemperaturen und apfelblütenstecherbekämpfung. Neue Mitt. f. die Landwirtschaft. 6:139-140. Mar.3,1951. 18 N39
- Anthonomus pomorum*.
- 46187 CHABOUSSOU, F., and ANGLADE, P. L'alguillonier (*Calamobius filum* Rossi) parasite des céréales dans le sud-ouest. Acad. d'Agr. Le France. Compt. Rend. 37:43-44. Jan.10/17,1951. 14 P215Bc
- 46188 CHABOUSSOU, F., ANGLADE, P., and BERJON, J. Essais de désinfection du sol contre les larves de taupins nuisibles au maïs dans le sud-ouest. Acad. d'Agr. de France. Compt. Rend. 37:39-42. Jan.10/17,1951. 14 P215Bc
- 46189 COLORADO beetles' Suffolk advent. Suffolk Nat. Soc. Trans. 7:45-46. Dec.1950. 410.9 Su2
- 46190 DITMAN, L. P., and BICKLEY, W. E. Chemical methods for controlling the Mexican bean beetle [*Epilachna varivestis*]. Amer. Fert. & Allied Chem. 114(3):35,38. Mar.1951. 57.8 Am3
- 46191 DOETSCH, J. F. The saboteur of our cotton fields. Victory Farm Forum 41:2. Mar.1951. 281.8 F226
- Anthonomus grandis*.
- 46192 EICHLER, W. Freilandmittelpfungen beim rübenderbrüssler [*Cleonus punctiventris*]. Anz. f. Schädlingsk. 24:39-40. Mar.1951. 421 An9
- 46193 ERMISCH, K. Die gattungen der Mordelliden der welt (16. beitrage zur kenntnis der Mordelliden). Ent. Bl. 45/46:34-92. Oct.1,1950. 421 En833
- Includes new species in *Phungia*, *Tomoxiodes* n.g., *Stenomordellaria* n.g., *Parastenomordella* n.g., *Austromordella* n.g., *Pseudomordellaria* n.g., *Paramordellistena* n.g., *Glipostenoda* n.g., and *Falsomordellistena*; also new genera *Pseudotomoxia*, *Tolidomordella*, *Mordellaria*, *Pseudoclonalia*, and *Pseudotolida*.
- 46194 ESPAÑOL COLL, F. Los Crypticus s. str. de la Península Ibérica y del Norte de Africa (Col. Tenebrionidae). Eos 26:115-156. Ref. July/Dec.1950. 421 Eo7
- 46195 GILMOIR, E. F. New *Onciderini* (Col., Cerambycidae, Lamiinae). Rev. de Ent. 21:537-544. Dec.1950. 421 R326
- New species in *Hypsioma* and *Oncideres*.
- 46196 GLAÇON, S., and LE MASNE, G. Une méthode d'élevage et de transport des Coléoptères cavernicoles. Acad. des Sci. Compt. Rend. 232:1027-1029. Mar.5,1951. 505 P21
- 46197 GRESSITT, J. L. The hispine beetles of China (Coleoptera: Chrysomelidae). Lingnan Sci. J. 23:53-142. 1950. 22.5 C16
- Includes new species and forms in *Lasiocilla*, *Callispa*, *Leptispa*, *Choeridiona*, *Prionispa*, *Downesia*, *Hispellinus*, *Asamangulla*, and *Dactylispa*.



- 46193 GRESSITT, J. L. Indian longicorn beetles (Coleoptera: Cerambycidae). I. Indian Forest Rec. New Ser. Ent. 8:9-11. 1950. 99.8 In22E
- 46193 GUAGLIUMI, P. Estudio preliminar sobre el escarabajo rinoceronte o "coco" *Podischnus agenor* (Oliv.) plaga de la caña de azúcar en Venezuela. Venezuela. Div. de Ent. y Zool. Secc. de la Caña de Azúcar. B. Téc. 3,48 p. Ref. Jan.15,1951. 423.92 V55
- English summary.
- 46200 GUIGNOT, F. Hydaticus nouveaux de la collection Régimbart. Rev. Franç. d'Ent. 18:21-24. 1951. 421 R323
- 46201 HASTINGS, E. Spray early to kill alfalfa weevil [*Hypera postica*]. West. Farm Life 53(7):9. Apr.1, 1951. 6 R153
- 46202 HINCKS, W. D. A note on "*Passalus cornutus Fabricius*" (Passalidae). Coleopterists' B. 5:12-13. Feb.1951. 421 C674
- Correct name: *Popilius disjunctus* (Illiger).
- 46203 HUSAIN, M. A., and KHAN, A. W. Bionomics and control of the walnut weevil (*Alcidus porrectirostris* Mshll.) (Alcidinae: Coleoptera). Indian J. Ent. 11:77-82. June 1949, pub. Dec.1950. 420 In23
- 46204 IHSEN, G. Über bodenstreununtersuchungen im rahmen der bekämpfungsmassnahmen gegen den fichtenborkenkäfer (*Ips typographus* L.). Forstwirt. Holzwirt. 4:339-341. Nov.1/15,1950. 99.8 F7793
- 46205 JARRIGE, J. Brachelytres nouveaux ou mal connus d'Indochine Française (Col.). Soc. Ent. de France B. 55:132-135. Nov.1950. 420 F84B
- New species in *Dianous*, *Philonthus*, and *Parapalaestrinus*.
- 46206 JEANNEL, R. Entomological expeditions to Abyssinia, 1926-27 and 1948-49. Coleoptera, Pselaphidae. Ann. & Mag. Nat. Hist. (ser.12):4:225-249. Mar.1951. 410 An77
- Includes new species in *Corynotopsis* n.g., *Euplectus*, *Trissemus*, *Batrisschorus*, *Eleodimerus*, *Camptomites*, *Pselaphogenius*, and *Marellus*.
- 46207 JEANNEL, R. Sur la systématique des genres de la tribu Pselaphini Raffray (Coleoptera Pselaphidae). Rev. Franç. d'Ent. 18:5-11. 1951. 421 R323
- Includes new genera *Neopselaphus* and *Pselaphidius*; also *Pselaphus* (*Pselaphinus*) n.sgen.
- 46208 JEWETT, H. H. Control of green June beetle larvae *Cotinus nitida* (L.). Ky. Agr. Expt. Sta. B. 559, 8 p. Jan.1951. 100 K41
- 46209 JOLIVET, P., and THÉODORIDES, J. Découverte d'une nouvelle espèce de *Timarcha* (Col. Chrysomelidae) sur la plage de Banyuls-s/Mer (Pyrénées-Orientales). Soc. Ent. de France. B. 55:119-120. Oct. 1950. 420 F84B
- 46210 KLEINE, R. Klapperichs China-ausbeute. II. (Lycidae und Brentidae). Ent. Bl. 45/46:21-25. Oct.1, 1950. 421 En833
- 46211 KNOLL, J. N. Two new species and one sub-species of North American Buprestidae (Coleoptera). Ohio J. Sci. 51:87-89. Mar.1951. 410 Oh3
- In *Hesperorhipis*, *Chrysobothris*, and *Agrilus*.
- 46212 KUSCHEL, G. Die gattung *Prionychus* Hust. 1939. (10. beitrage zu Col. Curculionidae). Rev. de Ent. 21:545-550. Dec.1950. 421 R326
- 46213 KUSCHEL, G. Nuevas sinonimias, revalidaciones y combinaciones (9º aporte a Col. Curculionidae). Chile. Dir. Gen. de Agr. Agr. Tec. 10:10-21. June 1950. 464.9 C432B
- English summary.
- Curculionidae from northern Chile.
- Includes new genera: *Mionarthrus*, *Malvinus*, *Chileudius*, *Alastoropolus*, *Falklandiellus*, *Scirpicola*, *Berberidicola*, *Chilebaris*, and *Thaliabaria*.
- 46214 LANGE, B. Weitere versuchsergebnisse zur speckkäferbekämpfung. Anz. f. Schädlingssk. 24:21-23. Ref. Feb.1951. 421 An9
- DDT and benzene hexachloride preparations tested against *Dermestes* spp.
- 46215 LANTELME, W. Am ende der Borkenkäfer-kalamität [*Ips typographus*]. Forstl. Mitt. 4:2-4. Jan.5, 1951. 99.8 F7725
- 46216 LEPESME, P., and BREUNING, S. Cerambycides nouveaux récoltés par R. Paulian et Cl. Delamare dans la Réserve Forestière du Banco (Côte d'Ivoire) (août-octobre 1945). Rev. Franç. d'Ent. 18:36-38. 1951. 421 R323
- New species and forms in *Xystrocera*, *Oxylamia*, *Apomecyna*, *Sophrionica*, *Neonitocris*, and *Nupserha*.
- 46217 LILLY, J. H. Rootworms [*Diabrotica longicornis*] are yield robbers. Successful Farming 49(4):46, 185-187. Apr.1951. 6 Su12
- 46218 LIMA, A. DA C. Note on the larva of a ladybird [*Coeliaria erythrogaster*] (Coleoptera, Coccinellidae). (In Portuguese.) Rev. de Ent. 21:592. Dec.1950. 421 R326
- 46219 MCELROY, W. D., and HARVEY, E. N. Differences among species in the response of firefly extracts to adenosine triphosphate. J. Cell. & Compar. Physiol. 37:83-89. Feb.1951. 444.8 J822
- Studies on 13 species of Lampyridae.
- 46220 MCKEOWN, K. C. Australian insects. XLI. Coleoptera, 18. Byrrhids, histerids, and silphids. Austral. Mus. Mag. 10:132-134. Dec.15,1950. 475 Au7
- 46221 MÄNDL, B. Kornkäfer- und schädlingbekämpfung durch Hortex und Jacutin im Hinblick auf das brauwerke. I-II. Brauwelt 1951:129-131,161-163. Feb.22-Mar.1,1951. 390.8 B732
- Control of *Sitophilus granarius* and other pests with benzene hexachloride preparations.
- 46222 MARTÍNEZ, A. Contribución al conocimiento del género "*Megathopa*" Eschsch., 1822, en la Argentina. Eos 26:197-269. July/Dec.1950. 421 Eo7
- 46223 MATEU SANPERE, J. Escaraboides de Ifni y del Sahara Español. Eos 26:271-297. Ref. July/Dec. 1950. 421 Eo7
- 46224 MATHUR, R. N. Larvae of two species of Anthribidae. Indian Forest Rec. New Ser. Ent. 8:13-16. 1950. 99.8 In22E
- Rawasia annulipes*; *Phloeobius alternans*.
- 46225 METELMANN, R. Versuche mit hexastreichmitteln an giftgabäumen gegen den fichtenborkenkäfer. Anz. f. Schädlingssk. 24:17-19. Feb.1951. 421 An9
- Chiefly *Ips typographus*.
- 46226 MKŠIĆ, R. Les notes sur les Scarabaeides de la faune yougoslave (Coleoptera-Lamellicornia). (In Croatian.) Biol. Inst. God. 2:121-127. 1949, pub.1950. 442.9 Sa73
- Includes new forms in *Scarabaeus*, *Homalopia*, *Rhizotrogus*, and *Potosia*.
- 46227 MONROS, F. Descripciones y comentarios sobre *Chlamisinae*, neotropicales (Coleoptera, Chrysomelidae). Rev. Bras. de Biol. 10:409-424. Dec.1950. 442.8 R326
- English summary.
- Includes new species in *Chlamisus*.
- 46228 NICKELS, C. B. DDT alone and with parathion for control of the pecan weevil [*Curculio caryae*] in 1949. Tex. Pecan Growers Assoc. Proc. 29:30. 1950. 94.69 T31
- 46229 NORMAND, H. Nouveaux Coléoptères de l'Afrique du Nord. Rev. Franç. d'Ent. 18:24-30. 1951. 421 R323
- New species in *Atheta*, *Eruyalea*, *Saprinus*, *Attalus*, *Polydrosus*, and *Procas*.
- 46230 OCHS, G. Zur Gyriniden-fauna von Lolodorf (Kamerun). Ent. Bl. 45/46:25-30. Oct.1,1950. 421 En833
- Includes new form in *Orectogyrus*.
- 46231 OEHME, B. G. Oeldrösen bei der imago von *Nosodendron fasciculare* Oliv. (Col.). Ent. Bl. 45/46:12-14. Oct.1,1950. 421 En833
- 46232 PARK, T., and FRANK, M. B. The population history of *Tribolium* free of sporozoan infection. J. Anim. Ecol. 19:95-105. Nov.1950. 410 J826
- 46233 PIC, M. Coléoptères du globe. Echange 67 (523):1-4. (Cont.) Feb.8,1951. 420 Ec4
- Includes new species in *Plagionotus*, *Ptilodactyla*, *Scirtes*, *Poecilomorpha*, *Curtemonomma*, *Monomma*, *Cymatodera*, *Tillus*, *Burgeoneus*, and *Orthrius*.
- 46234 PIC, M. Deux nouveaux Coléoptères d'Egypte et Nubie. Soc. Fouad 1er d'Ent. B. 34:23-24. 1950. 420 Eg9
- In *Potamodytes* and *Prionocleromorphus* n.g.
- 46235 POLENTZ, G. Beiträge zur kenntnis der käfer des Harzes. Ent. Bl. 45/46:10-12. Oct.1,1950. 421 En833
- 46236 POSCHINGER, F. VON. Beitrag zur kenntnis der koleopterenfauna des Donautales und des Bayrischen waldes. Ent. Bl. 45/46:18-21. Oct.1,1950. 421 En833
- 46237 POSCHINGER, F. VON, and KORELL, A. Additamenta corrigenda. Ent. Bl. 45/46:14-16. Oct.1, 1950. 421 En833
- Carabus auratus*.
- 46238 REDDY, D. B. Determination of sex in adult rice and granary weevils (Coleoptera: Curculionidae). Pan-Pacific Ent. 27:13-16. Jan.1951. 421 P193
- Sitophilus oryza* and *S. granarius*.
- 46239 ROHLF, J. A. X-ray may help set your wheat price. Farm J. 75(5):24. May 1951. 6 F2212
- X-ray test to check wheat for weevil (*Sitophilus granarius*, etc.) damage.



46240 SCHEDL, K. E. Fauna aethiopica. V-VI. Rev. Franç. d'Ent. 18:38-42. 1951. 421 R323

113th and 117th contributions to the morphology and taxonomy of the Scolytoidea.

Beetles from Ivory Coast, including new species in Ctonoxylon and Xyleborus.

46241 SCHWEIGER, H. Zur kenntnis der käfer-fauna einiger niederösterreichischer und steirischer höhlen. Ent. Bl. 45/46:30-34. Oct.1,1950. 421 En833

Includes new species in Choleva.

46242 SMALL, T., and THOMAS, G. E. Colorado beetle [Leptinotarsa decemlineata] in Jersey: 1949 and 1950. Gt. Brit. Min. Agr. Agriculture 57:582-586. Mar. 1951. 10 G79J

46243 SMITH, S. G. Evolutionary changes in the sex chromosomes of Coleoptera. II. Flour beetles of the genus Tribolium. (Abs.) Genet. Soc. Amer. Rec. 19:127. 1950. 442.9 G28

46244 STRAKHOVSKAIA, E. N. Something new in the control of wireworms. (In Russian.) Selekt. i Semen. 17 (11):66-68. Nov.1950. 61.9 Se5

Experiments with methyl ester of dimethyl-dithiocarbamic acid.

46245 TAMARINA, N. A. On the biology of a new Agrilus species which causes damage to Caragana arborecens plantations. (In Russian.) Zool. Zhur. 29: 569-571. Nov./Dec.1950. 410 R92

46246 THOMAS, S. L. Derobrachus geminatus on grape roots (Coleoptera: Cerambycidae). Pan-Pacific Ent. 27:35. Jan.1951. 421 P193

46247 TILDEN, J. W. Notes on Chrysobothris bacchari Van Dyke (Buprestidae). Coleopterists' B. 5:1-3. Feb.1951. 421 C674

46248 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Japanese beetle [Popillia japonica] control. Washington, 1951? 1 p. 1.967 A2J27

46249 VAN DYKE, E. C. New species of Coleoptera from North America. Pan-Pacific Ent. 27:27-35. Jan. 1951. 421 P193

New species in Feronia, Athous, Acmaeodera, Chrysobothris, Eupagoderes, Tosastes, Crocidema, Peritaxia, and Onychobaris.

46250 VAURIE, P. Five new subspecies of tiger beetles of the genus Cicindela and two corrections (Coleoptera, Cicindelidae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1479, 12 p. Jan.10, 1951. 500 N483N

46251 VERDIER, P., QUÉZEL, P., and RIOUX, J. A. Description de deux Coléoptères carabiques nouveaux. Soc. Ent. de France. B. 55:130-132. Nov.1950. 420 F84B

In Microlestes and Syntomus.

46252 VOGT, G. B. Occurrence and records of Nitidulidae. Coleopterists' B. 5:4-11. (Concl.) Ref. Feb.1951. 421 C674

46253 VRYDAGH, J. M. Faune entomologique des bois au Congo Belge; les insectes bostrychides (première note). Belgium. Min. des Colon. B. Agr. du Congo Belge 42:65-90. Ref. Mar.1951. 24 K83

46254 WARMBRUNN, E. Engerlings- und drahtwurmbekämpfung auf acker- und gartenland. Württemb. Wechnbl. f. Landwirt. 118:197. Mar.10, 1951. 18 W96

Melolontha and wireworms.

46255 WHITE, R. T., and McCABE, P. J. Colonization of the organism causing milky disease of Japanese beetle [Popillia japonica] larvae, 1939-1949. U. S. Bur. Ent. & Plant Quar. E-816, 10 p. Apr.1951. 1.9 En83

46256 WIESMANN, R., GASSER, R., and GROB, H. Versuch zur bekämpfung des malkäfers (Melolontha melolontha L.) durch flugzeugbehandlung mit DDT-stäubemittel. Schweiz. Ent. Gesell. Mitt. 23:1-36. Ref. Feb.15, 1950. 420 Sw6

46257 WILCOX, J. A. A new species [in Malacorchinus] and new genus [Malacamerus] of Galerucinae (Chrysomelidae: Coleoptera). Ohio J. Sci. 51:90-94. Mar.1951. 410 Oh3

46258 WITTMER, W. Zehnter beitrage zur kenntnis der neotropischen Malacodermata (Col.). Rev. de Ent. 21:677-688. Dec.1950. 421 R326

New species in Oontelus, Discondon, and Lemphus.

46259 WOELFLE, M. Auftreten des buchenprachtkäfers (Agrilus viridis). Allg. Forstz. 6:118. Mar.7, 1951. 99.8 AL52

46260 WOOD, S. L. Two new species and a new genus [Orthotomides] of Scolytidae (Coleoptera) from Utah. Kans. Ent. Soc. J. 24:31-32. Jan.1951. 420 K13

New species in Carphoborus and Polygraphus.

## DIPTERA

46261 AUERBACH, C. Some recent results with chemical mutagens. Hereditas 37:1-16. Ref. 1951. 442.8 H42

Chiefly on Drosophila.

46262 AUSLAND, O. Kirsebaerflua (Rhagoletis cerasi L.) i Norge. En orientering om dens biologi og bekjemping. Cherry fruit-fly in Norway. A contribution to the biology and control. Norway. Stat. Plantevern. Meld. 5, 35 p. Ref. 1951. 86 N83

English summary.

46263 BEQUAERT, J. C. Notes on Hippoboscidae. 20. A revision of the Hippoboscidae of Chile (Diptera). Chile. Dir. Gen. de Agr. Agr. Tec. 10:5-9. June 1950. 464.9 C432B

46264 BLANCO, J. L., and GARCIA, M. Crossing-over in inbred lines of Drosophila melanogaster. (Abs.) Genet. Soc. Amer. Rec. 19:89. 1950. 442.9 G28

46265 BOETTIGER, E., and FURSPAN, E. Observations on the flight motor of Diptera. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):17. Mar.1951. 442.9 F31P

46266 BREUER, M. E., and PAVAN, C. Male genitalia of Drosophila (Diptera): annulimana group. (In Portuguese.) Rev. Bras. de Biol. 10:469-488. Ref. Dec.1950. 442.8 R326

English summary.

46267 BUEN, A. M. DE. Nota sobre Hippoboscidae (Diptera) de México. Mex. Inst. de Biol. An. 21:415-416. 1950. 442.9 M57

46268 BURDETTE, W. J. Comparison of mutation rate and tumor incidence in Drosophila treated with chemicals. (Abs.) Genet. Soc. Amer. Rec. 19:92-93. 1950. 442.9 G28

46269 BURDETTE, W. J. Tumor incidence and lethal mutation rate in Drosophila following treatment with formaldehyde. (Abs.) Cancer Res. 11:241. Apr. 1951. 448.8 C16

46270 BURGESS, R. W. The life history and breeding habits of the eye gnat, Hippelates pusio Loew, in the Coachella Valley, Riverside County, California. Amer. J. Hyg. 53:164-177. Ref. Mar.1951. 449.8 Am3

46271 CLANCY, C. W., and CHAN, F. L. Comparative chromatographic analysis of the "red" eye pigment in the vermilion group of mutants of D. melanogaster. (Abs.) Genet. Soc. Amer. Rec. 19:94-95. 1950. 442.9 G28

46272 COHER, E. I. Neotropical Mycomyia [i.e. Mycomya] I. (Diptera: Mycetophilidae). Rev. de Ent. 21: 561-580. Dec.1950. 421 R326

46273 COLLIN, J. E. Phaonia laetabilis sp. n. with notes on some other related Anthomyiidae (Diptera). Ent. Rec. & J. Variation 63:1-5. Jan.15, 1951. 421 En89

46274 THE DAIRY farmer and his fly problem. Jersey B. 70:454-455, 493-500. Apr.10, 1951. 43.8 J48

Siphona irritans, Stomoxys calcitrans, and Musca domestica; damage to cattle, life histories, control.

46275 DAVIES, D. M. Some observations of the number of black flies (Diptera, Simuliidae) landing on colored cloths. Canad. J. Zool. 29:65-70. Jan.1951. 470 C16D

46276 THE DIPTERA of Suffolk. Suffolk Nat. Soc. Trans. 7:58-65. (Cont.) Dec.1950. 410.9 Su2

46277 FLOCH, H., and ABONNENC, E. Les phlébotomes [Flebotomus] américains; clef d'identification de 97 femelles connues. Ann. de Parasitol. Humaine et Compar. 26:99-117. 1951. 436.8 An7

46278 FREDEEN, F. J. H., REMPEL, J. G., and ARNASON, A. P. Egg-laying habits, overwintering stages, and life-cycle of Simulium arcticum Mall. (Diptera: Simuliidae). Canad. Ent. 83:73-76. Mar.1951. 421 C16

46279 FREZAL, P. Nouvelles observations sur le comportement de la mouche méditerranéenne [Ceratitidis capitata] dans les orangeries et les moyens de l'y combattre à l'automne. Acad. d'Agr. de France. Compt. Rend. 37:59-64. Jan.10/17, 1951. 14 P215Bc

46280 GOLDSCHMIDT, R. B. New heteromorphoses in Drosophila melanogaster Meig. Pan-Pacific Ent. 27: 1-11. Ref. Jan.1951. 421 P193

46281 GOLDSMITH, E. D., and HARNLY, M. H. The citrovorum factor and the reversal of aminopterin inhibition in Drosophila melanogaster. (Abs.) Cancer Res. 11: 251-252. Apr.1951. 448.8 C16



- 46282 GOLDSMITH, E. D., and HARNLY, M. H. Failure of vitamin B<sub>12</sub> to reverse aminopterin inhibition in the fruit-fly *Drosophila melanogaster*. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):52. Mar. 1951. 442.9 F31P
- 46283 GREEN, A. A. Blowflies in slaughterhouses. Roy. Sanit. Inst. J. 71:138-149. Mar. 1951. 449.9 R812 Includes discussion.
- 46284 HADJINICOLAOU, J. Comparative effectiveness of DDT, chlordane, aldrin, and dieldrin residues against the olive fruit fly (*Dacus oleae* Rossi). Athens, 1950. 16 p. (Athens. School of Hygiene. Malaria Div. Arch., No. 351) 428 H112
- 46285 HAMBLETON, E. J. New insecticides for control of tropical parasites of livestock. U. S. Dept. State. Rec. 7:32-34. Jan./Feb. 1951. 150 R24  
Chiefly *Dermatobia hominis* on cattle.
- 46286 HANNAH, A. Strapped, a digenic, sex-limited trait in *Drosophila melanogaster*. (Abs.) Genet. Soc. Amer. Rec. 19:103. 1950. 442.9 G28
- 46287 HARDY, D. E. Neotropical Dorilaidae studies. 2. (Pipunculidae, Diptera). Rev. de Ent. 21:433-448. Dec. 1950. 421 R326  
New species in Dorilais.
- 46288 HARNLY, M. H., and others. Nutritional and temperature effects on the frequency of an hereditary melanoma and *Drosophila melanogaster*. (Abs.) Cancer Res. 11:254. Apr. 1951. 448.8 C16  
F. Friedman, G. C. Emery, and E. Glassman, joint authors.
- 46289 HARPER, S. H., REED, H. W. B., and THOMPSON, R. A. The chrysanthemumcarboxylic acids. I. Preparation of the chrysanthemic acids. J. Sci. Food & Agr. 2:94-100. Ref. Feb. 1951. 382 S012  
Tested for toxicity to houseflies.
- 46290 HERSKOWITZ, I. H., and BURDETTE, W. J. Studies on a melanotic tumor in *Drosophila melanogaster*. (Abs.) Genet. Soc. Amer. Rec. 19:103-104. 1950. 442.9 G28
- 46291 HINTON, T., and ELLIS, J. A nucleic acid requirement in *Drosophila* correlated with a position effect. (Abs.) Genet. Soc. Amer. Rec. 19:104-105. 1950. 442.9 G28
- 46292 HOMOLLE, J. La grande pitie des plantations d'agrumes. Algérie Agr. et Vitic. 29(1156):1. Feb. 24, 1951. 24 AL37  
*Ceratitidis capitata*.
- 46293 HULL, F. M. New species of *Mesogramma* (Diptera, Syrphidae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1480, 22 p. Jan. 11, 1951. 500 N483N
- 46294 ISHII, G. On the development of the "uji"-pupa (*Sturmia sericariae*). (In Japanese.) Japan. Sericult. Expt. Sta. B. 13:131-159. Sept. 1950. 425.9 J273B  
English summary.
- 46295 ISTOMIN, M. N., and IL'INA, A. I. Causes for the drying up of alfalfa stem tops. (In Russian.) Agrobiologiya 1950(6):128-131. Nov./Dec. 1950. 20 Ag822  
*Contarinia medicaginis*.
- 46296 IVES, P. T. Mutator genes as a major cause of gene and chromosome changes in natural populations. (Abs.) Genet. Soc. Amer. Rec. 19:106. 1950. 442.9 G28  
*Drosophila melanogaster*.
- 46297 JOHNSON, R. E. Cow stable shoofly fan. Elect. Farm 24(4):12. Apr. 1951. 335.8 EL27
- 46298 LANGE. Wo stehen wir in der Tipulabekämpfung? Landwirtsch. Weser-Ems 98:121-122. Feb. 8, 1951. 18 L2345
- 46299 LEVENBOOK, L. Variation in phosphorus compounds during adult development of the blowfly, *Calliphora erythrocephala*. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):82. Mar. 1951. 442.9 F31P
- 46300 LEVITAN, M. Retention of a pericentric inversion in populations of *Drosophila robusta*. (Abs.) Genet. Soc. Amer. Rec. 19:108. 1950. 442.9 G28
- 46301 MCDONOUGH, E. S., and ROWAN, M. A study of the effects of crystalline deoxyribonuclease on the salivary gland chromosomes of *Drosophila melanogaster*. (Abs.) Genet. Soc. Amer. Rec. 19:114. 1950. 442.9 G28
- 46302 MACHADO, R. S. Considerations on the Tabanus of Mozambique. (In Portuguese.) Gaz. do Agr. 2:269-272. Nov. 1950. 24 G25
- 46303 MCQUATE, J. T. Chromosome loss occasioned by ultraviolet treatment of *Drosophila spermatozoa*. (Abs.) Genet. Soc. Amer. Rec. 19:114-115. 1950. 442.9 G28
- 46304 MAILLOT, L. Migrations saisonnières de *Glossina palpalis* aux environs de Brazzaville. Soc. de Path. Exot. B. 43:625-631. 1950. 448.9 S013
- 46305 MARTIN, C. H. The lectotype and allotype of *Holopogon snowi* Back (Diptera: Asilidae). Kans. Ent. Soc. J. 24:35-36. Jan. 1951. 420 K13
- 46306 MENON, M. G. R. A review of our knowledge of the genus *Cryptochaetum* Rondani, an interesting group of dipterous scale-parasites. Indian J. Ent. 11:1-8. Ref. June 1949, pub. Dec. 1950. 420 In23
- 46307 MICKEY, G. H. Studies on intersexuality in *Drosophila melanogaster*. (Abs.) Genet. Soc. Amer. Rec. 19:115. 1950. 442.9 G28
- 46308 MITTLER, S. The genetic structure of wild populations of *D. melanogaster*. (Abs.) Genet. Soc. Amer. Rec. 19:115. 1950. 442.9 G28
- 46309 MOISEEV, A. E. Flies of the genus *Dicraeus* as pests of crested wheatgrass [*Agropyron cristatum*] seeds. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(12):33-38. 1950. 20 Ak1  
*Dicraeus pallidiventrus* and *D. vagans*.
- 46310 NIBLETT, M. Notes on some gall-causing Cecidomyiidae. VII. Entomologist 84:43-44. Feb. 1951. 421 En8
- 46311 OLENEV, N. O. On gadflies [*Oedemagena tarandi* and *Cephenomyia trompe*] of northern reindeer. (In Russian.) Priroda 39(10):67-68. Ref. Oct. 1950. 410 P933
- 46312 OLIVEIRA, S. J. DE. On a new neotropical species of the genus *Clunio* Haliday, 1855 (Diptera, Chironomidae). (In Portuguese.) Rev. Bras. de Biol. 10:493-500. Ref. Dec. 1950. 442.8 R326  
English summary.
- 46313 PARAMONOW, S. J. Bestimmungstabelle der Usia-arten der welt (Bombyliidae, Diptera). Eos 26:341-378. July/Dec. 1950. 421 E07
- 46314 PATTERSON, E. K., and DACKERMAN, M. E. Nucleic acid content in relation to cell size in mature larval salivary gland of *Drosophila melanogaster*. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):231-232. Mar. 1951. 442.9 F31P
- 46315 POULSON, D. F. Physiological genetic studies on copper metabolism in the genus *Drosophila*. (Abs.) Genet. Soc. Amer. Rec. 19:118-119. 1950. 442.9 G28
- 46316 QUENTIN, R. M. Sur *Leskia aurea* Fallén (Dipt. Tachinidae). Rev. Franç. d'Ent. 18:18-20. 1951. 421 R323
- 46317 RENJHEN, P. I. On the morphology of the immature stages of *Dacus* (Strumeta) *curcubitae* Coq., (the melon fruitfly) with notes on its biology. Indian J. Ent. 11:83-100. Ref. June 1949, pub. Dec. 1950. 420 In23
- 46318 RISBEC, J. La pupe de *Diopsis apicalis* Dalm. (Dipt.). Soc. Ent. de France. B. 55:114-115. Oct. 1950. 420 F84B
- 46319 SABROSKY, C. W. Nomenclature of the eye gnats (*Hippelates* spp.). Amer. J. Trop. Med. 31:257-258. Ref. Mar. 1951. 448.8 Am33
- 46320 SCHULTZ, J., and SERVICE, M. M. Genetic differences in the requirement for ribonucleic acid and glycine in *Drosophila melanogaster*. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):245. Mar. 1951. 442.9 F31P
- 46321 SÉGUY, E. Un muscide nouveau pour la faune française (Dipt.). Soc. Ent. de France. B. 55:120-121. Oct. 1950. 420 F84B  
New species in *Lispa*.
- 46322 SÉGUY, E. Trois nouveaux Syrphides de Madagascar (Dipt.). Rev. Franç. d'Ent. 18:14-18. 1951. 421 R323  
In *Ceratrachomyia* n.g., *Oreistalis*, and *Vadonimyia* n.g.
- 46323 SPIRITES, M. A. Demonstration of the presence of Krebs cycle enzymes in *Drosophila melanogaster*. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):251. Mar. 1951. 442.9 F31P
- 46324 STONE, A. The *Rhagoletis* of roses (Diptera, Tephritidae). Ent. Soc. Wash. Proc. 53:45-48. Ref. Feb. 1951. 420 W27  
*R. basiola* and *R. alternata*.
- 46325 SUBRAMANYAM, V. K. Attempts at the introduction of *Cryptochaetum iceryae* Will. into India. Indian J. Ent. 11:61-70. June 1949, pub. Dec. 1950. 420 In23
- 46326 THOMAS, H. T. A gynandromorph *Sarcophaga* Meigen (Diptera: Calliphoridae), with notes on the sexual dimorphism of that genus. London Zool. Soc. Proc. 120:155-163. May 1950. 410.9 L84P
- 46327 TILDEN, J. W. Observations on *Rhopalomyia californica* Felt (Diptera: Itonididae). Pan-Pacific Ent. 27:20-22. Jan. 1951. 421 P193
- 46328 ULLYETT, G. C. Competition for food and allied phenomena in sheep-blowfly populations. Roy. Soc. London. Philos. Trans. Ser. B, Biol. Sci. 234:77-174. Ref. Mar. 9, 1950. 501 L84Pb  
*Phaenicia sericata*, *Chrysomya chloropyga*, and *C. albiceps*.



- 46329 ULRICH, H. Röntgenteilbestrahlung von *Drosophila*-eiern. *Naturwissenschaften* 38:121. Mar.1, 1951. 474 N213
- 46330 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. EQ 335 and other wound treatments for screw-worm [*Callitroga americana*] control. U. S. Bur. Ent. & Plant Quar. E-813, 6 p. Feb. 1951. 1.9 En83  
EQ 335 contains lindane and pine oil as active ingredients.
- 46331 WALLACE, B. Mutations induced by chronic radiation. (Abs.) *Genet. Soc. Amer. Rec.* 19:132. 1950. 442.9 G28  
*Drosophila melanogaster* exposed to X rays and gamma rays.
- 46332 WANSON, M., and HOLEMANS, K. L'habitat des stades préimaginaux de *Simulium neavei* et de *Simulium renaulx*. *Ann. de Parasitol. Humaine et Compar.* 26:93-98. Ref. 1951. 436.8 An7
- 46333 WHITTINGHILL, M. Evidences from complementary crossover classes as to the time of crossing over. (Abs.) *Genet. Soc. Amer. Rec.* 19:133-134. 1950. 442.9 G28  
*Drosophila melanogaster*.
- 46334 WYOMING. AGRICULTURAL EXPERIMENT STATION, LARAMIE. DEPT. OF ENTOMOLOGY. Control of the sheep tick [*Melophagus ovinus*] by dusting, by D. G. Denning, and R. E. Pfadt. Laramie, 1950. 5 p. 423 W982
- Culicidae
- 46335 ABAD GÓMEZ, H. Inocuidad de la adición al agua potable de 1 p. p. m. de DDT para la erradicación del *Aedes aegypti*. *Ofic. Sanit. Panamer. B.* 30:330-337. Ref. Mar. 1951. 449.9 P192B  
English summary.
- 46336 AZMY, S. Malaria. *Roy. Egypt. Med. Assoc. J.* 33:830-843. 1950. 448.9 Eg93  
Includes mosquito vectors.
- 46337 BORDAS, E., and DOWNS, W. G. Control of *Anopheles pseudopunctipennis* in Mexico with DDT residual sprays applied in buildings. IV. Activity pattern of adult *A. pseudopunctipennis* Theo. *Amer. J. Hyg.* 53:217-223. Ref. Mar. 1951. 449.8 Am3
- 46338 DURET, J. P. Lista de los mosquitos de la República Argentina (Diptera, Culicidae). *Soc. Ent. Argentina. Rev.* 14:297-318. Ref. Oct. 14, 1950. 420 So14
- 46339 HUTTEL, V. Note sur la répartition des moustiques dans le Bas-Dahomey. *Soc. de Path. Exot. B.* 43:563-566. 1950. 448.9 So13
- 46340 MARTÍNEZ, A. Algunos Culicidae nuevos o poco conocidos para las entomofaunas de Argentina, Bolivia y Paraguay. Buenos Aires. U. Misión de Estud. de Patol. Region. Argentina 21(78):33-41. 1950. 448.9 B862
- 46341 MORIN, H. G. Moustiquaire chimique et paludisme rural. *Soc. de Path. Exot. B.* 43:747-753. 1950. 448.9 So13
- 46342 PEPPER, B. B. Where are we in mosquito control? *N. J. Dept. Health. Pub. Health News* 32:9. Jan. 1951. 449.7 N46P
- 46343 REES, D. M., and NIELSEN, L. T. Four new mosquito records from Utah (Diptera: Culicidae). *Pan-Pacific Ent.* 27:11-12. Jan. 1951. 421 P193
- 46344 SANCHEZ N., R. Enfermedades tropicales. Nicaragua. Min. de Salubridad Púb. B. Sanit. (ser.2)8(49): 13-15. Fourth Q. 1950. 449.9 N51  
Includes mosquitoes and other insect vectors.
- 46345 SCHNEIDER, A. Malaria. *Leben u. Umwelt* 7: 97-101. Feb. 1951. 410 L49  
Includes role of *Anopheles*.
- 46346 SOLODOVNIKOVA, O. I. Developmental cycle of the fat body and its connection with fertility in mosquitoes, *Anopheles maculipennis sächarovi*, *A. superpictus*, and *A. hyrcanus*. (In Russian.) *Zool. Zhur.* 29:545-555. Ref. Nov./Dec. 1950. 410 R92
- 46347 WEATHERSBEE, A. A., ARNOLD, F. T., JR., and ASKEY, M. M., JR. Additional mosquito distribution records for South Carolina. *Tenn. Acad. Sci. J.* 26:79-84. Jan. 1951. 500 T25A
- 46348 YAMAGUCHI, S., and LACASSE, W. J. Mosquito fauna of Guam. n.p., 1950. 2 v. in 1. 428 Y1
- 46350 BEAMER, R. H. Some species of Delphacodes, new and old (Homoptera-Fulgoridae-Delphacinae). *Kans. Ent. Soc. J.* 24:11-15. Jan. 1951. 420 K13
- 46351 BONNEMAISON, L., and MISSONNIER, J. Observations préliminaires sur le psylle du poirier (*Psylla pyri* L.) et essais de traitements. *Acad. d'Agr. de France. Compt. Rend.* 37:57-59. Jan. 10/17, 1951. 14 P215Bc
- 46352 CARLO, J. A. DE. Descripción de especies nuevas de "Ranatridae" y "Belostomidae" y algunas aclaraciones referentes a otras conocidas (Hemiptera). *Rev. Bras. de Biol.* 10:521-532. Dec. 1950. 442.8 R326  
New species in Ranatra and Belostoma.
- 46353 CARVALHO, J. C. M. Neotropical Miridae. XLI. *Tenthecoris orchidearum* (Reuter, 1902) in Britain, and a key to the species of the genus (Hemiptera). *Ann. & Mag. Nat. Hist. (ser.12)* 4:294-304. Mar. 1951. 410 An77
- 46354 CHAMBERLIN, F. S. Aphid trap records in relation to green peach aphid [*Myzus persicae*] infestations in shade-grown tobacco. *Fla. Ent.* 34:6-8. Mar. 1951. 420 F662
- 46355 CHINA, W. E., and CARVALHO, J. C. M. A new ant-like mirid from Western Australia (Hemiptera, Miridae). *Ann. & Mag. Nat. Hist. (ser.12)* 4:221-225. Mar. 1951. 410 An77  
In *Setocoris* n.g.
- 46356 CHINA, W. E., and CARVALHO, J. C. M. A remarkable genus and species of Cylapinae from British Guiana (Hemiptera, Miridae). *Ann. & Mag. Nat. Hist. (ser.12)* 4:289-292. Mar. 1951. 410 An77  
*Xenocylapus nervosus*.
- 46357 COFFMAN, C. Spittle bug control. *Co-op Connector* 13(4):2-3. Apr. 1951. 280.28 C7887  
Cercopidae.
- 46358 COSTA, J. J., VIGEVANO, A. M., and MARGHERITIS, A. E. Ensayos de control químico del pulgón verde de los cereales (*Schizaphis graminum* (Rond.)). *Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno* 4:65-66. 1950. 59.9 P41
- 46359 DELONG, D. M., and RUPPEL, R. F. Four new species of Mexican Cicadella (Homoptera: Cicadellidae). *Ohio J. Sci.* 51:95-98. Mar. 1951. 410 Oh3
- 46360 DICK, J. Insect pests in Natal cane; 2. The Isoptera and Homoptera families. *So. African Sugar J.* 35:99-101. (To be cont.) Feb. 1951. 65.8 So8  
Chiefly Homoptera.
- 46361 DICKSON, R. C., FLOCK, R. A., and JOHNSON, M. M. Quick decline virus; transmission tests indict the melon aphid [*Aphis gossypii*] as one vector of the disease. *Calif. Agr. [Calif. Sta.]* 3(4):5, 12. Apr. 1951. 100 C12Cag  
Citrus quick decline.
- 46362 DRAKE, C. J., and HOTTES, F. C. Two new species of Leptopodidae (Hemiptera). *Kans. Ent. Soc. J.* 24:21-27. Jan. 1951. 420 K13  
In *Valleriella* and *Leptopus*.
- 46363 DÜRKES. Das Albiger "wundermittel." *Weinbau* 5:600. Dec. 17, 1950. 390.8 W432  
Nekrosan for Phylloxera control.
- 46364 FRIEDRICH, G. Über die durch den wind bedingte ungleiche verteilung von schildläusen und winteriern der insekten an den zweigen der obstbäume. *Anz. f. Schädlingsk.* 24:33-34. Mar. 1951. 421 An9
- 46365 GALAKHOV, P. N. Effect of benzene hexachloride on change in dynamics of *Aphis laburni* on peanut plantings. (In Russian.) *Sovet. Agron.* 8(12):87-91. Dec. 1950. 20 So84
- 46366 GRANGER. Les punaises du blé. *Almanach Agr. Tunisien* 1951:163-170. 24 AL6  
*Eurygaster* and *Aelia* spp.
- 46367 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Cabbage aphid [*Brevicoryne brassicae*]. *Gt. Brit. Min. Agr. & Fisheries. Adv. L.* 269, 4 p. Jan. 1951. 10 G79La
- 46368 HERRING, J. L. The aquatic and semiaquatic Hemiptera of northern Florida. 3. Nepidae, Belostomatidae, Notonectidae, Pleidae and Corixidae. *Fla. Ent.* 34: 17-29. Mar. 1951. 420 F662
- 46369 HILLE RIS LAMBERS, D. Neue blattläuse aus der Schweiz. III. (Homopt., Aphidae). *Schweiz. Ent. Gesell. Mitt.* 23:37-46. Feb. 15, 1950. 420 Sw6  
Includes new species in *Dactynotus* and *Aphis*.
- 46370 HOFFMAN, J. R. Leaf hopper [*Macrosteles divisa*] control to prevent the spread of the virus disease aster yellows in commercial lettuce production. *Mich. Agr. Expt. Sta. Q. B.* 33:201-203. Feb. 1951. 100 M58S
- 46371 HOFFMANN, W. E. Second supplement to catalogue of Scutellerioidea. *Lingnan Sci. J.* 23:21-42. 1950. 22.5 C16
- 46372 HUNGERFORD, H. B. A new Mesovelvia from Mexico and Guatemala. *Kans. Ent. Soc. J.* 24:32-34. Jan. 1951. 420 K13

HEMIPTERA (HETEROPTERA AND HOMOPTERA)

- 46349 ACHARD, E. Note au sujet d'une punaise des blés "*Eurygaster integriceps*" (Hemiptere Pentatomidae). *Almanach Agr. Tunisien* 1951:171-183. 24 AL6



- 46373 KORMILEV, N. A. Notes on Neotropical Phymatidae. Diagnosis of new species (Hemiptera). Rev. de Ent. 21:581-591. Dec.1950. 421 R326  
New species in Macrocephalus and Phymata.
- 46374 LENT, H. New species of Triatoma Laporte, 1833 (Hemiptera, Reduviidae). (In Portuguese.) Rev. Bras. de Biol. 10:437-440. Dec.1950. 442.8 R326
- 46375 MILLER, N. C. E. New genera and species of Reduviidae (Rhynchocha) from Southern Rhodesia. London Zool. Soc. Proc. 120:189-264. Aug.1950. 410.9 L84P  
New species in Myiophanes, Empicoris, Ploearia, Spairapeltis n.g., Tinna, Orthunga, Tribelocephala, Pygolampis, Oncocephalus, Sastrapada, Padasastra, Lisarda, Cethera, Edocla, Trichedocla, Reduvius, Cyclopocoris n.g., Plynoides, Ectomocoris, Pirates, Glymmatophora, Maraenaspis, Rhaphidosoma, Lopodytes, Leptodema, Hoffmannocoris, Breddinia, Phonolibes, Paramphibolus, Rhinocoris, Apreolestes, Lamottellus, Spedanolestes, Bequaertidea, Peprius, Moto, Calillestes, Endochus, and Coranus.
- 46376 MÜLLER, H. J., and UNGER, K. Über die Ursachen der unterschiedlichen Resistenz von Vicia faba L. gegenüber der bohnenblattlaus Doralis [i.e. Aphis] fabae Scop. I. Der Verlauf des Massenwechsels von Doralis fabae Scop. in Abhängigkeit vom Witterungsverlauf 1949 in Quedlinburg. Züchter 21:1-30. Ref. 1951. 442.8 Z8
- 46377 MUNUSAN, H., JR. Spittle bug [Cercopidae] control on alfalfa and clover. Pa. State Col. Agr. Ext. L. 144.4 p. Feb.1951. 275.29 P38L
- 46378 MYBURGH, A. C. Mealy-bug [Pseudococcus citri] and P. maritimus control on table grapes. Farming So. Africa 26(298):14-16. Jan.1951. 24 So842
- 46379 O'CONNOR, B. A. Premature nutfall of coconuts in the British Solomon Islands Protectorate. Fiji. Dept. Agr. Agr. J. 21(1/2):21-42. Ref. Mar./June 1950. 25 F47Ag  
Appendix A, Stages in the development of a coconut fruit, by R. Leach, Appendix B, Species of ants found in coconut plantations.  
Injury caused by Amblypelta cocophaga.
- 46380 OLSEN, H. A. Resistencia varietal en el trigo al ataque del pulgón verde [Toxoptera graminum] de los cereales. Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:67-71. 1950. 59.9 P41
- 46381 PARKS, T. H. and WEAVER, C. R. Spittlebug [Philaenus leucophthalmus] control in legumes. Ohio. Agr. Col. Ext. B. 318.8 p. Mar.1951. 275.29 Oh32
- 46382 PENDERGRAST, J. G. The genus Rhopalimorpha Dallas (Hemiptera-Heteroptera) with a description of a new species. Auckland Inst. & Mus. Rec. 4:31-34. Ref. Dec.20,1950. 514 Au22R
- 46383 PERSI, R. A dangerous insect: Aspidiotus perniciosus. (In Italian.) Campagna 49:231. Dec.15,1950. 16 C152
- 46384 RAKSHPAL, R. Notes on the biology of Bagrada cruciferarum Kirk. Indian J. Ent. 11:11-16. Ref. June 1949, pub. Dec.1950. 420 In23
- 46385 ROBB, T. R. Greenbugs [Toxoptera graminum] appear to worry Wyoming farmers, ranchers. Wyo. Stockman-Farmer 57(4):7. Apr.1951. 6 W992
- 46386 SINGH, K. On the anatomy of the fourth instar larva (prepupal phase) of the jamun whitefly Dialeurodes eugeniae (Maskell) (Homoptera, Aleurodidae). Indian J. Ent. 11:25-46. Ref. June 1949, pub. Dec.1950. 420 In23
- 46387 SMIT, B. The Australian bug [Cerya purchasi]. Farming So. Africa 26(298):19,24. Jan.1951. 24 So842
- 46388 SOLAROLI, V., and BONGIOVANNI, G. C. Experiments in winter control of Diaspis pentagona. (In Italian.) Riv. di Frutticoltura. 13:27-37. Ref. Jan.1951. 80 R52  
English summary.
- 46389 SWAINE, G. The biology and control of the cassava scale [Aonidiomytilus albus]. East African Agr. J. 16:90-93. Oct.1950. 24 Ea74
- 46390 TURNER, N., SAUNDERS, D. H., and WILLAMAN, J. J. The effect of some polyethyleneglycol derivatives on the toxicity of nicotine to insects. Conn. (State) Agr. Expt. Sta. B. 543,35 p. Ref. Jan.1951. 100 C76St  
Tests with Aphis fabae.
- 46391 WAGNER, E. Neue Hemiptera-Heteroptera aus Nordafrika. Soc. Fouad 1er d'Ent. B. 34:143-149. 1950. 420 Eg9  
New species and forms in Coranus, Dicranoccephalus, Melanocoryphus, and Tuponia.
- 46392 WOODWARD, T. E. New records of Miridae (Heteroptera) from New Zealand, with descriptions of a new genus and four new species. Auckland Inst. & Mus. Rec. 4:9-23. Dec.20,1950. 514 Au22R  
Includes new species in: Chinamiris n.g., Deraeocoris, Engytatus, Cyrtorhinus, and Sthenarus.
- 46393 WOODWARD, T. E. A new species of Cermatulus Dallas from the Three Kings Islands, New Zealand (Heteroptera: Pentatomidae). Auckland Inst. & Mus. Rec. 4:24-30. Dec.20,1950. 514 Au22R
- 46394 WYGODZINSKY, P. Contribution towards the knowledge of the family "Cryptostemmatidae" (Hemiptera). Rev. Bras. de Biol. 10:377-392. Dec.1950. 442.8 R326  
New species in Voccoroda n.g., Bironannus n.g., Cryptostemma, and Issidomimus.

## HYMENOPTERA

- 46395 AVIDOV, Z., and SVIRSKY, A. The appearance and control of the prune sawfly [Hopllocampa minuta?] in 1950. (In Hebrew.) Hassadeh 31:169-173. (Concl.) Jan. 1951. 26 H27
- 46396 BEAUMONT, J. DE. Note sur trois Stizus et un Gorytes d'Espagne (Hym. Sphecidae). Schweiz. Ent. Gesell. Mitt. 23:61-64. Feb.15,1950. 420 Sw6
- 46397 BEAUMONT, J. DE. Résultats de l'expédition de l'Armstrong Collège à l'Oasis de Siwa (Désert Libyque), 1935, sous la direction du Professeur J. Omer-Cooper; Sphecidae (Hymenoptera). Soc. Fouad 1er d'Ent. B. 34:1-21. Ref. 1950. 420 Eg9  
Includes new species in Cericis, Liris, and Tachysphex.
- 46398 BEAUMONT, J. DE. Sphecidae nouveaux pour la faune suisse (Hym.). Schweiz. Ent. Gesell. Mitt. 23:70. Feb.15,1950. 420 Sw6
- 46399 BORGMEIER, T. A new species of the genus Neivamyrmex Borgmeier (Hym. Formicidae). (In Portuguese.) Rev. de Ent. 21:623-624. Dec.1950. 421 R326
- 46400 BRIAN, J. M. The stable winter population structure in species of Myrmica. J. Anim. Ecol. 19:119-123. Nov.1950. 410 J826
- 46401 CLARK, A. M., and MITCHELL, C. J. Gene dosage relations in Habrobracon [i.e. Microbracon]. (Abs.) Genet. Soc. Amer. Rec. 19:95. 1950. 442.9 G28
- 46402 ESQUIVEL, L. Primer suplemento a la lista de Himenópteros parásitos y predadores de los insectos de la República Argentina. Soc. Ent. Argentina. Rev. 14:270-296. Ref. Oct.14,1950. 420 So14  
Alphabetic index of host insects, p. 291-293; Alphabetic index of parasites and predators, p. 293-296.
- 46403 GROSH, D. S. The analogies between nuclear organization in ciliated protozoa and nuclear dimorphism in tissues of the parasitic wasp Habrobracon [i.e. Microbracon]. (Abs.) Genet. Soc. Amer. Rec. 19:102. 1950. 442.9 G28
- 46404 GRUNDMANN, A. W. Notes on Andricus pilula Bassett (Hymenoptera, Cynipidae), producing a vernal gall on Quercus gambelii Nuttall in northern Utah. Kans. Ent. Soc. J. 24:26-30. Jan.1951. 420 K13
- 46405 GUILLEMAIN, R., and ALIBERT, H. Nouveau procédé de lutte contre les fourmis arboricoles. Terre Marocaine 25(255):48-49. Feb.1951. 24 T44  
Tapinoma nigerrimum and T. simrothi.
- 46406 IVANOVA-KAZAS, O. M. Adaptations to parasitism in the embryonic development of the ichneumon fly, Prestwichia aquatica (Hymenoptera). (In Russian.) Zool. Zhur. 29:530-544. Ref. Nov./Dec.1950. 410 R92
- 46407 KAMP, H. J. Die häufigsten holzwespenarten [Siricidae] Württembergs und ihre technische bedeutung für die holzwirtschaft. Holz-Zentbl. 77:277. Feb.24, 1951. 99.81 H742
- 46408 KRYGER, J. P. The European Mymaridae comprising the genera known up to c. 1930. Ent. Meddel. 26(1),96 p. (To be cont.) 1950. 421 En82
- 46409 MICHENER, C. D. Subgeneric groups of Hemisia (Hymenoptera, Apoidea). Kans. Ent. Soc. J. 24:1-11. Jan.1951. 420 K13
- 46410 MORLEY, C. Flies eat spiders. Suffolk Nat. Soc. Trans. 7:80-81. Dec.1950. 410.9 Su2  
Hemiteles varitarsus reared from eggs of spider (Clubiona sp.?).
- 46411 MORLEY, C. A new parasite [Anagrus niveiscapus n. sp.] of the swallow-tailed butterfly [Papilio machaon]. Suffolk Nat. Soc. Trans. 7:47-48. Dec.1950. 410.9 Su2



- 46412 MORLEY, C. On *Coelocryptus rufinus*, Grav., an ichneumon new to Suffolk. Suffolk Nat. Soc. Trans. 7: 68. Dec.1950. 410.9 Su2
- 46413 OSUNA, P. Métodos prácticos para reprimir las hormigas en las hortalizas y árboles frutales. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Almanaque Agr. de la Repúb. Dominicana 1951:64-65. 1950? 8 D714
- 46414 SCHUBART, O. Ameisen und diplopoden in ihren gegenseitigen Beziehungen. Rev. de Ent. 21:615-622. Ref. Dec.1950. 421 R326
- 46415 SCOTT, H. W. The geological work of the mound-building ants in western United States. J. Geol. 59: 173-178. Mar.1951. 403 J82
- Formica spp.; Pogonomyrmex spp.
- 46416 SEMENOV, N. V. To organize the control of *Philanthus*. (In Russian.) Pchelovodstvo 27:626-627. Nov.1950. 424.8 P295
- Pest of honeybees.
- 46417 SOYKA, W. New and known alaptids and mymarids from Egypt (Hymenoptera-Chalcidoidea). Soc. Fouad 1<sup>er</sup> d'Ent. B. 34:121-131. 1950. 420 Eg9
- Includes new species in *Alaptus*, *Anagrus*, *Gonatocerus*, *Maidliella*, *Novickyella*, and *Oglobliniella*.
- 46418 THALENHORST, W. Der kokon von *Campoplex angustatus* Thoms. (Hym., Ichneumonidae). Anz. f. Schädlingsk. 24:36-37. Mar.1951. 421 An9
- 46419 TOWNSEND, L. H. The hibernation of *Bombus impatiens* Cresson (Hymenoptera: Bombidae). Ent. News [Philadelphia] 62:115-116. Mar.1951. 421 En88
- 46420 WHITING, P. W. Linkage in *Mormoniella*. (Abs.) Genet. Soc. Amer. Rec. 19:133. 1950. 442.9 G28
- 46421 WHITING, P. W. Multiple complementary alleles in *Habrobracon* [i.e. *Microbracon*] and *Mormoniella*. J. Genet. 50:206-214. Jan.1951. 442.8 J823
- 46422 WILSON, E. O. Variation and adaptation in the imported fire ant [*Solenopsis saevissima richteri*]. Evolution 5:68-79. Ref. Mar.1951. 443.8 Ev62
- 46423 WING, M. W. An address list of the myrmecologists of the world. Rev. de Ent. 21:417-432. Dec. 1950. 421 R326
- See also Apiculture and *Apis mellifera*.

## LEPIDOPTERA

- 46424 ANDERSON, W. E. Pink bollworm [*Pectinophora gossypiella*] situation. Cotton Insect Control Conf. Proc. 4:29-33. 1950. 423.9 C82
- 46425 ANDROIC, M. Poplar's caterpillar [*Stilpnotia salicis*]. (In Croatian.) Sumarski List 74:484-487. Dec. 1950. 99.81 Su6
- 46426 ANTRAM, C. B. Artificial introduction of *Lepidoptera*. Ent. Rec. & J. Variation 63:8-10. Jan.15, 1951. 421 En89
- Includes editorial comment.
- 46427 ATKINS, E. L., JR. Fruit tree leaf roller [*Archips argyrospila*] on citrus. Calif. Citrog. 36:246,254. Apr.1951. 80 C125
- 46428 BARTH, R. Die maennlichen duftorgane von *Papilio polystictus* Btlr. and *proneus* Hbn. (Lepidoptera), zugleich ein beitrage zum feineren bau der duftschuppen. Rev. de Ent. 21:513-535. Ref. Dec.1950. 421 R326
- 46429 BECK, E. W., comp. Estimates of damage by the European corn borer [*Pyrausta nubilalis*] to field corn in the United States in 1950. U. S. Bur. Ent. & Plant Quar. Insect Pest Survey. Spec. Sup. 1951(3), 2 p. Mar.23, 1951. 1.9 En831B
- 46430 BERGOLD, G. H. The polyhedral disease of the spruce budworm, *Choristoneura fumiferana* (Clem.) (Lepidoptera: Tortricidae). Canad. J. Zool. 29:17-23. Ref. Jan.1951. 470 C16D
- 46431 BEVILACQUA, I. Control of *Cydia* [i.e. *Carpocapsa*] *pomonella* and *Rhagoletis cerasi* in the Modena region. (In Italian.) Riv. della Ortiflorofrutticolt. Ital. 35:44-48. Jan./Feb.1951. 86 R22
- 46432 BILSING, S. W. A review of the work on the control of the pecan nut casebearer [*Acrobasis caryae*]. Tex. Pecan Growers Assoc. Proc. 29:22-27. 1950. 94.69 T31
- 46433 BIRKETT, N. L. Some notes from south Westmorland, 1950. Entomologist 84:34-35. Feb.1951. 421 En8
- Lepidoptera.
- 46434 BONNEMAISON, L., and CAYROL, R. Essais insecticides de laboratoire sur les chenilles de la noctuelle gamma (Phytophthora [i.e. *Plusia*] gamma L.). Acad. d'Agr. de France. Compt. Rend. 37:65-67. Jan.10/17, 1951. 14 P215Bc
- 46435 BOWDEN, W. D. *Lymantria* [i.e. *Porthetria*] dispar at Margate. Entomologist 84:60. Mar.1951. 421 En8
- 46436 BROWN, F. M. The American *Papilio*. Lepidopterists' News 4:63-67. (Cont.) 1950. 421 L554
- 46437 BYNUM, E. K., HALEY, W. E., and INGRAM, J. W. Winter survival of the sugarcane borer [*Diatraea saccharalis*] in Louisiana and prospects for the 1951 infestation. Sugar B. 29:203-205. Apr.1, 1951. 65.9 Am32
- 46438 CHNEOUR, A. Contribution à l'étude de Macrolépidoptères de Tunisie; description d'une noctuide rare *Agrotis imperator* Bang-Haas (Lépidoptère). Soc. d'Hist. Nat. de l'Afrique du Nord. B. 40:196-197. Nov./Dec.1949, pub.1950. 410.9 So125
- 46439 COCKAYNE, E. A. Andrinde: a comedy of errors. Ent. Rec. & J. Variation 63:18-19. Feb.1951. 421 En89
- Name for aberration of *Euchloe cardamines* based on typographical error; comment by T. B. Fletcher.
- 46440 COLLIER, A. E. A note on the genetics of *Pararge megera* ab. *excessa*. Entomologist 84:56-57. Mar.1951. 421 En8
- 46441 CURL, L. F. The pink bollworm [*Pectinophora gossypiella*], an international problem. Acco Press 29(3): 8-11. Mar.1951. 6 Ac2
- 46442 DEVER, D. A., and FLUKE, C. L. In Door County there is another new insect pest [Grapholitha packardii] of cherries. W's. Hort. 42:137-138. Mar.1951. 80 W752
- 46443 ELIOT, N. Flying Satyridae. Entomologist 84:70-71. Mar.1951. 421 En8
- 46444 EL-SAWAF, S. K. The life-history of the greater wax-moth (*Galleria mellonella* L.) in Egypt, with special reference to the morphology of the mature larva (Lepidoptera: Pyralidae). Soc. Fouad 1<sup>er</sup> d'Ent. B. 34: 247-297. Ref. 1950. 420 Eg9
- 46445 EVANS, W. H. The care of larvae in diapause. Lepidopterists' News 4:70. 1950. 421 L554
- 46446 FRAZER, J. F. D. Notes on a colony of *Colias crocea* Fourcroy. Entomologist 84:25-29. Feb. 1951. 421 En8
- 46447 FRENCH, R. A. Lepidoptera at light in a Hertfordshire wood in July, 1949. Entomologist 84:49-55. Mar.1951. 421 En8
- 46448 GÄBLER, H. Giftspritzzringmethode und ihre entwicklungsmöglichkeiten. Anz. f. Schädlingsk. 24:35-36. Mar.1951. 421 An9
- For controlling caterpillars (*Lymantria monacha*, *Dendrolimus pini*) on trees.
- 46449 GOODSON, A. L. New varieties of British butterflies. Entomologist 84:30. Feb.1951. 421 En2
- In *Pararge* and *Pontia*.
- 46450 GRAVES, P. P. The Irish *Erebia epiphron* (Knoch). Irish Nat. J. 10:97-98. Oct.1950. 410 Ir42
- 46451 GRAVES, P. P. The second brood of the holly blue [*Celastrina argiolus*] in southern Ireland. Irish Nat. J. 10:105-106. Oct.1950. 410 Ir42
- 46452 GRISON, P., VENTURA, E., and VIEL, G. Remarques sur l'emploi de l'hexachlorocyclohexane dans la lutte contre certains ravageurs. Acad. d'Agr. de France. Compt. Rend. 36:566-568. Oct.11/18, 1950. 14 P215Bc
- Tests with *Operophtera brumata* and *Thaumetopoea processionea*.
- 46453 HAGGETT, G. *Eupithecia intricata* Zett. f. *arceuthata* Fr. (Lep., Geometridae). Entomologist 84: 58-60. Mar.1951. 421 En8
- 46454 HAGGETT, G. Further observations on *Zeuzera pyrina* L. Entomologist 84:31-33. Feb.1951. 421 En8
- 46455 HAWKINS, C. N. Gender of *Colias*. Entomologist 84:45-46. Feb.1951. 421 En8
- 46456 HAYWARD, K. J. Un nuevo género [Sea] para Nymphalidae. Soc. Ent. Argentina. Rev. 14:319-320. Oct.14, 1950. 420 So14
- 46457 HUGGINS, H. C. Migrants in 1950. Entomologist 84:46-47. Feb.1951. 421 En8
- Lepidoptera.
- 46458 KADAMBI, K. Teak defoliation. Indian Forester 77:64-70. Jan.1951. 99.8 In2
- Due to caterpillars of *Hyblaea pœura*.
- 46459 KAUFFMANN, G. Remarques concernant deux aberrations de *Pyrgus carlinae* Rbr. (Lep. Hesperidae). Schweiz. Ent. Gesell. Mitt. 23:67-69. Feb.15, 1950. 420 Sw6
- 46460 LILLY, J. H. Feed cutworms toxaphene—not corn; here is a treatment that gave excellent control of this pest last year. Successful Farming 49(4):58,60. Apr. 1951. 6 Su12



- 46461 LIMA, A. D. F. Cutworm caterpillars. (In Portuguese.) Selec. Agr. 6(57):55-56. Jan.1951. 9.2 Se4
- 46462 LOELIGER, R. The migration observation group of Switzerland. Lepidopterists' News 4:61-62. 1950. 421 L554
- 46463 LUCAS, D. Contribution à l'étude des Lépidoptères nord-africains. Soc. Ent. de France. B. 55:141-144. Nov.1950. 420 F84B
- New species and forms in Antitype, Metachrostis, Heterographis, Syria, Laodamia, Megasis, Actenia, Constantia, Paractenia, Euplocera, Tineola, Depressaria, Phthorimaea, and Borkhausenia.
- 46464 MAGNUS, D. Beobachtungen zur balz und eiablage des kaisermantels *Argynnis paphia* L. (Lep., Nymphalidae). Z. f. Tierpsychol. 7:435-449. Ref. Oct. 1950. 410 Z35
- 46465 MARTIN, D. F., and BILSING, S. W. Pecan nut casebearer [*Acrobasis caryae*] control during 1947-50. Tex. Agr. Expt. Sta. Prog. Rpt. 1342, 6 p. Mar.14, 1951. 100 T31P
- 46466 MICHELBAACHER, A. E., BACON, O. G., and MIDDLEKAUFF, W. W. Walnut pest studies, 1950; conventional and air carrier sprayers compared in codling moth [*Carpocapsa pomonella*] and aphid control for northern California. Calif. Agr. [Calif. Sta.] 3(4):4,14. Apr. 1951. 100 C12Cag
- 46467 MINER, F. D., and LINCOLN, C. Insecticidal control of armyworm [*Cirphis unipuncta*]. Kans. Ent. Soc. J. 24:16-20. Jan.1951. 420 K13
- Paris green bran bait and toxaphene sprays and dusts effective in tests on oats.
- 46468 MONCEAU, G. Cossus et zeuzères. Révell Agr. 60:54-55. Feb.15,1951. 14 R322
- Caterpillars of *Cossus* sp. and *Zeuzera* sp. attacking fruit trees.
- 46469 NABOKOV, V. Remarks on F. Martin Brown's "Measurements and Lepidoptera." Lepidopterists' News 4:75-76. 1950. 421 L554
- With reply by F. M. Brown.
- 46470 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Insect pests. Agr. Gaz. N. S. Wales 62:41-43,52. Jan.1,1951. 23 N472
- Plodia interpunctella* and *Maleuterpes spinipes*.
- 46471 NICKELS, C. B. Tests of organic insecticides against the pecan nut casebearer [*Acrobasis caryae*] in 1949. Tex. Pecan Growers Assoc. Proc. 29:27-29. 1950. 94.69 T31
- 46472 OBRAZTSOV, N. Neue und wenig bekannte mediterrane Tortriciden-arten (Lep., Tortr.). Eos 26:299-319. July/Dec.1950. 421 Eo7
- New species in *Clepsis*, *Cnephiasia* and *Laspeyresia*.
- 46473 ORFILA, R. N. Clasificación de Lepidoptera Rhopalocera. Soc. Ent. Argentina. Rev. 14:263-269. Oct.14,1950. 420 So14
- 46474 OWEN, D. F. North Cumberland Lepidoptera notes, 1950. Ent. Rec. & J. Variation 63:10-11. Jan.15, 1951. 421 En89
- 46475 PIEPHO, H. Hormonale Grundlagen der spinntätigkeit bei schmetterlingsraupen. Z. f. Tierpsychol. 7:424-434. Ref. Oct.1950. 410 Z35
- Observations on *Galleria mellonella*.
- 46476 RAMOS, M. J. Contra los Heliothis invernantes de los algodones. Hacienda 46(3):43. Mar.1951. 6 H11
- H. armigera.
- 46477 REICHEL, J. Collecting on the Peloponnesos of Greece. Lepidopterists' News 4:74. 1950. 421 L554
- 46478 REID, W. Lepidoptera collecting notes, 1950. Ent. Rec. & J. Variation 63:19-22. (To be cont.) Feb. 1951. 421 En89
- 46479 RITSCHL, A. Schäden an kopfsalat durch den wurzelspinner *Hepiulus sylvinus* L. Anz. f. Schädlingsk. 24:34-35. Mar.1951. 421 An9
- 46480 ROSENSTIEL, R. G. Life history and control of the cotoneaster webworm [*Cremona cotoneastris*]. Oreg. Agr. Expt. Sta. C. Inform. 492,3 p. Mar.1951. 100 Or3C
- 46481 RUTHERFORD, C. I. The next 50 years. Entomologist 84:61-63. Mar.1951. 421 En8
- Collecting Lepidoptera.
- 46482 SALA, F. P. Field notes on diurnal moths of the genus *Annaphila*. Lepidopterists' News 4:71. 1950. 421 L554
- 46483 SCHAFFNER, J. V., JR. Hemlock loopers, *Lambdina fiscellaria fiscellaria* (Guenee) and *Lambdina athasaria athasaria* (Walker). Tree Pest L. 51,4 p. May 1950. 423.9 M38
- 46484 SCHENK, P. J. The little winter moth [Operophtera brumata]. (In Flemish.) Cult. en Handel 17:18-20. Jan.1951. 80 C892
- 46485 SCOTT, E. A list of butterflies and moths (Macro Lepidoptera) occurring in the neighbourhood of Ashford, Kent. Ed. 2, rev. Ashford, Kent, Headley, 1950. 46 p. 430 So32
- 46486 SEVASTOPULO, D. G. Field notes from East Africa. 5. Entomologist 84:67-68. Mar.1951. 421 En8
- Lepidoptera observations.
- 46487 SILVA, P. Espécies do género *Stenoma* (Lepidoptera) e suas plantas hospedeiras na Região Neotropical [Species of the genus *Stenoma* (Lepidoptera) and their host plants in the Neotropical Region]. Recife, Imprensa Oficial, 1950. 16 p. 430 Si33
- 46488 STALLWOOD, B. R. Observations on the oviposition of *Fabriciana cydippe*. Entomologist 84:29. Feb.1951. 421 En8
- 46489 TAYLOR, J. S. British Sphingidae in South Africa. Ent. Rec. & J. Variation 63:16-18. Feb.1951. 421 En89
- 46490 TAYLOR, J. S. Notes on *Phala patagiata* Aur., the Karoo tent caterpillar. Union So. Africa. Dept. Agr. Ent. Mem. 2:219-229. 1950. 423.92 So8
- 46491 TRAVASSOS, L. Contribution towards the knowledge of the Arctidae. XXII. Still on the species of the genus *Bertholdia* Schaus, 1896. (In Portuguese.) Rev. Bras. de Biol. 10:447-464. Dec.1950. 442.8 R326
- 46492 TREHAN, K. N., and BUTANI, D. K. Notes on life-history, bionomics and control of *Chilo zonellus* Swinhoe in Bombay Province. Indian J. Ent. 11:47-59. June 1949, pub. Dec.1950. 420 In23
- 46493 TRENTINI, R. *Carpocapsa dannehl* Obr. (pear worm). (In Italian.) Almanacco Agr. (1951)62:171-174. 1950. 16 AL6
- 46494 TRENTINI, R. *Lionetia clerkei* L. and *Lithocolletis blanchardella* L., or fruit tree leaf miners. (In Italian.) Almanacco Agr. (1951)62:195-198. 1950. 16 AL6
- 46495 TURNER, H. J. Butterflies in the New Forest. Entomologist 84:45. Feb.1951. 421 En8
- 46496 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Gypsy moth [*Porthetria dispar*] control and quarantine. Washington? 1950? 1 p. 1.967 A2G993
- 46497 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Imported cabbageworm (*Pieris rapae* (L.)). U. S. D. A. Picture Sheet 9, rev., 2 p. Feb.1951. 1 En86P
- 46498 VALLETTA, A. Additions to the list of Lepidoptera, Heterocera, of the Maltese Islands. Entomologist 84:64-66. Mar.1951. 421 En8
- 46499 VAZQUEZ G., L. Observaciones sobre *Pieris* mexicanos. II. *Phoebis sennae eubule* L. y sus formas en México. Mex. Inst. de Biol. An. 21:417-429. 1950. 442.9 M57
- 46500 VECHT, J. VANDER. The coconut leaf moth (*Artotona catoxantha* Hamp.). I. Life history and habits of *Artotona catoxantha*, its parasites and hyperparasites. Indonesia. Gen. Agr. Res. Sta. Contrib. 110,77 p. Ref. Nov.1950. 109.5 Ea73
- 46501 VIETTE, P. Contribution à l'étude des Hépalides. 16. Sur quelques espèces de la collection Pfitzner. Soc. Ent. de France. B. 55:116-119. Oct.1950. 420 F84B
- Includes new genera *Pfitzneriella* and *Pseudophilaenia*.
- 46502 VIETTE, P. Contribution à l'étude des Micropterygidae. 6. Description d'une nouvelle espèce (Lep.). Soc. Ent. de France. B. 55:135-137. Nov.1950. 420 F84B
- In Micropteryx.
- 46503 WAITE AGRICULTURAL RESEARCH INSTITUTE. DEPT. OF ENTOMOLOGY. The climbing cutworm moth in South Australia. So. Austral. Dept. Agr. J. 54:184-189. Nov.1950. 23 So84
- Identification, habits, and control of *Heliothis armigera*.
- 46504 WILDE, H. E. Moths on the move. Forecast Home Econ. 67(4):22-23,50-51. Apr.1951. 321.8 F76
- Clothes moths and *Anthrenus scrophulariae*.
- 46505 WILLIAMS, H. B. A curious aberration of *Callimorpha dominula*. Ent. Rec. & J. Variation 63:13-14. Feb.1951. 421 En89
- See also Sericulture and the Silkworm.

## ORTHOPTERA

- 46506 FISCHER, R. G., and SYVERTON, J. T. The cockroach [*Periplaneta americana*] as an experimental vector of Coxsackie virus. Amer. J. Trop. Med. 31:238-242. Ref. Mar.1951. 448.8 Am33
- 46507 GAULDEN, M. E., and NIX, M. Effects of oxygen tension on X-ray induced mitotic inhibition. (Abs.) Genet. Soc. Amer. Rec. 19:99-100. 1950. 442.9 G28
- Chortophaga viridifasciata embryos.



- 46508 GOULD, G. E. The German roach [*Blattella germanica*] as a laboratory test animal. Ind. Acad. Sci. Proc. (1949)59:173-180. 1950. 500 In2
- 46509 HARVEY, G. T., and BROWN, A. W. A. The effect of insecticides on the rate of oxygen consumption in *Blattella* [germanica]. Canad. J. Zool. 29:42-53. Ref. Jan.1951. 470 C16D
- 46510 HASSETT, C. C. Transformation of hexose-phosphates by the cockroach. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):61. Mar.1951. 442.9 F31P
- 46511 HUSSEIN, M. A comparison of wet and dry bran baits. Soc. Fouad 1<sup>er</sup> d'Ent. B. 34:243-246. 1950. 420 Eg9
- Tests with *Euprepocnemis plorans* and *Schistocerca* sp.
- 46512 JOUNG, R. H. Control of locusts. (In Italian.) Agenzia Romana Note e Inform. Agr. 1951(18):10. Mar. 15,1951. 281:8 Ag3
- 46513 LIEBERMANN, J. Sobre una plaga desconocida en los cultivos otoñales de Entre Rios (Orth. Grylloidea, Gryllidae). Cent. Region. Pampeano de Invest. Agropecuarias. Mem. de la Reunión de Trigo, Avena, Cebada y Centeno 4:78-81. 1950. 59.9 P41
- 46514 LOGOTHETIS, C. Pruebas preliminares del control de la langosta con aldrin. Suelo Tico 4:382-392. Nov./Dec.1950. 8 Su2
- 46515 MORALES AGACINO, E. Apuntes sobre los Phasmidae y Tettigoniidae marroquines del Instituto Español de Entomología. Eos 26:157-196. Ref. July/Dec. 1950. 421 Eo7
- Includes new species in *Odontura*, *Hemictenodecticus*, and *Steropleurus*.
- 46516 ORSER, W. B., and BROWN, A. W. A. The effect of insecticides on the heartbeat of *Periplaneta* [americana]. Canad. J. Zool. 29:54-64. Jan.1951. 470 C16D
- 46517 PIZA, S. DE T. New species of *Pseudophyllidae* from Brazil. (In Portuguese.) Rev. de Ent. 21:555-560. Dec.1950. 421 R326
- New species in *Ommatoptera*, *Tanusia*, *Porphyromma*, *Lichenochrus*, and *Orpacophora*.
- 46518 REHM, R. A. The metabolic effect of the administration of thiouracil in *Periplaneta americana*. (Abs.) Ind. Acad. Sci. Proc. (1949)59:295-296. 1950. 500 In2
- 46519 ROTHFELS, K. H. Spontaneous and induced chromosome aberrations in the grasshopper *Chloealetis conspersa*. (Abs.) Genet. Soc. Amer. Rec. 19:121. 1950. 442.9 G28
- 46520 SMIT, C. J. B. Field and laboratory experiments with insecticides against locust hoppers. Union So. Africa. Dept. Agr. Sci. B. 304,78 p. Ref. 1950. 24 So84S
- 46521 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Grasshopper and Mormon cricket [*Anabrus simplex*] control. Washington?1951. 2 p. 1.967 A2G76Z
- 46522 VIADO, G. B. Reproductive capacity of the Oriental migratory locust [*Locusta migratoria manilensis*] Philippine Agr. 33:221-238. Ref. Apr./June 1950. 25 P54Z

# SERICULTURE AND THE SILKWORM

- 46523 IAREMENKO, I. I. In regard to changing the cocoon structure in Chinese oak silkworm [*Antheraea pernyi*]. (In Russian.) Vsesoiūzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 16(1):46-47. 1951. 20 Ak1
- 46524 INOUE, R. Nihon sanshi gairon; yosan hen [Outline of Japan silk; breeding of silk-worms]. Tokyo, Hada Shoten, 1950. 411 p. 425 In7
- 46525 MARCHEGANI, G. Cocoons recover their value. (In Italian.) Almanacco Agr. (1951)62:107-109. 1950. 16 AL6
- Italy.
- 46526 SIMONOV, N. S. Technological properties of new variety of mulberry silkworm [*Bombyx mori*]. (In Russian.) Vsesoiūzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 15(12):42-47. 1950. 20 Ak1
- 46528 AUBERT, J. *Nemoura undulata* Ris, un pléoptère mal connu des Alpes suisses. Schweiz. Ent. Gesell. Mitt. 23:65-66. Feb.15,1950. 420 Sw6
- 46529 BAILEY, S. F. A homonym in the genus *Thrips* Linné (Thysanoptera: Thripidae). Pan-Pacific Ent. 27: 19. Jan.1951. 421 P193
- Thrips temporatus* proposed to replace *T. setosus* Moulton 1929, not Moulton 1928.
- 46530 BURTON, P. J. Novel Suffolk dragonfly. Suffolk Nat. Soc. Trans. 7:74. Dec.1950. 410.9 Su2
- Somatochlora metallica*.
- 46531 CHAO, H. F. A note on the persistence of a much-neglected primary antenodal cross vein in the order Odonata. Ent. News [Philadelphia] 62:103-105. Mar.1951. 421 En88
- 46532 CONDE, B. Campodeidae (Insecta Diplura) d'Afrique du Sud récoltés par le Dr. R. F. Lawrence. London Zool. Soc. Proc. 119:807-815. Ref. Feb.1950. 410.9 L84P
- New species in *Anisocampa*, *Silvestricampa* n.g., and *Metricampa*; also *Oreocampa* n.g.
- 46533 EADS, R. B. A new species of *Jellisonia* Traub from Mexico (Ceratophyllidae, Siphonaptera). J. Parasitol. 37:147-150. Apr.1951. 448.8 J824
- 46534 EDMUNDS, G. F., JR. Notes on Neotropical Ephemeroptera. I. New and little known Leptophlebiidae. Rev. de Ent. 21:551-554. Dec.1950. 421 R326
- New species in *Thraulodes*.
- 46535 ELBEL, R. E. Comparative studies on the larvae of certain species of fleas (Siphonaptera). J. Parasitol. 37:119-128. Apr.1951. 448.8 J824
- Ctenocephalides felis*, *Nosopsyllus fasciatus*, *Orchopeas sexdentatus*, *O. leucopus*.
- 46536 GHABN, A. A. Field tests on a number of old and new insecticides against *Thrips tabaci* Lind. (Thysanoptera) attacking cotton seedlings and onion in Egypt. Soc. Fouad 1<sup>er</sup> d'Ent. B. 34:173-242. 1950. 420 Eg9
- 46537 GLOYD, L. K. Records of some Virginia Odonata. Ent. News [Philadelphia] 62:109-114. Mar. 1951. 421 En88
- 46538 GRASSE, P. P. Termittes et sols tropicaux. Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 30:549-554. Nov./Dec.1950. 26 R323
- 46539 HILL, E. L., and others. Evaluation of county-wide DDT dusting operations in murine typhus control (1946 through 1949). Amer. J. Pub. Health 41:396-401. Apr.1951. 449.9 Am3J
- H. B. Morlan, B. C. Utterback, and J. H. Schubert, joint authors.
- Control of rat parasites (*Xenopsylla cheopis*, *Leptopsylla segnis*, *Liponissus bacoti*, and *Polyplax spinulosa*) in Georgia.
- 46540 KEVAN, D. K. M. Records of Trinidad earwigs (Dermaptera). Ann. & Mag. Nat. Hist. (ser.12)4: 249-257. Ref. Mar.1951. 410 An77
- 46541 KIMMINS, D. E. Indian caddis flies. IV. New genera and species of the family Hydroptilidae. Ann. & Mag. Nat. Hist. (ser.12)4:193-213. Mar.1951. 410 An77
- New species in *Moselyella* n.g., *Stactobia*, *Orthotrichia*, *Oxyethira*, *Stenoxyethira* n.g., and *Tricholeiochiton*.
- 46542 KIMMINS, D. E. Results of the Armstrong College Expedition to Siwa Oasis (Libyan Desert), 1935, under the leadership of Prof. J. Omer-Cooper; Odonata and Neuroptera. Soc. Fouad 1<sup>er</sup> d'Ent. B. 34:151-157. 1950. 420 Eg9
- 46543 LONGFIELD, C. A new African Microgomphus, and notes on some Asiatic types (Odonata). Ent. News [Philadelphia] 62:97-102. Mar.1951. 421 En88
- 46544 MACNEILL, N. Key to nymphs of *Coenagrillidae*-corrigenda. Irish Nat. J. 10:115-116. Oct.1950. 410 Ir42
- 46545 MACNEILL, N. Odonata-Irish distribution. Irish Nat. J. 10:98-99. Oct.1950. 410 Ir42
- 46546 MACNEILL, N. Separation characters for nymphs of *Lestes dryas* Kirby and *L. sponsa* (Hansemann) (Odonata-Lestidae). Entomologist 84:40-42. Feb.1951. 421 En8
- 46547 MUNROE, E. G. Pest Trichoptera at Fort Erie, Ontario. Canad. Ent. 83:69-72. Mar.1951. 421 C16
- 46548 NIELSEN, A. On the zoogeography of springs. Hydrobiologia 2:313-321. Nov.15,1950. 410 H992
- Trichoptera of some Danish springs.
- 46549 PRATT, H. D., and LANE, J. E., JR. *Hoplopleura oryzomydis* new species, with notes on other United States species of *Hoplopleura* (Anoplura: Haematopidae). J. Parasitol. 37:141-146. Apr.1951. 448.8 J824

# SMALLER ORDERS

- 46527 ANANTHAKRISHNAN, T. N. Description of *Ischyrothrips menoni*, sp. nov. (Thysanoptera-Tubulifera) from South India. Indian J. Ent. 11:9-10. June 1949, pub. Dec.1950. 420 In23



- 46550 PRIESNER, H. Contributions towards a knowledge of the Thysanoptera of Egypt, XV. Soc. Fouad 1<sup>er</sup> d'Ent. B. 34:25-37. 1950. 420 Eg9  
New species in Sericothrips, Eremiothrips n.g., Exothrips, Taeniothrips, Haplothrips, and Bolothrips.
- 46551 PRIESNER, H. Further studies in Haplothrips and allied genera (Thysanoptera). Soc. Fouad 1<sup>er</sup> d'Ent. B. 34:89-120. 1950. 420 Eg9  
Includes Aulothrips n.g.
- 46552 PRIESNER, H. Studies on the genus Scolothrips (Thysanoptera). Soc. Fouad 1<sup>er</sup> d'Ent. B. 34:39-68. Ref. 1950. 420 Eg9
- 46553 QUIGLEY, G. D. Chlordane for poultry lice. Md. Poultry Ybk. 1951:41. 47.9 M36
- 46554 RICKER, W. E. Some evolutionary trends in Plecoptera. Ind. Acad. Sci. Proc. (1949)59:197-209. 1950. 500 In2
- 46555 ST. QUENTIN, D. Secondary sexual characters on the legs of Zygotera (Odonata). Ent. News [Philadelphia] 62:105-108. Mar.1951. 421 En88
- 46556 SCHMID, F. Le genre Halesochila Banks (Trichopt. Limnophilid.). Schweiz. Ent. Gesell. Mitt. 23:55-60. Feb.15.1950. 420 Sw6
- 46557 SCHMID, F. Trois nouveaux Limnophilides (Trichopt.). Schweiz. Ent. Gesell. Mitt. 23:47-54. Feb.15.1950. 420 Sw6  
New species in Limnophilus, Asynarchus, and Apatidea.
- 46558 SMITH, C. N. Compounds more toxic to fleas than DDT. Amer. J. Trop. Med. 31:252-256. Mar.1951. 448.8 Am33  
Tests with Ctenocephalides felis and Xenopsylla cheopis.
- 46559 TRAYER, J. R. Notes on Neotropical mayflies IV. Family Ephemeridae. Rev. de Ent. 21:593-614. Ref. Dec.1950. 421 R326  
New species in Campsurus and Tortopus.
- 46560 WERNECK, F. L. Os Malófagos de mamíferos. II. Ischnocera (continuação de Trichodectidae) e Rhynchophthirina [The Mallophaga of mammals. II. Ischnocera (continuation of the Trichodectidae) and Rhynchophthirina]. Rio de Janeiro, Instituto Oswaldo Cruz, 1950. 207 p. 436 W492  
Includes new species in Cebidicola, Geomydoecus, Eutrichophilus, Bovicola, Damalinia, and Tricholipeurus.
- 46561 WESTFALL, M. J., JR. Notes on Tetrageoneuria sepia Gloyd, with descriptions of the female and nymph. Fla. Ent. 34:9-14. Mar.1951. 420 F662

## AGRICULTURAL ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

## GENERAL AND MISCELLANEOUS

- 46562 BOHL, L. Farm safety speaking contest has 5000 participants. Amer. Coop. 22:687-690. 1950. 280.29 Am3A
- 46563 COE, M. H. Farms can be dangerous. Breeder-Stockman 12(11):64G-64H. Apr.1951. 49 V81
- 46564 COX, J. K. Where there's a road, there's mud. Ill. Agr. Assoc. Rec. 29(4):4-5. Apr.1951. 6 IL62  
Legislative road program of the Illinois Agricultural Association.
- 46565 JAIVENOIS, A. L'explosif agricole au service de l'arboriculture fruitière. Cour. Hort. 13:29-30. Jan.1951. 80 C834
- 46566 KOBAYASHI, H. Jichi katsuyo sokuryo [Practical agricultural surveying]. Tokyo, Riko Toshio, 1950. 145 p. 325 K79
- 46567 KORRICK, F. C. New Zealand. New Zealand ranks among the highly mechanized farming countries, and is famed for its meat and dairy products. Farm Mech. 3:10-12. Jan.1951. 58.8 R772
- 46568 MCCORMICK, J. C. Can we have good roads? Consolidated districts, a modern road law, are first steps. Ill. Agr. Assoc. Rec. 29(2):25. Feb.1951. 6 IL62
- 46569 MAKI, R. Nogyo doboku-gaku [Science of agricultural engineering]. Tokyo, Chikyu Shuppan, 1950. 557 p. 290 M282
- 46570 MANN, D. Fog fights farm fires. Kans. Farmer 88(3):8,10-11. Feb.3,1951. 6 K13  
Fog equipment.
- 46571 MULFORD, T. You ought to have a pond; when a man has made a pond—whether it's for stock watering, for recreation, or other uses—his eyes light up when he tells about it. Country Gent. 121(4):22,112-113,115. Apr.1951. 6 C833  
Construction.
- 46572 RASMUSSEN, M. Beautifying the farm home grounds. Organized Farmer 10(2):18. Feb.1951. 281.8 Or32  
Canada.
- 46573 ROYAL INSTITUTION OF CHARTERED SURVEYORS. List of members 1951. London, 1951. 556 p. 282.9 L23
- 46574 STUBBS, J. R. Agricultural development and the engineer. Farm Mech. 3:49-52. Feb.1951. 58.8 B772
- 46575 U. S. RURAL ELECTRIFICATION ADMIN. Explosives for digging pole holes. Washington? 1950. 7 p. 1.933 Ex7  
Telephone pole holes.

## FARM MACHINES AND EQUIPMENT

- 46576 ARCHER, R. C. Advances and problems in cotton mechanization. Cotton Trade J. Internatl. Ed. 31 (10):229,231,239-240. Mar.9,1951. 72.8 C8214I
- 46577 ARMER, A. Prepare for a shortage of field labor. Spreckels Sugar Beet B. 15:10-13. Mar./Apr.1951. 66.8 Sp7  
Mechanization.
- 46578 BARRENBRÜGGE, Aus der bastel- und erfinderwerkstatt des sauerlandbauern. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:396. Mar.15,1951. 18 L2346  
Equipment types.
- 46579 BLONDELLE, R. Quel est le pouvoir d'achat des agriculteurs? Monit. de la Mécan. Rur. 44:33. Feb. 1951. 58.8 M74
- 46580 BRANNOV, S. Mechanization of agriculture and the increased fire hazards. (In Danish.) Tolvmandsblad 23:14-16. Jan.1951. 11 T58
- 46581 BRASCHI, G. Progress in agricultural mechanization in the last hundred years: prospects and present problems. (In Italian.) Cong. Agr. Naz. Atti 1948:163-164. 1950. 27 C7625
- 46582 BRENNER, W. G., and GAUS, H. Betrachtungen über schlepperlader aus den arbeiten des Instituts für Landmaschinenforschung, Braunschweig-Völkenrode. Tech. f. Bauern u. Gärt. Ausg. A 3:2-4. Jan.10,1951. 58.8 T223
- 46583 BRÜEL, O. A hoist is still a valuable means of transportation. (In Danish.) Tolvmandsblad 23:11-14. Jan.1951. 11 T58
- 46584 CARILLON, R. Impressions de voyage aux États-Unis: une leçon de simplicité. Motorisation Agr. 6:60-63,65. Feb.1951. 58.8 M85  
Contrast of American and French agricultural methods and mechanization.
- 46585 CERTAINES, E. DE. La motorisation, facteur important de la productivité agricole. Motorisation Agr. 6:82-83,85,87. Feb.1951. 58.8 M85
- 46586 CHRISTEN, E., and others. Landwirtschaftliche geräte und maschinen. Zollikofen, Oekonomische und Gemeinnützige Gesellschaft des Kantons Bern, 1950. 48 p. 58 C46  
F. Berger, E. Bönzli, H. Fritsch, J. Grossenbacher, H. Arni, and H. Bieri, joint authors.
- 46587 CULPIN, C. Economic mechanization of small farms. Roy. Agr. Soc. Eng. J. 111:30-46. 1950. 10 R81
- 46588 DELASNERIE, J. Salon 1951; un premier aperçu de cette manifestation les progrès techniques et les matériels nouveaux. Monit. de la Mécan. Rur. 44:29, 31. Feb.1951. 58.8 M74
- 46589 DUPONT, L. Motorisation agricole. Voix des Colons 33(1598):2-3. Mar.5,1951. 24 V85
- 46590 DUPRÉ, M. Le lot de bord. Motorisation Agr. 5(52/53):37,39. Dec.1950/Jan.1951. 58.8 M85  
Equipment.
- 46591 EMMONS, W. R. He believes in mechanization. South. Planter 112(3):10-11. Mar.1951. 6 So89
- 46592 ENGELHARD, J. Comment motoriser votre ferme. Rustica 24:163. Feb.25,1951. 14 R92  
France.



- 46593 ENGELHARD, J. Organisation scientifique du travail et petit outillage. *Monit. de la Mécan. Rur.* 44:35, 37, 39. Feb. 1951. 58.8 M74  
France.
- 46594 GALLARDO, J. A. Mecanización agrícola en la provincia. Badajoz. Diputación Prov. B. de Inform. Agr. y Ganad. 8(82):4-5. Nov./Dec. 1950. 15 B14
- 46595 GAUSEBECK, A. Landfrau und Kamerateilmaschine. Essen, Girardet, 1950. 264 p. 58 G23
- 46596 GEIGER, H. L., and NORTHRUP, H. W. A new metal for farm tool components. *Agr. Engin.* 32:143-147. Mar. 1951. 58.8 Ag83  
Ductile cast iron.
- 46597 GONÇALVES, P. A. Massey Harris agricultural machinery used in rice growing in Lake Charles. (In Portuguese.) *Lav. Arroz.* 5(49):36. Jan. 1951. 59.8 L39
- 46598 GORBATOV, P. P. Machines for the cultivation of rubber plants. (In Russian.) *Sel'khoz mashina* 1950(11):5-7. Nov. 1950. 58.8 Se42
- 46599 HARRIS, H. Agricultural equipment for everyone. (In Italian.) *Colt. e Gior. Vinic. Ital.* 97:19-21. Jan. 31, 1951. 16 C72  
Work of International Harvester Company.
- 46600 HAYRINEN, T. Farmers own a few factories. *Coop. Builder* 26(13):6-8. Mar. 29, 1951. 280.28 C7827  
Equipment manufacture.
- 46601 IMPLEMENT RECORD. Far Western farm equipment directory, 1951. *Impl. Rec.* 48(4), 94 p. Mar. 20, 1951. 58.8 Im73
- 46602 IVANOV, A. L. M. Frolov's mechanical unloader for trucks. (In Russian.) *Mashinno-Traktornaya Sta.* 10(10):24-28. Oct. 1950. 58.8 M11
- 46603 LARDINELLI, G. Mechanization of agriculture, powerful factor in our economy. (In Italian.) *Voce di Padova* 40(5):4. Feb. 3, 1951. 16 V85
- 46604 LILES, J. L. Peanut mechanization. *Fed. Reserve Bank Atlanta. Mon. Rev.* 36:13-16. Feb. 28, 1951. 284.8 F31A
- 46605 MCHARDY, D. N. Russia shows her machinery; Soviet designers plan in the blue-print room for large working widths—but what is the performance in the field? *Power Farmer* 6(4):51, 53. Apr. 1951. 58.8 P872
- 46606 MACHWIRTH, O. Das Kartoffelkulturgerät. *Bas-Rhin Agr.* 6:113. Mar. 10, 1951. 14 B29
- 46607 MACKIE, J. Machine economies in man-power; need labour be displaced? *Farming News & No. Brit. Agr.* 103:24-25. Jan. 1, 1951. 10 N82  
Mechanization of British agriculture.
- 46608 MAGEE, K. L. A rapid-transfer engine unit for farm machines. *Agr. Engin.* 32:155-156. Mar. 1951. 58.8 Ag83
- 46609 MAIER, E. A. Cane hoist. *Sugar J.* 13(10):14. Mar. 1951. 65.8 Su391
- 46610 MÅNSSON, E. Machine investment of 1.6 million crowns; Östergötland's machine stations during 1950. (In Swedish.) *Lantmannen* 35:195-197. Mar. 10, 1951. 11 L234
- 46611 MARCHAL, H. Evolution de la motoculture en France. *Motorisation Agr.* 6:58-59. Feb. 1951. 58.8 M85
- 46612 MARCHESINI, G. Professional industrial schools at the Show of Agriculture and Agricultural Mechanics. (In Italian.) *Rass. Econ. del Polesine (n.s.)* 4(11/12):231-233. Nov./Dec. 1950. 280.8 R183
- 46613 MEEK, W. E., and EWING, B. B. Esquemas lineales para aperos agrícolas. *Hacienda* 46(3):36-37. Mar. 1951. 6 H11
- 46614 MENAT, J. La mécanisation en riziculture. *Rev. Internat. des Prod. Colon.* 26:31, 33-35. Feb. 1951. 286.8 R326
- 46615 MENDOZA, A. The applicability of mechanized farming in the Philippines. *Agr. & Indus. Life* 13(2):4, 38. Feb. 1951. 25 Ag8
- 46616 MULLIKEN, P. M. Stresses need for adequate farm equipment and supplies. A statement to the Special Subcommittee on Fertilizer and Farm Machinery of the Committee on Agriculture, House of Representatives, March 20. *Farm Equip. Retailing* 11(4):40, 56, 60, 64. Apr. 1951. 58.8 F2292
- 46617 MUNTER, E. L. Equipment and its use. *Veg. Growers Assoc. Amer. Annu. Rpt.* 1950:242-250. 81 V52
- 46618 NATIONAL INSTITUTE OF AGRICULTURAL ENGINEERING. Report RT 35-37. West Park, Silsbee, 1950. 58.9 N214R  
Reports on tests of various agricultural equipment made in cooperation with the Scottish Machinery Testing Station.
- 46619 OLIVIER, P. L'expérimentation dans le domaine du machinisme agricole. *Cong. Agr. Naz. Atti* 1948:147-154. 1950. 27 C7625
- 46620 PENCE, H. B. How farm equipment industry management can face today's three challenges. *Impl. Rec.* 48(4, i.e. 5):19-20, 36. Apr. 1951. 58.8 Im73
- 46621 ROSE, O. S. The reduction of spring labour in sugar beet. *Farm Mech.* 3:46-48. Feb. 1951. 58.8 B772
- 46622 SACK, W. Recent farm machinery developments in Germany. *Agr. Engin.* 32:159-160. Mar. 1951. 58.8 Ag83
- 46623 SARAIEV, I. New stage in the completion of the complex mechanization of cotton culture. (In Russian.) *Mashinno-Traktornaya Sta.* 10(10):4-7. Oct. 1950. 58.8 M11
- 46624 SCOTTON, M. Influence of mechanization on cultural technique. (In Italian.) *Cong. Agr. Naz. Atti* 1948:335-340. Ref. 1950. 27 C7625
- 46625 SHABALIN, N. The great structures of communism and mechanization of agriculture. (In Russian.) *Voprosy Ekon.* 1950(11):3-13. Nov. 1950. 280.8 V89  
Includes hydroelectric power plants.
- 46626 SMALL, C. J. Agricultural machinery displayed at international exhibition in Belgium. *Foreign Trade* 9:564-565. Apr. 7, 1951. 286.8 C162
- 46627 SODERER, J. Vernünftige mechanisierung im bäuerlichen Betrieb. *Neue Mitt. f. die Landwirt.* 6:161-162. Mar. 17, 1951. 18 N39  
Germany.
- 46628 STEFANELLI, G. Correlation between size of farm and mechanization. (In Italian.) *Cong. Agr. Naz. Atti* 1948:213-249. 1950. 27 C7625
- 46629 TASCHERI, E. Observations on mechanization of Italian agriculture. (In Italian.) *Cong. Agr. Naz. Atti* 1948:273-296. 1950. 27 C7625
- 46630 U. S. BUR. OF PLANT INDUSTRY, SOILS AND AGRICULTURAL ENGINEERING. Second annual report of research accomplishments in farm machinery and equipment by public research agencies of the State agricultural experiment stations and United States Department of Agriculture. U. S. Bur. Plant Indus., Soils, & Agr. Engin. *Agr. Engin. Inform. Ser.* 102, 52 p. Dec. 19, 1950. 1.9 R5311
- 46631 VILLARD, A. A. Le XXIII Salon de la Machine Agricole; ce qu'est le Salon de la Machine Agricole. *Agr. Prat.* 115:72-74. Feb. 1951. 14 J82  
France.
- 46632 WALKER, H. B. Industrialization of agriculture offers challenge; highly mechanized large farms are most efficient producers, but there is still a place for the family farm. *Impl. Rec.* 48(3):21-22. Mar. 1951. 58.8 Im73
- 46633 WENDELL, E. A. Auger types for farm machines. *Agr. Engin.* 32:167-168. Mar. 1951. 58.8 Ag83  
Screw-type conveyers.
- 46634 WESETH, G. Farm mechanical readiness. (In Norwegian.) *Norsk Landbr.* 17:81-84. Mar. 2, 1951. 11 N8122  
Purchase and maintenance of equipment.
- 46635 WRIGHT, S. J. Farm implements & machinery. *Roy. Agr. Soc. Eng. J.* 111:155-169. Ref. 1950. 10 R81  
Research.

#### Animal Husbandry Equipment

- 46636 CARNAT, G. Le fer à cheval dans l'histoire et l'archéologie. *Ann. de Méd. Vét.* 94:711-720. Dec. 1950. 41.8 An78
- 46637 DAVID, C. Petit memento sur l'équipement "laitier" à la production. *Génie Rur.* 44:104-106. Mar. 1951. 58.8 Au8
- 46638 FREIDENBERGER, W. Holland—ein Beispiel für den melkmaschinenersatz. *Neue Mitt. f. die Landwirt.* 6:91-92. Feb. 10, 1951. 18 N39
- 46639 GEDDES, H. J. Sydney engineer invents milk meter for releaser plants. *Milk Bd. J.* 1:652. Dec. 15, 1950. 44.8 M5924  
Recorder for attachment to a milking machine.
- 46640 GOODING, P. H., NESBIT, W. B., and THAXTON, J. E. Turkey production equipment. *Clemson Agr. Col. S. C. Ext. C.* 297, rev., 30 p. Feb. 1951. 275.29 So8E
- 46641 KRUEGER, W. C. Cable heated brooders are practical. *Elect. Farm* 24(3):10-11. Mar. 1951. 335.8 EL27



46642 MOFFETT, B. W. Infrared brooding is tried by poultrymen; latest methods of baby chick brooding involves simple use of electric lamps. *Farm & Gard.* [Watertown] 1951:1-2. Feb.24,1951. 6 F234

46643 NEITZKE, C. Heat lamps help make brooding easy. *Dairyland News* 21(3):6,12. Mar.1951. 280.28 W752

46644 NIKULITSKIĬ, I. Practice of Bratsevskafa poultry factory. (In Russian.) *Mfasnafa Indus. SSSR*. 21 (5):81-82. Sept./Oct.1950. 50.8 M58

Poultry feeding with pneumatic machine.

46645 "NO-HANDS" feed handling; a new system designed to bring grain from the field, dry it, grind it, mix it, and deliver it to the cows. All mechanically done. *Country Gent*. 121(4):23,106,108. Apr.1951. 6 C833

46646 PREVO, A. Machine feeding of poultry. (In Russian.) *Mfasnafa Indus. SSSR*. 21(5):77-80. Sept./Oct. 1950. 50.8 M58

46647 QUIGLEY, G. D. Infra-red-super modern brooding! *Md. Poultry Ybk.* 1951:33. 47.9 M36

Heating

46648 SCHLAMMAN, E. New labor saving devices are boon to sheep industry. *N. Mex. Stockman* 16:73. Jan. 1951. 49 N462

46649 TAYLOR, J. Installation and maintenance of dairy steam raisers. *Farm Mech.* 3:4-6. Jan.1951. 58.8 B772

46650 WEGGE, W. We ask 300 hatcherymen: What about equipment? *Hatchery & Feed* 25(3):15,43. Mar. 1951. 47.8 H28

46651 WORTHINGTON, J. Turning on the heat. *Farm. Wk.* [London] 34(15):69. Apr.13,1951. 10 F2226

Heating the poultry brooder.

#### Cultivation and Tillage Equipment

46652 ALPE, A. Determination of the principal returns in mechanized plowing. (In Italian.) *Cong. Agr. Naz. Atti* 1948:155-162. 1950. 27 C7625

46653 AMARAL, J. B. DE S. Agriculture and the domestic hoe industry. (In Portuguese.) *Soc. Rur. Bras. Rev.* 31(362):16-20,22. Jan.1951. 9.2 B733

46654 BERMEJO ZUAZUA, A. La raja. *Agricultura* [Madrid] 20:60-63. Feb.1951. 15 Ag84

46655 COCHRANE, R. H. Land preparation; traditional machinery and the seed bed. *Power Farming Austral. & New Zeal.* 60(1):33,35,37,39. Jan.1951. 58.8 P87

46656 GONÇALVES, P. A. Harrows used in Crowley, Louisiana. (In Portuguese.) *Lav. Arroz.* 5(49):33,35-36. Jan.1951. 59.8 L39

46657 HIGGINS, F. H. Soil chiseling goes back over century. *Calif. Farmer, North.Ed.* 194:282. Mar.24,1951. 6 C126

Tillage equipment.

46658 LÖHR, L. Bodenbearbeitung am hang im falllinien-seilzug. *Tech. f. Bauern u. Gärt. Ausg. A* 3:5-8. Jan.10,1951. 58.8 T223

46659 M'EWEN, E., and BEDI, G. S. The effect of speed on ploughing. *Farm Mech.* 3:33-34. Jan.1951. 58.8 B772

46660 RIVAS TAGLE, A. Rastras de picos, su construcción casera. *Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Almanaque Agr. de la Repub.* . Dominicana 1951:73-76. 1950? 8 D714

46661 WILSON, R. W. The clip-oil for controlling tobacco suckers. *N. C. Agr. Expt. Sta. Dept. Agr. Engin. Inform. Ser.* 3,16 p. Oct.1950. 58.9 N812

An experimental device for applying chemicals. The device is under development by the North Carolina Agricultural Experiment Station.

#### Fertilizer and Seed Distributors

46662 ALPE, A. Re-commencement of efforts to improve rice transplanters. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 5:283-287. 1951. 16 An76

English summary.

46663 BILLING, E. W. Modifications to manure spreaders. *Farm Mech.* 3:69. Feb.1951. 58.8 B772

46664 DAVIS, J. F., and others. A transplanter fertilizer-placement attachment designed for organic soil investigations. *Mich. Agr. Expt. Sta. Q. B.* 33:257-261. Feb.1951. 100 M58S

C. M. Hansen, G. A. Cumings, W. C. Hulburt, and D. B. Eldredge, joint authors.

46665 ELLERN, A. The fertilizer drill. (In Hebrew.) *Hassadeh* 31:149-150. Jan.1951. 26 H27

46666 FUTRAL, J. G., and ALLEN, R. L. Development of a high-speed planter. *Agr. Engin.* 32:215-216. Apr.1951. 58.8 Ag83

For peanuts.

46667 HOOGLAND, E. J. A. It is time for the sowing machines. (In Dutch.) *Overijsselsch Landtbl.* 33(1591):5. Feb.10,1951. 12 Ov2

46668 MAGEE, A. I. Tractor-mounted four-row plot seeder. *Sci. Agr.* 31:120-122. Mar.1951. 7 Sci2

46669 MANURE handling. *Farm Mech.* 2:370-372. Oct.1950. 58.8 B772

Equipment.

46670 WALTHER, R. Nur eine schraubendrehung. *Neue Mitt. f. die Landwirt.* 6:151. Mar.10,1951. 18 N39

Seed drills.

46671 WICKENDEN, H. Seed producers can help drill designers. *Farm Mech.* 3:70-71. Feb.1951. 58.8 B772

#### Harvesting Equipment

46672 ANIANSSON, G., NOREN, O., and HARALDSON, A. Tanksystem vid skördetröskning. Tank system of combine harvesting. *Jordbrtek. Inst. Meddel.* 234,91 p. 1951. 58.9 J762

English summary.

46673 BEET harvesters. *Farm Mech.* 2:407-409. Nov./Dec.1950. 58.8 B772

46674 BERGLUND, N. Tank system or bagging in combine threshing? (In Swedish.) *Lantmannen* 35:192-194. Mar.10,1951. 11 L234

46675 BLACKWELDER, E. F. Small model Marbeet harvester wins its spurs; scope of mechanical beet harvesting extended by major modification of large machine. *Impl. Rec.* 48(3):27. Mar.1951. 58.8 Im73

46676 BRAGONI, F. Motorizing of harvesting equipment. (In Italian.) *Cong. Agr. Naz. Atti* 1948:309-320. 1950. 27 C7625

46677 CASHMORE, W. H. Adelantos en la recogida de la patata. *Ceres* [Valladolid] 16(176):8-9. Feb.1,1951. 15 C33

Equipment.

46678 DENCKER, C. H. Wo stehen wir in der technisierung der kartoffelernte? *Tech. f. Bauern u. Gärt. Ausg. A* 3:11-12,23. Jan.10,1951. 58.8 T223

46679 FLEMING, J. D. Stripper harvesting of cotton. *Okla. Agr. Col. Ext. C.* 500,4 p. n.d. 275.29 Ok41C

46680 GERASIMOV, S. A., and PAVLOV, V. D. Svekloborochnyi kombajn SPG-1 [SPG-1 sugar beet harvesting combine]. *Moskva, Gos. Nauch.-Tekhn. Izd-vo Mashinostroitel'noi Lit-rv.* 1950. 155 p. 58 G312

46681 KAHLER, K. Hülsefrucht- und maisdrusch. *Neue Mitt. f. die Landwirt.* 6:8. Jan.6,1951. 18 N39

46682 KLEIMANN. Sammelerntemaschinen für zucker rüben. *Neue Mitt. f. die Landwirt.* 6:67-68. Feb.3,1951. 18 N39

46683 KHOKHLOV, E. I., and POPOV, B. A. Achievements of SKB at the Ukhtomskil factory in hay harvesting machine construction. (In Russian.) *Sel'khoz mashina* 1950(11):8-11. Nov.1950. 58.8 Se42

46684 KÖHNE. Wünsche der landwirtschaft zur mechanisierung der kartoffelernte. *Neue Mitt. f. die Landwirt.* 6:120-121. Feb.24,1951. 18 N39

46685 LINDSAY, G. G. The harvesting of cereal crops with special reference to machines in present use. *Edinb. & East Scot. Col. Agr. B.* 25:48-55. Aug.1950. 103 Ed4E

Includes discussion.

46686 LJONES, B. Fruit ladders. (In Norwegian.) *Gartneryrket* 41:154-155. Mar.3,1951. 80 G1938

46687 LUCKNER, H., GRAF. Ist mähadeschen arbeitswirtschaftlich am günstigsten? *Neue Mitt. f. die Landwirt.* 6:196-198. Mar.31,1951. 18 N39

Germany.

46688 MAUGHAN, G. L. Points you should watch when buying grass-gathering equipment. *Dairy Farmer* 24(2):19,22. Feb.1951. 44.8 D1414

46689 MECHANICAL harvesting of asparagus under-going tests. *West. Canner & Packer* 43(3):53-54,56. Mar. 1951. 286.83 W522

46690 MILLER, H. F., and others. Mechanical harvesting of cotton in Texas. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1337,15 p. Mar.8,1951. 100 T31P

H. P. Smith, D. L. Jones, J. R. Johnston, D. I. Dudley and E. B. Hudspeth, joint authors.

46691 POTATO harvesters. *Farm Mech.* 2:420-421. Nov./Dec.1950. 58.8 B772

46692 ROMASHKIN, N. A reinforced chain conveyer for the automotive S-4 combine. (In Russian.) *Tekhsosvety MTS* 11(47/48):14. 1950. 58.8 T233



- 46693 SCHRÖDER-ETZDORF, M. Der wert des mährisches. Neue Mitt. f. die Landwirt. 6:6-7. Jan.6, 1951. 18 N39
- 46694 SEGLER, G. Die technisierung der rauhutter-erte. Deut. Landwirt. Presse 74:44-45. (Cont.) Feb.17, 1951. 18 D482
- 46695 SEISE, A. There are too many types of scythes. (In Finnish.) Teho 1951(1):12-13. 20 T98  
English summary, p. 50.
- 46696 SIMBRIGER, F. Zuckerrübenenernte im fließ-verfahren. Neue Mitt. f. die Landwirt. 6:99-100. Feb.17, 1951. 18 N39  
Mechanization.
- 46697 TKACHENKO, M. D. Mechanization of harvest-ing and threshing of castor beans with non-splitting capsules. (In Russian.) Sel'khoz mashina 1950(11):12-13. Nov.1950. 58.8 Se42

#### Land Clearing Equipment

- 46698 MACBRIDE, J., and others. Mechanised land clearing; a survey of four years' experience in Tangan-yika. World Crops 3:89-94. Mar.1951. 281.8 W892
- J. E. Capell, W. Cathie, D. R. Kaufmann, and A. H. Bunt-ing, joint authors.

#### Processing Equipment Used on the Farm

- 46699 BARAGAR, A. E., and DOWNS, P. A. Simple equipment for the pasteurization of milk. Nebr. Agr. Col. Ext. E. C. 9990, 8 p. Mar.1951. 275.29 N272Ex
- 46700 BOIKO, G. F. Electromagnetic EMS-1 seed cleaning machine. (In Russian.) Sel'khoz mashina 1950 (11):13-14. Nov.1950. 58.8 Se42
- 46701 CURMAN, J. It is cheaper to build than to buy ready made drier. (In Swedish.) Lantmannen 35:243-244. 248. Mar.24, 1951. 11 L234  
Planning of grain dryer.
- 46702 DAVIS, R. B., JR., and others. Chemical composition of hay in barn drying. Agr. Engin. 32:218-220, 223. Apr.1951. 58.8 Ag83
- V. H. Baker, P. M. Reeves, J. F. Eheart, and W. N. Linkous, joint authors.
- 46703 ERLÉNBAACH, H. J. Co-operative grass dry-ing; pioneer plant in Suffolk. Farm Mech. 3:35. Jan.1951. 58.8 B772
- 46704 FINN-KELCEY, P. Some technical aspects of grain storage and drying. Farm Mech. 3:27-29. Jan.1951. 58.8 B772
- 46705 GILDEHAUS, E. J. Best milk we ever pro-duced. Elect. Farm 24(3):12, 14. Mar.1951. 335.8 EL27  
Milk cooling equipment.
- 46706 GLADKOV, N. G. Zernoochistitel'nye mashiny [Grain cleaning machines]. Leningrad, Mashgiz, 1950. 319 p. 58 G45
- 46707 HANSEN, P. B. Is the mill in order? (In Danish.) Dansk Landbr. 70:68-69. Feb.8, 1951. 280.28 V91
- 46708 HEAT exchange principle in new dryer. Farm Mech. 2:426. Nov./Dec.1950. 58.8 B772
- 46709 HIGGS, J. W. Y. Studies in farm mechaniza-tion. Farm Mech. 2:427. Nov./Dec.1950. 58.8 B772
- 46710 JOHNSON, R. E. Mechanical bale shaker. Elect. Farm 24(2):32-33. Feb.1951. 335.8 EL27  
For breaking up bales of hay and straw.
- 46711 KANTER, J. I. Stalk shredder. (In Portuguese.) Fazenda 46(2):39. Feb.1951. 6 H11P  
Used particularly for corn and cotton stalks.
- 46712 KAYSER, E. Künstliche heutrocknung. Deut. Landwirt. Presse 74:52, 67. Feb.17-Mar.3, 1951. 18 D482
- 46713 KING, G. W. We took the plunge and bought a grass drier. Dairy Farmer 24(4):20-21. Apr.1951. 44.8 D1414
- 46714 LLOYD, M. H. Crop curing comes of age; New York State farmer's recognition of value of mow cured hay is typical of dairy regions. Elect. Farm 24(4):7-10. Apr.1951. 335.8 EL27
- 46715 LLOYD, R. Equipment for co-operative dry-ing. II. In the field. Farm Mech. 2:356-358. Oct.1950. 58.8 B772  
Grasses.
- 46716 MCINTOSH, F. H. R. My farm pivots round this small grass drier. Dairy Farmer 24(3):26. Mar. 1951. 44.8 D1414
- 46717 NATION, H. J. An application of shakerless threshing. Farm Mech. 3:30-32. Jan.1951. 58.8 B772
- 46718 NEWLIN, G. M. Batch drier makes top hay! N. J. Farm & Gard. 22(4):40-41. Apr.1951. 6 G162

- 46719 OHLSON, N. E. Standardization of threshing machines. (In Swedish.) Lantmannen 35:170. Mar.3, 1951. 11 L234
- 46720 PACKMAN, D. J. Cost of operating field chop-pers. N. Y. Agr. Col. Farm Econ. 179:4655-4658. Mar. 1951. 280.8 C812
- 46721 ROBINSON, D. Equipment for processing of farm crops. Rice J. 54(3):27-30. Mar.1951. 59.8 R36
- 46722 SCHARSCHMIDT, E. Hundert jahre dresch-maschinenbau in Deutschland. Eine schau der neuesten deutschen konstruktionen. Tech. f. Bauern u. Gärt. Ausg. A 2:593-596. Oct.25, 1950. 58.8 T223
- 46723 SCHREIBER, R. Probleme der künstlichen trocknung von nahrungs- und futtermitteln. Tierärztl. Umschau 6:90-93. Mar.1951. 41.8 T445
- 46724 STERE, J. B. Fuel heat can improve drier performance. Elect. Farm 24(4):10-11, 14. Apr.1951. 335.8 EL27  
Farm crop driers.
- 46725 WATKINS, J. M., and CHÁVEZ VIAUD, M. Buscando forrajes para la seca. Rev. Ganad. [Habana] 11(4):37-43. Apr.1951. 49 R321
- 46726 WULFFEN, VON. Reutern wir richtig? Neue Mitt. f. die Landwirt. 6:137-138. Mar.3, 1951. 18 N39

#### Repair, Maintenance, and Construction Equipment

- 46727 FARM-WELDED work savers; are you doing some jobs the hard way? Wasting backwork and valuable time? Maybe you can tailor-make equipment to do your work easier, faster or better. Look how these farmers did it with welding. Country Gent. 121(4):34-35, 77. Apr. 1951. 6 C833
- 46728 FOSS, E. W. The farm shop and its equipment. N. Y. Agr. Col. Cornell Ext. B. 807, 16 p. Feb.1951. 275.29 N48E
- 46729 KAPITONOV, S. Use of multiple-purpose tool for repair. (In Russian.) Mashinno-Traktornafá Sta. 10 (10):44-45. Oct.1950. 58.8 M11
- 46730 KEEPERS, W. F. Electric-powered barn clean-ers. Rur. New-Yorker 101:264, 270. Apr.7, 1951. 6 R88
- 46731 KEEPERS, W. F. Owners put "ok" on barn cleaners. (Excerpts.) Farm Equip. Retailing 11(4):14-15, 78, 80, 82. Apr.1951. 58.8 F2292
- 46732 MEYER. Maschinenschuppen und werkstatt. Neue Mitt. f. die Landwirt. 6:56-57. Jan.27, 1951. 18 N39  
Germany.
- 46733 NORTHERN IRELAND. MINISTRY OF AGRI-CULTURE. Long life to machines and implements. North. Ireland. Min. Agr. Mon. Rpt. 25:328-331. Mar. 1951. 256.13 Ag82M
- 46734 SERS, J. Le graissage sous pression à la ferme. Rustica 24:113. Feb.11, 1951. 14 R92  
Equipment.

#### Spraying and Dusting Equipment

- 46735 AKESSON, N. B. An expert's view on the design and specifications of ground weed control equip-ment. Farm Impl. News 72(6):38-39, 76-78. Mar.25, 1951. 58.8 F22
- 46736 AKESSON, N. B. What the dealer needs to know about weed sprayers. Impl. Rec. 48(3):39-40, 42, 47. Mar.1951. 58.8 Im73
- 46737 AYARS, J. S. Let cattle spray themselves. Farm J. 75(5):27. May 1951. 6 F2212  
Equipment.
- 46738 BERLIE, J. Les traitements antiparasitaires. Colon Franç. de Tunisie (ser.7)60(2141):5. Apr.22, 1950. 24 C712  
Equipment for spraying livestock.
- 46739 BONDE, R., PEIKERT, F. W., and RHOADS, R. B. Low gallonage high concentration sprayer for the control of potato diseases and insects. Maine. Agr. Expt. Sta. Mimeog. Rpt.18, 6 p. Mar.1951. 100 M28M
- 46740 BURRELL, A. B. Converting large air-blast sprayers for application of semi-concentrates. N. J. State Hort. Soc. Hort. News 32:2348-2349, 2351. Feb.1951. 81 N46
- 46741 COHEN, G. Small-volume sprayers for weed control. (In Hebrew.) Hassadeh 31:186-188. Jan.1951. 26 H27
- 46742 FICHT, J. Machines to control weed growth on roadsides and ditch banks. West. Canad. Weed Con-trol Conf. Proc. 3:99-102. Nov.30 1949. 79.9 W522
- 46743 GUILLOU, R. Friction in spray hoses, pipes, and fittings. Hawaii. U. Agr. Ext. C. 304, 4 p. Feb.1951. 275.29 H312Ac
- 46744 HICK, E. High- versus low-volume spraying. Farm Mech. 3:7-9. Jan.1951. 58.8 B772



- 46745 MILLER, J. M., and ISLER, D. A. Dual spray equipment for airplane spraying tests. U. S. Bur. Ent. & Plant Quar. ET-294, 4 p. Mar. 1951. 1.9 En83Et
- 46746 NOORDHOFF, L. J. A ground-spray rig for soybean defoliants. Agr. Leaders' Digest 32(4):20-21. Apr. 1951. 275.28 Am3
- 46747 PETERSON, C. E. Weed control in onions with a shielded nozzle sprayer. Down to Earth 6(4):2-4. Spring 1951. 381 D75
- 46748 QUATTLEBAUM, V. K. Ground equipment and techniques for applying insecticides. Cotton Insect Control Conf. Proc. 4:49-51. 1950. 423.9 C82
- 46749 SUTER, R. C. Efficiency in spraying apples during 1949. N. Y. Agr. Col. Farm Econ. 179:4658-4660. Mar. 1951. 280.8 C812
- Equipment.
- 46750 WOOD, W. S., and OATES, W. J. A general purpose farm sprayer. Okla. Agr. Expt. Sta. B. B-363, 14 p. Feb. 1951. 100 Ok4

### Vehicles

- 46751 BESEDNOV, M., and DANIL'CHENKO, V. Electric tractors on the cotton growing farms. (In Russian.) Mashinno-Traktornaya Sta. 10(10):21-24. Oct. 1950. 58.8 M11
- 46752 BIGGAR, C. M. Tractor care pays well. Natl. 4-H News 29(4):38. Apr. 1951. 275.28 N212
- 46753 BONDON, J. Essais des pneumatiques tracteurs en Allemagne. Culture 26:13-17. Feb. 1951. 14 C894
- 46754 BOURDELLE, J. Remarques et conclusions partielles sur la mesure des pertes d'énergie présentées par les roues d'un tracteur. Cong. Agr. Naz. Atti 1948:115-118. 1950. 27 C7625
- 46755 BRODELL, A. P. Farm use of petroleum fuel climbs 10 percent a year. Agr. Situation 35(3):5-6. Mar. 1951. 1 Ec7Ag
- 46756 BROWN, J. C. Wheeled power is better; garden tractors offer cheap, timesaving, handy horsepower. Amer. Poultry J. 82(2):20-24, 53. Feb. 1951. 47.8 Am32
- 46757 CARENA, A. Technical testing standards for agricultural tractors. (In Italian.) Cong. Agr. Naz. Atti 1948:165-172. 1950. 27 C7625
- 46758 COLLINS, E. V. A new hitch for rear-mounted tractor equipment. Agr. Engin. 32:216-217. Apr. 1951. 58.8 Ag83
- 46759 COUTIAUX, P. Tracteurs et chevaux; l'évolution vers le plein emploi des tracteurs aux U.S.A. et dans le monde peut guider l'agriculture française. Motorisation Agr. 6:75-78. Feb. 1951. 58.8 M85
- 46760 CRADOCK, T. H. The water buffalo. Farm Mech. 3:57-61. Feb. 1951. 58.8 B772
- Type of track-laying tractor.
- 46761 DAUBRESSE, P. Modes et techniques des véhicules agricoles. Motorisation Agr. 5(52/53):5-6. Dec. 1950/Jan. 1951. 58.8 M85
- 46762 DAVIS, P. B. For your delivery problem—design for truck bodies. Hatchery & Feed 25(4):12, 63-64. Apr. 1951. 47.8 H28
- For chicks.
- 46763 DUBROVSKIĬ, A., and BOBROV, N. Tracton dynamometers for machine-tractor stations. (In Russian.) Mashinno-Traktornaya Sta. 10(10):28-31. Oct. 1950. 58.8 M11
- 46764 FARM IMPLEMENT NEWS CO. The tractor field book, with power farm equipment specifications. The standard reference book of the industry for the design, production and sale of tractors and power farm equipment. Chicago, 1951. 480 p. 58 T672
- Includes Nebraska tractor tests. Directories.
- 46765 FERBERG, B. Unit method of tractor repair. (In Russian.) Mashinno-Traktornaya Sta. 10(10):32-34. Oct. 1950. 58.8 M11
- Interchange of parts.
- 46766 GOROZHANKIN, V. Causes for increased consumption of crankcase oil by D-54 Diesel engine. (In Russian.) Mashinno-Traktornaya Sta. 10(10):13-15. Oct. 1950. 58.8 M11
- 46767 HYDRAULIC systems. 1-2. Farm Mech. 2:403-406; 3:65-68. Nov./Dec. 1950, Feb. 1951. 58.8 B772
1. The Ferguson; 2. The David Brown.
- 46768 KAYSER, E. Die fahrbare kraftzentrale. Tech. f. Bauern u. Gärt. Ausg. A 2:584-586, 649-651; 3:47-49. Oct. 25, Nov. 25, 1950, Jan. 25, 1951. 58.8 T223
- 46769 KELLNER, R. Der leichte kleindieselmotor—eine landwirtschaftliche notwendigkeit. Tech. f. Bauern u. Gärt. Ausg. A 2:490. Sept. 10, 1950. 58.8 T223
- Tractors.
- 46770 KIELLAND-GYRUD, C. Hydraulic loading apparatus for tractors. (In Norwegian.) Norsk Landbr. 17:105-106. Mar. 16, 1951. 11 N8122
- 46771 KLEBER-COLOMBES. Le problème du roulage en agriculture; fabrication des pneumatiques. Motorisation Agr. 5(52/53):19-25. Dec. 1950/Jan. 1951. 58.8 M85
- 46772 KLOEPPEL, R. Der einsatz schlepperbezogener pflanzgeräte. Deut. Landwirt. Presse 74:47-48. Feb. 17, 1951. 18 D482
- 46773 KLOTH, W. Der bauaufwand von schlepper und arbeitsgerät. Cong. Agr. Naz. Atti 1948:119-128. 1950. 27 C7625
- 46774 KOMAROV, A., and KOSTROVSKIĬ, G. Peculiarities of dismantling and assembling S-80 tractor. (In Russian.) Tekhsoveti MTS 11(47/48):1-13. 1950. 58.8 T233
- 46775 KOVALEV, M. How to increase length of service of antiknock cap in SKHTZ-NATI tractor engine. (In Russian.) Mashinno-Traktornaya Sta. 10(10):17-18. Oct. 1950. 58.8 M11
- 46776 KUHN, F. Die ackerschlepperindustrie 1950. Neue Mitt. f. die Landwirt. 6:119. Feb. 24, 1951. 18 N39
- Germany.
- 46777 LITVINENKO, T. Repair of worm gear of SKHTZ-NATI tractor camshaft. (In Russian.) Mashinno-Traktornaya Sta. 10(10):45-46. Oct. 1950. 58.8 M11
- 46778 LODIGIANI, L. Development of semidiesel motors in agriculture. (In Italian.) Cong. Agr. Naz. Atti 1948:173-178. 1950. 27 C7625
- 46779 MCCULLY, B. H. Current problems of petroleum cooperatives from the standpoint of a refinery. Amer. Coop. 22:442-443. 1950. 280.29 Am3A
- 46780 MARCHAL, H. La technique moderne de la construction du matériel de motoculture. Cong. Agr. Naz. Atti 1948:139-145. 1950. 27 C7625
- 46781 MER, I. Increasing length of service of crankshafts and adjustable bearings of engines. (In Russian.) Mashinno-Traktornaya Sta. 10(10):49-54. Oct. 1950. 58.8 M11
- 46782 MIGNOTTE, F. La puissance d'un tracteur. Agriculture [Paris] 15(121):49-51. Feb. 1951. 14 A8223
- 46783 MILLER, C. Current problems of petroleum cooperatives from the standpoint of a local manager. Amer. Coop. 22:439-441. 1950. 280.29 Am3A
- 46784 MONNIER, R. Liaison du tracteur avec ses outils. Motorisation Agr. 6:67, 69, 71. Feb. 1951. 58.8 M85
- 46785 NERLI, N. Contribution of small tractors to mechanization of agriculture. (In Italian.) Cong. Agr. Naz. Atti 1948:179-200. 1950. 27 C7625
- 46786 PALT, J., and ELLERN, S. J. One year's agricultural aviation in Israel. World Crops 3:104-105. Mar. 1951. 281.8 W892
- 46787 PARFENIUK, A. How to lengthen the time between fillings of SKHTZ-NATI tractor bearings. (In Russian.) Mashinno-Traktornaya Sta. 10(10):35-36. Oct. 1950. 58.8 M11
- 46788 PIETROGRANDE, Z. Possibilities of numerically increasing tractors and threshing machines in Italy. (In Italian.) Cong. Agr. Naz. Atti 1948:201-212. 1950. 27 C7625
- 46789 POUPINEL, H. Notes d'un jeune agriculteur sur les transports agricoles. Motorisation Agr. 5(52/53):7-18. Dec. 1950/Jan. 1951. 58.8 M85
- Carts, wagons, and trucks.
- 46790 RAGHAVACHARIA, K. Tractor cultivation. Agr. Econ. 2(3):13-14. Nov. 1950. 281.8 Ag832
- India.
- 46791 REPORT on the International Garden Tractor Competition. (In Italian.) Cong. Agr. Naz. Atti 1948:613-661. 1950. 27 C7625
- 46792 REYNOLDS, P. A. Tractor maintenance. 2-4. Grower [London] 35:437-438, 555, 657. Mar. 3, 17, 31, 1951. 286.83 M34
2. Carburetors need right setting; 3. Proper lubrication adds years of life; 4. Valve grinding is all important.
- 46793 ROSSINI, R. Evolution of devices for raising and regulating operating tools attached to tractors. (In Italian.) Cong. Agr. Naz. Atti 1948:321-334. 1950. 27 C7625
- 46794 RUATTI, G. Mechanical traction. (In Italian.) Almanacco Agr. (1951) 62:167-169. 1950. 16 AL6
- 46795 SCHAEFER-KEHNERT. Zur frage der ablösung der pferdezugkraft durch den schlepper. Neue Mitt. f. die Landwirt. 6:25-26, 40-41, 60-61. Jan. 13-27, 1951. 18 N39
- Germany.



46796. SHATILOV, V., and ZHARKOV, V. Attachments for repair of Universal tractor crankcase. (In Russian.) Mashinno-Traktornaya Sta. 10(10):36-40. Oct. 1950. 58.8 M11
46797. SVIRSHCHEVSKIY, B. S. Eksploataatsiya mashinno-traktornogo parka [Operation of the machine-tractor park]. Ed. 2, rev. and enl. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 503 p. (Uchebniki i Uchebnye Posobiya dlya Vysshikh Sel'skokhozyaystvennykh Uchebnykh Zavedeniy) 58 Sv32
46798. TASCHERI, E. The Diesel motor in agricultural traction. (In Italian.) Cong. Agr. Naz. Atti 1948:251-272. 1950. 27 C7625
46799. THEBIS, R. Umgang mit der stahlbatterie. Tech. f. Bauern u. Gärt. Ausg. A 2:699. Dec. 10, 1950. 58.9 T223
46800. TINGLEFF, N. The tractor in freezing weather. (In Danish.) Tolvmadsbladet 23:23-24. Jan. 1951. 11 T58
46801. TISHCHENKO, M. To improve the repair of agricultural gasoline engines. (In Russian.) Mashinno-Traktornaya Sta. 10(10):57-59. Oct. 1950. 58.8 M11
46802. TSYTSENKO, V. To improve the gadgets for taking apart and putting together caterpillar tractors. (In Russian.) Mashinno-Traktornaya Sta. 10(10):40-42. Oct. 1950. 58.8 M11
46803. UOTILA, P. J. Why tractor tires skid and how to prevent it. (In Finnish.) Teho 1950(12):22-30. 20 T98 English summary, p. 50.
46804. VALLES NADAL, L. Para los constructores de aeros; consideraciones acerca de la disposición de las rejillas en los cultivadores movidos por tractor. Cult. Mod. 34:17-18. Jan. 1951. 15 C89
46805. VEDENIAPIN, G. Method of changing crankcase oil and filling up. (In Russian.) Mashinno-Traktornaya Sta. 10(10):15-17. Oct. 1950. 58.8 M11
46806. VINEA, L. U. Considerations on the production of agricultural tractors. (In Italian.) Cong. Agr. Naz. Atti 1948:297-308. 1950. 27 C7625
46807. WARDROP, G. Parents of the modern tractor. Farmer & Stock-Breeder 65(3203):100. Mar. 13, 1951. 10 F228
46808. WOOD, L. B. 4-H boys study tractor upkeep. Fla. Grower 59(4):14-15. 28. Apr. 1951. 80 F6622

#### FARM STRUCTURES AND RURAL HOUSING

46809. BECHER, P. Hollow walls. (In Danish.) Dansk Landbr. 70:70-72. Feb. 8, 1951. 280.28 V91 In building construction.
46810. BOYD, J. S., and ROBINSON, H. E. Settling of poles used for farm buildings. Mich. Agr. Expt. Sta. Q. B. 33:275-279. Feb. 1951. 100 M58S
46811. FRISENDAHL, R. What should a service building cost? (In Swedish.) Lantmannen 35:176. Mar. 3, 1951. 11 L234
46812. OKKELS, S. The center [of operations] in and around our farm buildings. (In Danish.) Dansk Landbr. 70:55-56. Feb. 1, 1951. 280.28 V91
46813. PASFIELD, D. H. Buildings for machinery. Farm Mech. 3:23-26. Jan. 1951. 58.8 B772

#### Animal Shelters and Animal Service Buildings

46814. ADAMS, R. C. Qué es la moderna sala de ordeñar? Hacienda 46(3):72. Mar. 1951. 6 H11
46815. BODWELL, J. H. "Well" cooled hatchery. Elect. Farm 24(4):16-17. Apr. 1951. 335.8 EL27
46816. BOND, W. R. Modern farmer builds economic barn. Wood Preserv. News 29:21, 30. Feb. 1951. 300.8 W853
46817. DUCK, R. W. Beef cattle housing and [feeding] equipment. Rur. New-Yorker 101:188, 190. Mar. 3, 1951. 6 R88
46818. ELAM, F. L. Built-in efficiency; modern barn features pay off for Frank Peters. West. Dairy J. 7(5):14, 59-60. Mar. 1, 1951. 44.8 W524
46819. GILMAN, W. Farm fire produces round hen-house. New Eng. Homestead 124(3):5, 26. Feb. 10, 1951. 6 N442
46820. GULLICK, J. Refugio para animales en aerodromos; destinado a facilitar el intenso y creciente tráfico de animales por vía aérea. Rev. Ganad. [Habana] 11(4):24, 64. Apr. 1951. 49 R321
46821. HAFFERT, W. A., JR. Last word in a brooder house. N. J. Farm & Gard. 22(4):62, 64. Apr. 1951. 6 G162

46822. HUNTSINGER, R., and GOFF, A. New barn for the old. Farmer [St. Paul]. Gen. Ed. 69(7):9, 65. Apr. 7, 1951. 6 F2211
46823. JENKINS, H. Plan for comfort and you're planning for profits. Mo. Col. Farmer 43(5):7. Feb. 1951. 6 M691
- Poultry housing.
46824. JONES, R. E. Poultry house construction. Rur. New-Yorker 101:271-272. Apr. 7, 1951. 6 R88
46825. JUEL-BROCKDORFF, E. Barn sanitation. (In Danish.) Tolvmadsbladet 23:19-20. Jan. 1951. 11 T58
46826. KORSGAARD, V. Heat isolation and ventilation of the barn. (In Danish.) Dansk Landbr. 70:116-119. Mar. 8, 1951. 280.28 V91
46827. LE ROUX, P. Portable swine houses on the grape and fruit farm. (In Afrikaans.) Landbouweekblad 32(1647):19, 21. Feb. 7, 1951. 24 L232
46828. LEWIS, F. C. Dual purpose shelter serves for brooding and for range. Turkey World 26(4):20, 22-23, 69-70. Apr. 1951. 47.38 T84
46829. LÖFKEN, V. Vom hühnerstallbau. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:367-369. Mar. 8, 1951. 18 L2346
46830. MENDOZA, T. M. The floor-space requirements of broilers. Philippine Agr. 33:257-262. Apr./June 1950. 25 P542
46831. MERRILL, R., and others. The Idaho farm-flock laying house. Idaho. Agr. Col. Ext. C. 114, 16 p. Feb. 1951. 275.29 Id13C
- C. E. Lampman, C. F. Petersen, and O. K. Brown, joint authors.
46832. MILLER, J. P. Birds in the old barn. Wash. Farmer 76:235. Apr. 5, 1951. 6 R151
46833. MITCHELL, N. Engineering perfection vs. practical compromises in dairy barn ventilation. Agr. Engin. 32:207, 210. Apr. 1951. 58.8 Ag83
46834. MOORE, A. C. I'm not satisfied with my new folds. Poultry [London] 108:168. Feb. 27, 1951. 47.8 P869
46835. NEUY, D. Die bedeutung des geflügelstalles für die winterlegatätigkeit. Kleintierzüchter Tierbörse 4(53):1-2. Dec. 20, 1950. 49 K672
46836. PATERSON, R. Problems of management. 15. Siting the fixed [milking] bail. Farmers Wk. [London] 34(11):57. Mar. 16, 1951. 10 F2226
46837. PORTERFIELD, I. D., and others. A comparison of comfort and tie-chain stalls. J. Dairy Sci. 34:149-153. Feb. 1951. 44.8 J822
- G. Hyatt, Jr., D. P. Brown, and A. D. Longhouse, joint authors.
46838. STAPLETON, H. N. The application of experimental deviations to dairy stable ventilation. Agr. Engin. 32:206-207. Apr. 1951. 58.8 Ag83
46839. STEVENSON, G. Movable pens mean healthier calves. Your Farm 10(4):126-128. Apr. 1951. 6 Y8
46840. STOKKE, H. Short stall with partial barrier. (In Norwegian.) Landbrukstidende 57:30. Jan. 10, 1951. 11 L236
46841. TEPLUKHIN, A. Eased type hog houses. (In Russian.) Mfasnaf Indus. SSSR. 21(5):76. Sept./Oct. 1950. 50.8 M58
46842. WALTON, H. V., and SPRAGUE, D. C. Air flow through inlets used in animal shelter ventilation. Agr. Engin. 32:203-205. Apr. 1951. 58.8 Ag83
46843. WILSON, B. Build a Tribune-way range shelter. Poultry Tribune 57(4):6, 35. Apr. 1951. 47.8 P8642

#### Farmhouses and Farmsteads

46844. BARNES, J. W. House improvements in a rural area. J. Home Econ. 43:189-192. Mar. 1951. 321.8 J82
46845. BRISCOE, S. Toward better rural housing in Arkansas. Ala. Tuskegee Inst. Serv. 15(8):13-15. Mar. 1951. 280.8 Se62
46846. CARTER, D. G., and HINCHCLIFF, K. Flexible modern farmhouse. Capper's Farmer 62(5):22, 43. May 1951. 6 M693
46847. CURTIS, H. The Marlow's "old-school" ideas gave them new and better farm living. Successful Farming 49(4):48-49, 96, 98. Apr. 1951. 6 Su12
- A farmhouse from an old remodeled schoolhouse.
46848. FREEMAN, R. C. What farm families spend for housing. J. Home Econ. 43:259-262. Apr. 1951. 321.8 J82
46849. GORRINGE, I. A farmhouse in Surrey. Farmers Wk. [London] 34(15):75. Apr. 13, 1951. 10 F2226
46850. HOBGOOD, P. Low in cost, high in comfort. Farm & Ranch-South. Agr. Upper So. Ed. 81(4):42. Apr. 1951. 6 T31
- House designed for a farm family.



- 46851 HÖPKEN, H. Nordwestdeutscher bauernhaustyp und seine abwandlung. Landwirtsbl. Weser-Ems 98:99. Feb.1.1951. 18 L2345
- 46852 HOWARD, A. E. The site and erection of a farm house on Kangaroo Island. So. Austral. Dept. Agr. J. 54:200-201. Nov.1950. 23 So84
- 46853 LACKMANN, H. Zur ländlichen heimgestaltung. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:404,409-410. Mar.15,1951. 18 L2346
- 46854 NOLAN, F. L., HONEY, R. R., and WASMUTH, G. Family housing on owner-operated farms in Pennsylvania. Pa. Agr. Expt. Sta. B. 534,39 p. Nov.1950. 100 P381
- 46855 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Expansive farmhouses. U. S. D. A. L. 301,4 p. Apr.1951. 1 Ag84L
- 46856 WASHINGTON. STATE COLLEGE. EXTENSION SERV. Homes for Washington farms. Wash. State Col. Ext. C. 171-181,183-184. various pagings. Mar.1951. 275.29 W27C
- No. 171,174-179 by H. E. Wichers.

### Greenhouses and Plant Service Buildings

- 46857 EDWARDS, A. J. Electricity in the greenhouse. Cactus & Succulent J. Gt. Brit. 13:18-19. Jan.1951. 450 C113
- Heating.
- 46858 FAIRHURST, R. A. F. Careful clinkering saves fuel. Grower [London] 35:503,505. Mar.10,1951. 286.83 M34
- In greenhouse heating.
- 46859 GARDNER, J. S. Hotbeds and cold frames. Ky. Agr. Col. Ext. C. 276,rev.,12 p. Dec.1950. 275.29 K415
- 46860 ROTHERMEL. Der wanderkasten im gemüsebau. Bauern Ztg. 4(6):4. Feb.9,1951. 18 B324
- 46861 STEWART, G. H. Sweet potato plant propagation with electric heat. Elect. Farm 24(3):16-18. Mar. 1951. 335.8 EL27
- Hot beds.

### Storage Structures

- 46862 BAUR, M. Grundsätzliches zum bau von grünfütterungsanlagen. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:278-279. Feb.22,1951. 18 L2346
- 46863 BRENDSTRUP, S., and JENSEN, B. B. Silos and silo construction. I-II. (In Danish.) Dansk Landbr. 70:57-59. Feb.1,1951. 280.28 V91
- I, by S. Brendstrup; II, by B. B. Jensen.
- 46864 CORBAT, A. F. Ensilaje o conservación de forrajes bajo tierra. Rev. Sancer 9(98/99):27. Dec.1950/Jan.1951. 280.28 R322
- 46865 CUSHING, G. Pressurized heating of bulb storage rooms. Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:33-34. 1950. 81 N817
- 46866 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Construction of farm grain silos. Gt. Brit. Min. Agr. & Fisheries. Fixed Equip. Farm. L. 9,14 p. Jan.1951. 10 G7944
- 46867 HANSEN, H. Beet storage in the barn loft. (In Danish.) Dansk Landbr. 70:98. Feb.22,1951. 280.28 V91
- 46868 JENSEN, J. Silos and ensilage. (In Danish.) Dansk Landbr. 70:44. Jan.25,1951. 280.28 V91
- 46869 MADSEN, M. Silos and silage. (In Danish.) Dansk Landbr. 70:99-100. Feb.22,1951. 280.28 V91
- 46870 ROBERSON, L. N. Constructing bulb storage rooms. Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course 3:31-32. 1950. 81 N817
- 46871 SCHEELHASE. Der einfluss des häckselbetriebs auf die hof- und gebäudegestaltung. Tech. f. Bauern u. Gärt. Ausg. A 3:14-17. Jan.10,1951. 58.8 T223
- 46872 SPARKS, W. T. Silos for dairy farmers on the Lower Hunter. Milk Bd. J. 1:654-655. Dec.15,1950. 44.8 M5934
- Australia.
- 46873 SPOELSTRA, P. A. Heating and ventilation of bulb sheds. (In Dutch.) Weekbl. v. Bloembollencult. 61: 291-295. Mar.9,1951. 80 W412
- Includes discussion.
- 46874 VICKERY, L. S., and MAGEE, A. I. Flue-cured tobacco packbarns. Canada. Dept. Agr. P. 850,14 p. Nov.1950. 7 C16Pu
- 46875 WACHTER, H. VON. Stand des gärfutterbetriebs in Westdeutschland. Neue Mitt. f. die Landwirt. 6:138. Mar.3,1951. 18 N39

### Walls and Fences

- 46876 BUSH, R. Rabbits know a good eating apple. Grower [London] 35:497. Mar.10,1951. 286.83 M34
- Fences to keep out rabbits.
- 46877 HOLT, R. Net-wire fences changed sheep raising. Sheep & Goat Raiser 31(6):22-26,46. Mar.1951. 45.8 Sh3

### FARM UTILITIES

#### Electricity and Electrification

- 46878 FARMERS' UNION OF ALBERTA. COMMITTEE ON RURAL ELECTRIFICATION. Report December 5th, 1950, and adopted. Organized Farmer 10(2):15-16. Feb. 1951. 281.8 Or32
- 46879 HUTCHINSON, K. T. REA cooperative achievement—today and tomorrow. Washington, U. S. D. A., Off. Sec., 1951. 9 p. 1.91 A2H97
- Talk before Wisconsin Rural Electric Cooperative Association. Madison. Mar. 28. 1951.
- 46880 MACPHERSON, N. E. Grounding of electrical farm equipment. Agr. Engin. 32:221-223. Apr.1951. 58.8 Ag83
- 46881 MAREC, E. L'électricité et l'incendie. Génie Rur. 44:94-97. Mar.1951. 58.8 Au8
- 46882 O'BRIEN, H. R. If your power goes off; stand-by units are the farmer's answer to storms and disasters the electric companies can't prevent. Country Gent. 121 (4):28,117-119. Apr.1951. 6 C833
- 46883 RICHMOND, R. The case for electric co-ops. Amer. Coop. 22:672-673. 1950. 280.29 Am3A
- 46884 U. S. RURAL ELECTRIFICATION ADMIN. Charts & posters for REA co-ops. Rev. U. S. D. A. PA-155,7 p. Mar.1951. 1 Ag84Pro
- 46885 U. S. RURAL ELECTRIFICATION ADMIN. Number of consumers, total and farm, served by REA borrowers, by States, 1946-1950. Washington, 1951. 1 p. 1.933 T64
- 46886 U. S. RURAL ELECTRIFICATION ADMIN. Power plus; Georgia co-op gets results with power use and member education. Washington, 1951. 7 p. 1 R88Po
- Program of the Central Georgia Electric Membership Corporation, Jackson, Ga.
- 46887 U. S. RURAL ELECTRIFICATION ADMIN. Slides and slidefilms for REA co-ops. U. S. D. A. PA-154,8 p. Mar.1951. 1 Ag84Pro
- 46888 WICKARD, C. R. Let power help you boost production; learn to use electricity wisely for peak efficiency in every farm operation. Carolina Farmer 6(3):10. Mar.1951. 6 C223
- 46889 WISDOM, E. F. The law on rural electrification cooperatives. Amer. Coop. 22:413-421. 1950. 280.29 Am3A

#### Heating, Lighting, and Radiation

- 46890 HOCKER, A. J. Orchard heater smoke control in Los Angeles County. Calif. Citrog. 36:244-245. Apr. 1951. 80 C125
- 46891 JØRGENSEN, O. J. Heating with chaff. (In Danish.) Tidsskr. f. Landøkon. 1951:129-141. Mar.1951. 11 T43
- 46892 MAHL, W. Neuartige stallbeleuchtungen mit verdunkelbaren leuchtröhren. Deut. Wirtgeflügelzucht. 3: 196. Jan.27,1951. 47.8 D483
- 46893 SIMONS, J. W., and LANHAM, F. B. Factors affecting temperatures in southern farmhouses. U. S. D. A. Tech. B. 822,rev.,91 p. Ref. Feb.1951. 1 Ag84Te

#### Power Plants, Motors and Engines on the Farm

- 46894 HESNARD, J. Considérations générales sur les moteurs à combustion. Culture 25:11-15. Jan.1951. 14 C894
- Comparison of gasoline and Diesel engines.
- 46895 KLOSSE, E. Arbeit und leistung von kraftmaschinen. Tech. f. Bauern u. Gärt. Ausg. A 2:651-653. Nov.25,1950. 58.8 T223
- 46896 THEBIS, R. Arbeiten an benzin-kleinmotoren. Tech. f. Bauern u. Gärt. Ausg. A 2:503-504. Sept.10, 1950. 58.8 T223



Sewage and Waste Disposal

- 46897 INDIANA. BOARD OF HEALTH. The sanitary privy. Purdue U. Engin. Ext. Div. Ext. Ser. 73,15 p. 1950. 290.9 P972  
Purdue University Agricultural Extension Service and Engineering Extension Division cooperating.

Telephones

- 46898 SCHMITT, R. G., JR. Farmers' mutual telephone companies. J. Farm Econ. 33:134-139. Feb.1951. 280.8 J822

Water Supply

- 46899 GRASSI, C. J. Agua potable mediante represas en tierra. Agrotecnia 5:55-58. Jan./Feb.1951. 8 Ag825  
46900 KITOV, V. Speedy construction of wells. (In Russian.) Mashinno-Traktornaya Sta. 10(10):19-20. Oct. 1950. 58.8 M11  
46901 MARTIN, W. W. Pure water. West. Farm Life 53(7):7,28. Apr.1,1951. 6 R153  
Wells and their location.  
46902 VIVOT, R. Modernisation d'une station de pompage rurale; étude du problème - choix des pompes - matériel électro-mécanique. Génie Rur. 44:100-103. Mar.1951. 58.8 Au8

AGRICULTURAL PRODUCTS: PROCESSING, DISTRIBUTION, AND STATISTICSGENERAL

- 46903 AVANZI, E. Trentino, center of valuable agricultural products. (In Italian.) Almanacco Agr. (1951)62: 51-54. 1950. 16 AL6  
46904 EVANS, A. W. Haiti enjoyed prosperous year owing to high coffee prices. Foreign Trade 9:481-483. Mar.24,1951. 286.8 C162  
Situation for agricultural products.  
46905 JUSSIAUX, P. Note sur la production végétale aux Etats-Unis. France. Min. de l'Agr. B. Tech. d'Inform. 55:735-739. Dec.1950. 14 F844B  
46906 KELLOGG, C. E. Food, soil and people. United Nations Educ. Sci. & Cult. Organ. Food & People Ser. 6,64 p. 1950. 173 N215F  
Also classified separately with call number 389 K293  
46907 KIHSS, P. U. N. sets the table. United Nations Educ. Sci. & Cult. Organ. Food & People Ser. 2,24 p. 1950. 173 N215F  
Also classified separately with call number 389 K55U  
46908 KRÓLIKOWSKI, S. Distribution of the world's food. United Nations Educ. Sci. & Cult. Organ. Food & People Ser. 4,24 p. 1950. 173 N215F  
Also classified separately with call number 389 K91D  
46909 MAYER, A. Food and social progress. United Nations Educ. Sci. & Cult. Organ. Food & People Ser. 3, 23 p. 1950. 173 N215F  
Also classified separately with call number 389 M453  
46910 MOROCCO. DIRECTION DE L'AGRICULTURE, DU COMMERCE ET DES FORÊTS. DIV. DU COMMERCE ET DE LA MARINE MARCHANDE. Lexique de l'économie marocaine, édition 1950, chiffres de 1949. Ed. 5. n.p.,1950. 252 p. 286.9 M82  
Includes agricultural products.  
46911 MYRDAL, A., and VINCENT, P. Are there too many people? United Nations Educ. Sci. & Cult. Organ. Food & People Ser. 5,48 p. 1950. 173 N215F  
Also classified separately with call number 280 M994A  
46912 SAYRES, P. The world's biggest business. In Sayres, P., ed. Food marketing, p.3-10. New York, McGraw-Hill,1950. 286.2 Sa9  
The food industry.  
46913 THOMSON, R. K. Indonesian output of food-stuffs not sufficient to meet needs. Foreign Trade 9:428-430. Mar.17,1951. 286.8 C162  
46914 TOLLEY, H. R. Farmers in a hungry world. Amer. Philos. Soc. Proc. 95:54-61. Feb.13,1951. 500 P533  
46915 UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION. Food and people, discussion guide, by D. McConkey, comp. New York? 1950. 23 p. 173 N215F  
Also classified separately with call number 389 Un396

- 46916 U. S. CONGRESS. HOUSE. COMMITTEE ON FOREIGN AFFAIRS. India Emergency Assistance Act of 1951. Hearings, 82d Cong., 1st sess. on H. R. 2692, H. R. 2693, H. R. 2694, H. R. 2695, H. R. 2696, H. R. 2698, H. R. 2699, H. R. 2700, H. R. 2702, H. R. 2705, H. R. 2706, and H. R. 3017, bills to furnish emergency food relief assistance to India, Feb. 20-23, 1951. Washington, 1951. 233 p.

- 46917 U. S. DEPT. OF STATE. Emergency food assistance; publicity for distribution program; agreement between the United States of America and Yugoslavia. U. S. Dept. State. Treaties & other Internatl. Acts Ser. 2146,3 p. 1951. 150 T71T  
46918 U. S. NORTHERN REGIONAL RESEARCH LABORATORY. List of publications, proteins and related subjects. U. S. Bur. Agr. & Indus. Chem. AIC-228(sup. 3), 2 p. 1950. 1.932 A2Ag82

ANALYSIS AND COMPOSITION

- 46919 BLANCK, F. C. Agriculture and food. Indus. & Engin. Chem. 43:564-567. Mar.1951. 381 J825  
Chemistry.  
46920 COATES, M. E., HARRISON, G. F., and KON, S. K. The chick assay of vitamin B12 and the animal protein factor. Analyst 76:146-150. Mar.1951. 382 An1  
46921 DECKENBROCK. Kritisches zur malz- und stärkewertbestimmung. (Sum.) Angew. Chem. 63:99. Feb.21,1951. 384 Z33  
46922 EDE, A. J., and HADDOW, R. R. The electrical properties of food at high frequencies. Food Mfr. 26:156-160. Ref. Apr.1,1951. 389.8 F736  
46923 HEWSTON, E. M., FISHER, M., and KEILES, E. O. Comparison of the 2,6-dichlorophenolindophenol and 2,4-dinitrophenylhydrazine methods with the Cramp-ton bioassay for determining vitamin C values in foods. U. S. D. A. Tech. B. 1023,30 p. Ref. Jan.1951. 1 Ag84Te  
46924 HOBSON, P. N., and others. The enzymic synthesis and degradation of starch. XII-XIII. Chem. Soc. J. 1951:596-598,801-803. Feb.-Mar.1951. 382 L84J  
XII, The mechanism of synthesis of amylopectin, by P. N. Hobson, W. J. Whelan, and S. Peat; XIII, Improved methods for the fractionation of potato starch, by P. N. Hobson, S. J. Pirt, W. J. Whelan, and S. Peat.  
46925 HUMPHREY, H. J. Bacteriology of frozen foods. West. Canner & Packer 43(3):45-46. Mar.1951. 286.83 W522  
46926 JONES, A. H., and FERGUSON, W. E. A study of methods of preparing food products for microbiological analyses. Food Res. 16:126-132. Mar./Apr.1951. 389.8 F7322  
46927 LACOSTE, R. U. S. Army inspects canned foods with X-ray equipment. West. Canner & Packer 43(3):33-34. Mar.1951. 286.83 W522  
46928 LANG, W. Ueber die untersuchung von pflanzlichen zubereitungen mit hilfe papierchromatographischer methoden. Deut. Apoth.-Ztg. 91:125-129. Ref. Feb.23, 1951. 396.8 Su2  
46929 LOWEN, W. H. Determination of dithiocarbamate residues on food crops. (Sum.) Canner 112(15):18. Apr.14,1951. 286.83 C16  
46930 MARKOVIĆ, D. Zur anwendung der Kofler-schen mikromethoden in der pflanzenmikrochemie. Mikrokem. Ver. mit Mikrokem. Acta 36/37:1158-1162. Ref. 1951. 384 M58  
English summary.  
46931 MORGAN, R. H., and RAWLINGS, H. W. The determination of fat in sweetened foods. Analyst 76:161-166. Ref. Mar.1951. 382 An1  
46932 NICKERSON, J. T. R. Bacteriology of frozen foods. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3,p.89-98. Ref. New York, 1951. 295.9 Am32Ref  
46933 RADLEY, J. A. Ultra-violet radiation in the food industry. 3. Food [London] 20(234):84-86. Mar.1951. 389.8 F738  
Fluorescence analysis.  
46934 ROSENTHALER, L., and CAPUANO, L. Über die mohlere reaktion. II. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 92:94-96. Feb.1951. 384 Z39  
46935 SOCIETY OF PUBLIC ANALYSTS AND OTHER ANALYTICAL CHEMISTS. ANALYTICAL METHODS COMMITTEE. The chemical assay of aneurine in food-stuffs. Analyst 76:127-133. Mar.1951. 382 An1  
46936 TAKATA, R. Shokuryo Kagaku [Chemistry of food]. Tokyo, Maruzen,1950. 257 p. 389 T132



46937 TAYLOR, M. C. Colour measurements in the food industries. *Food Preserv. Q.* 10:39-43. Ref. Sept. 1950. 389.9 Au7F

46938 TRUSOV, V. I. Method of choline determination in biological material. (In Russian.) *Biokhimika* 15: 495-498. Ref. Nov./Dec. 1950. 385 B523

Includes agricultural products.

46939 WHITE, L. S. Micro-organisms and frosted foods. *Locker Plants & Frosted Foods* 6(1):17, 19. Feb. 1951. 389.8 L792

Bacteria and molds.

#### CONSUMPTION AND UTILIZATION

46940 ATLAS POWDER CO. INDUSTRIAL CHEMICALS DEPT. Chemicals from farm products. *Wilmington*, 1950. 12 p. 388 At62C

46941 DICKINS, D., and others. Family food consumption in three types of farming areas of the South. I. An analysis of 1947 food data. *South Coop. Ser. B.* 7, 142 p. June 1950. 100 G29S0

B. Gillaspie, A. M. Moser, J. Staab, W. Dean, E. Philp and R. L. Anderson, joint authors.

The Agricultural Experiment Stations of Mississippi, Arkansas, South Carolina, Tennessee, and Virginia, the U. S. Bureau of Human Nutrition and Home Economics, and the Institute of Statistics, North Carolina State College cooperating.

46942 INDUSTRIAL WASTE CONFERENCE, 5, LAFAYETTE, 1949. Proceedings, held at Purdue University, November 29-30, 1949. Lafayette, 1950. 431 p. 381 In2

46943 LIVINGSTON, L. F. Farmers and industry—partners in plastics. *Chemurg. Digest* 10(4):4-6. Apr. 1951. 381 N213Na

46944 SHAW, B. T. Defense needs in the chemurgic field. Washington, U. S. Agr. Res. Admin., 1951. 13 p. 1.98 Sh2

Talk at meeting of National Farm Chemurgic Council, Apr. 19, at Cincinnati.

46945 SINGRUEN, E. Uses for yeasts. *Indus. Waste Conf. Proc.* (1949)5:68-78. 1950. 381 In2

46946 TEUTON, F. L. Chemurgic research by the United States Department of Agriculture. Washington, U. S. Bur. Agr. & Indus. Chem., 1951. 14 p. 1.98 T29

Talk before meeting of the National Farm Chemurgic Council, Cincinnati, Apr. 17, 1951.

46947 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Better products from southern crops (Lab. Tour No. 4, 1951 series), by C. H. Fisher, A. F. Freeman, J. D. Reid, and G. Loudon. Washington, 1951. 4 p. 1.914 R2R11

Developments at the U. S. Southern Regional Research Laboratory.

46948 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Industrial uses for farm products, by R. T. Milner, R. W. Jackson, J. C. Cowan, and B. Burton. Washington, 1951. 4 p. 1.914 R2R11

46949 WOODWARD, F. N. American chemurgy and its impact on colonial development. *Indus. Chem.* 27(314): 99-106. Ref. Mar. 1951. 382 In22

#### DISTRIBUTION, MARKETING, AND TRANSPORTATION

46950 ANDRADE, J. L. DE. De rebus pluribus. (In Portuguese.) *Granja [Lisboa]* 9:169-176. July/Sept. 1950. 15.5 G76

Prices and markets.

46951 BAKER, C. K. Auction branches out in Garden State. *News Farmer Coop.* 18:11, 22. Apr. 1951. 166.2 N47

The Gloucester County Agricultural Cooperative, Glassboro, N. J.

46952 BRISEBOIS, D., and DARPOUX, R. Production and Marketing Administration, P.M.A. (In French.) *France. Min. de l'Agr. B. Tech. d'Inform.* 55:895-906. Dec. 1950. 14 F844B

46953 CANADA. MARKETING SERV. ECONOMICS DIV. Federal agricultural marketing and price legislation, Canada 1930 to 1950, by F. Shefrin. Ottawa, 1950. 87 p. 280.3 C166F

46954 CANADA. MARKETING SERV. ECONOMICS DIV. Marketing margins for selected Canadian agricultural products, 1935-1949, by F. W. Hillhouse and F. M. Schrader. Ottawa, 1950. 34 p. 284.3 C1622M

46955 CHEEK, A. Significant phases of Oklahoma cooperative marketing law. *Amer. Coop.* 22:351-354. 1950. 280.29 Am3A

46956 CUMMINGS, N. Wholesalers modernize and merchandise. In Sayres, P., ed. *Food marketing*, p.113-130. New York, McGraw-Hill, 1950. 286.2 Sa9

46957 DODGE, P. Co-ops best market? *News Farmer Coop.* 18:16. Apr. 1951. 166.2 N47

46958 FABRIZI, C. Measurement of distribution costs. (In Italian.) *Riv. di Polit. Econ.* (ser.3)41:96-101. Jan. 1951. 280.8 R52

46959 FISHER, D. F. Refrigerator cars. In *American Society of Refrigerating Engineers. Refrigerating data book*, ed.3, p.251-265. Ref. New York, 1951. 295.9 Am32Ref

46960 FRANCE. INSTITUT NATIONAL DE LA STATISTIQUE ET DES ETUDES ECONOMIQUES. Commerce intérieur. France. Inst. Natl. de la Statis. et des Etudes Econ. Etudes et Conjoncture. *Econ. Franç.* 6:51-58. Jan./Feb. 1951. 280.8 F84

Includes food products.

46961 HAWAII. UNIVERSITY. AGRICULTURAL EXTENSION SERV. 1950 market statistics; territorial receipts, Honolulu unloads, prices, and shipments of specified agricultural commodities. Hawaii. U. Agr. Ext. C. 303,57 p. Mar. 1951. 275.29 H312Ac

46962 JOHNSON, J. S. How today's food manufacturer sells his goods. In Sayres, P., ed. *Food marketing*, p.169-185. New York, McGraw-Hill, 1950. 286.2 Sa9

46963 JOHNSTON, E. L. Is a roadside market the thing for you? *Farm & Ranch-South. Agr. Upper So. Ed.* 81(4):12. Apr. 1951. 6 T31

46964 KELLEY, J. N. Refrigerator cars—a progress report. *Ry. Age* 130(12):37-39. Mar. 26, 1951. 288.8 R136

46965 LIPPINCOTT, R. W. Trenton market—roadside stand deluxe! *N. J. Farm & Gard.* 22(4):18-19. Apr. 1951. 6 G162

Trenton Farmers' Market.

46966 MENTLEY, G. L. Frozen foods: a marketing case history. In Sayres, P., ed. *Food marketing*, p.285-298. New York, McGraw-Hill, 1950. 286.2 Sa9

46967 MONTGOMERY, G. Rapid changes made in marketing farm products. 23. *Kans. Farmer* 88(3):12, 45. Feb. 3, 1951. 6 K13

46968 NIKLAS. Nicht bei vollen scheunen hungern. *Neue Mitt. f. die Landwirt.* 6:83. Feb. 10, 1951. 18 N39

Market and price situation in Germany for agricultural products.

46969 PFRIEME, W. Entwicklung und aufgaben der Deutschen Handelszentrale Lebensmittel. *Versorgung* 5: 24-25. Feb. 1951. 280.8 V61

Russian Zone of Germany.

46970 PHILLIPS, F. R. A quarter century of cooperative teaching. *Grain Prod. News* 3(8):11-13. Mar. 1951. 286.81 G764

Marketing cooperatives.

46971 PLUMMER, K. V. Modern "reefers," a study in evolution. *West. Grower & Shipper* 22(5):19-20, 56-57. Apr. 1951. 280.38 W52

46972 SAWYER, A. F. Refrigerated trucks. In *American Society of Refrigerating Engineers. Refrigerating data book*, ed.3, p.383-389. New York, 1951. 295.9 Am32Ref

46973 SAYRES, P. Food marketing; twenty-two leaders of the food industry tell how the Nation's biggest and most complex business works, and why. New York, McGraw-Hill, 1950. 335 p. 286.2 Sa9

46974 SAYRES, P. Marketing today—and tomorrow. In Sayres, P., ed. *Food marketing*, p.301-309. New York, McGraw-Hill, 1950. 286.2 Sa9

46975 SEEFELDT, F. C. Dry ice in food distribution. In *American Society of Refrigerating Engineers. Refrigerating data book*, ed.3, p.495-498. New York, 1951. 295.9 Am32Ref

46976 SHIRK, A. U. Evolution of the food broker. In Sayres, P., ed. *Food marketing*, p.131-139. New York, McGraw-Hill, 1950. 286.2 Sa9

46977 SWIGART, B. What has been done by farmers' marketing and purchasing cooperatives in specific communities. *Amer. Coop.* 22:303-306. 1950. 280.29 Am3A

46978 TINDALL, C. Here's how big stores sell farm products; quite a change from the old days; most important point now is quality. *Mo. Rur.* 92(6):6-7. Mar. 24, 1951. 6 R8891

46979 TOUTANT, J. Pour assurer notre progrès agricole, l'équilibre des marchés s'impose. (Extr.) *Rev. d'Oka* 25:16-20. Jan./Feb. 1951. 7 Ok1

46980 U. S. AGRICULTURAL RESEARCH ADMIN. Report of activities under the Research and Marketing Act, 1949/50. Washington, 1950. 36 p. 1 Ag84



- 46981 U. S. EXTENSION SERV. A catalog of educational materials for use with food retailers. Rev. Washington. 1951. 42 p. 1.913 A2C28
- 46982 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. List of Foreign Agriculture reports and Foreign Agriculture circulars relating to studies conducted under the provisions of the Research and Marketing Act, from October 27, 1947 (the beginning) to January 1, 1951. Rev. Washington, 1951. 16 p. 1.943 L69
- 46983 VILLAUDY, A. Evolution des marchés des principaux produits agricoles. Almanach Agr. Tunisie 1951:135-145. 24 AL6
- 46984 WARREN, L. A. Mass marketing arrives. In Sayres, P., ed. Food marketing, p.13-28. New York, McGraw-Hill, 1950. 286.2 Sa9
- 46985 WATSON, E. J. Frozen foods: what's in it for you? Frosted Food Field 12(2):39. Feb./Mar. 1951. 389.8 F922
- 46986 WEIR, W. Advertising tells the story. In Sayres, P., ed. Food marketing, p.210-222. New York, McGraw-Hill, 1950. 286.2 Sa9
- 46987 WESTLING, L. L. Cargo refrigeration on ship-board. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.287-290. New York, 1951. 295.9 Am32Ref
- 46988 WILLIS, P. S. Public relations: new marketing tool. In Sayres, P., ed. Food marketing, p.198-209. New York, McGraw-Hill, 1950. 286.2 Sa9
- 46989 ZIMMERMAN, C. Selling good will; food producers and consumers both gain when they try to learn more about each other's problems. Capper's Farmer 62(5):18,39. May 1951. 6 M693

#### GRADING, INSPECTION, STANDARDIZATION, AND QUALITY

- 46990 APPELEYARD, P. Flavor is more than taste. Pract. Home Econ. 29:189-190. Apr. 1951. 321.8 H752
- 46991 ATTACK, F. W. Canadian food colour regulations. Canad. Chem. & Process Indus. 35:210-213, 226. Mar. 1951. 381 C16
- 46992 AUSTERN, H. T. Foods and the protection of the public health. 2. Canner 112(13):18,20,24. Mar. 31, 1951. 286.83 C16
- 46993 BRADLEY, W. B. Baking industry's view of proposed standards. J. Home Econ. 43:182. Mar. 1951. 321.8 J82
- 46994 CAMERON, E. J. "Chemicals" in canned foods. Nutr. Observ. 12:14-19. Jan. 1951. 389.8 N955
- 46995 CHEFTEL, H. L'arsenic dans les aliments. Ann. des Falsif. et des Fraudes 43:218-219. July/Sept. 1950. 389.8 An72
- 46996 CHEFTEL, H. Le plomb dans les aliments. Ann. des Falsif. et des Fraudes 43:230-238. July/Sept. 1950. 389.8 An72
- 46997 CHRISTIANSEN, O., KOCH, S. O., and MADE-LUNG, P. Outbreak of food poisoning due to *Bac. cereus*. (In Danish.) Nord. Vetmed. 3:194-202. Mar. 1951. 41.8 N813
- 46998 DUNBAR, P. B. A summary of the proposed bread standards. J. Home Econ. 43:179-180. Mar. 1951. 321.8 J82
- 46999 HORWOOD, M. P., and MINCH, V. A. The numbers and types of bacteria found on the hands of food handlers. Food Res. 16:133-136. Mar./Apr. 1951. 389.8 F7322
- 47000 KATAE, M. Shokuhin kensa ho [Examination of food]. Tokyo, Asakura-Shoten, 1950. 216 p. 389.4 K15
- 47001 KENNEY, C. H. Rancidity is like rust. Locker Plants & Frosted Foods 6(1):21,24. Feb. 1951. 389.8 L792
- 47002 KIRK, J. B. Food-borne infections. Pharm. J. 165:217-219. Sept. 30, 1950. 396.8 P49
- 47003 KOHN-ABREST, E. Le cuivre dans les aliments. Ann. des Falsif. et des Fraudes 43:226-227. July/Sept. 1950. 389.8 An72
- 47004 KOHN-ABREST, E. Le zinc dans les aliments. Ann. des Falsif. et des Fraudes 43:228-230. July/Sept. 1950. 389.8 An72
- 47005 LONGENECKER, H. E. Chemical additives in foods. Amer. Dietet. Assoc. J. 27:185-189. Mar. 1951. 389.8 Am34
- 47006 MCCAY, C. M. The quest for better bread. J. Home Econ. 43:180-181. Mar. 1951. 321.8 J82
- Bread standards.

- 47007 O'DWYER, J. J. Food poisoning is avoidable. Progress [London] 41(229):39-43. Winter 1950/51. 280.8 P949
- 47008 PERPEROT, H., and LEFAUX, R. L'anti-moine dans les aliments. Ann. des Falsif. et des Fraudes 43:213-217. July/Sept. 1950. 389.8 An72
- 47009 SLADDEN, G. E. Le conditionnement et la standardisation des produits agricoles du Congo Belge et du Ruanda-Urundi. Soc. Belge d'Études et d'Expansion. B. Bimes. 50(144):50-53. Jan./Feb. 1951. 280.8 So17
- 47010 SOCIÉTÉ DES EXPERTS-CHIMISTES DE FRANCE. COMMISSION D'ÉTUDE DES SUBSTANCES ÉTRANGÈRES DANS LES ALIMENTS. Extraits des travaux. Ann. des Falsif. et des Fraudes 43:210-213. July/Sept. 1950. 389.8 An72
- 47011 TRUFFERT, L. Le cadmium dans les aliments. Ann. des Falsif. et des Fraudes 43:219-226. Ref. July/Sept. 1950. 389.8 An72
- 47012 WALDOR, W. O. Food poisoning by metallic salts. Food [London] 20(234):96-98. Mar. 1951. 389.8 F738

#### PACKING AND PACKAGING

- 47013 ARENS, E. Packaging for the mass market. In Sayres, P., ed. Food marketing, p.223-236. New York, McGraw-Hill, 1950. 286.2 Sa9
- 47014 C-7 COMBAT ration packaging. Good Packaging 12(3):23-25. Mar. 1951. 280.38 G59
- 47015 DIEHL, H. C. NPA needs facts; Refrigeration Foundation states packaging data vital to nation. Good Packaging 12(4):27. Apr. 1951. 280.38 G59
- 47016 HAMMOND, A. E. Food-packaging technique. Food [London] 20(234):89-95. Mar. 1951. 389.8 F738
- 47017 KRASKA, E. J. Proper packaging and loading of subsistence items for the Armed Forces. Canner 112(14):13-14,16. Apr. 7, 1951. 286.83 C16
- 47018 NASH, J. Evaluate your package. Coffee & Tea Indus. 74(4):59,71-72. Apr. 1951. 389.8 Sp4
- 47019 WINTER, J. D. Packaging of frozen foods. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.125-136. Ref. New York, 1951. 295.9 Am32Ref

#### PRICES, PRICE CONTROL, AND RATIONING

- 47020 BAENDER, P. Zusammenwirken von Verwaltung und Bevölkerung sicherte den Erfolg. Versorgung 5:18-19. Feb. 1951. 280.8 V61
- 47021 BETHGE, S. Angriff auf die handelsspanne! Deut. Landwirt. Presse 74:57-58. (To be cont.) Mar. 3, 1951. 18 D482
- 47022 BRANNAN, C. F. Taking the American farmer for a rough ride. Co-op Grain Q. 9:27-32. Spring 1951. 280.28 C7898
- Prices and income.
- 47023 BROWNLEE, O. H., and JOHNSON, D. G. Reducing price variability confronting primary producers. Chicago? 1950? 23 p. 284.3 B82
- 47024 CANADA. AGRICULTURAL PRICES SUPPORT BOARD. Annual report, 1948-49. Ottawa? 1950. 7 p. 284.39 C169
- 47025 DENEFF, P. Zur preisindexziffer für die lebenshaltung. Wirt. u. Statis. 2:207-211. Sept. 1950. 265 St22
- Germany.
- 47026 FRANCE. INSTITUT NATIONAL DE LA STATISTIQUE ET DES ÉTUDES ÉCONOMIQUES. Prix. France. Inst. Natl. de la Statis. et des Études Écon. Études et Conjoncture. Écon. Franç. 6:59-79. Jan./Feb. 1951. 280.8 F84
- Includes agricultural prices.
- 47027 HILLSON, A. What do you think about prices? Organized Farmer 10(2):16-17. Feb. 1951. 281.8 Or32
- Canada.
- 47028 HOLMSTRÖM, S. Price and income developments for agricultural products in Norrland in comparison with the rest of the country. (In Swedish.) Lantman- 35:172-175. Mar. 3, 1951. 11 L234
- 47029 HUNT, G. E. A comparison of marketing margins in the United States and Canada for selected agricultural products. N. Y. Agr. Col. Farm Econ. 178:4620-4622. Feb. 1951. 280.8 C812



47030 JUREEN, L. Agreement on prices of agricultural products January-August 1951. (In Swedish.) Sweden. Stat. Jordbrämnad. Jordbrekon. Meddel. 13:3-9. Jan.1951. 257.3 J76

English summary, p. 2.

47031 KRAUT, and GRALLERT. Die nahrungsmittelpreise nach den wirtschaftsrechnungen und nach der einzelhandelspreisstatistik. Wirt. u. Statis. 2:327-331. Dec.1950. 265 St22

Germany.

47032 MEZERIK, A. G. Are farmers getting the gravy? New Repub. 124(17):15-16. Apr.23,1951. 280.8 N42

Food prices.

47033 REIDPATH, A. C. Why farm prices seem high. Farmer's Advocate & Home Mag. 86(3396):6,43. Apr.12, 1951. 7 F22

47034 ROSENBERGER, H. T. Commodity price fixing in Pennsylvania, 1676-1800. Pa. Dept. Int. Aff. Mon. B. 19(4):3-12. Mar.1951. 280.9 P383

47035 SHEPHERD, G. Parity loops again. Co-op Grain Q. 9:25-26. Spring 1951. 280.28 C7898

47036 STEDMAN, A. D. Hubbub over rising food prices. Co-op Grain Q. 9:33-34. Spring 1951. 280.28 C7898

47037 U. S. CONGRESS. JOINT COMMITTEE ON DEFENSE PRODUCTION. Defense Production Act; progress report—No. 4; hearing to hear Michael V. DiSalle, Director, Office of Price Stabilization, March 2, 1951. Washington, 1951. p. 95-128.

47038 WALLACE, D. H. Price control and rationing. Amer. Econ. Rev. 41:60-62. Mar.1951. 280.8 Am32

47039 WILCOX, W. W. Effects of farm price changes on efficiency in farming. J. Farm Econ. 33:55-65. Feb. 1951. 280.8 J822

47040 WILLIAMS, D. B. Price expectations and reactions to uncertainty by farmers in Illinois. J. Farm Econ. 33:20-39. Feb.1951. 280.8 J822

47041 WOBBEROCK, G. Die preisentwicklung der roh- und grundstoffe seit ende juni 1950. Wirt. u. Statis. 2: 150-153. Aug.1950. 265 St22

Germany.

## PROCESSING AND STORAGE

47042 AMERICAN SOCIETY OF REFRIGERATING ENGINEERS. The refrigerating data book; refrigeration applications volume. Ed. 3. New York, 1951. 894 p. 295.9 Am32Ref

47043 ATKINSON, F. E. Aseptic canning and high temperature sterilization. Canad. Food Indus. 22(4):26-28. Apr.1951. 286.83 C166

47044 BIRDSEYE, C. Theories and methods of quick freezing. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.5-10. New York, 1951. 295.9 Am32Ref

47045 BRATLEY, C. O., and WIANT, J. S. Diseases and deterioration of stored products. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.217-238. Ref. New York, 1951. 295.9 Am32Ref

47046 BURGER, W. W. An economic study of locker plants. N. Y. Agr. Col. Farm Econ. 178:4623-4626. Feb. 1951. 280.8 C812

47047 CLARK, J. F. Preservation of food. (Sum.) Roy. Inst. Chem. J. 74:121-122. Apr.1950. 382 In7

47048 DUBOIS, C. W. Home and farm freezers. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.429-440. Ref. New York, 1951. 295.9 Am32Ref

47049 DUBOIS, C. W. Preparation of food products for home freezing. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.75-87. Ref. New York, 1951. 295.9 Am32Ref

47050 ECKBLAD, I. From farm to freezer. Wash. State Col. Ext. B. 375, rev. 19 n. Feb.1951. 275.29 W27D

47051 EWELL, A. W. Ozone and light. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.239-245. Ref. New York, 1951. 295.9 Am32Ref

In cold storage.

47052 FILACHIONE, E. M., and others. Lactic acid derivatives as plasticizers; esters of polymeric lactic acid. U. S. Bur. Agr. & Indus. Chem. AIC-295, 11 p. Ref. Feb.1951. 1.932 A2Ag82

E. J. Costello, T. J. Dietz, and C. H. Fisher, joint authors.

47053 FRANCIS, C. Research and development in the food processing industry. Nutr. Rev. 9:65-67. Mar.1951. 389.8 N953

47054 GEBHARD, M. Deep-freezing in Denmark. (In Finnish.) Teho 1951(1):7-11. 20 T98

English summary, p. 50.

47055 GIBBAS, L. J., and MERMAN, J. E. Display of fresh foods. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.441-446. New York, 1951. 295.9 Am32Ref

Refrigeration.

47056 HANSEN, O. Whole automatic cooling in Norway. (In Norwegian.) Meieriposten 40:65-67. Jan.27, 1951. 44.8 M47

47057 HASKELL, W. H. Food handler training problems. J. Milk & Food Technol. 14:37-38, 41. Jan./Feb. 1951. 44.8 J824

47058 HICKS, E. W. On the evaluation of canning processes. Food Technol. 5:134-142. Ref. Apr.1951. 389.8 F7398

47059 HUDTLOFF, M. J. Warehouse industry and defense; the refrigerated warehousing industry is in a strategic position to provide service essential to the defense effort; the picture is presented vividly in this article. Ice & Refrig. 120(3):25-26. Mar.1951. 295.8 Ic2

47060 HÜTER, L. Moderne entwesungsmethoden und ihre bedeutung für die lebensmittelhygiene, unter besonderer berücksichtigung von methylbromid. II. Anz. f. Schädlingssk. 24:19-21. Feb.1951. 421 An9

47061 JOHNSON, O. W. What the city official desires of his sanitation department. J. Milk & Food Technol. 14: 39-41. Jan./Feb.1951. 44.8 J824

Includes food industry sanitation.

47062 KEARNEY, C. F. Cold storage requirements by military. Ice & Refrig. 120(3):20. Mar.1951. 295.8 Ic2

47063 KLOMP, G. The independent retailer views frozen foods. Calif. Grocers Advocate 56(11):10. Mar.16, 1951. 286.28 C12

47064 LIN, P. W. Yeast growing on brewery waste. Indus. Waste Conf. Proc. (1949)5:181-190. 1950. 381 In2

47065 MCCOY, D. C., and PENNINGTON, M. E. Care of perishables in ships' stores. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.483-494. New York, 1951. 295.9 Am32Ref

Refrigeration.

47066 OOTANI, Y. Saishin hakko kogyo [Newest fermentation industry]. Tokyo, Sangyo Tosho, 1950. 640 p. 390 Ool

47067 OPHULS, F. Cold storage plants. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.149-161. New York, 1951. 295.9 Am32Ref

47068 POWERS, J. P. Storage of frozen foods. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.117-124. New York, 1951. 295.9 Am32Ref

47069 REED, J. M., and BOHRER, C. W. Engineering considerations in relation to spoilage control in canning factories. Canning Trade 73(40):8-10, 19. Apr.23, 1951. 286.83 T67

47070 ROCASOLANO, C. Conservación de los productos agrícolas. Cult. Mod. 34:16. Jan.1951. 15 C89

Processing methods for food.

47071 ROSE, D. H., and WRIGHT, R. C. Food storage conditions. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.163-172. Ref. New York, 1951. 295.9 Am32Ref

47072 SMITH, C. E. P. Refrigeration of food on railroad dining cars. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.507-515. New York, 1951. 295.9 Am32Ref

47073 SMITH, H. R. Storage of canned foods. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.359-360. New York, 1951. 295.9 Am32Ref

47074 SMITH, J. A. Locker plants. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.391-409. New York, 1951. 295.9 Am32Ref

47075 SMOCK, R. M. Controlling the atmosphere in food storage rooms. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.499-506. Ref. New York, 1951. 295.9 Am32Ref

47076 U. S. PRODUCTION AND MARKETING ADMIN. Summary of State and regional cold storage holdings for 1950. Washington, 1951. 42 p. 1.956 M34Su62

47077 U. S. RURAL ELECTRIFICATION ADMIN.

Cold facts; how members of frozen food locker co-ops can eat better for less. U. S. D. A. PA-142, 12 p. 1951. 1 Ag84Pro

47078 WALL, M. E. Preparation of chlorophyll derivatives for industrial and pharmaceutical use. U. S. Bur. Agr. & Indus. Chem. AIC-299, 7 p. Ref. Mar.1951. 1.932 A2Ag82



47079 WOLFF, I. A., and others. Preparation of films from amylose. *Indus. & Engin. Chem.* 43:915-919. Ref. Apr.1951. 381 J825

H. A. Davis, J. E. Cluskey, L. J. Gundrum, and C. E. Rist, joint authors.

47080 WOOD, R. A., and FROST, R. The use of the centrifuge in food manufacture. *Food Indus.* 3(10):36-38. Feb.1951. 389.8 F7372

47081 WOODWARD, F. N. Industrial biosynthesis. *Times Rev. Indus.* (n.s.)5(51):20-22,25. Apr.1951. 286.8 T4822

Fermentation.

47082 ZAEHRINGER, M. V., and MAYFIELD, H. L. The effect of leavening and shortening combinations on the frozen storage of cakes and cake batters prepared at high altitude. *Food Technol.* 5:151-154. Ref. Apr.1951 389.8 F7398

## STATISTICS

47083 ÅKERMAN, A. Farm plant production. (In Swedish.) (Sum.) *Lantmannen* 35:240,248. Mar.24,1951. 11 L234

47084 BRAZIL'S agricultural production in the years 1948-49. (In Portuguese.) *Orientação Econ. e Financ.* 8(90):37-40. Dec.1950. 280.8 Or42

Statistics.

47085 FRANCE. INSTITUT NATIONAL DE LA STATISTIQUE ET DES ÉTUDES ÉCONOMIQUES. Agriculture et ravitaillement. *France. Inst. Natl. de la Statis. et des Études Econ. Études et Conjoncture. Econ. Franç.* 6:11-26. Jan./Feb.1951. 280.8 F84

47086 INDIAN COUNCIL OF AGRICULTURAL RESEARCH. Sample surveys for the estimation of yield of food crops. *Indian Council Agr. Res. B. Ser.* 1,58 p. May 1950. 22 In293B

47087 MAURITIUS. CENTRAL STATISTICAL OFF. Year book of statistics, No. 4, 1949. n.p.,1950. 163 p. 270 M445

Includes agriculture.

47088 U. S. DEPT. OF AGRICULTURE. Agricultural statistics, 1950. Washington,1951. 791 p. 1 Ag84Yas

47089 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. What farmers plan to plant, by C. E. Burkhead, R. Royston, and M. E. Bliss. Washington,1951. 4 p. 1.914 R2R11

47090 U. S. ECONOMIC COOPERATION ADMINISTRATION. DIV. OF STATISTICS AND REPORTS. Far East data book, No. 1. Washington,1951. 92 p. 173.2 Ec72Far

Contains agricultural statistics.

47091 WEST BENGAL. PROVINCIAL STATISTICAL BUR. Statistical abstract West Bengal 1948. Alipore, 1950. 401 p. 269.52 W52

Includes agriculture and forestry.

47092 WIRTH. Aus der landwirtschaft. Statist. Monatsh. Württemberg-Baden 5:21. Jan.1951. 265 St24

Statistics.

47093 ZETTERBERG, O. Acreage inventory in October 1950. (In Swedish.) Sweden. Stat. Jordbrnämnd. Jordbrekon. Meddel. 12:376-378. Dec.1950. 275.3 J76

## BEVERAGES AND CONDIMENTS

47094 ALIKONIS, J. J. Problems in chocolate liquor production. *Food Technol.* 5:142-145. Apr.1951. 389.8 F7398

47095 ALVAREZ ACEVEDO, J. M. Menos café y más micles finales. *Cuba Econ. y Financ.* 26(300):11. Mar. 1951. 286.8 C892

Policy.

47096 AMERICAN SOCIETY OF BREWING CHEMISTS. Proceedings annual meeting 1950. n.p.,1951. 205 p. 390.9 Am321

47097 BARCELO, J. L. La política del vino de Oporto. *Ceres [Valladolid]* 16(176):19-20. Feb.1,1951. 15 C33

47098 BECKWITH, A. R. Chemistry as an aid to wine-making. (Sum.) *Roy. Austral. Chem. Inst. J. & Proc.* 17:441-442. Dec.1950. 385 Au72

47099 BERTHAULT, P. Le vin dans l'économie algérienne. *Rev. Agr. de l'Afrique du Nord* 49:4-5. Jan.5,1951. 80 R326

47100 BISHOP, L. R. Methods of wort analysis. *Wallerstein Lab. Commun.* 14(44):7-29. Ref. Mar.1951. 390.9 W15

47101 BREWERS DIGEST. Buyers' guide and directory, 1951. Chicago,1951. 138 p. 225 B75

47102 CAVAZZA, L. Present data on the culture of mint. (In Italian.) *Colt. e Gior. Vinic. Ital.* 97:21. Jan.31, 1951. 16 C72

The industry.

47103 CERUTTI, G., and VEDANI, A. The determination of methanol in wines and other alcoholic fermented beverages. (In Italian.) *Ann. della Sper. Agr. (n.s.)*5:419-421. 1951. 16 An76

English summary.

47104 CERUTTI, G. On the origin and content in methyl alcohol of the Italian wines. (In Italian.) *Ann. della Sper. Agr. (n.s.)*5:331-335. 1951. 16 An76

English summary.

47105 CHELLI, N. The wines of Pratola Peligna. (In Italian.) *Colt. e Gior. Vinic. Ital.* 97:21-22. Jan.31,1951. 16 C72

47106 CLARKE, W. T. Uses and abuses of cacao products. (Excerpts.) *Confectionery-Ice Cream World* 15(13):11,18. Apr.2,1951. 389.8 C767

Chocolate handling.

47107 DALMASSO, G. Wine on the radio. (In Italian.) *Colt. e Gior. Vinic. Ital.* 97:17-19. Jan.31,1951. 16 C72

Public relations.

47108 DECOBERT, E. Le poivre; aperçu botanique; variétés; production; consommation; commercialisation; perspectives d'avenir. *Marchés Colon.* 7:655-656. Mar. 3,1951. 286.8 M33

47109 DEHMEL, A. Notwendigkeit der preiskorrekturen bei tafelschokoladen. *Zucker- u. Süßwaren-Wirt.* 3(18):8-9. Sept.20,1950. 286.86 Z3

Germany.

47110 DEIBNER, L. Sur un dispositif à écoulement réglable facilitant les mesures électrométriques du potentiel d'oxydo-réduction à l'abri de l'air; application aux vins. *Ann. des Falsif. et des Fraudes* 43:238-246. July/Sept.1950. 389.8 An72

47111 ENDERS, C., and RAIBLE, K. Ultraschall in der brauerel. *Brauwissenschaft* 1951:33-37. Mar.1951. 390.8 B733

47112 FEDDER, K. Die hopfen-trub-filtration in der praxis. *Brauwelt* 1951:89-90. Feb.8,1951. 390.8 B732

47113 FERRINI, U. R. Care and advice regarding the cellar and the first new wine, during and after the February-March decantation. (In Italian.) *Agr. Tosc.* 6:49-52. Feb.1951. 16 Ag827

47114 FINCKE, H. Der neue begriff "leckermittel" als ersatz des genussmittelbegriffes im sinne von nahrungsmitteln mit besonderem geschmackwert. *Zucker- u. Süßwaren-Wirt.* 3(18):28-29;(19):40-42. Sept.20-Oct.5,1950. 286.86 Z3

Germany.

47115 FOUILLAND, G. Il faut unifier la défense des intérêts viticoles. *Agriculture [Paris]* 15(121):45. Feb. 1951. 14 Ag823

47116 GARINO-CANINA, E. Activators and inhibitors in wine fermentation. (In Italian.) *Cong. Agr. Naz. Atti* 1948:555-564. 1950. 27 C7625

47117 GONZALEZ, C. Informe sobre las conferencias de técnicos cafeteros efectuadas en El Salvador, del 16 al 19 de octubre de 1950. *Suelo Tico* 4:341-342. Nov./Dec. 1950. 8 Su2

47118 GREEN, S. R., and GRAY, P. P. A differential procedure applicable to bacteriological investigation in brewing. *Amer. Soc. Brewing Chem. Proc.* 1950:19-32. Ref. 1951. 390.9 Am321

Includes discussion.

47119 GRIEBEL, C. Zur unterscheidung der durch sternhaare ausgezeichneten verfälschungsmittel des majorans. *Z. f. Lebensmtl.-Untersuch. u. -Forsch.* 92:101-105. Feb.1951. 384 Z39

47120 JOLY, R. L. Le café. *Chim. & Indus.* 65:335-338. Mar.1951. 383 C42

Analysis, processing, and consumption.

47121 KAUFMAN, C. W. Recent advances in coffee technology. *Food Technol.* 5:154-159. Apr.1951. 389.8 F7398

47122 KELLER, J. Akrobat-schöön! Weinbau 6:72-73. Feb.18,1951. 390.8 W432

German wine industry.

47123 KOCH, J. Chocolate tempering practice. *Confectionery Prod.* 17:181,183,206. Mar.1951. 389.8 C762

47124 KRÄMER, W. Bierfiltration auf neuen wegen. *Brauwelt* 1951:112-114. Feb.15,1951. 390.8 B732

47125 LANDES, K. H. What to know about cassias. *Coffee & Tea Indus.* 74(4):69. Apr.1951. 389.8 Sp4

47126 LENSE, K. Zur krisis des dunklen bieres. *Brauwelt* 1951:197-199. Mar.15,1951. 390.8 B732



- 47127 MARSH, G. L. Refrigeration in wine making. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.351-358. New York, 1951. 295.9 Am32Ref
- 47128 MEDINA, A. R. DE. Coffee technology and size of farm. (In Portuguese.) Gaz. do Agr. 2:278-282. Nov. 1950. 24 G25  
Includes processing costs.
- 47129 MICKEVICZ, M. J. Understanding heat as applied to chocolate handling. Confectioners J. 77(915):36-37. Apr. 1951. 389.8 C76
- 47130 MOENS, L. La toilette du moût et de la bière. Petit J. du Brasseur 59:166-169, 183-188. Mar. 2-9, 1951. 390.8 P44
- 47131 MONSERRAT, J. Problems of the grape and wine industry. II. (In Portuguese.) Coop [Bahia] 9(81):7-8, 20. Aug. 1950. 280.28 C7842  
Brazil.
- 47132 NAVELLIER, Recherche et dosage des composés bromés dans les vins. (Sum.) Ann. des Falsif. et des Fraudes 43:206-207. July/Sept. 1950. 389.8 An72  
Bromacetic acid compounds.
- 47133 NÈGRE, E., and others. Étude d'appareils vinicoles du point de vue œnologique. III. Indus. Agr. et Aliment. 68:23-48. Jan./Feb. 1951. 383 As7  
M. Marichal, G. Marteau, and R. Cordonnier, joint authors.
- 47134 ORIZET. Compte rendu d'activité des agents techniques de l'I.N.A.O. [Institut National des Appellations d'Origine des Vins et Eaux-de-Vie] au cours de la campagne 1948-1949. France. Inst. Natl. des Appellations d'Origine des Vins et Eaux-de-Vie. B. 35:1-17. Sept. 1950. 390.9 F843
- 47135 PALIERI, G. Mechanical equipment in modern wine manufacture. (In Italian.) Cong. Agr. Naz. Atti 1948:565-595. 1950. 27 C7625
- 47136 PECHNIK, E., BORGES, P., and GUIMARÃES, L. R. Contribution to the study of cacao fat. (In Portuguese.) Arq. Bras. de Nutr. 7:225-242. Ref. July/Aug. 1950. 389.8 Ar6  
English summary.
- 47137 PEREZ VILLALBA, O., and MARTINEZ ABREU, A. Importancia actual del cultivo del cacao en Cuba. Agrotecnia 5:51-54. Jan./Feb. 1951. 8 Ag825
- 47138 PEYER, E. Garantiezeichen für die gute der weine. Weinbau 6:81. Feb. 18, 1951. 390.8 W432  
Germany.
- 47139 PEYNAUD, E., and CHARPENTIE, Y. Note sur le dosage de l'acide lactique dans les boissons fermentées. Ann. des Falsif. et des Fraudes 43:246-252. July/Sept. 1950. 389.8 An72
- 47140 PRAETORIUS, F. F. K. Strukturelle Veränderungen der weltbierproduktion und Deutschlands exportmöglichkeiten. Brauwelt 1950:769-771. Sept. 14, 1950. 390.8 B732
- 47141 PRATOLONGO, U. Underconsumption of wine. (In Italian.) Glor. di Agr. 61:81. Mar. 18, 1951. 16 It1G  
Italy.
- 47142 RECASENS, L. DE. La fabricación de alcoholes vinicos. Cult. Mod. 34:5-6. Jan. 1951. 15 C89
- 47143 RENAUD, J. Biologie du vin. Paris, Presses Universitaires de France, 1950. 126 p. ("Que Sais-je?" Le Point des Connaissances Actuelles, No. 442) 390.1 R292  
Wine yeasts.
- 47144 RIBÉREAU-GAYON, J. Grands vins rouges 1949. Colon Franç. de Tunisie (ser.7) 60(2145):1-2. May 20, 1950. 24 C712
- 47145 ROBERTS, F. J., and STEWART, T. J. Practical applications of the hand refractometer to brewing operations. Amer. Soc. Brewing Chem. Proc. 1950:118-122. Ref. 1951. 390.9 Am321
- 47146 RÜCKER, H. Zur lage auf unserem weinmarkt. Österr. Weinztg. 6:24-25. Feb. 25, 1951. 390.8 Os7
- 47147 SAHNER, W., and GNEIST, H. Betrachtungen zur kaltsterilisierung des bieres mit dem EK-filter. Brauwelt 1951:135-136. Feb. 22, 1951. 390.8 B732
- 47148 SALVADOR, A. N. Brindles from wines. (In Portuguese.) Frutas da Madeira 10:84, 86, 88. Jan. 1951. 286.83 F9422
- 47149 SALVADOR Y ASCASO, J. M. El campo de la historia en la historia del campo: la planta del té; su cultivo; curiosa leyenda sobre su origen. Saragossa. Cám. Ofic. Sind. Agr. B. Mens. 31:10, 12. Dec. 1950. 15 Sa7
- 47150 SANTURIO, J. La verdad sobre el café. Cuba Econ. y Financ. 26(299):11. Feb. 1951. 286.8 C892
- 47151 SCHILD, E., and HUYMANN, M. V. New advances in the study of oxidation and reduction in wort and beer. Brewers Digest 26(2):49-52. Ref. Feb. 1951. 390.8 B75
- 47152 SCHILD, E., and RIEDL, W. Zur frage der mitverwendung von hopfenextrakt bei der bierbereitung. II. Brauwissenschaft 1951:38-43. Ref. Mar. 1951. 390.8 B733
- 47153 SPECHT, W. Bitterstoff durch ultraschall; ein verfahren zur rationellen hopfung des bieres. Brauwelt 1951:200-203. (Cont.) Mar. 15, 1951. 390.8 B732
- 47154 STEWART, T. J., WILCOX, F. A., and TENNEY, R. I. Relations between proteolysis and temperature and effect upon protein fractions produced during mashing. Amer. Soc. Brewing Chem. Proc. 1950:44-50. 1951. 390.9 Am321  
Includes discussion.
- 47155 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Utilization of farm crops. Price spreads, coffee, report of a subcommittee, 81st Cong., 2d sess., pursuant to S. Res. 36 and S. Res. 198. Washington, 1950. 44 p. 284.368 Un3
- 47156 VAN TIGHEN, C. J. Brazilian black tea industry is dependent on export markets. Foreign Trade 9:608-609. Apr. 14, 1951. 286.8 C162
- 47157 VERBIST, J. Le café, principal produit d'exportation du Brésil. Soc. Belge d'Études et d'Expansion. B. Bimes. 50(144):35-39. Jan./Feb. 1951. 280.8 So17
- 47158 WEILER, W. Wie wird der einundfünfzigler? Weinbau 6:76. Feb. 18, 1951. 390.8 W432  
Outlook for the German wine industry.
- 47159 WEISS, J. Nachdenkliches über den fränkischen weinbau. Weinbau 6:85-86. Feb. 18, 1951. 390.8 W432
- 47160 WEST, D. B., EVANS, R. F., and BECKER, K. Chromatographic analysis in the brewing laboratory. Amer. Soc. Brewing Chem. Proc. 1950:107-117. Ref. 1951. 390.9 Am321  
Includes discussion.
- 47161 WILHARM, G., and HOLZ, G. Beitrag zur kenntnis des acroleins in obstbränden, maischen und mosten. III. Z. f. Lebensmtl.-Untersuch. u. -Forsch. 92:96-99. Feb. 1951. 384 Z39
- 47162 WINE INSTITUTE. Fifteenth annual wine industry statistical survey. 1. Wine Inst. B. 517, 27 p. Mar. 9, 1951. 390.9 W72
- 47163 WIRTH. Die weinmosternte 1950. Statist. Monatsh. Württemberg-Baden 5:20. Jan. 1951. 265 St24  
Statistics.
- 47164 WISSENSCHAFTLICHE STATION FÜR BRAUEREI, MUNICH. Jahresbericht 1950. Brauwelt 1951:132-135. (To be cont.) Feb. 22, 1951. 390.8 B732
- 47165 WITHAM, P. E. Tea. Gt. Brit. Colon. Devlpmt. Corp. Colon. Devlpmt. 1(4):10-11. Winter 1950/51. 280.9 G7933C  
The industry.
- 47166 WITT, P. R., JR., and OHLE, R. L. The effect of boiling on the color and on the indicator time test of laboratory wort. Amer. Soc. Brewing Chem. Proc. 1950:37-43. 1951. 390.9 Am321  
Includes discussion.
- 47167 WITT, P. R., JR., and OHLE, R. L. The lactic acid contents of beers. Amer. Soc. Brewing Chem. Proc. 1950:123-129. 1951. 390.9 Am321  
Includes discussion.
- 47168 WUHRER, P. Beiträge zur technologie der bierbereitung. Brauwissenschaft 1950:177-183. Sept. 1950. 390.8 B733

## DAIRY PRODUCTS

- 47169 ANNIBALDI, S. A few words on grana cheese. (In Italian.) Campagnolo 6:1-2. Jan. 1951. 16 C15  
Situation in Italy.
- 47170 ATKESON, F. W. Kansas had big part in dairy industry growth. 24. Kans. Farmer 88(5):10, 21-22. Mar. 3, 1951. 6 K13
- 47171 ATKINSON, L. A., and NADEAU, J. P. The fluid market milk industry. Agr. Inst. Rev. 6(2):35-40. Mar. 1951. 7 Ag8  
Canada.
- 47172 BAULAND, T. H. The ice cream industry. Agr. Inst. Rev. 6(2):51-52. Mar. 1951. 7 Ag8
- 47173 BERGE, R. VAN DEN. Le lait dans le Haut-Ituri. Belgium. Min. des Colon. B. Agr. du Congo Belge 42:135-142. Mar. 1951. 24 K83
- 47174 BONOMI, P. Why the dairy-cheese sector needs to be supported. (In Italian.) Agenzia Romana Note e Inform. Agr. 1951(19):1-3. Mar. 22, 1951. 281.8 Ag3
- 47175 BRINCKMAN, W. La spéculation laitière et son avenir. Agriculteur 55(10):3-5. Mar. 11, 1951. 13 B63P  
Belgium.



- 47176 BRITISH DAIRY FARMERS' ASSOCIATION. Catalogue of 64th annual dairy show, Olympia, London, W.14, October 24th, 25th, 26th, and 27th, 1950. Plymouth, 1950. 400 p. 44.9 B77C
- 47177 BROWN, R. W. Education in the dairy field. Agr. Inst. Rev. 6(2):74-77. Mar.1951. 7 Ag8 Canada.
- 47178 CLARKE, E. H. The Associated Milk Foundations. Agr. Inst. Rev. 6(2):83. Mar.1951. 7 Ag8 Canada.
- 47179 COMISSO, G. Milk of the Trevisa mark. (In Italian.) Latte 25:17. Jan.1951. 44.8 L35
- 47180 COOPER, T. B. The cheese industry. Agr. Inst. Rev. 6(2):43-46. Mar.1951. 7 Ag8 Canada.
- 47181 DELPECH, R. P. Panorama actual y perspectivas de la lechería argentina. Criadores de Holando 1(9): 12-13,69;(11):46,48,78. June-July/Aug.1950. 43.8 C86
- 47182 DERBY, H. A. Dairy industry in 1950 and work of Dairy Products Board. Canad. Dairy & Ice Cream J. 30(3):29-30,70. Mar.1951. 44.8 C162
- 47183 DURAND, L., JR. The lower peninsula of Michigan and the western Michigan dairy region: a segment of the American dairy region. Econ. Geog. 27:163-183. Apr.1951. 278.8 Ec7
- 47184 ECKLES, C. H., COMBS, W. B., and MACY, H. Milk and milk products; prepared for the use of agriculture college students. Ed. 4. New York, McGraw-Hill, 1951. 454 p. (McGraw-Hill P. in the Agr. Sci.) 44 Ec5M
- 47185 EVANS, O. R. Canadian dairy organizations: Introduction. Agr. Inst. Rev. 6(2):79-80. Mar.1951. 7 Ag8
- 47186 FISHER, C. H., DIXON, M. B., and FILACHIONE, E. M. Bibliography on lactic acid and derivatives. U. S. Bur. Agr. & Indus. Chem. AIC-294,135 p. Feb. 1951. 1.932 A2Ag82
- 47187 FULGENZI, U. N. Present aspects of milk production in the Province of Perugia. (In Italian.) Agricoltore [Perugia] 8(4):3. Feb.15/28,1951. 281.8 Ag822
- 47188 GENOUD, J. F. Comenta un pionero de la raza. Organización de futuras exposiciones de lechería. Criadores de Holando 1(11):22. July/Aug. 1950. 43.8 C88
- 47189 HALL, H. T. B. Some aspects of dairying in Fiji. Fiji. Dept. Agr. Agr. J. 21(1/2):11-20. Ref. Mar./June 1950. 25 F47Ag
- 47190 HUDSON, S. C., and LATTIMER, J. E. Dairying in Canadian agriculture. Agr. Inst. Rev. 6(2):17-20. Mar.1951. 7 Ag8
- 47191 HUGHES, C. E. Big changes shake the dairy industry. 7. Successful Farming 49(4):33,124-126,128. Apr.1951. 6 Su12
- 47192 INDIA. IMPERIAL DAIRY DEPT. Annual report for the year ending June 1947. Calcutta, 1950. 29 p. 44.9 Im7
- 47193 JOHNSTONE, E. A. Butter and butter prices. West. Farm Leader 16:98-99. Apr.6,1951. 280.28 W52
- 47194 KELLER, H. Milchwirtschaftliches rechnen. Molk.-Ztg. 5:200. (Cont.) Feb.22,1951. 44.8 M735
- 47195 KITCHEN, E. The Dairy Farmers of Canada. Agr. Inst. Rev. 6(2):81-82. Mar.1951. 7 Ag8
- 47196 LASCELES, H. R. Western dairying. Danville, Ill., Interstate, 1951. 280 p. Ref. 44 L334
- 47197 LAUTERBACH, A. H. What's ahead? PMA manager looks at '51 prospects. Popkess' Dairyman's J. 37(12):11. Mar.1951. 44.8 D142
- 47198 MACOLA, P. Economic defense of Sardinian grazing through a new form of association. (In Italian.) Agenzia Romana Note e Inform. Agr. 1951(10):1-2. Feb.7, 1951. 281.8 Ag3
- Cheese organizations.
- 47199 MARRACINO, R. The southern livestock and cheese problem. (In Italian.) Latte 25:15-16. (To be cont.) Jan.1951. 44.8 L35
- Italian cheese industry.
- 47200 MELHUUS, N. The dairy industry in Trøndelag 1950. (In Norwegian.) Meieriposten 40:97-101. Feb.10, 1951. 44.8 M47
- 47201 MERISH, F. Adequate accounting systems for greater efficiency. Milk Plant Mon. 40(3):54-56. Mar. 1951. 44.8 C864
- 47202 MILLER, C. J. The outlook for 1951. Milkman 1951:1. Feb.1951. 44.8 M5962
- Dairy industry.
- 47203 NEW SOUTH WALES. DAIRY PRODUCTS BOARD. Report for the year ended 30th June, 1950. Sydney, 1951. 3 p. 281.3449 N47
- 47204 NILSEN, A. The dairy industry in North Norway. (In Norwegian.) Meieriposten 40:149-152. Mar.3, 1951. 44.8 M47
- 47205 PETERMANN, R. Um sachkunde kommt man nicht herum. Deut. Milchhandels-Ztg. 73:116. Feb.23, 1951. 44.8 D48
- 47206 POMPA, A. American ice cream in Italy. Ice Cream Rev. 34(8):106. Mar.1951. 389.8 Ic22
- 47207 RABUFFO, V. M. New trends that are influencing the current and future volume of ice cream. Ice Cream Trade J. 47(3):58-59,64,66. Mar.1951. 389.8 Ic2
- 47208 RICHARDS, P. Dairying and the national emergency. (Sum.) Kans. City Coop. Dairyman 21:5,12. Jan. 1951. 280.28 K13
- 47209 RØNNEVIG, G. M. Report on the year 1950. (In Norwegian.) Meieriposten 40:42-47. Jan.20,1951. 44.8 M47
- The dairy industry in southern and western Norway.
- 47210 ROOSENSCHOON, C. F. Van vader op zoon; gedenkboek uitgegeven ter gelegenheid van het 50-jarig bestaan van de Algemeene Nederlandsche Zuivelbond [From father to son; memoir published for the 50th anniversary of the Netherlands General Dairy Association]. Der Haag, 1950. 173 p. 44 R67
- 47211 RUEHE, H. A. Butter in a garrison state. Butter Ideas 4(7),7 p. Feb.1951. 44.8 B984
- 47212 SIMONET, R. A. Chocolate milk. (Excerpts.) Milk Dealer 40(6):64,66,68. Mar.1951. 44.8 M595
- 47213 SKÅLTVEIT, T. Report on the year 1950. (In Norwegian.) Meieriposten 40:114-117. Feb.17,1951. 44.8 M47
- Note on the dairy industry in North Norway.
- 47214 SKREDEEN, I. The dairy industry in Hedmark-Oppland in 1950. (In Norwegian.) Meieriposten 40:101-104. Feb.10,1951. 44.8 M47
- 47215 STEDJE, O. Report on the year 1950. (In Norwegian.) Meieriposten 40:57-61. Jan.27,1951. 44.8 M47
- The dairy industry in West Norway.
- 47216 SVENSKA MEJERIERNAS RIKSFÖRENING U. P. A. Driftsanalyser för svenska mejerier XVII bokföringsåret 1949 [Management analysis of Swedish dairies, XVII, fiscal year 1949]. Halmstad, 1951. 178 p. 281.3449 Sv2
- 47217 THOMPSON, J. I. Dairy industry under defense mobilization. Washington, U. S. Prod. & Mktg. Admin., 1951. 11 p. 1.956 A2T37
- Talk at the Annual Convention of the New England Milk Dealers, Boston, Mar. 28, 1951.
- 47218 TURNBULL, J. S. The butter industry. Agr. Inst. Rev. 6(2):30-33. Mar.1951. 7 Ag8 Canada.
- 47219 VESA, I. A modern milk plant. (In Portuguese.) Fazenda 46(2):36-37. Feb.1951. 6 H11P
- Cuba.
- 47220 ZANON, V. Observations on the cheese situation. (In Italian.) Almanacco Agr. (1951)62:153-155. 1950. 16 AL6
- Italy.
- Analysis and Composition
- 47221 ANTONIANI, C., GOBIS, L., and PISEK, A. The content and significance of butylenic glycol, acetylmethylcarbinol and diacetyl in milk and cheeses. (In Italian.) Ann. della Sper. Agr. (n.s.):5:423-432. Ref. 1951. 16 An76
- English summary.
- 47222 ARMAN, G. Acidité ionique; son importance et son rôle dans l'industrie laitière. Tech. Lait. 7(75):11-17. Feb.8,1951. 44.8 O12
- Milk.
- 47223 BEGIN, P. E. Oléomargarine versus beurre. Québec Lait. 10(2):30-34. Feb.1951. 44.8 Q3
- Composition.
- 47224 BROUWER, T. Phenolphthalein. (In Dutch.) Zuivelbereiding en -Handel 57:189,191. Mar.13,1951. 44.8 N282
- Acidity determination in milk.
- 47225 CANADA. DEPT. OF AGRICULTURE. DIV. OF BACTERIOLOGY AND DAIRY RESEARCH. Tests for milk, cream, butter, cheese, ice cream and dairy by-products. Canada. Dept. Agr. P. 611, rev., 44 p. Dec.1950. 7 C16Pu
- 47226 CENTRE NATIONAL DE COORDINATION DES ÉTUDES ET RECHERCHES SUR LA NUTRITION ET L'ALIMENTATION. Méthodes d'appréciation de la qualité bactériologique des laits crus. Ann. de la Nutr. et de l'Aliment. 4:237-251. 1950. 389.8 An73
- 47227 CHALMERS, C. H. The importance of the phosphate test. Dairyman 68:151,153,155,157. Mar.1951. 44.8 D1426
- Milk.



- 47228 CHELQUIST, G. Butterfat testing. *Dairymen's Price Rptr.* 33(3):14-16. Mar.1951. 280.28 D14
- 47229 DAM, W. VAN. The rapidity of citric acid analysis through aroma bacteria in its relation to citric acid concentration. (In Dutch.) *Zuivelbereiding en -Handel* 57:171-172. Mar.6,1951. 44.8 N282
- In milk.
- 47230 DOETSCH, R. N., and SCOTT, W. M. Psychrophilic bacteria in milk and cream. *Milk Plant Mon.* 40(3):30-32. Ref. Mar.1951. 44.8 C864
- 47231 EUGENE-ROCHESSON, J. De la présence du bacille tuberculeux dans le lait et ses produits dérivés. Paris, Foulon, 1950. 148 p. Ref. 44 Eu42
- Thèse - Ecole Nationale Vétérinaire d'Alfort.
- 47232 GAUMNITZ, E. W. Methods of instigating research in dairy waste under the Research and Marketing Act. *Indus. Waste Conf. Proc.* (1949)5:421-423. 1950. 381 ln2
- Chemical.
- 47233 GERSHENFELD, L., and ROSENTHAL, M. H. Fat determinations in milk and milk products. *J. Milk & Food Technol.* 14:17-18. Jan./Feb.1951. 44.8 J824
- 47234 GRANVILLE, A., and DESMET, F. Détermination de la teneur en matière grasse des fromages, au moyen du butyromètre Gerber. *Ann. de Méd. Vét.* 95:31-35. Jan.1951. 41.8 An78
- 47235 HENICK, A. S. Detection of deterioration products of autoxidizing milk fat by infrared spectrophotometry. *Food Technol.* 5:145-147. Apr.1951. 389.8 F7398
- 47236 HOLLARD, M. G. Solids in milk. *Canterbury Chamber Com. B.* 258,4 p. Jan.1951. 23 C162
- Fat and solids-not-fat.
- 47237 HONER, C. J., and HERZER, F. H. A study of the composition of milk produced in different areas of Mississippi. *Miss. Agr. Expt. Sta. B.* 474,24 p. Oct.1950. 100 M69
- 47238 JOHNSON, R. The sampling of ice cream. *Dairy Indus.* 16:267-268. Mar.1951. 44.8 D1427
- 47239 JULIEN, J. P. Détermination de l'humidité dans les produits laitiers. *Québec Lait.* 10(2):16-18. Ref. Feb.1951. 44.8 Q3
- 47240 KNIGHT, S. G. Los mohos en la lechería. *Asoc. Gen. de Agr. B.* 289:5. Feb.28,1951. 8 As52
- 47241 KOCOWICZ, I., and WISNIOWSKI, J. Serological examination of market milk for brucellosis in Cracow. (In Polish.) *Med. Weter.* 6:589-590. Oct.1950. 41.8 M463
- 47242 KOSIKOWSKY, F. V. Paper partition chromatography of the free amino acids in American Cheddar cheese. *J. Dairy Sci.* 34:228-234. Ref. Mar.1951. 44.8 J822
- 47243 MCBRIDE, C. A., and GOLDING, N. S. A study of resazurin reduction in freshly drawn mastitic-like milk. *J. Milk & Food Technol.* 14:27-30. Ref. Jan./Feb. 1951. 44.8 J824
- 47244 MILLER, D. D., and ELLIKER, P. R. A rapid method of testing for quaternary ammonium compounds in milk. *J. Dairy Sci.* 34:273-278. Ref. Mar.1951. 44.8 J822
- 47245 NAVELLIER. A propos du dosage des cendres de lait. (Sum.) *Ann. des Falsif. et des Fraudes* 43:205-206. July/Sept.1950. 389.8 An72
- 47246 NILSSON, G. Studies on the relation between oxidation-reduction potential, methylene blue reduction time and the bacterial and leucocyte content of milk from individual cows. *Sweden. Lantbrhögsk. Ann.* 17:361-374. 1950. 104 Up6
- 47247 ROSATI, T. Bacteriological examination of ice cream with special reference to enterotoxic staphylococci. (In Italian.) *Zooprofilassi* 6:1-2,5-12,14-16. Ref. Jan.1951. 41.8 Z72
- English summary.
- 47248 SASAKI, Y. A study of molds in butter. *Hokkaido U. Facul. Agr. J.* 49:121-249. Dec.1950. 107.6 J273J
- 47249 SIDDIQUI, R. H. Buffalo, buffalo milk & ghee in Pakistan. *Agr. Pakistan* 1:161-185. Ref. 1950. 22 Ag832
- Includes composition, quality, and nutritive value of the milk and ghee.
- 47250 SMITH, A. C., and DOAN, F. J. The expansion of the cream volume of fluid milk by the addition of superheated condensed milk and its detection. *J. Milk & Food Technol.* 14:23-26,45. Jan./Feb.1951. 44.8 J824
- 47251 STANLEY, W. G., WHITNAH, C. H., and ANDREWS, A. C. Electrophoresis of milk proteins. II. Some effects of methods of preparation on the electrophoretic patterns of whey proteins. *J. Dairy Sci.* 34:265-272. Ref. Mar.1951. 44.8 J822
- 47252 STROBEL, D. R., and BABCOCK, C. J. A filtration method for determining sediment in roller process nonfat dry milk solids. *J. Dairy Sci.* 34:167-175. Mar. 1951. 44.8 J822
- 47253 VOLCANI, R. Butterfat content of cows milk. (In Hebrew.) *Jewish Agency Palestine. Agr. Res. Sta. B.* 53,32 p. Mar.1950. 107 Z6
- English summary.

### Consumption and Utilization

- 47254 ASHWORTH, U. S., and KRUEGER, G. J. Chemical factors affecting the baking quality of nonfat milk solids. IV. *Cereal Chem.* 28:145-152. Mar.1951. 59.8 C33
- 47255 REGER, J. V., and others. A comparison of dry sweet cream buttermilk and non-fat dry milk solids in breadmaking. *J. Dairy Sci.* 34:136-144. Ref. Feb.1951. 44.8 J822
- W. B. Combs, S. T. Coulter, and R. B. Koch, joint authors.

### Distribution, Marketing, and Transportation

- 47256 BILDEN, C. M. Cooperative creameries. *Amer. Coop.* 22:513-518. 1950. 280.29 Am3A
- 47257 CRONSHEY, R. H. Centralized selling and service for operating cooperatives. *Amer. Coop.* 22:563-564. 1950. 280.29 Am3A
- Dairy cooperatives.
- 47258 DAIRY marketing; problems involved in forming and operating a dairy cooperative. *Amer. Coop.* 22:529-548. 1950. 280.29 Am3A
- Panel discussion; P. L. Talbot, chairman.
- 47259 ELDRED, R. E. A retailer tells how to increase cheese sales. *Butter, Cheese & Milk Prod. J.* 42(4):22-23. Apr.1951. 286.85 B98Bu
- 47260 GOLEY, R. T. Developing and operating bargaining and processing associations. *Amer. Coop.* 22:537-544. 1950. 280.29 Am3A
- Dairy cooperatives.
- 47261 GRAHAM, B. S. Developing and operating bargaining and processing associations; bargaining. *Amer. Coop.* 22:547-548. 1950. 280.29 Am3A
- Dairy cooperatives.
- 47262 IVARSON, E. [Norwegian Creameries] Marketing Center and its activities in 1950. (In Norwegian.) *Meieriposten* 40:21-27. Jan.13,1951. 44.8 M47
- 47263 LOUGHARY, F. Golden Guernsey milk sales show large increase in California. *Calif. Dairyman* 31(5):37,40. Apr.7,1951. 44.8 C12
- 47264 LOUWES, H. J. A dairy cooperative in Pennsylvania. (In Dutch.) *Co-operatie* 13(144):9-10. Jan.1951. 280.29 N216M
- 47265 MERISH, F. Effective advertising for your milk plant. *Milk Plant Mon.* 40(3):76-78. Mar.1951. 44.8 C864
- 47266 MOOMAW, M. R. We need better public relations; how dairy farmers, dealers, and unions in Stark County, Ohio, joined hands to create a "favorable climate for sales." *Hoard's Dairyman* 96:302-303. Apr.10, 1951. 44.8 H65
- 47267 MULDOON, H. J. I'm getting gallonage with bulk. *Ice Cream Rev.* 34(8):40-41,90-92,94. Mar.1951. 389.8 lc22
- Marketing.
- 47268 NIAGARA FRONTIER COOPERATIVE MILK PRODUCERS BARGAINING AGENCY, RESOLUTIONS COMMITTEE. Report, thirteenth annual meeting held at Hotel Lafayette, Buffalo, N. Y., November 14, 1950. n.p., 1950. 4 p.-folder. 280.29 N51
- 47269 PHILADELPHIA MILK MARKETING AREA. Milk and skim milk in bulk to baking plants. Philadelphia, 1950. sheet. 280.344 P532
- 47270 PRITCHARD, N. T. Volume discounts in milk hauling. *Hoard's Dairyman* 96:309. Apr.10,1951. 44.8 H65
- 47271 REED, O. M. A latter day view of opportunities. *Amer. Coop.* 22:529-536. 1950. 280.29 Am3A
- Dairy cooperatives.
- 47272 ROTTENSTEN, J. Dairy products marketing situation in West Germany in 1950. (In Danish.) *Dansk Landbr.* 70:91-93. Feb.22,1951. 280.28 V91
- 47273 ST. JOHN, W. K. The National Dairy Council of Canada. *Agr. Inst. Rev.* 6(2):84. Mar.1951. 7 Ag8



- 47274 SIMMONS, H. F. Multiple market management. Amer. Coop. 22:554-562. 1950. 280.29 Am3A  
Includes discussion.  
Dairy cooperatives.  
47275 SPEERS, A. M. Consumer relations and the dairy industry. Agr. Inst. Rev. 6(2):70-72. Mar.1951. 7 Ag8  
Canada.  
47276 STALLONES, B. E. Developing and operating bargaining and processing associations: bargaining. Amer. Coop. 22:545-547. 1950. 280.29 Am3A  
Dairy cooperatives.  
47277 SWAYER, W. J. How have Federal milk orders helped producers in fluid milk markets? Amer. Coop. 22:549-553. 1950. 280.29 Am3A  
Includes discussion.  
47278 YOHALEM, A. E. "Plus" profits in milk vending. Amer. Milk Rev. 13(4):6-8,78. Apr.1951. 44.8 Am38

#### Grading, Inspection, Standardization, and Quality

- 47279 BARTLETT, S., and KAY, H. D. Milk quality. Roy. Agr. Soc. Eng. J. 111:87-98. Ref. 1950. 10 R81  
47280 BOLAND, H. A. The ninety and the ten; some observations on the small number of producers who make most of the poor milk. Amer. Milk Rev. 13(4):54,56,78-79. Apr.1951. 44.8 Am38  
47281 CAMERON, W. C. The grading of dairy products. Agr. Inst. Rev. 6(2):53-55,57-58. Mar.1951. 7 Ag8  
Canada.  
47282 DAHLBERG, A. C. Let us consider our sanitary milk legislation. (Condensed.) J. Milk & Food Technol. 14:31-32. Jan./Feb.1951. 44.8 J824  
47283 GT. BRIT. MILK MARKETING BOARD. Quality milk production. Gt. Brit. Milk Mktg. Bd. Milk Facts & Figures 10, rev., 11 p. Dec.1950. 44.9 G792  
47284 GREYLING, G. P. Palatability of milk. (In Afrikaans.) So. African Dairyman 13:35,37,50. Ref. Feb. 1951. 44.8 S822  
47285 GROVES, W. F. What is grade A milk? Hoard's Dairyman 96:300-301. Apr.10,1951. 44.8 H65  
47286 KJOS-HANSEN, B. Penicillin and the creameries. (In Norwegian.) Meieriposten 40:74-78. Ref. Feb.3,1951. 44.8 M47  
Effect on milk.  
47287 MACKINTOSH, J. Paying for milk on quality. Farmer & Stock-Breeder 65(3205):35-36. Mar.27/28,1951. 10 F228  
47288 MUKHERJEE, S. Studies on rancidity of butterfat. II-VIII. Indian Chem. Soc. J. 27:539-544,545-547, 557-562,586-588,589-598,607-609,613-614. Oct.-Nov. 1950. 385 In27  
II, The use of l-ascorbyl esters of fatty acids as antioxidants, by S. Mukherjee, S. Ray, and M. Goswami; III, Use of ethyl gallate in combination with other antioxidants, by S. Mukherjee, S. Ray, and M. Goswami; IV, Preliminary investigations on factors influencing rancidity; V, The effect of temperature; VI, The action of light; VII, Influence of water and humidity on rancidity; VIII, Chemical accelerators of rancidity. The effect of peroxides and volatile products of oxidation of fat on rancidity.  
47289 NEWTON, M. A. Cardboard flavor; what is it doing to your milk business? Milk Dealer 40(6):40-41, 54,56,60. Mar.1951. 44.8 M595  
47290 SCHAEFFER, C. O., and HOAT, A. G. Results of the bacteriological research of ices. (In Dutch.) Chron. Nat. 106:435-441. Oct./Nov.1950. 514 B31  
English summary.  
Indonesia.  
47291 SEXAUER, F. H. Sound pricing of class 3 milk. Dairyman's League News 35(8):3,16. Apr.17,1951. 44.8 D1432  
47292 SJOSTROM, L. B., and CAIRNCROSS, S. E. Flavor profiles. Amer. Milk Rev. 13(4):42,46,77. Apr. 1951. 44.8 Am38  
47293 STULL, J. W., HERREID, E. O., and TRACY, P. H. A study of the effect of nordihydroguaiaretic acid on the oxygen absorption of the phospholipid fraction of milk. I-II. J. Dairy Sci. 34:181-194. Ref. Mar.1951. 44.8 J822  
47294 THOMSEN, L. C. What determines cream quality? Butter, Cheese & Milk Prod. J. 42(4):30-32,50, 54. Apr.1951. 286.85 B98Bu  
47295 WECKEL, K. G. Integrated supervision of milk quality control. (Condensed.) J. Milk & Food Technol. 14:33-34. Jan./Feb.1951. 44.8 J824

#### Packing and Packaging

- 47296 MEINSMA, J. J. The action of buttermilk on the lead-containing tin linings of milk cans. (In Dutch.) Chem. Weekbl. 47:85-87. Ref. Feb.10,1951. 385 C42  
47297 MOLDAVAN, A. Glass or paper Mr. Dairyman? Canad. Food Indus. 22(4):29,31. Apr.1951. 286.83 C166  
47298 PAXTON, R. Your carton helps you merchandise your ice cream. (Excerpts.) Ice Cream Rev. 34(8): 111. Mar.1951. 389.8 Ic22  
47299 PINNELL, D. S. Louisville knows its bottles; a change from round to square containers is evaluated in the light of eight months experience. Amer. Milk Rev. 13(4):40-41,75. Apr.1951. 44.8 Am38  
47300 TUCKEY, S. L., and others. The sanitizing of milk cans in mechanical can washers. J. Milk & Food Technol. 14:7-12,41. Jan./Feb.1951. 44.8 J824  
G. W. Reinbold, P. H. Tracy, and R. V. Hussong, joint authors.

#### Prices, Price Control, and Rationing

- 47301 BRESSLER, R. G., JR. Dairy economy--war-time conditions boost prices, make increased efficiency vital. West. Dairy J. 7(5):36-37. Mar.1.1951. 44.8 W524  
47302 DENUX, P. Le paiement du lait à la matière grasse. Tarn-et-Garonne Agr. 14:8-9. Jan.1951. 14 T17  
47303 FROSTENSON, G. Milk regulation in USA. (In Swedish.) Lantmannen 35:241-242. Mar.24,1951. 11 L234  
Prices.  
47304 JANOWSKI, H., PARANGAUX, P., and DER- RUA, J. Étude des facteurs de qualité pour le paiement du lait. Tech. Lait. 7(75):23-36. (To be cont.) Feb.8, 1951. 44.8 Of2  
France.  
47305 JOHNSON, S. Formulas in the marketing of milk. C. M. P. A. Bulletin 32(379):17-19. Mar.1951. 44.9 C768  
47306 KLAIBER, W. So steht es um den gadischen milchpreis! Bauern Ztg. 4(9):3. (To be cont.) Mar.2, 1951. 18 B324  
47307 PHILADELPHIA MILK MARKETING AREA. Current data for consideration of recommended decision and hearing notice issued October 20, 1950. Philadelphia, 1950. 5 p. 284.344 P53C  
Prices and statistics.  
47308 QUADRI, P. System proposed for determining the price of milk for food in the Province of Modena. (In Italian.) Latte 25:24. Jan.1951. 44.8 L35  
47309 ROBERTS, J. B., and GRAYSON, G. Formula pricing of fluid milk. Ky. Agr. Expt. Sta. B. 558,56 p. Nov.1950. 100 K41  
47310 SPENCER, L. Regulation--its effect on prices. Amer. Milk Rev. 13(4):18,18,20,78. Apr.1951. 44.8 Am38  
47311 SPENCER, L. 17 years of Federal-State control. East. Milk Prod. 27(2):4. Feb.1951. 280.28 Sh3  
Price control.  
47312 STROBELE. Zur milchpreisfrage. Bad. Land- wirt. Wchnbl. 118:138-139. Mar.3,1951. 18 B142

#### Processing and Storage

- 47313 AMUNDSTAD, O. Importance of technique of manufacture for butter consistency. (In Norwegian.) Meieriposten 40:27-42,62-65,80-86. (Cont.) Jan.20-Feb. 3,1951. 44.8 M47  
47314 BAUR, R. Der vollautomatische milchabfüll- und -abmessapparat, system Krüger. Deut. Milchhandels- Ztg. 73:86-87. Feb.9,1951. 44.8 D48  
47315 BERGUM, A. T., and WESTRE, K. Experiments with mold inhibitors in cheese. (In Norwegian.) Meieriposten 40:145-148. (To be cont.) Mar.3,1951. 44.8 M47  
47316 BLANCHARD, C. A., JR. Milk plants. In American Society of Refrigerating Engineers. Refrigerat- ing data book, ed.3,p.309-316. New York,1951. 295.9 Am32Ref  
Refrigeration.  
47317 CALBERT, H. E. Residual effects of chemical sanitizers. Milk Dealer 40(6):43-44,78-81. Mar.1951. 44.8 M595  
47318 CARPENTER, J. Modern wholesale ice cream manufacture. V. Biscuit Maker & Plant Baker 2:57-59. Feb.1951. 389.8 B54  
47319 CORASH, P. Milk plant equipment and sanitation. J. Milk & Food Technol. 14:35-36. Jan./Feb.1951. 44.8 J824



- 47320 DECKER, C. W. Choix de formules de chocolat. Québec Lait. 10(2):24-25. Feb.1951. 44.8 Q3  
For ice cream manufacture.
- 47321 DIBBERN. Aktuelle milch- und käsefragen. (Sum.) Angew. Chem. 63:99. Feb.21,1951. 384 Z33 Processing.
- 47322 DRUSENDAHL, L. G. The use of corn syrups and corn syrup solids in ice cream. Ice Cream Trade J. 47(3):44-45,86,88,90-92. Mar.1951. 389.8 Ic2
- 47323 DVOROVITZ, V., CROCKER, C. K., and GALLOWAY, S. Studies with sanitizers based on quaternary ammonium salts. J. Milk & Food Technol. 14:18-22. Ref. Jan./Feb.1951. 44.8 J824
- 47324 ELLIKER, P. R. The problem of bacteriophage in the dairy industry. J. Milk & Food Technol. 14:13-16, 44. Ref. Jan./Feb.1951. 44.8 J824
- 47325 EVAPORATED MILK ASSOCIATION AND INDUSTRY. 1950 annual report. n.p.,1951. 28 p. 44.9 Ev1A
- 47326 FLEISCHMAN, F. F., JR., HOLLAND, R. F., and WHITE, J. C. Application of glass pipe to the present day fluid milk industry. Milk Dealer 40(6):45,81-84,86,88. Mar.1951. 44.8 M595
- 47327 FRIGERIO, J. C. Elaboración casera de queso de postre. Pampa Argentina 24(278):10,44. Jan./Feb. 1951. 9 P19
- 47328 GOODWILLIE, D. B. The concentrated milk industry. Agr. Inst. Rev. 6(2):47-49. Mar.1951. 7 Ag8 Condensed and evaporated milk.
- 47329 GRAFFER, R. Mechanization and electrification in mountain pastures. (In Italian.) Almanacco Agr. (1951)62:103-106. 1950. 16 AL6  
For cheese manufacture.
- 47330 HANSEN, R. A coagulating machine with mechanical tapping of the cheese mass. (In Danish.) Nordisk Mejeri-Tidsskr. 17:3-6. 1951. 44.8 N752
- 47331 HATCHONDO, J. S. Elaboración de la manteca en la chacra. Uruguay. Min. de Ganad. y Agr. B. Inform. 7(360):13. Feb.22,1951. 9.9 G15B
- 47332 HIGGINBOTTOM, C. The can immersion and surface-cooling of milk on the farm. Dairy Indust. 16:241-249. Mar.1951. 44.8 D1427
- 47333 HOOD, E. G. Canadian dairy research. Agr. Inst. Rev. 6(2):63-65. Mar.1951. 7 Ag8
- 47334 HOSTETTLER, H. Die wissenschaftliche forschung an der Eidg. Milchwirtschaftlichen und Bakteriologischen Anstalt Liebefeld im verlaufe der letzten drei jahre. 2. Schweiz. Zentbl. f. Milchwirt. 40:37. Ref. Feb.16,1951. 44.8 Sch93
- 47335 ILLINOIS DAIRY PRODUCTS ASSOCIATION. The Illinois dairy supply handbook, 1951. Chicago, 1951. 56 p. 225 IL68
- 47336 JACOBSEN, D. H. Controlled cleaning. Ice Cream Field 57(3):28,103. Mar.1951. 389.8 Ic23  
Ice cream plants.
- 47337 JØRGENSEN, A. On souring difficulties with special reference to the effect of penicillin-containing milk. (In Danish.) Nord. Vetmed. 3:203-246. Mar.1951. 41.8 N813  
English summary.
- 47338 KIEFERLE, F. Die färbung der butter über die milchkuh. Fette u. Seifen 53:76-80. Feb.1951. 384 C422
- 47339 KING, N. Continuous butter production. Food Mfr. 26:105-110. Mar.1,1951. 389.8 F736
- 47340 KOSIKOWSKY, F. V. The liberation of free amino acids in raw and pasteurized milk Cheddar cheese during ripening. J. Dairy Sci. 34:235-241. Mar.1951. 44.8 J822
- 47341 LAWHORN, R. K. Faster mix handling. Ice Cream Field 57(3):56,105. Mar.1951. 389.8 Ic23
- 47342 LOPES, C. F. Observations on factors of failure and recontamination of pasteurized milk. (In Portuguese.) B. de Indús. Anim. (n.s.)11:145-161. Ref. June 1950. 49 R324  
English summary.
- 47343 MCGLASSON, E. D., and BOYD, J. C. Improved methods in the recovery of lactose using ion exchange resins. J. Dairy Sci. 34:119-123. Feb.1951. 44.8 J822
- 47344 MALKAMES, J. P., JR., WALTER, H. E., and SAGER, O. S. Enzymatic hydrolysis of whey protein for use in foods. U. S. Bur. Dairy Indus. BDI-Inf-118,4 p. Mar.1951. 1.973 D4B34
- 47345 MATALLANA VENTURA, S. Tipificación de la maquinaria lechera. Rev. Indus. y Fabríl 5:646-648. Nov. 1950. 297.8 R322
- 47346 MILLER, D. D., and ELLIKER, P. R. Effect of quaternary ammonium compounds on activity of lactic acid starter bacteria in milk and cheese. J. Dairy Sci. 34:279-286. Ref. Mar.1951. 44.8 J822
- 47347 MINSTER, C. H. Ice cream problems. Ice Cream Field 57(3):22,93-96. Mar.1951. 389.8 Ic23  
Manufacture and selling.  
Also in Ice Cream Trade J. 47(3):72-73,96-97. Mar. 1951. 389.8 Ic2
- 47348 MORRIS, H. A., COMBS, W. B., and COULTER, S. T. The relation of surface growth to the ripening of Minnesota blue cheese. J. Dairy Sci. 34:209-218. Ref. Mar.1951. 44.8 J822
- 47349 MYRICK, N. Equipment outlook is grim. Amer. Milk Rev. 13(4):14,85. Apr.1951. 44.8 Am38
- 47350 PARKER, M. E. Butter manufacture. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3,p.317-328. New York, 1951. 295.9 Am32Ref
- 47351 REMALEY, R. J. Cheese manufacture. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3,p.329-334. New York, 1951. 295.9 Am32Ref
- 47352 REYES, P. Fabricación de la mantequilla. Agr. Costarricense 9:32-38,40-42. (Cont.) Jan.1951. 8 Ag895
- 47353 SCHROEDER, L. J., IACOBELLIS, M., and SMITH, A. H. Heat processing and nutritive value of milk and milk products. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):393-394. Mar.1951. 442.9 F31P
- 47354 SHEPHERD, E. Milk and egg powders; dehydration: effects and problems raised in regard to storage and processing. Ice Cream Indus. 27:267-268. Mar.1951. 389.8 Ic24
- 47355 SMITH, P. I. Plastics in the dairy industries. Dairy Indus. 16:253-255. Mar.1951. 44.8 D1427
- 47356 SOMMER, H. H. Ice cream. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3,p.33-45. New York, 1951. 295.9 Am32Ref
- 47357 STROGYLL, P., GOULD, I. A., and JOHNSON, B. C. Effect of high temperature heat treatment of milk on the ammonia content. J. Dairy Sci. 34:219-223. Mar. 1951. 44.8 J822
- 47358 STRUBLE, E. How the ice cream industry uses frozen fruits. Quick Frozen Foods 13(9):72-73. Apr. 1951. 389.8 Q4
- 47359 STUCKI, F. Der einfluss des ultravioletten liches auf einige in der milch vorkommende pathogene keime. Schweiz. Milchztg. 77:145-146. (Concl.) Ref. Mar.16,1951. 44.8 Sch92
- 47360 TAPP, F. C. Does my mix conform? Ice Cream Indus. 27:255-257. Mar.1951. 389.8 Ic24
- 47361 THORNTON, H. R. The inadequacy of the Canadian dairy research program. Agr. Inst. Rev. 6(2): 67-69. Mar.1951. 7 Ag8
- 47362 TUCKEY, S. L. Problems in the production of cottage cheese. Milk Dealer 40(6):46-47,90-92,94,96-98, 100. Mar.1951. 44.8 M595  
Also in Amer. Milk Rev. 13(4):48,50,52,79. (To be cont.) Apr.1951. 44.8 Am38
- 47363 U. S. BUR. OF DAIRY INDUSTRY. Partial list of references relating to fermented and cultured milks. U. S. Bur. Dairy Indus. BDI-Inf-120,4 p. Mar. 1951. 1.973 D4B34
- 47364 WALTER, H. E., MALKAMES, J. P., JR., and SAGER, O. S. Making a spread from hydrolyzed Swiss-cheese whey protein and cultured cream. U. S. Bur. Dairy Indus. BDI-Inf-119,4 p. Mar.1951. 1.973 D4B34
- 47365 WEBB, B. H. Milk from the deep freeze. Hoard's Dairyman 96:289,312-313. Apr.10,1951. 44.8 H65
- 47366 WIESENDAINGER, H. Praktische winke für den milchlieferanten im zusammenhang mit der qualitätsbezahlung der milch. Schweiz. Zentbl. f. Milchwirt. 40: 57-60. Mar.9,1951. 44.8 Sch93  
Care and handling.
- 47367 WILEY, W. J., and HILLS, G. L. Review of new buttermaking methods. Austral. Dairy Rev. 19(2):15-17. (Cont.) Feb.1,1951. 44.8 Au73
- 47368 WILSON, H. L. Good milk and workmanship produce high quality cheese. Canad. Dairy & Ice Cream J. 30(3):34-36,66,68,76. Mar.1951. 44.8 C162
- 47369 ZEILER, K. Weihenstephans bedeutung für die milchwirtschaft. Süddeut. Vers.- u. Forschanst. f. Milchwirt. Arb. u. Ber. 1:5-23. 1950? 44.9 W42

#### Statistics

- 47370 HURWITZ, N. Dairy production on Natal farms prior to 1940. So. African Dairyman 13:44-50. Feb.1951. 44.8 So822  
Statistics.



47371 U. S. PRODUCTION AND MARKETING ADMIN. Total receipts of milk at New York for year 1950. New York, 1951. 2 p. 1.956 A2T649  
Also reports of receipts of butter, cheese, and cream.

#### FEED AND FORAGE CROPS

47372 ANDERSSON, A. Supply of feed meal, mineral and vitamin feeds as well as certain feed mixtures during the years 1938/39-1949/50. (In Swedish.) Sweden. Stat. Jordbrnämnd. Jordbrekon. Meddel. 13:10-18. Jan. 1951. 257.3 J76

English summary, p. 2.

47373 ARIES, R. S., and COPULSKY, W. Increasing the use of feed molasses, a technico-economic report. New York, Chemonomics, 1950? 52 p. Ref. 389.7 Ar42

47374 ARRUDA, I. The forage problem in time of drought. (In Portuguese.) Lavoura 54:26-27. Nov./Dec. 1950. 9.2 L39

Uruguay.

47375 BRENDSTRUP, S. Bigger forage acreage. (In Danish.) Dansk Landbr. 70:108. Mar. 1, 1951. 280.28 V91

47376 BURTON, R. C. Dealers plan for the spring-time. Grain & Feed J. Consolidated 106(7):25-26. Apr. 11, 1951. 298.8 G762

Feed.

47377 DAY, D. I. Feed store sales and delivery routes. Feedstuffs 23(15):50. Apr. 14, 1951. 286.81 F322

47378 DIETZ, F. "Grünkraft", das neue eiweiss-futtermittel! Die künstliche grünfutter-trocknung bringt mehr und besseres futter. Bauern Ztg. 4(9):4. Mar. 2, 1951. 18 B324

47379 FERGUSON, C. M. The feedman's opportunities to his community. Grain & Feed J. Consolidated 106(6):27, 30. Mar. 28, 1951. 298.8 G762

47380 FREITAS, H. DE. Forage preservation. (In Portuguese.) Selec. Agr. 6(57):57-59. Jan. 1951. 9.2 Se4

47381 GLENNON, W. E. Modern minutemen. Feed Bag 27(2):47, 62. Feb. 1951. 389.78 F32

Price controls and the feed industry.

47382 GRATON, A. Que vous dit l'étiquette d'un sac de moulée? B. des Agr. 47(3):10. Mar. 1951. 7 B872

Feed in Canada.

47383 KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Commercial feeds in Kentucky, 1950, including report on official feed samples analyzed October-December, 1950. Ky. Agr. Expt. Sta. Regulat. B. 88, 52 p. Feb. 1951. 100 K41

47384 KOZ'MENKO, V. We shall develop a stable feed base! (In Russian.) Mfasnafa Indus. SSSR. 21(5):67-71. Sept./Oct. 1950. 50.8 M58

47385 MEMPHIS (TENN.) MERCHANTS EXCHANGE CLEARING ASSOCIATION. Byproduct feeds: estimated use for feed, year beginning October, average 1937-41, annual 1945-50. Memphis, 1950. 2 p. 287 M514B

Statistics.

47386 MOORE, W. S. How a hatchery or dealer might use a "hedge." Hatchery & Feed 25(4):50-52. Apr. 1951. 47.8 H28

47387 POUNDSTONE, B. Know your feed tags; buy no feed that is not registered and tagged with a Kentucky official tag. Ky. Farmer 87(3):4.8. Mar. 1951. 6 F2237

47388 RITTER, E. What the community-minded feed dealer can do; agricultural development programs can benefit your business along with your community. Feedstuffs 23(14):22, 24. Apr. 7, 1951. 286.81 F322

47389 SOUTH DAKOTA. COOPERATIVE CROP AND LIVESTOCK REPORTING SERV. South Dakota hay, 1924-1949. Sioux Falls? 1950. 40 p. 60.1 So83

U. S. Dept. of Agriculture cooperating.

47390 TOBEY, E. R. Commercial feeding stuffs, 1949-50. Maine. Agr. Expt. Sta. Off. Insp. 216, 38 p. July 1950. 100 M28S

47391 U. S. PRODUCTION AND MARKETING ADMIN. Feed and livestock production. Washington, 1951. 4 p. 1.956 A2F322

Situation and outlook.

47392 UPTON, E. W. The development of grass drying in Great Britain. Fert. Feed. Stuffs & Farm Supplies J. 37:161-169, 171-172, 177. Mar. 21, 1951. 57.8 F413

#### FIBERS AND TEXTILES

47393 ABE, K. Japanese mills build on fair play. Cotton Trade J. Internatl. Ed. 31(10):77-78. Mar. 9, 1951. 72.8 C8214I

47394 ALL JAPAN COTTON SPINNERS' ASSOCIATION. Opinions on the Governmental cotton control. (In Japanese.) Mon. Rpt. Jap. Cotton Spinning Indus. 49:2-5. Feb. 1951. 304.9 J27M

47395 ALPHAND, H. France and cotton: a frank appraisal. Cotton Trade J. Internatl. Ed. 31(10):97-98. Mar. 9, 1951. 72.8 C8214I

47396 ANSARI, M. A. A. The situation and outlook for cotton production in the U. P., vis-a-vis partition of the country. Indian Cotton Growing Rev. 4:149-153. July 1950. 72.8 I2P3

47397 ARKHIPOV, M. I. Determining degree of cellulose [fibers] polymerization by the viscosimetric method. (In Russian.) Tekstil'. Promysh. 10(9):16-18. Sept. 1950. 304.8 T23

47398 AUDLEY, R. S. Aspects of twist in cap spinning. Fibres 12:81-82. Mar. 1951. 304.8 F16

47399 BABA, K. Sanshigyo no keizaiteki bunseki [Economic analysis of the silk yarn manufacture]. Tokyo, Nihhon Hyoronsha, 1950. 541 p. 304 B11

47400 BAIER, H. Das bleichen von pflanzenfasern mit natrlumchlorit allgemeines und chemische Grundlagen. Meiland Textilber. 32:141-146. Ref. Feb. 1951. 304.8 T312

English summary.

47401 BAILEY, W. R., and HEDGES, T. R. Economics of mechanical cotton harvesting in the San Joaquin Valley-1949. Giannini Found. Mimeog. Rpt. 111, 48 p. Jan. 1951. 281.9 G34M

Costs and returns, labor, grades, and other economic aspects.

47402 BANK OF NOVA SCOTIA. Textile fibres old and new. Bank Nova Scotia. Mon. Rev. (n.s.) 57, 4 p. Feb./Mar. 1951. 280.9 B223

47403 BATORFFY, W. R. Hungary's cotton in "red." Cotton Trade J. Internatl. Ed. 31(10):137, 196. Mar. 9, 1951. 72.8 C8214I

47404 BIGGAR, J. T. M., and FRASER, S. B. Statistical survey of the Spanish wool textile industry. World Wool Digest 2(3):8-12. Feb. 28, 1951. 304.8 W89

47405 BLAKE, W. R. Two roads ahead. Cotton Gin & Oil Mill Press 52(8):11-12, 22, 65. Apr. 14, 1951. 304.8 C822

Inflation and cotton price ceilings.

47406 BOWER, R. P. Textile industry of Great Britain experienced prosperous year. Foreign Trade 9:590-592. Apr. 14, 1951. 286.8 C162

47407 BRASSEUR, R. Belgium builds on textiles; nation's potential and free enterprise. Cotton Trade J. Internatl. Ed. 31(10):129-130, 136, 217. Mar. 9, 1951. 72.8 C8214I

47408 BULAY-WATSON, D. Voluntary organisations in the wool textile industry. Bradford Textile Soc. J. 1949/50:17-22. 304.9 B72

47409 BYRNES, J. F. Textiles in South Carolina. South. Textile News 7(12):7, 49. Mar. 24, 1951. 304.8 So83

47410 CALDWELL, S. A. G. Current practice in rayon staple spinning. Fibres 12:77-79. Mar. 1951. 304.8 F16

47411 CÁMARA ALGODONERA DEL PERÚ. Peru leans heavily on cotton. Cotton Trade J. Internatl. Ed. 31(10):172-173. Mar. 9, 1951. 72.8 C8214I

47412 CAMERON, J. M. The use of components of variance in preparing schedules for sampling of baled wool. Biometrics 7:83-96. Mar. 1951. 442.8 B5224

47413 CASTRO, R. DE. International cotton panorama (In Portuguese.) Rev. dos Mercados 1(4):7-12. Dec. 1950. 286.8 R328

47414 COLLERETTE, C. H. Arizona expects cotton crop to reach at least 700,000 bales in 1951. Cotton Trade J. 31(16):6B. Apr. 13, 1951. 72.8 C8214

47415 COTTON classing system. Textile Indus. 115(4):147, 149, 151, 153, 155. Apr. 1951. 304.8 C823

47416 COTTON marketing. Amer. Coop. 22:475-490. 1950. 280.29 A n3A

Symposium by J. S. Burgess, Jr., D. W. Brooks, H. V. Van-diver, and J. R. Kennedy; W. W. Fetrov, chairman.

47417 COX, J. W. Technical advances in cotton mills. Cotton Trade J. Internatl. Ed. 31(10):236, 239. Mar. 9, 1951. 72.8 C8214I

47418 CRESPI, G. Textile bulwark in Italy. Cotton Trade J. Internatl. Ed. 31(10):88-90. Mar. 9, 1951. 72.8 C8214I

47419 CROFTS, W. J. Wool carding—ways to control evenness. Textile Indus. 115(4):140-143, 145. Apr. 1951. 304.8 C823

47420 DALAL, T. B. India applies limited controls. Cotton Trade J. Internatl. Ed. 31(10):30-31, 33, 44-45. Mar. 9, 1951. 72.8 C8214I

Cotton marketing.



- 47421 DALAL & CO. Textile industry in South India. Rev. Madras, 1950. 56 p. 304 D153
- 47422 DUCOULOMBIER. Le problème de la laine. Défense Agr. de la Beauce et du Perche 48:78. Feb. 17, 1951. 14 D36  
Program for increasing returns from wool.
- 47423 EL-KILANY, M. A. Research is key to Egypt's cotton. Cotton Trade J. Internatl. Ed. 31(10):61-63. Mar. 9, 1951. 72.8 C82141
- 47424 ELLIOTT, F. C. Texas will do its share. Victory Farm Forum 41:11-12. Mar. 1951. 281.8 F226  
Cotton program.
- 47425 FARTHING, W. Egyptian cotton trades high. Cotton Trade J. Internatl. Ed. 31(10):59, 204-205. Mar. 9, 1951. 72.8 C82141
- 47426 FAWCETT, C. J. Non-recourse loan best plan: "production payment" idea held not suitable for wool growers. Wool Sack 16(5):1, 4. July 1949. 280.28 W88  
For price support.
- 47427 FREDERIKSEN, P. S. Flax experiments and research. (In Danish.) Lin 5:1-12. Ref. Jan./Feb. 1951. 73.18 L63  
English abstract, p. 16.
- 47428 FRÖHLICH, H. G. Die reaktionen des formaldehyds beim härten und stabilisieren von künstlichen proteinfasern. Melland Textilber. 32:136-140. Ref. Feb. 1951. 304.8 T312  
English summary.
- 47429 FUKUMI, K., and others. On the Japanese cotton spinning industry in 1951. (In Japanese.) Mon. Rpt. Jap. Cotton Spinning Indus. 49:44-54. Feb. 1951. 304.9 J27M  
A. Onuki, G. Sakaguchi, and S. Nishijima, T. Murayama, and E. Arita, joint authors.
- 47430 GARDNER, V. R., and MONCADA, F. Un aparato barato para medir la humedad del algodón. Agr. Trop. 7(3):9-14. Mar. 1951. 26 Ag8
- 47431 GERDES, F. L. Group addressed on technology, economics, spinning qualities. Cotton Digest 23(29):9, 36-41. Apr. 7, 1951. 286.82 C822
- 47432 GERDES, F. L. Laboratory-test and field-study information of interest to Alabama ginners. Cotton Gin & Oil Mill Press 52(8):14, 19-20. Apr. 14, 1951. 304.8 C822
- 47433 GILI, M. Tecnologia della maglieria e della calzetteria [Technology of hosiery and stocking manufacture]. v. 1. Milano, Hoepli, 1951. 461 p. 304 G39  
Contains a chapter on textile fibers.
- 47434 GORDON, G. B. Cotton and its competitors. Canad. Textile J. 66(8):35, 37, 53. Apr. 13, 1951. 304.8 C16  
Synthetics.
- 47435 GT. BRIT. COMMONWEALTH ECONOMIC COMMITTEE. INTELLIGENCE BR. World consumption of wool, 1949. London, 1950. 167 p. 286.85 C734
- 47436 GULATI, A. N. Role of some structural features of cotton fibre in nep-formation. Indian Cotton Growing Rev. 4:133-142. July 1950. 72.8 In23
- 47437 HAFEZ AFFI, H. E. Cotton, pivot of Egypt's economic activity. Cotton Trade J. Internatl. Ed. 31(10):72-73. Mar. 9, 1951. 72.8 C82141
- 47438 HALL, A. J. New fibre-staining techniques to determine fibre structure. I. Fibras 12:83-84. Mar. 1951. 304.8 F16
- 47439 HALL, A. J. Use of ultra-sonic vibrations in textile treatment. Textile Mercury & Argus 124:493-494, 499. Mar. 23, 1951. 304.8 T318
- 47440 HARTSUCH, B. E. Textile chemistry in the laboratory. New York, Wiley, 1950. 75 p. 304 H25T  
Includes silk and wool chemistry.
- 47441 HAYDEN, H. Problems of ginners—industry's vital tasks. Cotton Trade J. Internatl. Ed. 31(10):234-235. Mar. 9, 1951. 72.8 C82141
- 47442 HEMBREE, J. F. Farmers aware of inequities of O.P.S. ceilings. Cotton Trade J. 31(13):17. Mar. 23, 1951. 72.8 C8214  
Office of Price Stabilization.
- 47443 HEMBREE, J. F. Spinning tests boost use of Texas cotton. Cotton Trade J. 31(13):17, 19. Mar. 23, 1951. 72.8 C8214
- 47444 HINEGARDNER, O. F. Fibers and supplies for hand spinners. Angora Rabbit Mag. 6(5):5. Mar. 1951. 40.28 An42
- 47445 HOHLS, H. W. Über das spezifische gewicht der Angorawolle. Melland Textilber. 32:99-102. Feb. 1951. 304.8 T312  
English summary.
- 47446 HONEGGER, E. The "Uster" instrument for the stapling of cotton and rayon fibres. Textile Inst. J. 42:P57-P74. Feb. 1951. 73.9 T31
- 47447 HOOVER, R. T., JR. Western States have good prospects for high cotton production in 1951. South. Textile News 7(12):11. Mar. 24, 1951. 304.8 So83
- 47448 HOPKINS, S. V., and FRASER, S. B. The market for wool goods. II: German-speaking Switzerland. World Wool Digest 2(1):11-12. Jan. 31, 1951. 304.8 W89
- 47449 HORNE, M. K., JR. Nature of the cotton crisis. Cotton Insect Control Conf. Proc. 4:2-6. 1950. 423.9 C82
- 47450 HUDSON, J. The coconut oil industry in Ceylon. World Crops 3:107-111. Mar. 1951. 281.8 W892
- 47451 HUNTER, R. S. Automatic cotton colorimeter. Cotton Trade J. Internatl. Ed. 31(10):237. Mar. 9, 1951. 72.8 C82141
- 47452 INOUE, K. Present and past in our cotton industry. IX-X. (In Japanese.) Mon. Rpt. Jap. Cotton Spinning Indus. 49:15-20, 50:26-31. Feb.-Mar. 1951. 304.9 J27M
- 47453 INTERNATIONAL COTTON ADVISORY COMMITTEE. Annual review of the world cotton situation 1950-51. Cotton [Washington] 4(6/7), 21 p. Jan./Feb. 1951. 286.3729 In8C
- 47454 INTERNATIONAL COTTON ADVISORY COMMITTEE. SECRETARIAT. The supply of textile machinery. Washington, 1951. 51 p. (Its Doc. 10 X) 304 In862
- 47455 JACKENDOFF, R. The market for wool goods. III: The United States of America. I-II. World Wool Digest 2(4):10-12; (5):11-12. Mar. 14-28, 1951. 304.8 W89
- 47456 KENYON, W. O. Cellulose chemistry. Indus. & Engin. Chem. 43:820-830. Ref. Apr. 1951. 381 J825
- 47457 KERSHAW, S. Quality in worsted spinning. (Sum.) Textile Mercury & Argus 124:536, 538. Mar. 30, 1951. 304.8 T318
- 47458 KLING, W., and MAHL, H. Zur morphologie der baumwollfaser. I. Melland Textilber. 32:131-136. Feb. 1951. 304.8 T312  
English summary.
- 47459 KRONAUER, F. Determination of the characteristics of cotton fiber according to the most recent laboratory methods. (In Italian.) Ist. Coton. Ital. Not. dell'Indus. Tessile Coton. 5:222-224. Mar. 1951. 286.3729 Is7N
- 47460 LAUER, K., and PAUER, O. Zur kenntnis der zellulosefasern. 12-13. Kolloid-Z. 119:151-156. Ref. Dec. 1950. 384 Z315
- 47461 LEZHEBRUKH, G. O. Ways of decreasing the number of crossings in [wool] spinning. (In Russian.) Tekstil'. Promysh. 10(9):22-24. Sept. 1950. 304.8 T23
- 47462 LOMBARDI, R. The Italian textile industry. (In Italian.) Laniera 64:895, 897, 899, 901, 903, 905, 907, 909, 911, 913, 915, 917, 919, 921, 923, 925. Dec. 1950. 45.8 B63
- 47463 LONGORIA, A. F. Mexico—land of promise. Cotton Trade J. Internatl. Ed. 31(10):161, 163, 220-221. Mar. 9, 1951. 72.8 C82141  
Cotton industry.
- 47464 LUNA ERCILLA, C. A. Las cabuyas; importancia economica de estas textiles y otras fibras duras de América. Bolsa de Com., Rosario. Rev. 39(936):15-18, 20-22, 24-25. Ref. Jan. 15, 1951. 287 R71  
Latin America.
- 47465 LUNA ERCILLA, C. A. Las fibras textiles y el potencial industrial del país. Pampa Argentina 24(278):3, 17. Jan./Feb. 1951. 9 P19
- 47466 LUND, R. G. Wool's battle of the gap. Textile Mercury & Argus 61(sup.):53-54. Mar. 1951. 304.8 T318
- 47467 MCASHAN, S. M., JR. Urges trade to aid in producing big crop for this year. Cotton Digest 23(27):14-15. Mar. 24, 1951. 286.82 C822
- 47468 MCCANN, J. J. Yarn production by the pot spinning system. (Excerpts.) Textile Age 15(4):42-46. Apr. 1951. 304.8 T3132
- 47469 MACMILLAN, W. G., MUKHERJEE, R. R., and RAMASWAMY, M. A review of methods for the evaluation of regain in jute. II. Commercial methods. Fibras 12:94-107. Mar. 1951. 304.8 F16
- 47470 MANI, R. S. Tried and found wanting, Indian cotton controls a farce. Cotton Trade J. Internatl. Ed. 31(10):38, 225. Mar. 9, 1951. 72.8 C82141  
Marketing.
- 47471 MEADOWS, B. Trends in the consumption of fibers in the United States, 1892-1948. U. S. D. A. Statis. B. 89, 79 p. Dec. 1950. 1 Ag84St
- 47472 MERKEL, C. M. Effects of ginning practices on cotton quality. Cotton Gin & Oil Mill Press 52(8):54-55, 58, 60-61. Apr. 14, 1951. 304.8 C822
- 47473 MONCRIEFF, R. W. Artificial fibres. New York, Wiley, 1950. 313 p. 304 M743
- 47474 MONCRIEFF, R. W. The mechanics of wool felting. Textile Mfr. 77(915):105-110, 117. (To be cont.) Mar. 1951. 304.8 T3126



- 47475 MONFORT, F. The determination of the nep count in tops. *Textile Inst. J.* 42:P81-P85. Feb.1951. 73.9 T31  
Wool.
- 47476 MONFORT, F., and NEIRYNCK, T. Methods of counting the numbers of fibres in yarn cross-sections. *Textile Inst. J.* 42:P75-P80. Feb.1951. 73.9 T31
- 47477 MOORE, A. S. The Irish linen industry; devaluation a fillip to export trade. *Textile Mercury & Argus* 61(sup.):115,117. Mar.1951. 304.8 T318
- 47478 MOORE, P. E. Futures market essential. *Cotton Trade J. Internatl. Ed.* 31(10):218-219. Mar.9, 1951. 72.8 C82141  
Cotton.
- 47479 MORENO, J. J. La lana y su comercio. *Soc. Rur. Argentina. An.* 84(10):34-41. Oct.1950. 9 S01
- 47480 MORISON, S. E. The ropemakers of Plymouth; a history of the Plymouth Cordage Company, 1824-1949. Boston, Houghton Mifflin, 1950. 177 p. 304.9 P74
- 47481 MOSCOSO MORALES, A. El ramio, algunas consideraciones sobre su aprovechamiento en España. *Agricultura [Madrid]* 20:54-59. Feb.1951. 15 Ag84  
Processing.
- 47482 NEVELL, T. P. The oxidation of cotton cellulose by nitrogen dioxide. *Brit. Cotton Indus. Res. Assoc. Shirley Inst. Mem.* 24:147-185. Ref. Nov.1950. 72.9 B773
- 47483 NEVELL, T. P. A qualitative X-ray study of the oxidation of cotton cellulose by nitrogen dioxide. *Brit. Cotton Indus. Res. Assoc. Shirley Inst. Mem.* 24:187-197. Ref. Nov.1950. 72.9 B773
- 47484 OSMAN BEY ABAZA, H. E. Cotton is Egypt—Egypt is cotton. *Cotton Trade J. Internatl. Ed.* 31(10):60, 73. Mar.9, 1951. 72.8 C82141
- 47485 PFRANG, H. Wie steht es mit dem flachsbau? *Bad. Landwirt. Wchnbl.* 118:143. Mar.3, 1951. 18 B142
- 47486 PHILIP, B., and LAGERMALM, G. A contribution to the knowledge of the surface structure of wool. *Conf. Electron Micros. Proc.* 1949:166-169. Ref. 1950. 440.9 C76
- 47487 PIRZADA, A. S. Inauguration of Central Jute Committee. *Karachi Com.* 4(4):5-7. Jan.27, 1951. 280.8 K14  
Jute situation.
- 47488 PLATOVA, A. D. Determining the length of fibers by the method of staple cutting. (In Russian.) *Tekstil'. Promysh.* 10(9):24-26. Sept.1950. 304.8 T23
- 47489 PONTING, K. G. The wool trade and the West of England. *Bradford Textile Soc. J.* 1949/50:83-90. 304.9 B72
- 47490 PORSCHKE, G. Verbesserte speisung und vorauflösung bei der baumwollkarde. *Textil-Praxis* 6:160-161. Mar.1951. 304.8 T3143
- 47491 PRESTON, J. M., NIMKAR, M. V., and GUNDAVA, S. P. Capillary and imbibed water in assemblies of moist fibres. *Textile Inst. J.* 42:T79-T90. Ref. Feb. 1951. 73.9 T31
- 47492 PRODUCE goes to market; Nigeria: cotton. *United Africa Co. Statist. & Econ. Rev.* 7:16-47. Mar.1951. 280.9 Un372
- 47493 PUIG, J. B. Son o no necesarios los cuartos de mezcla de algodón? *Textiles Panamer.* 11(4):33-35,81. Apr.1951. 304.8 T3142
- 47494 QUIG, J. B. New fibers leaven the textile industry. *Cotton Trade J. Internatl. Ed.* 31(10):178-180. Mar.9, 1951. 72.8 C82141
- 47495 REYNOLDS, E. D. Cotton growing in the Empire. *Textile Mercury & Argus* 61(sup.):62. Mar.1951. 304.8 T318
- 47496 REZENDE, J., and DANTAS, J. G. Artificial light in the commercial classification of cotton. (In Portuguese.) *Rev. dos Mercados* 1(4):63-67. Dec.1950. 286.8 R328
- 47497 RIBI, E. Über den feinbau der viscoseseide. *Arkiv f. Kemi* 2:551-566. 1951. 395 Ar4
- 47498 RISO, R. Considerations in the field of cotton spinning. (In Italian.) *Ist. Coton. Ital. Not. dell'Indus. Tessile Coton.* 5:219-221. Mar.1951. 286.3729 Is7N
- 47499 RISO, R. Textile control and analysis in cotton spinning. (In Italian.) *Ist. Coton. Ital. Not. dell'Indus. Tessile Coton.* 5:137-140. Feb.1951. 286.3729 Is7N
- 47500 RUIA, M. R. Political expediency means stagnation; India's cotton economy suffers from experiments. *Cotton Trade J. Internatl. Ed.* 31(10):43-44. Mar.9, 1951. 72.8 C82141
- 47501 SAXL, V. Short-wool top making requires special care. *Textile World* 101(4):104-105,262,264,266, 268. Apr.1951. 304.8 T315  
Various types of wool processing.
- 47502 SCHIEFER, H. F. Textile forschung und prüfung am National Bureau of Standards Washington. *Mel-land Textilber.* 32:125-126. (To be cont.) Feb.1951. 304.8 T312  
English summary.
- 47503 SHAW, J. H. British wools. *Bradford Textile Soc. J.* 1949/50:23-29. 304.9 B72  
Includes discussion.
- 47504 SHAW, J. H. Wool problems and policies. *Textile Mercury & Argus* 61(sup.):91,93. Mar.1951. 304.8 T318
- 47505 SHELLABY, R. K. Cotton benefits as agriculture is stressed; Argentine economy strengthened. *Cotton Trade J. Internatl. Ed.* 31(10):170-171. Mar.9, 1951. 72.8 C82141
- 47506 SIGNER, R., and GLANZMANN, R. Über die polydispersität von seidenfibroin. *Makromolekulare Chem.* 5:257-261. Feb.1951. 384 M28  
English summary.
- 47507 SMITH, E. V. Prospects for Alabama's 1951 cotton crop. *Victory Farm Forum* 41:5-6. Mar.1951. 281.8 F226
- 47508 SOBOLEV, S. V. To improve the technology of jute and kenaf processing. (In Russian.) *Tekstil'. Promysh.* 10(9):15-16. Sept.1950. 304.8 T23
- 47509 SOUZA, R. L. P. DE. Brazilian cotton struggles uphill. *Cotton Trade J. Internatl. Ed.* 31(10):166. Mar.9, 1951. 72.8 C82141
- 47510 SPENCER, J. E. Abaca and the Philippines. *Econ. Geog.* 27:95-106. Apr.1951. 278.8 Ec7
- 47511 TALATI, J. H. Vital problems of production unsolved. *Cotton Trade J. Internatl. Ed.* 31(10):39-40. Mar.9, 1951. 72.8 C82141  
Indian cotton.
- 47512 TALEPOROVSKII, A. M. Resistances which are overcome by the rove in the flyer. (In Russian.) *Tekstil'. Promysh.* 10(9):19-21. Sept.1950. 304.8 T23
- 47513 TEXTILE MERCURY. The "Mercury" dictionary of textile terms. Manchester, Eng., 1950? 524 p. 304 T3125
- 47514 THOMASON, W. A., JR. Cotton research points to road ahead. *Textile World* 101(4):108-109,268. Apr. 1951. 304.8 T315
- 47515 TOWNEND, P. P. Unknown research. 3. Finess of wool fibres. *Wool Rev.* 23(359):31. Mar.1951. 45.8 W886
- 47516 U. S. CONGRESS. JOINT COMMITTEE ON DEFENSE PRODUCTION. Defense Production Act; progress report—No. 5—cotton controls; hearing, 82d Cong., 1st sess., to hear Secretary Charles F. Brannan, Department of Agriculture, and Director Michael V. DiSalle, Office of Price Stabilization, on cotton controls, March 8, 1951. Washington, 1951. p. 129-228.
- 47517 U. S. EXTENSION SERV. Who's to blame for rayon's bad name? Notes from a series of articles on rayon, by A. Linn. Washington, 1951. 5 p. 1.913 A2W623
- 47518 U. S. PRODUCTION AND MARKETING ADMIN. Cotton linters: estimated production and value, by types of cut and by grades, season 1949/50. Washington, 1950. 1 p. 1.956 C82C8224
- 47519 U. S. PRODUCTION AND MARKETING ADMIN. Domestic mohair: monthly average prices on the open market at Boston, 1950. Washington, 1951. 1 p. 1.956 L75D715
- 47520 U. S. PRODUCTION AND MARKETING ADMIN. Domestic wool: monthly average prices on the open market at Boston, 1950. Washington, 1951. 1 p. 1.9422 L8D71Bg
- 47521 U. S. PRODUCTION AND MARKETING ADMIN. Fiber and spinning test results for some cotton varieties grown by selected cotton improvement groups, crop of 1950. Washington, 1950. 7 p. 1.9422 C8R3  
Also supplement No. 1, issued October 1950; No. 2, issued November 1950.
- 47522 U. S. PRODUCTION AND MARKETING ADMIN. Important facts concerning materials and facilities for cotton production in 1951; fertilizer, insecticides, farm machinery, planting seed, labor. Washington, 1950? 18 p. 1.956 A2Im73
- 47523 VAL'KO, N., and ANTYKOV, A. Urgent problems of Soviet kenaf culture. (In Russian.) *Sotsialist. Sel'sk. Khoz.* 21(10):42-50. Oct.1950. 281.8 So73
- 47524 VEREENIGING VOOR DEN KATOENHANDEL. Annual report 1949-1950. Rotterdam, 1950. 20 p. 287 R74R
- 47525 VICKERS, A. Quality control in worsted spinning. *Bradford Textile Soc. J.* 1949/50:59-63. 304.9 B72  
Includes discussion.



- 47526 VILJOEN, D. T. DU P. A new wool factory for South Africa; commission combing plant will also provide facilities to recover and refine by-products. Farmer's Wk. [Bloemfontein] 80:51. Mar.7,1951. 24 F225
- 47527 WESTBROOK, E. C. What farmers are talking about in Sugar Hill. Victory Farm Forum 41:6-7. Mar. 1951. 281.8 F226
- Cotton culture and outlook.

## FRUITS, VEGETABLES, AND NUTS

- 47528 BERTHAULT, P. La récolte des vins algériens de 1950 et son écoulement. Rev. Agr. de l'Afrique du Nord 49:41-44. Jan.19,1951. 80 R326
- 47529 BOHM, F. Gedanken zur fortentwicklung des deutschen kartoffelbaues. Neue Mitt. f. die Landwirt. 6: 85-87. Feb.10,1951. 18 N39
- 47530 BOUQUET, A. G. B. Development of vegetable crops production in Oregon. West. Grower & Shipper 22(4):22,24,46. Mar.1951. 280.38 W52
- 47531 BROWN, H. D. Southern vegetable growers busy with weather, labor, water problems; frigid spells take toll of tender greens; vegetable acreage remains same for 10 years; South needs a winter crop—that will remain green and growing through the mild winters. Mkt. Growers J. 80(3):14,50-51. Mar.1951. 6 M34
- 47532 CALVI VARGAS, F. La fruticultura en el país. Campo [La Paz] 5(45):58-61. Jan.1951. 9.1 C15
- Bolivia.
- 47533 CAVIA, C. E. El abastecimiento nacional de semilla de papa. Bolsa de Com., Rosario. Rev. 39(938): 11-13. Feb.15,1951. 287 R71
- 47534 DOLVEN, A. The breakdown in carrot production. (In Norwegian.) Gartneryrket 41:7. Jan.6,1951. 80 G1938
- Norway.
- 47535 DWYER, M. Yes, we have bananas! New Orleans Port Rec. 9(6):8-10. Feb.1951. 286.8 N472
- The industry.
- 47536 ENGLE, N. H., and BURD, H. A. Washington grapes and grape juice—an economic appraisal. West. Canner & Packer 43(4):24-30. Apr.1951. 286.83 W522
- 47537 ESPY, S. Cling season successful: over-all "good" feeling sums up the peach deal. West. Fruit Grower 4(10):24. Oct.1950. 95.8 G762
- 47538 FERLENIUS, G. R. The development of large scale fruit growing in Kristianstad Province. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:292-301. 86 Sv2
- 47539 FERRAGUTI, M. The Pillars of Hercules of fruit culture: the 42d parallel. (In Italian.) Glor. di Agr. 61:83. Mar.18,1951. 16 IIG
- 47540 FRENCH, E. R. Fundamental objectives. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:253-260. 81 V52
- Vegetable industry.
- 47541 FULLER, H. 1951 spring lettuce deal; Salt River Valley, Arizona. West. Grower & Shipper 22(5):11-12,17. Apr.1951. 280.38 W52
- 47542 GEORGES, L. Le commerce des agrumes algériennes. Voix des Colons 33(1598):3. Mar.5,1951. 24 V85
- 47543 JENKINS, F. 1951 spring lettuce deal; Salinas Valley, California. West. Grower & Shipper 22(5):10,12. Apr.1951. 280.38 W52
- 47544 KARSUNKY-SUNDERN, H. Im Sauerland weniger kartoffeln anbauen? Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:397-398. Mar.15,1951. 18 L2346
- 47545 KOCH, A. Aussichten für den gemüsebau in Weser-Ems. Landwirtbl. Weser-Ems 98:119-120. Feb.8,1951. 18 L2345
- 47546 LE ROUX, P. Case of Western Province citrus farmers. (In Afrikaans.) Landbouweekblad 32(1646):19-20. Jan.31,1951. 24 L232
- 47547 MARTIN, F. Le manioc dans la France d'Ouest. Rev. Internat. des Prod. Colon. 26:45-47. (To be cont.) Feb.1951. 286.8 R326
- The industry.
- 47548 MATT, J. Badischer obstbau am scheldeweg! Bauern Ztg. 4(7):1-2. Feb.16,1951. 18 B324
- 47549 MONCADE, G. L'avenir des agrumes en Afrique du Nord. Voix des Colons 33(1597):1-2. Feb.26,1951. 24 V85
- 47550 POSTAL, D. The viticultural situation in Trentino. (In Italian.) Almanacco Agr. (1951)62:141-148. 1950. 16 AL6
- 47551 REILEY, H. A. National potato issues. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:187-193. 81 V52

- 47552 ROSE, D. H., COOK, H. T., and REDIT, W. H. Harvesting, handling, and transportation of citrus fruits; a digest of information on the subject published mostly from 1938 to 1948. U. S. D. A. Bibliog. B. 13,178 p. Ref. Jan.1951. 1 Ag84B1
- 47553 SCHREIBER, W. R. The Amazon Basin Brazil nut industry. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 49, slightly rev. 53 p. Mar.1951. 1.943 F763
- 47554 SCHREIBER, W. R. World raisin production below average. Calif. Fruit News 126(3273):4-5. Mar.31, 1951. 80 C12
- 47555 SILVEIRA, A. H. DA. Indústria do pêssego, figo, jaboticaba e pitanga [The peach, fig, jaboticaba and pitanga industry]. Vamos para o Campo 59,12 p. 1950. 9.2 V25
- 47556 SJETNE. The carrot production in 1950. (In Norwegian.) Gartneryrket 41:39. Jan.20,1951. 80 G1938
- Norway.
- 47557 SKARD, O. Horticulture in Norwegian industry and the farm economy. (In Norwegian.) Norsk Landbr. 17:112-114. Mar.16,1951. 11 N8122
- 47558 SVERIGES POMOLOGISKA FORENING. Annual report 1949. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:366-376. 86 Sv2
- 47559 SVERIGES POMOLOGISKA FORENING. The fruit crop of the jubilee year. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:320-329. 86 Sv2
- Fruit industry in Sweden.
- 47560 TRIP, J. On turnips, lemons, and potatoes. (In Dutch.) Friesch Landtbl. 48:106. Feb.16,1951. 12 F91
- 47561 TUKEY, H. B. The outlook for fruit growers. Rur. New-Yorker 101:162. Mar.3,1951. 6 R88
- 47562 WHITNEY, D. J. Walnut growers hear a cheering report. Calif. Farmer, North. Ed. 194:286. Mar.24, 1951. 6 C126
- Situation of the industry in California.

## Analysis and Composition

- 47563 ALMEIDA, J. R. DE. Chemical composition of the mango. (In Portuguese.) Arq. Bras. de Nutr. 7:243-254. July/Aug.1950. 389.8 Ar6
- English summary.
- 47564 AXELROD, B., BANDURSKI, R. S., and SALTMAN, P. Phosphate uptake by pea meal extracts. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1). 158-159. Mar.1951. 442.9 F31P
- 47565 BISSETT, O. W. A method for estimating soluble solids in dried citrus pulp. Citrus Indus. 32(4):12-13. 16-17. Apr.1951. 80 C49
- 47566 CAIN, R. F. Influence of storage time and temperature on the tenderometer reading, drained weight, free starch and color index of southern peas. Canner 112(14):11-12. Apr.7,1951. 286.83 C16
- 47567 CARTER, C. L. The constitution of karakin. J. Sci. Food & Agr. 2:54-55. Feb.1951. 382 So12
- From *Corynocarpus laevigata*.
- 47568 CULLER, D., and BROWN, H. D. An attempt to simplify the mold counting techniques used for tomato products. Amer. Soc. Hort. Sci. Proc. 56:327-331. Dec.1950. 81 So12
- 47569 ERBRING, H., and CORCILIUS, F. Messungen der enzymatischen aktivität am milchsäure der Carica papaya. Deut. Apoth.-Ztg. 91:91-93. Feb.9,1951. 396.8 Su2
- 47570 GOULD, W. A. New snap beans analyzed. Food Packer 32(4):26-27. Apr.1951. 286.83 C165
- 47571 HALL, C. B., MARSHALL, A., and HARTMAN, J. Studies on the volatile constituents of peas and asparagus. Amer. Soc. Hort. Sci. Proc. 56:315-319. Dec.1950. 81 So12
- 47572 HILLENBRAND, E. F., JR., SUTHERLAND, W. W., and HOGSETT, J. N. Determination of residual glyoxalidine fungicides on apples and cherries. Analyt. Chem. 23:626-629. Apr.1951. 381 J825A
- 47573 SITES, J. W., and REITZ, H. J. The variation in individual Valencia oranges from different locations on the tree as a guide to sampling methods and spot-picking for quality. III. Vitamin C and juice content of the fruit. Amer. Soc. Hort. Sci. Proc. 56:103-110. Dec.1950. 81 So12
- 47574 SWIFT, L. J., and VELDHUIS, M. K. Constitution of the juice lipids of the Florida Valencia orange (*Citrus sinensis* L.). Food Res. 16:142-146. Mar./Apr. 1951. 389.8 F7322
- 47575 VOLGUNOV, G. P. Weakening of oxidizing processes in plant products during drying and storage. (In Russian.) Biokhimiia 15:552-557. Nov./Dec.1950. 385 B523
- Experiments with tobacco leaves and potato sprouts.



47576 ZÁVADA, J. A contribution to the ascertainment of maturity of vegetables periodically harvested. (In Czech.) Českoslov. Akad. Zeměděl. Sborn. 23:193-198. 1950. 19.5 C332C  
English summary.

#### Consumption and Utilization

47577 BRADY, M. A. What the consumer wants—what she gets. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:196-198. 81 V52  
47578 HONIG, H. Die vielseitige topinambur. Neue Mitt. f. die Landwirt. 6:180-181. Mar.24,1951. 18 N39 Uses.  
47579 IGNATIUS, J. G. W., and WIT, W. DE. Fruit and vegetable consumption in the Netherlands. Food & Agr. 3:210-213. Oct./Dec.1950. 389.8 F7326  
47580 JÖRISSEN. Wird das kartoffelkraut zum industriellen rohstoff? Neue Mitt. f. die Landwirt. 6:55-56. Jan.27,1951. 18 N39  
47581 U. S. BUR. OF AGRICULTURAL ECONOMICS. Consumer fruit and juice purchases, Oct.-Dec.1950, by regions and type of retail outlet. Washington,1951. 57 p. 1.941 M3R26  
U. S. Production and Marketing Administration cooperating.  
47582 VON LOESECKE, H. W. Citrus cannery waste, its use and disposition. Natl. Farm Chemurg. Council. Chemurg. Papers 1951(2),20 p. Ref. 381 N2132

#### Distribution, Marketing, and Transportation

47583 BEMIS, K. P. Potato promotional activities. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:265-271. 81 V52  
47584 BERTAUX, G. La commercialisation des fruits et légumes aux Etats-Unis. Crémérie Franç. 192:23-24. Feb.15,1951. 44.8 C867  
47585 FULLER, V. Marketing California dates; variable supply and quality, thin but widespread demand create problems to be overcome by orderly marketing. Calif. Agr. [Calif. Sta.] 3(4):2. Apr.1951. 100 C12Cag  
47586 GARDNER, K. B., and MCKAY, A. W. The California Fruit Growers Exchange system. U. S. Farm Credit Admin. C. C-135,124 p. Ref. May 1950. 166.2 C4923  
Revision of U. S. Farm Credit Administration Circular C-121.  
47587 GLASS, J. L. Icing sweet corn in Ohio. (Condensed.) Refrigeration 93(7):3,5. Mar.26,1951. 295.8 Ic23  
Includes study of marketing and marketing costs.  
47588 GOODRICH, H. "Whodunit." West. Grower & Shipper 22(5):23-24. Apr.1951. 280.38 W52  
Lettuce market situation.  
47589 GUERIN, B. C. DE. How Guernsey's system works. Fruit-Grower 2884:625-626. Apr.5,1951. 30 F941  
Tomato marketing.  
47590 HEITMANN, W. Zur spelsekartoffelverladung. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:282. Feb. 22,1951. 18 L2346  
47591 HINKLE, W. B. The relative importance of the fruit and vegetable department in retail food stores. N. Y. Agr. Col. Farm Econ. 178:4631-4633. Feb.1951. 280.8 C812  
47592 KELLEY, J. N. What about those new reefers? (Sum.) Fruit & Veg. Rev. 13:11. Apr.1951. 80 C1224  
47593 KEMPEL, A. Observations on marketing of Swedish fruit. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:275-280. 88 Sv2  
47594 NEWTON, J. T. Potato marketing: a policy for the Government. Fruit, Flower & Veg. Trades' J. 98(26):23. Dec.23,1950. 80 F946  
Great Britain.  
47595 PIPER, W. E. \$14 million Boston-market would speed vegetable distribution throughout New England. Mkt. Growers J. 80(3):16,34. Mar.1951. 6 M34  
47596 TAYLOR, P. R. Fresh fruits and vegetables are big business. In Sayres, P., ed. Food marketing, p.253-268. New York, McGraw-Hill, 1950. 286.2 Sa9  
47597 U. S. PRODUCTION AND MARKETING ADMIN. Deterioration of Long Island potatoes in marketing channels. Washington, 1950. 16 p. 1.956 F94D48  
New York (Cornell) Agricultural Experiment Station cooperating.  
47598 VAN WAES, D. A. The effect of bruising on retail sales of apples. N. Y. Agr. Col. Farm Econ. 179: 4660-4661. Mar.1951. 280.8 C812

47599 WESTBERG, F. Busy year for soft fruit commission. West. Fruit Grower 4(10):19. Oct.1950. 95.8 G762  
Washington State Fruit Commission.

#### Grading, Inspection, Standardization, and Quality

47600 BAKER, M. W. United States Department of Agriculture Production and Marketing Administration: the utilization of Federal grades in vegetable marketing. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:260-265. 81 V52  
47601 BOUCHARD, R. J. A., and PERRY, A. L. The development of external defects in Maine potatoes at retail stores in Boston, Massachusetts, February and March 1950. Maine. Agr. Expt. Sta. B. 486,24 p. Nov.1950. 100 M28S  
U. S. Bureau of Agricultural Economics and U. S. Production and Marketing Administration cooperating.  
47602 CATHCART, W. H. Fruit standards too lenient for pie bakers. Food Packer 32(4):28-29. Apr.1951. 286.83 C165  
47603 CONNECTICUT. DEPT. OF FARMS AND MARKETS. MARKETING DIV. Connecticut standard grades for potatoes; potato cultiv. Conn. Dept. Farms & Mkt. B. 113,11 p. Jan.1950. 2 C76B  
47604 GILPIN, G. L., HAMMERLE, O. A., and HARKIN, A. M. Palatability of home-canned tomatoes. J. Home Econ. 43:282-284. Apr.1951. 321.8 J82  
47605 GOULD, W. A., and others. Flavor evaluations of canned fruits and vegetables treated with newer organic insecticides. Food Technol. 5:129-133. Apr.1951. 389.8 F7398  
J. P. Slesman, R. W. Rings, M. Lynn, F. Krantz, Jr., and H. D. Brown, joint authors.  
47606 GREENWOOD, M. L., POTGIETER, M., and BLISS, C. I. The effect of certain prefreezing treatments on the quality of eight varieties of cultivated highbush blueberries. Food Res. 16:154-160. Mar./Apr.1951. 389.8 F7322  
47607 GUYER, R. B., KRAMER, A., and IDE, L. E. Factors affecting yield and quality measurements of raw and canned green and wax beans. A preliminary report. Amer. Soc. Hort. Sci. Proc. 56:303-314. Ref. Dec.1950. 81 So12  
47608 HALL, E. G., and LONG, J. K. Citrus wastage investigations at the Gosford Citrus Processing Research Laboratory. Food Preserv. Q. 10:48-54. Sept.1950. 389.9 Au7F  
Spoilage and injuries.  
47609 KEFFORD, J. F., MCKENZIE, H. A., and THOMPSON, P. C. O. The effect of oxygen on flavour deterioration and loss of ascorbic acid in canned orange juice. Food Preserv. Q. 10:44-47. Ref. Sept.1950. 389.9 Au7F  
47610 MITCHELL, R. S., and LYNCH, L. J. Crop maturity in relation to quality of canned cream style sweet corn. Austral. J. Agr. Res. 2:43-59. Ref. Jan. 1951. 23 Au783  
47611 NOLING, A. W. Cloudy beverages, what they are and how to handle them. Food Indus. 3(10):87,89. Feb.1951. 389.8 F7372  
Fruit juices.  
47612 RUDOLFS, W., FALK, L. L., and RAGOTZKIE, R. A. Contamination of vegetables grown in polluted soil. I. Bacterial contamination. Sewage & Indus. Wastes 23: 253-268. Mar.1951. 293.8 Se8  
47613 SKOK, J. Quality of artificially ripened tomatoes for canning purposes. Food Res. 16:147-153. Ref. Mar./Apr.1951. 389.8 F7322  
47614 U. S. PRODUCTION AND MARKETING ADMIN. Grades, requirements, and regulations of the Secretary of Agriculture for carrying out the provisions of the Export Apple and Pear Act. U. S. Prod. & Mktg. Admin. S. R. A.-P. M. A. 143, rev., 7 p. Jan.1950. 1 M34S  
47615 U. S. PRODUCTION AND MARKETING ADMIN. United States standards for grades of canned cranberry sauce. Washington, 1951. 7 p. 1.956 A2Un3353  
47616 U. S. PRODUCTION AND MARKETING ADMIN. United States standards for grades of frozen concentrated blended grapefruit juice and orange juice; notice of proposed rule making. Washington, 1950. 21 p. 1.956 A2Un3352  
47617 WERNER, H. O., RYALL, A. L., and LUTZ, J. M. Effect of storage and transit conditions on the performance of Nebraska-grown Triumph seed potatoes shipped in carlots to Texas and Alabama. Nebr. Agr. Expt. Sta. Res. B. 164,94 p. Feb.1950. 100 N27



Packing and Packaging

47618 BEDOUE, J. Une solution au problème de la conservation en Bretagne. La caisse de stockage. Pomme de Terre Franç. 13(135):10-13. Dec.1950. 75.8 P77  
Seed potatoes.

47619 CARLSEN, E. W., and STOKES, D. R. Pre-packaging apples at point of production. 2. Pre-Pack-Age 4(7):22-26. Mar.1951. 280.38 P91

47620 HEIDKE, L. B. Burlap bags at an all time high; Pakistan and India make exchange trade agreements—controls on burlap ended. Colo. Potato Grower 28(9):1,4. Mar.1951. 75.8 C71

47621 MEYER, F. W., JR. Railroad recommendations; loading arrangements for WGA [Western Growers Association] crates. West. Grower & Shipper 22(4):15, 30-31. Mar.1951. 280.38 W52

Vegetable packing.

47622 SCHWARZ, T. A. Sunsweet and K-202; how dried fruit packer's search for a highly protective film with good handling properties culminated in a new saran-coated cellophane. Mod. Packaging 24(8):122-125, 278. Apr.1951. 309.8 M72

47623 SMITH, B. L. Toward complete self-service; prepackaging of produce is out to eliminate the last of the bottlenecks in today's supermarket. Du Pont Mag. 45(2): 31. Apr./May 1951. 309.8 D92

47624 STEINHILB, K. E. Dehydrated apples packed in film show sales increase. West. Canner & Packer 43(4): 41. Apr.1951. 286.83 W522

Pilofilm.

47625 THOMSON, A. G. Stainless steel for citrus vats. Food Indus. 3(10):93. Feb.1951. 389.8 F7372

Prices, Price Control, and Rationing

47626 AMERICAN FARM BUR. FEDERATION. FRUIT AND VEGETABLE DEPT. Summary of the 1950 contracting season for processing vegetables. n.p., 1950. 8 p. 284.3919 Am3

Prices.

47627 CANADA. MARKETING SERV. MARKET INFORMATION SECT. Seasonal price summaries; fresh fruits and vegetables on 12 Canadian markets 1950. Ottawa, 1950. 35 p. 284.39 C1625

47628 DOLVEN, A. The fruit prices. (In Norwegian.) Gartneryrket 41:21. Jan.13, 1951. 80 G1938  
Norway.

47629 RHODES, N. Jacksonville, Florida vegetable prices. For Sale, Want & Exch. B. 3(10):1. Mar.15, 1951. 280.38 F74

Processing and Storage

47630 ALLEN, F. W., and PENTZER, W. T. Apples, pears, and grapes. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.173-187. Ref. New York, 1951. 295.9 Am32Ref

Cold storage.

47631 ALMGREN, K. Physiological considerations on handling and packing of fruit and vegetables. (In Swedish.) Försök och Forsk. 7:81-84. Nov.1950. 11 F77  
Sweden.

47632 BAKER, G. L., KULP, J. F., and MILLER, R. A. Synthetic fruit products aid dried fruit research. (Sum.) Canner 112(14):22. Apr.7, 1951. 286.83 C16

47633 BIRDSEYE, C. Fruits and vegetables. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.11-15. New York, 1951. 295.9 Am32Ref

Freezing.

47634 BOUILLON, J. Une nouvelle machine pour les féculeries de manioc. Rev. Internat. des Prod. Colon. 26:44. Feb.1951. 286.8 R326  
For processing cassava.

47635 BRISON, F. R. A combination pecan huller and separator. Tex. Pecan Growers Assoc. Proc. 29:38, 40-41. 1950. 94.69 T31

47636 BUDISELICH, E. T., and VAN DOREN, A. Progress report on apple storage experiments. West. Fruit Grower 4(10):11-12. Oct.1950. 95.8 G762

47637 CARDIFF, I. D. Northwest dried apple outlook. West. Canner & Packer 43(3):50-51. Mar.1951. 286.83 W522

47638 CECIL, S. R., and WOODROFF, J. G. Butylated hydroxyanisole as an antioxidant for salted peanuts, salted pecans, and peanut butter. Ga. Agr. Expt. Sta. B. 265, 14 p. Jan.1951. 100 G298

47639 CRUESS, W. V., and RIVERA, W. Fresh juice of Italian variety prunes. Canner 112(13):11. Mar.31, 1951. 286.83 C16

47640 DENMARK. STATENS FORSGEVIRKSOMHED I PLANTEKULTUR. Opbevaringsforsøg med æbler i forskellige typer af frugtlagre [Experiments in storing apples in various types of storage]. Denmark. Stat. Forsøgsvirks. i Plantekultur. Meddel. 458, 4 p. Aug.17, 1950. 11 D412M

47641 DEWEY, D. H. Air blast and vacuum cooling of lettuce; temperature and moisture changes. Amer. Soc. Hort. Sci. Proc. 56:320-326. Dec.1950. 81 So12

47642 DEWEY, D. H. The effects of air blast pre-cooling on the moisture content of the stems of cherries and grapes. Amer. Soc. Hort. Sci. Proc. 56:111-115. Dec.1950. 81 So12

47643 DIEHL, H. C. Refrigerated storage of dehydrated fruits and vegetables. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.369-372. Ref. New York, 1951. 295.9 Am32Ref

47644 EMANUELE, F. Technical orientation in the preparation of fruit juices. (In Italian.) Riv. della Ortofrutticoltura. Ital. 35:49-54. Jan./Feb.1951. 86 R22

47645 ETCHELLS, J. L., and JONES, I. D. Progress in pickle research. 1. Glass Packer 30:264-265, 298, 300, 302. Ref. Apr.1951. 309.8 G463

47646 FREDERICK, W. D. The Ceylon copra kiln. Ceylon Coconut Q. 1(3):21-23. July/Sept.1950. 77.8 C33

47647 GIVENS, R. L. Cold storage of apples in Virginia. Agr. Engin. 32:161-162, 165. Mar.1951. 58.8 Ag83

47648 GLASS, J. L. Corn icing is here. Ice & Refrig. 120(4):34-36. Apr.1951. 295.8 Ic2

47649 HALLER, M. H., and CARTER, R. H. DDT spray residues on apples and the effect of removal treatments. Amer. Soc. Hort. Sci. Proc. 56:116-121.

47650 HARDING, P. L., and others. Storage tests on Florida oranges, 1950. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 236, 10 p. Mar.1951. 1.9 P772Ht

J. S. Wiant, W. A. Radspinner, M. B. Sunday, and J. Kaufman, joint authors.

47651 HARVEY, E. M. Terminal market storage tests on California lemons, 1950. U. S. Bur. Plant Indus., Soils & Agr. Engin. H. T. & S. Off. Rpt. 238, 8 p. Mar. 1951. 1.9 P772Ht

J. S. Wiant, H. W. Hruschka, B. A. Friedman, and E. P. Atrops, joint authors.

47652 HELLIER, E. G., and WEINGARTNER, H. C. Frozen fruit juice concentrates. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.137-145. Ref. New York, 1951. 295.9 Am32Ref

47653 HENDEL, C. E., BURR, H. K., and BOGGS, M. M. Factors affecting storage stability of potato granules. U. S. Bur. Agr. & Indus. Chem. AIC-303, 8 p. Ref. Mar.1951. 1.932 A2Ag82

47654 HOFF, P. Storage of vegetables at point of harvest. Ice & Refrig. 120(3):44. Mar.1951. 295.8 Ic2

Refrigerated storage.

47655 HRUSCHKA, J. W., and KAUFMAN, J. Storage tests with prepackaged cranberries. Pre-Pack-Age 4(7): 18, 20. Mar.1951. 280.38 P91

47656 ISHIDA, J., and ELLIOTT, R. Temperatures for shipping and storing. Hawaii. U. Agr. Ext. C. 296, 2 p. Jan.1951. 275.29 H312Ac

Fruit and vegetables.

47657 JACKSON, T. H., and ROGER, B. E. Pear drying. East African Agr. J. 16:84-85. Ref. Oct.1950. 24 Ea74

47658 JOHNSON, H. B., BUFORD, W. R., and RYALL, A. L. Storage tests on Florida and Texas grapefruit, 1950. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 237, 7 p. Jan.25, 1951. 1.9 P772Ht

47659 LAURITZSON, T. Storage of fruit. (In Swedish.) Sveriges Pomol. För. Arsskr. 1950:313-315. 86 Sv2

47660 LEVIN, J. H., and GASTON, H. P. A hand-operated mechanical aid for dumping fruit. Mich. Agr. Expt. Sta. Q. B. 33:193-198. Feb.1951. 100 M58S

47661 MACRILL, J. R., NIXON, H. W., and NEDVI-DEK, R. D. Citrus fruits. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.188-204. New York, 1951. 295.9 Am32Ref

Cold storage.

47662 MARTINI. Neue wege der kartoffeltrocknung. Neue Mitt. f. die Landwirt. 6:37-38. Jan.20, 1951. 18 N39



- 47663 MOORE, E. L., and others. Canned tangerine juice. II. Citrus Indus. 32(4):5-9. Apr. 1951. 80 C49  
C. D. Atkins, R. L. Huggart, and L. G. MacDowell, joint authors.
- 47664 MULLER, VON. Gemüse für den winterbedarf. Landwirts. Wchnbl. f. Westfalen u. Lippe 108A:370. Mar. 8, 1951. 18 L2346  
Preservation.
- 47665 MUSTARD, M. J., and STAHL, A. L. La congelación de frutas tropicales y subtropicales. Agrotecnia 5:25-33. Jan./Feb. 1951. 8 Ag825  
Introduction and translation by R. Oliver Díaz.
- 47666 PEDERSON, C. S., and ROBINSON, W. B. Boost your quality control and you'll sell more kraut. Food Packer 32(4):32-33. Apr. 1951. 286.83 C165
- 47667 PERRY, J. 1950 pack reviewed. Canad. Food Indus. 22(4):34-35. Apr. 1951. 286.83 C166  
Fruit and vegetables.
- 47668 PORRITT, S. W. The role of ethylene in fruit storage. Sci. Agr. 31:99-112. Ref. Mar. 1951. 7 Sci2
- 47669 PORTER, G. Potato storage. Edinb. & East Scot. Col. Agr. B. 21:22-28. May 1950. 103 Ed4E
- 47670 PRIEST, C. S., and SETORI, B. J. Pectin in jam and jelly standardisation. Food Mfr. 26:161-162. Apr. 1, 1951. 389.8 F736
- 47671 REAR, J. C. Ice extends storage of grapes. Ice & Refrig. 120(4):11-13. Apr. 1951. 295.8 Ic2
- 47672 RYALL, A. L. Research points way to modern storage practice for fruits. Ice & Refrig. 120(3):48-51. Mar. 1951. 295.8 Ic2
- 47673 SKEPPER, A. H., and DAVISON, J. R. Dehydration of fruit; types of plant in use in New South Wales. Agr. Gaz. N. S. Wales 62:23-27. (Cont.) Jan. 1, 1951. 23 N472
- 47674 TISCHER, R. G. A high temperature process for the extraction of Concord grape juice. Food Technol. 5:160-163. Apr. 1951. 389.8 F7398
- 47675 TROY, V. S. The importance of technicians schools to the tomato canner. Canner 112(13):16-17. Mar. 31, 1951. 286.83 C16
- 47676 UNION OF SOUTH AFRICA. DECIDUOUS FRUIT BOARD. Report of the controller and auditor-general on the accounts for the period 1st August, 1947 to 31st July, 1948 and the balance sheet as at 31st July, 1948. Pretoria, 1950. 43 p. 286.3939 So83
- 47677 VERHULST, M. P. Co-operation between vegetable growers and canners. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:161-169. 81 V52
- 47678 WALKER, L. H., NIMMO, C. C., and PATTERSON, D. C. Preparation of a frozen apple juice concentrate. Food Technol. 5:148-151. Ref. Apr. 1951. 389.8 F7398
- 47679 WEINBERGER, J. H. Chilling requirements of peach varieties. Amer. Soc. Hort. Sci. Proc. 56:122-128. Dec. 1950. 81 So12
- 47680 WILLIAMS, T. I. United Kingdom: advance in scientific storage. Agr. Econ. 2(3):17, 19. Nov. 1950. 281.8 Ag832  
Apples.
- 47681 WILTON, G. M. Canning dates in Arizona. West. Canner & Packer 43(3):30-31. Mar. 1951. 286.83 W522
- 47682 WINTER, J. D. Garden for the freezer. Farmer [St. Paul]. Gen. Ed. 69(7):12, 66. Apr. 7, 1951. 6 F2211  
Vegetable varieties for freezing.
- 47683 WOLDERT, J. Concerns of the pecan sheller. Tex. Pecan Growers Assoc. Proc. 29:53. 1950. 94.69 T31
- 47684 WOLPERT, N. N. Storage and processes. In American Society of Refrigerating Engineers. Refrigerating data book, ed. 3, p. 771-782. Ref. New York, 1951. 295.9 Am32Ref  
Includes bananas, mushrooms, and tobacco.
- 47685 WRIGHT, C. E. Florida growers study ways to reduce losses in handling tomatoes and potatoes. Mkt. Growers J. 80(3):32-33, 42. Mar. 1951. 6 M34
- Statistics
- 47686 ANJOU, K. Commercial fruit growing in Sweden. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950: 241-274. 86 Sv2  
Statistics.
- 47687 BORGSTRÖM, G. The apple in world economy. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:114-130. 86 Sv2  
Statistics.
- 47688 BREJOUX, P. De la variabilité des récoltes en Beaujolais. France. Inst. Natl. des Appellations d'Origine des Vins et Eaux-de-Vie. B. 35:18-33. Sept. 1950. 390.9 F843  
Variations in grape yields and quality.
- 47689 BROOKS, R. M. Apricot harvest predictable; method of reliable forecast five to ten weeks before harvest an aid in merchandising fruit at right time. Calif. Agr. [Calif. Sta.] 3(4):3, 14. Apr. 1951. 100 C12Cag
- 47690 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Garlic, production and imports, shipments and prices, by R. C. Rock. Berkeley, 1950. 8 p. 275.2 C12Gar
- 47691 HENRIKSON, K. Fruit yields in 1949. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:316-319. 86 Sv2
- 47692 PEARSON, F. A., MYERS, W. I., and WARREN, S. W. Crop yields in New York State. I. Field and canning crops. N. Y. Agr. Col. Farm Econ. 179:4662-4684. Mar. 1951. 280.8 C812
- 47693 U. S. BUR. OF AGRICULTURAL ECONOMICS. Florida vegetable crops; annual statistical summary, 1950, VI, by J. B. Owens, G. N. Rose, J. C. Townsend, Jr. and D. L. Brooke. Orlando, 1951? 128 p. 1.941 H8V528
- 47694 U. S. BUR. OF AGRICULTURAL ECONOMICS. Merchantable potato stocks large on March 1 despite continued heavy marketings in February. Washington, 1951. 2 p. 1.941 S8P85
- GRAIN AND GRAIN PRODUCTS
- 47695 AHRENDES, E. R. Montana wheat production in the changing 50s. Mont. Farmer-Stockman 38(13):10, 25. Mar. 1, 1951. 6 M764
- 47696 BARREIROS, H. DE A. Parboiling of rice by the action of water vapor. (In Portuguese.) Gaz. do Agr. 2:272-273. Nov. 1950. 24 G25
- 47697 BENOIST, J. Le prix de l'orge. Défense Agr. de la Beauce et du Perche 48:121. Mar. 17, 1951. 14 D36
- 47698 BLACK, K. Die kühlung des mahlgutes im walzenstuhl. Müllerei 4:106-107. Feb. 10, 1951. 298.8 M91
- 47699 BONTHORNE, A. The malting qualities of barley. Edinb. & East Scot. Col. Agr. B. 25:39-47. Aug. 1950. 103 Ed4E  
Includes discussion.
- 47700 BOSTROM, C. E. Futures market insures grain prices. Soybean Digest 11(5):24. Mar. 1951. 60.38 So9
- 47701 BOULAABA, C. Production des orges de brasserie en Tunisie. Almanach Agr. Tunisie 1951:185-187. 24 AL6  
The industry.
- 47702 BROCKELSBY, C. F. An instrument for estimating the moisture content of grain and other materials by the measurement of electrical conductance. Cereal Chem. 28:83-94. Mar. 1951. 59.8 C33
- 47703 THE CASE for the western wheat grower. Calgary, Alberta Wheat Pool, 1950. 6 p. 280.259 C26
- 47704 CHARTRES, C. B. Combining, drying, and handling grain on a Border farm. Edinb. & East Scot. Col. Agr. B. 20:28-39. May 1950. 103 Ed4E  
Includes discussion.
- 47705 COYAUD, Y. Les travaux de l'Office Indochinois du Riz. Rev. Internatl. des Prod. Colon. 26:27, 29-30. Feb. 1951. 286.8 R326
- 47706 CRAFA, J. A., STANSBRY, J. J., and SCALLET, B. L. Accuracies of growth and staining methods for determination of germinative capacity of barley. Amer. Soc. Brewing Chem. Proc. 1950:55-62. 1951. 390.9 Am321  
Includes discussion.
- 47707 DAUPHIN, J. La politique du blé de l'O.N.I.C. [Office National Interprofessionnel des Céréales]. Cahiers des Ingén. Agron. 6:49-52. Fourth Q. 1950. 14 C112  
France.
- 47708 EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE. The handling of grain from combine harvesters; the proceedings of a conference of farmers held in the Tait Hall, Kelso, Roxburghshire, on 12th January 1950. Edinb. & East Scot. Col. Agr. B. 20, 40 p. May 1950. 103 Ed4E
- 47709 FREY, K. J. The interrelationships of proteins and amino acids in corn. Cereal Chem. 28:123-132. Ref. Mar. 1951. 59.8 C33
- 47710 FRITSCH, E. Künstlich erzeugene phasenverschiebungen im fermenthaushalt des kornes und der mehle; beiträge zu dem problem der getreidevorbereitung. Wiss. Müllerei 1951(2):9-13. In Müllerei 4(7). Feb. 17, 1951. 298.8 M91
- 47711 GAUSS, W. Weizenverteuerung - nur vorübergehend? Müllerei 4:108-109. Feb. 10, 1951. 298.8 M91  
Prices.



- 47712 GRAIN AND FEED DEALERS NATIONAL ASSOCIATION. Directory, spring 1951. St. Louis, 1951. 76 p. 225 G763
- 47713 GRAY, W. D. Milling's golden era; the planifier and other sieve machines. Nowest. Miller (Milling Prod. Sect.) 245(11):4a-6a. Mar.13, 1951. 298.8 N81
- 47714 GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. A farmer's guide to the sale of corn from the 1950 harvest. London? 1950. 24 p. 281.3599 G792
- 47715 HADDAD. Qualité et exportation des blés durs. Almanach Agr. Tunisie 1951:157-161. 24 AL6
- 47716 HALL, T. E., and LARSON, A. L. Cash grain storage: research work in progress. Amer. Coop. 22: 597-607. 1950. 280.29 Am3A
- 47717 HALLE, P. Le marché du blé; silos, entrepôts, commercialisation, stockage; marché mondial du blé. Cahiers des Ingén. Agron. 6:47-48. Fourth Q. 1950. 14 C112
- 47718 HAMMOND, W. E. Survey of the present and potential industrial uses of straw, with special reference to Nebraska. Nebr. Agr. Expt. Sta. B. 401, 47 p. Ref. Dec. 1950. 100 N27
- 47719 HELINE, O. Grain marketing: how to obtain better understanding by farmers of their local and terminal marketing program: introductory statement. Amer. Coop. 22:567-568. 1950. 280.29 Am3A
- 47720 HENDRICKSON, R. F. Grain marketing: how to obtain better understanding by farmers of their local and terminal marketing program: what special contributions can be made by terminal cooperatives. Amer. Coop. 22: 569-571. 1950. 280.29 Am3A
- 47721 HIGGINS, F. H. Chemical drying not to replace drier. Rice J. 54(2):28. Feb. 1951. 59.8 R36
- 47722 HLYNKA, I., and ANDERSON, J. A. Further studies on the reaction of wheat proteins with reducing carbohydrates. Cereal Chem. 28:136-144. Mar. 1951. 59.8 C33
- 47723 HOWE, M. A rapid method for the determination of potassium bromate in flour. Cereal Chem. 28:132-135. Mar. 1951. 59.8 C33
- 47724 HULLINGER, C. H., and WHISTLER, R. L. Oxidation of amylose with hypochlorite and hypochlorous acid. Cereal Chem. 28:153-157. Ref. Mar. 1951. 59.8 C33
- Wheat and potato amylose.
- 47725 HUTCHISON, A. O. Combine barley; the point of view of the buyer. Edinb. & East Scot. Col. Agr. B. 20: 17-27. May 1950. 103 Ed4E
- Includes discussion.
- 47726 KENT-JONES, D. W. Evaluation of flour colour. Milling 116:282. Mar. 24, 1951. 298.8 M622
- 47727 KLENKE, W. G. O. Bulk handling of wheat. So. Austral. Dept. Agr. J. 54:296. Jan. 1951. 23 So84
- 47728 KOLLATH, W. Die auxone und ihre erhaltung bei der getreide-verarbeitung. Wiss. Mülerei 1951(2):14-15. (Concl.) In Mülerei 4(7). Feb. 17, 1951. 298.8 M91
- 47729 KROSBY, P. Watch the seed grain. (In Norwegian.) Norsk Landbr. 17:109-111. Mar. 16, 1951. 11 N8122
- 47730 LEA, P., and CASSIDY, J. Stabilisation of oat products. Biscuit Maker & Plant Baker 2:50, 56. Feb. 1951 389.8 B54
- 47731 LEOPOLD, R. Aktuelle fragen der getreide-wirtschaft. Oberöstr. Landwirtschaft. 23(2):1. Jan. 10, 1951. 19 Ob23
- 47732 LOOMIS, C. W. The production, use, and farm storage of wheat in the New York Wheat Belt. N. Y. Agr. Col. A. E. 768, 22 p. Feb. 1951. 281.9 C81
- 47733 LOWRY, M. T., and OLSON, W. J. Studies on the extraction of alpha-amylase from barley malt. Amer. Soc. Brewing Chem. Proc. 1950:51-54. 1951. 390.9 Am321
- Includes discussion.
- 47734 MIGUEL Y CUSCO, J. Lonjas de contratación, mercado de cereales y sus derivados. Ceres [Valladolid] 16(176):7. Feb. 1, 1951. 15 C33
- 47735 MILNER, M., and others. Prevention of deterioration due to moisture. Grain & Feed J. Consolidated 106(7):15, 17. Apr. 11, 1951. 298.8 G762
- H. L. Mitchell, J. A. Godding, and H. H. Laude, joint authors.
- Sorghum grain and alfalfa hay.
- 47736 NASH, P. Grain marketing: how to obtain better understanding by farmers of their local and terminal marketing program: what special contributions can be made by local cooperatives. Amer. Coop. 22:572-573. 1950. 280.29 Am3A
- 47737 NAUDE, C. P., BRUWER, P. V. D. M., and PRETORIUS, W. P. The crude fibre content of sifted and unsifted maize meal. Union So. Africa. Dept. Agr. Sci. B. 313, 12 p. 1950. 24 So84S
- 47738 NEGRI, G. La macinazione agricola dei cereali per un migliore sfruttamento [Milling of grain for improved output]. Ed. 2, rev. by A. Negri. Milano, Hoepli, 1950. 182 p. 298 N31
- History.
- 47739 NESBITT, L. D. Light on the wheat marketing situation. West. Farm Leader 16:102-103, 109. Apr. 6, 1951. 280.28 W52
- 47740 NORWAY. STATENS KORNFORRETNING. Melding XXI, budsjettåret 1949/1950 [The State Grain Marketing Commission. Report XXI, fiscal year 1949/1950]. Oslo, 1950. 63 p. 287 N83
- 47741 OMAHA GRAIN EXCHANGE. Forty-seventh annual report, 1950. Omaha, 1951. 21 p. 287 Om12
- 47742 PARGUEY. Sur le maïs. Défense Agr. de la Beauce et du Perche 48:80. Feb. 17, 1951. 14 D36
- Importance of culture.
- 47743 PENCE, J. W., ELDER, A. H., and MECHAM, D. K. Some effects of soluble flour components on baking behavior. Cereal Chem. 28:94-104. Ref. Mar. 1951. 59.8 C33
- 47744 PETERSON, K. D. Grain marketing: how to obtain better understanding by farmers of their local and terminal marketing program: what special contributions can be made by the Extension Service. Amer. Coop. 22: 574-580. 1950. 280.29 Am3A
- 47745 RAMONA, R. DE. Intensifiquemos la producción de trigo. Cult. Mod. 34:3. Jan. 1951. 15 C89
- Spain.
- 47746 REIFF, F. Chemische verarbeitung von Körnerfruchtabfällen. Chem.-Ingen.-Tech. 23:73-75. Feb. 14, 1951. 384 C428
- 47747 REPSOLD, K. Wheat and the agronomist. (In Portuguese.) Lavoura 54:5-6. Nov./Dec. 1950. 9.2 L39
- 47748 RIOS, R. M. Wheat economy. (In Portuguese.) Rev. dos Mercados 1(4):30-36. Dec. 1950. 286.8 R328
- Brazil.
- 47749 RIVES, E. A. Capacidad productiva de trigo en las distintas zonas del país. Bolsa de Com., Rosario. Rev. 39(938):7-9. Feb. 15, 1951. 287 R71
- 47750 SANCHEZ, R. J. La limpieza del trigo en las fábricas de harinas. Ceres [Valladolid] 16(176):5. Feb. 1, 1951. 15 C33
- 47751 SCHMORL, K. Kolloide in der mülerei und bäckerei. Mülerei 4:5, 47. Jan. 6, 27, 1951. 298.8 M91
- Colloids in grain.
- 47752 SCHWIMMER, S. The malt amylases; a review of recent literature. Brewers Digest 26(3):45-46, 49-50, 58. (To be cont.) Ref. Mar. 1951. 390.8 B75
- 47753 SEEGER, W. Mehr wachsamkeit bei der lagerung von getreide. Versorgung 5:23-24. Feb. 1951. 280.8 V61
- Russian Zone of Germany.
- 47754 SMITH, W. D., and MCCREA, W., JR. Measuring the severity of scouring necessary for the milling of rice. Rice J. 54(3):15-16. Mar. 1951. 59.8 R36
- 47755 SMITH, W. D., and MCCREA, W., JR. Where breakage occurs in the milling of rice. Rice J. 54(2):14-15. Feb. 1951. 59.8 R36
- 47756 SOKOLOV, A. Ia. Tekhnologicheskoe oborudovanie elevatorov, mel'nits, krupitsnykh i kombikormovykh zavodov [Technological outfitting of grain elevators, flour mills, groat and combined feed mills]. Moskva, Gos. Izd-vo Tekhn. i Ekon. Lit-ry po Voprosam Zagotovok, 1950. 756 p. 298 So3
- 47757 SOUTH AUSTRALIA. STATISTICAL OFF. Cereal harvest forecast, 1950-51. So. Austral. Statis. Off. B. 1950(19), 1 p. Dec. 20, 1950. 271.4 St2Fc
- 47758 SOUTH DAKOTA. COOPERATIVE CROP AND LIVESTOCK REPORTING SERV. South Dakota, market supplies and storage facilities, small grain and corn. Sioux Falls? 1950. 20 p. 280.3 So88
- 47759 SWORD, J. The milling qualities of oats. Edinb. & East Scot. Col. Agr. B. 25:32-39. Aug. 1950. 103 Ed4E
- Includes discussion.
- 47760 TORRES FILHO, A. Corn (Zea mays L.) in the national economy. (In Portuguese.) Lavoura 54:3-4. Nov./Dec. 1950. 9.2 L39
- Brazil.
- 47761 U. S. PRODUCTION AND MARKETING ADMIN. Corn needed for defense, 1951. U. S. D. A. PA-151, 4 p. folder. Mar. 1951. 1 Ag84Pro
- 47762 U. S. PRODUCTION AND MARKETING ADMIN. Rice: acreage, yield, and production, United States. Washington, 1950. 2 p. 1.956 G76R384
- 47763 U. S. PRODUCTION AND MARKETING ADMIN. Wheat needed for defense, 1951. U. S. D. A. PA-152, 4 p. folder. Mar. 1951. 1 Ag84Pro



- 47764 U. S. PRODUCTION AND MARKETING ADMIN. Yield per planted acres [corn, oats, barley] with 5-year averages [1946-50]. Washington, 1951. 3 p. 1.956 G78Y5
- 47765 VASAK, O. R. Rice curls; production and costs. *Rice J.* 54(2):30-33. Feb. 1951. 59.8 R36
- 47766 WATSON, S. A., WILLIAMS, C. B., and WAKELY, R. D. Laboratory steeping procedures used in a wet milling research program. *Cereal Chem.* 28:105-118. Mar. 1951. 59.8 C33
- 47767 WILLIAMSON, W. F. The technique of drying grain. *Edinb. & East Scot. Col. Agr. B.* 20:7-16. May 1950. 103 Ed4E  
Includes discussion.
- 47768 WILSON, A. S. B. Barley P's and Q's; price, quantity, quality. *Farmers Wk. [London]* 34(12):53. Mar. 22, 1951. 10 F2226
- 47769 WOLFF, I. A., OLDS, D. W., and HILBERT, G. E. Triesters of corn starch, amylose, and amylopectin. *Indus. & Engin. Chem.* 43:911-914. Ref. Apr. 1951. 381 J825
- 47770 WOODWORTH, R. C. Free markets. *Grain & Feed Rev.* 40(8):16,56-57. Apr. 1951. 280.28 C78  
Grain exchange.

## HONEY AND BEESWAX

- 47771 ANDER, C. Honey marketing problems. (In Swedish.) *Bitidningen* 50:53-55. Feb. 1951. 424.8 B54
- 47772 ANDERSSON, I. Overproduction of honey. (In Swedish.) *Bitidningen* 50:20-21. Jan. 1951. 424.8 B54  
On the need for advertising of honey in Sweden.
- 47773 BABCOCK, D. C. Historia y apología de la miel. *Gac. del Colmenar* 12(135):20-21. June 1950. 424.8 G11
- 47774 BAILLARD, D. Le marché du miel. L'effondrement des cours. *Gaz. Apic.* 51:280-281. Dec. 1950. 424.8 G25
- 47775 BENAVIDES, J. La miel; breve reseña histórica. *Gac. del Colmenar* 12(136):1-3. July 1950. 424.8 G11
- 47776 BRYCE, D. L., and BRYCE, D. H. Honey showing and judging. *IV. Bee Craft* 33:34. Feb. 1951. 424.8 B3925
- 47777 DAVIS, W. G. Judging honey. *So. African Bee J.* 25(6):11,13. (To be cont.) Jan./Feb. 1951. 424.8 So82
- 47778 DUNBABIN, T. Australia's honey industry. *Travers' C. (n.s.)* 418:33-34. Mar. 10, 1951. 286.83 P94
- 47779 FOSSATI, L. Notes on the sale of honey. (In Italian.) *Apic. d'Italia* 18:7. Jan. 1951. 424.8 Ap372
- 47780 GONTARSKI, H. Zur analyse der formbestandteile des waldhonigs. *Z. f. Bienenforsch.* 1:33-37. Jan. 1951. 424.8 Z3
- 47781 HAMILTON, C. G. D. Honey hard to market. (In Swedish.) *Bitidningen* 50:53. Feb. 1951. 424.8 B54
- 47782 HAMMAR, C. Honey—unsalable commodity. (In Swedish.) *Bitidningen* 50:52. Feb. 1951. 424.8 B54  
Sweden.
- 47783 HAMMAR, C. Production-consumption. (In Swedish.) *Bitidningen* 50:8-13. Jan. 1951. 424.8 B54  
Honey in Sweden.
- 47784 HESSBERG, H. VON. Die Madsen'sche formel. *Südwestdeut. Imker* 2:320-321. Nov. 1950. 424.8 Su25  
Sugar content of nectar and honey.
- 47785 JELPO, J. B. Qué se entiende por mieles de calidad. *Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Almanaque Agr. de la Repub. Dominicana* 1951:40,44,48. 1950? 8 D714
- 47786 KJELLÉN, C. Why is it so difficult to sell the honey? (In Swedish.) *Bitidningen* 50:23,25. Jan. 1951. 424.8 B54  
Sweden.
- 47787 LECOCQ, MME. H. Le miel, l'âme des fleurs. *Abeille et l'Erable (ser.2)* 20:30,32. (To be cont.) Feb. 1951. 424.8 Ab32  
Utilization.
- 47788 PAISLEY, T. Sales tales. *Gleanings Bee Cult.* 79:236. Apr. 1951. 424.8 G47  
Honey.
- 47789 ROSWALL, G. Where and how can we find new customers for our honey? (In Swedish.) *Bitidningen* 50:39-42. Feb. 1951. 424.8 B54  
Sweden.
- 47790 ROTHAAAS, A. Kleiner beitrag zum thema reifung des honigs. *Südwestdeut. Imker* 2:321. Nov. 1950. 424.8 Su25
- 47791 SEGERPALM, S. Honey—unsalable commodity. (In Swedish.) *Bitidningen* 50:21-22. Jan. 1951. 424.8 B54  
Marketing in Sweden.

- 47792 U. S. PRODUCTION AND MARKETING ADMIN. United States standards for grades of extracted honey. Washington, 1951. 11 p. 1.9422 Su8H75
- 47793 WILLIS, P. E. Heat treatment of run honey. *Irish Beekeeper* 5:5-6,17. Jan. 1951. 424.8 Ir42

## LIVESTOCK AND LIVESTOCK PRODUCTS

- 47794 AMERICAN MEAT INSTITUTE FOUNDATION. Research 1949-1950. *Amer. Meat Inst. Found. B.* 10,34 p. Jan. 1951. 50.9 Am322
- 47795 ARGENTINE cattle-raising industry. *Com-ments Argentine Trade* 30(7):13-16. Feb. 1951. 287 C359C  
Beef cattle.
- 47796 ATTOLINI, J. Economía de la Cuenca del Papaloapan; bosques, fauna, pesca, ganadería e industria. México, Instituto de Investigaciones Económicas, 1950. 176 p. 281.14 At8E
- 47797 AUSTRALIA. MEAT BOARD. Fifteenth annual report, year ended 30th June, 1950. Sydney, 1950. 124 p. 286.3509 Au7
- 47798 BARAT, A. La production animale dans les Etats de l'Est des U.S.A. France. *Mn. de l'Agr. B. Tech. d'Inform.* 55:741-750. Dec. 1950. 14 F844B
- 47799 BECKER, H. Bedenklicher rückgang der schafbestände. *Landwirtbl. Weser-Ems* 98:116-117. Feb. 8, 1951. 18 L2345
- 47800 BECKMAN, H. J. Pork picture—war situation, better management bring increase in pig production. *West. Livestock J.* 29(22):142-144. Mar. 15, 1951. 6 F2278
- 47801 CALDER, A. Some problems facing the pig industry. *Farmer's Club J.* 1951:14-29. 10 L84  
Includes discussion.  
Great Britain.
- 47802 CATTLE and beef trade in 1950 and outlook. *Indus. & Develpmt. Council. Canad. Meat Packers. Let. Canad. Livestock Prod.* 2:1-3. Feb./Mar. 1951. 286.85 In2
- 47803 CIARROCCA, V. Livestock and agricultural economy. (In Italian.) *Italia Agr.* 88:59-65. Feb. 1951. 16 It1
- 47804 CONWAY, H. M. Higher real wages cause strong demand for meat products. *Natl. Live Stock Prod.* 29(7):4,16. Apr. 1951. 280.38 N21
- 47805 COSSETTE, M. Élevons des moutons qui rapportent plus. *B. des Agr.* 47(3):80-81,86-88. Mar. 1951. 7 B872  
Canada.
- 47806 DAVIS, F. E. Less meat for Europe from the Americas. Washington, U. S. Off. Foreign Agr. Relat., 1951. 6 p. 1.943 D29  
Summary of remarks at annual convention of the American National Livestock Association, San Francisco, Jan. 9, 1951.
- 47807 DREW, E. L. Raw stock supplies may increase. *Shoe & Leather Rptr.* 261(10):55-58. Mar. 10, 1951. 303.8 Sh7
- 47808 FONTAINES, G. DE. Note sur la mission "élevage et viande" aux Etats-Unis, 1950. *Agro d'Angers* 29(275):13-14. Jan. 1951. 105.3 An4
- 47809 FREUND, W. We've got the meat. *Farmers Wk. [London]* 34(13):57. Mar. 30, 1951. 10 F2226  
Use of cow-beef and veal to improve the meat ration in Great Britain.
- 47810 GARNER, F. Sausage saga; first pre-packed food has had chequered career. *Co-op. Rev.* 25:84-85. Apr. 1951. 280.28 C7823
- 47811 GARRIDO LOZIER, O. La ganadería chilena y la prohibición de matanza de hembras bovinas menores de cuatro años. *Campesino [Santiago]* 83:17. Jan. 1951. 9.3 So12
- 47812 GUMPPENBERG, FREIHERR VON. Tagesfragen der deutschen schafzucht. *Neue Mitt. f. die Landwirt.* 6:131-132. Mar. 3, 1951. 18 N39  
The industry in Germany.
- 47813 HECTOR, E. O. Outlook for Scots commercial stock. *Farming News & No. Brit. Agr.* 103:26-27. Jan. 1, 1951. 10 N82
- 47814 HELSTEIN, R. Labor's stake in a prosperous livestock industry. *Corn Belt Livestock Feeder* 3(6):20-22. Mar. 1951. 280.38 C81
- 47815 HOTSON, J. E. A year from now you'll sell your dozen pelts like hot cakes. *Fur & Feather* 114:203. Mar. 29, 1951. 49 F96  
British rabbit raising.
- 47816 KALLICK, J. N. The controls we'll live with. *Leather & Shoes* 121(11):14,71-73. Mar. 17, 1951. 303.8 H53



47817 KELLOGG, C. E. The domestic rabbit industry. *Angora Rabbit Mag.* 6(5):4. Mar.1951. 40.28 An42

47818 LATHROP, H. O. Distribution and development of the beef cattle industry of Florida. *J. Geog.* 50: 133-144. Apr.1951. 278.8 J82

47819 LLANO GÓMEZ, E. La obra del Fondo Ganadero de Antioquia. *Ganado* 3(21):35-44. Oct.1950. 49 G153

47820 LONG, C. M. Beef production in peace or in war. *Corn Belt Livestock Feeder* 3(6):18-20. Mar.1951. 280.38 C81

47821 MEJÍA, J. M. La ganadería en Antioquia. *Ganado* 3(21):55-57. Oct.1950. 49 G153

47822 MORIN, A., and CHOQUETTE, C. La production du porc va bon train. *B. des Agr.* 47(3):14-15,23,85. Mar.1951. 7 B872

The industry in Canada.

47823 MORLEY, A. A good pig year. *Farming News & No. Brit. Agr.* 103:88-89. Jan.1,1951. 10 N82

47824 NIKLAS, W. Wesen, inhalt und bedeutung des vieh- und fleischgesetzes. *Deut. Tierärztl. Wchnschr.* 58:81-82. Mar.15,1951. 41.8 D482

47825 ORCUTT, E. P. Montana sheep production in the changing 50s. *Mont. Farmer-Stockman* 38(14):8,51. Mar.15,1951. 6 M764

47826 PERCIVAL, G. M. To meet increased needs, Australia must begin now to grow more meat. *Adelaide Chamber Com. Trade Digest* 1(9):10-11,16. Jan.1951. 287 Ad3T

47827 RAJA, S. Leather & tanning in other countries. *Tanner* 5(9):16-19. (Cont.) Feb.1951. 303.8 T15

47828 ROWSELL, J. Sheep have a real future and not only on the hills but in the South of England too. *Farmer & Stock-Breeder* 65(3207):40,42. Apr.10/11,1951. 10 F228

47829 SALDARRIAGA L., M. Antioquia, Bolfvar y su industria pecuaria. *Ganado* 3(21):34-35. Oct.1950. 49 G153

47830 SCHNITZER, J. G. Leather controls: a progress report. *Leather & Shoes* 121(11):12,74-78. Mar.17, 1951. 303.8 H53

47831 SCHNITZER, J. G. Providing the supplies for defense. *Shoe & Leather Rptr.* 261(10):20-25. Mar.10, 1951. 303.8 Sh7

47832 SIMONPIETRI, R. H. Los cueros, una riqueza nacional que debe defenderse. *Campo [Guadalajara]* 19 (13):7-8. Jan.1951. 8 G76

47833 SMIRNOV, T. On accounting in the livestock procurement system. (In Russian.) *Miasnafa Indus. SSSR.* 21(5):51-55. Sept./Oct.1950. 50.8 M58

47834 TERRA, M. G. Livestock is still the basic pillar in the Rio Grande economy. (In Portuguese.) *Fed. das Assoc. Rur. do R. G. do Sul.* B. 10(91):18-20. Oct. 1950. 9.2 F31

47835 VARINGER, E. Animal husbandry in Södermanland Province. (In Swedish.) *Skand. Kreatursförsäkringsbol. Månadsbl.* 29:21-23,24-25. Feb.1951. 49.9 Sk1

47836 VILLEGAS, V., and FLORES, C. A. The fresh meat supply in the city of Baguio. *Philippine Agr.* 33:288-294. Apr./June 1950. 25 P542

47837 WILLSON, F. S. Montana beef cattle production in the changing 50s. *Mont. Farmer-Stockman* 38(12):6,18. Feb.15,1951. 6 M764

#### Analysis and Composition

47838 BALFE, M. P. Leather: its constitution and properties. (Sum.) *Roy. Inst. Chem. J.* 74:242. June 1950. 382 In7

47839 BLANCHARD, L., and others. Recherches sur le pH des viandes de boucherie. *Acad. Vét. de France.* B. 24:34-38. Jan.1951. 41.9 R24

A. Nénot, J. Pantaléon, and J. Poisson, joint authors.

47840 CHERNOV, N. V., and KOTINA, V. E. Soluble proteins of animal skins. (In Russian.) *Biokhimifa* 15: 473-477. Ref. Nov./Dec.1950. 385 B523

47841 HACKEMANN, A. Chemie des fleisches. *Leben u. Umwelt* 7:113-115. Feb.1951. 410 L49

47842 LOLLAR, R. M. The mold resistance of leather. *Leather Mfr.* 62(3):15-18,20. Mar.1951. 303.8 L484

47843 MANN, C. Sampling of leather—a procedure is developed. *Shoe & Leather Rptr.* 261(8):31-32. Feb.24, 1951. 303.8 Sh7

47844 MEYN, A. Zur frage des vorkommens von tuberkelbakterien im fleisch tuberkulöser rinder. *Deut. Tierärztl. Wchnschr.* 58:45-47. Feb.1,1951. 41.8 D482

47845 SEGALOVE, M., and DACK, G. M. Growth of bacteria associated with food poisoning experimentally inoculated into dehydrated meat. *Food Res.* 16:118-125. Mar./Apr.1951. 389.8 F7322

47846 TAPERNOUX, A., GONNET, M., and MAGAT, A. Le calcul de l'humidité et de la teneur en matière grasse des saucisses et des saucissons d'après le résultat de l'analyse des produits partiellement desséchés. *Rev. de Méd. Vét. [Toulouse]* 101:475-481. Oct. 1950. 41.8 R32

#### Consumption and Utilization

47847 DUBROVIN, G. D. On the use of meat of animals which were poisoned with sodium fluoride and had to be slaughtered. (In Russian.) *Veterinariia* 27(11): 40-41. Nov.1950. 41.8 V6426

47848 TROSCHE, T. Der beitrage der tierkörperverwertungsindustrie zum deutschen fettaufkommen. *Fette u. Seifen* 53:57-58. Jan.1951. 384 C422

47849 TROSCHE, T. Tierkörperverwertung in Westdeutschland. *Chem.-Ingen.-Tech.* 23:24-25. Jan.14,1951. 384 C428

47850 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Meat: variations in consumption and interrelationships with other foods. *U. S. Bur. Human Nutr. & Home Econ. Commod. Sum.* 11,30 p. Apr.1951. 1.982 A2C733

#### Distribution, Marketing, and Transportation

47851 BRACHETKA, J. Gewährleistung bei viehmängeln und fristengesetz. *Wien. Tierärztl. Monatsschr.* 38:48-50. Jan.1951. 41.8 T345

47852 CINCINNATI UNION STOCK YARD CO. Seventy-seventh annual live stock report, 1950. *Cincinnati*, 1951. folder. 49.9 C49

47853 DAVISON, H. Experiences in developing an order buying program for fat livestock at terminal markets and country points. *Amer. Coop.* 22:614-621. 1950. 280.29 Am3A

47854 DUCK, R. W. All sheep go to market. *Rur. New-Yorker* 101:226,232. Mar.17,1951. 6 R88

47855 ESTEBAN, M. La ganadería salmantina; la cooperación en la mejora de los productos ganaderos. *Cooperación [Madrid]* 106:12-13. Dec.1950. 280.28 C7875

47856 FLETCHER, P. L. Opportunities and pattern for further development of cooperative livestock marketing in the United States: Southern States. *Amer. Coop.* 22: 643-646. 1950. 280.29 Am3A

47857 FLORIO, R. Du délai pour tenter l'action en matière de tuberculose bovine, vice réhibitoire. *Rev. de Méd. Vét. [Toulouse]* 101:495-497. Oct.1950. 41.8 R32

47858 GOWLAND, J. S., and BRATZLER, L. J. Technical and operational problems of self-service meat merchandising. *Mich. Agr. Expt. Sta. Q. B.* 33:204-210. Feb. 1951. 100 M58S

47859 HAHNE, D. Straight from the shoulder; of vital importance to producers of Aberdeen-Angus cattle is the marketing of surplus breeding stock and finding the proper media to reach the largest number of prospective buyers promptly, efficiently. *Aberdeen-Angus J.* 32(8): 64,76 D-76 F. Mar.1951. 43.8 Ab3

Value of beef cattle magazines in advertising.

47860 HOOPER, J. A. Opportunities and pattern for further development of cooperative livestock marketing in the United States: introductory statement. *Amer. Coop.* 22:634-635. 1950. 280.29 Am3A

47861 MCAULIFFE, W. S. Care needed in marketing of pigs in hot weather. *So. Austral. Dept. Agr. J.* 54:284, 293. Jan.1951. 23 So84

47862 MITCHELL, J. W. Opportunities and pattern for further development of cooperative livestock marketing in the United States: Southwestern States. *Amer. Coop.* 22:652-654. 1950. 280.29 Am3A

47863 NIVROMONT, P. La flotte frigorifique française et le transport des viandes frigorifiées. *Paris, Foulon*, 1950. 63 p. 295 N64

These - Ecole Nationale Vétérinaire d'Alfort.

47864 PATTISON, B. P. Stockmen ring bell with sales ring. *News Farmer Coop.* 18:7,20. Apr.1951. 166.2 N47

Marketing livestock through the Southwest Michigan Livestock Cooperative, Inc., at Battle Creek.

47865 PLATE, R. Vorausschau auf den schweine-markt 1951. *Neue Mitt. f. die Landwirt.* 6:49-51. Jan.27, 1951. 18 N39

Germany.



47866 RANDELL, C. G. Opportunities and pattern for further development of cooperative livestock marketing in the United States: Eastern States. *Amer. Coop.* 22:636-642. 1950. 280.29 Am3A

47867 RICKETTS, V. L. Advertising [dog] stock. *All-Pets Mag.* 22:37-39. Jan.1951. 48.8 AL5

47868 RUSSELL, S. F. Correlation of hog sales in the Corn Belt. *Amer. Coop.* 22:625-633. 1950. 280.29 Am3A

47869 RYON, L. H. Experiences in developing an order buying program for stocker and feeder livestock. *Amer. Coop.* 22:622-624. 1950. 280.29 Am3A

47870 ST. JOSEPH STOCK YARDS. Fifty-eighth annual report; receipts and shipments of live stock at St. Joseph Stock Yards, South St. Joseph, Missouri, for year ending December 31, 1950; also summary for years 1893-1950. South St. Joseph, 1951. 20 p. 49.9 Sa24

47871 SAINT-QUENTIN, M. Comment acheter un bovin en toute connaissance de cause. *Rustica* 24:183. Mar.4, 1951. 14 R92

47872 SMITH, P. Balancing beef offerings and demand. *Corn Belt Livestock Feeder* 3(6):8,10-12. Mar. 1951. 280.38 C81

47873 SOUTH SAN FRANCISCO UNION STOCK-YARDS. The twenty-fourth annual livestock report, 1950. South San Francisco, 1951. 4 p. 49.9 So84

47874 STOCKTON UNION STOCKYARDS. The seventeenth annual livestock report, 1950. Stockton, 1951. 3 p. 49.9 St63

47875 TAYLOR, L. The changing picture; 'doing' horses are the ticket for '51. *West. Livestock J.* 29(16):81,83,85. Feb.15, 1951. 6 F2278

The market and outlook in the Southwest.

47876 TAYNTON, M. How you can sell by phone. *Amer. Kennel Gaz.* 68(3):17,212. Mar.1951. 48.8 Am3 Dogs.

47877 TUCKER, H. Marketing hogs and sheep through the Spokane stockyards. *Wash. Agr. Expt. Sta. Pop. B.* 197,15 p. Feb.1950. 100 W27E

47878 UNION STOCK YARD AND TRANSIT CO. OF CHICAGO. Eighty-fifth annual live stock report; year 1950 and summary for years 1865 to 1950. Chicago, 1951. 18 p. 49.9 C43

47879 WALTON, R. H. Opportunities and pattern for further development of cooperative livestock marketing in the United States: Midwestern States. *Amer. Coop.* 22:647-651. 1950. 280.29 Am3A

47880 WEISS, F. Das vieh- und fleischgesetz. *Württemb. Wchnbl. f. Landwirt.* 118:194-195. Mar.10, 1951. 18 W96

Market regulation.

47881 WILSON, P. O. Objectives for live stock marketing cooperatives. *Amer. Coop.* 22:611-613. 1950. 280.29 Am3A

#### Grading, Inspection, Standardization, and Quality

47882 LEONT'EV, I. On improving the quality of raw hides. (In Russian.) *Miasnafa Indus. SSSR.* 21(5):14-20. Sept./Oct.1950. 50.8 M58

47883 LEPESHKIN, V. I. Quality of silver-black fox skins of the fur animal farms on collective farms in Tiumen Region. (In Russian.) *Karakulevodstvo i Zverovodstvo* 3(5):55-58. Sept./Oct.1950. 49 K14

47884 LOMBARD, C. Tests et méthodes simples à l'usage des praticiens en hygiène des denrées alimentaires. *Rev. de Méd. Vét. [Toulouse]* 101:569-573. Nov. 1950. 41.8 R32

Meat inspection.

47885 MCAULIFFE, W. S. Port Lincoln Baconer Carcass Competition. *So. Austral. Dept. Agr. J.* 54:285, 290. Jan.1951. 23 So84

47886 MARCATO, A., and CIANI, G. Modern viewpoints in the inspection of foods of animal origin. (In Italian.) *Prog. Vet.* 6:142-144,146-150. Mar.1, 1951. 41.8 P942

47887 MILLER, A. R. Meat hygiene. Philadelphia, Lea & Febiger, 1951. 420 p. 50 M61

Inspection.

47888 O'FLAHERTY, F., and JACOBS, J. Better hides and skins. *Shoe & Leather Rptr.* 261(11):13-16. Mar.17, 1951. 303.8 Sh7

47889 THOMAS, H. W. Common causes of leather defects. (Condensed.) *Leather Mfr.* 62(4):26-28,39. Apr. 1951. 303.8 L484

47890 TRAWIŃSKI, A. Meat inspection from the point of view of the 6-yearly plan. (In Polish.) *Med. Weter.* 6:738-740. Dec.1950. 41.8 M463

Poland.

47891 ZHIVODEROV, S. P. From the history of veterinary sanitary inspection [of meat production in U.S.S.R.]. (In Russian.) *Veterinariia* 27(11):34-37. Nov. 1950. 41.8 V6426

#### Prices, Price Control, and Rationing

47892 BERKA, P. Neuregelung der preise für tierliche rohstoffe. *Versorgung* 5:34. Feb.1951. 280.8 V61

Russian Zone of Germany.

47893 LONG, W. H. Three questions for Mr. Williams. *Farmers Wk. [London]* 34(11):51. Mar.16, 1951. 10 F2226

The British system of price control and its effect on the beef cattle industry.

47894 ROUY, H. Le marché du porc peut et doit revenir à la stabilité. *J. de la France Agr.* 7:1345,1347. Feb.2/8, 1951. 14 J829

Prices.

47895 SCHAARS, M. A., and BRAY, R. W. Pricing veal calves. *Wis. Agr. Expt. Sta. Res. B.* 170,64 p. Nov. 1950. 100 W75

47896 U. S. PRODUCTION AND MARKETING ADMIN. Cattle and calves: monthly average price per 100 pounds, Kansas City, 1950. Washington, 1951. 2 p. 1.9422 L8C29Ka

Similar reports from other markets.

47897 U. S. PRODUCTION AND MARKETING ADMIN. Cattle and calves: weekly average price per 100 pounds, North Portland, 1949. Washington, 1951. 2 p. 1.9422 L8C29Npw

Similar reports from other markets.

47898 U. S. PRODUCTION AND MARKETING ADMIN. Cured pork cuts and lard: monthly average wholesale price per 100 pounds, Chicago, 1950. Washington, 1951. 1 p. 1.9422 M8C92Ch

47899 U. S. PRODUCTION AND MARKETING ADMIN. Dressed meats—beef—monthly average wholesale price per 100 pounds, Chicago, 1950. Washington, 1951. 2 p. 1.9422 M8W52Bc

47900 U. S. PRODUCTION AND MARKETING ADMIN. Dressed meats—lamb and mutton—monthly average wholesale price per 100 pounds, Chicago, 1950. Washington, 1951. 1 p. 1.9422 M8W52Lc

47901 U. S. PRODUCTION AND MARKETING ADMIN. Dressed meats—pork cuts—monthly average wholesale price per 100 pounds, Chicago, 1950. Washington, 1951. 1 p. 1.9422 M8W52Pc

47902 U. S. PRODUCTION AND MARKETING ADMIN. Hogs: monthly average price per 100 pounds, Sioux City, 1950. Washington, 1951. 1 p. 1.9422 L8H67S1

Similar reports from other markets.

47903 U. S. PRODUCTION AND MARKETING ADMIN. Sheep and lambs: monthly average price per 100 pounds, Omaha, 1950. Washington, 1951. 1 p. 1.9422 L8Sh3Om

Similar reports from other markets.

#### Processing and Storage

47904 ALEKSEEV, N. Production of meat and sausage is increasing. (In Russian.) *Miasnafa Indus. SSSR.* 21(5):45. Sept./Oct.1950. 50.8 M58

At meat combines in Moscow Region.

47905 AZARKH, Z. Our experience in extending the refrigerating capacity. (In Russian.) *Miasnafa Indus. SSSR.* 21(5):43-44. Sept./Oct.1950. 50.8 M58

Sverdlovsk Meat Combine.

47906 BARSEL, A., and LIBERMAN, S. On the use of new equipment in melting [animal] fats. (In Russian.) *Miasnafa Indus. SSSR.* 21(5):26-30. Sept./Oct.1950. 50.8 M58

47907 BOREN, F. W., and MACKINTOSH, D. L. Freezing and storing of meat in a home storage unit. *Quick Frozen Foods* 13(9):143-144. (To be cont.) Apr. 1951. 389.8 Q4

47908 BREWSTER, J. A. Chilled beef production, its past value to the meat trade and future prospects. *Meat Trades J.* 141:586,588,590. (To be cont.) Mar.15, 1951. 50.8 M46

47909 CARLEVARO CASTELLA, C. H. Carnes congeladas destinadas a la alimentación humana. *Hereford* 17:72-74. Feb.1951. 43.8 H42

47910 CHEN, P. S. Syntans and newer tanning methods. *Leather Mfr.* 62(3):9-10;(4):17-18. (Cont.) Mar.-Apr.1951. 303.8 L484



47911 DAVIS, R. W. Displaying meat on ice. Ice & Refrig. 120(3):42. Mar.1951. 295.8 Ic2

47912 FORCE, L. T. Beef dressing on the rail. Canad. Food Indus. 22(4):20-21,23,25. Apr.1951. 286.83 C166

47913 GOETZ, A. W. Leather and tanning processes. Leather Mfr. 62(3):22,24-26,28-29. (Concl.) Mar.1951. 303.8 L484

47914 HARDENBERGH, W. An industry behind the meat counter. In Sayres, P., ed. Food marketing, p.269-284. New York, McGraw-Hill, 1950. 286.2 Sa9  
The meat packing industry.

47915 LUR'E, M., and LYKOV, M. Drying bone glue by the pulverization method. (In Russian.) Mfasnafa Indus. SSSR. 21(5):31-36. Sept./Oct.1950. 50.8 M58

47916 MCSHANE, J. P. Meat packing. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.293-307. New York, 1951. 295.9 Am32Ref  
47917 MANN, C. The storage of leather. Shoe & Leather Rptr. 261(8):32-33. Feb.24,1951. 303.8 Sh7

47918 PELEEY, A. Operation of the sausage automatic machines. (In Russian.) Mfasnafa Indus. SSSR. 21(5):21-25. Sept./Oct.1950. 50.8 M58

47919 PROST, E. The nature of meat pickling in the light of recent studies. (In Polish.) Med. Weter. 6:602-604. Oct.1950. 41.8 M463

47920 RAMSBOTTOM, J. M. Freezing of meats. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.47-58. Ref. New York, 1951. 295.9 Am32Ref

47921 RIEDER, R. M., and others. Canaigre investigations. VIII-IX. Amer. Leather Chem. Assoc. J. 46:188-209. Mar.1951. 303.9 Am32

VIII, Preparation of tanning extracts by continuous countercurrent extraction, by R. M. Rieder, N. F. Roger, G. W. M. Phillips, and R. Askew; IX, Laboratory tannage of heavy leather, by C. W. Beebe, W. S. Kip, II, and J. S. Rogers.

47922 RIVIERE, J., and PIED, O. Influence du bicarbonate de sodium dans la transformation des nitrates en nitrites dans les salaisons. Indus. Agr. et Aliment. 68:49-54. Jan./Feb.1951. 383 As7

47923 ROBINSON, D. M. Meat packing and processing. O. A. C. Review 63:200,226. Jan.1951. 276.8 On8

47924 SAFONOV, S. Production of animal feeds at Leningrad Meat Combine. (In Russian.) Mfasnafa Indus. SSSR. 21(5):41-42. Sept./Oct.1950. 50.8 M58

Processing of livestock by-products.  
47925 SAINT-PRIEST, P. Tannage sans tanin. Rev. Tech. des Indus. du Cuir 43:5-9. (Cont.) Jan.1951. 303.8 C89

47926 SEN, S. N. Bating agents for hides. IV. Tanner 5(9):23-25. Feb.1951. 303.8 T15

47927 SMITH, F. H., and others. Effect of crystal size on salt penetration of pork loins. Food Res. 16:166-168. Mar./Apr.1951. 389.8 F7322

T. N. Blumer, A. C. Williams, and W. E. Tyler, joint authors.

47928 SWITZERLAND. BUNDESAMT FÜR INDUSTRIE, GEWERBE UND ARBEIT. Die schlachtungen im Jahre 1950 in 43 städten. Schweiz. Milchztg. 77:159. Mar.23,1951. 44.8 Sch92

Statistics.

47929 TARANINA, S. Engineer Kovalev's method at the Moscow Meat Combine. (In Russian.) Mfasnafa Indus. SSSR. 21(5):5-11. Sept./Oct.1950. 50.8 M58

Processing of livestock.

47930 THEIS, E. R., NAYUDAMMA, Y., and KRITZINGER, C. C. Studies in chrome tanning. XVII. Amer. Leather Chem. Assoc. J. 46:220-248. Ref. Apr.1951. 303.9 Am32

Includes discussion.

47931 THISTLE, M. W., PEARCE, J. A., and COOK, W. H. Refrigerated storage of dehydrated animal products. In American Society of Refrigerating Engineers. Refrigerating data book, ed.3, p.361-367. Ref. New York, 1951. 295.9 Am32Ref

47932 TRAWNSKA, J. The role of technology in the meat industry. (In Polish.) Med. Weter. 6:740-742. Dec. 1950. 41.8 M463

47933 VAN PELT, C. Controls must not harm tanners. Shoe & Leather Rptr. 261(10):17,19. Mar.10,1951. 303.8 Sh7

47934 VOYER, M. - Le dégraisage des peaux dans l'industrie de l'apprêt des fourrures. Rev. Tech. des Indus. du Cuir 43:1-5. Jan.1951. 303.8 C89

47935 WOOD, T. Home canning of meat and poultry. N. Y. Agr. Col. Cornell Ext. B. 810,16 p. Mar.1951. 275.29 N48E

## Statistics

47936 MEYER, E. Kamerad pferd in zahlen. Neue Mitt. f. die Landwirt. 6:133-134. Mar.3,1951. 18 N39 Germany.

47937 PETRUCCI, E. Classification of Italian cattle resources according to productive aptitudes and racial composition in observations in the years 1940 and 1947. (In Italian.) Allevatore 7(3):7. Jan.21,1951. 49 AL55

47938 U. S. BUR. OF AGRICULTURAL ECONOMICS. Numbers and value of livestock on North Carolina farms, January 1, 1951. Raleigh, 1951. 2 p. 1.941 H8L75

## OILS AND OILSEEDS

47939 ALLEN, R. R., and KUMMEROW, F. A. Factors affecting the stability of highly unsaturated fatty acids. III. The autoxidation of methyl eleostearate. Amer. Oil Chem. Soc. J. 28:101-105. Ref. Mar.1951. 307.8 J82

47940 ANDREWS, W. G. Drying oils—past, present and future. Paint, Oil & Chem. Rev. 114(8):10-11. Apr. 12,1951. 306.8 P16

47941 ASTORGA C., M. Nuestro país produce ya casi todo el aceite comestible que consume. Campesino [Santiago] 83:21,23-25. Jan.1951. 9.3 So12

47942 BARBER, L. A., and HALL, M. D. Citronella oil, Java and Ceylon. Ceylon Trade J. 15:714-716. Dec. 1950. 286.8 C333

47943 BATTERSON, V. C., and POTTS, W. M. The analysis and characterization of the oil from the seed of *Stillingia sylvatica*. Amer. Oil Chem. Soc. J. 28:87-88. Mar.1951. 307.8 J82

47944 BAUDRILLART, P. L'huile d'olive, cet admirable don de la nature. Almanach Agr. Tunisie 1951: 233-242. 24 AL6

47945 BENDLER, A. J., and MCNEIL, D. Solvent extraction of cottonseeds with hexane and water as co-solvents. Amer. Oil Chem. Soc. J. 28:164-170. Ref. Apr. 1951. 307.8 J82

47946 BITTER, B. Polarography of some essential oils. Collect. Czechoslovak Chem. Commun. 15:677-690. Ref. 1950. 385 C68

47947 BLAHA, J. La maturation et la teneur en sucre dans les grains des raisins. (In Czech.) Ceskoslov. Akad. Zeměděl. Sborn. 23:224-232. 1950. 19.5 C332C French summary.

47948 BOWES, P. C., and THOMAS, A. Spontaneous heating and ignition in stored palm kernels. IV-V. J. Sci. Food & Agr. 2:65-91. Ref. Feb.1951. 382 So12

IV, by P. C. Bowes and A. Thomas; V, by P. C. Bowes, R. B. Bryan, C. E. Burnett, N. C., and WEARN, R. B. Isolation of d-3-octanol from American oil of spearmint. Amer. Chem. Soc. J. 73:1848. Apr.1951. 381 Am33J

47950 BUNGER, W. B., and KUMMEROW, F. A. A comparison of several methods for the separation of unsaponifiable material from carnauba and sorghum grain waxes. Amer. Oil Chem. Soc. J. 28:121-123. Ref. Mar. 1951. 307.8 J82

47951 BUNTING, E. S. Linseed. World Crops 3:95-98. Mar.1951. 281.8 W892

The Industry.

47952 CASTELLO GODOY, M., and SALA CATALA, F. Revalorización del aceite de orujo y del orujo extractado. Ion 11:17-21. Jan.1951. 385 Io6

47953 CATTANEO, P., KARMAN DE SUTTON, G., and RODRIGUEZ, J. Aceites de oliva de producción nacional. III. Composición química en ácidos grasos de aceites de orujo de oliva. Asoc. Quím. Argentina. An. 38: 383-400. Ref. Dec.1950. 385 So1A

47954 COLLURA, A. M. Esencias cítricas. Ecuador. Segunda Zona. Cám. de Agr. B. 4(19):17-18. Oct./Dec. 1950. 9.5 Ec95B

47955 CORNELL, D., and KATZ, D. L. Flow rates through soybean flakes. Indus. & Engin. Chem. 43:992-996. Apr.1951. 381 J825

Oil extraction.

47956 DAVIDSOHN, A. Some observations on the solubility of sulphonated castor oil in organic solvents. Amer. Oil Chem. Soc. J. 28:84-85. Mar.1951. 307.8 J82

47957 DUTTON, H. J., and others. The flavor problem of soybean oil. VIII-IX. Amer. Oil Chem. Soc. J. 28: 115-118,121. Mar.1951. 307.8 J82

VIII, Linolenic acid, by H. J. Dutton, C. R. Lancaster, C. D. Evans, and J. C. Cowan; IX, Organoleptic identification and probability analysis, by C. D. Evans, E. B. Lancaster, H. J. Dutton, and H. A. Moser.



- 47958 EL RIDI, M. S., EL AYYADI, M., and AZOUZ, M. W. Über das vorkommen eines die laktation fördernden stoffes im foenum-graecum-öl (Trigonella foenum graecum). Hoppe-Seyler's Z. f. Physiol. Chem. 286:260-263. Feb.1951. 384 Z38
- 47959 EL RIDI, M. S., AZOUZ, W. M., and ABD EL HAY. Versuche zur Isolierung des die laktation fördernden stoffes in foenum-graecum-öl (Trigonella foenum graecum). Hoppe-Seyler's Z. f. Physiol. Chem. 286:256-259. Feb.1951. 384 Z38
- 47960 FALKENBERG, A. J. Solvent extraction of vegetable oil. Cotton Gin & Oil Mill Press 52(7):29-30. Mar.31,1951. 304.8 C822  
Also in Amer. Paint J. 35(30):66,68,70. Apr.16,1951. 306.8 Am32
- 47961 FESNEAU, M. Contribution à l'étude des huiles essentielles espagnoles. Parfumerie Mod. 42(20):33-47. Sept./Oct.1950. 308.8 P213
- 47962 FESNEAU, M. Etude du cypres sempervirens espagnol. Indus. de la Parfumerie 6:60-62. Ref. Feb. 1951. 308.8 In2  
Analysis.
- 47963 FINCKE, H. Einige fachliche richtigstellungen über das verhalten von kakaobutter. Zucker- u. Süßwaren-Wirt. 3(18):33-34. Sept.20,1950. 286.86 Z3
- 47964 FLETCHER, A. L. Know your ingredients; bakery fats. Brit. Baker 122:356-357. (Cont.) Mar.9, 1951. 389.8 B772
- 47965 FLETCHER, A. L. Know your ingredients; vegetable fats. Brit. Baker 122:171-172,200-201. (Cont.) Feb.2-9,1951. 389.8 B772
- 47966 GATTEFOSSE, J., and IGOLEN, G. Contribution à l'étude de la flore aromatique du Maroc; quelques essences rares ou inconnues. Parfumerie Mod. 42(20): 53-57. Sept./Oct.1950. 308.8 P213  
Includes essential oils.
- 47967 GERY, J. G. Glirazol y algodonoero para producir aceite. Vida Agr. [Lima] 28(326):9,11,13-14. Jan. 1951. 9.8 V66  
Production in Peru.
- 47968 GIL MONTERO, J. El aceite de soja en la industria química. Rev. Indus. y Fabrill 5:655-657. Nov. 1950. 297.8 R322
- 47969 GOLDEN, M. J. Peroxide test method for determining oil and fat stability. Amer. Pharm. Assoc. J. Sci. Ed. 40:119-122. Ref. Mar.1951. 396.9 Am33J
- 47970 GORBACH, G. Die mikrochemie auf dem fettgebiet. Fette u. Seifen 53:3-9. Ref. Jan.1951. 384 C422
- 47971 GRIESBECK, A. Ölfruchtbau erwacht zu neuem leben. Neue Mitt. f. die Landwirt. 6:147-148. Mar.10, 1951. 18 N39  
Sweden.
- 47972 GRUJET, E. A. Industrialización de los rastrojos del lino oleaginoso. Soc. Rur. Argentina. An. 84(10):20-22. Oct.1950. 9 Sol
- 47973 GRUMMITT, O., ARTERS, A., and STEARNS, J. Acetone numbers of thermally polymerized drying oils. Amer. Oil Chem. Soc. J. 28:141-145. Ref. Apr.1951. 307.8 J82
- 47974 GUENTHER, E. Recent developments in essential oils. 1. Soap & Sanit. Chem. 27(3):39-42,129. Mar. 1951. 307.8 Sol2
- 47975 HALL, H. C. The real facts about margarine. Butter-fat [Vancouver] 29:5. Apr.1951. 44.8 B98
- 47976 HILDITCH, T. P. The constitution and availability of some vegetable (drying) oils. (Sum.) Roy. Inst. Chem. J. 74:141-142. Apr.1950. 382 In7
- 47977 HONN, F. J., BEZMAN, I. I., and DAUBERT, B. F. Autoxidation of drying oils adsorbed on porous solids. Amer. Oil Chem. Soc. J. 28:129-133. Ref. Apr. 1951. 307.8 J82
- 47978 HORN, L. J. Applied science energizing the cottonseed processing industry. Tex. Engin. Expt. Sta. News 2:3-6. Mar.1951. 290.9 T31N
- 47979 HUNTER, I. R. Oxygen-absorption apparatus for measuring induction periods of fats. Amer. Oil Chem. Soc. J. 28:160-161. Apr.1951. 307.8 J82
- 47980 KAPPELMEIER, C. P. A., NEUT, J. H. VAN DER, and BOKHOUT, B. Methods of analysis for styrenated oils and alkyl resins. I-II. (In Dutch.) Chem. Weekbl. 47:157-158,159-160. Mar.17,1951. 385 C42
- 47981 KAUFMANN, H. P., and BUDWIG, J. Die papier-chromatographie auf dem fettgebiet IV: die radio-metrie der lösäure. Fette u. Seifen 53:69-73. Feb.1951. 384 C422
- 47982 KHAN, N. A., BROWN, J. B., and DEATHER-AGE, F. E. Autoxidation of methyl oleate, methyl stearate, and methyl 9,10-dideuterooleate. Amer. Oil Chem. Soc. J. 28:105-109. Ref. Mar.1951. 307.8 J82
- 47983 KIRMAN, M., and UYGURER, S. La Fédération Internationale d'Oleiculture. (In Turkish.) Türkiye Cumhuriyeti Ziraat Bankası. Uç Ayda Bir Çıkar 1950:128-132. Apr./June 1950. 280.9 T842
- 47984 KUKEN, K. A. Availability of amino acids in cottonseed products. (Abs.) Fed. Amer. Soc. Expt. Biol. Fed. Proc. 10(1,pt.1):211-212. Mar.1951. 442.9 F31P
- 47985 MAJORELLE, A. Les matériels modernes d'oléification et l'équipement des nouvelles huilleries co-opératives. B. Econ. et Social de la Tunisie 49:31-44. (Cont.) Feb.1951. 280.8 B874
- 47986 MAX, R. A., and DEATHERAGE, F. E. The synthesis and autoxidation of 8,8,11,11-tetradeutero-cis-9-octadecene. Amer. Oil Chem. Soc. J. 28:110-114. Ref. Mar.1951. 307.8 J82
- 47987 MEMPHIS (TENN.) MERCHANTS EXCHANGE CLEARING ASSOCIATION. Production of cotton, cottonseed, soybeans and other products in the United States: crop years 1947, 1948 and 1949. Memphis,1950. 1 p. 287 M514P
- 47988 MIEGE, E. Après la nouvelle hausse de l'arachide les oléagineux métropolitains ont de l'avenir. Inform. Marocaine 260,1.e.530:1,4. Mar.10,1951. 281.8 In3
- 47989 MIKUSCH, J. D. VON. A test for dehydrated castor oil involving the formation of 10,12-octadecadienol acid upon alkali-isomerization. Amer. Oil Chem. Soc. J. 28:133-137. Ref. Apr.1951. 307.8 J82
- 47990 NEHRING, K., and SCHIEMANN, R. Beiträge zur kenntnis der süßslupine. II. Der aufbau des fettes der süßslupine. Fette u. Seifen 53:10-15. Jan.1951. 384 C422
- 47991 O'CONNOR, R. T., FIELD, E. T., and SINGLETON, W. S. The infrared spectra of saturated fatty acids with even number of carbon atoms from caproic, C<sub>6</sub> (hexanoic), to stearic, C<sub>18</sub> (octadecanoic), and of their methyl and ethyl esters. Amer. Oil Chem. Soc. J. 28:154-160. Ref. Apr.1951. 307.8 J82
- 47992 ORGANISATION FOR EUROPEAN ECONOMIC COOPERATION. FOOD AND AGRICULTURE COMMITTEE. Oil crops in western and southern European countries; report by United States specialists. Paris, 1950. 103 p. 77 Or3
- 47993 PALM oil production in Nigeria. United Africa Co. Statist. & Econ. Rev. 7:1-11. Mar.1951. 280.9 Un372
- 47994 PRAKASH, O., RAM, A., and PRAKASH, B. Purification of mustard oil contaminated with argemone oil. Cur. Sci. 20:16-17. Jan.1951. 475 Sci23
- 47995 PURR, A. Über das verhalten des säuregrades beim entblitterungsprozess von sojabohnen. Z. f. Lebensmittel.-Untersuch. u. -Forsch. 92:100-101. Feb.1951. 384 Z39
- 47996 REIF, E. O. Oil production from African oil palms in Honduras. Amer. Oil Chem. Soc. J. 28:152-154. Apr.1951. 307.8 J82
- 47997 REMINGTON, J. S. Drying oils, thinners and varnishes. Ed. 2. London, Abacus, 1950. 170 p. 306 R28
- 47998 REUTHER, C. G., JR., and others. Solvent extraction of cottonseed and peanut oils. VIII. Effects of moisture on the preparation and flaking of cottonseed. Amer. Oil Chem. Soc. J. 28:146-149. Apr.1951. 307.8 J82
- R. D. Westbrook, W. H. Hoffman, Jr., H. L. E. Vix, and E. A. Gastrock, joint authors.
- 47999 RICHASON, B. F., JR. Britain's groundnut scheme in East Africa. J. Geog. 50:150-158. Apr.1951. 278.8 J82
- 48000 RILEY, J. P. The seed fat of Parinarum laurinum. II. Component glycerides of the seed fat. Chem. Soc. J. 1951:291-293. Feb.1951. 382 L84J
- 48001 ROMANO, E. The content in DDT, chlordane and hexachlorocyclohexane of oils coming from olive trees which have undergone treatment against the olive fly [Dacus oleae]. (In Italian.) Ann. della Sper. Agr. (n.s.) 5:289-295. 1951. 16 An76  
English summary.
- 48002 SALETORE, S. A., and HARKARE, N. H. The influence of non-glyceridic constituents on autoxidative rancidity of sesame oil. Cur. Sci. 20:10-11. Jan.1951. 475 Sci23
- 48003 SCHEIBER, J. Zur frage der "leindöl" trocknung. Fette u. Seifen 53:16-22. Ref. Jan.1951. 384 C422
- 48004 SHAHANI, H. S., and others. The Buffalo gourd, a potential oilseed crop of the Southwestern Drylands. Amer. Oil Chem. Soc. J. 28:90-95. Ref. Mar.1951. 307.8 J82
- F. G. Dollear, K. S. Markley, and J. R. Quinby, joint authors.



- 48005 SNOEP, J., WIEL, E. VAN DE, and ZWART, M. W. Research on the fat consumption in Netherlands during the periods 1933-1943 and 1946-1949. (In Dutch.) Voeding 12:54-88. Feb.15,1951. 389.8 V85
- 48006 TOUCHARD, D. Les oléagineux métropolitains. Agr. Prat. 115:81-82. Feb.1951. 14 J82
- The industry.
- 48007 TOYAMA, Y. Die fettindustrie in Japan. Fette u. Seifen 53:65-69. Feb.1951. 384 C422
- 48008 TRIGG, R. S. The fats and oil situation. (Sum.) Butchers Advocate 129(10):8-9. Mar.7,1951. 286.85 B97
- 48009 U. S. NORTHERN REGIONAL RESEARCH LABORATORY. List of publications, vegetable oils and related subjects. U. S. Bur. Agr. & Indus. Chem. AIC-184 (sup. 3), 2 p. 1950. 1.932 A2Ag82
- 48010 U. S. PRODUCTION AND MARKETING ADMIN. Soybeans needed for defense, 1951. U. S. D. A. PA-153, 4 p.-folder. Mar.1951. 1 Ag84Pro
- 48011 VANNECK, C., LONCIN, M., and JACQMMAIN, D. Considérations sur l'altération de l'huile de palme. Belgium. Min. des Colon. B. Agr. du Congo Belge 42:57-64. Mar.1951. 24 K83
- English summary.
- 48012 VAN SLUIS, K. J. H. The higher alkyl gallates as antioxidants. Food Mfr. 26:99-101. Ref. Mar.1,1951. 389.8 F736
- For oils and fats.
- 48013 WILBAUX, R. Notes on essence of vetiver of the Belgian Congo. (In Italian.) Riv. Ital. Essenze-Pro-fumi-Plante Officinall-Olii Veg.-Saponi 32:600-602. Dec.15,1950. 308.8 R52
- 48014 WILEY, R. H., and CAGLE, A. W. Lespedeza seed oil. II. Amer. Oil Chem. Soc. J. 28:89-90. Mar. 1951. 307.8 J82
- 48015 WINGARD, M. R., and PHILLIPS, R. C. Solvent extraction. IV. The effect of temperature on extraction rate. Amer. Oil Chem. Soc. J. 28:149-152. Ref. Apr. 1951. 307.8 J82
- 48016 YAZICIOGLU, T. Hülles végetales en Turquie. (In Turkish.) Türkiye Cumhuriyeti Ziraat Bankasi. Uç Ayda Bir Çıkar 1950:87-106. Ref. Apr./June 1950. 280.9 T842
- 48017 YAZICIOGLU, T. Zusammensetzung und beschaffenheit der avocadbirnen aus Adana (Türkei) und die eigenschaften und kennzahlen des daraus gewonnenen öles. Fette u. Seifen 53:9-10. Jan.1951. 384 C422
- ### POULTRY AND POULTRY PRODUCTS
- 48018 ALBERTI. Die geflügelwirtschaft befindet sich heute in schwerster krise. Landwirtbl. Weser-Ems 98: 165-166. Feb.22,1951. 18 L2345
- 48019 ALP, H. H. Production shifts meet market demands; conditions look good for the producer of quality products. Amer. Poultry J. 82(2):6,44. Feb.1951. 47.8 Am32
- 48020 BAUM, E. L., and WALKUP, H. G. Economic considerations in fryer production and marketing in the Pacific Northwest. J. Farm Econ. 33:90-107. Feb.1951. 280.8 J822
- 48021 BENJAMIN, E. W. Too many 4-F eggs! Hatchery & Feed 25(3):8,74-75. Mar.1951. 47.8 H28
- 48022 BENOÎT, C. E. Parlons de dindons. Avicult. Québecois 6(2):20-21. Feb.1951. 47.8 Av55
- Situation in 1951.
- 48023 BEVARD, G. E. Cache valley [Utah] turkeys and the man who pioneered the industry. West. Farm Life 53(8):7,35. Apr.15,1951. 6 R153
- 48024 BLAVATI, F. Eggs within the picture of food rationing. (In Italian.) Zootec. e Vet. 5:1000-1004. Dec. 1950. 41.8 Z7
- 48025 BLAXLAND, J. D., and BLOWERS, A. J. Salmonella typhimurium infection in duck eggs as a cause of human food poisoning. Vet. Rec. 63:56-59. Jan.27, 1951. 41.8 V641
- 48026 BOUTHILET, R. J. Chicken flavor: the fractionation of the volatile constituents. Food Res. 16:137-141. Mar./Apr.1951. 389.8 F7322
- 48027 BRANT, A. W. Tomorrow's egg. Amer. Egg & Poultry Rev. 12(4):16,18,20,22. Apr.1951. 47.8 Am38
- 48028 BROADBENT, E. E. The demand for quality eggs in the Chicago retail trade. Mich. U. Microfilm Abs. 11:5-8. 1951. 241.8 M58
- 48029 BROCKMAN, E. H. The western pooling association. Amer. Coop. 22:493-495. 1950. 280.29 Am3A
- Egg marketing.
- 48030 CHINESE mud-wrapped duck eggs considered gourmet delicacy. Amer. Egg & Poultry Rev. 12(4):8-9. Apr.1951. 47.8 Am38
- 48031 CLINGER, C., and others. The influence of pasteurization, freezing, and storage on the functional properties of egg white. Food Technol. 5:166-170. Ref. Apr.1951. 389.8 F7398
- A. Young, I. Prudent, and A. R. Winter, joint authors.
- 48032 CORREA DE JESUS, D. Preservation of eggs. (In Portuguese.) Soc. Rur. Bras. Rev. 31(362):34-35. Jan.1951. 9.2 B733
- 48033 CUSHMAN, H. E. What effect does shipping have on chick mortality? Mont. Farmer-Stockman 36(14): 38-39. Mar.15,1951. 6 M764
- 48034 DARRAH, L. B. Is there a "future" in your future? Hatchery & Feed 25(3):16,62,64-65. Mar.1951. 47.8 H28
- Hedging in hatching eggs.
- 48035 DAWSON, L. E., DAVIDSON, J. A., and SHEP-PARD, C. C. Farm practices and egg quality. I. Factors affecting quality of new laid eggs. Mich. Agr. Expt. Sta. Q. B. 33:229-239. Ref. Feb.1951. 100 M58S
- 48036 DISPOSING of inedible eggs to the tanning trade. Amer. Egg & Poultry Rev. 12(4):12,14. Apr.1951. 47.8 Am38
- 48037 ECHEVERRIA, J. La avicultura en el Uruguay. Uruguay. Min. de Ganad. y Agr. B. Inform. 7(359):19-20. Feb.15,1951. 9.9 G15B
- 48038 ELLS, M. Reasons for more poultry in the Annapolis Valley. Canad. Poultry Rev. 75(4):23-25. Apr.1951. 47.8 C16
- 48039 FOSTER, C. Eggs need a lot of selling when off ration. Poultry [London] 108:190. Mar.6,1951. 47.8 P889
- 48040 GERICKE, A. M. M. The production and marketing of eggs. Union So. Africa. Dept. Agr. B. 307,36 p. 1950. 24 S684P
- Composition, grading, and marketing.
- 48041 GOBLE, J. W., and FILLEY, H. C. Marketing poultry and eggs in Nebraska. Nebr. Agr. Expt. Sta. B. 398,31 p. June 1950. 100 N27
- 48042 GODFREY, G. F., THAYER, R. H., and THOMPSON, R. B. Broiler growing can be profitable. Okla. Agr. Expt. Sta. B. B-365.6 p. Feb.1951. 100 Ok4
- 48043 GORESLINE, H. E., and others. In-plant chlorination does a 3-way job. (Condensed.) U. S. Egg & Poultry Mag. 57(4):12-13,29-31. Apr.1951. 286.85 Eg3
- M. A. Howe, E. R. Baush, and M. F. Gunderson, joint authors.
- In poultry processing.
- 48044 GORIZONTOVA, E. Mechanical plucking of poultry. (In Russian.) Miasnafa Indus. SSSR. 21(5):83-86. Sept./Oct.1950. 50.8 M58
- 48045 GWIN, J. M. The sub-scald method of dressing poultry, its possibilities and limitations. Md. Poultry Ybk. 1951:87. 47.9 M36
- 48046 HADELER, W. D. How the egg industry can meet today's responsibilities. Calif. Grocers Advocate 56(10):14,30. Mar.9,1951. 286.28 C12
- 48047 HARTSELL, S. E. The growth initiation of bacteria in defrosted eggs. Food Res. 16:97-106. Ref. Mar./Apr.1951. 389.8 F7322
- 48048 HAWES, R. C. Egg of Tomorrow [contest]. Md. Poultry Ybk. 1951:88. 47.9 M36
- 48049 HERTEL, J. Poultry in Australia. Co-op. Poultryman 16(4):5. Apr.1951. 47.8 C782
- 48050 HINDS, R. H., JR. Selecting show eggs. Md. Poultry Ybk. 1951:19. 47.9 M36
- 48051 HOFFMANN, E., and GWIN, J. M. Successful broiler growing. Ed. 2. Mount Morris, Ill., Watt Pub. Co., 1951. 256 p. Ref. 47 H674
- Includes care.
- 48052 HULME, L. L. Youngblood's Texas' frozen fryer empire. Frosted Food Field 12(2):18. Feb./Mar. 1951. 389.8 F922
- 48053 HUME, D. L. Armed services' requirements of chicken, turkey and eggs. Amer. Egg & Poultry Rev. 12(3):24,26,28,62-63. Mar.1951. 47.8 Am38
- 48054 HUSSEMAN, D. L., and WALLACE, M. A. Studies on the possibility of the transmission of Salmonella by cooked fowl. Food Res. 16:89-96. Ref. Mar./Apr.1951. 389.8 F7322
- 48055 JANKOWSKI, B. Wert und grenzen internationaler prelsvergleiche. Eier-, Wild-, Geflügel- u. Honig-Markt 3(5):1-2. Feb.1,1951. 280.38 E13
- Eggs.
- 48056 JORGENSEN, A. T. How to sell frozen poultry in Denmark. Frosted Food Field 12(2):31. Feb./Mar. 1951. 389.8 F922



- 48057 KANTNER, A. H. Spread between prices of live poultry. N. Y. Agr. Col. Farm Econ. 179:4653-4654. Mar. 1951. 280.8 C812
- 48058 KARPOFF, E. Ceilings won't restrict shell egg storage. Amer. Egg & Poultry Rev. 12(4):24, 26. Apr. 1951. 47.8 Am38
- 48059 KOLOSKOV, M. An improved yolk separator. (In Russian.) Mfasnafa Indus. SSSR. 21(5):94. Sept./Oct. 1950. 50.8 M58
- 48060 KOONZ, C. H. Poultry and eggs. In American Society of Refrigerating Engineers. Refrigerating data book, ed. 3, p. 59-73. Ref. New York, 1951. 295.9 Am32Ref Refrigeration and freezing.
- 48061 KUMPE, J. O. The accomplishments and problems of broiler cooperatives. Amer. Coop. 22:523-525. 1950. 280.29 Am3A
- 48062 LAHAYE, J. A. Comment fonctionne programme de soutien des prix pour les oeufs en 1951. Avicult. Québécois 6(2):19. Feb. 1951. 47.8 Av55
- 48063 LAHAYE, J. A. Expérience sur le traitement à l'huile des oeufs destinés à l'entreposage en 1950. Avicult. Québécois 6(3):11. Mar. 1951. 47.8 Av55
- 48064 MCKNIGHT, W. R. Keeping market-wise on broilers. Md. Poultry Ybk. 1951:55. 47.9 M36
- 48065 MARGOLF, P. H. Poultry marketing improves with increased cooperation. Everybodys Poultry Mag. 56(4):12, 25-27. Apr. 1951. 47.8 F213P
- 48066 MARSDEN, S. J. Turkey broilers have a favorable future. Broiler Growing 2(4):12, 51-53. Apr. 1951. 47.8 B782
- 48067 MARYLAND poultry statistics. Md. Poultry Ybk. 1951:91-93. 47.9 M36  
Includes eggs.
- 48068 MILLER, H. I. Is there boom or gloom in the turkey trends? Turkey World 26(4):16-17, 71-75. Apr. 1951. 47.38 T84
- 48069 MOORE, J. S. '51 turkey outlook and possibilities. Fla. Poultry & Dairy J. 17(3):12, 16. Mar. 1951. 47.8 F66
- 48070 MORRIS, R. B. Egg products can compete with substitutes. (Condensed.) U. S. Egg & Poultry Mag. 57(4):16, 22-25. Apr. 1951. 286.85 Eg3
- 48071 NEUMANN, M. Drei berufsorganisationen helfen sich selbst. Eier-, Wild-, Geflügel- u. Honig-Markt 3(7):1. Feb. 15, 1951. 280.38 E13  
German egg grading.
- 48072 PETERSON, G. A. Dry cases and rooms steal eggs' moisture. News Farmer Coop. 18:21. Apr. 1951. 166.2 N47  
Warns cooperatives of quality programs with reference to egg storage.
- 48073 PODLEGAEV, M., and LIUTIKOVA, P. Freezing and storage of egg mixtures at low temperatures. (In Russian.) Mfasnafa Indus. SSSR. 21(5):86-88. Sept./Oct. 1950. 50.8 M58
- 48074 RISHER, F. W. Poultry progress in Florida and the United States. For Sale, Want & Exch. B. 3(7):1. Feb. 1, 1951. 280.38 F74
- 48075 SAMAT, M. Question de qualité du poulet de table. Réveil Agr. 60:57-58. Feb. 15, 1951. 14 R322  
Consumer preferences.
- 48076 SANBORN, L. D. The bargaining-type cooperative egg association. Amer. Coop. 22:504-512. 1950. 280.29 Am3A
- 48077 SCANLON, J. J. The auction association. Amer. Coop. 22:496-503. 1950. 280.29 Am3A  
Egg marketing.
- 48078 SMITH, H. Hatcherymen spread risks. Md. Poultry Ybk. 1951:27, 29. 47.9 M36
- 48079 STELLY, R., and BAKER, J. M. Seasonality in production and marketing practices of Louisiana egg producers. La. Agr. Expt. Sta. B. 447, 18 p. Aug. 1950. 100 L93
- 48080 STEWART, G. F. Egg storage. In American Society of Refrigerating Engineers. Refrigerating data book, ed. 3, p. 205-209. Ref. New York, 1951. 295.9 Am32Ref  
Cold storage.
- 48081 TINDALL, C. Three-pound broilers ready in 10 weeks; Missouri now produces more than 11 million of these birds a year. Mo. Rur. 92(6):5. Mar. 24, 1951. 6 R8891
- 48082 U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm production, disposition, cash receipts and gross income for chickens and eggs, 1949-1950, by E. S. Kimball, P. W. Smith, and R. F. Moore. Washington, 1951. 16 p. 1.9 Ec71Fpc
- 48083 U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm production, disposition, cash receipts and gross income for turkeys, 1949-1950. Washington, 1951. 8 p. 1.942 D22T84
- 48084 U. S. PRODUCTION AND MARKETING ADMIN. Total receipts of dressed poultry at Chicago, Illinois for year 1950. Chicago, 1951. 2 p. 1.9422 Po8T64  
Also report of receipts at New York and Los Angeles.
- 48085 U. S. PRODUCTION AND MARKETING ADMIN. Total receipts of eggs at Chicago, Illinois for year 1950. Chicago, 1951? 2 p. 1.9422 Po8T642  
Also report of receipts at New York.
- 48086 U. S. PRODUCTION AND MARKETING ADMIN. Total receipts of live poultry at Chicago, Illinois for year 1950. Chicago, 1951? 2 p. 1.956 A2T64
- 48087 URNER, F. E. Looking at the 1951 egg deal. Amer. Egg & Poultry Rev. 12(4):2-3. Apr. 1951. 47.8 Am38
- 48088 WALLACE, W. I buy my eggs graded because I make money on them. (Condensed.) U. S. Egg & Poultry Mag. 7(4):14-15, 26. Apr. 1951. 286.85 Eg3
- 48089 WELCH, R. F. Co-op campaign makes Vita-gold good as gold. Coop. Digest 2(9a):9, 23. Mar. 15, 1951. 280.28 C7896  
Egg marketing.
- 48090 WIGHTMAN, J. Displaying poultry on ice. Ice & Refrig. 120(3):41-42. Mar. 1951. 295.8 Ic2
- 48091 WINTER, A. R. What we know about egg cleaning methods. Amer. Egg & Poultry Rev. 12(4):49. Apr. 1951. 47.8 Am38
- 48092 WOLFE, T. K. Virginians are hatching, growing and selling turkeys the year round; most off season demand is for white broilers. Turkey World 26(4):11, 78-81. Apr. 1951. 47.38 T84
- 48093 ZWICK, C. J., and KING, R. A. Connecticut live poultry markets and marketing facilities. Amer. Egg & Poultry Rev. 12(3):40, 42-43. Mar. 1951. 47.8 Am38

## RUBBER AND RUBBER SUBSTITUTES

- 48094 BUIST, J. M. International standardization of rubber test methods: Akron, 1950. India-Rubber J. 120:451-454, 457-458. Ref. Mar. 24, 1951. 305.8 In21
- 48095 DIETZ, T. J., and HANSEN, J. E. Butyl acrylate-acrylonitrile rubbers resistant to heat, oils, and low temperatures. U. S. Bur. Agr. & Indus. Chem. AIC-302, 6 p. Ref. Mar. 1951. 1.932 A2Ag82
- 48096 DINSMORE, R. P. Rubber chemistry. Indus. & Engin. Chem. 43:795-803. Ref. Apr. 1951. 381 J825
- 48097 FABRE, R. Le marché international du caoutchouc. Marchés Colon. 7:707-709. (To be cont.) Mar. 10, 1951. 286.8 M33
- 48098 GT. BRIT. CENTRAL OFF. OF INFORMATION. Malaysian rubber. London, 1950? 12 p. 305 G79
- 48099 HOUWINK, R. Reasons why latex finds application in industry. (In Dutch.) Bergcultures 20:53, 55, 57. Feb. 1, 1951. 22.5 B45
- 48100 MCKEOWN, C. B., and WILLIAMS, T. E. RMA [Rubber Manufacturers Association] packing specifications for crude rubber should be made more specific. India Rubber World 123:683-685. Mar. 1951. 305.8 In2
- 48101 NAUNTON, W. J. S. Application of sciences to rubber technology. (Sum.) India-Rubber J. 120:224. Feb. 10, 1951. 305.8 In21
- 48102 PISARENKO, A. P., SHEKHTER, A. B., and ECHEISTOVA, A. I. Electron microscopic investigation of rubber structures. (In Russian.) Akad. Nauk SSSR. Dok. 76:423-425. Jan. 21, 1951. 511 P444A
- 48103 SODEN, A. L. A practical manual of rubber hardness testing. India-Rubber J. 120:254-257, 332, 334, 348. (Concl.) Feb. 17, Mar. 3, 1951. 305.8 In21
- 48104 TRAVIS, H. F. The bounce in the rubber industry. Mag. Wall St. 87:674-675, 698. Mar. 24, 1951. 286.8 M27
- 48105 U. S. DEPT. OF COMMERCE. Rubber; second annual report, April 1, 1949-June 30, 1950. Washington, 1951. 36 p. 157 R82
- 48106 VALZ, A. M. Recipe for rubber. Du Pont Mag. 45(2):11-12. Apr./May 1951. 309.8 D92
- 48107 WOODRUFF, W. Origins of an early English rubber manufactory. Business Hist. Soc. B. 25:31-51. Mar. 1951. 280.9 B96



## SEEDS

- 48108 CARTER, W. L. An 18th-century seedsman's bill. *My Gard.* 42:195-198. Feb.1951. 80 M995  
Prices for seed in 1781.
- 48109 CASTERLINE, F. What are the reasons for by-passing the seedsman? *Grain & Feed J. Consolidated* 106(7):21. Apr.11,1951. 298.8 G762  
In seed purchasing.
- 48110 HÄRING, Der handel mit saatgut. *Württemb. Wchnbl. f. Landwirt.* 118:215-216. Mar.17,1951. 18 W96
- 48111 IOWA CROP IMPROVEMENT ASSOCIATION. Know the seed you plant; Iowa's certified seed for 1951. Ames, 1950. 21 p. 225 Io97
- 48112 LAUBE, W. Zum entwurf eines saatgutgesetzes. *Landwarenkaufmann* 6(4):1. In *Ernährungsdienst* 6(11). Jan.27,1951. 389.8 Er62  
Germany.
- 48113 MASSACHUSETTS. SEED CONTROL SERV. Seed inspection. *Mass. Agr. Expt. Sta. Control Ser. B.* 147.29 p. Nov.1950. 100 M38H
- 48114 MELLO, A. T. DE. To preserve our seeds. (In Portuguese.) *Selec. Agr.* 6(57):65-67. Jan.1951. 9.2 Se4
- 48115 MUNN, M. T., and BUCHHOLZ, A. B. The quality of seeds on sale in New York in 1950. N. Y. (State) *Agr. Expt. Sta. B.* 746,80 p. Feb.1951. 100 N48
- 48116 NORWAY. STATENS LANDBRUKSKJEMISKE KONTROLLSTASJON OG FRØKONTROLL. Melding om arbeidet ved den Kjemiske Avdeling i 1949 [Report on the work of the Chemical Division of the State Agricultural Chemical Control Station and Seed Control in 1949]. Trondheim, 1950. 16 p. 385 T75
- 48117 PARSONS, F., and JOHNSON, A. A. Organizations concerned with seed certification. *Seed World* 68(5):17-18,54. Mar.2,1951. 61.8 Se52
- 48118 PARSONS, F., and others. Seed production geared to seed needs. *Seed World* 68(6):34,36. Mar.16, 1951. 61.8 Se52  
H. E. Finnell, R. P. Moore, and K. E. Beesen, joint authors.
- 48119 PORTER, C. R., OAKLEY, J., and PIERSON, R. Seed certification. *West. Feed & Seed* 6(3):30,32. Mar.1951. 389.78 W52
- 48120 U. S. PRODUCTION AND MARKETING ADMIN. Legume and grass seed: supply and distribution, 1951-52. Washington, 1951. 1 p. 1.956 G76L52

## SUGAR AND SIRUPS

- 48121 ADVANI, R. D., and NARWANI, C. S. Reaction of sugars with gelatin. *Indian Chem. Soc. J.* 27:615-618. Nov.1950. 385 In27
- 48122 AFANASENKO, S. S. Results of pump operation in transferring first molasses. (In Russian.) *Sakh. Promysh.* 24(11):33-34. Nov.1950. 65.8 Sa2
- 48123 AHLFELD, H. Unsere zuckerversorgung. *Deut. Landwirt. Presse* 74:55. Feb.17,1951. 18 D482
- 48124 CARIBBEAN COMMISSION. CENTRAL SECRETARIAT. The industrial utilisation of sugar cane by-products, by Walter Scott. Port-of-Spain, Kent House, 1950. 121 p. 65 C192
- 48125 CHAO, K. H. Action, sur les glucides, de quelques bactéries de la pourriture visqueuse. *Indus. Agr. et Aliment.* 68:13-22. Ref. (Concl.) Jan./Feb.1951. 383 As7  
In sugar beets.
- 48126 CHATURVEDI, H. S. The sugar industry of India. *Sugar J.* 13(10):11-13,24-28. Mar.1951. 65.8 Su391
- 48127 DEKKER, K. D. The Queensland sugar industry. *So. African Sugar J.* 35:91,93,95,97. Feb.1951. 65.8 So8
- 48128 DODDS, H. H. The sugar industry in Mauritius. *So. African Sugar J.* 35:107,109,111. Feb.1951. 65.8 So8
- 48129 FAUSEL, W. Rückblick auf die rübenabnahme 1950. *Württemb. Wchnbl. f. Landwirt.* 118:112-113. Feb. 10,1951. 18 W96
- 48130 FOSTER, C. B. The yield of sugar cane in Barbados in 1950. *Barbados. Dept. Sci. & Agr. B. (n.s.)* 15, 14 p. Aug.1950. 8 B23B
- 48131 GILMAN, W. They have a sweet time dairying and sugarin'. *East. States Coop.* 27(4):15. Apr.1951. 280.28 Ea7  
Maple sugar extraction.

- 48132 GOLOVKOV, P. D. Rate of sugar crystallization during the boiling of molasses. (In Russian.) *Sakh. Promysh.* 24(11):23-24. Nov.1950. 65.8 Sa2
- 48133 HARKEN, J. T. New method of sugar cane hauling in the Philippines. *Sugar News* 27:17-18. Jan. 1951. 65.8 Su36
- 48134 HOCKETT, R. C. Sugar—the foundation of life. (Digest.) *Prod. Rev.* 41(3):35-38. Jan.15,1951. 23 P942  
Covers the chemistry and biochemistry of natural and refined sugars.
- 48135 HONIG, P. The chemistry of the carbonation process applied to raw sugar liquors. *Sugar* 46(4):37-39. Apr.1951. 65.8 F11
- 48136 HONIG, P. Progress in sugar technology; clarifications in mills over fifty years. *Austral. Sugar J.* 42: 776,778,781. (Concl.) Feb.15,1951. 65.8 Au7
- 48137 HORNE, W. D., CANTOR, S. M., and LIGGETT, R. W. Sugar chemistry. *Indus. & Engin. Chem.* 43:804-808. Apr.1951. 381 J825
- 48138 IVANOV, S. Z., and KORCHINSKIĬ, A. I. At the sources of beet sugar manufacture (To the 150th anniversary of beet sugar production in Russia). (In Russian.) *Priroda* 39(10):73-76. Ref. Oct.1950. 410 P933
- 48139 KANEVSKIĬ, L. I. A. For further development of the sugar industry. (In Russian.) *Sakh. Promysh.* 24(11):5-8. Nov.1950. 65.8 Sa2
- 48140 KLEIMAN, B. M. Production of pressed refined sugar with properties of sugar loaf. (In Russian.) *Sakh. Promysh.* 24(11):24-28. Nov.1950. 65.8 Sa2
- 48141 KORCHINSKIĬ, A. I. On the origin of the beet sugar industry [in U.S.S.R.]. (In Russian.) *Sakh. Promysh.* 24(11):12-16. Nov.1950. 65.8 Sa2
- 48142 LANG, L. Liquid sugar and candy. *Internatl. Confectioner* 61:34-35. Jan.1951. 389.8 In214
- 48143 LUCE, A. D. Les producteurs de betteraves et la raffinerie de St-Hilaire. *B. des Agr.* 47(3):8-9,86. Mar.1951. 7 B872  
Canada.
- 48144 LÜDECKE, H. Wieviel zuckerrüben je hektar? *Neue Mltt. f. die Landwirt.* 6:179-180. Mar.24,1951. 18 N39  
Germany.
- 48145 MARTYNOV, M. I. Increasing the productivity of vertical evaporators [in sugar factories]. (In Russian.) *Sakh. Promysh.* 24(11):28-32. Nov.1950. 65.8 Sa2
- 48146 MEISNER, F. 900.000 to verbrauchsucker aus eigener ernte. *Bad. Landwirt. Wchnbl.* 118:127-128. Feb.24,1951. 18 B142  
Situation and outlook.
- 48147 MIRASOL, J. J. On P. I. mill efficiency. *Sugar News* 27:19,29-30. Jan.1951. 65.8 Su36  
Sugarcane processing.
- 48148 MORONEY, C. J. Beet sugar now outselling cane in Pacific Coast areas. *Spreckels Sugar Beet B.* 15: 14. Mar./Apr.1951. 66.8 Sp7
- 48149 O'BRIEN, C. H. The history of the Australian sugar industry. *Austral. Sugar J.* 42:769-770,772,775 Feb.15,1951. 65.8 Au7
- 48150 SEABRA, A. N. The sugar situation with regard to the Brazilian economy. (In Portuguese.) *Lavoura* 54:14. Nov./Dec.1950. 9.2 L39
- 48151 SILIN, P. M. Problems in diffusion juice production. (In Russian.) *Sakh. Promysh.* 24(11):17-23. Nov.1950. 65.8 Sa2
- 48152 THE SUGAR industry. *Ceylon Trade J.* 15:707-713. Dec.1950. 286.8 C333
- 48153 TEJADA, J. DE D. La actualidad azucarera. *Cuba Econ. y Financ.* 26(299):27-28. Feb.1951. 286.8 C892
- 48154 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Household use of sugar, sirups, and honey, by 235 farm families in Meeker and Wright Counties, Minnesota, spring 1950. Preliminary. Washington, 1951. 2 p. 1.982 A2H813
- 48155 VINNIK, B. I. A valuable beginning of the collective of Ryzhavskii sugar factory. (In Russian.) *Sakh. Promysh.* 24(11):8-10. Nov.1950. 65.8 Sa2
- 48156 WIEHE, A. Le rendement des évaporateurs en sucrerie. *Rev. Agr. de l'île Maurice* 29:256-269. Nov./Dec.1950. 24 M44

## TOBACCO

- 48157 BADGETT, C. O., and WOODWARD, C. F. Extraction of "essence" from tobacco stems. *U. S. Bur. Agr. & Indus. Chem. AIC* 298,10 p. Ref. Feb.1951. 1.932 A2Ag82
- 48158 CARLANI, P. Fire curing of tobacco. II. (Italian.) *Agricoltura [Perugia]* 8(2):2. Jan.1/31,1951. 281.8 Ag822



- 48159 GIOVANNOZZI, M. On factors determining and influencing the fermentation of tobacco. (In Italian.) *Tobacco* 55(618):3-14. Jan.1951. 69.8 T115
- 48160 GORNIK, R. Les tabacs yougoslaves sur le marche mondial. *Rev. Internatl. des Tabacs* 26:37-41. Feb.1951. 69.8 R324
- 48161 KORTKAMP, M. Situation de l'industrie des tabacs à fumer, à priser et à mâcher dans l'Allemagne occidentale depuis 1945. *Rev. Internatl. des Tabacs* 26: 44. Feb.1951. 69.8 R324
- 48162 MASHKOVTSYEV, M. F. Effect of correlation between quantities of amino acid and sugar on the process of melanoidin formation. (In Russian.) *Biokhimiya* 15: 528-533. Nov./Dec.1950. 385 B523
- Experiments with tobacco.
- 48163 MATTHEWS, E. M., and others. Curing bright leaf tobacco with forced ventilation. *Va. Agr. Expt. Sta. Tech. B.* 116,13 p. Ref. Jan.1951. 100 V81S
- V. H. Baker, G. E. Barlow, Jr., and R. B. Davis, Jr., joint authors.

48164 MEISNER, F. Badisches oberland: zigarrengut zu gerechten preisen. *Süddeut. Tabakztg.* 61(8):7. Feb.23, 1951. 286.89 Su2

48165 ORBECK, K. Technische Grundlagen für die heisslufttrocknung von hellen virgintabaken. *Tabak-Forschung* 1951(5):4-6. (To be cont.) In *Süddeut. Tabakztg.* 61(8). Feb.23,1951. 286.89 Su2

48166 SCHMID, K. Zum 70. geburtstag von Prof. Dr. Paul Koenig, sein lebenswerk in der tabakwissenschaft. *Süddeut. Tabakztg.* 61(8):4. Feb.23,1951. 286.89 Su2

48167 TORRES, L. DE. El secado de los tabacos claros. *Chacra* 21(244):62-63. Mar.1951. 9 C34

48168 UNION OF SOUTH AFRICA. CONTROLLER AND AUDITOR GENERAL. Report on the accounts of the Tobacco Industry Control Board for the accounting year 1st May, 1948, to 30th April, 1949, and the balance sheet as at 30th April, 1949. Pretoria,1950. 9 p. 286.3699 So8

48169 U. S. PRODUCTION AND MARKETING ADMIN. Proposed grades for Pennsylvania seedleaf tobacco (U. S. type 41). Washington,1950. 11 p. 1.956 T55P944

48170 U. S. PRODUCTION AND MARKETING ADMIN. Tentative standard grades for Pennsylvania seedleaf tobacco (U. S. type 41). Washington,1951. 11 p. 1.9 Ec792Tod

48171 U. S. PRODUCTION AND MARKETING ADMIN. Tentative standard grades for sorted and unsorted broadleaf tobacco of type 51. *Rev. Washington*,1950. 14 p. 1.956 T55T263

48172 WAHL, R. Die alkaloiden einiger nikotinfreier tabaksorten. 1. *Tabak-Forschung* 1951(5):6-7. Ref. In *Süddeut. Tabakztg.* 61(8). Feb.23,1951. 286.89 Su2

#### MISCELLANEOUS PRODUCTS

48173 AKAMINE, E. K., and SAKAMOTO, H. I. Brominated charcoal to prevent fading of Vanda orchid flowers. *Amer. Orchid Soc. B.* 20:149-152. Mar.1951. 80 Am329

48174 BRITAIN, R. Weed with a cash value. *Nation's Business* 39(5):75. May 1951. 286.8 N212

Uses for safflower.

48175 CAMPBELL, T. W., and COPPINGER, G. M. The synthesis and absorption spectra of some analogs of humulon. *Amer. Chem. Soc. J.* 73:1849-1850. Apr.1951. 381 Am33J

48176 CARSON, J. F. The hydrogenation of lupulone and humulone. *Amer. Chem. Soc. J.* 73:1850-1851. Apr. 1951. 381 Am33J

48177 ELLIOTT, H. H., and HARVEY, E. W. Biological methods of blood removal and their effectiveness in reducing discoloration in canned dungeness crabmeat. *Food Technol.* 5:163-166. Ref. -Apr.1951. 389.8 F7398

48178 FRYAR, R. G. Merchandising and distributing problems of the grower. *Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course* 3:18-24. 1950. 81 N817

48179 GRANBERG, W. J. Fish packing; floating canery. *Food Packer* 32(4):34. Apr.1951. 286.83 C165

48180 LARSSON, F. Marketing of flowers on a co-operative basis. (In Norwegian.) *Gartneryrket* 41:156. Mar.3,1951. 80 G1938

Norway.

48181 LEMON, J. M. Fish refrigeration. In *American Society of Refrigerating Engineers. Refrigerating data book*, ed.3,p.17-32. New York,1951. 295.9 Am32Ref

48182 PIERCE, F. O. Merchandising and distributing problems of the jobber. *Nowest. Bulb Growers Assoc. Proc. Bulb Growers Short Course* 3:24-26. 1950. 81 N817

48183 RADA, E. L. Some problems of marketing Hawaiian floricultural products on the mainland. *Hawaii. U. Agr. Ext. Agr. Econ. Rpt.* 4,12 p. Mar.1951. 275.29 H312Ae

48184 RAYMOND, M. Why not more flower publicity? *Fruitation* 5(3):15,21. Mar.1951. 286.83 F949

48185 RIGBY, F. L., and BETHUNE, J. L. Studies on the determination of lupulon and humulon. *Amer. Soc. Brewing Chem. Proc.* 1950:1-8. Ref. 1951. 390.9 Am321

Includes discussion.

48186 TEIXEIRA E SILVA, H. M. Preservation of shrimp. (In Portuguese.) *B. de Indus. Anim. (n.s.)* 11: 125-128. June 1950. 49 R324

48187 VERMEULEN, C. Les analyses de houblon. *Petit J. du Brasseur* 59:189. Mar.9,1951. 390.8 P44

#### AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

References on farm structures and rural housing are classified with Agricultural Engineering.

##### GENERAL

48188 ANDRADE, J. L. DE. Opinions on planning. (In Portuguese.) *Granja [Lisboa]* 9:197-201. July/Sept. 1950. 15.5 G76

Economic.

48189 BREGMAN, A. Chapters in the economy of Indonesian agriculture. I. (In Dutch.) *Econ. Weekbl. v. Indonesië* 17:55-58. Jan.27,1951. 280.8 Ec76

48190 BREWER, H., JR. The Marshall Plan vs communism. *Amer. Coop.* 22:668-671. 1950. 280.29 Am3A

48191 BUCHLER, J. P. Les aspects économiques de l'agriculture du Grand-Duché de Luxembourg. *Soc. Belge d'Etudes et d'Expansion. B. Bimes.* 50(144):103-107. Jan./Feb.1951. 280.8 So17

48192 BURGER, D., JR. The social and economic importance of land reclamation. (In Dutch.) *Netherlands. Landbvoorlichtingsdienst. Maandbl.* 7:512-518. Ref. Dec.1950. 12 N383M

Netherlands.

48193 CAVINA, R. Structure of the Brazilian rural economy. (In Portuguese.) *Selec. Agr.* 6(57):47-50. Jan.1951. 9.2 Se4

48194 DAVIS, J. H. Observations on European recovery. *Amer. Coop.* 22:122-126. 1950. 280.29 Am3A

48195 L'ECONOMIE agricole de la Tunisie. *Coopération* 21:11-16. Feb.1951. 280.28 C7845

48196 FERLITSCH, H. Österreich im blickfeld europäischer wirtschaft. *Allg. Bauern-Ztg.* 6(8):1-2. Feb.24, 1951. 19 K142

48197 GILBERT, R. R. Economic stability and defence; a speech delivered before the 74th annual convention of the Texas and Southwestern Cattle Raisers Association, Dallas. *Cattleman* 37(11):58,60,62,64,66,68, 70. Apr.1951. 49 C29

48198 GUIMARÃES, W. Commentary on the economy of Bala. (In Portuguese.) *Bahia. Sec. da Agr., Indus. e Com. Serv. de Divulg.* B. 46(6):74-78. Mar.1950. 9.2 B14

Agricultural.

48199 HOOS, S. Current economic research; agricultural economic studies cover farm management, conservation, marketing, commodity analyses. *Calif. Agr. [Calif. Sta.]* 3(4):6,14. Apr.1951. 100 C12Cag

48200 JAUNE, R. Quelques considérations sur le programme d'ide technique de l'O.N.U. *Ann. de Gembloux* 57:37-45. First Q.1951. 13 G28

48201 MEHICI, G., and FAMULARO, N. Criteria for estimating war damages. (In Italian.) *Riv. del Catasto e del Serv. Tec. Erariali (n.s.)* 5:210-215. 1950. 280.8 R523

48202 ORWIN, C. S. Farm economics. *Roy. Agr. Soc. Eng. J.* 111:121-128. Ref. 1950. 10 R81

Research.

48203 REYES, D. La economia peruana. *Hacienda* 46(3):29-31,80,82. Mar.1951. 6 H11

Agricultural.

48204 SCHULTZ, T. W. Economic efficiency: its meaning, measurement, and application to agricultural problems. *J. Farm Econ.* 33:115-119. Feb.1951. 280.8 J822



48205 U. S. BUR. OF AGRICULTURAL ECONOMICS. Agricultural economic and statistical publications. Washington, 1951. 69 p. 1.9 Ec731La

48206 U. S. DEPT. OF STATE. DIV. OF LIBRARY AND REFERENCE SERV. Point four; Far East; a selected bibliography of studies on economically underdeveloped countries. U. S. Dept. State. Bibliog. 57,46 p. Washington, 1951. 150.1 P753

Includes references to agriculture.

48207 U. S. DEPT. OF STATE. DIV. OF LIBRARY AND REFERENCE SERV. Point four; Near East and Africa; a selected bibliography of studies on economically underdeveloped countries. U. S. Dept. State. Bibliog. 56, 136 p. Washington, 1951. 150.1 P754

Includes references to agriculture.

### AGRICULTURAL FINANCE

48208 ALLUE MORER, A. Las inversiones de los fondos de reserva de las explotaciones agrícolas. Ceres [Valladolid] 16(176):12-13. Feb.1, 1951. 15 C33

48209 CARRILLO FLORES, A. Financiamiento del desarrollo económico de México; prácticas, métodos y problemas. Prob. Agr. e Indus. de Méx. 2(1):9-47. Jan./Mar. 1950. 281.8 P943

Includes agriculture.

48210 DU PLESSIS, C. V. H. What should the farmer do with his money? There are two kinds of investments. (In Afrikaans.) Landbouweekblad 32(1651):25. Mar.7, 1951. 24 L232

48211 JØRGENSEN, C. Farm investments and income. (In Danish.) Tidsskr. f. Landøkon. 1951:141-145. Mar. 1951. 11 T43

48212 KALLSTROM, V. Capital investments of Swedish industries in the years 1949-1951. (In Swedish.) Sweden. Komkol. Kom. Meddel. 37:813-817. Dec. 1950. 257.3 K832K

Includes agriculture.

48213 MAZEROLLE. Rapport sur le projet de budget de la Division de l'Agriculture et de l'Elevage. Chambre d'Agr. de Casablanca. B. 21(236):5-13, 15. Dec. 1950. 24 C26

48214 PINSTRUP, H. A misjudgement. (In Danish.) Dansk Landbr. 70:65-66. Feb. 8, 1951. 280.28 V91

Effect of devaluation on Danish agriculture.

### Credit

48215 ARNOLD, C. R. The production credit system: how cooperative? Amer. Coop. 22:203-211. 1950. 280.29 Am3A

48216 BRANDÃO FILHO, J. S. Credit for rural producers. (In Portuguese.) Divulg. Coop. 1951:7-8. Jan. 1951. 280.28 R47

Cooperative credit.

48217 CAMPBELL, W. W. The farmer, the banker, and defense. Tenn. Banker 39(3):8, 10-12. Mar. 1951. 284.8 T25

48218 COTTINGHAM, T. J. Credit that builds farms. Burroughs Clearing House 35(7):25-27, 71-76. Apr. 1951. 284.8 B94

48219 DAVIES, W. Taking credit. Fert. Feed. Stuffs & Farm Supplies J. 37:75-76. Feb. 7, 1951. 57.8 F413

48220 DAYTON, C. E. Salesmanship in relation to credit control. Amer. Coop. 22:471-472. 1950. 280.29 Am3A

48221 DUGGAN, I. W. No shortage of cooperative credit for production purposes. News Farmer Coop. 18: 6. Apr. 1951. 166.2 N47

48222 EIDAM, J. E. The potential of credit unions in the farm credit field. Amer. Coop. 22:181-186. 1950. 280.29 Am3A

48223 ELLIS, W. E. Cattle lending—its problems and possibilities. South. Banker 95(3):25, 63. Mar. 1951. 284.8 S08

48224 FAIR, S. J. Farmers learn to hire money economically. East. States Coop. 27(3):10. Mar. 1951. 280.28 Ea7

Cooperative credit.

48225 FARRINGTON, R. L. Credit on tap for increased co-op needs. News Farmer Coop. 18:8. Apr. 1951. 166.2 N47

48226 FILIPPI, E. Rural banks in the Trentino agricultural economy. (In Italian.) Almanacco Agr. (1951) 62: 89-92. 1950. 16 AL6

Credit.

48227 FLAVIGNY, J. Le crédit agricole aux Etats-Unis d'Amérique. France. Min. de l'Agr. B. Tech. d'Inform. 55:857-870. Dec. 1950. 14 F844B

48228 FORD, S. Chicken paper is one of our best risks. (Condensed.) U. S. Egg & Poultry Mag. 57(4):11, 19-20, 22. Apr. 1951. 286.85 Eg3

Credit.

48229 GALIMON, L. Accumulated problems in the financing of machine-tractor stations [by the State Bank]. (In Russian.) Mashinno-Traktornaya Sta. 10(10):8-12. Oct. 1950. 58.8 M11

48230 GEORLETTE, R. Rôle économique et social des comptoirs agricoles agréés par la Caisse Générale d'Epargne et de Retraite. Ann. de Gembloux 57:23-36. First Q. 1951. 13 G28

48231 GONZALEZ SANTOS, A. Situación del crédito en el Noroeste de México. Prob. Agr. e Indus. de Méx. 2(1):119-164. Jan./Mar. 1950. 281.8 P943

Includes agricultural credit.

48232 HANNAH, H. W. Agricultural liens in Illinois. Ill. Agr. Expt. Sta. B. 545:139-168. Feb. 1951. 100 IL68

48233 HUNT, R. S., and COATES, G. R. The impact of the Secured Transactions Article on commercial practices with respect to agricultural financing. Law & Contemp. Prob. 16:165-182. Spring 1951. Legal Libr.

48234 ISLEIB, J. R. The land banks and NFLAs [national farm loan associations]: how cooperative? Amer. Coop. 22:192-202. 1950. 280.29 Am3A

48235 JOHNSON, C. How Commodity Credit Corporation operates. (Extr.) Grain & Feed J. Consolidated 106(6):11, 13. Mar. 28, 1951. 298.8 G762

48236 KENYA. LAND BANK. Annual report, 1949. Nairobi, 1950. 24 p. 284.29 L222

48237 KIRMAN, M. Le crédit agricole dans différents pays. (In Turkish.) Türkiye Cumhuriyeti Ziraat Bankası. Uç Ayda Bir Çıkar 1950:133-136. Apr./June 1950. 280.9 T842

48238 LASSETER, D. B. FHA borrowers paying off loans. N. C. Dept. Agr. Agr. Rev. 26(5):2. Mar. 1, 1951. 2 N81Ag

48239 MACKIEWICZ, P. A propos du budget! équipement agricole et crédit mutuel. Colon Franç. de Tunisie (ser. 7) 60(2137):1, 3. Mar. 25, 1950. 24 C712

48240 MOSS, J. L. Banking experiences of a country banker. Tenn. Banker 39(4):14-15. Apr. 1951. 284.8 T25

48241 NORTON, L. J. An appraisal of farm credit organizations as functioning cooperatives. Amer. Coop. 22:187-191. 1950. 280.29 Am3A

48242 PROUST, R. L'amélioration de l'habitat rural. Tarn-et-Garonne Agr. 14:14. Jan. 1951. 14 T17

Credit.

48243 RICHARDS, D. F. The banker's role in the battle for food. Bankers Mon. 68(4):7-8, 10, 12. Apr. 1951. 284.8 B223

Credit.

48244 SCHARF, R. A. How turkey financing plans work. Feedstuffs 23(14):46-48. Apr. 7, 1951. 286.81 F322

48245 STALL, C. W. Transfer is sensible. Hooster Farmer 36(4):14-15, 48. Apr. 1951. 280.82 H76

Farmer ownership of Production Credit Associations.

48246 UNITED NATIONS. ECONOMIC AND SOCIAL COUNCIL. ECONOMIC COMMISSION FOR LATIN AMERICA. Agricultural credit in Costa Rica. New York, 1950. 55 p. (United Nations. [Doc.] E/CN.12/167/Add.1)

284.2 Un394Ag

48247 UNITED NATIONS. ECONOMIC AND SOCIAL COUNCIL. ECONOMIC COMMISSION FOR LATIN AMERICA. Agricultural credit in El Salvador. New York, 1950. 59 p. (United Nations. [Doc.] E/CN.12/167/Add.2)

284.2 Un394Ae

48248 UNITED NATIONS. ECONOMIC AND SOCIAL COUNCIL. ECONOMIC COMMISSION FOR LATIN AMERICA. Agricultural credit in Guatemala. New York, 1950. 77 p. (United Nations. [Doc.] E/CN.12/167/Add. 3)

284.2 Un394Ac

48249 U. S. FARM CREDIT ADMIN. Production credit associations; summary of operations, calendar year 1950. Washington? 1951. 21 p. 1.955 P2Su6

48250 U. S. FARMERS HOME ADMIN. Activities of the water facilities program for Idaho. Annual report. Salt Lake City, 1951? 6 p. 1.949 Ac82

48251 U. S. FARMERS HOME ADMIN. Annual report, Georgia Office, 1949/50. Atlanta, Ga., 1950. 7 p. 1.949 An74

48252 U. S. FARMERS HOME ADMIN. Farm ownership family progress report, 1950. Washington, 1951. 115 p. 1.949 F2243

Statistical report.



48253 U. S. FARMERS HOME ADMIN. South Carolina annual report, 1949/50. Columbia, 1950. 7 p. 1.949 So8 Credit.

48254 UYGURER, S. La Confédération Internationale du Crédit Agricole. (In Turkish.) Türkiye Cumhuriyeti Ziraat Bankası. Uç Ayda Bir Çıkar 1950:125-127. Apr./June 1950. 280.9 T842

48255 ZOGAIB, U. D. Credit policy of the Bank of Brazil. (In Portuguese.) Rev. dos Mercados 1(4):24-29. Dec. 1950. 286.8 R328

Includes loans to agriculture.

### Income

48256 BRANDOW, G. E., and ALLISON, H. E. Per capita incomes on commercial and non-commercial farms. J. Farm Econ. 33:119-123. Feb. 1951. 280.8 J822

48257 BREDAL-BAUER, J. Income and property in 1949. (In Swedish.) Sweden. Socialstyr. Sociala Meddel. Statist. Meddel. Ser. F 61:89-97. Feb. 1951. 257.3 So15 English summary, p. 160. Includes agriculture.

### Inflation

48258 PAARLBERG, D. How serious is inflation? Co-op. Shipper 31(4):4-5. Apr. 1951. 280.38 C78

### Insurance

48259 CASTER, C. A. New social security for farm workers. Eggsaminer 28(3):14-15. Mar. 1951. 286.85 Eg32

48260 CHASE, F. J., and FORD, R. G. Social security for old age and survivors insurance for farm workers. Nebr. Agr. Col. Ext. E. C. 886,4 p. 1951. 275.29 N272Ex

48261 CRISTOFORI, E. Manuale pratico per la determinazione del carico dei contributi unificati in agricoltura per la Provincia di Bologna [Practical manual for the determination of the incidence of unified payments in agriculture for the Province of Bologna]. Bologna, Anonima Arti Grafiche, 1950? 40 p. 284.6 C86

48262 ELLINGTON, F. B. Social security for farmers. Grain Prod. News 3(8):16. Mar. 1951. 286.81 G764

48263 GERDES, E. Feuerversicherungsfragen. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:359-360. Mar. 8, 1951. 18 L2346

48264 HANSEN, G. S. Hail insurance offers public relations opportunity to insurance agents. Com. West 101(11), i.e. 12:22-23. Mar. 24, 1951. 286.8 C733

48265 HARVEY, G. R. Many laws affect farm insurance. Hoosier Farmer 36(4):21. Apr. 1951. 280.82 H76

48266 HOLLOWAY, S. C. Fort Worth insurance center for West Texas with 23 home companies. West Tex. Today 32:12. Mar. 1951. 286.8 W522

48267 PARLAGRECO, A. The unsustainable unified contributions. (In Italian.) Gior. di Agr. 61:73-74. Mar. 11, 1951. 16 It1G Italy.

48268 RATLIFF, P. Insurance growth gratifying. Hoosier Farmer 36(4):41-42. Apr. 1951. 280.82 H76

48269 RUSH, J. D. Farm mutual insurance in Virginia. Mutual Ins. B. 38(2):15-19, 23. Feb. 1951. 284.68 M983

48270 SEZGIN, A. Le programme de l'assurance concernant le produit du maïs aux Etats-Unis. (In Turkish.) Türkiye Cumhuriyeti Ziraat Bankası. Uç Ayda Bir Çıkar 1950:116-121. Apr./June 1950. 280.9 T842

48271 SNYDER, G. B. Do your farmers understand hail insurance? Agr. Leaders' Digest 32(4):16-17. Apr. 1951. 275.28 Am3

48272 TINLEY, H. L. Seven points to check in your fire insurance policy. Capper's Farmer 62(5):15, 53. May 1951. 6 M693

48273 U. S. FEDERAL CROP INSURANCE CORPORATION. FCI county procedure manual; beans—county acreage report procedure for 1951 and succeeding crop years. III. Washington, 1951. 12 p. 1.952 F114

### Taxation

48274 BEEK, C. P. M. VAN. Tax exemption of motorized equipment in agriculture. (In Dutch.) Groninger Landtbl. 28(50):15. Dec. 23, 1950. 12 G892 Tractors.

48275 BURCH, D. W. Fluctuating farm income and the tax system. J. Farm Econ. 33:108-114. Feb. 1951. 280.8 J822

48276 DUSSERD, R. Les impôts actuels sur les bénéfices agricoles. Tarn-et-Garonne Agr. 14:12-13, 34-35. (Cont.) Jan.-Feb. 1951. 14 T17

48277 GANES, L. Déclarations des revenus de l'année 1950 à souscrire par les propriétaires de biens ruraux donnés à ferme. Agr. Prat. 115:68. Feb. 1951. 14 J82

For taxation in France.

48278 GIL, O. DE A. The tax on sales and consignments and futures operations. (In Portuguese.) Rev. dos Mercados 1(4):39-42. (Cont.) Dec. 1950. 286.8 R328 Brazil.

48279 GJEMS-ONSTAD, E. Depreciation on greenhouses. (In Norwegian.) Gartneryrket 41:37-38. Jan. 20, 1951. 80 G1938 Taxation.

48280 GUIMARAES, A. P. Considerations on the increased tax on sales and consignments. (In Portuguese.) Rev. dos Mercados 1(4):37-38. Dec. 1950. 286.8 R328 Brazil.

48281 HART, S. H., and EMBREE, W. D., JR. Tax-payers win—Circuit Court in Texas rules in favor of stockmen on capital gains issue. West. Livestock J. 29 (16):160-162. Feb. 15, 1951. 6 F2278 Also in Sheep & Goat Raiser 31(6):42-43. Mar. 1951. 45.8 Sh8

48282 HENGL, F. Wie berechnet der buschenschenker nach dem 1. feber die auf den weinverkauf entfallenden steuern? Österr. Weinztg. 6(3):1-2. Feb. 10, 1951. 390.8 Os7

48283 HULBERT, L. S. Taxable income is determined and measured by legal standards. Amer. Coop. 22: 355-364. 1950. 280.29 Am3A Includes discussion.

48284 IUKHIMENKO, V., From the practices of livestock procurement. (In Russian.) Mfasnafä Indus. SSSR. 21(5):64-66. Sept./Oct. 1950. 50.8 M58 Taxation in kind.

48285 KAPPUS, W. Lastenausgleich und landwirtschaft. Württemb. Wchnbl. f. Landwirt. 118:111-112. Feb. 10, 1951. 18 W96

48286 LINDSEY, Q. W. A procedure for the equitable assessment of Nebraska farm land. Nebr. Agr. Expt. Sta. Res. B. 400, 79 p. Dec. 1950. 100 N27

48287 LOTH, A. A review of Farmers Cooperative v. Birmingham. Amer. Coop. 22:365-372. 1950. 280.29 Am3A

Includes discussion.

Taxation.

48288 MCFALL, J. R. Farmers' 1950 income tax guide. West. Farm Leader 16:51. Feb. 16, 1951. 280.28 W52

48289 MARSAL, J. Le droit agricole; comment "réclamer" en matière d'impôts directs. Motorisation Agr. 6:97, 99. Feb. 1951. 58.8 M85 France.

48290 MILLER, J. R. How to report taxes on breed stock sale. Natl. Live Stock Prod. 29(7):18, 23. Apr. 1951. 280.38 N21

48291 SIJTSMA, P. Tax revision 1950 and agriculture. XVIII. (In Dutch.) Boer en Tuinder 5(210):7. Jan. 27, 1951. 12 B632 Netherlands.

48292 SIJTSMA, P. Taxation question. 2-7. (In Dutch.) Friesch Landtbl. 48:66, 82, 102, 114, 135, 150. Feb. 2-Mar. 9, 1951. 12 F91

48293 STRUNZ, H. Achtung! Ab 1. jänner 1951 Änderungen wichtiger steuervorschriften! Gartenbauwirtschaft [Wien] 1951:7-8. Jan. 10, 1951. 80 G1936

### AGRICULTURAL LABOR AND WAGES

48294 BEBON, A. Le rajustement des salaires. B. Econ. et Social de la Tunisie 49:59-66. Feb. 1951. 280.8 B874

Includes agricultural wages.

48295 BECKERICH, A. Les agriculteurs sont-ils des gaspilleurs de main-d'œuvre? Génie Rur. 44:99. Mar. 1951. 58.8 Au8

48296 BIDERMAN, B. Farm workers in 1950. Farm Labor News 6(3):3-4. Mar. 1951. 283.8 F224

48297 EASTERN Seaboard farm worker migration may decline in 1951. U. S. Bur. Employment Security. Labor Mkt. & Employment Security 1951:12-14. Mar. 1951. 173.2 So1L

48298 ELAM, F. L. Ingenuity pays off; Wesley Clark puts his inventions to work. West. Dairy J. 7(5):10-11, 31, 33-35. Mar. 1, 1951. 44.8 W524 Labor efficiency.



- 48299 GIFFORD, C. W. 40 tips that save chore time. *Farm J.* 75(5):32,157-159. May 1951. 6 F2212
- 48300 HOPKINS, J. A. Los salarios y la productividad del trabajo agrícola en México. *Prob. Agr. e Indus. de Méx.* 2(2):169-186. Apr./June 1950. 281.8 P943
- 48301 JOHNSON, D. G. Functioning of the labor market. *J. Farm Econ.* 33:75-89. Feb. 1951. 280.8 J822  
Includes discussion by L. S. Hardin.
- 48302 LESLIE, N. "Hot milk" issue—dairymen charge secondary boycott, hot cargo tactics in fight with AFL. *West. Dairy J.* 7(5):22,65. Mar. 1, 1951. 44.8 W524
- 48303 LUNDSTRÖM, A. Wages and prices in Sweden. (In Swedish.) *Skog- og Landarb.* 1951:22-23. Feb. 1951. 283.8 Sk5  
Wages of forest and farm labor.
- 48304 MARKOFF, S. Crops and schools. *Natl. Educ. Assoc. NEA J.* 40:179-180. Mar. 1951. 275.9 N21J  
Restriction of employment of children on farms during school hours.
- 48305 MILES, W. H. There's profit in conservation contracting. *West. Farm Life* 53(7):3,18. Apr. 1, 1951. 6 R153
- 48306 MOORAHREND. Landarbeitermangel gefährdet die ernährungssicherung des volkes. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A:355-356. Mar. 8, 1951. 18 L2346
- 48307 MÜLLER, K. Arbeitsproduktivität im rübenbau. *Neue Mitt. f. die Landwirt.* 8:166-167. Mar. 17, 1951. 18 N39  
Germany.
- 48308 NEKRASOVA, O. N., and VASIL'EV, D. G. Raschet oplyat truda kombainov v sovkhovakh ministerstva sovkhovov SSSR [Computing the payment for labor of workers on combines on the State farms of the Ministry of State Farms of U. S. S. R.]. *Moskva, Gosstatizdat, 1950* 39 p. 283 N31
- 48309 NIKLAS, W. Erzeugung und lohn. *Deut. Landwirt. Presse* 74:43. Feb. 17, 1951. 18 D482
- 48310 PEARSON, F. A., MYERS, W. I., and WARREN, S. W. Effect of inflation on different classes of workers. *N. Y. Agr. Col. Farm Econ.* 178:4635-4636. Feb. 1951. 280.8 C812
- 48311 PIEL-DESRUISSEAU, M. J. L'organisation du travail en agriculture. *Agriculture [Paris]* 15(121):37-39, 41. Feb. 1951. 14 Ag823
- 48312 PIKE, H. How to keep a hired man happy and how to keep happy yourself; reach an agreement, and then put it down in writing. *Farm J.* 65(4):37. Apr. 1951. 6 F2212
- 48313 RAUTERBERG, M. Die arbeitskräfte der land- und forstwirtschaftlichen betriebe. *Wirt. u. Statis.* 2:111-117. July 1950. 265 St22  
Germany.
- 48314 SAMSON, A. Esclavage. *Cerca* 24(212):9-10. Mar. 1951. 105.3 An4C  
Need for better management of work on the farm.
- 48315 SANDELOM, D. Even more limited opportunities for agricultural technicians; recruitment and placement of managers in agriculture. (In Swedish.) *Lantman-nen* 35:200-201. Mar. 10, 1951. 11 L234
- 48316 SANDIFER, T. N. Manpower shortage threatens agriculture. *Natl. Live Stock Prod.* 29(7):12,17. Apr. 1951. 280.38 N21
- 48317 SCHRÖDER, M. Über das problem der arbeitsproduktivität in der landwirtschaft. *Neue Mitt. f. die Landwirt.* 6:87-88, 107-108. Feb. 10-17, 1951. 18 N39  
Germany.
- 48318 STEWART, R. D. Dairy farm labor-agricultural selective service deferment. *Guernsey Breeders' J.* [Peterborough] 81:1029, 1044. Apr. 4, 1951. 43.8 G93
- 48319 TAYLOR, H. P. Just what does "area of production" mean? *Canner* 112(15):12, 14, 23-24. Apr. 14, 1951. 286.83 C16  
Under wage legislation.
- 48320 TAYLOR, M. C. A note on "underemployment" in agriculture. *J. Farm Econ.* 33:140-143. Feb. 1951. 280.8 J822
- 48321 TIKHONOV, L. S. On supplementary payment of labor of collective farm beekeepers. (In Russian.) *Pchelovodstvo* 27:519-522. Oct. 1950. 424.8 P295
- 48322 U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm wage rates by States, revised, 1910-1948. *Washington, 1951.* 73 p. 1.941 R3F2227  
Statistics on farm wage rates.
- 48323 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Farm labor investigations. Hearings, 81st Cong., 2d sess., Oct. 2, 1950, at Greenville, Miss., Oct. 4, 1950, at Memphis, Tenn., and Dec. 18, 1950, at Midland, Tex. *Washington, 1951.* 260 p.

# AGRICULTURE - SITUATION, POLICIES, AND PROGRAMS

- 48324 ADAIR, W. Retrospect 1950. *Farming News & No. Brit. Agr.* 103:17-19. Jan. 1, 1951. 10 N82  
Events in British farming.
- 48325 AGRICULTURE in 1950. *Fed. Reserve Bank San Francisco. Mon. Rev.* 1951:21-24. Feb. 1951. 284.8 F31S
- 48326 AIKEN, G. D. Agricultural progress in U. S. outstrips rest of world 100-1. (Digest.) *Dairymen's League News* 35(8):9, 19. Apr. 17, 1951. 44.8 D1432
- 48327 ARGENTINE REPUBLIC. CONTROL DE ESTADO. *La Nación Argentina; justa, libre, soberana.* Ed. 3. n.p., 1950. 802 p. 280.161 Ar32  
Includes agriculture.
- 48328 ARKANSAS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Arkansas farmers stand ready. *Ark. Agr. Col. Ext. C.* 470, 14 p. Dec. 1950. 275.29 Ar4  
What Arkansas farm people have accomplished during the past year.
- 48329 AUSTRIA. BUNDESKANZLERAMT. The Austrian investment program 1950/52. *Vienna, 1950.* 204 p. 280.177 Au72  
Includes agriculture and forestry.
- 48330 BALDASSINI, C. State intervention in agriculture. (In Italian.) *Almanacco Agr.* (1951) 62:177-180. 1950. 16 AL6  
Italy.
- 48331 BELGISCH-NEDERLANDS-LUXEMBURGS INTERPARLEMENTAIRE UNIE. 4<sup>e</sup> conférence, Brussel, juli 1950 [4th conference, Brussels, July 1950]. *Brussel, 1950.* 19 p. 29 B41  
Agricultural.
- 48332 BISSONNET, A. P. Agriculture featured in six-year plan for Pakistan development. *Foreign Trade* 9:205-208. Feb. 10, 1951. 286.8 C162
- 48333 BRANDT, J. Strength through production. (Excerpts.) *DPMA News* 11(6):8-9. Mar. 1951. 280.28 D144  
Agricultural.
- 48334 BRANNAN, C. F. Defense production guides important for co-ops too. *News Farmer Coop.* 18:4. Apr. 1951. 166.2 N47
- 48335 BRANNAN, C. F. Mobilizing our farm power. *Sho-Me Live Wire* 2(6):2, 6. Mar. 20, 1951. 335.8 Sh7
- 48336 BRANNAN, C. F. Production to meet the test. *Washington, U. S. D. A., Off. Sec., 1951.* 11 p. 1.91 A2B73  
Talk at conference of Agricultural Mobilization Committee in Des Moines, Apr. 7, 1951.
- 48337 CALLAGHAN, A. R. South Australia's agricultural industries; developments in 1950. *So. Austral. Dept. Agr. J.* 54:167-179. Nov. 1950. 23 So84  
Significant trends in primary production, notably the pronounced swing towards woolgrowing at the expense of meat and dairy production.
- 48338 CALZECCHI-ONESTI, A. Direct cultivators to the fore in the defense of production, liberty, and peace. (In Italian.) *Gior. di Agr.* 61:65. Mar. 4, 1951. 16 ItIG  
Survey of the fifth National Conference of Direct Producers in Italy.
- 48339 CANADA. DEPT. OF AGRICULTURE. The agricultural outlook for Canada, 1951. *Ottawa, 1951.* 8 p.-folder. 281.8 Ag852
- 48340 CASTILLO, C. M. El Fair Deal y la política económico-agrícola en los Estados Unidos. *Costa Rica. Ofic. de Coordinación Econ. Solidarismo y Racionalización* 3(20):8-10. (To be cont.) Nov./Dec. 1950. 280.9 C82
- 48341 CHATER, S. W. Farmers in wartime. (In Afrikaans.) *Primary Prod. [Cape Town]* 27(5):17. Mar. 9, 1951. 281.8 P93  
Union of South Africa.
- 48342 CHENEY, D. H. Agricultural problems discussed during West Indian conference. *Foreign Trade* 9:230-232. Feb. 10, 1951. 286.8 C162  
Reports on fourth session of the West Indian Conference of the Caribbean Commission.
- 48343 CLEMENT, L. Le premier concours général agricole de Paris d'après-guerre, 28 février-5 mars 1951. *Culture* 26:11-12. Feb. 1951. 14 C894
- 48344 CONGRESSO AGRARIO NAZIONALE, TURIN, 1948. Atti e relazione sul Concorso Internazionale per Motocoltivatori [Acts; and report on the International Garden Tractor Competition]. *Torino, I.T.E.R., 1950.* 688 p. 27 C7625



- 48345 CRIVELLI, F. Chief problems of Trentino economy. (In Italian.) *Almanacco Agr.* (1951)62:27-49. 1950. 16 AL6  
Includes productive capacity in agriculture.
- 48346 DAMBAUGH, L. N. Puerto Rico's ambition. *J. Geog.* 50:89-98. Mar.1951. 278.8 J82  
Agricultural problems.
- 48347 DEETJEN, Der 17. februar—ein schicksalstag unserer landwirtschaft? *Landwirtbl. Weser-Ems* 98:135-137. Feb.15,1951. 18 L2345  
Agricultural policy.
- 48348 DJAMALZADEH, M. A. An outline of the social and economic structure of Iran. I. *Internatl. Labour Rev.* 63:24-39. Jan.1951. 283.8 In8  
Includes agriculture.
- 48349 DOBBY, E. H. G. The Kelantan Delta. *Geog. Rev.* 41:226-255. Apr.1951. 500 Am35G  
Agriculture in Malaya.
- 48350 DONDOLI, C. Zona de Palmares, estudio geográfico. *Suelo Tico* 4:359-370. Nov./Dec.1950. 8 Su2
- 48351 DU PLESSIS, C. VAN H. Rapid economic development of the Union; has agriculture kept pace? (In Afrikaans) *Landbouweekblad* 32(1647):23. Feb.7,1951. 24 L232
- 48352 EASTERBROOK, L. F. Prospect for the land. London, Stationery Off., 1950. 46 p. 32 Ea7  
Prepared by Economic Information Unit and Central Office of Information.
- 48353 EMERY, C. A. "El General Perón basa la política agraria de la nueva Argentina en el justicialismo." *Argentina. Min. de Agr. y Ganad. Not.* 14:67-70. Dec.30, 1950. 9 Ar311N
- 48354 EMERY, C. A. "El justicialismo, tal como lo concebimos, es una nueva filosofía de la vida." *Argentina. Min. de Agr. y Ganad. Not.* 14:71-73. Dec.30, 1950. 9 Ar311N  
Argentine agricultural policy.
- 48355 ERLAND, S. Problems in connection with production changes in agriculture. (In Norwegian.) *Landbrukstidende* 57:23-25,31. (To be cont.) Jan.10,1951. 11 L236  
Norway.
- 48356 FARMERS EDUCATIONAL AND COOPERATIVE UNION OF AMERICA. EASTERN DIV. Farmers Union action program 1951; resolutions adopted at eighth annual convention. *East. Union Farmer* 9(2):4-5. Feb. 1951. 280.28 Ea72
- 48357 FLAVIGNY, P. Les caractères originaux de l'agriculture américaine. *France. Min. de l'Agr. Rev. Études & Monog.* 54:17-28. Jan.1951. 281.8 F84
- 48358 FLEMING, R. The situation facing Americans. More national agricultural leaders are preaching the basic fundamentals of which the American Farm Bureau has been convinced for some time. *Amer. Egg & Poultry Rev.* 12(3):56-60. Mar.1951. 47.8 Am38
- 48359 FOOD and agriculture in Pakistan. *Agr. Pakistan* 1:257-268. 1950. 22 Ag832
- 48360 FOUCAULT, H. DE. Quelques aspects de l'agriculture à l'Île de Jersey. *Agro d'Angers* 29(275):7-13. Jan.1951. 105.3 An4
- 48361 FRANCE. DIRECTION DE LA DOCUMENTATION. L'économie du Venezuela. *France. Dir. de la Doc. Notes et Études Doc.* 1435,28 p. Feb.17,1951. 280.9 F843  
Includes agriculture and forestry.
- 48362 FRANCE. DIRECTION DE LA DOCUMENTATION. La République d'Haïti. *France. Dir. de la Doc. Notes et Études Doc.* 1441,34 p. Feb.27,1951. 280.9 F843  
Includes agriculture.
- 48363 FRANCE. MINISTÈRE DE L'AGRICULTURE. La mission pilote agricole aux États-Unis. *France. Min. de l'Agr. B. Tech. d'Inform.* 55:727-907. Dec.1950. 14 F844B  
Study made in cooperation with the Economic Cooperation Administration.
- 48364 FUMINSHA. Yushitsu-yo nosakubutsu no saibai [Cultivation of agricultural products for export]. *Tokyo* 1950. 299 p. 34.3 F982
- 48365 GARCIA-BADELL, G. Abu-Zaccaria y los conocimientos agrícolas de los árabes españoles. *Spain. Min. de Agr. Serv. de Capacitación y Propag. B. Bibliog. Agr.* 14:207-212. Oct./Dec.1950. 241 Sp1
- 48366 GARNETT, G. Why farmers have a vital stake in country's "ideological war." *Amer. Farm Bur. Fed. Off. Newslet.* 30(17):2. Apr.23,1951. 280.83 Am3W
- 48367 GARY, H. C. The U.S.S.R.—economic strengths and weaknesses. *Foreign Policy Rpt.* 27:13-23. Ref. Apr.1,1951. 280.9 F76R  
Includes discussion of agriculture.
- 48368 GRAHAM, E. H. Review of agricultural development in 50 years of federation. *Agr. Gaz. N. S. Wales* 62:1-4,28. Jan.1,1951. 23 N472
- 48369 GRANDE, I. Agriculture in South-Trøndelag 1950. (In Norwegian.) *Landbrukstidende* 57:26,29. Jan. 10,1951. 11 L236
- 48370 GRANGIER, B. Alsace! Unité dans la diversité. *Agr. Prat.* 115:69-71. Feb.1951. 14 J82  
Agriculture.
- 48371 GT. BRIT. BOARD OF TRADE. The Philippines; review of commercial conditions. London, H. M. Stationery Off., 1950. 24 p. 273 G79  
Includes agriculture.
- 48372 GUERIN, L. Les services officiels et les institutions professionnelles à la disposition de l'agriculture. *France. Min. de l'Agr. B. Tech. d'Inform.* 55:783-785. Dec.1950. 14 F84B
- 48373 HAASE. Krisenpunkte der ostfriesischen landwirtschaft. *Neue Mitt. f. die Landwirt.* 6:171-172. Mar.17,1951. 18 N39
- 48374 HAMZA, H. E. A. Fertilizing the desert. *Egypt News B.* 1950:7-8. Aug.1950. 110 Eg9B  
Agricultural policy in Egypt.
- 48375 HARRAR, J. G. Programa agrícola mejicano. *Vida Agr. [Lima]* 28(326):21-23,25-27,29,31-33,35-36. Jan.1951. 9.8 V66
- 48376 HEDGES, H. Production for defense, a challenge to co-ops. *News Farmer Coop.* 18:3-4. Apr.1951. 166.2 N47
- 48377 HERRIOT, R. I. The agricultural scene in the United States, United Kingdom, and Australia. So. Austral. Dept. Agr. *J.* 54:267-268. Jan.1951. 23 So84
- 48378 HOBSON, K. Keeping up on the farm outlook. *Wash. State Col. Ext. C.* 188,5 p.-folder. Mar.29,1951. 275.29 W27C
- 48379 HOFSTEE, E. W. Social aspects of agricultural policy. (In Dutch.) *Groninger Landtbl.* 28(50):14. Dec.23, 1950. 12 G892
- 48380 HOLMES, H. C. New horizons for India's agriculture. *U. S. Dept. State. Rec.* 7:28-31. Jan./Feb.1951. 150 R24
- 48381 HUMBERT, W. Voyage d'études agricoles en Angleterre. *Agr. Prat.* 115:78-80. Feb.1951. 14 J82
- 48382 KELLER, H. P. Produktionsrichtung und produktionsbereitschaft in der landwirtschaft. *Schweiz. Landwirt. Monatsh.* 29:37-59. Feb.20,1951. 17 Sch93
- 48383 KHALIL, K. F. Pakistan: portal to progress. *Cotton Trade J. Internatl. Ed.* 31(10):47,53-54,56-57. Mar.9,1951. 72.8 C8214I  
Includes discussion of agriculture and fiber production.
- 48384 KLINE, A. Agriculture and mobilization; an address delivered before the 74th annual convention of the Texas and Southwestern Cattle Raisers Association in Dallas. *Cattleman* 37(11):46,49-50,52,54,56,82,84,86-88. Apr.1951. 49 C29
- 48385 KNIGHT, R. L., and BOYNS, B. M. Agricultural science in the Sudan; a bibliography with abstracts. *Arbroath, Scot., Buncl.* 1950. 251 p. 241 K74
- 48386 KRABBE, N. Could we have been better off now? (In Danish.) *Tolvmandsbladet* 23:4-7. Jan.1951. 11 T58  
Includes agriculture in Denmark.
- 48387 LAGNERT, F. On the question of the localization of agriculture. (In Swedish.) *Svensk Geog. Arsb.* 26: 7-17. Ref. 1950. 502 L972  
English summary.
- 48388 LINGE, A. VAN. Study trip of young farmers to America. (In Dutch.) *Overijsselsch Landtbl.* 33(1593): 2. Feb.24,1951. 12 Ov2
- 48389 LOUISIANA. STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE. DIV. OF AGRICULTURAL EXTENSION. Louisiana farm and home situation for 1951. *La. Agr. Col. Ext., Ext. P.* 1082,12 p.-folder. Dec.1950. 275.29 L93Ep
- 48390 MCFADDEN, A. J. Highlights of IFAP [International Federation of Agricultural Producers] meeting. *Amer. Coop.* 22:53-57. 1950. 280.29 Am3A
- 48391 MCMILLAN, T. E. Where statistics are used unjustly; the farmer pays for his fundamental place in New Zealand's economic structure. *New Zeal. Dairy Exporter* 26(8):67-68. Feb.1951. 44.8 N484
- 48392 MAIER-BODE, F. W. Die OEEC [Office of European Economic Cooperation] und die deutsche landwirtschaft. *Landwirt. Wchnbl. f. Westfalen u. Lippe* 108A: 391-392. Mar.15,1951. 18 L2346
- 48393 MAIR, L. P. Agrarian policy in the British African colonies. (Sum.) *Colon. Rev.* 7:9-12. Mar.1951. 280.8 C71
- 48394 MIELCK, O. 70 prozent wieder erreicht - 80 prozent möglich! *Neue Mitt. f. die Landwirt.* 6:81. Feb. 10,1951. 18 N39  
German agricultural productivity.



- 48395 MONTEIRO, G. V. DO S. Agricultural problems of Cape Verde. (In Portuguese.) Granja [Lisboa] 9: 147-156. July/Sept. 1950. 15.5 G76
- 48396 MOORE, C. H. The defense program—what does it mean to agricultural production in the Southwest? Fed. Reserve Bank Dallas. Mon. Business Rev. 36:29-35. Mar. 1, 1951. 284.8 F31D
- 48397 MORENA, N. Public alimentation. (In Portuguese.) Arq. de Hig. e Saude Pùb. 13(35/38):25-32. 1948, pub. 1950. 449.8 Ar6  
English summary.  
Food and agricultural policy for Brazil.
- 48398 MORLEY-FLETCHER, D. Nigeria goes "N.A. P." [National Agricultural Project]. Gt. Brit. Colon. Devlpmt. Corp. Colon. Devlpmt. 1(4):8-9. Winter 1950/51 280.9 G7933C  
Mechanized farming scheme.
- 48399 MUNTZ, T. G. A. Turkey; economic and commercial conditions in Turkey. London, Bd. of Trade, 1951 (Overseas Econ. Surveys.) 194 p. 269.9 G79  
Includes agriculture.
- 48400 MURAYAMA, T. Agricultural problems in the Indian Union. (In Japanese.) Mon. Rpt. Jap. Cotton Spinning Indus. 50:9-17. Mar. 1951. 304.9 J27M
- 48401 MYERS, W. I. Agricultural outlook for 1951. Flour & Feed 51(11):36. Apr. 1951. 298.8 F66
- 48402 MYERS, W. I. American agriculture at mid-century. N. Y. Agr. Col. Farm Econ. 178:4614-4617. Feb. 1951. 280.8 C812
- 48403 NATIONAL FEDERATION OF YOUNG FARMERS' CLUBS. Dictionary of agricultural terms, English-French, French-English. London, 1950. 45 p. 203 N21
- 48404 NECHAEVA, R. Economy of Albania on a higher level. (In Russian.) Vnesn. Torg. 20(9):1-6. Sept. 1950. 286.8 F762  
Includes discussion of agriculture.
- 48405 NELSON, L. Rural Cuba. Minneapolis, U. Minnesota Press, 1950. 285 p. 281.14 N33
- 48406 NORINSHO KAMBO CHOSAKA. Tenkanki ni tatsu nippon nogyo, sono jittai to shorai [Japanese agriculture at the turning point, its actual state and future]. Tokyo, Jutsugyo no Nippon, 1950. 138 p. 34.3 N77
- 48407 NORTHERN IRELAND. MINISTER OF AGRICULTURE. Signposts for farmers. North. Ireland. Min. Agr. Mon. Rpt. 25:323-325. Mar. 1951. 256.13 Ag82M
- 48408 OJERT, R. Agriculture in Södermanland in the year 1951. (In Swedish.) Skand. Kreatursförsäkringsbol. Månadsbl. 29:17-18. Feb. 1951. 49.9 Sk1
- 48409 OLIVEIRA, B. DE. Contribution to the regional division of the State of Paraná. (In Portuguese.) Rev. Bras. de Geog. 12:55-72. Jan./Mar. 1950. 278.8 R32  
English summary.
- 48410 ORMSBY, H. R. France; a regional and economic geography. Ed. 2, rev. London, Methuen, 1950. 525 p. Ref. 278.174 Or5  
Contains a chapter on agriculture.
- 48411 OSER, J. Agricultural policy and the business cycle. Social Res. 18:32-54. Mar. 1951. 280.8 So19
- 48412 OTSUKI, M. Gendai no tokuno-ka [Model farmers of today]. Tokyo, Kyodo Shuppan-sha, 1950. 313 p. 34.3 Ot7
- 48413 PAN AMERICAN UNION. DIV. OF ECONOMIC RESEARCH. Economic developments in Brazil 1949 - 1950, by J. F. Martínez. Washington, 1950. 69 p. 150.91 Ec7  
Includes agriculture.
- 48414 PFLIMLIN, P. L'agriculture dans l'économie française. (Sum.) Agr. Prat. 115:61-64. Feb. 1951. 14 J82
- 48415 RATINEAU, J. Agriculture et agriculteur américains. France. Min. de l'Agr. B. Tech. d'Inform. 55:729-733. Dec. 1950. 14 F844B
- 48416 RAVENHOLT, A. The Philippines: where did we fall? Foreign Aff. 29:406-416. Apr. 1951. 280.8 F76  
Includes land and agricultural problems.
- 48417 ROTHENBURG, G. Agricultural policy of the Soviet Union in 1950. Wirtschaftsdienst, Eng. Ed. 1951: 18-20. Feb. 1951. 280.8 W74E
- 48418 REED, A. Agriculture in "Little Egypt." Natl. Catholic Rur. Life Conf. [Proc.] Annu. Conv. 28:67, 39, 71, 73, 75, 77, 79. 1950. 281.29 N212  
Illinois.
- 48419 ROBERTS, SIR W. A review of the agricultural problems of West Pakistan. Agr. Pakistan 1:140-145. 1950. 22 Ag832
- 48420 ROBITAILLE, P. Le Nord-Ouest québécois. Rev. d'Oka 25:1-16. Jan./Feb. 1951. 7 Ok1  
Agriculture.
- 48421 SCHILL, L. Kommt eine wende in der agrar-politik? Bauern Ztg. 4(6):1-2. Feb. 9, 1951. 18 B324  
Germany.
- 48422 SCHWENG, L. D. Recent agricultural developments in eastern Europe. J. Farm Econ. 33:40-54. Feb. 1951. 280.8 J822
- 48423 SEEDORF, W. Selbsterhaltung—die vornehmste aufgabe des landvolks. Neue Mitt. f. die Landwirt. 6:195-196. Mar. 31, 1951. 18 N39  
Germany.
- 48424 SJØGARD, M. Agriculture in North-Trøndelag 1950. (In Norwegian.) Landbrukstidende 57:27-28, 33. Jan. 10, 1951. 11 L236
- 48425 SMITH, C. S. First steps on a long road; an interim report on progress under the Hill Farming Act. 3-5. Farmers Wk. [London] 34(11):59, 61; (12):55, 57; (13): 54-55; (14):59, 61; (15):55. Mar. 16-Apr. 13, 1951. 10 F2228
- 48426 SOURDILLAT, J. M. Géographie agricole de la France. Paris, Presses Universitaires de France, 1950. 128 p. (Que Sais-je?) Le Point des Connaissances Actuelles, No. 420) 278.174 So8
- 48427 STALLINGA, G. Aspects of American agriculture. II. (In Dutch.) Friesch Landtbl. 48:72-73. Feb. 2, 1951. 12 F91
- 48428 STEDING. Hoher ertrag je hektar oder je mann? Neue Mitt. f. die Landwirt. 6:145. Mar. 10, 1951. 18 N39  
Germany.
- 48429 STOCKHOLM. KONJUNKTURINSTITUT. Översikt över det ekonomiska läget 1951. (National budget for 1951) [A review of the economic situation 1951. (The Swedish national budget for the year 1951)]. Konjunkturinst. Meddel. Ser. B 12, 139 p. 1951. 280.9 St6  
English summary.  
Includes agriculture and foreign trade.
- 48430 THOMAS, A. S. New farm laws reviewed. Hoosier Farmer 36(4):10-11, 20. Apr. 1951. 280.82 H76
- 48431 TORRES FILHO, A. A glance at rural production. (In Portuguese.) Lavoura 54:17-22. Nov./Dec. 1950. 9.2 L39  
Brazil.
- 48432 TORRES FILHO, A. Policy for agriculture. (In Portuguese.) Seleç. Agr. 6(57):5-10. Jan. 1951. 9.2 Se4  
Brazil.
- 48433 TREGASKES, S. G. South African agricultural output achieved records in past year. Foreign Trade 9: 605-607. Apr. 14, 1951. 286.8 C162
- 48434 TUGAUT, J. Les résultats des exploitations agricoles américaines. France. Min. de l'Agr. B. Tech. d'Inform. 55:769-781. Dec. 1950. 14 F844B  
Agricultural productivity and costs and returns.
- 48435 U. S. S. R. UPRAVLENIE OPTOVOI KNIZH-NOI TORGOVLI, "SOFUZOPTKNIGOTORG". V pomoshch agrotekhuchebe [An aid in agricultural technical training] Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 29 p. 241 Un39  
A bibliography.
- 48436 U. S. DEPT. OF AGRICULTURE. OFF. OF THE SOLICITOR. Background and summary of legislation relating to agricultural adjustment, conservation, crop insurance, price control, and labor programs. Washington, 1951? 37 p. 1.918 B12
- 48437 VALEO, F. R., and CURTIS, J. C. Far Eastern economic development and the West Coast economy. U. S. Libr. Cong. Leg. Ref. Serv. Pub. Aff. B. 84, 83 p. June 1950. 280.9 Un31  
Contains a chapter on food and agriculture.
- 48438 VINK, A. P. A. Report of a tour of West Borneo. (In Dutch.) Bergcultures 20:47-49, 51, 53. Feb. 1, 1951. 22.5 B45  
Agriculture.
- 48439 VISSER, S. H. La politique agricole néerlandaise. Soc. Belge d'Etudes et d'Expansion. B. Bmes. 50 (144):113-117. Jan./Feb. 1951. 280.8 So17
- 48440 WALLS, C. E. S. Foundation for agricultural policy for British Columbia is being laid. Country Life [Vernon] 35(3):5, 12, i.e. 9, 16. Mar. 1951. 7 C832
- 48441 WEILL, G., and DELIGNIERES, B. Différentes formes d'interventions de l'état moderne sur le régime agraire. France. Min. de l'Agr. Rev. Études & Monog. 54:1-2, 4-16. Jan. 1951. 281.8 F84
- 48442 ZANINI, E. The real possibilities of the South in the conclusions of fifty years of experience. (In Italian.) Gior. di Agr. 61:76. Mar. 11, 1951. 16 ItiG  
Agriculture in Italy.
- 48443 ZUUR, A. J. What can agriculture of the East Polder expect? (In Dutch.) Friesch Landtbl. 48:103. Feb. 16, 1951. 12 F91



Subsidies

48444 HARS DORF, FREIHERR VON. Ein vorschlag: prämlen für höhere leistung. Neue Mitt. f. die Landwirt. 6:165-166. Mar.17,1951. 18 N39

Subsidies in Germany.

48445 PORTER, P. R. Greek farmers, too; seek subsidies as nation rebuilds its economy. Cotton Trade J. 31(16):10. Apr.13,1951. 72.8 C8214

48446 SWEDEN. LANTBRUKSSTYRELSEN. Den med statsmedel understödda hästpremieringen m. m. under år 1950 [State subsidized awards for horse breeding, etc., during the year 1950]. Sweden. Lantbrstyr. Meddel. Ser. B: Lantbravd. 7,134 p. 1951. 11 Sw3Me

48447 TÖRNQVIST, E. Government subsidies in Finland. Unitas 1950:85-88. Nov.1950. 286.8 Un32

## COST AND STANDARD OF LIVING

48448 LONGMORE, T. W., and TAYLOR, C. C. Elasticities of expenditures for farm family living, farm production, and savings, United States, 1946. J. Farm Econ. 33:1-19. Feb.1951. 280.8 J822

48449 OHIO. STATE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1951 farm business and family living prospects. Leaders handbook. Columbus,1950? 77 p. 275.2 Oh32Ofb

## FARM MANAGEMENT AND LAND ECONOMICS

48450 ABROSIMOV, I. I. Za dal'neishii rost krupnogo kollektivnogo khoz'fistva [For further growth of large scale collective farming]. Iaroslav', Iaroslavskoe Obl. Gos. Izd-vo,1950. 19 p. 281.179 Ab86

48451 ANDERSON, K. Preparations for becoming established. Amer. Coop. 22:744-745. 1950. 280.29 Am3A

48452 BARCELÓ GARCIA DE PAREDES, A. Escasez de la carne en el mercado. Cult. Mod. 34:12. Jan.1951. 15 C89

Management in poultry hatching.

48453 BARNES, C. P. The South and the Nation's farm land requirements. In Institute on Regional Development of the Southeast, 1949. [Report], p.56-65. Knoxville,1950. 280.9 In73

48454 BARRINGTON, A. C. The Riverside community. Coop. Living 2(2):12-13. Winter 1950/1951. 280.28 C7871

Cooperative farming in New Zealand.

48455 BEKKHUS, J. J. Farm management problems. IV. (In Norwegian.) Norsk Landbr. 17:94-95. Mar.2,1951 11 N8122

48456 BEREZIN, S. K. K novym uspekham kolkhoznogo proizvodstva [Toward new achievements in collective farm production]. Iaroslav', Iaroslavskoe Obl. Gos. Izd-vo,1950. 19 p. 281.179 B45

48457 BERRY, J. Ways in which youth become established. Amer. Coop. 22:743-744. 1950. 280.29 Am3A

On the farm.

48458 BREWSTER, J. M. Farm technological advances and total population growth. J. Farm Econ. 33:129-130. Feb.1951. 280.8 J822

48459 COLORADO. STATE BOARD OF LAND COMMISSIONERS. Biennial report, July 1, 1948, to June 30, 1950. Denver,1950. 41 p. 252.11 L22R

48460 CONKLIN, G. L. A study of farm management in Livingston County, New York. N. Y. Agr. Col. Farm Econ. 179:4648-4649. Mar.1951. 280.8 C812

48461 CORRIGONI, L. The notice. (In Italian.) Gior. di Agr. 61:73. Mar.11,1951. 16 R1G

Italian sharefarming.

48462 DALBERG, P. M. Specialization in grain production. (In Norwegian.) Norsk Landbr. 17:85-87. Mar. 2,1951. 11 N8122

48463 DANIELUK, J. P. The Calumet Farm. (In Portuguese.) Fazenda 46(2):22-24. Feb.1951. 6 H11P

48464 DIMITROV, G. M. The collectivization of agriculture in Bulgaria. Internat. Peasant Union. B. 1(2):6-12. Mar.1950. 280.9 In822

48465 FELTON, R. A. Land is the tie that binds. Capper's Farmer 62(5):19,76. May 1951. 6 M693

An Iowa church-farm program that helps young people get a start in farming.

48466 GILL, T. Land hunger in Mexico. Washington, Charles Lathrop Pack Forestry Foundation,1951. 86 p. Ref. 279.14 G41

48467 GODOYO, R. P. Intensive food production. Agr. & Indus. Life 13(2):7,25. Feb.1951. 25 Ag8

Philippine Republic.

48468 GOVIN, L. Une ferme au Middle-West. Géogr. Rur. 44:89-93. Mar.1951. 58.8 Au8

48469 GRESHAM, A. J. N.S.W. dairy farm competition, 1950; outstanding example of subdivision and pasture improvement. Milk Bd. J. 1:648-649. Dec.15,1950. 44.8 M5934

48470 HALL, H. A follow-up study of American farmers in Georgia. Agr. Educ. Mag. 23:233. Apr.1951. 275.8 Ag8

48471 HALLEMA, A. Former Frisian cloisters and Frisian farming in the 16th Century. (In Dutch.) Friesch Landtbl. 48:84. Feb.9,1951. 12 F91

48472 HANNERBERG, D. The rationalization of Swedish farming in respect of size and form, from the mediaeval "solskiftet" ("sun division") to the Agricultural Reform Act of 1947. Some reflections on changes in the cultural landscape. (In Swedish.) Svensk Geog. Årb. 26:155-176. 1950. 502 L972

English summary.

48473 HARWOOD, L. W. Observations on indigenous systems of agriculture. Fiji. Dept. Agr. Agr. J. 21(1/2): 3-9. Mar./June 1950. 25 F47Ag

48474 HENDRIX, W. E. Availability of capital and production innovations on low-income farms. J. Farm Econ. 33:66-74. Feb.1951. 280.8 J822

48475 HOMAN, J. L. A possible question. (In Dutch.) Overijsselsch Landtbl. 33(1593):3. Feb.24,1951. 12 Ov2

Large-scale farming methods.

48476 ISAKSEN, F. Management and returns. (In Norwegian.) Produzenten 19(2):9,12-13. Feb.1951. 11 P94

Norway.

48477 JACKSON, P. M. Morris is farming by a careful plan. South. Planter 112(3):12,27. Mar.1951. 6 So89

Management of a farm in Virginia.

48478 JACOBS, H. A. A practical guide for the beginning farmer. New York, Harper,1951. 237 p. Ref. 31.3 J15

48479 JONES, L. W., and NEAL, E. E. A proposed function for the small farm in southern agriculture. Rur. Sociol. 16:66-69. Mar.1951. 281.28 R88

48480 KING, C. J. New South Wales agriculture, 1900-1950; closer settlement has consolidated our rural industries. Agr. Gaz. N. S. Wales 62:5-10,32-33. Jan.1, 1951. 23 N472

48481 KOMORI, K. Susumu noson to atarashii nogyo [Advancing farm-villages and new management of agriculture]. Hokkaido, Hokkaido Shuppansha,1950. 458 p. 34.3 K832

48482 KOYLÜ, K. La formation du capital dans les petites exploitations agricoles en Turquie. (In Turkish.) Türkiye Cumhuriyeti Ziraat Bankası. Uç Ayda Bir Çıkar 1950:107-115. Apr./June 1950. 280.9 T842

48483 KUZ'MICHEV, A. V., and POL'IANOVSKII, V. N. Rekordy sovkhov "Karavaevo" [Records of Karavaevo State Farm]. Moskva, Gos. Izd-vo Selkhoz Lit-ry,1950. 134 p. 43 K962

48484 LIPPMANN, K. Der weg unserer landwirtschaft. Deut. Landwirt. Presse 74:29-30. Feb.3,1951. 18 D482

Need for intensive methods and increase of labor productivity.

48485 LOUISIANA. STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE. DIV. OF AGRICULTURAL EXTENSION. Adjust your farm program to the fifties. La. Agr. Col. Ext., Ext. P. 1078,17 p. Oct. 1950. 275.29 L93Ep

48486 MAAAG, G. Die verschuldung aufhalten! Neue Mitt. f. die Landwirt. 6:186-187. Mar.24,1951. 18 N39

Farm management in Germany.

48487 MCCORMICK, C. J. An excellent living and something more. Washington, U. S. D. A., Off. Sec.,1951. 10 p. 1.91 A2M132

Talk at the Ninth Annual Rural Life Conference of the Rural Life Association, Wilmington, Ohio, Mar. 30, 1951.

Family farming.

48488 MCGURK, J. L. Size of business and its effect on profits, 1907 and 1947. N. Y. Agr. Col. Farm Econ. 179:4650-4651. Mar.1951. 280.8 C812

Farms.

48489 MACKINTOSH, J. Dairy farming and dairy work. Roy. Agr. Soc. Eng. J. 111:176-186. Ref. 1950. 10 R81

48490 MCMILLAN, J. A. Experimental husbandry farms. Roy. Agr. Soc. Eng. J. 111:25-29. 1950. 10 R81

48491 MEDICI, G. Present and future of farm property. (In Italian.) Agenzia Romana Note e Inform. Agr. 1951(18):1-2. Mar.15,1951. 281.8 Ag3

The small farm in Italy.



- 48492 MEL'NIK, M. K., and KULIK, G. K. Achievements of the [sugar] beet state farms. (In Russian.) *Sakh. Promysh.* 24(11):36-39. Nov.1950. 65.8 Sa2  
In diversified farming.
- 48493 MEULEN, J. B. VAN DER. Intensification of agriculture and its influence on labor performance. (In Dutch.) *Friesch Landbbl.* 48:115. Feb.23,1951. 12 F91
- 48494 MOZZHUKHIN, A. A. Na vernom puti [On the right track]. *Iaroslavl' Iaroslavskoe Obl. Gos. Izd.-vo*, 1950. 19 p. 281.179 M87  
Achievements of Tvorchestvo Collective farm.
- 48495 NAUMANN, W. Was lehrt uns der herbst 1950? *Neue Mitt. f. die Landwirt.* 6:21. Jan.13,1951. 18 N39  
Farming procedures in Germany.
- 48496 NIENABER-LOY, W. Was sich im betriebe hier bewährt hat. *Landwirtbl. Weser-Ems* 98:162-164. Feb. 22,1951. 18 L2345  
Farming methods.
- 48497 PEQUIGNOT, R. Comment améliorer nos rendements—en tirant les enseignements de la campagne écolée. *Motorisation Agr.* 6:89,91,93,95. Feb.1951. 58.8 M85  
France.
- 48498 PESTOV, P. Ia. Preimushchestva krupnogo kolkhoza. [Advantages of a large-scale collective farm]. *Iaroslavl' Iaroslavskoe Obl. Gos. Izd.-vo*, 1950. 18 p. 281.179 P43
- 48499 PETERSEN, N. Der ein- und zweimann-bauernhof. *Deut. Landwirt. Presse* 74:82. Mar.3,1951. 18 D482
- 48500 PIEL-DESRUISSEAU, J. La ferme américaine. *France. Min. de l'Agr. B. Tech. d'Inform.* 55:751-767. Dec.1950. 14 F844B
- 48501 RATCHFORD, C. B. A résumé of the material presented at the agricultural clinics. *Tarheel Banker* 29(10):17,28. Apr.1951. 284.8 T17  
Livestock farm management.
- 48502 SCARSETH, G. D. Extra oats for the lead horse. *Nation's Agr.* 26(4):11,20. Apr.1951. 280.82 B89  
Improved farming methods.
- 48503 SCOVILLE, O. J., and HODGES, J. A. Practices and costs on wheat farms in western Kansas, 1947. *Kans. Agr. Expt. Sta.* C. 268,27 p. Dec.1950. 100 K13S  
U. S. Bureau of Agricultural Economics cooperating.
- 48504 SHUTTLEWORTH, D. Plants and animals bred for the Karoo; Grootfontein experiments to increase productivity of natural veld; farming adapted to environment. *Farmer's Wk. [Bloemfontein]* 80:10-11,13. Feb.14,1951. 24 F225
- 48505 SOLARI, G. A. Métodos modernos de la explotación económica del tambo. *Criadores de Holando* 1(11): 27,70-72,74,76-77. July/Aug.1950. 43.8 C86  
Argentina.
- 48506 STETSON, A. E. Illinois farms rank first. *Natl. Catholic Rur. Life Conf. [Proc.] Annu. Conv.* 28:81, 83,85,87,89,91,93-94. 1950. 281.29 N212
- 48507 SWECKER, J. B. West Virginia veterans making progress toward establishment in farming. *Agr. Educ. Mag.* 23:226,228. Apr.1951. 275.8 Ag8
- 48508 SWEDEN. DOMANSTYRELSEN. Domänverket år 1949 [The Domain Board year 1949]. *Stockholm*, 1950. 116 p. 99.9 Sw33  
Table of contents also in French.
- 48509 SYMPOSIUM No. 6: youth becomes established in farming. *Amer. Coop.* 22:739-745. 1950. 280.29 Am3A  
V. Livingston, chairman.
- 48510 TASKER, J. Urban farming. *Gt. Brit. Min. Agr. Agriculture* 57:569-573. Mar.1951. 10 G79J
- 48511 TYRER, T. G. Dairying—in the tough way. *New Zeal. Dairy Exporter* 26(8):6-7,9-11. Feb.1951. 44.8 N484  
Description of farm management.
- 48512 UNDERWOOD, F. L. Points of view in land economics and farm management research. *J. Farm Econ.* 33:123-129. Feb.1951. 280.8 J822
- 48513 UNITED NATIONS. United Nations European social welfare seminar, Paris, 28 November to 10 December 1949. *United Nations. Tech. Asst. Social Prog.* 4, 102 p. 1950. 280.9 Un3659T  
Land policy and rural housing included.
- 48514 VIGGIANI, G. An example in Lucania of what share farming can be. (In Italian.) *Italia Agr.* 88:113-115. Feb.1951. 16 H1
- 48515 WALL, P. F. Small farms have possibilities; methods by which a comfortable living can be made on fifty to a hundred morgen of land. *Farmer's Wk. [Bloemfontein]* 80:10-11,13. Mar.7,1951. 24 F225  
In South Africa.
- 48516 WARE, R. R. Estate management for the farmer. *London, Bles*, 1950. 147 p. 281.171 W22
- 48517 WATANABE, T. *Nogyo keieigaku* [Method of agricultural management]. Sapporo, Japan, Hokuho Shuppan-sha, 1950. 149 p. 281 W293
- 48518 WIECHELT, H. Wunschanbauplan zur ernste 1952. *Status. Praxis* 6:12-13. Jan.1951. 251.8 St25  
Germany.
- 48519 YOHE, R. S. Egypt's farmer, good fellow of the Nile. *Co-op Grain Q.* 9:63-65. Spring 1951. 280.28 C7898  
Farming methods.

### Bookkeeping and Records

48520 ALLISON, J. Office routine in agriculture; the mysteries of farm book-keeping. *Farming News & No. Brit. Agr.* 103:26-27,97-100. Jan.1,1951. 10 N82

48521 MONDIN, G. F. More on rural accounting. (In Portuguese.) *Fed. das Assoc. Rur. do R. G. do Sul. B.* 10(93):4-7. Dec.1950. 9.2 F31

48522 NORDSTRÖM, O. The private archives and their value as sources from the geographical point of view. (In Swedish.) *Svensk Geog. Årsb.* 26:18-25. 1950. 502 L972

English summary.

Farm records.

48523 O'CONNELL, E. J. Farm accounting an educational tool. *Agr. Educ. Mag.* 23:225. Apr.1951. 275.8 Ag8

### Costs and Returns

48524 ANTONSEN, H. Returns in livestock farming. (In Danish.) *Dansk Landbr.* 70:152-153. Mar.29,1951. 280.28 V91

48525 BENNET, L. G. The economics of tomato growing. *Grower* [London] 35:563,565. Mar.17,1951. 286.83 M34

Costs and returns in England.

48526 BROCKETT, J. E. New Jersey county offers interesting poultry budget figures and estimates. *Fla. Poultry & Dairy J.* 17(4):6,9. Apr.1951. 47.8 F66  
Atlantic County; costs and returns.

48527 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Boysenberry production costs San Bernardino County, 1950, by W. Sullivan and G. Bowman. *Berkeley*, 1951? 8 p. 275.29 C12En

48528 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Butte County second annual poultry management study, 1950, by A. D. Reed and A. W. Mitchell. *Berkeley*, 1951? 6 p. 275.29 C12En

Costs and returns.

48529 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Does poultry pay? Report of ninth annual Alameda County poultry management study 1950, by A. D. Reed and S. Coates. *Berkeley*, 1951? 13 p. 275.29 C12En

Costs and returns.

48530 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Farm enterprise management studies in California in 1949 and some 1950 studies, surveys, and other reports, by A. Shultis, B. B. Burlingame, W. Sullivan, and A. D. Reed. *Berkeley*, 1950. 7 p. 275.29 C12E  
Cost of production and income.

48531 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Lassen County poultry management study 1950, by A. D. Reed and P. W. Lamborn. *Berkeley*, 1951. 5 p. 275.29 C12En  
Costs and returns.

48532 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Los Angeles County poultry meat study—Antelope Valley, 1950. *Berkeley*, 1951? 2 p. 275.29 C12En

48533 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1950 poultry management study San Diego County, by R. H. Adolph and A. D. Reed. *Berkeley*, 1951? 5 p. 275.29 C12En

Costs and returns.

48534 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Rabbit cost study for San Bernardino County, 1950, by W. Sullivan and L. M. Harwood. *Berkeley*, 1951? 6 p. 275.29 C12En

48535 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Red kidney bean cost and management study, San Joaquin County, 1949, by H. L. Miller, R. S. Baskett, and B. B. Burlingame. *Berkeley*, 1951? 12 p. 275.29 C12En



- 48536 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. San Luis Obispo poultry management study, 1950, by A. D. Reed and D. C. Ambrose. Berkeley?1951? 4 p. 275.29 C12En  
Costs and returns.
- 48537 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 2nd poultry management study Santa Clara County, 1950, by A. Shultis and W. R. Corrin. Berkeley?1951? 7 p. 275.29 C12En  
Costs and returns.
- 48537 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Third annual report Monterey and Santa Cruz Counties poultry management study, 1950, by A. Shultis. Berkeley?1951? 10 p. 275.29 C12En  
Costs and returns.
- 48538 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Third annual report Tulare County poultry management study for the year 1950, by B. B. Burlingame and W. F. Rooney. Berkeley?1951? 6 p. 275.29 C12En
- 48539 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Twentieth annual San Bernardino County poultry management study 1950, by A. D. Reed and J. Hertel. Berkeley?1951? 8 p. 275.29 C12En
- 48540 DENMARK. LANDØKONOMISKE DRIFTSBUR. Undersøgelser over landbrugets driftsforhold XXXIV. Regnskabsresultater fra danske landbrug i året 1949-50 [Investigations of agricultural management. XXXIV. Accounting results of Danish agriculture in the year 1949-50]. 1. København, 1950. 73 p. 11 D414  
Costs and returns.
- 48541 DIEST-KÖRBER, VON. Vom reinertrag im bäuerlichen betrieb. Neue Mitt. f. die Landwirt. 6:163-164. Mar.17, 1951. 18 N39  
Germany.
- 48542 DOAK, T. E. Factors affecting annual changes in milk production in the Northeast. N. Y. Agr. Col. Farm Econ. 179:4646-4647. Mar.1951. 280.8 C812  
Includes costs and returns.
- 48543 DUTHIE, W. B. Report on financial results of 54 East of Scotland farms for 1948-49, comprising group I-30 hill sheep farms, group II-24 stock rearing farms. Edinb. & East Scot. Col. Agr. B. 22,35 p. June 1950. 103 Ed4E
- 48544 FOREMAN, W. J., and HISCOCKS, G. A. An economic analysis of some empirical data on crop rotations. J. Farm Econ. 33:143-147. Feb.1951. 280.8 J822  
Yields in relation to prices.
- 48545 HAUSHOFER, H. Wir brauchen produktionskostenberechnungen. Neue Mitt. f. die Landwirt. 6:113. Feb.24, 1951. 18 N39  
Germany.
- 48546 HEGHE, M. VAN. Adaptation de l'élevage bovin. Agriculteur 55(8):5-7. Feb.25, 1951. 13 B63P  
Costs and returns.
- 48547 HORRING, J. Minister and L.E.I. [Landbouw-Economisch Instituut] on calculation of cost price of milk. (In Dutch.) Friesch Landbbl. 48:90-91. Feb.9, 1951. 12 F91
- 48548 HYER, E. A. Cost of raising market turkeys in western Oregon, 1949. Oreg. Agr. Expt. Sta. C. Inform. 493,6 p. Apr.1951. 100 Or3C
- 48549 KEARL, C. D. Costs of producing potatoes, 1949. N. Y. Agr. Col. Farm Econ. 179:4651-4653. Mar. 1951. 280.8 C812
- 48550 KLOTZBACH, W. J., and KEARL, C. D. Costs and returns in producing tomatoes, Monroe County, 1950. N. Y. Agr. Col. A. E. 763,14 p. Jan.1951. 281.9 C81
- 48551 LAURSEN, R. Returns on commercial gardening. (In Danish.) Gart.-Tid. 67:161-163. Apr.4, 1951. 80 G192  
Denmark.
- 48552 LEASK, D. M. R. Report on financial results of 184 East of Scotland farms for 1948-49, comprising group III-40 stock raising and feeding farms, group IV-81 arable farms, group V-63 dairy farms. Edinb. & East Scot. Col. Agr. B. 24,46 p. Oct.1950. 103 Ed4E  
Sheep and cattle farms included.
- 48553 LONG, W. H. Profits from sheep on the general farm. Gt. Brit. Min. Agr. Agriculture 57:551-555. Mar.1951. 10 G79J
- 48554 MACOLA, P. An ever present problem: can the cost of milk production be reduced? (In Italian.) Agenzia Romana Note e Inform. Agr. 1951(22):5-7. Apr.2, 1951. 281.8 Ag3
- 48555 MELGAR, H. (HIJO). Cultivo del café en el Departamento Pando. Campo [La Paz] 5(45):55,57. Jan. 1951. 9.1 C15  
Production costs.
- 48556 MEYER, K. Heute noch flachsbau? Neue Mitt. f. die Landwirt. 6:102-103. Feb.17, 1951. 18 N39  
Costs and returns in Germany.
- 48557 MIKHAYLOV, P. N. Methods for further lowering the cost of production in fur-bearing animal farming. (In Russian.) Karakulevodstvo i Zverovodstvo 3(5):40-46. Sept./Oct.1950. 49 K14
- 48558 MISNER, E. G. Computed labor returns to producers from New York pool milk in 1950. N. Y. Agr. Col. A. E. 770,13 p. Mar.1951. 281.9 C81
- 48559 MORALES, J. O., KEEPPER, W. E., and GOMEZ Q., F. Estudio económica de fincas cafetaleras. Hacienda 46(3):34-35. Mar.1951. 6 H11  
Costs and returns in Colombia and Costa Rica.
- Also in Agr. Trop. 7(3):33-38. Mar.1951. 26 Ag8
- 48560 MYRAKER, L. E. Why make milk production unprofitable? (In Norwegian.) Meieriposten 40:93-96. Feb.10, 1951. 44.8 M47
- 48561 PADBERG, K. Der produktionsaufwand der landwirtschaft. Neue Mitt. f. die Landwirt. 6:193-194. Mar.31, 1951. 18 N39  
Farming costs in Germany.
- 48562 PHILLIPS, J. R., and ROWBOTTOM, J. D. Report on costs of milk production for the year ended 30th September 1949. Edinb. & East Scot. Col. Agr. B. 23,32 p. Aug.1950. 103 Ed4E
- 48563 PLAXICO, J. S. Turkey breeding, an economic survey. Va. Agr. Expt. Sta. B. 443,22 p. Dec.1950. 100 V81S  
Includes costs.
- 48564 POU, J. W. Can you meet the dairy price squeeze during 1951? Md. Farmer 35(2):24. Feb.1951. 6 M362
- 48565 REID, I. G. Sheep with profit; the traditional system of folding arable sheep is still declining, but this summary of a recent study of costs and returns carried out by Reading University suggests that with modifications of the old-time method, sheep on the mixed farm can be a profitable enterprise. Farmers Wk. [London] 34(13):53. Mar.30, 1951. 10 F2226
- 48566 SCOVILLE, G. P. Cows versus apples; variability in production. N. Y. Agr. Col. Farm Econ. 179:4642-4645. Mar.1951. 280.8 C812  
Costs and returns.
- 48567 SCOVILLE, G. P. Importance of apple varieties. N. Y. Agr. Col. Farm Econ. 178:4618-4619. Feb. 1951. 280.8 C812  
Costs and returns.
- 48568 SMITH, A. D. B. Milk—looking into the future. Farming News & No. Brit. Agr. 103:32-33,101. Jan.1, 1951. 10 N82  
Costs and returns.
- 48569 TEYAM. Rendements et productivité en industrie laitière. Tech. Lait. 7(75):19,21. Feb.8, 1951. 44.8 Of2  
France.
- 48570 WARSTAT. Konto "Inventarunterhaltung." Neue Mitt. f. die Landwirt. 6:177-178. Mar.24, 1951. 18 N39  
Costs and returns in Germany.
- 48571 WOLF, J. P. M. VAN DER. Grain regulation, 1951 harvest. (In Dutch.) Boer en Tuinder 5(215):3. Mar.3, 1951. 12 B632  
Costs and returns in the Netherlands.
- 48572 YORKE, L. C. The egg-feed ratio. Rev. Mktg. & Agr. Econ. 18:276-281. Dec.1950. 286.8 N47M  
Australia.

#### Land Settlement and Colonization

- 48573 GENERALI, L. Placement as a factor in adaptation of the immigrant. (In Portuguese.) Orientação Econ. e Financ. 8(90):19-20,22. Dec.1950. 280.8 Or42  
Brazil.
- 48574 LAND SETTLEMENT ASSOCIATION. Small-holdings centralized services; report and accounts for 1948-49. London, 1950. 54 p. 282.29 L23A

#### Land Tenure

- 48575 BAVARIA. STATISTISCHES LANDESAMT. Landwirtschaftliche betriebszählung vom 22. mal 1949; die besitzverhältnisse in der land- und forstwirtschaft. Bayer. Statist. Landesamt. Beitr. z. Statist. Bayerns 154, 273 p. 1950. 265 B32S
- 48576 BLACHEZ, P. R. La propriété de la terre et les dernières réformes agraires en Europe. Agr. Prat. 115:85-86. Feb.1951. 14 J82



48577 BOAGA, G. Analytical research on the distribution of land in Italy. (In Italian.) Riv. del Catasto e del Serv. Tec. Erariali (n.s.)5:191-209. (To be cont.) 1950. 280.8 R523

48578 CACERES D., F. La ley de 8 de enero de 1925. Campo [La Paz] 5(45):29. Jan.1951. 9.1 C15  
Legislation preventing the sale and mortgage of native land in Bolivia.

48579 DESCZYK, L. Betriebsgrößenstruktur der deutschen Landwirtschaft (In Westdeutschland unterblieb die Bodenreform). Deut. Wirtinst. Ber. 1(9):1-7. Sept. 1950. 280.9 B453

48580 DIJK, B. VAN. Rents and dike charges. (In Dutch.) Pacht 11:3-7. Jan.1951. 282.8 P11  
Netherlands.

48581 ENDRIZZI, L. The entailed farm. (In Italian.) Agr. Bresciana 4(5):3. Jan.31,1951. 16 Ag89

48582 FÉLICE, P. DE. Dolt-on revenu au fermage 1-9-39? Défense Agr. de la Beauce et du Perche 48:92. Feb.24,1951. 14 D36

48583 FÉLICE, P. DE. L'usage du droit de préemption est question de prix. Défense Agr. de la Beauce et du Perche 48:91-92. Feb.24,1951. 14 D36

48584 GARCIA ISDRO, M. Contratos de aparceria: el célebre artículo 7.º de la ley de 1940. Agricultura [Madrid] 20:70-74. Feb.1951. 15 Ag84

48585 GRONINGER MAATSCAPPIJ VAN LAND-BOUW. PACTCOMMISSIE. Revision of lease legislation; report. (In Dutch.) Groninger Landbbl. 29(7):3-4,13-15. Feb.17,1951. 12 G892

48586 HARRISON, H. H. Year 'round pleasures for sportsmen. Pa. Game News 21(2,spec. issue),127 p. Mar.1951. 412.9 P38Pe

Partial contents: Farmer-sportsmen relation, p.25-30; Farm ponds, p.91-106.

48587 HASEL, L. Wald und Bodenreform in Baden. Allg. Forst- u. Jagdztg. 122:53-58. (To be cont.) 1950. 99.8 AL3

48588 HEWES, L. I., JR. Japan's farmers get land through U. S. reform. Natl. Union Farmer 29(3):7. Mar. 1951. 281.8 N212

48589 KIMURA, Y. Hayawakari shin noch-i-ho [The agriculture land law made easy]. Tokyo, Soryu-sha, 1950. 216 p. 282.183 K57

48590 LEGGE-BOURKE, H. There's a strong case for retaining the part-timers. Smallholder 84(2130):15. Mar.16,1951. 10 Sml  
In Great Britain.

48591 MORTENSEN, T. The battle for the land south of the border. (In Danish.) Tolvmandsbladet 23:7-11. Jan.1951. 11 T58

Agrarian reform in Schleswig-Holstein.

48592 RAPER, A. F. Some recent changes in Japanese village life. Rur. Sociol. 16:3-16. Mar.1951. 281.28 R88

Includes data on the agrarian reform.

48593 RAUTERBERG, M. Die Besitzverhältnisse in den land- und forstwirtschaftlichen Betrieben des Bundesgebietes; weitere ergebnisse der landwirtschaftlichen betriebszählung 1949. Wirt. u. Statist. 2:4-5. Apr.1950. 265 St22

48594 RICCHIONI, V. Land occupations in Apulia. (In Italian.) Gior. degl Econ. (n.s.)9:510-517. Sept./Oct. 1950. 280.8 G43

Land reform history.

48595 RIES, L. W. Gesellschaftsvertrag statt Hofübergabe. Neue Mitt. f. die Landwirt. 6:22-23. Jan.13, 1951. 18 N39

Germany.

48596 ROHWER, R. A. Family factors in tenure experience: Hamilton County, Iowa, 1946. Iowa Agr. Expt. Sta. Res. B. 375:818-872. July 1950. 100 Io9

48597 ROSSI, G. DE. Per la riforma agraria; testo e tabelle statistiche [For the agrarian reform; text and statistical tables]. Roma, 1950? 62 p. (Camera Confederale del Lavoro di Roma e Provincia. Quaderno N. 5) 282.176 R73

48598 SINGH, D. B. Agricultural legislation in recent years. 1-2. India. Dir. Econ. & Statist. Agr. Situation India 5:811-817,897-905. Feb.-Mar.1951. 281.9 In23

Land tenure and management.

48599 SOUTHERN, J. H. Farm land ownership in the Southwest. Ark. Agr. Expt. Sta. B. 502,47 p. Dec.1950. 100 Ar42

48600 SPRING, D. The English landed estate in the age of coal and iron: 1830-1880. J. Econ. Hist. 11:3-24. Winter 1951. 277.8 J822

48601 YOHE, R. S. Would you like to [farm in Britain]. West. Farm Life 53(8):6. Apr.15,1951. 6 R153  
Landlord-tenant provisions of the Agricultural Holding Act.

## Land Utilization

48602 CLARK, K. C. The British Labor Government's Town and Country Planning Act. Polit. Sci. Q. 66: 87-103. Mar.1951. 280.8 P75

48603 FAIRCHILD, H. W. Some relationships between land use and selected natural land types in the Lansing region of Michigan. Mich. U. Microfilm Abs. 11: 199. 1951. 241.8 M58

48604 HARTARD EBERT, M. Distribución de la superficie del país y su aprovechamiento agrícola y forestal. Campesino [Santiago] 83:29,31. Jan.1951. 9.3 So12

48605 NORTH EAST DEVELOPMENT ASSOCIATION. LAND CLASSIFICATION COMMITTEE. A physical land classification of Northumberland, Durham and part of the North Riding of Yorkshire. Newcastle upon Tyne, Eng., 1950. 40 p. 282.171 N81

48606 OGBE, G. A. E. Some notes on land-use by the Mada tribes in Southern Division, Plateau Province. Farm & Forest 10:64-66. 1950. 24 F226  
Nigeria.

48607 ROBUSTELLI, G. P. Land and water utilization and conservation in Italy. Food & Agr. 3:198-201. Oct./Dec.1950. 389.8 F7326

48608 SAILA, F. The cadaster in French Morocco. (In Italian.) Riv. del Catasto e del Serv. Tec. Erariali (n.s.)5: 187-190. 1950. 280.8 R523

48609 TEMPANY, SIR H. Planned land utilisation; developments in British colonies. Agr. Econ. 2(3):5-7. Nov.1950. 281.8 Ag832

48610 WIECHELT, H. Die bedeutung der anbauflächenenermittlung für die landwirtschaftliche produktionsplanung. Statist. Praxis 6:6-8. Jan.1951. 251.8 St25

## Land Values and Valuation

48611 FETT, J. How large a farm should one buy? Amer. Coop. 22:740. 1950. 280.29 Am3A

48612 HAAREN, R. G. VAN. Objective appraisal of farms and the point system. (In Dutch.) Pacht 11:34-41. Ref. Feb.1951. 282.8 P11

48613 METZNER, E. Bildung eines vorläufigen bewertungsbeirats. Neue Mitt. f. die Landwirt. 6:203. Mar.31, 1951. 18 N39

Land and forests in Germany.

48614 SALAZAR MOULIAA, Z. Valoración agrícola y catastro [Agricultural appraisal and cadaster]. Ed. 3, rev. & enl. Madrid, Espasa-Calpe, 1950. 280 p. 281 Sa3

48615 STAUNING, A. Land assessment and value. (In Danish.) Gart.-Tid. 67:112-114. Feb.28,1951. 80 G192  
Denmark.

48616 THOMPSON, M. A. Some questions and answers on where and how to get a farm. U. S. D. A. L. 299,rev.,4 p. Dec.1950. 1 Ag84L

Revision of U. S. Dept. of Agriculture AIS-19.

## POPULATION

48617 HAGERSTRAND, T. A model for comparison between migration-fields and birthplace-fields. (In Swedish.) Svensk Geog. Årsb. 26:177-184. 1950. 502 L972  
English summary.

48618 IRELAND. CENTRAL STATISTICS OFF. Census of population of Ireland, 1946, volume V, part I. Ages, orphanhood and conjugal conditions, classified by areas only. Dublin, 1950. 257 p. 256.12 Ir22

Includes data for rural areas.

48619 LEGENDRE, P. Les migrations rurales en 1949, 1950 et 1951. France. Min. de l'Agr. Inform. Juridique et Sociale 54:1-7. Jan.1951. 281.8 F84

48620 MANGUS, A. R. City folks are going rural. Ohio Farm Bur. News 30(9):17. Apr.1951. 6 Oh34

48621 MOLIN, K. Deserted habitations and depopulation in the parish of Järnboås. (In Swedish.) Svensk Geog. Årsb. 26:102-118. 1950. 502 L972

English summary.

48622 NELSON, H. The cotton crisis and Negro migration in the U. S. A. (In Swedish.) Svensk Geog. Årsb. 26:207-214. 1950. 502 L972

48623 QUENSEL, C. E. The regional distribution of marriages in different types of parishes in Sweden. (In Swedish.) Svensk Geog. Årsb. 26:26-44. 1950. 502 L972  
English summary.

48624 STRONG, T. H., and LEWIS, J. N. The impact of immigration upon rural industries. In Commonwealth Bank of Australia. The impact of immigration, p.8-11. Sydney, 1950. 280.1992 C73

48625 ZWAHLEN, P. W. H. Migration possibilities for flower growers? (In Dutch.) Vakbl. v. de Bloemisterij 6:65. Mar.2,1951. 80 V22



## RURAL SOCIAL ORGANIZATION

- 48626 DUNCAN, O. D., and ARTIS, J. W. Some problems of stratification research. *Rur. Sociol.* 16:17-29. Mar. 1951. 281.28 R88  
Social structure in a small community.
- 48627 GOODWYN, F. Life on the King Ranch. New York, Crowell, 1951. 293 p. Ref. 138 G63
- 48628 GREEN, J. W. Interviewer training for studies using intensive interview techniques. *Rur. Sociol.* 16:69-71. Mar. 1951. 281.28 R88
- 48629 HAGOOD, M. J. New research resources for rural sociologists in the 1950 census; a report for the Rural Sociological Society's Committee on the 1950 Census. *Rur. Sociol.* 16:63-66. Mar. 1951. 281.28 R88
- 48630 MELVIN, B. L. Rural sociology in a chaotic world. *Rur. Sociol.* 16:56-62. Mar. 1951. 281.28 R88
- 48631 NATIONAL CATHOLIC RURAL LIFE CONFERENCE. Twenty-eighth annual convention, October 13-18, 1950, Belleville, Illinois. Washington, 1950. 95 p. 281.29 N212
- 48632 NOGYO FUKKO KAIGI. Nosen no jittai [Actual conditions of farming villages]. Tokyo, Sangen Sha, 1950. 2 v. 281.183 N68
- 48633 PAGE, S. L. The philosophy of rural community life. *Ontario Libr. Rev.* 35:35-40. Feb. 1951. 241.11 C16A
- 48634 PEDERSEN, H. A. Cultural differences in the acceptance of recommended [farming] practices. *Rur. Sociol.* 16:37-49. Mar. 1951. 281.28 R88
- 48635 PERRY, G. S. Tale of a foolish farmer. New York, McGraw-Hill, 1951. 200 p. 281.2 P422  
Farm life in Texas.
- 48636 REES, A. D. Live in a Welsh countryside; a social study of Llanfihangel yng Ngwynfa. Cardiff, U. Wales Press, 1950. 188 p. 281.2 R252
- 48637 SPAULDING, I. A. Serendipity and the rural-urban continuum. *Rur. Sociol.* 16:29-36. Mar. 1951. 281.28 R88
- 48638 VIDART, D. Esquema de una sociología rural uruguaya. XXXII-XXXIV. Uruguay. Min. de Ganad. y Agr. B. Inform. 7(358):4; (359):16; (360):6. Feb. 1-22, 1951. 9.9 G15B

## Human Ecology

- 48639 DELOYE, M. La mise en valeur de la Vallée du Tennessee et les enseignements qu'elle offre à l'Algérie. *Rev. Agr. de l'Afrique du Nord* 48:960-966. Dec. 29, 1950. 80 R326
- 48640 FERRIS, J. P. The TVA approach. In *Institute on Regional Development of the Southeast, 1949. [Report]*, p. 72-83. Knoxville, 1950. 280.9 In73
- 48641 GODLUND, S. The new community division in Sweden. (In Swedish.) *Svensk Geog. Årsb.* 26:195-199. 1950. 502 L972
- 48642 HOWES, R. M. TVA and recreational development in the Southeast. In *Institute on Regional Development of the Southeast, 1949. [Report]*, p. 110-114. Knoxville, 1950. 280.9 In73
- 48643 INSTITUTE ON REGIONAL DEVELOPMENT OF THE SOUTHEAST, 1949. Institute on Regional Development of the Southeast, July 28-29, 1949; [report]. Knoxville, 1950. 125 p. 280.9 In73
- 48644 KIDWELL, J. R. The rural community; rural life at the grass root. San Antonio, Naylor, 1951. 181 p. 281.2 K54
- 48645 LINDSTROM, D. E. The changing rural community in Sweden. *Rur. Sociol.* 16:49-55. Mar. 1951. 281.28 R88
- 48646 LOPES, L. The São Francisco Valley. (In Portuguese.) *Rev. Bras. de Geog.* 12:122-136. Jan./Mar. 1950. 278.8 R32  
Regional planning.
- 48647 MÄDING, E. Verwaltungsaufbau und organisationen der landespflege in der Bundesrepublik Deutschland. *Inst. f. Raumforsch. Mitt.* 4, 33 p. 1950. 280.9 B643
- 48648 MANNERS, R. A. Culture and agriculture in an eastern highland community of Puerto Rico. *Mich. U. Microfilm Abs.* 11:12-13. 1951. 241.8 M58
- 48649 SUMPTION, M. R. The little red school house as a community center. *Ill. Agr. Assoc. Rec.* 29(2):10. Feb. 1951. 6 IL62

## Institutions

- 48650 AHALT, A. M. Twenty questions for teachers—did you start right? *Agr. Educ. Mag.* 23:239. Apr. 1951. 275.8 Ag8

- 48651 BARBUT. Le cinquantenaire de l'École Coloniale d'Agriculture de Tunis. Colon Franç. de Tunisie (ser. 7) 60(2145):1-2. May 20, 1950. 24 C712
- 48652 BECKER. Wir brauchen nachwuchs an landwirtschaftlichen berufsschullehrerinnen. *Bad. Landwirt. Wchnbl.* 118:142. Mar. 3, 1951. 18 B142
- 48653 BESEMER, E. I. Use of progress report records. *Agr. Educ. Mag.* 23:228, 239. Apr. 1951. 275.8 Ag8
- 48654 BIERI, H. Die landwirtschaftliche berufslehre. Zollikofen, Oekonomische und Gemeinnützige Gesellschaft des Kantons Bern, 1950. 27 p. 33.21 B472
- 48655 BLANCHARD, J. R. Agricultural libraries. *Spec. Libr.* 42:93-95. Mar. 1951. 243.8 Sp3  
Recommendations of the American Library Association committee to study services in the U. S. Department of Agriculture and other agricultural libraries.
- 48656 BLODGETT, L. Q. To give more rural children a chance to attend school. *Child* 15:133-134. Mar. 1951. 158.2 C483
- 48657 BOATMAN, J. L. The State, county and Federal approach. In *Institute on Regional Development of the Southeast, 1949. [Report]*, p. 66-71. Knoxville, 1950. 280.9 In73  
Cooperative extension work.
- 48658 BOWMAN, D. A. Youth charters its course—response to welcome. *Amer. Coop.* 22:681-682. 1950. 280.29 Am3A  
Training.
- 48659 CALIFORNIA. DEPT. OF FINANCE. FAIRS AND EXPOSITIONS DIV. Master premium list, containing the rules and regulations for entry, exhibit, judging and award and the maximum premiums which may be offered and paid for all classes, sections and types of exhibits as prescribed by the State Department of Finance for district and county fairs pursuant to section 92 of the Agricultural code. Effective Apr. 1, 1950. Sacramento, 1950. various paging. 4.5 C123
- 48660 CERNY, J. The Czech Republican Agrarian Party. *Internat. Peasant Union. B.* 1(2):5-6. (To be cont.) Mar. 1950. 280.9 In822
- 48661 CHUNN, C. C. Effectiveness of I.O.F. [institutional on-farm] training in meeting needs of Negro veterans. *Agr. Educ. Mag.* 23:221, 237. Apr. 1951. 275.8 Ag8
- 48662 CLARK, R. M. Factors associated with decisions of Michigan teachers to remain in or to leave the field of teaching vocational agriculture. *Mich. U. Microfilm Abs.* 11:42-43. 1951. 241.8 M58
- 48663 COCKRELL, N. Keeping informed on new developments. *Amer. Coop.* 22:741-743. 1950. 280.29 Am3A  
Vocational agriculture.
- 48664 COQUERY, P. Les services de vulgarisation aux Etats-Unis. *France. Min. de l'Agr. B. Tech. d'Inform.* 55:843-855. Dec. 1950. 14 F844B
- 48665 DIXON, H. M. Economics extension work—trends and needs. Washington, U. S. Ext. Serv., 1951. 15 p. 1.913 E2D64  
Paper delivered at Agricultural Economics Seminar, Cornell University, Ithaca, Mar. 12, 1951.
- 48666 DÖSCHER, M. Unsere dorfschule. *Neue Mitt. f. die Landwirt.* 6:129-130. Mar. 3, 1951. 18 N39  
Germany.
- 48667 DROZDOV, L., and TETERINA, M. Iunye naturalisty, gotov'tes' k uchastiju na Vsesoiuznoi sel'sko-khozjal'stvennoi vystavke [Young naturalists, prepare yourselves for participation at the All-Union Agricultural Fair]. Moskva, Gos. Izd-vo Detskoi Lit-ry Ministerstva Prosveshcheniya RSFSR, 1950. 62 p. 33.31 D83
- 48668 EGBERT, R. L., and HAWKES, G. R. Use of an orientation inquiry as an aid in predicting success in college agriculture curriculum. *J. Educ. Res.* 44:295-302. Dec. 1950. 275.8 J824
- 48669 EHMAN, F. Iowa's youth program. *Nation's Agr.* 26(4):12, 16. Apr. 1951. 280.82 B89
- 48670 EICHENLAUB, J. E. How to get a doctor. *Farm J.* 65(4):83-86. Apr. 1951. 6 F2212
- 48671 FARM FOUNDATION, CHICAGO. Improving farm life. Chicago, 1950. 23 p. 281.12 F2231  
Work of the Farm Foundation.
- 48672 FERRER, C. M. Rise and growth of rural life movement in the Philippines. *Rur. Missions* 77:3. Winter 1951. 281.28 Ag8  
Social welfare by churches.
- 48673 FIDLER, L. B. Two approaches required in Ohio evaluation of I.O.F. [institutional on-farm] training. *Agr. Educ. Mag.* 23:224, 229. Apr. 1951. 275.8 Ag8  
For veterans.
- 48674 FLAVIGNY, J. Les universités américaines. France. Min. de l'Agr. B. Tech. d'Inform. 55:787-788. Dec. 1950. 14 F844B



- 48675 FONDARD, L. L'allocation de salaire unique aux fils d'exploitants. Révell Agr. 60:34-35. Feb.1,1951. 14 R322  
France.
- 48676 FOWLE, W. Outcomes of the veterans' program. Agr. Educ. Mag. 23:231. Apr.1951. 275.8 Ag8
- 48677 GATES, A. D. The American Medical Association point of view. Amer. Coop. 22:299-302. 1950. 280.29 Am3A  
Rural health.
- 48678 GREER, B. Practice teaching—it can be fun. Agr. Educ. Mag. 23:236. Apr.1951. 275.8 Ag8
- 48679 HAASE, A. Die Landwirtschaftliche Real-schule Lüdinghausen; fortsetzung und weiterentwicklung einer alten tradition. Landwirt. Wehnl. f. Westfalen u. Lippe 108A:281. Feb.22,1951. 18 L2346
- 48680 HAMLIN, H. M. What is of value? A question to be answered before we judge the effectiveness of our teaching. Agr. Educ. Mag. 23:220,229. Apr.1951. 275.8 Ag8
- 48681 HARRIS, R. O. Local progress report on 61 veterans who have completed institutional on-farm training. Agr. Educ. Mag. 23:227. Apr.1951. 275.8 Ag8
- 48682 HASHMI, Z. A. Rural church in the United States of America and its place in agriculture development. Agr. Pakistan 1:231-237. 1950. 22 Ag832
- 48683 HASSAN, A. Dental hygiene as practiced in the rural areas of Egypt. Roy. Egypt. Med. Assoc. J. 33: 844-849. 1950. 448.9 Eg93
- 48684 HILAIRE, P. M. Nos périodiques agricoles du Québec. Rev. d'Oka 25:24. Jan./Feb.1951. 7 Ok1
- 48685 HOLMES, V. Cal-Poly rounds out 50 years of distinguished progress. Calif. Dairyman 31(5):28-33. Apr.7,1951. 44.8 C12  
California State Polytechnic College.
- 48686 ISAENKO, N. District [Cherkassy] agricultural fair, [Kiev Region]. (In Russian.) Sovet. Agron. 8(12):44-51. Dec.1950. 20 So84
- 48687 JOHNSTON, H. L. Where are we now? Amer. Coop. 22:283-291. 1950. 280.29 Am3A  
Rural health.
- 48688 JUERGENSEN, E. M., and TARONE, E. A. Teaching tricks and other aids for teachers of vocational agriculture. Danville, Ill., Interstate Printers & Pub., 1950. 139 p. 275.1 J93
- 48689 KNAUS, K. Agricultural extension—what is it? Agr. Pakistan 1:220-224. 1950. 22 Ag832
- 48690 KÖTTNER, G. Aufgaben und bedeutung der landwirtschaftlichen berufsschulen. Milcherzeuger 9:5. Jan.1951. 43.8 M592  
Germany.
- 48691 LAMOREAUX, J. The "farming" Illini. Men who till the prairie soil have a recognized leader in the University of Illinois. Internat. Harvester World 42(3): 2-6. Mar.1951. 58.8 H26
- 48692 LASNIER-LACHAISE, L. L'enseignement féminin rural aux U.S.A. France. Min. de l'Agr. B. Tech. d'Inform. 55:801-815. Dec.1950. 14 F844B
- 48693 LAYCOCK, G. The school that brought a town to life. Country Gent. 121(4):32-33,163-166. Apr.1951. 6 C833  
Consolidated school in Vine Grove, Kentucky.
- 48694 LEWIS, E. A., comp. Laws relating to vocational education and agricultural extension work. Washington, 1951. 231 p. 275 Un34
- 48695 LOFTHUS, J. L. Arrangement of courses at agricultural schools. (In Norwegian.) Norsk Landbr. 17 97-98. Mar.2,1951. 11 N8122
- 48696 MCCLARREN, H. Summary and challenge of youth conference. Amer. Coop. 22:761-764. 1950. 280.29 Am3A
- 48697 MACEWAN, J. W. G. Agriculture on parade; the story of the fairs and exhibitions of western Canada. Toronto, Nelson, 1950. 200 p. 31.2 M15A
- 48698 MARTIN, M. L'enseignement agricole aux U.S.A. France. Min. de l'Agr. B. Tech. d'Inform. 55:789-800. Dec.1950. 14 F844B
- 48699 MELLOR, A. Plan for on-farm teaching this summer. Agr. Educ. Mag. 23:238-239. Apr.1951. 275.8 Ag8
- 48700 MERKIN, J. C. First rural clinic for cripples in South Africa. Farmer's Wk. [Bloemfontein] 80:59. Feb.21,1951. 24 F225
- 48701 MURRAY, M. S. Evaluation of farmer classes. Agr. Educ. Mag. 23:232. Apr.1951. 275.8 Ag8
- 48702 NEBRASKA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Recreation for rural youth. Nebr. Agr. Col. Ext. E. C. 2011, 20 p. Feb.1951. 275.29 N272Ex
- 48703 NEBRASKA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. You can carve! Nebr. Agr. Col. Ext. E. C. 2015,6 p. Feb. 1951. 275.29 N272Ex
- 48704 PFIMLIN. La vulgarisation des techniques agricoles. Agriculture [Paris] 15(121):27-29. Feb.1951. 14 Ag823
- 48705 RASMUSSEN, A. O., and LARSEN, P. H. Education in vocational agriculture in the U. S. A. II. (In Danish.) Tidsskr. f. Landøkon. 1951:113-128. Mar.1951. 11 T43
- 48706 REA, J. Kambini [Portuguese East Africa] grows; our agricultural mission at Kambini after twenty-five years. Rur. Missions 77:1-2. Winter 1951. 281.28 Ag8
- 48707 REBIFFÉ. Role de la femme dans l'agriculture. Défense Agr. de la Beauce et du Perche 48:76-77. Feb.17,1951. 14 D36
- 48708 RHEINWALD, H. Der bäuerliche familienbetrieb in der beratung. Deut. Landwirt. Presse 74:44,61. Feb.17-Mar.3,1951. 18 D482
- 48709 RHEINWALD, H. Die beratung der bäuerin. Neue Mitt. f. die Landwirt. 6:9-12. Jan.6,1951. 18 N39  
Germany.
- 48710 ROYAL Show, Oxford, supplement. Roy. Agr. Soc. Eng. J. 111(sup.),141 p. 1950. 10 R81
- 48711 SAMPLE, G. W. Where are we headed? With Government farm agencies. Hoosier Farmer 36(4):12-13, 18. Apr.1951. 280.82 H76  
Historical.
- 48712 SASMAN, L. M. "This then is your job." Agr. Leaders' Digest 32(4):12. Apr.1951. 275.28 Am3  
Instructors in agriculture.
- 48713 SCHOENE, F. Wer soll die wirtschaftsberatung bezahlen? Neue Mitt. f. die Landwirt. 6:33-34. Jan.20, 1951. 18 N39  
Germany.
- 48714 SCHOOLS for Mexico's future farmers. Mex.-Amer. Rev. 19(2):12,26-27. Feb.1951. 287 M572
- 48715 SILVEIRA, A. H. DA. The value of rural industries. (In Portuguese.) Lavoura 54:36-37. Nov./Dec. 1950. 9.2 L39  
Brazil.
- 48716 STALL, C. W. County coordination. Hoosier Farmer 36(4):13,19. Apr.1951. 280.82 H76  
Agriculture Department agencies.
- 48717 STEVENS, L. Photography is fun; a 4-H Club manual. Okla. Agr. Col. Ext. C. 550,8 p. n.d. 275.29 Ok41C
- 48718 STORMS, D. A. Did we do what we set out to do? Agr. Educ. Mag. 23:232,237. Apr.1951. 275.8 Ag8  
Veteran on-farm training programs.
- 48719 THOMAS, R. Measuring results of teaching farm veterans. Agr. Educ. Mag. 23:222-223,230-231. Apr.1951. 275.8 Ag8
- 48720 U. S. EXTENSION SERV. Extension health education; summary of a round table conference at Kansas City, Missouri, February 5-9, 1950. Washington, 1951. 34 p. 1.913 A5Ex8
- 48721 U. S. EXTENSION SERV. Extension specialists in parent and family life education, child development Washington, 1951. 3 p. 1.913 A2Ex862
- 48722 U. S. EXTENSION SERV. Observance of Rural Life Sunday by 4-H Clubs, 1951, by G. L. Warren. Washington, 1951. 21 p. 1.913 F3Ob7
- 48723 U. S. EXTENSION SERV. Report of International Farm Youth Exchange Project, 1951, by E. W. Aiton. Washington, 1950. 4 p. 1.913 A2R296
- 48724 U. S. EXTENSION SERV. Suggestions for training extension foreign students in States and counties. Washington, 1951. 8 p. 1.913 S2Su36
- 48725 U. S. FEDERAL CIVIL DEFENSE ADMINISTRATION. United States civil defense; health services and special weapons defense. Washington, 1950. 260 p. (Its P. AG-11-1) 173.4 F31  
Includes veterinary services.
- 48726 UTAH. STATE AGRICULTURAL COLLEGE. EXTENSION SERV. Building a better Utah; 1948/50 biennial report. Utah. State Agr. Col. Ext. B. 225,19 p. 1950? 275.29 Ut1
- 48727 VOORHIS, J. What should we be doing in rural health? Amer. Coop. 22:292-298. 1950. 280.29 Am3A
- 48728 WOOD, C. H. Wagon Mound builds a health center. Natl. Educ. Assoc. NEA J. 40:185-186. Mar. 1951. 275.9 N21J
- 48729 YUNG, R. E. How to save money and influence people. Popkess' Dairyman's J. 37(10):10. Jan.1951. 44.8 D142  
Management of the Illinois State Fair.



Leadership

- 48730 CLARK, R. C., JR., and SKELTON, W. E. The 4-H leader. N. Y. Agr. Col. Ext. Cornell 4-H Club. B. 94.11 p. Dec.1950. 275.29 N48Cn
- 48731 EASTWOOD, W. Extension clubs develop leaders. Agr. Leaders' Digest 32(4):36. Apr.1951. 275.28 Am3
- 48732 FARMER cooperative leadership training conference. Amer. Coop. 22:770-774. 1950. 280.29 Am3A
- 48733 MCCLARREN, H. Workshop objectives. Amer. Coop. 22:771-772. 1950. 280.29 Am3A
- For leaders in cooperative education.

Rural Organizations and Movements

- 48734 ABRAHAMSEN, M. A. How much research do purchasing co-ops need and what research assistance can they obtain from colleges and Federal agencies? Amer. Coop. 22:444-459. 1950. 280.29 Am3A
- 48735 AMERICAN INSTITUTE OF COOPERATION. American cooperation 1950; a mid-century look at farmer cooperatives; a collection of papers and discussions summarizing the twenty-second session at Oklahoma A & M College, Stillwater, Okla., August 21-24, 1950. Washington. 1950. 809 p. 280.29 Am3A
- 48736 AMERICAN INSTITUTE OF COOPERATION. Report of joint meeting of Institute research and educational committees. Amer. Coop. 22:277-279. 1950. 280.29 Am3A
- H. Hedges, chairman.
- 48737 ANDERSON, G. C. What the public needs to know about cooperatives. Amer. Coop. 22:271-274. 1950. 280.29 Am3A
- 48738 ANDREWS, S. Cooperatives in international relations. Amer. Coop. 22:113-121. 1950. 280.29 Am3A
- 48739 ANSEL, J. O. What the college student needs to know about cooperatives. Amer. Coop. 22:274-276. 1950. 280.29 Am3A
- 48740 ARMSTRONG, V. How farmers are meeting the educational needs of membership and the public. Amer. Coop. 22:784-785. 1950. 280.29 Am3A
- 48741 BAIRD, R. Indiana has widespread youth activities program. Amer. Coop. 22:727-728. 1950. 280.29 Am3A
- 48742 BARNES, W. S. Sallent comparisons between cooperative legislation in Europe and in the United States. Amer. Coop. 22:387-395. 1950. 280.29 Am3A
- 48743 BARTON, F. L. Definite educational program needed. Amer. Coop. 22:704-705. 1950. 280.29 Am3A
- 48744 BAUMAN, C. G. How can cooperatives develop effective education through: discussion groups? Amer. Coop. 22:248-255. 1950. 280.29 Am3A
- 48745 BEAL, G. M., FESSLER, D. R., and WAKELEY, R. E. Agricultural cooperatives in Iowa: farmers' opinions and community relations. Iowa. Agr. Expt. Sta. Res. B. 379:178-240. Feb.1951. 100 lo9
- 48746 BEALL, A. E. A cooperative philosophy. Amer. Coop. 22:162-165. 1950. 280.29 Am3A
- 48747 BEALL, F. C. How can cooperatives develop effective education through: local associations? Amer. Coop. 22:256-260. 1950. 280.29 Am3A
- 48748 BEATRIZ, M. G. Agricultural cooperation. (In Portuguese.) Gaz. do Agr. 3:8-11. Ref. Jan.1951. 24 G2f
- 48749 BECKHAM, J. Cooperatives should work closely with F.F.A. advisers. Amer. Coop. 22:723-725. 1950. 280.29 Am3A
- 48750 BENNETT, H. G. A mid-century look. Amer. Coop. 22:3-8. 1950. 280.29 Am3A
- 48751 BERAN, D. L. How can cooperatives develop effective education through: public schools? Amer. Coop. 22:261-265. 1950. 280.29 Am3A
- 48752 BERRY, M. Co-ops and what they comprise. Amer. Coop. 22:675-678. 1950. 280.29 Am3A
- 48753 BIRDSALL, B. Building Farm Bureau in Idaho. Nation's Agr. 26(4):7-8. Apr.1951. 280.82 B89
- 48754 BLISS, D. Activities of 4-H Clubs. Amer. Coop. 22:715-717. 1950. 280.29 Am3A
- Cooperatives.
- 48755 BRIGGS, M. J. Danger signals ahead for purchasing cooperatives in a period of declining farm income. Amer. Coop. 22:433-434. 1950. 280.29 Am3A
- 48756 CALDWELL, H. B. Public relations among political leaders. Amer. Coop. 22:143. 1950. 280.29 Am3A
- 48757 CALDWELL, H. B. Relationships of farmer cooperatives and farm organizations. Amer. Coop. 22:98-103. 1950. 280.29 Am3A
- 48758 CALDWELL, MRS. H. B. A cooperative philosophy. Amer. Coop. 22:166-168. 1950. 280.29 Am3A
- 48759 CALIFORNIA STATE GRANGE. Journal of proceedings seventy-eighth annual session, 1950. San Bernardino. 1950. 221 p. 4 C123
- 48760 CARTER, F. Pension plans for cooperatives. Amer. Coop. 22:422-429. 1950. 280.29 Am3A
- 48761 CASH, G. Young Farmer program in South Carolina. Amer. Coop. 22:751-753. 1950. 280.29 Am3A
- 48762 CLARK, H. Houston Farm and Ranch Club; an idea born three years ago has mushroomed into the largest organization of its kind in the nation. Coastal Cattleman 16(11):18-19. Jan.1951. 43.8 C63
- 48763 CLARK, L. M. How can cooperatives develop effective education through: teachers colleges? Amer. Coop. 22:286. 1950. 280.29 Am3A
- 48764 CLEGG, H. Farm youth eager to learn how co-ops operate. Amer. Coop. 22:695-696. 1950. 280.29 Am3A
- 48765 COWDEN, H. A. A cooperative philosophy. Amer. Coop. 22:173-177. 1950. 280.29 Am3A
- 48766 CRANFILL, R. Children do not know what co-op is. Amer. Coop. 22:704. 1950. 280.29 Am3A
- 48767 CUMMINGS, W. F.F.A. group visited many different co-ops. Amer. Coop. 22:720-722. 1950. 280.29 Am3A
- 48768 CYR, F. W. Rural education activities [of the Institute]. Amer. Coop. 22:25-27. 1950. 280.29 Am3A
- 48769 DILLINGHAM, N. History of cooperatives. Amer. Coop. 22:707-709. 1950. 280.29 Am3A
- 48770 DIMITROV, G. M. The peasant movements and unification of Europe. Internatl. Peasant Union. B. 1(3): 10-12. Apr.1950. 280.9 In822
- 48771 DIPPOLD, G. J. Some key ideas presented on youth education in cooperatives. Amer. Coop. 22:782-783. 1950. 280.29 Am3A
- 48772 DREYER, S. Youth must learn their part. Amer. Coop. 22:691-692. 1950. 280.29 Am3A
- In farmer cooperatives.
- 48773 DUGGAN, I. W. Directors responsibilities are many and important. Grain Prod. News 3(8):8-9. Mar. 1951. 286.81 G764
- Cooperatives.
- 48774 DURAND-DROUHIN, J. L'organisation des "4 H Clubs." France. Min. de l'Agr. B. Tech. d'Inform. 55:817-820. Dec.1950. 14 F844B
- 48775 DURYEA, B. History of first Kansas co-op reviewed. Amer. Coop. 22:686-687. 1950. 280.29 Am3A
- 48776 EASTERN STATES FARMERS' EXCHANGE. 1950 saw Eastern States make financial headway, 1950 annual report. East. States Coop. 27(4):12-14. Apr.1951. 280.28 Ea7
- Report of the treasurer, H. L. Lane.
- 48777 EASTERN STATES FARMERS' EXCHANGE. This is the Eastern States record for 1950; annual report presented at annual meeting, Springfield, Mass., February 27, 1951. East. States Coop. 27(4):6-11. Apr.1951. 280.28 Ea7
- By Q. Reynolds, general manager.
- 48778 AN ECONOMIC review of agricultural co-operation in Wales for 1947. Welsh Agr. Organ. Soc. Rur. Wales 1949/50:65-76. 1950. 280.29 W46R
- 48779 FELTON, W. R. Vocational agriculture and farmer cooperatives. Amer. Coop. 22:773. 1950. 280.29 Am3A
- 48780 FETROW, W. W. Cooperative publications: written for whom—at what level? Amer. Coop. 22:309-315. 1950. 280.29 Am3A
- 48781 FISHER, L., and others. National F.F.A. chapter leadership award on cooperation. Amer. Coop. 22: 657-667. 1950. 280.29 Am3A
- G. Stehlik, D. Mizer, G. Kanitz, and R. Densmore, joint authors.
- 48782 FUNDERBURK, C. B. Why cooperatives? Amer. Coop. 22:779-781. 1950. 280.29 Am3A
- 48783 GARDNER, D. C. The Young Farmer program in Utah. Amer. Coop. 22:747-751. 1950. 280.29 Am3A
- 48784 GARDNER, K. B. Fertile ground for co-ops in Caribbean area. News Farmer Coop. 18:9-10, 21-22. Apr. 1951. 166.2 N47
- 48785 GARDNER, K. B. Test your co-op by what you do. Co-op Grain Q. 9:78-79. Spring 1951. 280.28 C7698
- 48786 GENTRY, B. Benefits derived from 4-H and F.F.A. Amer. Coop. 22:744. 1950. 280.29 Am3A
- 48787 GIVENS, J. E. Effective field activities for a regional farm supply cooperative. Amer. Coop. 22:460-463. 1950. 280.29 Am3A
- 48788 GIVENS, J. E. The human element; how to develop trained personnel. Amer. Coop. 22:43-47. 1950. 280.29 Am3A



- 48789 GRAB, E. G. Care can keep defense production rolling. *News Farmer Coop.* 18:15,18. Apr.1951. 166.2 N47  
Care and maintenance of cooperative plants and equipment.
- 48790 GULLANDER, A. Farm cooperation in Sweden. (In Portuguese.) *Granja [Lisboa]* 9:202-208. (Cont.) July/Sept.1950. 15.5 G76
- 48791 HAAG, H. M. Cooperatives, competition and free enterprise. *Amer. Coop.* 22:220-223. 1950. 280.29 Am3A
- 48792 HACKETT, N. Farmer cooperative education in California. *Amer. Coop.* 22:737-738. 1950. 280.29 Am3A
- 48793 HEARD, H. C. Purchasing cooperatives. *Amer. Coop.* 22:517-522. 1950. 280.29 Am3A
- 48794 HECKMAN, J. H. Europe's co-ops. *Co-op Grain Q.* 9:81-82. Spring 1951. 280.28 C7898
- 48795 HECKMAN, J. H. How can cooperatives develop effective education through annual meetings? *Amer. Coop.* 22:241-247. 1950. 280.29 Am3A
- 48796 HECKMAN, J. H. Who'll take the place of the grand old men? *Grain Prod. News* 3(8):5-6. Mar.1951. 286.81 G764  
Cooperative management.
- 48797 HENDRICKS, J. H. Activities of an F.F.A. chapter. *Amer. Coop.* 22:714-715. 1950. 280.29 Am3A
- 48798 HENDRICKSON, R. F. The by-products of co-operation. *Co-op Grain Q.* 9:22-23. Spring 1951. 280.28 C7898
- 48799 HENDRICKSON, R. F. Developing efficient management. *Amer. Coop.* 22:38-42. 1950. 280.29 Am3A
- 48800 HILES, M. The Young Farmers' Club movement. *Roy. Agr. Soc. Eng. J.* 111:47-60. 1950. 10 R81
- 48801 HINDS, B. Co-operative aid to agricultural efficiency. *Welsh Agr. Organ. Soc. Rur. Wales* 1949/50:39-44. 1950. 280.29 W46R
- 48802 HINSHAW, K. Cooperative publications: keeping costs down. *Amer. Coop.* 22:327-332. 1950. 280.29 Am3A
- 48803 HOBSON, A. Farmer cooperatives, today and tomorrow. *Amer. Coop.* 22:18-24. 1950. 280.29 Am3A
- 48804 HOLLAR, I. J. Timely topic—speech contest—outstanding project. *Amer. Coop.* 22:735-736. 1950. 280.29 Am3A  
Cooperative education.
- 48805 HOLMAN, C. W. The Institute and the cooperatives of yesterday. *Amer. Coop.* 22:9-17. 1950. 280.29 Am3A
- 48806 JAYNES, M. C. How farmer cooperatives are meeting the educational needs of membership and the public. *Amer. Coop.* 22:773-774. 1950. 280.29 Am3A
- 48807 JENKINS, D. Some impressions of Irish co-operation. *Welsh Agr. Organ. Soc. Rur. Wales* 1949/50:53-57. 1950. 280.29 W46R
- 48808 JENSEN, A. L. The partnership nature of an incorporated non-profit cooperative association. *Amer. Coop.* 22:373-386. 1950. 280.29 Am3A
- 48809 JENSEN, A. L. Summary of progress report of Committee on Legal Education. *Amer. Coop.* 22:28-29. 1950. 280.29 Am3A
- 48810 KATKOFF, V. Co-ops behind the iron curtain. *II. Coop. Digest* 2(9a):10-11,27. Mar.15,1951. 280.28 C7896
- 48811 KNAPP, J. G. Cooperatives and American business. *Amer. Coop.* 22:68-91. 1950. 280.29 Am3A  
The nature of agricultural cooperatives.
- 48812 KNAPP, J. G. How "good" are you? *News Farmer Coop.* 18:5-6,22-23. Apr.1951. 166.2 N47  
Efficient cooperatives.
- 48813 KOOLHOFF, A. Philosophy of cooperatives and how it affects the farmer's economic position. *Amer. Coop.* 22:169-172. 1950. 280.29 Am3A
- 48814 LAGAUSTIE, F. DE. Les coopératives agricoles aux Etats-Unis. *France. Min. de l'Agr. B. Tech. d'Inform.* 55:871-878. Dec.1950. 14 F844B
- 48815 LE BEAU, O. R. Educational practices of farmer cooperatives. *Amer. Coop.* 22:775-778. 1950. 280.29 Am3A
- 48816 LEWIS, G. What system will make equal participation possible? *Amer. Coop.* 22:729-733. 1950. 280.29 Am3A  
Farmer cooperatives.
- 48817 LIPPMANN, K. Die Notwendigkeit einer inneren Organisation des landwirtschaftlichen Berufsstandes. *Neue Mitt. f. die Landwirt.* 6:73. Feb.3,1951. 18 N39  
Germany.
- 48818 LONG, L. L. Cooperation. *Amer. Coop.* 22:673-674. 1950. 280.29 Am3A
- 48819 LOWE, L. M. A philosophy of cooperation. *Amer. Coop.* 22:148-153. 1950. 280.29 Am3A
- 48820 MCCLARREN, H. Youth education activities. *Amer. Coop.* 22:30-33. 1950. 280.29 Am3A
- 48821 MCDOWELL, F. H. Public relations among cooperative members. *Amer. Coop.* 22:134-138. 1950. 280.29 Am3A
- 48822 MCNEILLY, D. FFA operation—cooperation. *News Farmer Coop.* 18:19. Apr.1951. 166.2 N47  
Modesto Future Farmers of America study cooperative business in actual practice.
- 48823 MAY, D. W. The human element; how to develop active, informed membership. *Amer. Coop.* 22:48-52. 1950. 280.29 Am3A
- 48824 MILLER, R. W. Cooperation round the world. *Amer. Coop.* 22:58-67. 1950. 280.29 Am3A
- 48825 MILLER, S. A. The Capper-Volstead Act—its background, history and interpretation. *Amer. Coop.* 22:396-412. 1950. 280.29 Am3A
- 48826 MUSCATELLO, G. L. The "Boerenbond" [Belge] has happily completed 60 years of life. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 1951(19):7-8. Mar.22,1951. 281.8 Ag3
- 48827 MYERS, W. I. Farm cooperative agricultural outlook for 1951. (Sum.) *Calif. Citrog.* 36:225,261. Apr. 1951. 80 C125
- 48828 NAUGHER, R. E. Educational programs for Young Farmers. *Amer. Coop.* 22:758-760. 1950. 280.29 Am3A
- 48829 NEWBERRY, W. Too much tendency to let others do thinking for us. *Amer. Coop.* 22:725-727. 1950. 280.29 Am3A  
Cooperative education.
- 48830 NEWTON, P. J. Schools have responsibility to disseminate information. *Amer. Coop.* 22:697-699. 1950. 280.29 Am3A
- 48831 OTT, T. Young cooperators sponsor many activities. *Amer. Coop.* 22:733-735. 1950. 280.29 Am3A  
Education.
- 48832 OXFORD UNIVERSITY. AGRICULTURAL ECONOMICS RESEARCH INSTITUTE. The farmers' co-operative movement in England and Wales. *Westminster Bank Rev.* 1951:17-19. Feb.1951. 286.8 W52
- 48833 PAOLETTI, V. Movement or party? (In Italian.) *Agricoltura [Perugia]* 8(2):1. Jan.1/31,1951. 281.8 Ag822  
For agricultural policy.
- 48834 PAULSON, W. E. Cooperatives, competition and free enterprise. *Amer. Coop.* 22:224-237. 1950. 280.29 Am3A
- 48835 PEQUENA PROPIEDAD AGRICOLA DE LA COMARCA LAGUNERA. Informe de actividades durante el ejercicio social de 1950. *Agr. Lagunero* 4(46):5-7,9-13, 15-19,21-23. Jan./Feb.1951. 8 Ag824
- 48836 PETERSON, G. Cooperative publications: making the contents readable. *Amer. Coop.* 22:320-326. 1950. 280.29 Am3A
- 48837 PETERSON, W. B. Reconciling merchandising and the cooperative philosophy of "quality in use." *Amer. Coop.* 22:464-466. 1950. 280.29 Am3A
- 48838 PRANCE, B. Centralized accounting produces efficiency. *News Farmer Coop.* 18:17. Apr.1951. 166.2 N47  
Accounting system of the Cotton Producers Association of Atlanta.
- 48839 PUCKETT, E. N. Suggestions for a cooperative employees training program: responsibilities of co-ops. *Amer. Coop.* 22:581-585. 1950. 280.29 Am3A
- 48840 QUICK, M. Cooperative publications: subject matter approach. *Amer. Coop.* 22:342-348. 1950. 280.29 Am3A
- 48841 RANNEY, W. A. What employees need to know about cooperatives. *Amer. Coop.* 22:269-270. 1950. 280.29 Am3A
- 48842 RAPER, L. E. What members need to know about cooperatives. *Amer. Coop.* 22:267-268. 1950. 280.29 Am3A
- 48843 REYNOLDS, Q. Self-help and our future. *Amer. Coop.* 22:104-112. 1950. 280.29 Am3A  
Includes discussion of farmer cooperatives.
- 48844 ROBOTKA, F. Philosophy of cooperation. *Amer. Coop.* 22:154-161. 1950. 280.29 Am3A
- 48845 ROENIGK, L. Public relations in the field of youth education. *Amer. Coop.* 22:138-140. 1950. 280.29 Am3A
- 48846 RUST, I. Cooperative directors have to work, too! *Hawaii. U. Agr. Ext. C.* 293,11 p. Dec.1950. 275.29 H312Ac



- 48847 RUST, I. Cooperative members are only human; membership relations. Hawaii. U. Agr. Ext. C. 299, 5 p. Jan.1951. 275.29 H312Ac
- 48848 RUST, I. Do you really know what a cooperative is? Hawaii. U. Agr. Ext. C. 295,7 p. Jan.1951. 275.29 H312Ac
- 48849 RUST, I. A farmers' cooperative won't run itself; problems of management. Hawaii. U. Agr. Ext. C. 298,7 p. Jan.1951. 275.29 H312Ac
- 48850 RUST, I. There's pleasure as well as profit in your cooperative annual meetings. Hawaii. U. Agr. Ext. C. 300,4 p. Jan.1951. 275.29 H312Ac
- 48851 RUST, I. What can a cooperative do for farmers? Hawaii. U. Agr. Ext. C. 297,8 p. Jan.1951. 275.29 H312Ac
- 48852 RYKER, D. E. Cooperative publications: written for whom—at what level? Amer. Coop. 22:316-319. 1950. 280.29 Am3A
- 48853 SAMUELSON, A. College campus co-ops organized. Amer. Coop. 22:692-693. 1950. 280.29 Am3A
- 48854 SAMVIRKENDE SJAELANDSKE LANDBOFORENINGER. Beretning om virksomheden i de Samvirkende Sjaellandske Landboforeninger i aaret 1950 [Report on the activities of the Associated Agricultural Societies in Sjaelland in the year 1950]. København, 1951. 178 p. 11 Z1Be
- 48855 SANDERS, F. Young Farmer program in Mississippi. Amer. Coop. 22:753-755. 1950. 280.29 Am3A
- 48856 SASKATCHEWAN. DEPT. OF CO-OPERATION AND CO-OPERATIVE DEVELOPMENT. Sixth annual report 1950. Regina, 1951. various pagings. 280.29 Sa74A
- 48857 SAUFFERER, W. "United we stand, divided we fall." Amer. Coop. 22:719-720. 1950. 280.29 Am3A Cooperative efforts of youth.
- 48858 SCHIRM, N. F. Young Farmer program in Ohio. Amer. Coop. 22:755-758. 1950. 280.29 Am3A
- 48859 SCHOLNIK, E. H. Cooperative publications: subject matter approach. Amer. Coop. 22:337-341. 1950. 280.29 Am3A
- 48860 SCOTT, H. S. United [Cooperatives, Inc.] big wheel in supply field. News Farmer Coop. 18:12-14, 18. Apr.1951. 166.2 N47
- Organizational setup and relationship between United and its member farmer cooperatives.
- 48861 SHAY, F. M. Purpose of farmer cooperative is to improve economic position of member. Sunsweet Standard 34(10):7-8. Mar.1951. 286.83 Su7
- 48862 SIMS, J. W. Financing operations of large-scale integrated purchasing cooperatives. Amer. Coop. 22:435-438. 1950. 280.29 Am3A
- 48863 SOCIEDAD NACIONAL AGRARIA. Memoria 1949-1950. Lima, 1950. 177 p. 9.8 So11
- 48864 SOCIEDAD NACIONAL DE AGRICULTURA. Incansable defensa de la producción mantuvo en 1950. Cam-pesino [Santiago] 83:7-9, 11, 13. Jan.1951. 9.3 So12
- Annual report of the Society.
- 48865 SOTH, L. K. Public relations and farmer co-operatives. Amer. Coop. 22:127-133. 1950. 280.29 Am3A
- 48866 STEIN, G. Farm organization in Germany. Amer. Coop. 22:715. 1950. 280.29 Am3A Cooperatives.
- 48867 STEVENSON, J. Young farmers' successful year. Farming News & No. Brit. Agr. 103:90-91. Jan.1, 1951. 10 N82
- Scottish Young Farmers' Clubs.
- 48868 SUTTON, W. A. Rock Eagle Camp a great program in 4-H history. Ga. Agr. Col. Ext. Ga. Cloverleaf 5(11):1,4. Apr.1951. 275.28 G29
- 48869 SWANTON, M. K. Public relations with non-agricultural groups. Amer. Coop. 22:140-142. 1950. 280.29 Am3A
- Relations of agricultural cooperatives.
- 48870 SYMPOSIUM No. 1: youth's part in farmer co-operatives. Amer. Coop. 22:683-693. 1950. 280.29 Am3A M. A. Ball, chairman.
- 48871 SYMPOSIUM No. 2: developing farmer cooperative education and training programs in schools and colleges. Amer. Coop. 22:694-705. 1950. 280.29 Am3A J. L. Marks, chairman.
- 48872 SYMPOSIUM No. 3: information please—what youth wants to know about farmer cooperatives. Amer. Coop. 22:706-717. 1950. 280.29 Am3A T. Davis, chairman.
- 48873 SYMPOSIUM No. 4: providing training programs for youth groups in farmer cooperatives. Amer. Coop. 22:718-728. 1950. 280.29 Am3A R. Bycroft, chairman.
- 48874 SYMPOSIUM No. 5: farmer cooperative education—special types. Amer. Coop. 22:729-738. 1950. 280.29 Am3A E. Hellwege, chairman.
- 48875 SYMPOSIUM No. 7: Young Farmer programs. Amer. Coop. 22:746-760. 1950. 280.29 Am3A V. H. Wohlford, chairman.
- 48876 THAYER, J. B. Members will make their Eastern States not too big, not too small, but just right. East. States Coop. 27(3):8-9. Mar.1951. 280.28 Ea7
- 48877 THOMAS, R. Children in grade school should learn cooperative principles. Amer. Coop. 22:699-701. 1950. 280.29 Am3A
- 48878 ULREY, O. Suggestions for a cooperative employees training program: responsibilities of colleges for a training program for employees of cooperatives. Amer. Coop. 22:586-596. 1950. 280.29 Am3A Includes discussion.
- 48879 U. S. EXTENSION SERV. Announcement, twenty-first National 4-H Club Camp, Washington, D. C. Theme: Know your Government. June 13-20, 1951. Washington, 1951. 12 p. 1.9 Ex892Fba
- 48880 WAAS, G. J. The co-op record in black and red. Co-op Grain Q. 9:77-78. Spring 1951. 280.28 C7898
- 48881 WADHAM, S. M. The background of co-operation. Queensland Co-op. 5(13):11,14. Dec.14, 1950. 280.28 Q3
- 48882 WELSH AGRICULTURAL ORGANISATION SOCIETY. Rural Wales, a yearbook of Welsh agricultural co-operation 1949-50. Aberystwyth, 1950. 96 p. 280.29 W46R
- 48883 WICKARD, C. R. How cooperatives build better communities. Amer. Coop. 22:92-97. 1950. 280.29 Am3A
- 48884 WIETING, C. M. Cooperative publications: keeping costs down. Amer. Coop. 22:333-336. 1950. 280.29 Am3A
- 48885 WOOD, G. B. Cooperatives, competition and free enterprise. Amer. Coop. 22:215-219. 1950. 280.29 Am3A
- 48886 WRIGHT, J. K. Unified action gains attention and results. Amer. Coop. 22:702-704. 1950. 280.29 Am3A Cooperative instruction.
- 48887 YOUNG, M. O. How cooperatives are organized. Amer. Coop. 22:709-714. 1950. 280.29 Am3A
- 48888 YOUNG, R. A. Merchandising in relation to inventory control. Amer. Coop. 22:467-470. 1950. 280.29 Am3A Farmers' consumer cooperatives.

## RURAL SOCIAL PSYCHOLOGY

- 48889 FROMONT. Comportement psychologique de l'agriculteur français devant la modernisation. Acad. d'Agr. de France. Compt. Rend. 37:48-57. Jan.10/17, 1951. 14 P215Bc
- Includes discussion.
- 48890 GREGORY, D. What do you think? Here is a digest of several bits of casual conversation picked up in northwest Iowa. How does it sound to you? Iowa Bur. Farmer 15(4):8-9, 11, 13. Apr.1951. 275.293 Iowa
- Farmer opinions on various subjects.
- 48891 HARLOW, R. F. Urban-rural relations—a report. Pub. Relat. J. 7(4):11-12, 18. Apr.1951. 238.28 P96
- 48892 HOLLAND, J. B. Attitudes toward minority groups in relation to rural social structure. Mich. U. Microfilm Abs. 11:192-194. 1951. 241.8 M58

## TRADE, FOREIGN AND INTERNATIONAL

- 48893 ARANGO, R. Cuba, país de exportación. Agro-tecnia 5:7-9. Jan./Feb.1951. 8 Ag825
- 48894 ASHTON, J. Export control and cotton prices. N. Y. Agr. Col. Farm Econ. 178:4629-4630. Feb.1951. 280.8 C812
- 48895 BECH, P. At the turn of the year. (In Danish.) Gart.-Tid. 67:1-2. Jan.3, 1951. 80 G192
- Chiefly on the effect of the liberalization of European trade on the fruit industry in Denmark.
- 48896 BELTRAN MONFERRER, J. M. Importación y exportación de productos pecuarios por el puerto de Barcelona. V. Importación de pelo de cabra, de otras especies y de plumas. B. de Divulg. Ganad. [Valladolid] 7:399-403. Dec.1950. 49.9 Sp12
- 48897 BRAVO, G. C. Argentine-United States trade, 1939-1950. Comments Argentine Trade 30(7):21,23,25, 27,29,31. Feb.1951. 287 C359C
- Agricultural.
- 48898 BROWN, H. D. Reciprocal trade; possibilities of quotas. Veg. Growers Assoc. Amer. Annu. Rpt. 1950:24-36. 81 V52



48999 CANADA. BOARD OF GRAIN COMMISSIONERS. STATISTICS BR. Canadian grain exports, crop year 1949-50. Ottawa, 1951. 47 p. 286.3599 C162D

48900 CARUS-WILSON, E. M. Trends in the export of English woollens in the fourteenth century. Econ. Hist. Rev. (ser. 2) 3:162-179. 1950. 277.8 Ec7

48901 CAYRE, H. Où en sont nos exportations? Sucre, alcool. Planteurs de Betteraves 66:1,8. Jan. 1951. 68.9 C762

France.  
48902 CHERRINGTON, J. O. The European farm pool plan. Farmer & Stock-Breeder 65(3203):43,45. Mar. 13, 1951. 10 F228

Export production to be put into a common pool, and divided according to the needs of the participants.

48903 COLOMBIA. CONTRALORIA GENERAL. DIRECCION NACIONAL DE ESTADISTICA. Anuario general de estadística, Colombia, 1948. Bogotá, 1950. 779 p. 255.5 C712A

Includes statistics for trade and agricultural credit.

48904 COMMONWEALTH ECONOMIC COMMITTEE. INTELLIGENCE BR. Commonwealth trade in 1949. London, 1950. 18 p. 286 C736

48905 COYNER, M. S., comp. Cuban trade in principal agricultural products. U. S. D. A. Statis. B. 96,34 p. Feb. 1951. 1 Ag84St

48906 CRUSE, E. L'exportation des vins de Bordeaux. France. Inst. Natl. des Appellations d'Origine des Vins et Eaux-de-Vie. B. 35:34-37. Sept. 1950. 390.9 F843

48907 DIJKSTRA, J. M. Formulas attend the export of our cattle. (In Dutch.) Friesch Landbbl. 48:87. Feb. 9, 1951. 12 F91

48908 DRUMMOND, A. Hong Kong mills pool resources; aim: to develop foreign markets. Cotton Trade J. Internatl. Ed. 31(10):74-75. Mar. 9, 1951. 72.8 C8214I

48909 DUNN, R. P. Cotton has key position in present world emergency. South. Textile News 7(12):30. Mar. 24, 1951. 304.8 S083

Trade.  
48910 EBELING, P. C. D. Dutch agents urge free economy. Cotton Trade J. Internatl. Ed. 31(10):122-123. Mar. 9, 1951. 72.8 C8214I

Cotton trade.  
48911 EGYPT. MINISTRY OF NATIONAL ECONOMY. STATISTICAL ADMIN. Egypt trade statistics, 1947. Cairo, 1951. 32 p. 270 Eg9E

48912 FENGER, E. New markets. (In Danish.) Dansk Landbr. 70:153. Mar. 29, 1951. 280.28 V91

Farm products.  
48913 FORFANG, E. G. Thoughts on the custom union. (In Norwegian.) Gart.-Tid. 67:8-9. Jan. 3, 1951. 80 G192

Includes discussion by A. Stauning. Scandinavian.

48914 FRANCE. DIRECTION GENERALE DES DOUANES ET DROITS INDIRECTS. Tableau général de la navigation maritime, effectif de la marine marchande, statistique des transports des marchandises en trafic international, année 1948. Paris, 1950. 391 p. 260 D74Tn

48915 GERMANY (FEDERAL REPUBLIC, 1949-) MINISTERIUM FÜR ERNÄHRUNG, LANDWIRTSCHAFT UND FORSTEN. AUSSENHANDELSSTELLE. Zusammenstellung der der aussenhandelsstelle vorliegenden durchschriften der von den aussenhandelsbanken in der zeit vom 19.9.1949 bis 30.11.1950 ausgestellten einfuhrbewilligungen im liberalisierten und freilisten-verfahren. Frankfurt/Main, 1950. 23 p. 265 G317

48916 GRENADA. Returns of imports and exports for the year 1949. St. George's, 1951. 50 p. 254.8 G86

48917 HARA, K. Reasons for sharply increased textile exports and their prospective features. Mon. Rpt. Jap. Cotton Spinning Indus. 50:9-15. Mar. 1951. 304.9 J27M

48918 HARTARD EBERT, M. Estudios estadísticos—Internación de tejidos. Industria 68:45-46. Jan. 1951. 297.9 S01

48919 HOLM, A. H. On the marketing of cattle and meat and the activities of OXCO. (In Danish.) Andelsblad 52:323-328. Mar. 22, 1951. 280.28 An2

Danish trade.

48920 JENNY, C. Swiss suggest U. S. set example; trade barriers hit Swiss cotton industry. Cotton Trade J. Internatl. Ed. 31(10):92-93. Mar. 9, 1951. 72.8 C8214I

Textiles.  
48921 JENSEN, H. O. V. South African foodstuffs in East Asia. Food Indus. 3(10):51,53. Feb. 1951. 389.8 F7372

Trade.

48922 JIMENEZ CALDERON, A. Spain's mills hungry for cotton. Cotton Trade J. Internatl. Ed. 31(10):127, 212-213. Mar. 9, 1951. 72.8 C8214I

Trade.

48923 KÄSTNER, F. Allgemeine Deutsche Eier-Import G.m.b.H. in tätigkeit. Eier-, Wild-, Geflügel- u. Honig-Markt 3(4):1. Jan. 25, 1951. 280.38 E13

48924 LEEMAN, C. Ghent cotton market—its role in recovery. Cotton Trade J. Internatl. Ed. 31(10):134-135. Mar. 9, 1951. 72.8 C8214I

Trade.

48925 LENTI, L. Italian synthetics need U. S. market. Cotton Trade J. Internatl. Ed. 31(10):183-184. Mar. 9, 1951. 72.8 C8214I

48926 MARSHALL, D. A. B. Canadian honey bombed in Britain during war making appearance on market. Foreign Trade 9:562-564. Apr. 7, 1951. 286.8 C162

48927 NELSON, B. Sweden's foreign trade 1938 and 1948. (In Swedish.) Svensk Geog. Årsb. 26:200-206. 1950. 502 L972

48928 PANHUYZEN, J. A. Textiles need free European market. Cotton Trade J. Internatl. Ed. 31(10):116-117, 124-125. Mar. 9, 1951. 72.8 C8214I

48929 PETITPIERRE, A. Nous vendrons nos oranges: au cours mondial. Colon Franç. de Tunisie (ser. 7) 44, l.e. 61(2180):1. Jan. 13, 1951. 24 C712

48930 PORTUGAL. MINISTERIO DAS FINANÇAS. Instruções preliminares das pautas e pauta dos direitos de importação [Preliminary instructions of tariffs and tariffs of import duties]. Lisboa, Imprensa Nacional, 1950. 171 p. 285 P833

48931 SOLDINI, S. A. Italy fights for markets. Cotton Trade J. Internatl. Ed. 31(10):86-87. Mar. 9, 1951. 72.8 C8214I

Cotton and cotton textiles.

48932 STEIN, E. Die wichtigsten absatzgebiete für bier, hopfen, malz. Brauwelt 1951:107-109. Feb. 15, 1951. 390.8 B732

German trade with other countries.

48933 STREAT, SIR R. A cotton trade progress report. Textile Mercury & Argus 61(sup.):11,13. Mar. 1951. 304.8 T318

48934 SVERIGES POMOLOGISKA FORENING. Import of fruit trees under control. (In Swedish.) Sveriges Pomol. För. Årsskr. 1950:330-334. 86 Sv2

48935 TERESHINA, V. The jute [international] market. (In Russian.) Vneshn. Torg. 20(9):32-37. Sept. 1950. 286.8 F762

48936 U. S. OFF. OF INTERNATIONAL TRADE. AREAS DIV. SPECIAL PROGRAMS BR. United States foreign trade series: export and import trade with leading countries, January-December 1949, a statistical analysis. Washington, 1950. 38 p. 157.54 Un35

48937 U. S. PRODUCTION AND MARKETING ADMIN. U. S. grain exports, July 1950-January 1951. Washington, 1951. 1 p. 1.956 G76Un36

48938 URUGUAY. COMISION HONORARIA DEL CONTRALOR DE EXPORTACIONES E IMPORTACIONES. Memoria correspondiente al año 1949. Montevideo, 1950. 120 p. 255.7 Ur872M

Statistics.

48939 ZANZIBAR. COMPTROLLER OF CUSTOMS. Annual trade report for the year 1948 (part II). Zanzibar, 1950. 221 p. 270 Z12

48940 ZOLLINGER, F. E. Pakistan profits from dollar shortage. Cotton Trade J. Internatl. Ed. 31(10):48-49, 57, 205. Mar. 9, 1951. 72.9 C8214I

Cotton.

## FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

48941 AMERICAN DIETETIC ASSOCIATION. Annual reports & proceedings, Washington, D. C. Meeting, 1949-1950. Chicago, 1950. 40 p. 389.9 Am35P

48942 APPLIED LIFELINE NUTRITION, CHICAGO. Your life depends on it. Chicago, 1950. 128 p. 389.1 Ap5  
48943 AZEVEDO, T. DE. Nutrition study of pupils in the City of Salvador (Bahia). (In Portuguese.) Arq. Bras. de Nutr. 7:255-268. July/Aug. 1950. 389.8 Ar6  
English summary.



- 48944 BABCOCK, M. J. Simplification of the "long method" for calculating the nutritional value of diets. *N. J. Agr. Expt. Sta. B.* 751,79 p. June 1950. 100 N46S
- 48945 BAUMGARTNER, L. Wider horizons for children; the midcentury White House conference and children's nutrition. *Amer. Dietet. Assoc. J.* 27:281-284. Ref. Apr. 1951. 389.8 Am34
- 48946 BEAL, V. A. Nutritional aspects of a human growth study. *Nutr. News* 14:11. Feb. 1951. 389.8 N957
- 48947 BENGUA, J. M. La alimentación de las clases obrera y media de Caracas. *Inst. Nac. de Nutr. Ser. de P.* 7,92 p. Dec. 1950. 389.9 C17
- 48948 BROUHA, L. Nutrition and physical efficiency. *Canad. Home Econ. J.* 1:33. Nov. 1950. 321.8 C162
- 48949 CAMPBELL, R. Goals for world nutrition. *Food & Nutr. News* 22(6):3. Mar. 1951. 389.8 F7332
- 48950 CHOW, B. F. Sequelae to the administration of vitamin B<sub>12</sub> to humans. *J. Nutr.* 43:323-343. Ref. Feb. 10, 1951. 389.8 J82
- 48951 CLAYTON, C. B. Nutrition high lights. *Pract. Home Econ.* 29:188. Apr. 1951. 321.8 H752
- 48952 DARBY, W. J. Advances in the therapy of nutritional deficiencies. *Amer. J. Trop. Med.* 31:183-191. Ref. Mar. 1951. 448.8 Am33
- 48953 DAREY, W. J. Nutrition in the medical school curriculum. *Nutr. Observ.* 12:1-4. Jan. 1951. 389.8 N955
- 48954 DAVIES, J. Vegetarianism and secularism. *Veg. Messenger & Health Rev. (ser.8)* 48:34-36. Feb. 1951. 389.8 V522
- 48955 DAY, P. L. Nutrition in relation to blood cell formation. *Food & Nutr. News* 22(6):1,4. Mar. 1951. 389.8 F7332
- 48956 DOBBIN, E. V., and others. The low fat, low cholesterol diet; what to eat and how to prepare it. Garden City, N. Y., Doubleday, 1951. 371 p. 389.1 D652
- H. F. Gofman, H. C. Jones, L. C. Lyons, and C. B. Young, joint authors.
- 48957 FLOREA, R. S. Miss 4-H teaches nutrition. *Pract. Home Econ.* 29:190. Apr. 1951. 321.8 H752
- 48958 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. COMMITTEE ON CALORY REQUIREMENTS. Les besoins en calories. *Ann. de la Nutr. et de l'Aliment.* 4:183-235. 1950. 389.8 An73
- 48959 GENERAL MILLS, MINNEAPOLIS. Betty Crocker's picture cook book. Minneapolis, 1950. 463 p. 389.25 G285B
- 48960 HENING, J. C., and LEE, F. A. Candied fruits and fruit candy. *N. Y. Agr. Col. Cornell Ext. B.* 817,7 p. Mar. 1951. 275.29 N48E
- 48961 HOOVER, C. Nutrition research—to add life to years! *Ala. Tuskegee Inst. Serv.* 15(8):18-19. Mar. 1951. 280.8 Se62
- 48962 KULSTAD, H. M. Recommendations on school nutrition. *Amer. Acad. Appl. Nutr. Mon. Newslet. J.* 4(3):9. Mar. 1951. 389.9 Am352
- 48963 LENROOT, K. F. Nutrition and the White House Conference on Children and Youth. *Nutr. News* 14:9. Feb. 1951. 389.8 N957
- 48964 LIVINGSTONE, H. Food service for restaurant, coffee shop, hotel, cafeteria, home. Bloomington, Ill., McKnight and McKnight, 1950. 117 p. 389.2 L75
- 48965 MCCRUMMEN, M. A training program for school lunch managers. *Pract. Home Econ.* 29:192-193. Apr. 1951. 321.8 H752
- 48966 MCMAHON, G. Dietary consultation—a service for small institutions. VIII. *Amer. Dietet. Assoc. J.* 27:302-308. Ref. Apr. 1951. 389.8 Am34
- 48967 MILLER, E., and BROWN, E. F. Some facts about foods and nutrition. *Utah. State Agr. Col. Ext. B.* 226,31 p. n.d. 275.29 Ut1
- 48968 MILLER, J., and PERSONIUS, C. Good cooking with dry milk. *N. Y. Agr. Col. Cornell Ext. B.* 804,15 p. Feb. 1951. 275.29 N48E
- 48969 MORGAN, E. P. Es preciso ser vegetariano? *ICA; Indus. y Com. de la Aliment.* 5(60):14-15. Nov. 1950. 286.8 Ic1
- 48970 MOYLE, R. E. Coordination in nutrition education. *Canad. J. Pub. Health* 42:95-98. Mar. 1951. 449.8 P664
- 48971 MUNRO, D. C. Man alive, you're half dead! *Rev. ed. New York, Bartholomew House, 1950.* 255 p. 389.1 M923
- Nutrition and its effect on health.
- 48972 NEWFOUNDLAND. DEPT. OF HEALTH. Nutrition in Newfoundland. *Canad. Nutr. Notes* 7:25-27. Apr. 1951. 389.9 C168
- 48973 OCAMPO, O. Z. DE. Qué son los siete básicos. *Suelo Tico* 4:339-340. Nov./Dec. 1950. 8 Su2
- 48974 O'MALLEY, E., and others. Nutrition and alcoholism. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):390. Mar. 1951. 442.9 F31P
- V. Heggie, M. Trulson, R. Fleming, and F. J. Stare, joint authors.
- 48975 PAUMIER, R. Feeding programs for school-children in France. *Food & Agr.* 3:205-209. Ref. Oct./Dec. 1950. 389.8 F7326
- 48976 PEIRCE, A. W. Some recent advances in nutrition. (Sum.) *Roy. Austral. Chem. Inst. J. & Proc.* 17:440-441. Dec. 1950. 385 Au72
- 48977 PENNSYLVANIA. STATE COLLEGE. AGRICULTURAL EXTENSION SERV. Let's pack a lunch. Pa. State Col. Agr. Ext. C. 375,15 p. Jan. 1951. 275.29 P38C
- 48978 PENNSYLVANIA. STATE COLLEGE. AGRICULTURAL EXTENSION SERV. Your breakfast wheel of fortune; better breakfasts better health. Pa. State Col. Agr. Ext. L. 145,4 p. Mar. 1951. 275.29 P38L
- 48979 PRICE, H. H. Studying achievement in foods classes. *J. Home Econ.* 43:263-265. Apr. 1951. 321.8 J82
- Nutrition education.
- 48980 PRICE, W. A. Nutrition and physical degeneration. *Amer. Acad. Appl. Nutr. Mon. Newslet. J.* 4(3):4-7. (Cont.) Mar. 1951. 389.9 Am352
- 48981 SANDO, L. G., and PATTON, M. B. Lunch programs in Ohio public schools. *Amer. Dietet. Assoc. J.* 27:285-288. Apr. 1951. 389.8 Am34
- 48982 SCHEURER, E. Der tagesbedarf des menschen an vitamin C. *Leben u. Umwelt* 7:118-119. Feb. 1951. 410 L49
- 48983 SCHNEIDER, H. A. Nutrition and resistance-susceptibility to infection. *Amer. J. Trop. Med.* 31:174-182. Ref. Mar. 1951. 448.8 Am33
- 48984 SCHULZ, A. Nutrition service for physically handicapped children. *Nutr. News* 14:11-12. Feb. 1951. 389.8 N957
- 48985 SCHULZ, T. A "human needs" diet in November 1950. *Oxford. U. Inst. Statis. B.* 13:17-22. Jan. 1951. 280.9 Ox2B
- 48986 SHOSHKES, M., and others. Fat emulsions for oral nutrition. III. *Amer. Dietet. Assoc. J.* 27:197-208. Mar. 1951. 389.8 Am34
- T. B. Van Itallia, R. P. Geyer, and F. J. Stare, joint authors.
- 48987 STAMBOVSKY, L. Status of nutritional therapy *Drug & Cosmetic Indus.* 68:310-311,396-401. Ref. Mar. 1951. 396.8 D842
- 48988 STRANSKY, E., DAUIS-LAWAS, D. F., and LAWAS, I. On hypoproteinaemia due to malnutrition in the Tropics. *J. Trop. Med. & Hyg.* 54:53-60. Ref. Mar. 1951. 448.8 J827
- 48989 TERCERO, R. A. Esfuerzos para elevar el nivel nutricional del campesino. *Salvador. Sec. de Inform. Inform. de El Salvador* 1(4):2-3. Nov. 14, 1950. 280.9 Sa3
- 48990 TINSLEY, W. V. Teaming up teachers—nutrition-wise. *Forecast Home Econ.* 67(4):18-19,48. Apr. 1951. 321.8 F76
- 48991 TUTTLE, W. W., and others. Effects of breakfasts of different size and content on physiologic response of men. *Amer. Dietet. Assoc. J.* 27:190-196. Mar. 1951. 389.8 Am34
- K. Daum, C. J. Imig, C. Martin, and R. Klisgen, joint authors.
- 48992 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Three-way food planning, by R. C. Likquist, and Z. F. Rodenwold. Washington, 1951. 3 p. 1.914 R2R11
- 48993 VAN VEEN, A. G. Problems of nutrition in the Tropics. *Amer. J. Trop. Med.* 31:158-162. Mar. 1951. 448.8 Am33
- 48994 WESTERLUND, A. How much calcium does a human being need? (In Swedish.) *Mjölpropagandan* 28:7-8. Jan. 1951. 44.8 M692
- 48995 WILLIAMS, H. H., and others. Nutritional status survey, Groton Township, New York. VI. Chemical findings. *Amer. Dietet. Assoc. J.* 27:215-221. Ref. Mar. 1951. 389.8 Am34
- J. S. Parker, Z. H. Pierce, J. C. Hart, G. Fiala, and H. L. Pilcher, joint authors.
- 48996 YOUNG, C. M., SMUDSKI, V. L., and STEELE, B. F. Fall and spring diets of school children in New York State. *Amer. Dietet. Assoc. J.* 27:289-292. Apr. 1951. 389.8 Am34

## FOOD HABITS

- 48997 EPPRIGHT, E. S. Food habits and preferences; a study of Iowa people of two age groups [youth and in middle age]. *Iowa. Agr. Expt. Sta. Res. B.* 376:874-976. Dec. 1950. 100 Io9



48998 LEVERTON, R. M., and COGGS, M. C. Food choices of Nebraska children. *J. Home Econ.* 43:176-178. Mar. 1951. 321.8 J82

48999 MEAD, M. Food and the family. United Nations Educ. Sci. & Cult. Organ. Food & People Ser. 1,24 p. 1950. 173 N215F

Also classified separately with call number 389 M46F Food habits.

49000 STORVICK, C. A., and others. Nutritional status of selected population groups in Oregon as determined by food habits studies and biochemical tests on the blood. (Abs.) *Fed. Amer. Soc. Expt. Biol. Fed. Proc.* 10(1,pt.1):396. Mar. 1951. 442.9 F31P

M. L. Hathaway, R. M. Nitchals, B. Schaad, R. E. Coffey, and M. B. Deardorff, joint authors.

#### NUTRITIVE AND VITAMIN CONTENT

49001 BALDWIN, R. R., LOWRY, J. R., and THIESSEN, R., JR. Some effects of processing on the nutritive properties of proteins. *Food Res.* 16:107-117. Mar./Apr. 1951. 389.8 F7322

49002 CALIMERI, M. Bread in the feeding of children. (In Italian.) *Arte Bianca* 6(6):5;(7):3. Feb. 21-Mar. 1, 1951. 389.8 Ar7

Title varies slightly.

49003 CHATELIER, P. A. When, is food, food? *Green Thumb* [St. Petersburg] 1(3):9-15. Jan. 1951. 80 G822

Minerals in food.

49004 CRAMPTON, E. W., FARMER, F. A., and BERRYHILL, F. M. The effect of heat treatment on the nutritional value of some vegetable oils. *J. Nutr.* 43:431-440. Ref. Mar. 10, 1951. 389.8 J82

49005 FENTON, F. Nutritive value of frozen foods. In *American Society of Refrigerating Engineers. Refrigerating data book*, ed. 3, p. 99-115. Ref. New York, 1951. 295.9 Am32Ref

49006 GONDIM, J. A. C. Bread, vital food. (In Portuguese.) *Lavoura* 54:47. Nov./Dec. 1950. 9.2 L39

49007 JARVIS, D. C. Honey as the ideal food supplement. *Amer. Bee J.* 91:144. Apr. 1951. 424.8 Am3

49008 JUON, P. L. Plant proteins and their importance. (In Italian.) *Agenzia Romana Note e Inform. Agr.* 1951(10):6. Feb. 7, 1951. 281.8 Ag3

Nutritive value.

49009 LOCKSPEISER, SIR B. Nutrients in wheat and research on oatmeal. (Sum.) *Milling* 116:160,162. Feb. 17, 1951. 298.8 M622

49010 MASSIEU H., G., and others. Nutritive value of some primitive Mexican foods. *Amer. Dietet. Assoc. J.* 27:212-214. Ref. Mar. 1951. 389.8 Am34

J. Guzmán G., R. O. Cravioto, and J. Calvo de la T., joint authors.

49011 NATIONAL RESEARCH COUNCIL. FOOD AND NUTRITION BOARD. COMMITTEE ON PROTEIN FOODS. The problem of heat injury to dietary protein. *Natl. Res. Council. Reprint & C. Ser.* 131,19 p. Ref. June 1950. 330.9 N21R

49012 PENNSYLVANIA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Milk for everyone. *Pa. State Col. Agr. Ext. L.* 142,6 p.-folder. Jan. 1951. 275.29 P38L

Nutritive value.

49013 PETT, L. B. Nutritional aspects of dairy products. *Agr. Inst. Rev.* 6(2):60-61. Mar. 1951. 7 Ag8

49014 SURE, B. Nutritional values of proteins in various cereal breakfast foods. *Food Res.* 16:161-165. Mar./Apr. 1951. 389.8 F7322

49015 WILLIAMS, R. R. Progress in cereal enrichment. *Amer. Dietet. Assoc. J.* 27:293-297. Ref. Apr. 1951. 389.8 Am34

49016 WILSON, A. M. Food and health. Bread as a source of protein. *Today's Health* 29(4):40-42. Apr. 1951. 449.8 H993

#### MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

#### GENERAL

49017 ALMANACCO agrario per l'anno 1951 [Agricultural almanac for the year 1951]. Trento, 1950. 237 p. 16 AL6

49018 ALMANACH agricole Tunisie, 1951. Tunis, 1951. 308 p. 24 AL6

49019 ARIKA, H. Kaisetsu iden-gaku [Heredity explained]. Tokyo, Azumi Shobo, 1950. 358 p. 443 Ar4

49020 BAHIA (STATE) SECRETARIA DA AGRICULTURA, INDUSTRIA E COMERCIO. Report for 1949. (In Portuguese.) *Bahia. Sec. da Agr., Indus. e Com. Serv. de Divulg.* B. 46(6):3-31. Mar. 1950. 9.2 B14

49021 BERTRAM, I. Rattenbekämpfung auf chemischer Grundlage. *Anz. f. Schädlingsk.* 24:42-44. Mar. 1951. 421 An9

49022 BRITISH GUIANA. DEPT. OF AGRICULTURE. Divisional reports for the year 1945. Georgetown, 1951. 145 p. 9.6 B774D

49023 CONFERENCE ON ELECTRON MICROSCOPY. Proceedings, Delft, 4-8 July 1949. The Hague, Nijhoff, 1950. 188 p. 440.9 C76

49024 CYPRUS. DEPT. OF AGRICULTURE. Annual report for the year 1949. Nicosia, 1950. 18 p. 21 C99

49025 DOBIGNIES, J. Attempt at analysis of biological and physiological factors in the physiological concept of heredity. (In Portuguese.) *Bahia. Sec. da Agr., Indus. e Com. Serv. de Divulg.* B. 46(6):43-69. Mar. 1950. 9.2 B14

49026 DOMINICAN REPUBLIC. SECRETARIA DE ESTADO DE AGRICULTURA, PECUARIA Y COLONIZACION. Almanaque agrícola de la República Dominicana para el año 1951. Ciudad Trujillo 1950? 80 p. 8 D714

49027 GUYENOT, E. La variation. Ed. 2, rev. and enl. Paris, Doin, 1950. 630 p. (*Encyclopédie Scientifique Bibliothèque de Biologie Générale*) 443 G99V

Mutation in insects, vertebrates, and plants.

49028 HALDANE, J. B. S. Genetik und biochemie. (Sum.)

*Angew. Chem.* 63:98. Feb. 21, 1951. 384 Z33

49029 HENNIG, W. Grundzüge einer theorie der phylogenetischen systematik. Berlin, Deutscher Zentralverlag, 1950. 370 p. Ref. 443 H39

49030 HÜTER, F. Neue biologische erkenntnisse, gewonnen mit chemisch synthetisierten nagetiergiften. *Anz. f. Schädlingsk.* 24:23-26. Ref. Feb. 1951. 421 An9

49031 INDISCH INSTITUUT, AMSTERDAM. Negen en dertigste jaarverslag, 1949 [Thirty-ninth annual report, 1949]. Amsterdam, 1950. 75 p. 259 Am8

49032 IOWA. DEPT. OF AGRICULTURE. Fiftieth annual Iowa year book of agriculture, 1949. Des Moines, 1950. 570 p. 2 I9R

49033 JONKOPINGS LANS HUSHALLNINGSSÄLLSKAP. Berättelse [Report of the activities of Jönköping Province Agricultural Society during the year 1949]. Jönköping, 1950. 80 p. 11 J732

49034 KALENDAR' kolkhoznika na 1951 god [Collective farmer's almanac for 1951]. Moskva, Gos. Izd-vo Selkhoz Lit-ry, 1950. 154 p. 30.3 K12

49035 KANSAS. AGRICULTURAL EXPERIMENT STATION. Abstracts of recent publications. *Kans. Agr. Expt. Sta. Abs.* 8,2 p. Feb. 1951. 100 K134

49036 KANSAS. AGRICULTURAL EXPERIMENT STATION. Publication list. *Kans. Agr. Expt. Sta. C.* 269,4 p. Feb. 1951. 100 K138

49037 KRYZHANOVSKIĬ, S. G. Theoretical principles of embryology. (In Russian.) *Uspekhi Sovrem. Biol.* 30:382-413. Nov./Dec. 1950. 442.3 Er3

49038 LAMBERT, J. G. Faits et idées d'hier et d'aujourd'hui en matière d'évolution et d'hérédité. *Ann. de Gembloux* 57:1-22. (To be cont.) First Q. 1951. 13 G28

49039 LEONOV, N. I. New stage in the development of microbiology. (In Russian.) *Veterinarifa* 27(11):7-11. Nov. 1950. 41.8 V6426

49040 LUND, O. Marketing of economic poisons. (In Norwegian.) *Gartneryrket* 41:38-39. Jan. 20, 1951. 80 G1938

Regulations.

49041 OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. Abstract of new publications and list of publications available. *Okla. Agr. Expt. Sta. What's New Okla. Agr.* 21,18 p. Jan. 1951. 100 Ok4W

49042 OLSSON, K. A short account of the theory of heredity. (In Swedish.) *Bitidningen* 50:33-39. Feb. 1951. 424.8 B54

49043 POLEZHAEV, L. V. Problems of experimental morphology. (In Russian.) *Uspekhi Sovrem. Biol.* 30:414-437. Ref. Nov./Dec. 1950. 442.3 Er3

49044 SIROTTI, G. Activity of the Agricultural Inspectorate during 1950. (In Italian.) *Romagna Agr. e Zootec.* 36:1-4. Jan. 1951. 16 R66

49045 TENNESSEE. DEPT. OF AGRICULTURE. Farming and youth; thirty-eighth biennial report, 1949-1950. Nashville, 1950. 398 p. 2 T25R



49046 U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. Abstracts of patents granted January-December 1950. U. S. Bur. Agr. & Indus. Chem. AIC-230(sup.2), 4 p. Feb. 6, 1951. 1.932 A2Ag82

49047 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Evaluation of activities of Bureau of Human Nutrition and Home Economics. Washington, 1951. 5 p. 1.982 A2Ev1

49048 U. S. CONGRESS. HOUSE. COMMITTEE ON APPROPRIATIONS. Department of Agriculture appropriations for 1952. Hearings, 82d Cong., 1st sess., 1-2. Washington, 1951. 1392 p. 1 Ag81Hes

49049 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Origin, structure, and functions of the U. S. Department of Agriculture. Rev. Washington, 1951. 25 p. (Doc. 1) 1.914 A2Or4

49050 U. S. NORTHERN REGIONAL RESEARCH LABORATORY. List of publications and patents, July-December 1950. U. S. Bur. Agr. & Indus. Chem. AIC-187(sup.6), 10 p. Mar. 28, 1951. 1.932 A2Ag82

49051 U. S. WESTERN REGIONAL RESEARCH LABORATORY. List of publications and patents with abstracts, July 1-Dec. 31, 1950. U. S. Bur. Agr. & Indus. Chem. AIC-218(sup.6), 9 p. 1951? 1.932 A2Ag82

### HISTORY AND BIOGRAPHY

49052 AGRONOMOS ilustres: D. Juan Marcilla Arrazola (1886-1950). Spain. Min. de Agr. Serv. de Capacitación y Propag. B. Bibliog. Agr. 14:199-206. Ref. Oct./Dec. 1950. 241 Sp1

49053 BERG, K. August Krogh in memoriam. Hydrobiologia 2:380-382. Nov. 15, 1950. 410 H992

49054 BRAZELTON, J. S. Lincoln: what he did for agriculture. Kans. Farmer 88(3):5. Feb. 3, 1951. 6 K13 Includes legislation relating to agriculture.

49055 COLEMAN, E. The late Professor Oakes Ames (1874-1950): Victorian Nat. 67:184-185. Jan. 3, 1951. 410 V66

49056 DE WORMS, C. G. M. Obituary. Harry Haynes. Entomologist 84:48. Feb. 1951. 421 En8

49057 ESMENARD, G., and CELIDONIO, C. Piedmont agriculture in the last hundred years. (In Italian.) Cong. Agr. Naz. Atti 1948:61-111. 1950. 27 C7625

49058 EVERARD, W. P. William A. Dayton. J. Forestry 49:287-288. Apr. 1951. 99.8 F768

49059 FAUST, E. C. Charles Franklin Craig (1872-1950); an appreciation. Amer. J. Trop. Med. 31:267-269. Mar. 1951. 448.8 Am33

49060 FOGG, J. M., JR. Fernald as a teacher. Rhodora 53:39-43. Feb. 1951. 450 R34

49061 GAIDUKOVICH, G. F. Early history of agriculture in Middle Asia. Sowest. J. Anthropol. 6(1):21-31. Spring 1950. 34G12

49062 GARCIA-MENENDEZ, B. 1900-1950, medio siglo de agricultura aragonesa. Saragossa. Cdm. Ofic. Sind. Agr. B. Mens. 32:21-22. Jan. 1951. 15 Sa7

49063 GENKEL', P. A. D. I. Ivanovskii as the founder of the study of virus diseases and plant physiologist. (In Russian.) Zhur. Obshch. Biol. 11:405-415. Ref. Nov./Dec. 1950. 442.8 Z6

49064 GUINER, P. Lucien Cuénot (1866-1951). Rev. Forest. Franç. 1951:161-164. Mar. 1951. 99.8 R329

49065 HASELHUHN. Vom wirken Karl Friedrich August Grebes in Thüringen (1850-1890). Forstwirtschaft. 4:376-379. Dec. 1/15, 1950. 99.8 F7793

49066 HERBERT, D. A. In memoriam - Cyril Tenslon White. Austral. Orchid Rev. 15:94. Dec. 1950. 80 Au73

49067 HERTZ-KLEPTOW. Max Lincke. Forstarchiv 21:144-145. Dec. 15, 1950. 99.8 F7723

49068 JUSZKIEWICZ, T. The achievements of Professor Dr. Olga Lepieczyńska in biology. (In Polish.) Med. Weter. 6:569-572. Oct. 1950. 41.8 M463

49069 KIRBY, H. Charles Atwood Kofoid, 1865-1947. Hydrobiologia 2:383-385. Nov. 15, 1950. 410 H992

49070 LASSER, T. Apuntes sobre la vida y obra de Henri Pittier. Soc. Venezol. de Cien. Nat. B. 13(76):1-5. Jan./July 1950. 516 C172

49071 LE GALLO, C. Le Pere Theophile Klaine, missionnaire au Gabon et botaniste 1840-1911. Nat. Canad. 77:318-333. Ref. Nov.-Dec. 1950. 410 N216

49072 LEITE, A. P. DE S. Alexandre Herculano and Portuguese rural life. (In Portuguese.) Vida Agr. [Lisboa] 13(81):1-2. Jan./Feb. 1951. 15.5 V66

49073 MAIER, K. Christian Konrad Sprengel, der Entdecker der Blütenbiologie (1750-1816). Südwestdeut. Imker 2:340-341. Dec. 1950. 424.8 Su25

49074 MARQUIS, A. In memoriam J. Ulysse Demers, 1899-1950. Nat. Canad. 77:334-336. Nov.-Dec., 1950. 410 N216

49075 MITSCHERLICH, G. Eilhard Wiedemann. Forstarchiv 21:141-143. Dec. 15, 1950. 99.8 F7723 Includes list of his publications.

49076 MÜGGE. Bilder aus der Geschichte der deutschen Landwirtschaft. Landwirt. Wchnbl. f. Westfalen u. Lippe 108A:403-404. Mar. 15, 1951. 18 L2346

49077 MYERS, W. T. U. S. agriculture at mid-century. Nowest. Miller 245(12):24. Mar. 20, 1951. 298.8 N81

49078 ORFILA, R. N. Doctor Filippo Silvestri (1873-1949). Soc. Ent. Argentina. Rev. 14:321-326. Oct. 14, 1950. 420 So14

49079 PEARSON, F. A., MYERS, W. I., and WARREN, S. W. A half-century of New York agriculture. N. Y. Agr. Col. Farm Econ. 179:4638-4642. Mar. 1951. 280.8 C812

49080 PEASE, A. S. Merritt Lyndon Fernald, 1873-1950. Rhodora 53:33-39. Feb. 1951. 450 R34

49081 PHELPS, F. T. Only one thing he couldn't do; Andrew Jackson was one of most colorful personalities ever to occupy the White House but he failed in one great effort; couldn't whip Haynie's Maria. Thoroughbred Rec. 153(10):12-13, 24. Mar. 10, 1951. 42.8 T39 Jackson as horse breeder and racer.

49082 PRODAN, M. Dr. h. c. W. Hohenadl. Forstarchiv 21:143-144. Ref. Dec. 15, 1950. 99.8 F7723 Includes list of his publications.

49083 ROGERS, G. A. French agricultural developments, 1919-1939. Mich. U. Microfilm Abs. 11:95-96. 1951. 241.8 M58

49084 RONCHI, V. Italian agriculture in the last hundred years. (In Italian.) Cong. Agr. Naz. Atti 1948:41-60. 1950. 27 C7625

49085 RUPP, H. M. R. Robert Brown—a brief memoir. Austral. Orchid Rev. 15:110. Dec. 1950. 80 Au73

49086 SCHULTES, R. E. Oakes Ames, 1874-1950. Rhodora 53:67-78. Mar. 1951. 450 R34

49087 SIBILIA, C. Lionello Petri as a teacher and a researcher. (In Italian.) Sta. di Patol. Veg. B. (ser. 3) 6: XVII-XIX. 1948, pub. 1950. 464.9 R662 English summary.

49088 SKOTTSBERG, C. Pehr Kalm, 1716-1779. Svenska Vetenskakad. Arsb. 1950:279-365. 502 St6A

49089 SOKOLOV, N. S. M. G. Pavlov and his role in the development of Russian agronomy (To the 110th anniversary of his death). (In Russian.) Sovet. Agron. 8 (12):70-80. Ref. Dec. 1950. 20 So84

49090 TAKHTADZHIAN, A. L. B. M. Kozo-Polianskiĭ [1890- ] to the 60th anniversary of his birth. (In Russian.) Bot. Zhur. 35:416-431. July/Aug. 1950. 451 R923 Includes list of his botanical contributions.

49091 WATSON, J. A. S. English agriculture in 1850-51. Roy. Agr. Soc. Eng. J. 111:9-24. 1950. 10 R81

49092 WATT, R. D. Some benefactors of Australian agriculture. Rev. Mktg. & Agr. Econ. 18:265-275. Dec. 1950. 286.8 N47M Historical.

49093 WILLNER, G. J. El P. Dr. Albino J. Bridaroli ante la entomología. Soc. Ent. Argentina. Rev. 14: 253-262. Oct. 14, 1950. 420 So14

### HOME MANAGEMENT

49094 LACY, E. Judging home economics products in 4-H Club work. Ky. Agr. Col. Ext. 4-H 222, rev., 16 p. Feb. 1951. 275.29 K415Fh

49095 MCIVER, J. The underworld of fashion. N. C. Agr. Col. Ext. Misc. Pam. 131, 5 p. Feb. 1951. 275.29 N811M Foundation garments.

49096 MUSE, M. Seating housewives at their ironing. Vt. Agr. Expt. Sta. B. 559, 68 p. Feb. 1951. 100 U59

49097 NOLAN, F. L., and SPRAGUE, D. C. Adjustable walls for space study. Pa. Agr. Expt. Sta. Prog. Rpt. 43, 4 p. Feb. 1951. 100 P381P

49098 PENNSYLVANIA. STATE COLLEGE. AGRICULTURAL EXTENSION SERV. Charm in the home. Pa. State Col. Agr. Ext. C. 374, 16 p. Jan. 1951. 275.29 P38C

49099 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Patterns for functional clothes. Washington 1951. 1 p. 1.982 T2P273

49100 U. S. EXTENSION SERV. Home demonstration work; education for living, by M. J. Reese. Washington, 1950. 10 p. 1.913 H2H753 Published in the County Officer, July 1950.



49101 WEAVER, E. K., and WALTERS, M. An easy way to iron a shirt. Ohio. Agr. Col. Ext. B. 319,8 p. Feb. 1951. 275.29 Oh32

### INTERNATIONAL RELATIONS

49102 DOMINGUES, O. Brazil in the IV Inter-American Conference of Agriculture. (In Portuguese.) Seleç. Agr. 6(57):11-12. Jan.1951. 9.2 Se4

49103 HOMAN, J. L. Un aspect ardu du secteur agricole international. Soc. Belge d'Études et d'Expansion B. Bimes. 50(144):174-179. Jan./Feb.1951. 280.8 So17

49104 IVERSON, K. R. Progress of the Institute of Inter-American affairs—Point IV in action. Foreign Com. Wk. 43(2):3-5,28-30. Apr.9,1951. 157.54 F763  
Includes the agricultural program.

49105 U. S. EXTENSION SERV. Summary report of young French farmer program, 1950, by T. G. Hornung. Washington,1951. 7 p. 1.913 S2Su692

### METEOROLOGY

49106 ABRIOUX. Nuages et pluie artificiels. Chambre d'Agr. de Casablanca. B. 21(236):17-19,21. Dec.1950. 24 C26

49107 BERGEIRO, J. M. Cómo puede saberse con anticipación las condiciones térmicas del tiempo. Uruguay. Min. de Ganad. y Agr. B. Inform. 7(357):7. Jan.25, 1951. 9.9 G15B

49108 CAMPBELL, I. J. Now they're seeding the clouds. Cotton Gin & Oil Mill Press 52(7):9-10. Mar.31, 1951. 304.8 C822

Rain control.

49109 DIGHTMAN, R. A. Rainmaking, proven or experimental? Mont. Farmer-Stockman 38(14):7,18. Mar. 15,1951. 6 M764

49110 FLEMING, R. Man-made weather. Mont. Farmer-Stockman 38(13):1,9,20. Mar.1,1951. 6 M764

49111 HOUGHTON, H. G. An appraisal of cloud seeding as a means of increasing precipitation. Amer. Met. Soc. B. 32:39-46. Feb.1951. 340.8 Am32

49112 MARTIN, W. W. A report on those cloud-milk-ers. West. Farm Life 53(8):5,32. Apr.15,1951. 6 R153

49113 MONOD, T. Enquête sur le dessèchement en A. O. F. Rev. Internat. de Bot. Appl. et d'Agr. Trop. 30: 633-636. Nov./Dec.1950. 26 R323

49114 RUTHERFORD, J. The measurement of climatic risk in the Western Division of New South Wales. Rev. Mktg. & Agr. Econ. 18:246-264. Dec.1950. 286.8 N47M

49115 LAGOS U., J. A. Meteorología agrícola. Agr. Costarricense 9:43. Jan.1951. 8 Ag895

49116 SCHAUS, R. Rainmaking, it's a respectable science now. West. Livestock J. 29(16):42-43, 188-189. Feb.15,1951. 6 F2278

49117 TORRECABRERA, J. Previsión del tiempo. I. Cult. Mod. 34:6-7. Jan.1951. 15 C89

Spain.

49118 WORK, P. Some notes about weather for vegetable growers; with a little basic knowledge of weather science, we can begin to make fuller use of the Weather Bureau services and our own non-professional observations. I. Mkt. Growers J. 80(3):12,56. Mar.1951. 6 M34

### PERSONNEL

49119 U. S. DEPT. OF AGRICULTURE. OFF. OF PERSONNEL. Classification in a nutshell. U. S. D. A. Admin. Ser. 11,27 p. 1951? 1 P432A

### RESEARCH

49120 BONDORFF, K. A. On the coordination of agricultural research. (In Danish.) Tolvmåndsbladet 23:60-64. Mar.1951. 11 T5M

In Denmark.

49121 CANADA. EXPERIMENTAL FARMS SERV. DOMINION EXPERIMENTAL STATION, L'ASSOMPTION. Progress report, 1937-1946. Ottawa,1950. 80 p. 101 Ex6R

49122 CANADA. EXPERIMENTAL FARMS SERV. DOMINION EXPERIMENTAL STATION, SUMMERLAND. Progress report, 1937-1948. Ottawa,1950. 101 p. 101 Ex6R

49123 CANADA. EXPERIMENTAL FARMS SERV. DOMINION EXPERIMENTAL SUBSTATION, FORT VERMILION. Progress report, 1939-1948. Ottawa,1950. 40 p. 101 Ex6R

49124 FRANCE. EMBASSY. U. S. AGRICULTURAL SECT. List of agricultural experiment stations, in Algeria. Washington 1950? 4 p. 225 F76

49125 INDIANA. AGRICULTURAL EXPERIMENT STATION. Progress of agricultural research in Indiana; sixty-third annual report, 1949/50. Lafayette,1950? 150 p. 100 In2P

49126 ISRAEL. RESEARCH COUNCIL. First annual report for the year ending 31 March, 1950. Jerusalem, 1950. 30 p. 330.9 Is72

Includes agricultural research.

49127 JOY, B. The interrelation and responsibility of the district supervisor to research. Washington, U. S. Agr. Res. Admin.,1950. 6 p. 1.98 J84

Address at Atlanta, Asheville, and College Station, Texas, Nov. 27, 28, 30. 1950, respectively.

49128 MENERET, G., and DROUINEAU, G. La recherche agronomique aux Etats-Unis. France. Min. de l'Agr. B. Tech. d'Inform. 55:821-841. Dec.1950. 14 F844B

49129 MISSISSIPPI. AGRICULTURAL EXPERIMENT STATION. 63rd annual report fiscal year ending June 30, 1950. State College?1951? 83 p. 100 M69

49130 NEBRASKA. AGRICULTURAL EXPERIMENT STATION. 63rd annual report. Lincoln,1950. 162 p. 100 N27

49131 NEW YORK (CORNELL) AGRICULTURAL EXPERIMENT STATION. Sixty-third annual report of the College of Agriculture at Cornell University and of the Cornell University Agricultural Experiment Station, 1950. Ithaca?1951. 192 p. 100 N48C

49132 PERSSON, A. R. Impressions from England. I. Rothamsted Experimental Station. (In Norwegian.) Gartneryrket 41:71-73. Feb.3,1951. 80 G1938

49133 RAINERI, C. Scientific research in agriculture and the need for planning. (In Italian.) Agenzia Romana Note e Inform. Agr. 1951(22):1. Apr.2,1951. 281.8 Ag3

49134 READING, ENGLAND. UNIVERSITY COLLEGE. Guide to the University farm, Sonning, 1950-51. Reading, 1950. 31 p. 103 R22G

Agricultural research.

49135 STEWART, J. L. Where farmers finance agricultural research; famous institutions in Scotland established by generosity and enterprise of individuals. Farmer's Wk. [Bloemfontein] 80:10-11,13. Feb.21,1951. 24 F225

49136 U. S. AGRICULTURAL RESEARCH ADMIN. Report of the administrator, 1949/50. Washington,1951. 488 p. 1.98 R29

49137 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. The allergen hunters, by T. McGinty, H. Stevens, J. Coulson, and J. Spies. Washington,1951. 6 p. 1.914 R2R11

Research on the chemistry of allergens in farm products.

49138 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Important recent achievements of Department of Agriculture scientists. Rev. Washington,1951. 23 p. (Doc. 6) 1.914 A2M85

49139 VIRGINIA. AGRICULTURAL EXPERIMENT STATION. Agricultural research; report for the year ending June 30, 1950. Blacksburg,1950. 112 p. 100 V81S

### STATISTICS

49140 BARAT, A. Les statistiques agricoles aux Etats-Unis. France. Min. de l'Agr. B. Tech. d'Inform. 55: 879-881. Dec.1950. 14 F844B

49141 CLEMENS. Erntestatistik im winter. Statis. Praxis 6:11-12. Jan.1951. 251.8 St25

Methodology.

49142 CONCEIÇÃO, A. J. DA. Test of homogeneity of variances—Bartlett. (In Portuguese.) Bahia. Sec. da Agr., Indus. e Com. Serv. de Divulg. B. 46(6):157-163. Mar.1950. 9.2 B14

49143 FEDERER, W. T. General theory of prime-power lattice designs. IV. Analysis of  $p^4$  treatments in blocks of  $p$  plots with four or more replicates. N. Y. (Cornell) Agr. Expt. Sta. Mem. 299,29 p. Oct.1950. 100 N48C

49144 MORGENSTERN, O. On the accuracy of economic observations. Princeton,Princeton U. Press,1950. 101 p. Ref. 280 M823On

Contains a section on agricultural statistics.

49145 VAN ARSDEL, W. B. Convergence criteria in numerical solution of the diffusion equation. U. S. Bur. Agr. & Indus. Chem. AIC-287,18 p. June 1950. 1.932 A2Ag82



U. S. D. A. PUBLICATIONS

Includes publications of the United States Department of Agriculture received in the Library during the preceding month, except restricted publications and materials issued for internal administrative use rather than for public distribution

Periodicals issued by the Department are listed in the November issue only, articles in them are indexed currently

Domestic requests for publications in the various Department series will be filled free upon application to the Office of Information, United States Department of Agriculture, Washington 25, D. C., as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington 25, D. C.

Bureau publications may ordinarily be obtained free of charge from the issuing bureau as long as the supply lasts

Foreign institutions, organizations and agencies which issue publications may obtain United States Department of Agriculture publications in exchange by writing to the United States Department of Agriculture Library, Washington 25, D. C.

Administrative Series

U. S. DEPT. OF AGRICULTURE. OFF. OF PERSONNEL. Classification in a nutshell. U. S. D. A. Admin. Ser. 11,27 p. 1951? 1 P432A

Bibliographical Bulletins

BARNES, H. V., and ALLEN, J. M., comps. A bibliography of plant pathology in the Tropics and in Latin America. U. S. D. A. Bibliog. B. 14,78 p. Feb. 1951. 1 Ag84Bi

ROSE, D. H., COOK, H. T., REDIT, W. H. Harvesting, handling, and transportation of citrus fruits; a digest of information on the subject published mostly from 1938 to 1948. U. S. D. A. Bibliog. B. 13,178 p. Ref. Jan.1951. 1 Ag84Bi

Circulars

BATJER, L. P., and HOFFMAN, M. B. Fruit thinning with chemical sprays. U. S. D. A. C. 867,46 p. Ref. Mar.1951. 1 Ag84C

HURTT, L. C. Managing northern Great Plains cattle ranges to minimize effects of drought. U. S. D. A. C. 865,24 p. Ref. Mar.1951. 1 Ag84C

SOMERS, R. K. The lymph glands of cattle, hogs, and sheep. U. S. D. A. C. 866,rev.,29 p. Jan.1951. 1 Ag84C  
Supersedes Circular 32.

Farmers' Bulletins

BEATTIE, J. H., and DOOLITTLE, S. P. Muskmelons. U. S. D. A. Farmers' B. 1468,rev.,38 p. Mar.1951. 1 Ag84F

JOHNSON, E. W. Ornamental shrubs for the southern Great Plains. U. S. D. A. Farmers' B. 2025, 61 p. Feb.1951. 1 Ag84F

Leaflets

THOMPSON, M. A. Some questions and answers on where and how to get a farm. U. S. D. A. L. 299,rev.,4 p. Dec.1950. 1 Ag84L

Revision of U. S. Dept. of Agriculture AIS-19.

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Chigger [Eutrombicula alfreddugesi] control. U. S. D. A. L. 302,7 p. Apr.1951. 1 Ag84L

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Expansible farmhouses. U. S. D. A. L. 301,4 p. Apr.1951. 1 Ag84L

Program Aid

U. S. PRODUCTION AND MARKETING ADMIN. Corn needed for defense, 1951. U. S. D. A. PA-151,4 p.-folder. Mar.1951. 1 Ag84Pro

U. S. PRODUCTION AND MARKETING ADMIN. Soybeans needed for defense, 1951. U. S. D. A. PA-153, 4 p.-folder. Mar.1951. 1 Ag84Pro

U. S. PRODUCTION AND MARKETING ADMIN. Wheat needed for defense, 1951. U. S. D. A. PA-152,4 p.-folder. Mar.1951. 1 Ag84Pro

U. S. RURAL ELECTRIFICATION ADMIN. Charts & posters for REA co-ops. Rev. U. S. D. A. PA-155,7 p. Mar.1951. 1 Ag84Pro

U. S. RURAL ELECTRIFICATION ADMIN. Cold facts; how members of frozen food locker co-ops can eat better for less. U. S. D. A. PA-142,12 p. 1951. 1 Ag84Pro

U. S. RURAL ELECTRIFICATION ADMIN. Slides and slidefilms for REA co-ops. U. S. D. A. PA-154,8 p. Mar.1951. 1 Ag84Pro

Statistical Bulletins

COYNER, M. S., comp. Cuban trade in principal agricultural products. U. S. D. A. Statis. B. 96,34 p. Feb.1951. 1 Ag84St

MEADOWS, B. Trends in the consumption of fibers in the United States, 1892-1948. U. S. D. A. Statis. B. 89,79 p. Dec.1950. 1 Ag84St

Technical Bulletins

HEWSTON, E. M., FISHER, M., and KEILES, E. O. Comparison of the 2,6-dichlorophenolindophenol and 2,4-dinitrophenylhydrazine methods with the Cramp-ton bioassay for determining vitamin C values in foods. U. S. D. A. Tech. B. 1023,30 p. Ref. Jan.1951. 1 Ag84Te

SIMONS, J. W., and LANHAM, F. B. Factors affecting temperatures in Southern farmhouses. U. S. D. A. Tech. B. 822,rev.,91 p. Ref. Feb.1951. 1 Ag84Te

Unnumbered Publications

U. S. DEPT. OF AGRICULTURE. Agricultural statistics, 1950. Washington,1951. 791 p. 1 Ag84Yas

AGRICULTURAL AND INDUSTRIAL CHEMISTRY, BUREAU OF

BADGETT, C. O., and WOODWARD, C. F. Extraction of "essence" from tobacco stems. U. S. Bur. Agr. & Indus. Chem. AIC-298,10 p. Ref. Feb.1951. 1.932 A2Ag82

DIETZ, T. J., and HANSEN, J. E. Butyl acrylate-acrylonitrile rubbers resistant to heat, oils, and low temperatures. U. S. Bur. Agr. & Indus. Chem. AIC-302, 6 p. Ref. Mar.1951. 1.932 A2Ag82

FILACHIONE, E. M., and others. Lactic acid derivatives as plasticizers esters of polymeric lactic acid. U. S. Bur. Agr. & Indus. Chem. AIC-295,11 p. Ref. Feb.1951. 1.932 A2Ag82

E. J. Costello, T. J. Dietz, and C. H. Fisher, joint authors.

FISHER, C. H., DIXON, M. B., and FILACHIONE, E. M. Bibliography on lactic acid and derivatives. U. S. Bur. Agr. & Indus. Chem. AIC-294,135 p. Feb. 1951. 1.932 A2Ag82

HENDEL, C. E., BURR, H. K., and BOGGS, M. M. Factors affecting storage stability of potato granules. U. S. Bur. Agr. & Indus. Chem. AIC-303,8 p. Ref. Mar.1951. 1.932 A2Ag82

TEUTON, F. L. Chemurgic research by the United States Department of Agriculture. Washington, U. S. Bur. Agr. & Indus. Chem.,1951. 14 p. 1.98 T29

Talk before meeting of the National Farm Chemurgic Council, Cincinnati, Apr. 17, 1951.



U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. Abstracts of patents granted January-December 1950. U. S. Bur. Agr. & Indus. Chem. AIC-230(sup. 2), 4 p. Feb. 6, 1951. 1.932 A2Ag82

U. S. NORTHERN REGIONAL RESEARCH LABORATORY. List of publications and patents, July-December 1950. U. S. Bur. Agr. & Indus. Chem. AIC-187(sup. 6), 10 p. Mar. 28, 1951. 1.932 A2Ag82

U. S. NORTHERN REGIONAL RESEARCH LABORATORY. List of publications, proteins and related subjects. U. S. Bur. Agr. & Indus. Chem. AIC-228(sup. 3), 2 p. 1950. 1.932 A2Ag82

U. S. NORTHERN REGIONAL RESEARCH LABORATORY. List of publications, vegetable oils and related subjects. U. S. Bur. Agr. & Indus. Chem. AIC-184(sup. 3), 2 p. 1950. 1.932 A2Ag82

U. S. WESTERN REGIONAL RESEARCH LABORATORY. List of publications and patents with abstracts, July 1-Dec. 31, 1950. U. S. Bur. Agr. & Indus. Chem. AIC-218(sup. 6), 9 p. 1951? 1.932 A2Ag82

VAN ARSDEL, W. B. Convergence criteria in numerical solution of the diffusion equation. U. S. Bur. Agr. & Indus. Chem. AIC-287, 18 p. June 1950. 1.932 A2Ag82

WALL, M. E. Preparation of chlorophyll derivatives for industrial and pharmaceutical use. U. S. Bur. Agr. & Indus. Chem. AIC-299, 7 p. Ref. Mar. 1951. 1.932 A2Ag82

#### AGRICULTURAL ECONOMICS, BUREAU OF

U. S. BUR. OF AGRICULTURAL ECONOMICS. Agricultural economic and statistical publications. Washington, 1951. 69 p. 1.9 Ec731La

U. S. BUR. OF AGRICULTURAL ECONOMICS. Consumer fruit and juice purchases, Oct.-Dec. 1950, by regions and type of retail outlet. Washington, 1951. 57 p. 1.941 M3R26

U. S. Production and Marketing Administration cooperating.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm production, disposition, cash receipts and gross income for chickens and eggs, 1949-1950, by E. S. Kimball, P. W. Smith, and R. F. Moore. Washington, 1951. 16 p. 1.9 Ec71Fpc

U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm production, disposition, cash receipts and gross income for turkeys, 1949-1950. Washington, 1951. 8 p. 1.942 D22T84

U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm wage rates by States, revised, 1910-1948. Washington, 1951. 73 p. 1.941 R3F2227

U. S. BUR. OF AGRICULTURAL ECONOMICS. Florida vegetable crops; annual statistical summary, 1950, VI, by J. B. Owens, G. N. Rose, J. C. Townsend, Jr. and D. L. Brooke. Orlando, 1951? 128 p. 1.941 H8V526

U. S. BUR. OF AGRICULTURAL ECONOMICS. Merchantable potato stocks large on March 1 despite continued heavy marketings in February. Washington, 1951. 2 p. 1.941 S8P85

U. S. BUR. OF AGRICULTURAL ECONOMICS. Numbers and value of livestock on North Carolina farms, January 1, 1951. Raleigh, 1951. 2 p. 1.941 H8L75

#### AGRICULTURAL RESEARCH ADMINISTRATION

JOY, B. The interrelation and responsibility of the district supervisor to research. Washington, U. S. Agr. Res. Admin., 1950. 6 p. 1.98 J84  
Address at Atlanta, Asheville, and College Station, Texas, Nov. 27, 28, 30, 1950, respectively.

SHAW, B. T. Defense needs in the chemurgic field. Washington, U. S. Agr. Res. Admin., 1951. 13 p. 1.98 Sh2

Talk at meeting of National Farm Chemurgic Council, Apr. 19, at Cincinnati.

U. S. AGRICULTURAL RESEARCH ADMIN. Report of activities under the Research and Marketing Act, 1949/50. Washington, 1950. 36 p. 1 Ag84

U. S. AGRICULTURAL RESEARCH ADMIN. Report of the administrator, 1949/50. Washington, 1951. 488 p. 1.98 R29

#### DAIRY INDUSTRY, BUREAU OF

MALKAMES, J. P., JR., WALTER, H. E., and SAGER, O. S. Enzymatic hydrolysis of whey protein for use in foods. U. S. Bur. Dairy Indus. BDI-Inf-118, 4 p. Mar. 1951. 1.973 D4B34

U. S. BUR. OF DAIRY INDUSTRY. Partial list of references relating to fermented and cultured milks. U. S. Bur. Dairy Indus. BDI-Inf-120, 4 p. Mar. 1951. 1.973 D4B34

WALTER, H. E., MALKAMES, J. P., JR., and SAGER, O. S. Making a spread from hydrolyzed Swiss-cheese whey protein and cultured cream. U. S. Bur. Dairy Indus. BDI-Inf-119, 4 p. Mar. 1951. 1.973 D4B34

#### ENTOMOLOGY AND PLANT QUARANTINE, BUREAU OF

BECK, E. W., comp. Estimates of damage by the European corn borer [*Pyrausta nubilalis*] to field corn in the United States in 1950. U. S. Bur. Ent. & Plant Quar. Insect Pest Survey. Spec. Sup. 1951(3), 2 p. Mar. 23, 1951. 1.9 En831B

DAVIS, J. M. A vibratory apparatus for producing drops of uniform size. U. S. Bur. Ent. & Plant Quar. ET-295, 2 p. Apr. 1951. 1.9 En83Et

EATON, C. B., and SECRET, J. P. A laboratory spray chamber for producing deposits of limited drop size. U. S. Bur. Ent. & Plant Quar. ET-293, 6 p. Mar. 1951. 1.9 En83Et

MILLER, J. M., and ISLER, D. A. Dual spray equipment for airplane spraying tests. U. S. Bur. Ent. & Plant Quar. ET-294, 4 p. Mar. 1951. 1.9 En83Et

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Conference Report on Cotton Insect Research and Control, Memphis, Tennessee, December 4-6, 1950. Washington? 1950. 39 p. 1.967 A2C76

Twelve cotton-growing States cooperating.

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Grasshopper and Mormon cricket [*Anabrus simplex*] control. Washington? 1951. 2 p. 1.967 A2G76Z

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Gypsy moth [*Porthetria dispar*] control and quarantine. Washington? 1950? 1 p. 1.967 A2G993

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Imported cabbageworm (*Pieris rapae* (L.)). U. S. D. A. Picture Sheet 9, rev., 2 p. Feb. 1951. 1 En86P

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Japanese beetle [*Popillia japonica*] control. Washington, 1951? 1 p. 1.967 A2J27

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Commonwealth of Australia. U. S. Bur. Ent. & Plant Quar. B. E. P. Q. 476, rev., 19 p. Mar. 6, 1951. 1.9 F73

WHITE, R. T., and McCABE, P. J. Colonization of the organism causing milky disease of Japanese beetle [*Popillia japonica*] larvae, 1939-1949. U. S. Bur. Ent. & Plant Quar. E-816, 10 p. Apr. 1951. 1.9 En83

#### EXTENSION SERVICE

DIXON, H. M. Economics extension work—trends and needs. Washington, U. S. Ext. Serv., 1951. 15 p. 1.913 E2D64

Paper delivered at Agricultural Economics Seminar, Cornell University, Ithaca, Mar. 12, 1951.

U. S. EXTENSION SERV. Announcement, twenty-first National 4-H Club Camp, Washington, D. C. June 13-20, 1951. Washington, 1951. 12 p. 1.9 Ex892Fba

U. S. EXTENSION SERV. A catalog of educational materials for use with food retailers. Rev. Washington, 1951. 42 p. 1.913 A2C28

U. S. EXTENSION SERV. Extension health education; summary of a round table conference at Kansas City, Missouri, February 5-9, 1950. Washington, 1951. 34 p. 1.913 A5Ex8

U. S. EXTENSION SERV. Extension specialists in parent and family life education, child development. Washington, 1951. 3 p. 1.913 A2Ex862

U. S. EXTENSION SERV. Home demonstration work; education for living, by M. J. Reese. Washington, 1950. 10 p. 1.913 H2H753

Published in the County Officer, July 1950.



U. S. EXTENSION SERV. Observance of Rural Life Sunday by 4-H Clubs, 1951, by G. L. Warren. Washington, 1951. 21 p. 1.913 F3Ob7

U. S. EXTENSION SERV. Report of International Farm Youth Exchange Project, 1951, by E. W. Aiton. Washington, 1950. 4 p. 1.913 A2R296

U. S. EXTENSION SERV. Suggestions for training extension foreign students in States and counties. Washington, 1951. 8 p. 1.913 S2Su36

U. S. EXTENSION SERV. Summary report of young French farmer program, 1950, by T. G. Hornung. Washington, 1951. 7 p. 1.913 S2Su692

U. S. EXTENSION SERV. Who's to blame for rayon's bad name? Notes from a series of articles on rayon, by A. Linn. Washington, 1951. 5 p. 1.913 A2W623

#### FARM CREDIT ADMINISTRATION

GARDNER, K. B., and MCKAY, A. W. The California Fruit Growers Exchange system. U. S. Farm Credit Admin. C. C-135, 124 p. Ref. May 1950. 166.2 C4923

Revision of U. S. Farm Credit Administration Circular C-121.

U. S. FARM CREDIT ADMIN. Production credit associations; summary of operations, calendar year 1950. Washington? 1951. 21 p. 1.955 P2Su6

#### FARMERS HOME ADMINISTRATION

U. S. FARMERS HOME ADMIN. Activities of the water facilities program for Idaho. Annual report. Salt Lake City, 1951? 6 p. 1.949 Ac82

U. S. FARMERS HOME ADMIN. Annual report, Georgia Office, 1949/50. Atlanta, Ga., 1950. 7 p. 1.949 An74

U. S. FARMERS HOME ADMIN. Farm Ownership Family Progress Report, 1950. Washington, 1951. 115 p. 1.949 F2243

U. S. FARMERS HOME ADMIN. South Carolina annual report, 1949/50. Columbia, 1950. 7 p. 1.949 So8

#### FEDERAL CROP INSURANCE CORPORATION

U. S. FEDERAL CROP INSURANCE CORPORATION. FCI county procedure manual; beans—county acreage report procedure for 1951 and succeeding crop years. III. Washington, 1951. 12 p. 1.952 F114

#### FOREIGN AGRICULTURAL RELATIONS, OFFICE OF

DAVIS, F. E. Less meat for Europe from the Americas. Washington, U. S. Off. Foreign Agr. Relat., 1951. 6 p. 1.943 D29

Summary of remarks at annual convention of the American National Livestock Association, San Francisco, Jan. 9, 1951.

SCHREIBER, W. R. The Amazon Basin Brazil nut industry. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 49, slightly rev., 53 p. Mar. 1951. 1.943 F763

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. List of Foreign Agriculture reports and Foreign Agriculture circulars relating to studies conducted under the provisions of the Research and Marketing Act, from October 27, 1947 (the beginning) to January 1, 1951. Rev. Washington, 1951. 16 p. 1.943 L69

#### FOREST SERVICE

ANDERSON, I. V. Lignin for golf greens and other horticultural uses. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 87, 4 p. Jan. 1951. 1.9622 N3R31

BICKFORD, C. A. Form-class volume tables for estimating board-foot content of northern conifers. U. S. Forest Serv. Noeast. Forest Expt. Sta. Paper 38, 86 p. Jan. 1951. 1.9622 N2St22

BURKS, G. F., and POLI, A. Area and ownership of forest land in Siskiyou County, California. U. S. Forest Serv. Calif. Forest & Range Expt. Sta. Forest Survey Release 8, 23 p. Dec. 1950. 1.9 F7626F

CORNELIUS, D. R. Relative rating of forage species for reseeding forest ranges in northeastern California. U. S. Forest Serv. Calif. Forest & Range Expt. Sta. Forest Res. Note 76, 4 p. Feb. 26, 1951. 1.9 F7626R

FINCH, T. L. How fast is timber growing in eastern Montana? U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 88, 7 p. Feb. 1951. 1.9622 N3R31

FRANK, B. Watershed forestry to safeguard our soil, water, and timber. U. S. Forest Serv. Cent. States Forest Expt. Sta. Tech. Paper 119, 7 p. Mar. 1951. 1.9622 C3T222

HALLIN, W. E. Unit area control in California forests. U. S. Forest Serv. Calif. Forest & Range Expt. Sta. Forest Res. Note 77, 6 p. Mar. 15, 1951. 1.9 F7626R

HARRIS, G. A. St. Johnswort [*Hypericum perforatum*] on western ranges; a review of literature and bibliography. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Paper 26, 18 p. Feb. 1951. 1.9622 N3St1

HUEY, B. M. Montana Christmas tree shipments drop slightly. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 86, 3 p. Jan. 1951. 1.9622 N3R31

HUEY, B. M. Relation between the consumption of round timber and the production of ore in the metal mines of the northern Rockies. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 94, 3 p. Mar. 1951. 1.9622 N3R31

METCALF, M. E. Importance and causes of timber mortality in eastern Montana forests. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 93, 4 p. Mar. 1951. 1.9622 N3R31

MINCKLER, L. S. Fall planting of pine on upland soils of southern Illinois. U. S. Forest Serv. Cent. States Forest Expt. Sta. Tech. Paper 118, 11 p. Feb. 1951. 1.9622 C3T222

PUTNAM, J. A. Management of bottomland hardwoods. U. S. Forest Serv. South. Forest Expt. Sta. Occas. Paper 116, 60 p. Mar. 1951. 1.9 F7624O

U. S. FOREST SERV. Field offices of the United States Forest Service. Washington, 1950. 4 p. 1.962 A2F452

U. S. FOREST SERV. National forest facts, Southwestern region, Arizona and New Mexico, 1951. Washington? 1951. 35 p. 1.9621 R35T2

U. S. FOREST SERV. Norris-Doxey farm woodland management project; semiannual report July 1, 1950-January 1, 1951. Washington, 1951. 1 p. 1.962 C5Se5

U. S. FOREST SERV. P. W. I. standards (Regions 1-4 and 6). Washington? 1951. 112 p. 1.962 A2P948

U. S. FOREST SERV. Recreation use on National forests, 1950. Washington, 1951? 2 p. 1.9 F76Ru

U. S. FOREST SERV. Summary of distribution of forest planting stock by States for fiscal year 1950. U. S. Forest Serv. Tree Planters' Note 3, 2 p. Feb. 1951. 1.962 C5T71

U. S. FOREST SERV. CALIFORNIA FOREST AND RANGE EXPERIMENT STATION. 1950 addition to staff publications, California Forest and Range Experiment Station, by D. H. Vinther, comp. Berkeley, 1951. 7 p. 1.9 F7626St

U. S. FOREST SERV. INTERMOUNTAIN FOREST & RANGE EXPERIMENT STATION. Annual report, 1950. Ogden, Utah, 1951? 68 p. 1.9622 I2Au7

U. S. FOREST SERV. SOUTHERN FOREST EXPERIMENT STATION. Thirtieth annual report, 1950. New Orleans, 1951? 90 p. 1.9 F7624

WIKSTROM, J. H. 1950 pulpwood production drops. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 90, 1 p. Feb. 1951. 1.9622 N3R31

WOOLFOLK, E. J. Crested wheatgrass [*Agropyron cristatum*] grazing values. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 91, 10 p. Mar. 1951. 1.9622 N3R31

#### HUMAN NUTRITION AND HOME ECONOMICS, BUREAU OF

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Evaluation of activities of Bureau of Human Nutrition and Home Economics. Washington, 1951. 5 p. 1.982 A2Ev1



U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Household use of sugar, sirups, and honey, by 235 farm families in Meeker and Wright Counties, Minnesota, spring 1950. Preliminary. Washington, 1951. 2 p. 1.982 A2H813

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Meat: variations in consumption and interrelationships with other foods. U. S. Bur. Human Nutr. & Home Econ. Comm. Sum. 11,30 p. Apr. 1951. 1.982 A2C733

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Patterns for functional clothes. Washington? 1951. 1 p. 1.982 T2P273

#### INFORMATION, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. The allergen hunters, by T. McGinty, H. Stevens, J. Coulson, and J. Spies. Washington, 1951. 6 p. 1.914 R2R11

Research on the chemistry of allergens in farm products.

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Are your planting plans geared to the Nation's needs? by H. K. Hill, J. B. Hasselman, and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Better gum naval stores products, by E. L. Patton, A. R. Shirley, and T. McGinty. Washington, 1951. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Better meat type chickens, by H. R. Bird, C. W. Knox, and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Better products from southern crops (Lab. Tour No. 4, 1951 series), by C. H. Fisher, A. F. Freeman, J. D. Reid, and G. Loudon. Washington, 1951. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. How much gardening this year, by M. L. Wilson, R. J. Haskell, and J. Tonkin. Washington, 1951. 3 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Important recent achievements of Department of Agriculture scientists. Rev. Washington, 1951. 23 p. (Doc. 6) 1.914 A2M85

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Industrial uses for farm products, by R. T. Milner, R. W. Jackson, J. C. Cowan, and B. Burton. Washington, 1951. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. New styles in grass, by W. M. Myers, M. A. Hein, and K. M. Gapen. Washington, 1951. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Origin, structure, and functions of the U. S. Department of Agriculture. Rev. Washington, 1951. 25 p. (Doc. 1) 1.914 A2O4

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Save those baby pigs, by J. Zeller, H. W. Schoening, and M. Bliss. Washington, 1951. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Three-way food planning, by R. C. Lifquist, and Z. F. Rodenwold. Washington, 1951. 3 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. What farmers plan to plant, by C. E. Burkhead, R. Royston, and M. E. Bliss. Washington, 1951. 4 p. 1.914 R2R11

#### PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING, BUREAU OF

FITZPATRICK, E. G., and others. Soil survey, Woods County, Oklahoma. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Soil Survey. Ser. 1939(7), 107 p. Oct. 1950. 1 So32F

O. E. Stout, W. W. Lytle, and D. H. McMahan, joint authors.

HARDING, P. L., and others. Storage tests on Florida oranges, 1950. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 236, 10 p. Mar. 1951. 1.9 P772Ht

J. S. Wiant, W. A. Radspinner, M. B. Sunday, and J. Kaufman, joint authors.

HARVEY, E. M. Terminal market storage tests on California lemons, 1950. U. S. Bur. Plant Indus., Soils & Agr. Engin. H. T. & S. Off. Rpt. 238, 8 p. Mar. 1951. 1.9 P772Ht

J. S. Wiant, H. W. Hruschka, B. A. Friedman, and E. P. Atrops, joint authors.

JOHNSON, H. B., BUFORD, W. R., and RYALL, A. L. Storage tests on Florida and Texas grapefruit, 1950. U. S. Bur. Plant Indus., Soils, & Agr. Engin. H. T. & S. Off. Rpt. 237, 7 p. Jan. 25, 1951. 1.9 P772Ht

MENZIES, J. D., and NELSON, C. E. The effect of sprinkler irrigation on the spread of certain plant diseases. U. S. Bur. Plant Indus., Soils & Agr. Engin. Div. Soil Mangt. & Irrig. Res. Rpt. 206, 8 p. Mar. 15, 1951. 1.965 S4R312

NELSON, C. E., and MILLER, A. G. Progress report on varietal trials of cereal crops and soybeans. U. S. Bur. Plant Indus., Soils & Agr. Engin. Div. Soil Mangt. & Irrig. Res. Rpt. 209, 12 p. Mar. 30, 1951. 1.965 S4R312

SALTER, R. M. Recent research on the use of agricultural chemicals. Washington, U. S. Bur. Plant Indus., Soils, & Agr. Engin., 1951. 19 p. 1.965 A2Sa3

Address at meeting of the National Agricultural Chemical Association, Miami Beach, Apr. 4, 1951.

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. The National Potato-Breeding Program, 1950; twenty-first annual report to cooperators. Beltsville, Md., 1951. 227 p. 1.9 P772Pot

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Report of species and strains of grasses distributed through Western Grass Breeders' Work Planning Conference, 1949. Beltsville, 1950. 18 p. 1.965 F2R29

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Second annual report of research accomplishments in farm machinery and equipment by public research agencies of the State agricultural experiment stations and United States Department of Agriculture. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Agr. Engin. Inform. Ser. 102, 52 p. Dec. 19, 1950. 1.9 R5311

U. S. REGIONAL SALINITY LABORATORY, RIVERSIDE, CALIF. List of publications. Riverside, Calif., 1950? 10 p. 1.965 A2L693

VIETS, F. G., JR., and CRAWFORD, C. L. Field studies on zinc deficiency in beans in central Washington. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Div. Soil Mangt. & Irrig. Res. Rpt. 208, 4 p. Mar. 30, 1951. 1.965 S4R312

VIETS, F. G., JR., CRAWFORD, C. L., and NELSON, C. E. Field studies on zinc deficiency in corn in the Columbia Basin area. U. S. Bur. Plant Indus., Soils, & Agr. Engin. Div. Soil Mangt. & Irrig. Res. Rpt. 207, 10 p. Mar. 30, 1951. 1.965 S4R312

#### PRODUCTION AND MARKETING ADMINISTRATION

THOMPSON, J. I. Dairy industry under defense mobilization. Washington, U. S. Prod. & Mktg. Admin., 1951. 11 p. 1.956 A2T37

Talk at the Annual Convention of the New England Milk Dealers, Boston, Mar. 28, 1951.

U. S. PRODUCTION AND MARKETING ADMIN. Cattle and calves: monthly average price per 100 pounds, Kansas City, 1950. Washington, 1951. 2 p. 1.9422 L8C29Ka

Similar reports from other markets.

U. S. PRODUCTION AND MARKETING ADMIN. Cattle and calves: weekly average price per 100 pounds, North Portland, 1949. Washington, 1951. 2 p. 1.9422 L8C29Npw

Similar reports from other markets.

U. S. PRODUCTION AND MARKETING ADMIN. Cotton linters: estimated production and value, by types of cut and by grades, season 1949/50. Washington, 1950. 1 p. 1.956 C82C8224

U. S. PRODUCTION AND MARKETING ADMIN. Cured pork cuts and lard: monthly average wholesale price per 100 pounds, Chicago, 1950. Washington, 1951. 1 p. 1.9422 M8C92Ch

U. S. PRODUCTION AND MARKETING ADMIN. Deterioration of Long Island potatoes in marketing channels. Washington, 1950. 16 p. 1.956 F94D48

New York (Cornell) Agricultural Experiment Station cooperating.



- U. S. PRODUCTION AND MARKETING ADMIN.  
Domestic mohair: monthly average prices on the open market at Boston, 1950. Washington, 1951. 1 p. 1.956 L75D715
- U. S. PRODUCTION AND MARKETING ADMIN.  
Domestic wool: monthly average prices on the open market at Boston, 1950. Washington, 1951. 1 p. 1.9422 L8D71Bg
- U. S. PRODUCTION AND MARKETING ADMIN.  
Dressed meats—beef—monthly average wholesale price per 100 pounds, Chicago, 1950. Washington, 1951. 2 p. 1.9422 M8W52Bc
- U. S. PRODUCTION AND MARKETING ADMIN.  
Dressed meats—lamb and mutton—monthly average wholesale price per 100 pounds, Chicago, 1950. Washington, 1951. 1 p. 1.9422 M8W52Lc
- U. S. PRODUCTION AND MARKETING ADMIN.  
Dressed meats—pork cuts—monthly average wholesale price per 100 pounds, Chicago, 1950. Washington, 1951. 1 p. 1.9422 M8W52Pc
- U. S. PRODUCTION AND MARKETING ADMIN.  
Feed and livestock production. Washington, 1951. 4 p. 1.956 A2F322
- U. S. PRODUCTION AND MARKETING ADMIN.  
Fiber and spinning test results for some cotton varieties grown by selected cotton improvement groups, crop of 1950. Washington, 1950. 7 p. 1.9422 C8R3  
Also supplement No. 1, issued October 1950; No. 2, issued November 1950.
- U. S. PRODUCTION AND MARKETING ADMIN.  
Grades, requirements, and regulations of the Secretary of Agriculture for carrying out the provisions of the Export Apple and Pear Act. U. S. Prod. & Mktg. Admin. S. R. A.-P. M. A. 143, rev., 7 p. Jan. 1950. 1 M34S
- U. S. PRODUCTION AND MARKETING ADMIN.  
Hogs: monthly average price per 100 pounds, Sioux City, 1950. Washington, 1951. 1 p. 1.9422 L8H67Si  
Similar reports from other markets.
- U. S. PRODUCTION AND MARKETING ADMIN.  
Important facts concerning materials and facilities for cotton production in 1951; fertilizer, insecticides, farm machinery, planting seed, labor. Washington, 1950? 18 p. 1.956 A2Im73
- U. S. PRODUCTION AND MARKETING ADMIN.  
Legume and grass seed: supply and distribution, 1951-52. Washington, 1951. 1 p. 1.956 G76L52
- U. S. PRODUCTION AND MARKETING ADMIN.  
Proposed grades for Pennsylvania seedleaf tobacco (U. S. type 41). Washington, 1950. 11 p. 1.956 T55P944
- U. S. PRODUCTION AND MARKETING ADMIN.  
Regulations for the enforcement of the Federal Insecticide, Fungicide, and Rodenticide Act. U. S. Prod. & Mktg. Admin. Serv. & Regulat. Announc. 166, amended, 17 p. Mar. 1951. 1 M34S
- U. S. PRODUCTION AND MARKETING ADMIN.  
Rice: acreage, yield, and production, United States. Washington, 1950. 2 p. 1.956 G76R364
- U. S. PRODUCTION AND MARKETING ADMIN.  
Sheep and lambs: monthly average price per 100 pounds, Omaha, 1950. Washington, 1951. 1 p. 1.9422 L8Sh3Om  
Similar reports from other markets.
- U. S. PRODUCTION AND MARKETING ADMIN.  
Summary of State and regional cold storage holdings for 1950. Washington, 1951. 42 p. 1.956 M34Su62
- U. S. PRODUCTION AND MARKETING ADMIN.  
Tentative standard grades for Pennsylvania seedleaf tobacco (U. S. type 41). Washington, 1951. 11 p. 1.9 Ec792Tod
- U. S. PRODUCTION AND MARKETING ADMIN.  
Tentative standard grades for sorted and unsorted broadleaf tobacco of type 51. Rev. Washington, 1950. 14 p. 1.956 T55T263
- U. S. PRODUCTION AND MARKETING ADMIN.  
Total receipts of dressed poultry at Chicago, Illinois for year 1950. Chicago, 1951. 2 p. 1.9422 Po8T64  
Also report of receipts at New York and Los Angeles.
- U. S. PRODUCTION AND MARKETING ADMIN.  
Total receipts of eggs at Chicago, Illinois for year 1950. Chicago, 1951? 2 p. 1.9422 Po8T642  
Also report of receipts at New York.
- U. S. PRODUCTION AND MARKETING ADMIN.  
Total receipts of live poultry at Chicago, Illinois for year 1950. Chicago, 1951? 2 p. 1.956 A2T64
- U. S. PRODUCTION AND MARKETING ADMIN.  
Total receipts of milk at New York for year 1950. New York, 1951. 2 p. 1.956 A2T649  
Also reports of receipts of butter, cheese, and cream.
- U. S. PRODUCTION AND MARKETING ADMIN.  
U. S. grain exports, July 1950-January 1951. Washington, 1951. 1 p. 1.956 G76Un36
- U. S. PRODUCTION AND MARKETING ADMIN.  
United States standards for grades of canned cranberry sauce. Washington, 1951. 7 p. 1.956 A2Un3353
- U. S. PRODUCTION AND MARKETING ADMIN.  
United States standards for grades of extracted honey. Washington, 1951. 11 p. 1.9422 Su8H75
- U. S. PRODUCTION AND MARKETING ADMIN.  
United States standards for grades of frozen concentrated blended grapefruit juice and orange juice; notice of proposed rule making. Washington, 1950. 21 p. 1.956 A2Un3352
- U. S. PRODUCTION AND MARKETING ADMIN.  
Yield per planted acres [corn, oats, barley] with 5-year averages [1946-50]. Washington, 1951. 3 p. 1.956 G76Y5

## RURAL ELECTRIFICATION ADMINISTRATION

- U. S. RURAL ELECTRIFICATION ADMIN. Ex-  
plosives for digging pole holes. Washington? 1950. 7 p. 1.933 Ex7
- U. S. RURAL ELECTRIFICATION ADMIN.  
Number of consumers, total and farm, served by REA borrowers, by States, 1946-1950. Washington, 1951. 1 p. 1.933 T64
- U. S. RURAL ELECTRIFICATION ADMIN.  
Power plus; Georgia co-op gets results with power use and member education. Washington, 1951. 7 p. 1 R88Po

## SECRETARY, OFFICE OF

- BRANNAN, C. F. Production to meet the test. Washington, U. S. D. A., Off. Sec., 1951. 11 p. 1.91 A2B73  
Talk at conference of Agricultural Mobilization Committee in Des Moines, Apr. 7, 1951.
- HUTCHINSON, K. T. REA cooperative achievement—today and tomorrow. Washington, U. S. D. A., Off. Sec., 1951. 9 p. 1.91 A2H97  
Talk before Wisconsin Rural Electric Cooperative Association, Madison, Mar. 28, 1951.
- MCCORMICK, C. J. An excellent living and something more. Washington, U. S. D. A., Off. Sec., 1951. 10 p. 1.91 A2M132  
Talk at the Ninth Annual Rural Life Conference of the Rural Life Association, Wilmington, Ohio, Mar. 30, 1951.
- MINOR, W. A. Grass and progress. Washington, U. S. D. A., Off. Sec., 1951. 9 p. 1.91 A2M66  
Talk at the Valley States Conference, Knoxville, Apr. 11, 1951.

## SOIL CONSERVATION SERVICE

- BENNETT, H. H. The rewards of soil conservation. Washington, U. S. Soil Conserv. Serv., 1951. 4 p. 1.96 Ad62  
Summary of remarks at annual award presentation, 29th National Convention Izaak Walton League of America, Inc., Cincinnati, Apr. 6, 1951.
- BENNETT, H. H. Soil conservation in relation to nutrition. Rev. Washington, U. S. Soil Conserv. Serv., 1951. 9 p. 1.96 Ad62  
Address at the Pan American Homeopathic Medical Congress, Washington, D. C., Oct. 3, 1947.
- NORTON, E. A. Watershed protection and increased production through soil and water conservation. Washington, U. S. Soil Conserv. Serv., 1951. 9 p. 1.96 Su7N  
Address at annual meeting of the Mississippi Valley Association, Feb. 13, 1951, St. Louis.
- SCHIFF, L. Hydrology of surface supplies to runoff. U. S. Soil Conserv. Serv. SCS-TP-90, 25 p. Ref. Feb. 1951. 1.96 Ad6Tp
- TABOR, P. Soil conserving plants for various soil fertility levels in the Southeastern States. Washington? U. S. Soil Conserv. Serv., 1950. 5 p. 1.9602 T11  
Paper presented before the Soil Conservation Section, American Society of Agronomy, Cincinnati, Nov. 1, 1950.
- UHLAND, R. E., and O'NEAL, A. M. Soil permeability determinations for use in soil and water conservation. U. S. Soil Conserv. Serv. SCS-TP-101, 36 p. Jan. 1951. 1.96 Ad6Tp



U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Geary County, Kansas, by R. W. Eikleberry, C. L. Fly, and H. E. Myers. Manhattan, 1951. 25 p. 1.96 L22Ph

Kansas Agricultural Experiment Station cooperating.

U. S. SOIL CONSERVATION SERV. Summary, group drainage work in Soil Conservation Districts with SCS assistance, calendar year 1950, and to date totals. Washington, 1951. 11 p. 1.96 Dp2Sug

U. S. SOIL CONSERVATION SERV. NORTHERN GREAT PLAINS REGION. Corn planted on the contour. Rev. U. S. Soil Conserv. Serv. Conserv. Educ. Aid. Ser. 1(5), 1 p. Dec. 1950. 1.9607 C768

U. S. SOIL CONSERVATION SERV. NORTHERN GREAT PLAINS REGION. Gullies. U. S. Soil Conserv. Serv. Conserv. Educ. Aid. Ser. 1(3), 1 p. Dec. 1950. 1.9607 C768

SOLICITOR, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF OF THE SOLICITOR. Background and summary of legislation relating to agricultural adjustment, conservation, crop insurance, price control, and labor programs. Washington, 1951? 37 p. 1.918 B12



# STATE AGRICULTURAL EXPERIMENT STATION PUBLICATIONS

Includes State Agricultural Experiment Station publications received in the library during the preceding month.

Publications issued by the State Agricultural Experiment Stations are not available from the U. S. Department of Agriculture but are often available from the publishing experiment station.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

## Alaska Agricultural Experiment Station, College

HODGSON, H. J., and others. Recommended varieties of field crops for Alaska, 1951. Alaska. Agr. Expt. Sta. C. 14,8 p. Feb. 1951. 100 AL122E

S. C. Litzemberger, B. M. Bensin, and J. E. Osguthorpe, joint authors.

## Arkansas Agricultural Experiment Station, Fayetteville

SOUTHERN, J. H. Farm land ownership in the Southwest. Ark. Agr. Expt. Sta. B. 502,47 p. Dec. 1950. 100 Ar42

## California Agricultural Experiment Station, Berkeley

CALIFORNIA agriculture 5(4),16 p. Apr. 1951. 100 C12Cag

## Colorado Agricultural Experiment Station, Fort Collins

KUNKEL, R., GARDNER, R., and BINKLEY, A. M. Fertilization of Red McClure potatoes in the San Luis Valley of Colorado. Colo. Agr. Expt. Sta. Tech. B. 43,30 p. Jan. 1951. 100 C71S

## Connecticut (State) Agricultural Experiment Station, New Haven

TURNER, N., SAUNDERS, D. H., and WILLAMAN, J. J. The effect of some polyethyleneglycol derivatives on the toxicity of nicotine to insects. Conn. (State) Agr. Expt. Sta. B. 543,35 p. Ref. Jan. 1951. 100 C76St

## Connecticut (Storrs) Agricultural Experiment Station, Storrs

JUNGHER, E. L., and LUGINBUHL, R. E. Report on poultry respiratory disease control program for 1950 and suggestions for 1951. Conn. (Storrs) Agr. Expt. Sta. INF-22,6 p. Jan. 1951. 100 C76I

## Georgia Agricultural Experiment Station, Experiment

CECIL, S. R., and WOODROFF, J. G. Butylated hydroxyanisole as an antioxidant for salted peanuts, salted pecans, and peanut butter. Ga. Agr. Expt. Sta. B. 265,14 p. Jan. 1951. 100 G29S

LEBEDEFF, G. A., and others. Georgia corn performance tests, 1950. Ga. Agr. Expt. Sta. C. 157,15 p. Feb. 1951. 100 G29S

W. H. Freeman, S. B. Parkman, O. L. Brooks and E. B. Browne, joint authors.

Georgia Coastal Plain Experiment Station and U. S. Bureau of Plant Industry, Soils, and Agricultural Engineering cooperating.

HAWKINS, B. S., and others. Cotton variety tests, 1950 with five-year averages 1946-50. Ga. Agr. Expt. Sta. C. 168,11 p. Feb. 1951. 100 G29S

T. E. Steele, W. W. Ballard, and S. V. Stacy, joint authors.

## Georgia Coastal Plain Experiment Station, Tifton

GEORGIA. COASTAL PLAIN EXPERIMENT STATION. 1951 cotton insect control recommendations for Georgia. Ga. Coastal Plain Expt. Sta. Mimeog. Paper 2, rev., 4 p. Jan. 1951. 100 G292M

GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Home garden for the Coastal Plain of Georgia. Ga. Coastal Plain Expt. Sta. Mimeog. Paper 12, rev., 2 p. Dec. 1950. 100 G292M

GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Insecticides for flue-cured tobacco. Ga. Coastal Plain Expt. Sta. Mimeog. Paper 71, rev., 2 p. Jan. 1951. 100 G292M

GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Truck crops for the Coastal Plain of Georgia. Ga. Coastal Plain Expt. Sta. Mimeog. Paper 72,3 p. Jan. 1951. 100 G292M

WOODARD, O., and BRIGHTWELL, W. T. Planting and care of muscadine grapes. Ga. Coastal Plain Expt. Sta. Mimeog. Paper 75,3 p. Mar. 1951. 100 G292M

## Illinois Agricultural Experiment Station, Urbana

HANNAH, H. W. Agricultural liens in Illinois. Ill. Agr. Expt. Sta. B. 545:139-168. Feb. 1951. 100 IL6S

## Indiana Agricultural Experiment Station, Lafayette

INDIANA. AGRICULTURAL EXPERIMENT STATION. Progress of agricultural research in Indiana; sixty-third annual report, 1949/50. Lafayette, 1950? 150 p. 100 In2P

## Iowa Agricultural Experiment Station, Ames

ROHWER, R. A. Family factors in tenure experience: Hamilton County, Iowa, 1946. Iowa. Agr. Expt. Sta. Res. B. 375:818-872. July 1950. 100 Io9

EPRIGHT, E. S. Food habits and preferences; a study of Iowa people of two age groups [youth and in middle age]. Iowa. Agr. Expt. Sta. Res. B. 376:874-976. Dec. 1950. 100 Io9

BEAL, G. M., FESSLER, D. R., and WAKELEY, R. E. Agricultural cooperatives in Iowa: farmers' opinions and community relations. Iowa. Agr. Expt. Sta. Res. B. 379:178-240. Feb. 1951. 100 Io9

## Kansas Agricultural Experiment Station, Manhattan

KANSAS. AGRICULTURAL EXPERIMENT STATION. Abstracts of recent publications. Kans. Agr. Expt. Sta. Abs. 8,2 p. Feb. 1951. 100 K134

CLAPP, A. L., and TATUM, L. A. Kansas corn tests, 1950. Kans. Agr. Expt. Sta. B. 347,45 p. Feb. 1951. 100 K13S

MYERS, H. E., and SMITH, F. W. Fertilizer recommendations for Kansas. Kans. Agr. Expt. Sta. C. 264,24 p. Sept. 1950. 100 K13S

SCOVILLE, O. J., and HODGES, J. A. Practices and costs on wheat farms in western Kansas, 1947. Kans. Agr. Expt. Sta. C. 268,27 p. Dec. 1950. 100 K13S

U. S. Bureau of Agricultural Economics cooperating. KANSAS. AGRICULTURAL EXPERIMENT STATION. Publication list. Kans. Agr. Expt. Sta. C. 269,4 p. Feb. 1951. 100 K13S

SHELLENBERGER, J. A., and others. Environment and Kansas wheat varieties. Kans. Agr. Expt. Sta. C. 270,19 p. Dec. 1950. 100 K13S

J. A. Johnson, H. H. Laude, and G. D. Miller, joint authors.



Kentucky Agricultural Experiment Station, Lexington

ROBERTS, J. B., and GRAYSON, G. Formula pricing of fluid milk. Ky. Agr. Expt. Sta. B. 558, 56 p. Nov. 1950. 100 K41

JEWETT, H. H. Control of green June beetle larvae *Cotinus nitida* (L.). Ky. Agr. Expt. Sta. B. 558, 8 p. Jan. 1951. 100 K41

INSKO, W. M., JR., LOWRY, S. J., and CALDWELL, L. M. The all-pullet flock vs. the hen flock. Ky. Agr. Expt. Sta. B. 560, 4 p. Feb. 1951. 100 K41

KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Commercial fertilizers in Kentucky, 1950, including a report on official fertilizer samples analyzed July-December, 1950. Ky. Agr. Expt. Sta. Regulat. B. 87, 43 p. Feb. 1951. 100 K41

KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Commercial feeds in Kentucky, 1950, including report on official feed samples analyzed October-December, 1950. Ky. Agr. Expt. Sta. Regulat. B. 88, 52 p. Feb. 1951. 100 K41

Louisiana Agricultural Experiment Station, University Station, Baton Rouge

STELLY, R., and BAKER, J. M. Seasonality in production and marketing practices of Louisiana egg producers. La. Agr. Expt. Sta. B. 447, 18 p. Aug. 1950. 100 L93

EDGERTON, C. W. Forty-two years of sugarcane disease research at the Louisiana Agricultural Experiment Station; a report of pathological and botanical investigations as they have affected the Louisiana sugar industry during the period 1908-1950. La. Agr. Expt. Sta. B. 448, 31 p. Ref. Oct. 1950. 100 L93

Maine Agricultural Experiment Station, Orono

BOUCHARD, R. J. A., and PERRY, A. L. The development of external defects in Maine potatoes at retail stores in Boston, Massachusetts, February and March, 1950. Maine. Agr. Expt. Sta. B. 486, 24 p. Nov. 1950. 100 M28S

U. S. Bureau of Agricultural Economics and U. S. Production and Marketing Administration cooperating.

BONDE, R., and MERRIAM, D. Potato spindle tuber control. Maine. Agr. Expt. Sta. B. 487, 15 p. Feb. 1951. 100 M28S

BONDE, R., PEIKERT, F. W., and RHOADS, R. B. Low gallonage high concentration sprayer for the control of potato diseases and insects. Maine. Agr. Expt. Sta. Mimeog. Rpt. 18, 6 p. Mar. 1951. 100 M28M

TOBEY, E. R. Commercial feeding stuffs, 1949-50. Maine. Agr. Expt. Sta. Off. Insp. 216, 38 p. July 1950. 100 M28S

MAINE. AGRICULTURAL EXPERIMENT STATION. Commercial fertilizers, 1950; Off. Insp. 217, by E. R. Tobey. Orono, 1950. 32 p. 100 M28S

Massachusetts Agricultural Experiment Station, Amherst

MASSACHUSETTS. SEED CONTROL SERV. Seed inspection. Mass. Agr. Expt. Sta. Control Ser. B. 147, 29 p. Nov. 1950. 100 M38H

Michigan Agricultural Experiment Station, East Lansing

WEIDEMANN, A. G., and MILLAR, C. E. Results from long-time field experiments on Hillsdale soil. Mich. Agr. Expt. Sta. Spec. B. 366, 53 p. Jan. 1951. 100 M58S

QUARTERLY bulletin 33:193-290. Feb. 1951. 100 M58S

Mississippi Agricultural Experiment Station, State College

HONER, C. J., and HERZER, F. H. A study of the composition of milk produced in different areas of Mississippi. Miss. Agr. Expt. Sta. B. 474, 24 p. Oct. 1950. 100 M69

DICK, J. B., and EWING, E. C., JR. Cotton variety tests in the Yazoo-Mississippi Delta, 1946-49. Miss. Agr. Expt. Sta. B. 475, 15 p. Dec. 1950. 100 M69

O'KELLY, J. F., and others. 1950 cotton variety tests in Hill sections of Mississippi. Miss. Agr. Expt. Sta. B. 477, 7 p. Jan. 1951. 100 M69

S. P. Crockett, L. Walton, and B. C. Hurt, Jr., joint authors.

LYLE, C., HAMNER, A. L., and MURPHREE, L. C. Cotton insect control recommendations for 1951. Miss. Agr. Expt. Sta. C. 158, 7 p. Jan. 1951. 100 M69

DICKINS, D., and others. Family food consumption in three types of farming areas of the South. I. An analysis of 1947 food data. South Coop. Ser. B. 7, 142 p. June 1950. 100 G29So

B. Gillaspie, A. M. Moser, J. Staab, W. Dean, E. Philpard, and R. L. Anderson, joint authors.

The Agricultural Experiment Stations of Mississippi, Arkansas, South Carolina, Tennessee, and Virginia, the U. S. Bureau of Human Nutrition and Home Economics, and the Institute of Statistics, North Carolina State College cooperating.

MISSISSIPPI. AGRICULTURAL EXPERIMENT STATION. 63rd annual report fiscal year ending June 30, 1950. State College? 1951? 83 p. 100 M69

Missouri Agricultural Experiment Station, Columbia

FUNK, E. M., FORWARD, J., and KEMPSTER, H. L. Effect of holding temperatures on hatchability of eggs. Mo. Agr. Expt. Sta. B. 539, 18 p. Ref. May 1950. 100 M693

HIBBARD, A. D., and HEMPHILL, D. D. Success with strawberries. Mo. Agr. Expt. Sta. B. 542, 30 p. Nov. 1950. 100 M693

LONGWELL, J. H., and others. Fertilizer inspection and analysis; fall, 1949. Mo. Agr. Expt. Sta. B. 543, 57 p. Nov. 1950. 100 M693

R. C. Prewitt, C. W. Gehrke, and E. W. Cowan, joint authors.

ZUBER, M. S., GROGAN, C. O., and ASLIN, W. E. 1950 yield trials with corn hybrids in Missouri. Mo. Agr. Expt. Sta. B. 544, 27 p. Dec. 1950. 100 M693

KAYS, J. M. The care of light horses. Mo. Agr. Expt. Sta. C. 353, 39 p. Dec. 1950. 100 M693

HELM, C. A. Weed control in corn through use of chemicals. Mo. Agr. Expt. Sta. C. 354, 7 p. Dec. 1950. 100 M693

HEMPHILL, D. D. New weed control practices in strawberries. Mo. Agr. Expt. Sta. C. 355, 4 p. Jan. 1951. 100 M693

Nebraska Agricultural Experiment Station, Lincoln

GOBLE, J. W., and FILLEY, H. C. Marketing poultry and eggs in Nebraska. Nebr. Agr. Expt. Sta. B. 398, 31 p. June 1950. 100 N27

HAMMOND, W. E. Survey of the present and potential industrial uses of straw, with special reference to Nebraska. Nebr. Agr. Expt. Sta. B. 401, 47 p. Ref. Dec. 1950. 100 N27

GOODDING, T. H. Hairy vetch for Nebraska. Nebr. Agr. Expt. Sta. C. 89, 7 p. Feb. 1951. 100 N27

WERNER, H. O., RYALL, A. L., and LUTZ, J. M. Effect of storage and transit conditions on the performance of Nebraska-grown Triumph seed potatoes shipped in carlots to Texas and Alabama. Nebr. Agr. Expt. Sta. Res. B. 164, 94 p. Feb. 1950. 100 N27

LINDSEY, Q. W. A procedure for the equitable assessment of Nebraska farm land. Nebr. Agr. Expt. Sta. Res. B. 400, 79 p. Dec. 1950. 100 N27

NEBRASKA. AGRICULTURAL EXPERIMENT STATION. 63rd annual report. Lincoln, 1950. 162 p. 100 N27



New Jersey Agricultural Experiment Station, New Brunswick

BABCOCK, M. J. Simplification of the "long method" for calculating the nutritional value of diets. N. J. Agr. Expt. Sta. B. 751,79 p. June 1950. 100 N46S

AHLGREN, G. H., WASHKO, W. W., and MCCUTCHEON, G. K. A comparison of methods for seeding brome grass. N. J. Agr. Expt. Sta. B. 755,7 p. Mar. 1951. 100 N46S

TAYLOR, J. C. Identification of the nonlayer. N. J. Agr. Expt. Sta. Hints Poultrymen 34(1),4 p. Apr. 1951. 100 N46S

New York (Cornell) Agricultural Experiment Station, Ithaca

FEDERER, W. T. General theory of prime-power lattice designs. IV. Analysis of  $p^4$  treatments in blocks of  $p$  plots with four or more replicates. N. Y. (Cornell) Agr. Expt. Sta. Mem. 299,29 p. Oct.1950. 100 N48C

NEW YORK (CORNELL) AGRICULTURAL EXPERIMENT STATION. Sixty-third annual report of the College of Agriculture at Cornell University and of the Cornell University Agricultural Experiment Station, 1950. Ithaca?1951. 192 p. 100 N48C

New York (State) Agricultural Experiment Station, Geneva

MUNN, M. T., and BUCHHOLZ, A. B. The quality of seeds on sale in New York in 1950. N. Y. (State) Agr. Expt. Sta. B. 746,80 p. Feb.1951. 100 N48

Oklahoma Agricultural Experiment Station, Stillwater

WOOD, W. S., and OATES, W. J. A general purpose farm sprayer. Okla. Agr. Expt. Sta. B. B-363, 14 p. Feb.1951. 100 Ok4

GODFREY, G. F., THAYER, R. H., and THOMPSON, R. B. Broiler growing can be profitable. Okla. Agr. Expt. Sta. B. B-365,6 p. Feb.1951. 100 Ok4

BROOKS, J. S., and PASS, H. Hybrid corn strains recommended for 1951, based on results of the Oklahoma corn performance tests, 1946-1950. Okla. Agr. Expt. Sta. Mimeog. C. M-210,3 p. Jan.1951. 100 Ok4M

STRUBLE, F. B., and MORRISON, L. Control of watermelon anthracnose ("pox"). Okla. Agr. Expt. Sta. Mimeog. C. M-211,2 p. Jan.1951. 100 Ok4M

WALTON, R. R., and ASHDOWN, D. Control of insects infesting commercial greens crops in Oklahoma. Okla. Agr. Expt. Sta. Mimeog. C. M-212,8 p. Feb.1951. 100 Ok4M

DOGGER, J. R., and FENTON, F. A. Cotton insect control tests, 1950. Okla. Agr. Expt. Sta. Mimeog. C. M-213,6 p. Feb.1951. 100 Ok4M

ELDER, W. C. Bermuda grass control. Okla. Agr. Expt. Sta. Mimeog. C. M-214,4 p. Feb.1951. 100 Ok4M

ELDER, W. C. Controlling Johnson grass in Oklahoma (a progress report). Okla. Agr. Expt. Sta. Mimeog. C. M-215,5 p. Feb.1951. 100 Ok4M

BRINKERHOFF, L. A. Cottonseed treatment for Oklahoma. Okla. Agr. Expt. Sta. Mimeog. C. M-216, 3 p. Mar.1951. 100 Ok4M

OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. Abstract of new publications and list of publications available. Okla. Agr. Expt. Sta. What's New Okla. Agr. 21,18 p. Jan.1951. 100 Ok4W

CURRENT farm economics, Oklahoma 24(1), 29 p. Feb.1951. 100 Ok4

FARM research flashes. Mar. 1951. 7 p. 100 Ok4F

Oregon Agricultural Experiment Station, Corvallis

ROSENSTIEL, R. G. Life history and control of the cotoneaster webworm [Cremona cotoneastri]. Oreg. Agr. Expt. Sta. C. Inform. 492,3 p. Mar.1951. 100 Or3C

HYER, E. A. Cost of raising market turkeys in western Oregon, 1949. Oreg. Agr. Expt. Sta. C. Inform. 493,6 p. Apr.1951. 100 Or3C

Pennsylvania Agricultural Experiment Station, State College

NOLAN, F. L., HONEY, R. R., and WASMUTH, G. Family housing on owner-operated farms in Pennsylvania. Pa. Agr. Expt. Sta. B. 534,39 p. Nov.1950. 100 P381

FLEMING, H. K. 1950 strawberry variety trials in Erie County, Pennsylvania. Pa. Agr. Expt. Sta. Prog. Rpt. 41,4 p. Feb.1951. 100 P381P

ODLAND, M. L., and NOLL, C. J. Vegetable variety trials, 1950. Pa. Agr. Expt. Sta. Prog. Rpt. 42, 12 p. Feb.1951. 100 P381P

NOLAN, F. L., and SPRAGUE, D. C. Adjustable walls for space study. Pa. Agr. Expt. Sta. Prog. Rpt. 43,4 p. Feb.1951. 100 P381P

Puerto Rico Agricultural Experiment Station, Rio Piedras

BONNET, J. A., and SULSONA, P. T. Soil studies in Lajas Valley. P. R. Agr. Expt. Sta. B. 86,64 p. Aug.1950. 100 P83

BONNET, J. A., and LUGO LOPEZ, M. A. Soil studies in the projected Coamo irrigation area. P. R. Agr. Expt. Sta. B. 88,59 p. Ref. Sept.1950. 100 P83

Rhode Island Agricultural Experiment Station, Kingston

RESEARCH 1:26-35. Winter 1950. 100 R34R

South Carolina Agricultural Experiment Station, Clemson

ALBERT, W. B. Chemical weed control in corn and cotton by pre-emergence and post-emergence applications of herbicides. S. C. Agr. Expt. Sta. C. 80, 16 p. Jan.1951. 100 So8

Tennessee Agricultural Experiment Station, Knoxville

LONG, O. H., and HAZLEWOOD, B. P. Fertilizer experiments with cotton. Tenn. Agr. Expt. Sta. B. 220,20 p. Mar.1951. 100 T25S

HEGGESTAD, H. E., and CLAYTON, E. E. Burley 1, a new black root rot resistant tobacco. Tenn. Agr. Expt. Sta. C. 106,4 p. Feb.1951. 100 T25S

Texas Agricultural Experiment Station, College Station

HUGHES, W. F., and MOTHERAL, J. R. Irrigated agriculture in Texas. Tex. Agr. Expt. Sta. Misc. P. 59,37 p. Sept.1950. 100 T31M

FUDGE, J. F. Distribution of fertilizer sales in Texas, January 1-June 30, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1272,2 p. Sept.15,1950. 100 T31P

ROSBERG, D. W. Control of pecan diseases in 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1330,4 p. Feb.21, 1951. 100 T31P

TIPPIT, O. J., JONES, J. H., and JOHNSTON, J. R. Summary of the 1950 grazing and feeding work at the Blackland Experiment Station. Tex. Agr. Expt. Sta. Prog. Rpt. 1333,3 p. Mar.5,1951. 100 T31P



SPERRY, O. E. Experimental control of poisonous range plants in Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1334,4 p. Mar.5,1951. 100 T31P

STIVER, E. N., and others. Effect of sulphur, nitrogen and phosphorus amendments on cotton production at the Blackland Station, 1950. Tex. Agr. Expt. Sta. Prog. Rpt. 1336,2 p. Mar.6,1951. 100 T31P

R. J. Hervey, H. E. Hampton, and J. R. Johnston, joint authors.

MILLER, H. F., and others. Mechanical harvesting of cotton in Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1337,15 p. Mar.8,1951. 100 T31P

H. P. Smith, D. L. Jones, J. R. Johnston, D. I. Dudley and E. B. Hudspeth, joint authors.

YOUNG, P. A. Chemical control of weeds in converting pasture land to tomato production in East Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1338,3 p. Mar.8, 1951. 100 T31P

SMITH, J. C., and others. Corn fertilizer studies near College Station, 1949-50. Tex. Agr. Expt. Sta. Prog. Rpt. 1339,5 p. Mar.8,1951. 100 T31P

J. S. Rogers, J. F. Fudge, and J. E. Roberts, joint authors.

FISHER, C. E., and MARION, P. T. Water conservation increases cotton yields. Tex. Agr. Expt. Sta. Prog. Rpt. 1340,3 p. Mar.11,1951. 100 T31P

REYNOLDS, E. B., FUDGE, J. F., and JONES, J. M. Supplying phosphorus to range cattle through the fertilization of range land. Tex. Agr. Expt. Sta. Prog. Rpt. 1341,7 p. Mar.12,1951. 100 T31P

MARTIN, D. F., and BILSING, S. W. Pecan nut casebearer [*Acrobasis caryae*] control during 1947-50. Tex. Agr. Expt. Sta. Prog. Rpt. 1342,6 p. Mar.14, 1951. 100 T31P

COOK, E. D., CRANE, L. E., and BATES, R. P. Crop variety tests near Kirbyville, 1949-50. Tex. Agr. Expt. Sta. Prog. Rpt. 1346,4 p. Mar.29,1951. 100 T31P

#### Utah Agricultural Experiment Station, Logan

KNOWLTON, G. F., and SORENSON, C. J. Insect control on seed alfalfa, 1951. Utah. Agr. Expt. Sta. M. S. 65,1 p. Mar.1951. 100 UtlM1

#### Vermont Agricultural Experiment Station, Burlington

MUSE, M. Seating housewives at their ironing. Vt. Agr. Expt. Sta. B. 559,68 p. Feb.1951. 100 U59

#### Virginia Agricultural Experiment Station, Blacksburg

PLAXICO, J. S. Turkey breeding, an economic survey. Va. Agr. Expt. Sta. B. 443,22 p. Dec.1950. 100 V81S

VIRGINIA. POLYTECHNIC INSTITUTE. AGRONOMY DEPT. Official Virginia varietal tests 1950; field crop recommendations for 1951. Va. Agr. Expt. Sta. B. 445,18 p. Feb.1951. 100 V81S

MATTHEWS, E. M., and others. Curing bright leaf tobacco with forced ventilation. Va. Agr. Expt. Sta. Tech. B. 116,13 p. Ref. Jan.1951. 100 V81S  
V. H. Baker, G. E. Barlow, Jr., and R. B. Davis, Jr., joint authors.

VIRGINIA. AGRICULTURAL EXPERIMENT STATION. Agricultural research; report for the year ending June 30, 1950. Blacksburg,1950. 112 p. 100 V81S

#### Washington Agricultural Experiment Station, Pullman

BERG, L. R., and BEARSE, G. E. Studies of the granulation of chicken laying mash. Wash. Agr. Expt. Sta. B. 522,20 p. Feb.1951. 100 W27E

TUCKER, H. Marketing hogs and sheep through the Spokane stockyards. Wash. Agr. Expt. Sta. Pop. B. 197,15 p. Feb.1950. 100 W27E

#### Wisconsin Agricultural Experiment Station, Madison

SCHAARS, M. A., and BRAY, R. W. Pricing veal calves. Wis. Agr. Expt. Sta. Res. B. 170,64 p. Nov. 1950. 100 W75



STATE AGRICULTURAL EXTENSION SERVICE  
PUBLICATIONS

Includes State Agricultural Extension Service publications received in the library during the preceding month.

Publications issued by the State Agricultural Extension Services are not available from the U. S. Department of Agriculture but are often available from the publishing extension service.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Arizona University, College of Agriculture, Agricultural Extension Service, Tucson

ARIZONA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Arizona dairy herd improvement program; annual summary, dairy herd improvement associations, October 1, 1949-September 30, 1950, by W. R. Van Sant. Tucson, 1950. 9 p. 275.29 Ar42Ad

Arkansas University, College of Agriculture, Agricultural Extension Service, Little Rock

ARKANSAS. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Arkansas farmers stand ready. Ark. Agr. Col. Ext. C. 470, 14 p. Dec. 1950. 275.29 Ar4

California University, College of Agriculture, Agricultural Extension Service, Berkeley

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Boysenberry production costs San Bernardino County, 1950, by W. Sullivan and G. Bowman. Berkeley, 1951? 8 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Butte County second annual poultry management study, 1950, by A. D. Reed and A. W. Mitchell. Berkeley? 1951? 6 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Does poultry pay? Report of ninth annual Alameda County poultry management study 1950, by A. D. Reed and S. Coates. Berkeley? 1951? 13 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Farm enterprise management studies in California in 1949 and some 1950 studies, surveys, and other reports, by A. Shultis, B. B. Burlingame, W. Sullivan, and A. D. Reed. Berkeley, 1950. 7 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Garlic, production and imports, shipments and prices, by R. C. Rock. Berkeley, 1950. 8 p. 275.2 C12Gar

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Lassen County poultry management study 1950, by A. D. Reed and P. W. Lamborn. Berkeley? 1951. 5 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Los Angeles County poultry meat study—Antelope Valley, 1950 Berkeley? 1951? 2 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1950 poultry management study San Diego County, by R. H. Adolph and A. D. Reed. Berkeley? 1951? 5 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Rabbit cost study for San Bernardino County, 1950, by W. Sullivan and L. M. Harwood. Berkeley, 1951? 6 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Red kidney bean cost and management study, San Joaquin County, 1949, by H. L. Miller, R. S. Baskett, and B. B. Burlingame. Berkeley? 1951? 12 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. San Luis Obispo poultry management study, 1950, by A. D. Reed and D. C. Ambrose. Berkeley? 1951? 4 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 2nd poultry management study Santa Clara County, 1950, by A. Shultis and W. R. Corrin. Berkeley? 1951. 7 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Third annual report Monterey and Santa Cruz Counties poultry management study, 1950, by A. Shultis. Berkeley? 1951? 10 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Third annual report, Sonoma County, irrigated pasture management study for the year 1950, by A. Shultis and W. C. Lusk. Berkeley, 1951. 7 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Third annual report Tulare County poultry management study for the year 1950, by B. B. Burlingame and W. F. Rooney. Berkeley? 1951. 6 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Twentieth annual San Bernardino County poultry management study 1950, by A. D. Reed and J. Hertel. Berkeley? 1951. 8 p. 275.29 C12En

Connecticut University, College of Agriculture, Agricultural Extension Service, Storrs

MINNUM, E. C. Controlling insects and diseases in the home garden. Conn. Agr. Col. Ext. Folder 49, 8 p. Feb. 1951. 275.29 C76Ex

Florida University, College of Agriculture, Agricultural Extension Service, Gainesville

GRANGER, J. A. Dooryard citrus plantings in Florida. Fla. Agr. Col. Ext. B. 140, rev., 20 p. Nov. 1950. 275.29 F66

FLORIDA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Final report of the 24th Florida National Egg-Laying Test, by A. W. O'Steen, N. R. Mehrhof, and J. S. Moore. Gainesville, 1950? 31 p. 275.29 F66F1

Hawaii University, Agricultural Extension Service, Honolulu

RADA, E. L. Some problems of marketing Hawaiian floricultural products on the mainland. Hawaii. U. Agr. Ext. Agr. Econ. Rpt. 4, 12 p. Mar. 1951. 275.29 H312Ae

RUST, I. Cooperative directors have to work, too! Hawaii. U. Agr. Ext. C. 293, 11 p. Dec. 1950. 275.29 H312Ac

RUST, I. Do you really know what a cooperative is? Hawaii. U. Agr. Ext. C. 295, 7 p. Jan. 1951. 275.29 H312Ac

ISHIDA, J., and ELLIOTT, R. Temperatures for shipping and storing. Hawaii. U. Agr. Ext. C. 296, 2 p. Jan. 1951. 275.29 H312Ac

RUST, I. What can a cooperative do for farmers? Hawaii. U. Agr. Ext. C. 297, 8 p. Jan. 1951. 275.29 H312Ac

RUST, I. A farmers' cooperative won't run itself; problems of management. Hawaii. U. Agr. Ext. C. 298, 7 p. Jan. 1951. 275.29 H312Ac

RUST, I. Cooperative members are only human; membership relations. Hawaii. U. Agr. Ext. C. 299, 5 p. Jan. 1951. 275.29 H312Ac



RUST, I. There's pleasure as well as profit in your cooperative annual meetings. Hawaii. U. Agr. Ext. C. 300,4 p. Jan.1951. 275.29 H312Ac

HAWAII. UNIVERSITY. AGRICULTURAL EXTENSION SERV. 1950 market statistics; Territorial receipts, Honolulu unloads, prices, and shipments of specified agricultural commodities. Hawaii. U. Agr. Ext. C. 303,57 p. Mar.1951. 275.29 H312Ac

GUILLOU, R. Friction in spray hoses, pipes, and fittings. Hawaii. U. Agr. Ext. C. 304,4 p. Feb.1951. 275.29 H312Ac

GUILLOU, R. Adjustment of soil fumigant injectors with engine-driven pumps. Hawaii. U. Agr. Ext. C. 305,2 p. Feb.1951. 275.29 H312Ac

Idaho University, College of Agriculture, Extension Service, Moscow

MERRILL, R., and others. The Idaho farm-flock laying house. Idaho. Agr. Col. Ext. C. 114,16 p. Feb.1951. 275.29 Id13C

C. E. Lampman, C. F. Petersen, and O. K. Brown, joint authors.

Kansas State College of Agriculture and Applied Science, Extension Service, Manhattan

MELCHERS, L. E. Bunt control in Kansas, a thirty-five-year coordinated program. Kans. State Col. Agr. & Appl. Sci. Dept. Bot. Contrib. 496,28 p. 1950? 275.2 K133Bu

Kentucky University, College of Agriculture and Home Economics, Extension Service, Lexington

GARDNER, J. S. Hotbeds and cold frames. Ky. Agr. Col. Ext. C. 276,rev.,12 p. Dec.1950. 275.29 K415

GARDNER, J. S. Potato growing. Ky. Agr. Col. Ext. C. 307,rev.,19 p. Jan.1951. 275.29 K415

GARDNER, J. S. Sweet potato growing. Ky. Agr. Col. Ext. C. 308,rev.,11 p. Jan.1951. 275.29 K415

OLDS, D., BUSH, L. J., and WILLIAMSON, G. E. Artificial insemination of dairy cattle in Kentucky. Ky. Agr. Col. Ext. C. 485,15 p. Sept.1950. 275.29 K415

HUNT, R. A. Burley tobacco project for 4-H Clubs. Ky. Agr. Col. Ext. C. 486,29 p. Mar.1951. 275.29 K415

LACY, E. Judging home economics products in 4-H Club work. Ky. Agr. Col. Ext. 4-H 222,rev.,16 p. Feb.1951. 275.29 K415Fh

Louisiana State University and Agricultural and Mechanical College, Division of Agricultural Extension, University Station, Baton Rouge

COBB, W. T. Control and use of Johnson grass. La. Agr. Col. Ext., Ext. P. 1067,12 p. Aug.1950. 275.29 L93Ep

COBB, W. T. Feeding cattle for market. La. Agr. Col. Ext., Ext. P. 1072,12 p. Sept.1950. 275.29 L93Ep

LOUISIANA. STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE. DIV. OF AGRICULTURAL EXTENSION. Adjust your farm program to the fifties. La. Agr. Col. Ext., Ext. P. 1078,17 p. Oct. 1950. 275.29 L93Ep

LOUISIANA. STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE. DIV. OF AGRICULTURAL EXTENSION. Louisiana farm and home situation for 1951. La. Agr. Col. Ext., Ext. P. 1082,12 p.-folder. Dec.1950. 275.29 L93Ep

LOUISIANA. STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE. DIV. OF AGRICULTURAL EXTENSION. Kill! cotton insects, 1951. La. Agr. Col. Ext., Ext. P. 1083,12 p.-folder. Dec.1950. 275.29 L93Ep

Nebraska University, College of Agriculture, Agricultural Extension Service, Lincoln

WOLFE, H. H., and FURRER, J. D. Crop varieties in Nebraska. Nebr. Agr. Col. Ext. E. C. 100, rev.,70 p. Feb.1951. 275.29 N272Ex

LYNESS, W. E., and GROSS, D. L. Soybean production in Nebraska. Nebr. Agr. Col. Ext. E. C.192, 2 p. 1951. 275.29 N272Ex

WELDON, M. D., and RINGLER, W. E. Anhydrous ammonia a good nitrogen fertilizer. Nebr. Agr. Col. Ext. E. C. 193,3 p. 1951. 275.29 N272Ex

WELDON, M. D., and RINGLER, W. E. Which nitrogen fertilizer shall I use? Nebr. Agr. Col. Ext. E.C. 194,3 p. 1951. 275.29 N272Ex

WELDON, M. D., and RINGLER, W. E. What is liquid fertilizer? Nebr. Agr. Col. Ext. E. C. 195,3 p. 1951. 275.29 N272Ex

BRINEGAR, M. J. Practical explanation of some terms in animal nutrition—vitamin B<sub>12</sub>, antibiotics, amino acids, urea. Nebr. Agr. Col. Ext. E. C. 252,rev., 11 p. Feb.1951. 275.29 N272Ex

CHASE, F. J., and FORD, R. G. Social security or old age and survivors insurance for farm workers. Nebr. Agr. Col. Ext. E. C. 886,4 p. 1951. 275.29 N272Ex

NEBRASKA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Recreation for rural youth. Nebr. Agr. Col. Ext. E. C. 2011,20 p. Feb.1951. 275.29 N272Ex

NEBRASKA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. You can carve! Nebr. Agr. Col. Ext. E. C. 2015,6 p. Feb. 1951. 275.29 N272Ex

BARAGAR, A. E., and DOWNS, P. A. Simple equipment for the pasteurization of milk. Nebr. Agr. Col. Ext. E. C. 9990,8 p. Mar.1951. 275.29 N272Ex

New Jersey State College of Agriculture and Mechanic Arts, Extension Service, Rutgers University, New Brunswick

ANDERSON, J. C., and others. Corn growing for the potato areas. N. J. Agr. Col. Ext. L. 48,8 p. Feb.1951. 275.29 N46L

J. C. Campbell, J. W. Carnecross, and B. B. Pepper, joint authors.

NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. Control of insects and diseases on bush fruits. N. J. Agr. Col. Ext. Spray Calendar 46,8 p. Mar.1951. 275.29 N46Sp

NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. Control of insects and diseases on strawberries. N. J. Agr. Col. Ext. Spray Calendar 47,4 p. Mar.1951. 275.29 N46Sp

NEW JERSEY STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 1951 spraying and dusting recommendations for potatoes. N. J. Agr. Col. Ext. Spray Calendar 48,4 p. Mar.1951. 275.29 N46Sp

New York State College of Agriculture and Home Economics, Extension Service, Cornell University, Ithaca

BUSHEY, D. J. The planting and care of shrubs and trees. N. Y. Agr. Col. Cornell Ext. B. 185,rev.,32 p. Mar.1951. 275.29 N48E

PRATT, A. J., LEIBY, R. W., and CHUPP, C. The vegetable garden. N. Y. Agr. Col. Cornell Ext. B. 696,rev.,64 p. Apr.1950. 275.29 N48E

NEW YORK STATE COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. 1951 hay and pasture seedings. N. Y. Agr. Col. Cornell Ext. B. 781,rev.,6 p. Jan.1951. 275.29 N48E

MILLER, J., and PERSONIUS, C. Good cooking with dry milk. N. Y. Agr. Col. Cornell Ext. B. 804,15 p. Feb.1951. 275.29 N48E



FOSS, E. W. The farm shop and its equipment. N. Y. Agr. Col. Cornell Ext. B. 807,16 p. Feb.1951. 275.29 N48E

WOOD, T. Home canning of meat and poultry. N. Y. Agr. Col. Cornell Ext. B. 810,16 p. Mar.1951. 275.29 N48E

HENING, J. C., and LEE, F. A. Candied fruits and fruit candy. N. Y. Agr. Col. Cornell Ext. B. 817,7 p. Mar.1951. 275.29 N48E

RAYMOND, C. B., and SWEET, R. D. Sweet corn. N. Y. Agr. Col. Cornell Ext. B. 819,16 p. Mar. 1951. 275.29 N48E

RAYMOND, C. B., FISHER, E. G., and MACDANIELS, L. H. Planning and planting the home garden. N. Y. Agr. Col. Cornell Ext. B. 820,8 p. Feb. 1951. 275.29 N48E

FERTIG, S. N. 1951 weed control in field crops. N. Y. Agr. Col. Cornell Ext. B. 821,3 p. Feb. 1951. 275.29 N48E

WORK, P., ELLE, G. O., and COOK, J. A. Vegetable breeders offer new varieties for 1951. N. Y. Agr. Col. Cornell Ext. B. 827,8 p. Feb.1951. 275.29 N48E

CLARK, R. C., JR., and SKELTON, W. E. The 4-H leader. N. Y. Agr. Col. Ext. Cornell 4-H Club. B. 94,11 p. Dec.1950. 275.29 N48Cn

North Carolina University, State College of Agriculture and Engineering, Extension Service, State College Station, Raleigh

RANDALL, G. O., GARRISS, H. R., and SMITH, C. F. Successful rose culture. N. C. Agr. Col. Ext. C. 200,rev.,24 p. Jan.1951. 275.29 N811

MCIVER, J. The underworld of fashion. N. C. Agr. Col. Ext. Misc. Pam. 131,5 p. Feb.1951. 275.29 N811M

Ohio State University, College of Agriculture, Agricultural Extension Service, Columbus

OHIO. STATE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Crop varieties and hybrids for 1951 plantings. Ohio. Agr. Col. Ext. B. 225,rev.,4 p. Jan.1950. 275.29 Oh32

SWEET, M. C. Raising chickens in Ohio. Ohio. Agr. Col. Ext. B. 317,8 p. Jan.1951. 275.29 Oh32

PARKS, T. H. and WEAVER, C. R. Spittlebug [*Philaenus leucophthalmus*] control in legumes. Ohio. Agr. Col. Ext. B. 318,8 p. Mar.1951. 275.29 Oh32

WEAVER, E. K., and WALTERS, M. An easy way to iron a shirt. Ohio. Agr. Col. Ext. B. 319,8 p. Feb. 1951. 275.29 Oh32

NEISWANDER, R. B. Investigations of nursery insects during 1950. Ohio. Agr. Col. Ext. Nursery Notes 20(3),8 p. Mar.1951. 275.29 Oh32N

OHIO. STATE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1951 farm business and family living prospects. Leaders' handbook. Columbus,1950? 77 p. 275.2 Oh32Ofb

Oklahoma Agricultural and Mechanical College, Extension Division, Stillwater

CHAFFIN, W. Hybrid corn and fertilizers for corn. Okla. Agr. Col. Ext. C. 411,rev.,8 p. Feb.1951. 275.29 Ok41C

WHITEHEAD, E. L. Small fruits for the home garden. Okla. Agr. Col. Ext. C. 432,8 p. n. d. 275.29 Ok41C

WHITEHEAD, E. L. An Oklahoma garden planning guide. Okla. Agr. Col. Ext. C. 487,3 p. n. d. 275.29 Ok41C

STILES, C. F. Cotton insect control. Okla. Agr. Col. Ext. C. 499,8 p. n. d. 275.29 Ok41C

FLEMING, J. D. Stripper harvesting of cotton. Okla. Agr. Col. Ext. C. 500,4 p. n. d. 275.29 Ok41C

STEVENS, L. Photography is fun; a 4-H Club manual. Okla. Agr. Col. Ext. C. 550,8 p. n. d. 275.29 Ok41C

CHAFFIN, W. Castor bean production. Okla. Agr. Col. Ext. C. 552,4 p. n. d. 275.29 Ok41C

CHAFFIN, W., and WOODWARD, R. O. The use of fertilizer in Oklahoma. Okla. Agr. Col. Ext. C. 553, 16 p. n. d. 275.29 Ok41C

Pennsylvania State College, Agricultural Extension Service, State College

PENNSYLVANIA. STATE COLLEGE. AGRICULTURAL EXTENSION SERV. Charm in the home. Pa. State Col. Agr. Ext. C. 374,16 p. Jan.1951. 275.29 P38C

PENNSYLVANIA. STATE COLLEGE. AGRICULTURAL EXTENSION SERV. Let's pack a lunch. Pa. State Col. Agr. Ext. C. 375,15 p. Jan.1951. 275.29 P38C

PENNSYLVANIA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Milk for everyone. Pa. State Col. Agr. Ext. L. 142,6 p.-folder. Jan.1951. 275.29 P38L

MUNUSAN, H., JR. Spittle bug [*Cercopidae*] control on alfalfa and clover. Pa. State Col. Agr. Ext. L. 144,4 p. Feb.1951. 275.29 P38L

PENNSYLVANIA. STATE COLLEGE. AGRICULTURAL EXTENSION SERV. Your breakfast wheel of fortune; better breakfasts better health. Pa. State Col. Agr. Ext. L. 145,4 p. Mar.1951. 275.29 P38L

South Carolina, Clemson Agricultural College, Extension Service, Clemson

GOODING, P. H., NESBIT, W. B., and THAXTON, J. E. Turkey production equipment. Clemson Agr. Col. S. C. Ext. C. 297,rev.,30 p. Feb.1951. 275.29 So8E

COCHRAN, J. H., and others. Peach pest control in South Carolina. Clemson Agr. Col. S. C. Ext. C. 360,16 p. Feb.1951. 275.29 So8E

R. J. Ferree, H. H. Foster, and W. C. Nettles, joint authors.

SOUTH CAROLINA. CLEMSON AGRICULTURAL COLLEGE. EXTENSION SERV. Summer spray schedules for peaches. Rev. Clemson Agr. Col. S. C. Ext. Inform. Card 72. Feb.1951. 275.29 So8I

Texas Agricultural and Mechanical College, Agricultural Extension Service, College Station

BURLESON, R. E., and LEIGHTON, R. E. Silage for the dairy herd. Tex. Agr. Col. Ext. B. 186,10 p. Jan.1951. 275.29 T312

Utah State Agricultural College, Extension Service, Logan

STEWART, G., and others. Recommendations for range reseeding in Utah. Utah. State Agr. Col. Ext. B. 212,12 p. Jan.1951. 275.29 Utl

L. A. Stoddart, H. J. Burbach, J. A. Libby, R. L. Wrightley, D. M. Gauflin and R. A. Roundy, joint authors.

UTAH. STATE AGRICULTURAL COLLEGE. EXTENSION SERV. Building a better Utah; 1948/50 biennial report. Utah. State Agr. Col. Ext. B. 225,19 p. 1950? 275.29 Utl

MILLER, E., and BROWN, E. F. Some facts about foods and nutrition. Utah. State Agr. Col. Ext. B. 226,31 p. n. d. 275.29 Utl

KNOWLTON, G. F., EDGECOMBE, S. W., and SORENSON, C. J. Official Utah fruit spray recommendations for 1951. Utah. State Agr. Col. Ext. B. 228,20 p. Mar.1951. 275.29 Utl

KNOWLTON, G. F. Protect bees during fruit pest control operations. Utah. State Agr. Col. Ext. M. S. 63,1 p. Mar.1951. 275.29 UtlMs



Washington State College, Extension Service, Pullman

ECKBLAD, I. From farm to freezer. Wash. State Col. Ext. B. 375, rev., 19 p. Feb. 1951. 275.29 W27P

BREAKEY, E. P., and BRANNON, D. Control of strawberry root weevils. Wash. State Col. Ext. C. 169, 4 p. Mar. 1951. 275.29 W27C

WICHERS, H. E. Homes for Washington farms. Wash. State Col. Ext. C. 171, 174-177, 179, 5 p. each. Mar. 1951. 275.29 W27C

WASHINGTON STATE COLLEGE EXTENSION SERV. Homes for Washington farms. Wash. State Col. Ext. C. 172, 173, 180, 181, 183, 184, 4 p. each. Mar. 1951. 275.29 W27C

WICHERS, H. E. Homes for Washington farms. Wash. State Col. Ext. C. 178, 7 p. Mar. 1951. 275.29 W27C

HOBSON, K. Keeping up on the farm outlook. Wash. State Col. Ext. C. 187, 6 p.-folder. Feb. 28, 1951. 275.29 W27C

HOBSON, K. Keeping up on the farm outlook. Wash. State Col. Ext. C. 188, 5 p.-folder. Mar. 29, 1951. 275.29 W27C

Wisconsin University, College of Agriculture, Agricultural Extension Service, Madison

ALBERT, A. R. Six long strides to better sandy soils. 1. Grow more legumes. Wis. Agr. Col. Ext. Spec. C., 2 p. Jan. 1951. 275.29 W75S

ALBERT, A. R. Six long strides to better sandy soils. 2. Lime the soil as needed. Wis. Agr. Col. Ext. Spec. C., 2 p. n.d. 275.29 W75S







## AUTHOR INDEX

	Item		Item		Item		Item		Item
Aaltonen V T	43946	Aleixandre V	43721	American Mu-	46144	Anzalaz F A	43113	Atkeson F W	45125
Abad Gómez H	46335	Aleixandre V	43722	seum of Natural		Apple J W	45923	Atkeson F W	47170
Abd el Hay	47959	Aleixandre V	43866	History		Appleyby D C	42644	Atkins C D	47663
Abe K	47393	Aleixandre V	43967	American Mu-	46250	Appleton L R	43954	Atkins E L Jr	46427
Abelson S M	45822	Aleksandrov V G	42554	seum of Natural		Appleyard P	46990	Atkinson F E	47043
Aberg E	42914	Alekseenko F M	45944	History		Applied Lifeline	48942	Atkinson H J	43824
Aberg E	42823	Alekseev N	47904	American Mu-	46293	Nutrition		Atkinson H J	43957
Aberg E	43590	Alexander A K S	45550	seum of Natural		Chicago		Atkinson L A	43717
Abeliter J K	43947	Alexandersson H	44884	History		Arango R	48893	Atkinson T E	42896
Abnenc E	46277	Ali M A	45021	American Society	43054	Arbuckle J	42916	Atlas Powder Co	46940
Abrahamsen	48734	Allbert H	46405	for Horticul-		Archambault	44348	Industrial	
M A		Alice F J	45057	tural Science		P M		Chemicals Dept	
Abrahamovich K K	44452	Alkonis J J	47094	American Society	47096	Archer R C	46576	Atrops E P	47651
Abrioux	49106	All Japan Cotton	47391	of Brewing		Arens E	47013	Attaya R B	42777
Abrosimov I I	48450	Spinners' Asso-		Chemists		Arens P L	43750	Attia M S	42567
Abul'khanov	45655	ciation		American Soci-	47042	Areses Vidal R	41951	Attia M S	42563
F Kh		Allard H A	42421	ety of Refrig-		Argentine Re-	48327	Attolini J	47796
Acederach M	42550	Allbach R	45945	erating		public		Atwood S S	42487
Archard E	46349	Allen E F	43592	Engineers		Control de		Aubert J	46528
Ackerman W	42768	Allen F W	47630	Amich Gali J	45487	Estado		Aubert S	41952
Ackert J E	45235	Allen G S	44371	Amico A	41950	Aries L	45354	Audley R S	47398
Acutt R C	45549	Allen J M	42150	Amos G L	42556	Aries R S	44653	Auerbach C	46261
Adair W	48324	Allen O N	42354	Amshoff G J H	42012	Aries R S	44708	Auerbach S I	46119
Adamović Z R	46172	Allen R C	43257	Amstein W C	43953	Aries R S	47373	Auge P	43260
Adams A J S	44453	Allen R L	46666	Amstein W G	43438	Arika H	49019	Aughanbaugh	44349
Adams R C	46814	Allen R R	47939	Amundstad O	47313	Aristeguieta L	43087	J E	
Adams S N	43919	Allen T C	42146	Amy A S	43548	Ariste	47429	Aul H B	43261
Addington R	45943	Allgeyer W	43258	Ananthakrishnan	46527	Ark P A	42342	Aureau M	44184
Ader F	43948	Allison J	48520	T N		Ark P A	42343	Ausemus E R	42291
Adjovi P	45122	Allmendinger D	42147	Anczykowski F	45237	Arkema P W B	43055	Ausland O	46262
Adofan A R	44233	Allu Morer A	48208	And C	47771	Arkhipov	44500	Austern H T	46992
Adolph R H	48533	Almeida J L	43178	Andersen A L	42341	Arkhipov M I	47397	Australia Meat	47797
Advani R D	48121	F de		Anderson A J	42557	Arman G	47222	Board	
Afanasenko S S	48122	Almeida J R de	47563	Anderson A J	42558	Armenise V	42422	Austria Bundes-	48329
Afzal M	42916	Almgren K	47631	Anderson B	44907	Armer A	46577	kanzleramt	
Afzal M	44106	Alp H H	48019	Anderson E E	44999	Armstrong V	48740	Avanzi E	42817
Agarkov V A	42228	Alpatov V V	46173	Anderson E G	42540	Arnason A P	46278	Avanzi E	46903
Agati G	43436	Alpe A	46652	Anderson E G	43555	Arnell S	42095	Avdeev V F	45947
Agento Cecilia C	44706	Alpe A	46662	Anderson G C	48737	Arneson G N	44605	Avery G S Jr	42564
Ahalt A M	48650	Alphand H	47395	Anderson H W	44955	Arnetisân G A	45948	Avidov Z	46395
Ahlfeld H	48123	Alston A H G	42094	Anderson I V	44229	Arnold B	45398	Axelrod B	47561
Ahlgren G H	42925	Altmann G	45946	Anderson J A	47722	Arnold H	46586	Axelsson J	44709
Ahrendes E R	47695	Altona R E	43554	Anderson J C	42815	Arnold C R	48215	Axelsson J	44710
Aiken G D	48326	Altona R E	44000	Anderson K	48451	Arnold F T Jr	46347	Axelsson J	45743
Aiton E W	48723	Altona R E	44001	Anderson R	45656	Arnold J	42979	Axworthy R	45488
Aizenshtat T S I	44860	Alun-Jones W S	45353	Anderson R D	45716	Arnold K	43920	Ayars J S	46737
Akamine E K	43552	Alvarez Acevedo	47095	Anderson R L	46941	Arnold R E	43921	Ayers C R	45309
Akamine E K	48173	J M		Anderson W E	46424	Arnold W	42730	Azarkh Z	47905
Akerman A	47083	Alvarez	44998	Andersson A	47372	Arnold W	42730	Azevedo T de	48943
Akesson N B	46735	González M		Andersson I	47772	Arnst A	44517	Azmy S	46336
Akesson N B	46736	Alvelid S	43829	Andersson-Kotto	42559	Arnswaldt	44372	Azouz M W	47958
Akhromeyko A I	42551	Alvira T	43867	I		H J von		Azouz M W	47959
Akisola J A	44326	Alvsaker E	42662	Andrade H	45179	Arocena E	44212	Baade G A	45727
Alanis Patiño E	44107	Alwar V S	44848	Andrade J L de	46950	Arroyo B C	43667	Baars J K	43752
Alban E K	43437	Amaral J B de S	46653	Andrade J L de	48188	Arroyo B C	43679	Baba K	47399
Albareda J M	43720	Amato F d'	42555	Andrés F	42229	Arruda I	47374	Babaev F K	45943
Albareda J M	43721	Ambrose D C	48536	Andrews A C	47251	Arters A	47973	Babcock C J	47252
Albareda J M	43866	Amelinckx F	42011	Andrews F S	43061	Artis J W	48626	Babcock D C	47773
Albareda J M	43867	Amer F M	43831	Andrews F W	42013	Arvy L	46174	Babcock M J	48944
Albareda J M	43868	American Die-	48941	Andrews S	48738	Arx J A von	42122	Babich I A	45950
Albareda J M	43869	tetic Associa-		Andrews W G	47940	Arx J A von	42140	Baccarani G	44908
Albaugh R	44883	tion		Andries A	44026	Arzení C B	42096	Bach R	44413
Albaum H G	42552	American Farm	47626	Andrić M	46425	Asamblea Nacio-	45551	Bachir S	45523
Alben A O	42553	Bur Federation		Andrus C F	43439	nal de Avicul-		Bacon O G	46466
Alben A O	43242	Fruit and Vege-		Andrus S R	44499	tores		Badgett C O	48157
Albert A R	43949	table Dept		Angelier C	46113	Asayama E	43259	Baelum J	45551
Albert A R	43950	American Feed	44707	Anglade P	46187	Ascoli A	45058	Baender P	47020
Albert W B	43553	Manufacturers		Anglade P	46188	Asen S	42560	Baggerud H	45059
Alberta Provin-	43951	Association		Angrand J	42148	Ashby W C	42561	Bahla (State)	49020
cial Advisory		Association		Anlasson G	46672	Ashdown D	45938	Secretaria da	
Fertilizer		Association		Aniskina Z N	43838	Ashton J	48894	Agricultura	
Committee		Nutrition		Anjou K	47686	Ashton J R	43440	Indústria e	
Alberta Wheat	47703	Council		Anibaldi S	47169	Ashton L S	43955	Comércio	
Pool		American Insti-	48735	Ansari M A A	47396	Ashworth U S	47254	Bahmanyar M	46120
Alberti	44018	tute of Coopera-		Ansel J O	48739	Askey M M Jr	46347	Bal L	45310
Albes	42926	tute of Coopera-	48736	Anthony M S	42014	Aslander A	43751	Baler H	45951
Albrecht W A	42783	tion		Antipovič D	43669	Aslander A	43956	Baler H	47400
Albrecht W A	44846	American Meat	47794	Antoniani C	47221	Aslin W E	42895		
Aldrich F D	42371	Institute		Antonsen H	48524	Astakhova A V	42902		
		Foundation		Antram C B	46426	Astorga C M	47941		
				Antykov A	47523	Attack F W	46991		



	Item		Item		Item		Item		Item
Balkov M I	45657	Barnes J W	46844	Beatty A V	42611	Benolst M	42819	Bickel E	42152
Ballev J W	45060	Barnes W C	42230	Beaudette F R	45190	Benolt C E	48022	Bickford C A	44402
Bailey S F	46529	Barnes W C	43444	Beaumont A	42151	Bensin B M	42739	Bickley W E	46190
Bailey W R	47401	Barnes W C	43445	Beaumont J de	46396	Benzie D	45684	Biderman B	48296
Baillard D	47774	Barnes W S	48742	Beaumont J de	46397	Bequaert J C	46263	Bielski W	45321
Bair R A	43262	Barqay M	45552	Beaumont J de	46398	Beran D L	48751	Bienfet V	45239
Baird R	48741	Barr C A	43266	Bebon A	48294	Berdel W	44766	Bieri H	44415
Bajez E	44763	Barrajon R A	45954	Bech P	48995	Berendes P	43708	Bieri H	45398
Baker C	45952	Barrajon R A	45955	Becher P	46809	Berendes P	43959	Bieri H	46586
Baker C E	43179	Barreiros H de A	47696	Becherer A	42017	Berezin S K	48456	Bieri H	48654
Baker C K	46951	Barrenbrügge	46578	Beck	43064	Berg C v d	43754	Biggam C M	46752
Baker C T G	46046	Barrington A C	48451	Beck E W	46429	Berg G L	45446	Biggar J T M	47404
Baker F S Jr	45000	Barro Rubier M	45924	Becker	48652	Berg K	49053	Biland P	44110
Baker G L	47632	Barron J R	42928	Becker H	47799	Berg L R	45447	Bilden C M	47256
Baker J	45397	Barrons K C	42566	Becker J	43449	Berg L R	45518	Billings R	41373
Baker J M	48079	Barrons K C	43557	Becker K	47160	Berg L S	41954	Billington T F	44910
Baker J O	43263	Barsel' A	47906	Beckerich A	48295	Berg P W	45827	Billington T F	45004
Baker M W	47600	Barth R	46429	Beckham J	48749	Berg S	44679	Bilsing S W	46432
Baker R E D	42123	Bartholomew W V	43831	Beckler F G L	44629	Berg S v d	45065	Bilsing S W	46465
Baker V H	46702	Bartholomew W V	43832	Beckman H J	45728	Bergal M	42820	Bing J	45779
Bakken T J	45953	Bartlett D E	45063	Beckman H J	47800	Berge R van den	47173	Binkley A M	44020
Balasubrahmanyan R	42488	Bartlett H H	41953	Beckwith A R	47098	Bergeiro J M	49107	Biraghi A	42231
Balasubrahmanyan R	42897	Bartlett L E	45624	Beckwith R S	43768	Berger F	44415	Biraghi A	42344
Balasubrahmanyan R	42898	Bartlett S	45001	Bedbrook C	43268	Berger F	46586	Biraghi A	42491
Baldassini C	48330	Bartlett S	47279	Bedi G S	46659	Berger K C	43960	Bird H R	45520
Baldini E	42565	Barton F L	48743	Bedouet J	47618	Berger K C	43961	Bird H R	45617
Baldrati I	43668	Barton K P	43446	Beebe C W	44659	Berghen C	42097	Birdsall B	48753
Baldwin H I	42391	Bartrum D	43267	Beebe C W	47921	van den Berglund N	46674	Birdseye C	47044
Baldwin J T Jr	42423	Baruchelli A	45002	Beecher Mrs F	42018	Bergmann M E	42356	Birdseye C	47633
Baldwin J T Jr	42424	Baryshnikov I A	45625	Beek C P M van	48274	Bergmann M E	42357	Birkel' M R	43848
Baldwin R R	49001	Basanta E A	45553	Beer F	44283	Bergold G H	46430	Birkel' M R	43849
Balf M P	47838	Basilewsky P	46179	Beers Z H	43960	Bergum A T	47315	Birkett N L	46433
Balfour F K	43441	Baskaya M	42583	Beesen K E	48118	Berjon J	46188	Bishop C J	42568
Balfour-Browne F	46175	Baskett R S	48535	Bégin P E	47223	Berka P	47892	Bishop J R	42641
Balls J	46133	Basse N	44108	Behr R	45793	Berkeley M	45320	Bishop L R	47100
Ball C E	44711	Basset J	44764	Behrens M E	45626	Berlie J	46738	Bishopp F C	45830
Ball M A	43442	Bassett E W	44521	Bekkhus J J	48455	Bermejo Zuazda A	46654	Bisio A	47469
Ball M A	48870	Basteleus R	43181	Belgisch-Nederlands-Interparlementaire Unie	48331	Bernard J	46122	Bisset I J W	42556
Ballard W R	43364	Bates R P	42793	Bellaev D K	45300	Bernard L	43090	Bissett I J W	42425
Ballard W W	42909	Batjer L P	42739	Bell E	42655	Bernard P	43182	Bissett O W	47565
Balls E K	43264	Batjer L P	43088	Bell E J	46155	Bernhard G	45398	Bissonnet A P	48332
Balmos D	42927	Batorffy W R	47403	Bell G D H	42490	Bernis F	45828	Bitter B	47946
Balsevicius E	43556	Batterson V C	47943	Bell H K	43140	Berre T	44254	Bitters W P	42358
Baltazard M	46120	Battistelli E	43044	Bellamy W D	44682	Befry J	48457	Bjelčić Z	42004
Balzer I	44676	Battle N	45717	Bellotti L	44606	Berry M	48752	Blachez P R	48576
Bandelier B	45238	Battles O V	45003	Bellue M K	43560	Berryhill F M	49004	Black K	47698
Bandurski R S	47561	Baudrillart P	47944	Belokon' I P	44314	Bertaux G	47581	Black W	42232
Bång F	44414	Bauland T H	47172	Beltran Monferrer J M	48896	Berthault P	43018	Blackburn B	43270
Bank of Nova Scotia	47402	Baum E L	48020	Bemis K P	47583	Berthault P	43244	Blackley S R	44242
Banninger M	46176	Bauman C G	48741	Benavides J	45957	Berthault P	43244	Blackman G E	43561
Banning M	46177	Baumgartner L	48945	Benavides J	47775	Berthault P	46181	Blackmon G H	43251
Baptiste W J	43032	Baur K	43558	Benbrook S C	45491	Berthault P	47099	Blackwelder E F	46675
Baqué Z	43180	Baur K	43958	Bendelow V M	42849	Berthault P	47528	Blackwell R	44583
Baragar A E	46699	Baur M	46862	Bender C B	44712	Bertram I	49021	Blaha J	47947
Barat A	47798	Baur R	47314	Bender E K	43450	Berzagli M N	42392	Blair D S	43141
Barat A	49140	Baush E R	48043	Bender G L	45826	Berzagli M N	43269	Blair D S	43142
Barbados Dept of Science and Agriculture	48130	Bavaria Statistisches Landesamt	48575	Bendler A J	47945	Berzagli M N	45829	Blake R P	44189
Barber H S	46178	Baxter E S	45001	Bene J	44607	Berzin I A M	47173	Blake S F	42019
Barber L A	47942	Bay C	45744	Benesch F	44765	Besednov M	46751	Blake W R	47405
Barbut	48651	Bayma C	44109	Benesch K	45149	Besemer E I	48653	Blakely R M	45448
Barceló J L	47097	Bazilevich N I	43753	Benet R T	43933	Bessonov K K	45958	Blakeslee A F	42569
Barceló Garcia de Paredes A	48452	Beach G	46121	Bengoia J M	48947	Bethge S	47021	Blanchard C A	47316
Bardia Bardia R	42149	Beal G M	48745	Benic R	44654	Bethune J L	48185	Jr	
Bardier M I	43443	Beal J M	42567	Benick G	46180	Betizeau E	44767	Blanchard J R	48655
Bardoulat M	45061	Beal V A	48946	Bening W	43017	Betremieux R	43713	Blanchard L	47832
Barham W S	42489	Beall A E	48746	Benjamin E W	48021	Bettini T M	44985	Blanchard M	43019
Baribeau B J	45640	Beall F C	48747	Bennet L G	48525	Beutler R	45959	Blanch F C	46919
Barker C A V	45062	Beament J W L	45819	Bennett A F	44552	Bevan L	45554	Blanco J L	42492
Barker F	43265	Beamer R H	46350	Bennett H G	48750	Bevard G E	48023	Blanco J L	46264
Barkoff E	42662	Bean R C	42016	Bennett H H	44185	Bevilacqua G	44909	Blaney H F	44111
Barlow G E Jr	48163	Bear E M	43089	Bennett H H	44186	Bevilacqua I	46431	Blasco Lopez-	43755
Barnes B	42518	Bear F E	43707	Bennett H H	44187	Bewley W F	43056	Rubio F	
Barnes C P	43947	Bear F E	43856	Bennett H H	44188	Bezman I I	47977	Blasco Lopez-	43817
Barnes C P	48453	Beard D	45489	Bennett H H	44188	Bezot M	44768	Rubio F	
Barnes H V	42150	Beardmore H F	46148	Bennett T S	42980	Bhonsle M G	45066	Blatný C	43669
		Bearse G E	45447	Benolst J	47697	Biavati F	48024	Blatz W	45960
		Beatríz M G	48748			Bibby P	42124	Blaxland J D	48025
		Beattie J H	43447					Bledsoe R W	43170
		Beattie W R	43448					Bleicher H von	43962



Item	Item	Item	Item	Item
Blin H 42930	Boodt M de 43790	Bratzler L J 47853	Brocklebank K 42572	Bryssine G 43726
Blincoe C R 45068	Booth C E 43453	Braude R 45001	Brockman E H 48029	Buchanan M A 44639
Blinn R C 45871	Booth F L 44624	Braun A J 42155	Brodell A P 46755	Buchholz A B 48115
Bliss C I 47606	Borchardt H 44113	Brauner L 42571	Brodie A 43563	Buchholz E 44351
Bliss D 48754	Bordas E 46337	Brauns A 44416	Brodie J A 44375	Buchler J P 48191
Bliss M 45805	Bordas J 43963	Bravo G C 48937	Brodovitch T M 44350	Buck G J 43273
Bliss M E 43082	Bordeleau R 43045	Bravo H H 42022	Brodskif B 43185	Buck G J 43274
Bliss M E 45617	Boren F W 47907	Bravo H H 42023	Brody S 45068	Buckley T A 43565
Bliss M E 47089	Borges P 47136	Bray R W 47895	Bröker W 45966	Budagovskij V I 43144
Blodgett L Q 48656	Borgmeier T 46164	Brazelton J S 49054	Brooke D 45555	Budd J L 42934
Blais A 44911	Borgmeier T 46399	Breaker E P 45831	Brooke D L 47693	Büdel A 45967
Blondelle R 46579	Borgström G 47687	Bredal-Bauer J 48257	Brookes A J 45182	Büdel A 45968
Bloom W W 42093	Bornebusch C H 43834	Breazeale J F 43725	Brooks D W 47416	Büdel A 45969
Blowers A J 48025	Borovoy V Y 44327	Breazeale E L 43725	Brooks E W 45794	Büdel A 45970
Blue W G 42783	Borovoy V Y 44328	Breaker E P 46185	Brooks J S 42822	Budisellch E T 47636
Blum C R 42632	Boström C E 47700	Bredow- 43033	Brooks L E 42962	Budwig J 47981
Blum J R 45961	Böttcher F K 45963	Stechow von 43033	Brooks O L 42858	Budzien J 42239
Blumer T N 47927	Bottini O 43756	Bredow-Stechow 43965	Brooks R M 43091	Buelens 42791
Boaga G 48577	Bottomley W 42769	Bregman A 48189	Brooks R M 47684	Buell T E 45399
Boatman J L 48657	Bouchard F 43020	Breidbach 43184	Brooks R O 44436	Buen A M de 46267
Bobrov N 46763	Bouchard R J A 47601	Breidmyer H F 45005	Brotherston J D 45069	Buesa A 42125
Bock M 44770	Bouchend'homme J C 45964	Breirem K 45745	Brouha L 48948	Buford W R 47658
Boddy H 42931	Bouchet R L 43562	Brejeux P 47688	Brousson 44522	Bullov S V 45675
Boddy H 44190	Boudes A 42234	Brendstrup S 46863	Brouwer T 47224	Bulst J M 48094
Bodlaender 41955	Bouillenne R 42427	Brendstrup S 47375	Brouwers J 45239	Bukharev F 43458
K B A 43723	Bouillon J 47634	Breneman W R 45538	Brown A W A 46509	Bulay-Watson D 47408
Bodman G B 43723	Boulaaba C 47701	Breneman W R 45538	Brown A W A 46516	Bullen J J 45355
Bodwell J H 46815	Bould C 43964	Brenner W G 46582	Brown C H 45281	Bullrich K 46186
Boero H M 44771	Boulet L J 44714	Bressler R G Jr 47301	Brown D A 43564	Bunger W B 47950
Boettiger E 46265	Bouquet A G B 47530	Bretz T W 42235	Brown D G 46124	Bunting A H 46698
Bogdanski C 42426	Bourdelle J 46754	Breuer M E 46206	Brown D P 46837	Bunting E S 47951
Boggs M M 47653	Bourdie M 44857	Breuning S 46216	Brown E 44917	Burback H J 43000
Bogomolefs A G 43670	Boureau E 41956	Brewbaker J L 42487	Brown E F 48967	Burch D W 48275
Bogoroditskij A V 45067	Bourgain M 46123	Brewer H Jr 48190	Brown F M 46436	Burcham L T 43920
Boguth W 44912	Bourgenot L 44403	Brewster J A 47908	Brown F M 46469	Burcham L T 43921
Bohl L 46562	Bouriquet G 42153	Brewster J M 48453	Brown G B 43456	Burd H A 47536
Bohm 44454	Bousard M 43454	Brian M V 46400	Brown H D 43457	Burdette W J 46268
Böhm F 47529	Bouthillet R J 48026	Brice G 43664	Brown H D 47568	Burdette W J 46269
Bohman F E 46182	Bovin A I 44284	Bridier M 42821	Brown H D 47605	Burdette W J 46290
Bohren B B 45492	Bowden W D 46435	Brier J H 45965	Brown H D 48998	Burg W B y d 44918
Bohrer C W 47069	Bowen C C 42494	Brigatti C 44916	Brown J C 47982	Burger D Jr 48192
Boiko A K 45962	Bower R P 47406	Briggs M J 48795	Brown J C 46756	Burger W W 47046
Boiko G F 46700	Bowes P C 47948	Brightwell W T 43241	Brown J G 42584	Burger Hzn D 43709
Bojczuk R 44772	Bowman D A 48658	Briles W E 45411	Brown J G 42770	Burgess J S Jr 47416
Bokhout B 47980	Bowman G 48527	Brill J 45767	Brown M E 42237	Burgess R W 46270
Bol' B K 44773	Bowser D C 44374	Brinckman W 47175	Brown M S 42496	Burgmer J 45557
Boland H A 47280	Boyd D A 43455	Brindley G W 43758	Brown O K 46831	Burk D 42573
Bologna L 43183	Boyd J C 47343	Brinegar M J 44715	Brown R T 43690	Burkhart L 43459
Bonadonna T 44694	Boyd J S 46810	Brink N 43919	Brown R W 47177	Burkhart R L 45240
Bonadonna T 44913	Boyer J 43271	Brinkerhoff L A 42236	Brown S M Jr 45281	Burkhead C E 47089
Bonadonna T 44914	Boyns B M 48385	Briscoe S 46845	Brown T T 45556	Burks G F 44329
Bonaventura G 42020	Brachetka J 47851	Brisebois D 46952	Brown W H 41994	Burker G V 45685
Bonaventura G 42021	Bradfield R 43724	Brison F R 47635	Browne E B 42858	Burleson R E 45006
Bonaventura G 42233	Bradley W B 46993	British Cotton 47482	Brownell Mrs 43272	Burlingame B B 48530
Bond W R 46816	Bradley W F 43973	Industry 47482	W D 42933	Burlingame B B 48535
Bondar G 44191	Brady M A 47577	Research As- 47482	Browning D R 42933	Burlington H 45517
Bondar G 46183	Bragoni F 46676	sociation 47482	Brownlee O H 47023	Burmester H 42825
Bonde R 42359	Brallov S F 45648	Shirley Institute 47482	Brücher H 42823	Burnam W 43245
Bonde R 46739	Bramao L 43757	British Cotton 47483	Brüel O 46583	Burnett N C 47949
Bondon J 46753	Branas J 42154	Industry Re- 47483	Brügel W 43966	Burnham C R 42497
Bondorff K A 49120	Brandão Filho 48216	search Asso- 47483	Brügemann 44716	Burns G H 44404
Bondurant S W 44112	Brande J 43857	ciation 47483	Bruhlin A 42751	Burns R H 45721
Bone H 44915	Brandow G E 48256	Shirley Institute 47483	Bruins H W 45454	Burr H K 47653
Bonetti S 42932	Brandt C L 42570	British Dairy 47176	Brunel A 42771	Burr M 45807
Bongiovanni G C 46388	Brandt J 48333	Farmers' 47176	Brunel-Capelle 42771	Burrell A B 46740
Bonifacio R A 42098	Brannaman B L 42597	Association 47176	G 42771	Burriel F 43759
Bonifacio P 43452	Brannan C F 47022	British Gulana 49022	Brunelli P 42824	Burriel F 43760
Bonnemaison L 46351	Brannan C F 47516	Dept of Agri- 49022	Bruni O 42238	Burriel F 43761
Bonner D M 46434	Brannan C F 48334	culture 49022	Bruni O 42270	Burriel F 43969
Bonner D M 42493	Brannan C F 48335	Brito-Babapulle 45832	Brunini J 45349	Burriel F 43967
Bonner D M 42778	Brannan C F 48336	L A P 45832	Brunner E 43186	Burris R H 42574
Bonner W D Jr 42552	Brannon D 46185	Brittain R 48174	Brunner S C 45833	Burroughs D 42382
Bonnet J A 42736	Brannov S 46580	Brittingham W H 42495	Bruwer P v d M 47737	Burström H 42428
Bonnet J A 43871	Brant A W 48027	Britton J W 45322	Bryan C E 47949	Burton B 46948
Bonnet J A 43872	Branton C 44955	Brizard 44774	Bryan C S 45070	Burton G W 42826
Bonomi P 47174	Branzanti E C 43143	Broadbent E E 48028	Bryan D E 46162	Burton P J 46530
Bonsma J C 45181	Braschi G 46581	Broadbent L 42360	Bryant H E C 45220	Burton R C 47376
Bonthrone A 47699	Brasseur R 47407	Broch R 44544	Bryant M P 44682	Burfsev ſŮ A 43046
Bönzli E 46586	Bratley C O 47045	Broch R 44553	Bryce D H 47776	Bush D L 44775
Boodt M de 43737	Bratton R W 44922	Brockelsby C F 47702	Bryce D L 47776	
		Brockett J E 48526		



Item	Item	Item	Item	Item
Bush L J 44967	Campbell D A 44192	Canada Market- 47627	Casal C R 43120	Charnat P 42249
Bush R 43145	Campbell D A 44193	ing Serv	Case L I 45484	Charpentier Y 47139
Bush R 43187	Campbell D A 44194	Market Infor-	Case M E 42099	Charrier G 42025
Bush R 46876	Campbell I J 49108	mation Sect	Cash G 48761	Charrin V 44234
Bushey D J 43275	Campbell J A 43969	Canadian Jersey 44920	Cashmore W H 46677	Chartres C B 47704
Busso G 44919	Campbell J C 42815	Cattle Club	Casini U 43189	Chase F J 48260
Butani D K 46492	Campbell J M 42784	Canadian Swine 45729	Casseres E H 43460	Chatel C 43976
Butterfield H M 43276	Campbell R 48949	Breeders' Association	Cassidy J 47730	Chatel R 45242
Buttrose A K 45183	Campbell T W 48175	Canalini G 44114	Castellani E 42126	Chatelain F 44376
Butts Mrs P 43277	Campbell W B 44630	Candioli P 43147	Castellani E 42246	Chattelier P A 49007
Buursma S 44776	Campbell W W 48217	Candioli P 44115	Castellanos Gon- 45123	Chater S W 48341
Buvat R 42429	Campi M D 42318	Candura G S 45835	Castello Godoy M 47952	Chatterjee A 45559
Bycroft R 48873	Camposano A 42233	Canham A E 43278	Caster C A 48259	Chaturvedi H S 48126
Bynov F A 43146	Camus A 42024	Canterbury 45714	Casterline F 48109	Chaussonniere P 45185
Bynum E K 46437	Canada Agricul- 47024	Chamber of Commerce	Castillo C M 48340	Chavez Orozco L 44117
Byrnes J F 47409	tural Prices	Canterbury 47236	Castle H 42100	Chavez Vland M 46725
	Support Board	Chamber of Commerce	Castro E R 46125	Cheek A 46955
	Canada Board of 48899	Cantor S M 48137	Castro O E 43114	Cheffell H 46995
	Grain Commis-	Capell J E 46698	Castro R de 47413	Cheffell H 46996
	sioners	Capinpin J M 42498	Catalina L 43115	Chelli N 47105
	Statistics Br	Caples T 44090	Catalina L 44255	Chelquist G 47228
	Canada Central 42792	Cappleman L J 45836	Cater J 44352	Chen P S 47910
	Experimental	Capuano L 46934	Cathcart W H 47602	Cheney D H 48342
	Farm Ottawa	Caputa J 42936	Cathie W 46698	Chep W S 43727
	Div of Field	Cardiff I D 47637	Cation D 42309	Cheremisimov 44118
	Husbandry	Cardonne P 43970	Catron D V 45463	G A
	Soils and Agri-	Cardwell I 43971	Cattaneo P 47953	Cheremisimov 44195
	cultural Engi-	Cardwell W W 43246	Cavayé M 45241	G A
	neering	Carel P 42157	Cavazza L 42431	Cherepanov A I 45838
	Canada Dept of 43141	Carena A 46757	Cavazza L 47102	Cherkasov V 44718
	Agriculture	Caribbean Com- 48124	Caverno R J 45012	Chernikov F S 44417
	Canada Dept of 43142	mission	Cavers J R 45449	Chernov N V 47840
	Agriculture	Central Secre- 47236	Cavia C E 47533	Cherry G 44119
	Canada Dept of 43368	tariat	Cavina R 48193	Cherrington J O 48902
	Agriculture	Carilli A 42346	Cayle T 42552	Chervenka F 43284
	Canada Dept of 44145	Carillon R 46584	Cayre H 48901	Chevalier A 42026
	Agriculture	Carliani P 48158	Cayrol R 46434	Chevalier A 42027
	Canada Dept of 44717	Carleton R M 43279	Cecil S R 47638	Chevalier A 42028
	Agriculture	Carlevaro 47909	Celidonio C 49057	Chevalier A 42029
	Canada Dept of 45583	Castella C H	Cena M 44779	Chevalier A 44330
	Agriculture	Carlier L 43972	Cenoz H 42247	Cheyne O B M 43116
	Canada Dept of 45756	Carli J A de 46352	Centre National 47226	Chiappelli R 43569
	Agriculture	Carlson E W 47619	de Coordination	Chieffi A 42250
	Canada Dept of 46874	Carlson A E 43566	des Etudes et	Chieffi A 44695
	Agriculture	Carlson N K 43874	Recherches sur	Childs E C 43728
	Canada Dept of 48339	Carlson R F 43567	la Nutrition et	Childs E C 44120
	Agriculture	Carlson R F 43568	l'Alimentation	Childs W H 43977
	Canada Dept of 47225	Carlton M 42937	Cerny J 48660	Chilton S J P 43647
	Agriculture	Carmichael A 44116	Certaines E de 46585	China W E 46355
	Div of Bacteri-	Carmichael J 44777	Cerutti G 47103	China W E 46356
	ology and Dairy	Carnat G 46636	Cerutti G 47104	Chirvinski P N 42160
	Research	Carncross J W 42815	Cetti G 43461	Chitwood B G 42383
	Canada Experi- 43058	Carnevale J A 43280	Chaboussou F 46187	Chneour A 46438
	mental Farms	Carney C B 42899	Chaboussou F 46189	Chodkowski A 45071
	Serv	Carocci Buzi V 43672	Chaboussou F 46189	Choquette C 47822
	Central Experi- 48730	Carrolls V de 45730	Chaboussou F 46189	Chouard P 42576
	mental	Carpenter C A 45012	Chaboussou F 46189	Chow B F 48950
	Farm Ottawa	Carpenter I W 44455	Chaboussou F 46189	Christ E G 43190
	Div of Horti- 47318	Carpenter J 47318	Chaboussou F 46189	Christen E 46586
	culture	Carpenter J B 42242	Chaboussou F 46189	Christen H R 42432
	Canada Experi- 49121	Carpenter L E 45763	Chaboussou F 46189	Christensen J 43462
	mental Farms	Carpenter T R 42345	Chadwick C E 45937	Christiansen G S 42736
	Serv	Carra P 43281	Chadwick L C 43282	Christiansen O 46997
	Dominion Experi- 43188	Carrante A 42158	Chaffin W 42827	Chunn C C 48661
	mental	Carrera C J M 42243	Chaffin W 43021	Chupp C 43521
	Station l'As-	Carrillo Flores 48209	Chaffin W 43973	Chwalibóg J 44781
	somption	Carrington J 44921	Chalfin E F 43673	Chwojnowski A 45145
	Canada Experi- 49122	Carrillo H M 45558	Chalfuk E A 45350	Ciani G 47886
	mental Farms	Carson J F 48176	Chalmers C H 47227	Ciarrocca V 47803
	Serv	Carter C L 47567	Chamberlin F S 46354	Ciccarone A 42161
	Dominion Experi- 49123	Carter D G 46846	Chamberlin N R 45972	Ciccarone A 42251
	mental	Carter F 48760	Chan F L 46271	Ciccarone A 42252
	Station Sum-	Carter J C 42244	Chandler L 44362	Ciccarone A 42346
	merland	Carter J C 42245	Chandler L U 44780	Ciccarone A 46126
	Canada Experi- 49123	Carter R H 45047	Chang S W 43909	Ciesla E 45072
	mental Farms	Carter R H 47649	Chang W Y 42704	Ciferri F 43674
	Serv	Carter W L 48108	Chao H F 46531	Ciferri R 42126
	Dominion Experi- 46953	Carus-Wilson 48900	Chaplin P 43283	Ciferri R 43674
	mental	Carvalho J C M 46353	Chapman H D 43974	Cilli V 44782
	Station Sum-	Carvalho J C M 46355	Chapman H D 43975	Cincinnati Union 47852
	merland	Carvalho J C M 46356	Chapman H H 44437	Stock Yard Co 42433
	Canada Experi- 46954	Carver J S 45518	Charles Lathrop 48466	Cini M 42433
	mental Farms		Pack Forestry 45518	Foundation 42938
	Serv			Cizik B 41995
	Economics Div			
	Canada Market-			
	ing Serv			
	Economics Div			



Item	Item	Item	Item	Item
Cladsson G 44495	Collins T E 44545	Cornell D 47955	Crane J C 42689	Dangeard P 42587
Claissie P 45073	Collins W J 44922	Cornell Univer- 42499	Crane L E 42793	Danielsson B 43148
Clancy C W 46271	Collura A M 47954	Dept of Plant	Cranfill R 48766	Daniil'chenko V 46751
Clapp A L 42828	Colmenares M 44923	Breeding	Cravens W W 45454	Danneel M 45536
Clark A M 46401	R 48903	Corner E J H 42127	Craver B N 45243	Danneel R 45496
Clark C F 45074	Colombia Con- 48903	Cornish Breed- 45412	Crawloto R O 49010	Dantas J G 47496
Clark F E 43832	tralorfa Gene- 48903	ers Club of	Crawford A W 44523	Danyiz R 43297
Clark F E 44222	ral	California	Crawford C G 43294	Darby W J 48952
Clark H 48762	Dirección Na- 48762	Corns W G 42579	Crawford C L 42744	Darby W J 48953
Clark J F 47047	cional de Esta- 48762	Corns W G 42579	Creech J L 43295	Darlow H M 45808
Clark K C 48602	dística	Cornu C 43192	Crescini F 42500	Darpoux R 44210
Clark K K 45973	Colorado State 48450	Corneu C 43193	Crespi G 47413	Darpoux R 46952
Clark L M 48763	Board of Land 48763	Correa A P 44924	Crété P 42435	Darrah L B 48034
Clark N M 43285	Commissioners 48763	Correa de Jesus 48032	Cristofori E 48261	Darrow G M 42321
Clark P G 46127	Colwell S J 44572	D 48032	Crivellari D 42585	Dassat P 44930
Clark R B 43286	Comber J 43290	Corrias A 44925	Crivelli F 48345	Daubert B F 47977
Clark R C Jr 48730	Combs G F 45450	Corridoni L 48461	Crockett C K 47323	Daubresse P 46761
Clark R M 48662	Combs G F 45494	Corrie F E 44719	Crockett S P 42917	Daulis-Lawas 48980
Clarke E H 47178	Combs O B 42732	Corrin W R 48537	Croft A R 44509	D F 48980
Clarke G R 43978	Combs O B 43463	Corti R 42434	Crofts W J 47419	Daujat A 44036
Clarke J H 43191	Combs W B 47184	Corum C J 41969	Cromer D A N 44267	Daum K 48991
Clarke W T 47106	Combs W B 47255	Corvisier M 45365	Cronshey R H 47257	Dauphin J 47707
Clary M L 45243	Combs W B 47348	Corwin L A 45233	Crook S R 43573	Davey J T 45844
Clay H J 45311	Comisso G 47179	Cossette M 44720	Crooke M 45843	Davault L 45845
Clayton C B 48951	Commonwealth 48904	Cossette M 45186	Crow J F 45941	David C 46637
Clayton E E 42279	Economic Com- 48904	Cosslett V E 47805	Cruess W V 47639	David P A 43675
Cleary V P 44508	mittee 42123	Costa J J 42361	Crum H A 42101	Davidow B 45846
Clegg H 48761	Intelligence Br 42123	Costa J V B da 43875	Cruse E 48906	Davids R C 45077
Cleland R E 42030	Commonwealth 42123	Costa-Rodriguez 43979	Csáky T Z 45489	Davidsohn A 47956
Clemens 49141	Mycological In- 42123	L 43979	Cuba P 42900	Davidson H R 45750
Clément F P 42829	stitute 49142	Coste A 42580	Cuenca C L de 44886	Davidson J A 48035
Clément L 48343	Concelção A J da 49142	Costello E J 47052	Culler D 47568	Davidson O W 42560
Cleveland J 42163	Concorso 18344	Cottam G 42581	Culp H M 43060	Davidson W M 44759
Clinger C 48931	Internazionale 18344	Cottenie A H 42582	Culpin C 46587	Davies A G 42980
Clinton D D 42830	per Motocol- 42582	Cottingham J O 42128	Cummings G A 43982	Davies D M 46275
Clore W J 42726	tivatori 42582	Cottingham T J 48218	Cummings N 46956	Davies D V 45688
Cloud K M P 43287	Condé B 46129	Cotton Insect 45840	Cummings R W 42901	Davies J 45687
Cloudsley- 46128	Condé B 46532	Control Con- 45840	Cummings W 48767	Davies J 45688
Thompson J L 46128	Conference on 49023	ference 45841	Cummins G B 42253	Davies J 48951
Clout G A 45974	Electron Micro- 49023	Cotton Insect 45841	Cunha T J 45748	Davies W 42942
Cluskey J E 47079	scopy 49023	Control Con- 45841	Cuniciny A 44632	Davin J A 48219
Coates G R 48233	Congresso Agra- 48344	ference 45904	Curcio M 43981	Davin J A 45413
Coates M E 46920	rio Nazionale 48344	Cotton Insect 45904	Curl L F 46441	Davin J A 45414
Coates S 48529	Conklin G L 48463	Control Con- 45904	Curman J 46701	Davis C 44501
Cobb H L 43288	Connecticut 47603	ference 45904	Currier H B 42586	Davis C R 45497
Cobb L O 45075	Dept of Farms 47603	Couch J R 45452	Curtis A C 45640	Davis D 42254
Cobb W T 42939	and Markets 47603	Couch J R 45453	Curtis H 46847	Davis F E 47806
Cobb W T 45008	Marketing Div 47603	Couderc V 43980	Curtis J C 48437	Davis H A 47079
Coche P 45244	Conort J 44785	Coulson J 49137	Curtis J T 42581	Davis J C P M 43298
Cochran J H 45839	Conradi R R 41957	Coulter L L 43571	Cushing G 46865	Davis J F 43545
Cochrane R H 46655	Constantinescu 43034	Coulter S T 47255	Cushman H E 48033	Davis J F 43982
Cockayne E A 46439	A 43034	Coulter S T 47255	Cyprus Dept of 49024	Davis J F 46664
Cocke E 44286	Conway H M 47804	Count R D 43293	Agriculture 49024	Davis J H 48194
Cockrell N 48663	Cook A C 44979	Couranjou A 43765	Cyr F W 48768	Davis J M 45847
Coe M H 46563	Cook E D 42793	Courtney W D 42384	Czapliniski F 44786	Davis M B 43141
Coffey J S 45795	Cook H T 47552	Coutiaux P 46759	Czarnowski A 45076	Davis P B 46762
Coffey R E 49000	Cook J A 43549	Coutinho M 43059		Davis R B Jr 46702
Coffman C 46357	Cook R L 42578	Couturier J 43022		Davis R B Jr 48163
Coggs M C 48998	Cook R L 44175	Cow E W 44239		Davis R W 47911
Cohen G 46741	Cook W H 47931	Cowan J C 46948		Davis T 48872
Cohen M 42338	Cooley F C 43291	Cowden H A 48765		Davis T C 45078
Cohen S G 45639	Cooley J S 43292	Cowie-Whitney 45247		Davis W G 47777
Cohen W E 44678	Cooper M M 45746	J 45247		Davison H 47853
Coher E I 46272	Cooper R 42006	Cox B F 45495		Davison J R 47673
Coker Mrs J L 43289	Cooper T B 47180	Cox G A 43810		Davita F 43195
Cole C G 45768	Cooperative 42940	Cox J K 46564		Davydova L P 45350
Cole C G 45769	G L F Ex- 42940	Cox J W 47417		
Cole R K 45493	change 42940	Cox R F 45009		Dawson L E 48935
Cole V G 44783	Copeland D H 45270	Coyaud Y 47705		Dawson W M 44979
Coleman E 49055	Coppenet 43764	Coyner M S 48905		Day B E 42586
Coleman R E 42577	Coppinger G M 48175	Cradock T H 46760		Day D I 47377
Coleman W H 44121	Coppini R 45686	Crafa J A 47706		Day P L 48955
Coles R 45560	Copulsky W 44708	Crafts A S 42586		Dayton C E 48220
Collerette C H 47411	Copulsky W 47373	Craig H A 43572		Dean L A 44005
Collett W J 43047	Coquery P 48664	Crampton E W 49004		Dean W 46941
Collicutt S A 44631	Corash P 47319	Crandall W T 45010		Deane V L 43299
Collier A E 46440	Corbat A F 46864	Cran E 45975		Dearborn C H 42588
Collin J E 46273	Corcilius F 47569	Crane E E 45956		Deardorff M B 49000
Collins E R 42831	Cordonnier R 47133	Crane F M 45747		Deatherage F E 47982
Collins E V 46758	Cordy D R 45245	Crane J C 42583		Deatherage F E 47986
Collins R A 44784	Cormio R 44573	Crane J C 42584		Deay H O 45848
	Cornejo P M 45246			
	Cornelius D R 42941			







Item	Item	Item	Item	Item
Emden J H van 42259	Fabrizi C 46958	Ferri P 42836	Florea K S 48957	France Institut 47026
Emery A U 45982	Faddeev L A 44791	Ferrini U R 47113	Florenzano G 42131	National de la
Emery C A 48353	Faegri K 41960	Ferris C A 42342	Flores C A 47836	Statistique et
Emery C A 48354	Fafard A 44525	Ferris J P 48640	Florio R 47857	des Etudes
Emery G C 46288	Fahrenkrog L 44199	Fertig S N 43582	Flückiger G 45085	Economiques
Emmons W R 46591	Fair S J 48224	Fesneau M 47961	Flückiger G 45505	France Institut 47085
Emsweller S L 43306	Fairall L R 44792	Fesneau M 47962	Fluke C L 45858	National de la
Enders C 47111	Fairbank H 43064	Fessler D R 48745	Fluke C L 46442	Statistique et
Endrizzi L 48581	Fairchild H W 48603	Fetisov G G 43151	Fly C L 43941	des Etudes
Engdal O T 45660	Fairhurst R A F 46858	Fetrow W W 47416	Fogg H G W 43311	Economiques
Engelhard J 46592	Fairley E H 43308	Fetrow W W 48780	Fogg H G W 43472	France Minis- 48363
Engelhard J 46593	Falk L L 47612	Fett J 48611	Fogg J M Jr 49060	tère de l'Agri- culture
Engelhardt J H 44126	Falkenberg A J 47960	Fiala G 48995	Foggie A 45694	Francis C 47053
Engelmann H 43580	Famularo N 48201	Ficht J 46742	Fondard L 44092	Francis M 44201
Engels O 43988	Fankuchen I 42357	Ficker T 42442	Fondard L 48675	François A 44737
Engle N H 47536	Fantham H B 46139	Fidler L B 48673	Fontaines G de 47808	François M T 43022
Engle R H 42596	Farina M 42164	Fiedler J 42506	Fontán J M 45796	Frank B 43927
Englerth G 45014	Farm Founda- 48671	Field E T 47991	Fontanelli E 45695	Frank F A 42601
English L L 46138	tion 46764	Fielding A M 43470	Food and Agri- 48958	Frank M B 46232
Enlund O W 41959	Farm Implement 46764	Fielding J M 44420	culture Organ- ization of the	Frank F R 45639
Ensminger M E 45402	News Co 49004	Figueroa L C G 44200	United Nations	Fransson P 44460
Epwright E S 48997	Farmer F A 45504	Filachione E M 47052	Committee on	Franz J 45859
Epps W M 42230	Farmer R K 48356	Filachione E M 47186	Calory Require- 45191	Fraser G 43604
Erbring H 47569	Farmers Edu- 48356	Filippi E 48226	ments 45191	Fraser G R 43583
Eremin V M 45693	cational and 48356	Filley H C 48041	Foot A S 45191	Fraser H 43313
Erickson J F 45983	Cooperative 48356	Finley C B 47963	Foot F 42708	Fraser S B 47404
Erickson L C 42597	Union of Amer- 48356	Finn-Kelcey P 46704	Force L T 47912	Fraser S B 47448
Erickson R O 42464	ica 48356	Finnell H E 48118	Ford L E 42508	Frax Benedi E 42947
Eriksson E 42662	Eastern Div 46878	Finch C G 43471	Ford R G 48260	Frax Benedi E 43119
Eriksson E 43771	Farmers' Union 46878	Finch T L 44331	Ford S 48228	Frazier N W 42363
Eriksson E 43772	of Alberta 46878	Fincham J R S 42507	Forehand E 45086	Frazier W A 42166
Eriksson S 44709	Committee on 46878	Fincke H 47114	Foreman M 45403	Fredeen F J H 46278
Eriksson S 45743	Rural Electrifi- 46878	Fincke H 47963	Foreman W J 48544	Frederick W D 47646
Erland S 48355	cation 46878	Finlev C B 44931	Foreman W J 48544	Frederiksen P S 42904
Erlenbach H J 46703	Farrington R L 48225	Finn-Kelcey P 46704	Foresti C 45362	Frederiksen P S 47427
Ermisch K 46193	Farthing W 47425	Finnell H E 48118	Forfang E G 48913	Freed V H 43584
Ernest E 43989	Fassuliotis G 42387	Florini L 41962	Forrest A J 45731	Freeman A F 46947
Ertico P d' 42032	Fath H 43992	Fireman M 43723	Forsee W T Jr 43994	Freeman E P 45567
Ertel H 43990	Faucillon X 43309	Firstov A A 45294	Forslind E 43773	Freeman P J 42570
Esbo H 42598	Faucillon X 43469	Fischer F 45985	Forster K A 45986	Freeman R C 46848
Eskew E B 43991	Faulkner R P 41961	Fischer G W 42165	Fortner J 45506	Freeman W H 42858
Eskew R 47921	Faure G 45250	Fischer G W 42261	Fortner J 45507	Fregola C 43201
Esmenard G 44930	Fausel W 48129	Fischer R G 46506	Fortunatov N I 44439	Frei E 43879
Esmenard G 49057	Faust E C 49059	Fischer W 44355	Forward J 45568	Frei W 44797
Español Coll F 46194	Fava A 45084	Fisher C E 44129	Foss E W 46728	Freiburghaus S 42796
Espinoza L de 44047	Favret E A 42333	Fisher C H 46947	Fossati L 47779	Freitas H de 47380
Espy S 47537	Fawcett C J 47426	Fisher C H 47052	Foster A C 42600	French E R 47540
Esquivel L 46402	Fazackerley R L 45190	Fisher C H 47186	Foster A S 42443	French R A 46447
Esteban M 47855	Fedder K 47112	Fisher D F 46959	Foster C 45508	Frerich 44279
Esterlv D B 43307	Federer K E 44793	Fisher E G 43077	Foster C 48039	Freudenberger 46638
Etcheells J L 47645	Federer W T 49143	Fisher F 42837	Foster C B 48130	W 47809
Etschelt C 45325	Federico S 44526	Fisher H J 44795	Foster D H 44678	Freund W 47809
Eugene-Roches- 47231	Fedotov N S 44794	Fisher L 48781	Foster H H 45839	Frey K J 47709
son J 47231	Fedtko 44726	Fisher M 46923	Foster M B 43312	Frey R 42774
Evans A W 46904	Feess H 45984	Fitzgerald A J 44796	Foster R E 44078	Freyburger E 44130
Evans C D 47957	Feldmesser J 42387	Fitzgerald G P 42607	Foucault H de 48360	Frezal P 46279
Evans O R 47185	Félice P de 48582	Fitzgerald J W 42102	Foulland G 47115	Friedlaender 45662
Evans R F 47160	Félice P de 48583	Fitzgerald R D 42103	Fouquet 42838	M H G 45662
Evans T A 44008	Fell J M 45234	Fitzhugh O G 45855	Fourgeaud J 43995	Friedman B A 47651
Evans W H 46445	Felton R A 48465	Fitzpatrick E G 43878	Fowells H A 44459	Friedman F 46288
Evaporated 47325	Felton W R 48779	Fjeldalden J 45856	Fowle F E 45987	Friedrich G 46364
Milk Associa- 47325	Fenaroli L 42835	Fjeldalden J 45857	Fowle W 48676	Fries K 44932
tion and Indus- 47325	Fenger E 48912	Flad 44257	Fox A S 42509	Fries N 42262
try 47325	Fenne S B 42260	Flamigni A 44889	France Direc- 48361	Fries R E 42033
Evdokimov V IA 43198	Fenner R L 43920	Flavigny J 48227	tion de la Docu- 48362	Friesen H A 42602
Everard W P 49058	Fenner R L 43921	Flavigny J 48674	mentation 48362	Friesen H A 43585
Everest D C 44634	Fenton F 49005	Flavigny P 48357	France Direc- 48362	Friesner R C 44421
Everett H L 42505	Fenton F A 45851	Fleischman F F 47326	tion de la 48362	Frigerio J C 47327
Everett T H 43063	Ferber H 43993	Fleming H K 43200	Documentation 48914	Frind H 45919
Everly R T 42946	Ferberg B 46765	Fleming J D 46679	France Direc- 48914	Frisch K von 45988
Evers H 44677	Ferguson C M 47379	Fleming R 48358	tion Générale 48914	Frissendahl R 46811
Evreinoff V 43150	Ferguson D S 44128	Fleming R 48974	des Douanes et 48914	Frith H J 43093
Evreinoff V A 44354	Ferguson M H 43310	Fleming R 48974	Droits Indirects 48914	Frith H J 43119
Ewart G Y 43581	Ferguson W E 46926	Fleming R 49110	France Embassy 49124	Fritsch E 47710
Ewart G Y 44127	Ferlentus G R 47538	Flenner A L 42331	U S 49124	Fritsch H 46586
Ewell A W 47051	Ferlitsch H 48196	Fletcher A L 47964	Agricultural 49124	Fritz E 44440
Ewing A 45455	Fernando P D L 43116	Fletcher A L 47965	Sect 49124	Fritzsche 44461
Ewing B B 46613	Ferraguti M 47539	Fletcher P L 47856	France Institut 42795	Fritzsche R 43996
Ewing E C Jr 42903	Ferrari T J 43710	Fletcher T B 46439	National de la 42795	Fröhlich 44555
Eyster W H 43468	Ferraz e Silva 43199	Fleuri R 45661	Recherche 42795	Fröhlich H G 47428
		Flint L H 42115	Agronomique 46960	Fromer R 44287
		Floch H 46277	France Institut 46960	Frömming E 42167
		Flock R A 46361	National de la 46960	Fromont 48889
			Statistique et 46960	Fronza F M 45456
			des Etudes 46960	Frost R 47080
			Economiques 46960	
Fabergé A C 42599	Ferree R J 45839			
Fabre R 48097	Ferrer C M 48672			
Fabricatore J A 42130	Ferrer R 44225			



Item	Item	Item	Item	Item
Frostenson G 47303	Gardner K B 48785	Gerretsen F C 43937	Godfrey G F 48042	Gordon G B 47434
Fryar R G 48178	Gardner R 44020	Gerriets E 45416	Godfrey G H 43479	Gordon G E 44938
Fuchs H 44510	Gardner V R 47430	Gerritsen C 42168	Godlund S 48641	Gordon R V 45509
Fudge J F 43861	Garino-Canina E 47116	Gershenfeld L 47233	Godoy E F 42238	Goresline H E 48043
Fudge J F 44061	Garm O 44934	Gerstel D U 42609	Godoy E F 42269	Goret P 44861
Fudge J F 44243	Garner F 47810	Gertel K 44131	Godoy E F 42270	Gorham J R 45245
Fuembuena E 44288	Garnett G 48366	Gery J G 47967	Godoy Junior C 42906	Gorham J R 45302
Fukarek P 42034	Garola J 43776	Geyer R P 48986	Godoyo R P 48467	Gorizontova E 48044
Fukarek P 42035	Garrido Lozier 47811	Geze B 43982	Goedewaagen 43997	Gornik R 48160
Fukarek P 42036	O 42347	Ghabn A A 46536	M A J 47913	Gorozhankin V 46766
Fukumi K 47429	Garrigues R 42349	Ghisleni P 42842	Goetz A W 44258	Gorrie R M 44134
Fulgenzi U N 44933	Garrigues R 42263	Ghisleni P L 42447	Goetz K 46822	Gorringe I 46849
Fulgenzi U N 47187	Garriss H R 43386	Giannini Founda- 47401	Goff A 48956	Gorshkov M P 42846
Fuller H 47541	Garriss H R 45482	tion of Agricul- 42610	Gofman H F 41965	Gortner W A 42633
Fuller H J 41987	Gartley K M 48367	ural Econom- 44093	Goidanich G 42271	Gothie H 44378
Fuller L 45457	Gary H C 46258	ics 47055	Goidanich G 42272	Gothier F C 45313
Fuller V 47594	Gasser R 43677	Giannoli S 42610	Goidanich G 44332	Gottfeld S F 44259
Fuller W H 43795	Gastev N S 47660	Giarolo F 47055	Gold Coast 44332	Gottscho S H 41966
Fullmer F 43974	Gaston H P 47998	Gibbas L J 42949	(Colony) Public 47969	Gottstein J W 44584
Fumery G 44890	Gastrock E A 47998	Gifford C W 44937	Relations Dept 47969	Gotwals M C 43317
Fuminsha 48364	Gates A D 41996	Gifford C W 48299	Goldberg M 45868	Götze R 45087
Funderburk C B 48782	Gates R R 43316	Gigante R 42365	Goldblatt M W 45869	Gould C J 43318
Funk E M 45568	Gatley P 47966	Gigstead G 45282	Golden M J 47969	Gould E 45223
Furrer J D 42812	Gattefossé J 42605	Gil O de A 48278	Gol'din I L 44463	Gould G E 46508
Furuno Y 44891	Gauch H G 43880	Gil Montero J 47968	Golding N S 47243	Gould I A 47337
Futral J G 46666	Gaucher G 43000	Gilbert J 44800	Goldschmidt R B 46280	Gould W A 47570
	Gaufin D M 42948	Gilbert R R 48197	Goldsmith E D 46281	Gould W A 47605
	Gaul 42948	Gilbert S G 43643	Goldsmith E D 46282	Goulet E R 44541
	Gaulden M E 46507	Gildehaus E J 46705	Goldstein S 45753	Gouveia P F 45332
	Gäumann E 42264	Gildenhuys P J 42950	Goley R T 47260	Govin L 48468
	Gaume R 42104	Giles N H 42611	Golovkov P D 48132	Gow 47288
	Gaumnitz E W 47232	Gill M 47433	Gol'fsov V A 45993	Gowland J S 47858
	Gaus H 46582	Gill T 48466	Golubinskiy I N 43479	Grab E G 48789
	Gausebeck A 46595	Gillard A 42118	Golubinskiy S S 44512	Gračanin M 43711
	Gauss W 47711	Gillaspie B 46941	Golubkova V F 41986	Gračanin M 43730
	Gavarron F F 41963	Gillis M B 45460	Golubkova V F 42038	Grachev A P 44320
	Gavrikov K A 44511	Gilman W 46819	Golubkova V F 43152	Graetz K E 42953
	Gavrilkevich B 43202	Gilmore A E 41964	Gomes P 42843	Graf G C 45015
	Gazal J 44935	Gilmour E F 46195	Gomez M R 44132	Graffer P 44135
	Gebhard M 47054	Gilpin G L 47604	Gómez Q F 48559	Graffer R 47329
	Geddes H J 45192	Gilvino V 42265	Goncalves P A 42944	Grah R F 43920
	Geddes H J 46639	Giovannozzi M 48159	Goncalves P A 42945	Grah R F 43921
	Gee A J 45035	Giraud L 43203	Goncalves P A 44133	Graham B S 47261
	Gee J C de 43881	Giroud P 44901	Goncalves P A 46597	Graham E H 48368
	Gee L L 45453	Gisiger L 43777	Goncalves P A 46656	Graham E R 42649
	Gehrke C W 44239	Gist E S 43586	Gondim J A C 49006	Graham J H 42290
	Geler P 46140	Giullani R 44696	Gonggrijp J 43587	Graham P 44610
	Geiger 44257	Giullani R 45752	Gonnet M 47846	Graham P H 44611
	Geiger H L 46596	Givens J E 48787	Gontarski H 45994	Graham P H 47712
	Geiger J E 45992	Givens J E 48788	Gontarski H 45995	Grain and Feed 47712
	Geissler H 45864	Givens R L 47647	Gontarski H 45996	Dealers Nation- 47712
	Gendron Y 42364	Gjaerum H B 42201	Gontarski H 47780	Association 47712
	General Mills 48959	Gjaerum H B 42266	Gonzalez A J 43859	Gralén N 44679
	Minneapolis 48573	Gjaerum H B 42267	Gonzalez C 47117	Grallert 47031
	General L 42606	Gjaerum H B 42268	Gonzalez C A 43678	Grallert 47031
	Genkel' P A 49063	Gjems-Onstad E 48279	Gonzalez G 43854	Granger W J 48179
	Genoud J E 44936	Glaçon S 46196	Gonzalez L G 43120	Grande I 48369
	Genoud J F 47188	Gladhart P R 44892	Gonzalez Garcia 43901	Grandjean F 46141
	Gentry B 48786	Gladkii M F 42951	González Garcia- 45870	Grange L I 43883
	Geoghegan M J 43836	Gladkov N G 46706	Gutiérrez A 43679	Granger 46366
	George L V 42840	Glaesel H 45867	González O C 43679	Granger J A 43121
	George N 44799	Glanzmann R 47506	González Santos 44231	Grangler B 48370
	George N C 43728	Glaser E G 45570	A 42952	Granhall I 42614
	Georges L 47542	Glaser G 45732	Gooding T H 42952	Graniti A 42246
	Georlette R 48230	Gläser H 44556	Goodgal S H 42613	Granitov A I 42615
	Gerasimov S A 46680	Glass E H 42169	Goodgal S H 42734	Granolund R 45997
	Gerdes E 48263	Glass J L 47587	Gooding P H 46640	Grant B M 42616
	Gerdes F L 47431	Glass J L 47648	Goodnight C J 42394	Grant R 45754
	Gerdes F L 47432	Glassman E 46288	Goodrich H 47588	Granvik B A 44559
	Gericke A M M 48040	Glen R 45810	Goodson A L 46449	Granville A 47234
	Gerloff G C 42607	Glennon W E 47381	Goodwillie D B 47328	Graser H I 42274
	German R 42841	Glover P E 42612	Goodwyn F 48627	Grashuis J 45088
	Germany (Fed- 48915	Gloyd L K 46537	Goor G A W 43588	Grassé P P 42132
	ederal Republic 1949- ) Mini- 4462	Glutzky I I 4462	van de 43588	Grassé P P 46538
	sterium für 47147	Gneist H 47147	Gopalkrishnan 42273	Grassi C J 46899
	Ernährung 45363	Göbel F 45363	K S 42273	Grassi G V 42448
	Landwirtschaft 47221	Gobis L 47221	Gorbach G 47970	Graton A 47382
	und Forsten 48041	Goble J W 48041	Gorbachev V 43048	Grau C R 45468
	Aussenhandels- 44727	Godden W 44727	Gorbatov P P 46598	Grau F V 43310
	stelle 47735	Godding J A 47735	Gorbunova E 43204	Graves H 43066
	Gerretsen F C 42608	Godfrain J S 44802	Gordeuk A 45571	Graves P P 46450
				Graves P P 46451
				Gray M L 45696



Item	Item	Item	Item	Item
Gray P P 47118	Grillot G 43731	Haag H M 48791	Hamlin H M 48680	Hartsell S E 48047
Gray W D 42509	Grimpret J 45365	Haagen-Smit 42618	Hammar C 47782	Hartsfield W N 45573
Gray W D 47713	Grinding J 45999	A J 43067	Hammar C 47783	Hartsough G R 45303
Grayson G 47309	Griscom L 41967	Haan H de 43483	Hammerle O A 47604	Hartsough G R 45304
Gt Brit Board 48371	Grisol P 46452	Haan H de 43928	Hammond A E 47016	Hartsuch B E 47440
Of Trade 48399	Grob H 46256	Haan J ti de 44202	Hammond J 45092	Hartung A M 45193
Gt Brit Board 48399	Grogan C O 42895	Haaren R G van 48612	Hammond W E 47719	Harvey C 42959
Of Trade 48399	Groh 44260	Haas J 44261	Hammer A L 45893	Harvey E M 47651
Gt Brit Central 48098	Groninger Maat- 4858	Haas K B 44804	Hampton H E 44067	Harvey E N 46213
Off of Informa- 48098	schappij van 4858	Haase 42956	Hamza H E A 48374	Harvey E W 48177
Gt Brit Central 48352	Landbouw 48373	Haase 48373	Hanashima T 43081	Harvey G R 48265
Off of Informa- 48352	Pachtcommissie 48373	Haase A 48679	Hander N H 43247	Harvey G T 46509
Gt Brit Colonial 42847	Groot de 45206	Hackemann A 47841	Hankins O G 45817	Harvey J R 45574
Advisory Coun- 42847	Groot H de 44728	Hackett N 48792	Hannah A 46286	Harvill A M Jr 42105
cill of Agricul- 42847	Groote R de 42511	Haddad 47715	Hannah H W 48232	Harvill A M Jr 42106
ture Animal 42847	Grosh D S 46403	Haddemo H 46003	Hannerberg D 48472	Harwood L M 48534
Health and 42847	Gross D L 43030	Haddon C B 42908	Hänsel H 42798	Harwood L W 48473
Forestry 42847	Grossenbacher J 46586	Haddow R R 46922	Hansen C M 43982	Hassel 48587
Gt Brit Colonial 42847	Grossgeim A A 41997	Haddox C H 42787	Hansen C M 46664	Haselhuhn 49065
Off 42847	Grøtheim E 43321	Hadelor W D 48046	Hansen G S 48264	Hashmi Z A 48682
Gt Brit Com- 47435	Groves A B 42170	Hadjinicolaou J 46284	Hansen H 46867	Haskell G 43488
monwealth 47435	Groves W F 47285	Haegermann H 46004	Hansen H H 44003	Haskell R J 43083
Economic 47435	Grudzinski J 45366	Haessler G J 45872	Hansen H J 45418	Haskell W H 47057
Committee 47435	Grudet E A 47972	Hafez Afifi H E 47437	Hansen J E 48095	Haskell W H 45094
Intelligence Br 47435	Grummitt O 47973	Haffert W A Jr 46821	Hansen K 49491	Haskins R H 42621
Gt Brit Economic 48352	Grundmann A W 46404	Hagan E C 45846	Hansen O 47056	Haslam R J 43049
Information Unit 48352	Grüneberg W A 43481	Hagan W A 48805	Hansen P B 46707	Hasler A 43780
Gt Brit Forest- 42275	Grunsell C S 45698	Hagan W A 45784	Hansen R 47330	Hassan A 48681
ry Commission 42275	Guagliumi P 46199	Hagberg A 42512	Hansen R S 45572	Hassan A A G 45812
Gt Brit Milk 47283	Gualba C 43482	Hagman R H 42619	Hanson H L 45467	Hassan A I 46142
Marketing 47283	Gueti M 43281	Hageman R H 43680	Hara K 44464	Hasselman J B 43082
Board 47283	Guennel G K 41968	Hagen C 42957	Hara K 48917	Hassett C C 46510
Gt Brit Ministry 45431	Guenther E 47974	Hagen von 43484	Haraldson A 46672	Hastings E 46201
of Agriculture 45431	Guérande C 45417	Hagenstein W D 44379	Hardenbergh W 47914	Hastings W R 43068
and Fisheries 45431	Guérin B C de 47589	Hagenstein W D 44528	Hardin L S 48301	Hatch A B 42173
Gt Brit Ministry 46367	Guérin L 48372	Hägerstrand T 48617	Harding P L 47650	Hatch P W 44944
of Agriculture 46367	Gueydon L 42449	Haggett G 46453	Hardon H J 43779	Hatchery and 45575
and Fisheries 46367	Gueydon L 43322	Haggett G 46454	Hardy D E 46287	Feed 47331
Gt Brit Ministry 46866	Guignot F 46200	Hagle J E 47229	Hare W C D 45253	Hatchondo J S 47331
of Agriculture 46866	Guilhon J 45252	Haglund G E 42039	Haring 48110	Hathaway M L 49000
and Fisheries 46866	Guille E 46000	Hagood M J 48629	Harkare N H 48002	Hathout A F 45705
Gt Brit Ministry 47714	Guillemain R 46405	Hagsand E 43590	Harken J T 48133	Haub F E 42278
of Agriculture 47714	Guillemain R 46405	Hahne 44730	Harkin A M 47604	Hauck 42850
and Fisheries 47714	Guilrou R 44224	Hahne D 47859	Harlow R F 48891	Hauff R 44423
Gréaud R 45251	Guilrou R 46743	Haisma J P 43485	Harmon F N 43233	Hauman L 42041
Greaves C 44656	Guimaraes A P 48280	Hakkalainen A E 44557	Harmsen W L 44942	Haun J R 42714
Greaves H 45472	Guimaraes L R 47136	Halada C 42348	Harnach R 45774	Haun T H 44004
Green A A 46283	Guimaraes W 48198	Haldane 49028	Harned R L 41969	Haushofer H 48545
Green G G 43319	Guinaudeau J 44333	Haley T J 44806	Harnly M H 46281	Hausmann G 42960
Green J W 48628	Guinier P 49064	Haley W E 46437	Harnly M H 46282	Hauteville A 43123
Green S R 47118	Gulati A N 47436	Hall A J 47438	Harnly M H 46283	Havis J R 43595
Green T G 45089	Gulisashvili V Z 44422	Hall B J 47439	Harnly M H 46284	Hawes R C 48048
Greene H 43881	Gullander A 48790	Hall B M 42513	Harnly M H 46285	Hawker L E 42622
Greenslade J A 45755	Gullick J 46820	Harper A E 47571	Harnly M H 46286	Hawkes G R 48668
Greenwood E 45998	Gumpenberg 47812	Harper S H 44682	Harnly M H 46287	Hawkins B S 42909
Greenwood M L 47606	Freiherr von 47491	Harris J G 47608	Harnly M H 46288	Hawkins C N 46455
Greer B 48678	Gundavda S P 47491	Harris G A 43592	Harnly M H 46289	Hay J 45095
Gregoire C 14803	Günder M 46001	Harris H 46599	Harnly M H 46290	Hayden B E 45875
Gregory D 48890	Gunderson M F 48043	Harris J 44943	Harnly M H 46291	Hayden H 47441
Greig J R 45697	Gundrum L J 47079	Harris O W 42553	Harnly M H 46292	Hayes J B 45576
Greiss A 45364	Gunn C K 45312	Harris P G 43681	Harnly M H 46293	Hayes L F 43325
Gremmen J J 42133	Gunter A C 42907	Harris P G 44657	Harnly M H 46294	Häyryén E 41970
Grenada 48916	Gunther F A 45871	Harris R O 48681	Harnly M H 46295	Hayrinen T 46600
Gresham A J 48469	Guppy R 45811	Harris V C 43593	Harnly M H 46296	Hayward K J 46456
Gressitt J L 46197	Gupta A C 42405	Harrison C M 42958	Harnly M H 46297	Hayward W 43326
Gressitt J L 46198	Gurbin F V 44258	Harrison E S 45093	Harnly M H 46298	Hayward W 43327
Greve 43589	Gustafson F G 42617	Harrison G F 46920	Harnly M H 46299	Hazlewood B P 44029
Greve W 43998	Gutiérrez Rios 43732	Harrison H H 48586	Harnly M H 46300	Hazel H C 48793
Greve W 44244	E 43868	Harrison J D B 44270	Harnly M H 46301	Heaslip M B 42451
Greyling G P 47284	Gutiérrez Rios B 43868	Harrison J T J 42849	Harnly M H 46302	Hecke F 45775
Griebel C 47119	Gutnikova Z I 46002	Harrold L L 44094	Harnly M H 46303	Hecke F 45776
Gries G A 42276	Guttes E 45496	Heavy J B 42277	Harnly M H 46304	Heckman J H 48794
Griesbeck 42797	Guyaux R 45090	Harsdorf 48441	Harnly M H 46305	Heckman J H 48795
Griesbeck A 47971	Guyenot E 49027	Freiherr von 45874	Harnly M H 46306	Heckman J H 48796
Griffie W E 44527	Guyer R B 47607	Hart E 43594	Harnly M H 46307	Hector E O 47813
Griffin B J 44939	Guzmán G J 49010	Hart G H 43594	Harnly M H 46308	Hedemann-Gade 44317
Griffith B G 44371	Gvati H 43999	Hart J C 48995	Harnly M H 46309	E 44334
Griffith G A 43779	Gwin J M 45481	Hart S H 48281	Harnly M H 46310	E 44335
Griffiths R L 42954	Gwin J M 48045	Hartard Ebert M 48641	Harnly M H 46311	E 44336
Griffiths R L 42955	Gwin J M 48045	Hartard Ebert M 48918	Harnly M H 46312	E 44337
Griggs W H 42624	Gyles R 45756	Hartmair V 43487	Harnly M H 46313	E 44338
Grigor'ev V 44393	Gyorgy P 44724	Hartman J 42571	Harnly M H 46314	E 44339
Grigson G 43320		Hartman R T 42620	Harnly M H 46315	E 44340
Grillot G 43712		Hartmann H T 42450	Harnly M H 46316	E 44341
		Hartmann H T 43122	Harnly M H 46317	E 44342
			Harnly M H 46318	E 44343
			Harnly M H 46319	E 44344
			Harnly M H 46320	E 44345
			Harnly M H 46321	E 44346
			Harnly M H 46322	E 44347
			Harnly M H 46323	E 44348
			Harnly M H 46324	E 44349
			Harnly M H 46325	E 44350
			Harnly M H 46326	E 44351
			Harnly M H 46327	E 44352
			Harnly M H 46328	E 44353
			Harnly M H 46329	E 44354
			Harnly M H 46330	E 44355
			Harnly M H 46331	E 44356
			Harnly M H 46332	E 44357
			Harnly M H 46333	E 44358
			Harnly M H 46334	E 44359
			Harnly M H 46335	E 44360
			Harnly M H 46336	E 44361
			Harnly M H 46337	E 44362
			Harnly M H 46338	E 44363
			Harnly M H 46339	E 44364
			Harnly M H 46340	E 44365
			Harnly M H 46341	E 44366
			Harnly M H 46342	E 44367
			Harnly M H 46343	E 44368
			Harnly M H 46344	E 44369
			Harnly M H 46345	E 44370
			Harnly M H 46346	E 44371
			Harnly M H 46347	E 44372
			Harnly M H 46348	E 44373
			Harnly M H 46349	E 44374
			Harnly M H 46350	E 44375
			Harnly M H 46351	E 44376
			Harnly M H 46352	E 44377
			Harnly M H 46353	E 44378
			Harnly M H 46354	E 44379
			Harnly M H 46355	E 44380
			Harnly M H 46356	E 44381
			Harnly M H 46357	E 44382
			Harnly M H 46358	E 44383
			Harnly M H 46359	E 44384
			Harnly M H 46360	E 44385
			Harnly M H 46361	E 44386
			Harnly M H 46362	E 44387
			Harnly M H 46363	E 44388
			Harnly M H 46364	E 44389
			Harnly M H 46365	E 44390
			Harnly M H 46366	E 44391
			Harnly M H 46367	E 44392
			Harnly M H 46368	E 44393
			Harnly M H 46369	E 44394
			Harnly M H 46370	E 44395
			Harnly M H 46371	E 44396
			Harnly M H 46372	E 44397
			Harnly M H 46373	E 44398
			Harnly M H 46374	E 44399
			Harnly M H 46375	E 44400
			Harnly M H 46376	E 44401
			Harnly M H 46377	E 44402
			Harnly M H 46378	E 44403
			Harnly M H 46379	E 44404
			Harnly M H 46380	E 44405
			Harnly M H 46381	E 44406
			Harnly M H 46382	E 44407
			Harnly M H 46383	E 44408
			Harnly M H 46384	E 44409
			Harnly M H 46385	E 44410
			Harnly M H 46386	E 44411
			Harnly M H 46387	E 44412
			Harnly M H 46388	E 44413
			Harnly M H 46389	E 44414
			Harnly M H 46390	E 44415
			Harnly M H 46391	E 44416
			Harnly M H 46392	E 44417
			Harnly M H 46393	E 44418
			Harnly M H 46394	E 44419
			Harnly M H 46395	E 44420
			Harnly M H 46396	E 44421
			Harnly M H 46397	E 44422
			Harnly M H 46398	E 44423
			Harnly M H 46399	E 44424
			Harnly M H 46400	E 44425
			Harnly M H 46401	E 44426
			Harnly M H 46402	E 44427
			Harnly M H 46403	E 44428
			Harnly M H 46404	E 44429
			Harnly M H 46405	E 44430
			Harnly M H 46406	E 44431
			Harnly M H 46407	E 44432
			Harnly M H 46408	E 44433
			Harnly M H 46409	E 44434
			Harnly M H 46410	E 44435
			Harnly M H 46411	E 44436
			Harnly M H 46412	E 44437
			Harnly M H 46413	E 44438
			Harnly M H 46414	E 44439
			Harnly M H 46415	E 44440
			Harnly M H 46416	E 44441
			Harnly M H 46417	E 44442
			Harnly M H 46418	E 44443
			Harnly M H 46419	E 44444
			Harnly M H 46420	E 44445
			Harnly M H 46421	E 44446
			Harnly M H 46422	E 44447
			Harnly M H 46423	E 44448
			Harnly M H 46424	E 44449
			Harnly M H 46425	E 44450
			Harnly M H 46426	E 44451
			Harnly M H 46427	E 44452
			Harnly M H 46428	E 44453
			Harnly M H 46429	E 44454
			Harnly M H 46430	E 44455
			Harnly M H 46431	E 44456
			Harnly M H 46432	E 44457
			Harnly M H 46433	E 44458
			Harnly M H 46434	E 44459
			Harnly M H 46435	E 44460
			Harnly M H 46436	E 44461
			Harnly M H 46437	E 44462
			Harnly M H 46438	E 44463
			Harnly M H 46439	E 44464
			Harnly M H 46440	E 44465
			Harnly M H 46441	E 44466
			Harnly M H 46442	E 44467
			Harnly M H 46443	E 44468
			Harnly M H 46444	E 44469
			Harnly M H 46445	E 44470
			Harnly M H 46446	E 44471
			Harnly M H 46447	E 44472



Item	Item	Item	Item	Item
Heggstad H E 42279	Herman H A 44993	Hinkle W B 47591	Hood E G 47333	Hughes T 43339
Heggie V 48971	Hernandez T P 43600	Hinschberger P 46143	Hooghoudt S B 43733	Hughes T E 46146
Heghe M van 48546	Hernandez T P 43714	Hinshaw K 48802	Hoogland E J A 46667	Hughes W F 44138
Hegray H 43094	Hernandez-Xolo- 42071	Hinton T 46291	Hooper J A 47860	Hulbert L S 49283
Heidermann K 46005	Hernando V 43759	Hirschfeld W K 45757	Hoos S 48199	Hulburt W C 46664
Heidke L B 47620	Hernando V 43761	Hirschfelder H 46008	Hoover C 48961	Hull F M 46293
Heldrich H J 45096	Herold K 46006	Hirshfeld A 42552	Hoover C D 42910	Hullinger C H 47724
Helkens 45577	Herre A W C T 42135	Hirt R R 42282	Hoover M 42911	Hulme L L 48052
Helkinheimo A 43596	Herreid E O 47293	Hiscocks G A 48544	Hoover M D 44509	Humbert W 48331
Helm R 42132	Herrera Vass- 43124	Hitchins P E N 44007	Hoover R T Jr 47447	Hume D L 48053
Helm M A 43009	Herrick J B 45099	Hlynka I 47722	Hopken H 46851	Hume E P 43127
Heinen H 45097	Herrick J L 46368	Hoagland M B 42627	Hopkins D M 43744	Hume H H 43340
Heinsohn de 44697	Herriot R I 48377	Hoagland R 45677	Hopkins D P 44245	Hummel A 46011
Brigard J 42042	Hersey J 43331	Hoat A G 47290	Hopkins J A 48300	Hummel A 46012
Heiser C B Jr 43023	Herskowitz I H 46290	Hobgood P 46850	Hopkins S V 47448	Humphrey H 46925
Heiser C B Jr 43024	Hertel J 48049	Hobson A 48803	Horn L J 47978	Humphreys E 46013
Heitmann W 47590	Hertel J 48539	Hobson G 44947	Horn af Rantzien 42116	Hungate R E 44682
Helbig K 44666	Hertz-Kleptow 49067	Hobson K 48373	H	Hungerford H B 46372
Helevuo K 44667	Hertzler R A 44612	Hobson P N 46924	Hornburg P 43886	Hunkeler M 46014
Helline O 47719	Hervey R J 44067	Hockensmith R D 43885	Horne C B 44731	Hunkeler M 46015
Helling M 45326	Herzer F H 47237	Hockensmith R D 44203	Horne M K Jr 47449	Hunkeler M 46034
Hell W F van 42259	Hessler L R 42136	Hocker A J 46890	Horne W D 48137	Hunt G E 47029
Hell W F van 42280	Heslar J 46894	Hockett R C 48134	Horner W H 43604	Hunt G R 44594
Hellberg A 45016	Hess 45510	Hodges J A 48503	Hornung T G 49105	Hunt R A 43050
Hellbusch C E 45327	Hess C W 45578	Hodgman S F 45255	Horricks J S 42281	Hunting I R 48233
Hellier E G 47652	Hessberg H von 46007	Hodgson H J 42799	Horring J 48547	Hunter K 47979
Hellingman J E 45882	Hessberg H von 47284	Hodgson R W 42628	Horsfall J G 42314	Hunter R S 43490
Hellwege E 48871	Hesse C O 42624	Hofer P 46010	Horstmann D M 45777	Hunter V H 47451
Helm C A 43597	Hesse C O 42631	Hoff C C 46144	Horswell L A 45224	Huntsinger R 45650
Helm C A 43598	Hesse C O 43111	Hoff P 47654	Horwood M P 46999	Hurpin J 46016
Helmenius A 44945	Hewes L I Jr 48588	Hoff S 43335	Hoshaw R W 42629	Hurst E W 45369
Helstein R 47814	Hewitt W B 42174	Hoffman J C 43994	Hostettler H 47334	Hurt B C Jr 42917
Hembree J F 47442	Hewston E M 46923	Hoffman J L 44231	Hotchiss N 42044	Hurt L C 42964
Hembree J F 47443	Hey G L 43095	Hoffman J R 46370	Hottes F C 46362	Hurwitz N 42370
Hempel K 44599	Hibbard A D 43154	Hoffman M B 43088	Hou K C 43734	Hus P 42176
Hemphill D D 43205	Hibbard A D 43205	Hoffman M B 45980	Hou K C 43735	Husain M A 45021
Hemphill D D 43599	Hickey J L 46744	Hoffman R L 46145	Hou K C 43809	Husain M A 46203
Hende A van den 43781	Hicks E W 47058	Hoffman W H Jr 47998	Hough L F 42768	Husby M 45745
Hendel C E 47653	Hicks J S 45419	Hoffmann 45101	Houghton H G 49111	Hussein M 46511
Henderson A T 45822	Hicks J S 45420	Hoffmann E 48051	Houldson E 45637	Hussemann D L 48054
Henderson C R 44922	Hicks S S 42625	Hoffmann W E 46371	Houwink R 48099	Hussong R V 47300
Henderson E P 43328	Hicks WH 45756	Hofstee E W 48379	Hovd A 42963	Hutchings R S 45421
Henderson F M 42851	Hidy P H 41969	Hofsten C G von 45046	Hovde O 43987	Hutchinson J 45196
Henderson J A 45098	Hiestand W A 45813	Hogetsu K 44137	Howard A E 46852	Hutchinson J 44948
Henderson J R 45664	Higazi I A 44006	Hogg R B 43336	Howard F L 42175	Hutchinson K T 46879
Henderson J Y 44808	Higdon M F 43332	Hogg W 45195	Howard G E 42137	Hutchinson A O 47725
Henderson L M 42254	Higdonbottom C 47332	Hogsett J N 47572	Howard H W 42800	Hutclison J E 43248
Henderson W 45254	Higgins A V 43601	Hohls H W 47445	Howard R M 45020	Hüter F 49030
Hendricks J H 48797	Higgins F H 43602	Holan E 45328	Howe M 47723	Hüter L 45879
Hendricks S B 43757	Higgins F H 44136	Holand P 44321	Howe M A 48043	Hüter F B 45511
Hendricks S B 43782	Higgins F H 46657	Holland J B 42464	Howes R M 48642	Hut F B 45579
Hendricks S B 44005	Higgins F H 47721	Holland R F 46332	Howles R 42367	Hut F B 45579
Hendricks S L 44807	Higgins F H 42961	Hollar I J 48804	Hoyos de Castro 43736	Huttel V 46339
Hendrickson R F 47720	Higgins V 43333	Holland M G 47236	A	Hutton J 45422
Hendrickson R F 47798	Higgs J W Y 46709	Holloway S C 48266	A	Huyman M V 47151
Hendrickson R F 48799	Hilaire P M 48681	Holm A H 48919	Aoyt A S 45878	Hyatt G Jr 44986
Hendrickx A 43329	Hilbert G E 47767	Holman C W 48805	Hoyt G M 43337	Hyatt G Jr 44990
Hendrix J W 42676	Hildebrand F H 42043	Holman D D 44095	Hozaka H 43338	Hyatt G Jr 46837
Hendrix J W 43489	Hildebrandt A C 42626	Holmes E 45877	Hruschka H W 47651	Hyer E A 48548
Hendrix W E 48474	Hilditch T P 43334	Holmes H C 48380	Huang C H 43734	Hylar J E 44576
Hengl F 48282	Hildreth A C 44466	Holmes V 48685	Hubbards P E 45047	Hylar J E 44613
Hengst X 44465	Hiles M 48800	Holmjärn H J 45329	Hubbard J K 44658	Hylar J E 44614
Henick A S 47235	Hill H H 42016	Holmström S 47028	Huberman M A 44289	
Henin S 43713	Hill A F 44946	Holt E C 42962	Hudson J 47450	
Henin S 43762	Hill C B 45482	Holt R 46877	Hudson S C 47190	
Henin S 43783	Hill D C 46539	Holz G 47161	Hudspeth E B 46690	
Henin S 43783	Hill E L 43082	Homan J L 48475	Hudtloff M J 47059	
Hening J C 48960	Hill H K 45100	Homan J L 49103	Huell A C 43126	
Henley R R 45768	Hill R 46369	Homewood R A 45018	Huey B M 44600	
Henley R R 45769	Hille Ris Lam- 47572	Homewood R A 45019	Huey B M 44668	
Hennig W 49029	bers D 46954	Homolle J 46292	Huff E 44893	
Henrici M 42623	Hillenbrand E E 45368	Honegger E 47446	Huggart R L 47663	
Henrikson K 47691	Jr 47367	Honer C J 47237	Huggins H C 46457	
Henriques E 45194	Hillhouse F W 47027	Honey R R 46854	Hughes C E 47191	
Henry A W 42281	Hilliard B F 43603	Honig H 47578	Hughes G P 44008	
Henry M G 43330	Hills G L 42775	Honig P 48135	Hughes J S 44809	
Henschke M 43153	Hillson A 46846	Honig P 48136	Hughes P C 43025	
Hensill G S 45876	Himes M H 46202	Honn F J 47977	Hughes P C 42045	
Henschler H 45367	Hinchliff K 48801			
Herb T 45628	Hincks W D 48050			
Herbert D A 49066	Hinds B 47441			
Herdman W A 43470	Hinds R H Jr 45677			
Heriot J E 45641	Hinegardner O F			
	Hiner R L			



Item	Item	Item	Item	Item
Ignatius J G W 47579	International Cotton Advisory Committee 47453	James T H 44262	Johnson E L 45463	Jull M A 45584
Igolen G 47966	International Cotton Advisory Committee 47454	Jamieson C A 46020	Johnson E W 43342	Jull M A 45585
Ihsen G 46204	International Cotton Advisory Committee 47454	Jamison F S 43486	Johnson F 42147	Jump J A 42285
Iila B 44565	International Cotton Advisory Committee 47454	Jancke 46021	Johnson H B 47653	Jungherr E L 45513
Illeva S 43682	International Cotton Advisory Committee 47454	Jane F W 44691	Johnson J A 42885	Juon P L 49008
Il'ina A I 46295	International Cotton Advisory Committee 47454	Janiszewski J 45103	Johnson J S 46962	Jurén L 47030
Ilin W S 42630	International Cotton Advisory Committee 47454	Janiszewski J 45372	Johnson L E 44951	Juscafresa B 44014
Illingworth F 44894	Irish N P 46018	Jankowski B 48055	Johnson M M 46361	Jussiaux P 46905
Illinois Dairy Products Association 47335	Iowa Crop Improvement Association 48111	Janowski B 44810	Johnson O W 47061	Juszkiewicz T 49068
Ilmurzvánski E 44442	Iowa Dept of Agriculture 49032	Janowski H 47304	Johnson R 47239	
Ilitis J 42913	Irabagon T A 42493	Janse J A 42046	Johnson R E 45012	Kadambi K 46458
Imig C J 48991	Ireland Central Statistics Off 48618	Jansson H 44669	Johnson R E 46297	Kadziolka A 45256
Immink H J 44721	Irrigation Research Station 43119	Jaquinot G 45373	Johnson S 46710	Kaeser H 46023
Implement Rec- 46601	Irrigation Research Station 44064	Jaramillo Sierra B 44205	Johnston E L 46963	Kaeser W 46022
Indermühle K 45197	Irrigation Research Station 44064	Jarl F 44732	Johnston G W 45798	Kaeser W 46023
India Imperial 47192	Irving F H 43069	Jarl F 45022	Johnston H G 45880	Kagi F 45023
Dairy Dept 47086	Isaenko N 48686	Jarrige J 46205	Johnston H L 48687	Kahler K 46681
Indian Council of Agricultural Research 47086	Isakova A A 43838	Jarvis D C 49007	Johnston J C 44140	Kahn R L 45640
Indiana Board of Health 46897	Isakson F 48476	Jarvis R 45330	Johnston J E 44952	Kaila A 43786
Indisch Instituut Amsterdam 49031	Isaksson A 45370	Jaskowski L 45104	Johnston J R 44067	Kajahn E 44015
Indonesia Bos- 42043	Isenbergh F M R 43515	Jaskowski L 45105	Johnston J R 45048	Kallick J N 45266
bouwproefsta- 42043	Ishida J 47656	Jaune R 48200	Johnston J R 46690	Källström V 48212
tion 42043	Ishii G 46294	Javier S V Jr 43625	Johnstone E A 47193	Kalusch A 45514
Indonesia Genera 42205	Isleib J R 48234	Jayme 44356	Joley L E 42631	Kamp H J 46407
Agricultural Re- 42205	Isler D A 46745	Jayne G 44635	Jolivet P 46209	Kamp J R 42632
search Station 42205	Israel Research Council 49126	Jaynes M C 48806	Jolley R S 44645	Kanchaveli G I 44357
Indonesia Genera 42350	Istas J R 42051	Jeannel R 46206	Jolly N W 44443	Kanevskiy L A 48139
al Agricultural 42350	Istituto Naziona- 46019	Jeannel R 46207	Joly R L 43683	Kanitz G 48781
Research Sta- 42350	le di Apicoltura 46019	Jeffers W F 42321	Joly R L 47120	Kannenbergh H 44097
tion 42350	Bologna 46019	Jeffrey F P 45424	Jonas H 44141	Kanter J I 46711
Indonesia Genera 43588	Istomin M N 46295	Jelenc F 42001	Jones A F 45224	Kantner A H 49057
al Agricultural 43588	Iudin P 41999	Jellison W L 46148	Jones A F 45226	Kantola M 44547
Research Sta- 43588	Iukhimenko V 48284	Jelto J B 47785	Jones A H 46926	Kantola M 44558
tion 43588	Iurin A I 43491	Jenkins D 48807	Jones C H 43208	Kantola M 44559
Indonesia Genera 46500	Iusupova S 43785	Jenkins F 47543	Jones C H 43493	Kapitonov S 46729
al Agricultural 46500	Ivanov A 46602	Jenkins H 46823	Jones D F 43494	Kappelmeler C P A 47980
Research Sta- 46500	Ivanov S Z 48138	Jennings A R 42515	Jones D L 46690	
tion 46500	Ivanova N F 44139	Jenny C 45106	Jones E J 43840	
Industrial Waste 46942	Ivanova V V 44949	Jensen A L 48808	Jones H A 43495	
Conference 46942	Ivanova-Kazas 46406	Jensen A L 48809	Jones H C 48956	
Inghelbrecht C 43888	O M 46406	Jensen B B 48663	Jones I D 47645	
Ingold F 44415	Ivarson E 47262	Jensen H L 43839	Jones J H 45048	
Ingram J W 46437	Iversen J 41960	Jensen H O V 48921	Jones J M 43861	
Ingwersen W 43341	Iverson K R 49104	Jensen J 46868	Jones J R E 45814	
Ink D P 42321	Ives P T 46296	Jensen W 44636	Jones K L 41969	
Ink D P 43231	Izak G V J 44632	Jensen W 44680	Jones L W 48479	
Innes J R M 45700		Jeter F H 42853	Jones M P 45881	
Ino S 41972		Jewett H H 46208	Jones R E 46824	
Inoue K 47452	Jackendoff R 47455	Jewish Agency 47253	Jones R L 45198	
Inoue R 46524	Jacklin A W 42965	for Palestine 47253	Jones R P 45107	
Insko W M Jr 45581	Jacks G V 44204	Agricultural 47253	Jones W E 45644	
Institut Belge 42801	Jacks J 45102	Research Sta- 47253	Jong P de 42283	
pour l'Amelio- 42801	Jackson C R S 45642	tion 47253	Jong P de 42284	
ration de la 42801	Jackson M L 43802	Jewitt T N 43889	Jonge L J A de 43930	
Betterave 44577	Jackson M W 44690	Jewitt T N 43929	Jönköpings Läns 49033	
Institut für 44577	Jackson O M 44271	Jeydev T 44291	Hushallnings- 49033	
Wirtschafts- 44577	Jackson P M 48477	Jimenez 48922	sällskap 49033	
forschung 44577	Jackson R L O 43492	Jockey Club 45331	Jonsson E 43919	
München 44577	Jackson R K 42770	Joglar Rodri- 42802	Jordão L P 45332	
Institute of 44651	Jackson R W 46948	guez F 44012	Jordbruksstek- 46672	
Paper Chemis- 44651	Jackson T H 47657	Joglar Rodri- 44012	niska Institutet 46672	
try 44651	Jackson T L 44010	guez F 44012	Jörgensen A T 48056	
Institute of 44661	Jacob A 44011	Johannesson B 44246	Jörgensen C 48211	
Paper Chemis- 44661	Jacob W C 42711	Johansen A 43206	Jörgensen O J 46891	
try 44661	Jacobs H A 48473	Johansson E 43155	Jörissen 47580	
Institute on Re- 48643	Jacobs H L 43606	Johansson E 43207	Jörissen J 44096	
gional Develop- 48643	Jacobs J 47888	Johansson I 44950	Josi W 45732	
ment of the 48643	Jacobsen D H 47336	Johnson A A 42854	Joubert L 44861	
Southeast 48643	Jacotot H 45643	Johnson A A 48117	Joubert T G la 43544	
Instituto Nacio- 48947	Jacotmain D 48011	Johnson A S 45583	Joung R H 46512	
nal de Nu- 48947	Jacques D 45371	Johnson A T 44013	Jourdain C 45678	
trición 48947	Jacques-Félix 42000	Johnson B C 45676	Joy B 49127	
Insulander N 45718	H 42000	Johnson B C 47357	Juel-Brockdorff 46825	
International 45582	Jadin J 44801	Johnson C 48235	Juel-Nielsen A 44733	
Baby Chick 45582	Jalinois A 46565	Johnson C M 42729	Juergenson E M 45638	
Association 45582	Jamaica Dept 42297	Johnson D G 47023	Jukes T H 45464	
International 43715	of Agriculture 44595	Johnson D G 48301	Julien J P 47239	
Congress of 43715	James L M 44595	Johnson E A 45462	Jull M A 45425	
Soil Science 43715			Jull M A 45512	
				Kadambi K 46458
				Kadziolka A 45256
				Kaeser H 46023
				Kaeser W 46022
				Kaeser W 46023
				Kagi F 45023
				Kahler K 46681
				Kahn R L 45640
				Kaila A 43786
				Kaila A 44015
				Kajahn E 45266
				Kallick J N 47816
				Källström V 48212
				Kalusch A 45514
				Kamp H J 46407
				Kamp J R 42632
				Kanchaveli G I 44357
				Kanevskiy L A 48139
				Kanitz G 48781
				Kannenbergh H 44097
				Kanter J I 46711
				Kantner A H 49057
				Kantola M 44547
				Kantola M 44558
				Kantola M 44559
				Kapitonov S 46729
				Kappelmeler C P A 47980
				Kappen K 45426
				Kappus W 48285
				Karlson E L 45639
				Karman de 47953
				Sutton G 43035
				Karpenko P V 43035
				Karpoff E 48058
				Karpov V G 42395
				Karsunky- 47544
				Sundern H 47544
				Kartashev G A 43684
				Kartavchenko P 43209
				Kasatkin B V 43028
				Kästner F 48923
				Katae M 47000
				Katkoff V 48810
				Katkova M M 45675
				Katz D L 47955
				Kauffmann G 46459
				Kaufman C W 47121
				Kaufman J 47650
				Kaufmann D R 46698
				Kaufmann H P 47981
				Kavic L 43890
				Kawamura S 42177
				Kawamura T 42178
				Kawamura T 42179
				Kay H D 47279
				Kays J M 45404
				Kayser E 46712
				Kayser E 46768
				Kazanbayev N F 46024
				Kearl C D 48549
				Kearl C D 48550
				Kearney C F 47062
				Keepers W F 46730
				Keepers W F 46731
				Keeping G S 45665
				Keeppe W E 48559
				Kefford J F 47609



	Item		Item		Item		Item		Item
Kehr A E	42516	Kirk J B	47002	Kolchin A I	44470	Krupenikov I A	43098	Lambert J G	49038
Kelles E O	46923	Kirkham D	44143	Kollath W	47728	Krutov I	42967	Lambeth W O	44207
Keith A	44953	Kirman M	47983	Koloskov M	48059	Kryger J P	46408	Lamborn P W	48531
Kelbert D G A	43080	Kirman M	48237	Komárek J	45885	Kryzhanovskiy S C	49037	Lamire	44956
Keller E	42180	Kirov K	42634	Komarov A	46774	Kubiena W L	43893	Lammert A	46039
Keller H	47194	Kirpichnikov M E	41973	Komarov S P	46029	Kudriashov I I	46035	Lamoreaux J	48691
Keller H P	48382	Kirschfeld P	44529	Komono Y	45586	Kuffeler V J P	44148	Lampi R	44247
Keller J	47122	Kirste A	42856	Komorik K	48481	de B van		Lampman C E	46831
Kelley J N	47592	Kisgen R	48991	Kon S K	46920	Kühn F	46776	Lancaster C R	47957
Kelley J N	46964	Kisser	44681	Kondo H	42789	Kühnelt W	43841	Lancaster E B	47957
Kelley W T	46025	Kitchen E	47195	Kondrashin	44292	Kuiken K A	47984	Land Settlement Association	48574
Kellner R	46769	Kitov V	46900	Kondratyuk N	45587	Kulpers S F	43894	Landes K H	47125
Kellogg C E	43891	Kivimäe A	44735	Konev G I	44394	Kukachka B F	44685	Landi R	42639
Kellogg C E	46906	Kivinen E	43931	König A	43071	Kulichkov N N	46036	Landman O E	42776
Kellogg C E	47817	Kivinen L	44530	König E	44585	Kuliev A M	46037	Lane H L	48776
Kelsey S L	42047	Kjaer A		König P	43051	Kuliev A M	46038	Lane J E Jr	46540
Kempel A	47593			Konop C	44206	Kulik G K	48492	Lang L	48142
Kempster H L	45568	Kjellén C	47786	Koolhoff A	48813	Kulikov A A	44895	Lang W	46928
Kennard D C	45465	Kjos-Hanssen B	47286	Koonz C H	48060	Kulkarni H V	45110	Lange	46298
Kennedy C	44954	Klaiber W	47306	Koopman C	42857	Kulkarni Y S	42349	Lange B	46214
Kennedy J R	47416	Klapp E	44093	Köppe	45199	Kull R R	43609	Lange K D	44445
Kennedy J W	44759	Kleber-Colombes	46771	Köppen A von	44635	Kulp J F	47632	Lanham F B	46893
Kennedy K	42048	Klehm K A	44335	Koptev V	46030	Kuistad H M	48962	Lantelmé W	46215
Kennedy N F	42855	Kleiber M	45025	Korabiev I I	46031	Kumlerow F A	47939	Lanty H L de	45734
Kenny C H	47001	Kleiman B M	48140	Korchinski A I	48138	Kummerow F A	47950	Lapin P I	44568
Kent D H	42002	Kleimann	46682	Korchinski A I	48141	Kumpe J O	48061	LaPlant A A	45980
Kent D H	42049	Klein J	45758	Kordon R A	43157	Kunicki-Goldfinger W	45785	La Plata Universidad Nacional	42319
Kent M	42633	Kleine R	46210	Korfiashnov V P	46032	Kunkel R	44020	Facultad de Agronomia	
Kent O B	45466	Klemm A	42181	Kormilev N A	44814	Kuntz J E	42288	Cátedra de Fitopatologia	
Kent-Jones D W	47726	Klemm K	44637	Kornilov A A	42966	Kuperman F M	42636	Lardinelli G	46603
Kenya Land Bank	48236	Klenke W G O	47727	Koropow W M	44815	Kuprifanova L A	41973	Larsen H	44099
Kenyon W O	47456	Klevay L M	45427	Korrick F C	46567	Kuprifanova L A	42050	Larsen N A	42640
Ker J W	44371	Kline A	48381	Korsgaard V	46826	Kurth E F	46568	Larsen O D	42370
Kerk G J M	42295	Kling W	47453	Kortkamp M	48161	Kurtze F	44021	Larsen P H	48705
van der Kern H	42286	Klinkovitzky S	44016	Korven H C	44145	Kuryleva E	46105	Larson A L	47716
Kern H G	45108	Klintworth H	44017	Kosikowsky F V	47242	Kuschel G	46212	Larson Mrs H	43348
Kernan H S	44468	Kliushnik P I	42287	Kosikowsky F V	47340	Kuschel G	46213	Larson R E	42518
Kerner A J	42396	Klobouk A	45778	Kostakov A N	44146	Kuschel G	46212	Larson R E	42518
Ritter von Mari-laun		Kloebouk A	46772	Kostrovskiy G	46774	Kuschel G	46212	Larson R E	42518
Kerr T	42452	Kloepfel R	47063	Kotina V E	47840	Kuz'michè V A	48483	Larson R E	42518
Kerr W E	46026	Klomp G	42295	Kotina V E	47840	Kuz'min A	43210	Larson R E	42518
Kershaw S	47457	Klöpping H L	42295	Kotlenko N I	45675	Kuzmin M K	42637	Larson R E	42518
Kesler E M	45024	Klose A A	45467	Köttner G	48690	Kuznetsov M P	45666	Larson R E	42518
Ketelaar J A A	45882	Klosse E	46895	Koutler-Andersson E	42662	Kuźniar K	44022	Larson R E	42518
Kevan D K M	46540	Kloth W	46773	Kovalev A M	46033	Kuźniar K	44022	Larson R E	42518
Kevorgov A P	44009	Klotzbach W J	48550	Kovalev M	46775	Kyle E	43346	Larson R E	42518
Khalli K F	48363	Knapp J G	48811	Kovalev M	46775	Laacke E W	45886	Larson R E	42518
Khan A W	46203	Knapp J G	48812	Kovalev M	46775	Laan P A	45887	Larson R E	42518
Khan N A	47982	Knapp O	43070	Kovda V A	44147	van der		Larson R E	42518
Khariamov G I	44469	Knappenberger J F	44812	Köylü K	48482	Laberge P X	44638	Larson R E	42518
Khelsin E M	46149	Knaus K	48689	Koz'menko V	47381	Labouchere	45733	Larson R E	42518
Khokhlacheva N A	43496	Knief	44018	Krabbe N	48386	Labrie J	42914	Larson R E	42518
Khokhlov E I	46683	Knight C W	44955	Kraev S P	46029	Labrousse M	43347	Larson R E	42518
Khristoff A	42368	Knight R L	48385	Kral F	45374	Lacan	45257	Larson R E	42518
Khristova E	42369	Knight S G	47240	Kramer A	47607	LaCasse W J	46348	Larson R E	42518
Kibler H H	45068	Knott C B	45024	Kramer D	42183	Lacey J J	45719	Larson R E	42518
Kidwell J R	48644	Knopff	44263	Kramer U	47124	Lachman W H	43610	Larson R E	42518
Kieferle F	47338	Knowles G	43607	Kramis N J	46034	Lachowicz S	44816	Larson R E	42518
Kiel H	43787	Knowlton C H	42016	Krantz F Jr	46148	Lackman D B	46155	Larson R E	42518
Kielland-Gyrd C	46770	Knowlton G F	45883	Krasikova V I	47605	Lackmann H	48653	Larson R E	42518
Kieschke S	44811	Knowlton G F	45884	Kraska E J	45821	Lacoste R	46927	Larson R E	42518
Kihss P	46907	Knowlton G F	46028	Krasnov D M	47017	Lacourciere H	45588	Larson R E	42518
Kilby W W	43643	Knox C W	45617	Kratzer F H	46061	Lacourcy G	44513	Larson R E	42518
Killion C E	46027	Knudsen D F	44692	Kratzer F H	45468	La Croix J D	42638	Larson R E	42518
Kilpatrick D T	43497	Knull J N	44692	Kratzer F H	45469	Lacy E	49094	Larson R E	42518
Kimball E S	48082	Kobayashi H	46211	Krause F	45470	Ladue H J	45314	Larson R E	42518
Kimmins D E	46541	Kobusiewicz T	44656	Kraus G A	43036	La Fouchardière de	44444	Larson R E	42518
Kimmins D E	46542	Koch	44842	Kraus G A	44423	Lagasse F S	43985	Larson R E	42518
Kimura Y	48589	Koch	47545	Kraut	47031	Lagauste F de	48814	Larson R E	42518
King A S	44142	Koch J	47123	Kreiser R F	43498	Lagermalm G	47486	Larson R E	42518
King C J	48480	Koch L W	42182	Kretdorn A H	42184	Lägnert F	48387	Larson R E	42518
King F A	43097	Koch R B	47255	Kreizlinger C C	47930	Lagos U J A	44023	Larson R E	42518
King F A	43156	Koch S O	46997	Kroes R C A	45956	Lagos U J A	49115	Larson R E	42518
King G W	44734	Kocowicz I	47241	Krollkowsky S	46908	LaHaye J A	48062	Larson R E	42518
King G W	46713	Koelle G	42517	Kroll	44293	Lahiri B M	45111	Larson R E	42518
King N	47339	Koenigs F F R	43892	Kroll	44518	Lahure R	44817	Larson R E	42518
King R A	48993	Koger M	45086	Kromdijk G	43343	Laing J A	44698	Larson R E	42518
Kingston D E	45109	Köhler H	44813	Kromdijk G	43344	Lal R	45883	Larson R E	42518
Kip W S II	47921	Kohlermann L	42635	Kromdijk G	43345	Lalatta F	45889	Larson R E	42518
Kirby H	49069	Kohli M L	44979	Kronauer F	47459	Lamare F de	43788	Larson R E	42518
Kirillov S K	46071	Kohn-Abrest E	47003	Kronebach A	44019			Larson R E	42518
		Kohn-Abrest E	47004	Krosby P	47729			Larson R E	42518
		Köhne	46684	Krueger G J	47254			Larson R E	42518
		Kokovin E V	44144	Krueger W C	46641			Larson R E	42518



Item	Item	Item	Item	Item
Lecocq Mme H 47787	Lewis E A 45114	Llano Posada A 44959	Lucas B F 44395	McCrummen M 48965
Lecomte J 45629	Lewis E A 48691	Llensa de 42003	Lucas D 46463	McCully A 43355
Le Conte J 42859	Lewis F C 46828	Gelcen D S 46714	Luce A D 48143	McCully B H 46779
Lecronier J 44736	Lewis F T 42454	Lloyd M H 46715	Luchsinger 42863	McCutcheon G K 42925
Lederle Labora- tories 45799	Lewis G 48916	Lloyd R 46715	Madorin & Cia Lücke 44472	MacDaniels L H 43077
Research Dept Ledoux G 45701	Lewis H 42520	Lobaev N I 44358	Luckner H Graf 46687	McDiarmid N I 43686
Lee A E 45471	Lewis H F 44639	Lobo R 44739	Lüdecke H 48144	McDonald B K 43615
Lee C D 45515	Lewis J N 48624	Lobos C A V 42862	Ludwig A 46041	McDonald H A 42971
Lee C K 43789	Lewis N G 43612	Lochhead A G 42747	Ludwig F 43685	McDonough E S 46301
Lee F A 48960	Lewis W A 43643	Lockard C R 44542	Luginbuhl R E 45513	McDowell F H 48821
Leeman C 48924	Leyendecker P J Jr 47461	Lockspaiser Sir B 42455	Lugo Lopez M A 43872	McDowell G W 42055
Leenheer L de 43737	Lezhebrukh G O 46174	Locquin M 44208	Lührs 44960	MacDowell L G 47663
Leenheer L de 43738	Lhoste J 43000	Löddesl A 42521	Lührs E 44823	Macedo J N 45119
Leenheer L de 43790	Libby J A 47906	Loden H D 43352	Lull H W 44503	McElroy W D 46219
Leenheer L de 43791	Lieberman S 44295	Loder Sir G 46778	Luna Ercilla C A 47464	McEvoy E T 42650
Leenheer L de 43792	Lidl O 46513	Lodigiani L 46462	Luna Ercilla C A 47465	MacEwan D M C 43794
Leenheer L de 43895	Liebermann J 44820	Loeltiger R 44405	Lunan M 44100	MacEwan J W G 48697
Leenheer L de 44024	Lienert E 45376	Loetsch F 44406	Lunan M 44150	McEwen A D 45702
Leenheer L de 44025	Lienert E 43896	Loffman D 45313	Lund A 44536	M'Ewen E 46659
Leenheer L de 44026	Lienert E 43897	Lofgreen G P 45025	Lund O 49040	McFadden A J 48390
Leenheer L de 44027	Liere W J van 42861	Löfken 46829	Lund R G 47466	McFall J R 48289
Lees H 43842	Lierman M 45334	Lofthouse F 45118	Lundberg 44317	MacFarlane 42651
Lefaux R 47008	Lieux P 48992	Lofthus J L 48695	Lundberg H 44323	MacFarlane P 45667
Leffler A T 42860	Lifquist R C 45235	Logothetis C 46514	Lundell A 44824	McGann W R 45644
Lefforge J H 42643	Ligenzowski F 48137	Loh C S 42647	Lunder R 46042	McGee W R 45337
Le Gac P 46150	Liggett R W 42866	Löhr L 46658	Lundh A 43354	McGee W R 45378
Le Gallo C 49071	Lignon R 44897	Löje K 45779	Lundström A 48303	McGeorge W T 43725
Legeay G 44957	Ligondes F de 42186	Lollar R M 47842	Lunnum K 44396	McGeorge W T 43795
Legendre P 48619	Lihnell D 45651	Lomax E B 45590	Luong D C 42522	MacGillivray J H 43499
Legge-Bourke H 48590	Likerman J E 44238	Lombard C 47884	Lur'e M 47915	McGinnis J 45518
Leggett H W 43611	Likhachev A M 46604	Lombardi R 47462	Lush J L 45200	McGinty T 44664
Lehman S G 42290	Liles J L 42770	Loncin M 48011	Lusk W C 42935	McGinty T 49137
Lehmann 44380	Lilleland O 45897	Long C M 47820	Lüthi G 42796	McGlasson E D 47343
Lehr J J 43793	Lilly C H 46217	Long E J 43613	Lüthi P 46043	McGurk J L 48488
Lehrner H 45405	Lilly J H 46460	Long J K 47608	Lütje F 45780	Machacek J E 42292
Leiby R W 43521	Lima A D F 46461	Long L L 48818	Lutokhin S N 42523	Machado R S 45519
Leighton R E 45006	Lima A da C 46218	Long O H 44029	Luttrell E S 42187	Machado R S 46302
Lein J 42644	Limasset P 42364	Long W 44670	Lutz J M 47617	Machado S S 42864
Lein P S 42644	Limerick J M 44640	Long W H 47893	Lybrook P 45735	McHardy D N 46605
Leite A P de S 49072	Lin P W 47064	Long WH 48553	Lybrook P 45800	Machlin L J 45520
Lekariev W M 45375	Lincetto G 45335	Longenecker H E 47005	Lybrook P 45801	Machwirth O 46606
Le Masne G 46196	Lincoln C 46467	Longfield C 46543	Lykov M 47915	McIlrath W J 42652
Lemay P V 44560	Lindegren C C 42646	Longhouse A D 46837	Lyle C 45893	McIlvaine E H 45037
Lemon J M 48181	Lindegren G 42646	Longmore T W 48448	Lynch L J 47610	McIlwaine A 42297
Lener A 44896	Lindeman V F 45517	Longoria A F 47463	Lyness W E 43030	McIntosh F H R 46716
Lenington G E 43349	Lindenbergh H A 44641	Longstaff W H 42649	Lynn M 47605	McIntosh T P 43500
Lenroot K F 48963	Lindner J 44578	Longwell J H 44239	Lyon L 48956	McIver J 49095
Lense K 47126	Lindsay G G 46685	Lona F 41977	Lysak M V 46044	McKay A W 47586
Lent H 46374	Lindsey Q W 48286	Lona F 41978	Lysenko T D 44473	McKee H S 42653
Lenti L 48925	Lindstrom D E 48645	Lona F 42456	Lytle W F 44181	McKenzie H A 47609
Lentz A 44471	Lineweaver H 45467	Lona F 42648	Lytle W W 43878	Mackenzie R C 43796
Leonard J 42052	Linge A van 48383	Loomis C W 47732	Maag G 48486	McKeown C B 48100
Leonov N I 49039	Link C B 42714	Loomis H F 43353	Maatsch R 43392	McKeown K C 46220
Leont'ev I 47882	Link H 42969	Loomis N H 43213	McArdle A A 45591	McKev E M 42654
Leopold L B 41975	Linkous W N 46702	Loosli J K 45053	McAuliffe W S 47467	Mackie J 46607
Leopold R 47731	Linn A 47517	Lopes C F 47342	McAshan S M Jr 47861	Mackintosh D L 48239
Lepeshinskafä O P 45516	Linnenkohl K 45679	Lopes L 48646	McAuliffe W S 47861	Mackintosh J 47907
Lepeshkin V I 47883	Linsley C M 44028	Lorenz O A 44030	McBride C A 47243	Mackintosh J 47287
Lepesme P 46216	Linzell J L 45258	Lorenzini O A 43614	MacBride J 46698	Mackintosh J 48489
Lepetit J 44819	Lippincott R W 46965	Lorito F 42053	McCabe P J 46255	Macklin H P 45429
Leppik E E 46040	Lippmann K 49481	Lorkiewicz Z 45785	McCall R 47470	Macklin H P 45430
Lerner I M 45428	Lippmann K 48817	Loth A 48287	McCallum J W 44961	McKnight W R 48064
Le Roux P 46827	Lippmann K 43756	Loudon G 46947	McCann J J 47463	McLaglen C F 44615
Le Roux P 47546	Lissot G 45589	Loughary F 47263	McCann L P 45117	McLauchlan D 45120
Leroy A M 44737	Listov A A 43212	Lousley J E 42054	McCay C M 47006	McLean A J 43957
Leroy J F 42453	Little S 42397	Lousse A 44821	McClarren H 48696	McLean D M 42293
Lesin's K 42968	Littlefield J J 43351	Lousse A 44822	McClarren H 48733	McLean N A 42294
Leslie N 48302	Littlejohn A I 45702	Loustalot A 44225	McClarren H 48820	MacLennan I S 45379
Leslie W R 43350	Littin G W 42970	Louvain P 43159	McClary C F 45428	McMahan D H 43878
Lesse H de 41976	Litvinenko T 46777	Louwes H J 47264	McClymont G L 45118	McMahon G 48966
Letessier A 44625	Litzenberger S C 42799	Lovric N 44548	McClymont G L 45472	McMillan J A 48430
Letkovsky A I 44502	Lutikova P 48073	Lowe L M 48819	McClymont J W 42109	McMillan T E 48391
Lettre J P 44958	Livingston A M 45891	Lowen W H 46929	McConkey D 46915	MacMillan W G 47469
Leuschel O H 44381	Livingston L F 46943	Lowenthal M 45787	McCormick C J 48487	McNally A 45259
Leutin P 43211	Livingston V 48509	Lowry J R 49001	McCormick J C 46568	McNamara H C 42524
Levacher 45720	Livingstone H 48964	Lowry M T 47733	McCoy D C 47065	McNeill D 47945
Levenbook L 46299	Ljones B 46686	Lowry R K 45284	McCrea R J 42188	McNeill J R 42865
Leverton R M 48998	Llano Gómez E 47819	Lowry S J 45581	McCrea W Jr 47754	MacNeill N 46544
Levin J H 47660		Lowy B 42108	McCrea W Jr 47755	MacNeill N 46545
Levine M 42645		Lubin I 44149		McNeilly D 48822
Levine M N 42291		Lübke A 45377		
Levitan M 46300		Luca M de 45336		



	Item		Item		Item		Item		Item
Macola P	47198	Manning J	45338	Marts R O	44683	Mejfa J M	47821	Mezerlik A G	47032
Macola P	48554	Manolov I	42659	Martyn E B	42297	Melander Y	45783	Mezger H	45313
Macpherson N E	46880	Manquat M	46047	Martynov M I	48145	Melchers L E	42299	Mezzetti A	42232
McQuate J T	46303	Mansfeld R	42056	Marucchi J	44826	Melgar H (Hijo)	48555	Mezzetti A	42271
McQueeney C R	42399	Manso Soto A E	46546	Maryland Board	44297	Melhuus N	47200	Miasnikov V Z	45315
Macrilli J R	47661	Mansson E	46610	of Natural Re-		Melikhov P S	44474	Michel V	45339
McShane J P	47916	Mantelet C	43898	sources		Mello A T de	48114	Michelbacher	46466
McTurk T	44962	Manten A	42295	Maryland State	45592	Mello B C C de	43699	A E	
McVeigh I	42655	Marangoni L	44671	Poultry Council		Mello E M de	44033	Michener C D	46409
MacVicar R	45786	Marcato A	47886	Massani N J	44603	Mellor A	48699	Mickevich M J	47129
Macy H	47184	Marchal H	46611	Mashkovcev M F	48162	Melo M	45593	Mickey G H	46307
Madelung P	46997	Marchal H	46780	Mashtaler G A	45521	Mel'nik M K	48492	Middelburg H A	43717
Mading E	48647	Marchegiani G	46525	Maslov V A	43161	Melshelmer H	44031	Middelburg H A	43803
Madrid (Prov-	44296	Marchesini G	46612	Masloero P	44827	Melvin B L	48630	Middlekauff W W	46466
ince) Serv		Marcussen	42973	Mason A C	42661	Memphis (Tenn)	47385	Miege E	42867
Forestal		Marec E	46881	Mason K E	45304	Merchants Ex-		Miege E	47988
Madsen M	46869	Marel H W van	43798	Mason R	42006	change Clear-		Miege M	42868
Magat A	47846	der		Mass D	44152	ing Association		Miege M	42869
Magee A	46668	Marel H W van	43799	Massachusetts	48113	Memphis (Tenn)	47987	Mielck O	48394
Magee A I	46874	der		Seed Control		Merchants Ex-		Mignotte F	46782
Magee K L	46608	Margheritis	46358	Serv		change Clear-		Miguel y Cusco	47734
Magini E	42656	A E		Massieu H G	49010	ing Association		J	
Magni	44317	Margolf P H	48065	Masters L C	42708	Menat J	46614	Mikhailov P N	48557
Magnum M	45680	Margolin A F	43160	Matalana	47345	Mendez Plasen-	45123	Mikheev S D	44407
Magnus D	46464	Marichal M	47133	Ventura S		cia V		Mikolashch W	45027
Mahal G S	45721	Maricz M	44699	Mateu Sanpere J	46223	Mendoza A	46615	Miksic R	46226
Mabeu C	44569	Marion P	46151	Mathon C C	43687	Mendoza T M	46830	Mikusch J D von	47989
Mahl H	47453	Marion P T	44129	Mathur R N	46224	Meneough H	45736	Milbrath J A	42355
Mahl W	46892	Marke D J B	45897	Matsumoto G	44031	Meneret G	49128	Miles W H	48305
Maia D	44209	Markle M S	42117	Matt J	47548	Menke H F	46050	Millar C E	43942
Maier E A	46609	Markoff S	48004	Matta E A F da	42324	Menke H F	46051	Millar R L	42281
Maier K	49073	Markovc D	48304	Mattels L M de	44828	Menon H B	43130	Miller A G	42872
Maier-Bode F W	48392	Markovc P	46930	Matthews E M	48163	Menon M G R	46306	Miller A R	47887
Maillet L	46304	Marks J L	45026	Matthiessen	43357	Mentley G L	46966	Miller C	46783
Main A D C	43501	Marmion B P	48871	M M		Mentz N J	43554	Miller C J	47202
Mainardi G	45351	Marmion B P	44825	Mattos J R	42059	Mentzer J	46052	Miller C K	44153
Mainelli M	46045	Marquats A	49074	Mattson S	42662	Mentzer J	46053	Miller C W	42665
Mains E B	42138	Marracino R	47199	Matuda E	42060	Menzel R G	43802	Miller C W	42666
Mair L P	48333	Marsal J	48289	Matzen W	45203	Menzies J D	42190	Miller D D	47244
Major W A	43616	Marschall W I	43618	Maughan G L	46688	Mer I	46781	Miller D D	47346
Major W A	45894	Marsden S J	48066	Maugini E	42457	Mercer A D	44741	Miller E	48967
Major W A	45895	Marsh G L	47127	Mauri N	43129	Mercer R	42300	Miller G D	42885
Major W A	45896	Marshall A	47571	Mauritius Cen-	47087	Mercier D	46051	Miller H F	46690
Majorelle A	47985	Marshall A J	44963	tral Statistical		Mercier N	44700	Miller H I	48068
Makaro I L	43502	Marshall B	45470	Off		Meredith D	44001	Miller H L	48535
Maki R	46569	Marshall C E	43800	Mauritius Sugar	43037	Meredith D B D	44000	Miller J C	48968
Maki T E	44497	Marshall D A B	48926	cane Research		Merish F	47201	Miller J C	42777
Makino S	45815	Marshall E R	42660	Station		Merish F	47265	Miller J C	45035
Malan C E	42139	Marshall G E	45899	Max R A	47986	Merkel C M	47472	Miller J M	46745
Maleev V P	44359	Marsland H	45899	Maxwell S	43358	Merkens J	45206	Miller J P	46832
Malinglewicz C	45781	Marteaun G	47133	May D W	48823	Merkin J C	48700	Miller J R	48290
Malinglewicz C	45782	Martignolles J	45122	Mav J C	42915	Merkulova P	43216	Miller N C E	46375
Malfugin T T	44424	Martino E	45202	Mayer A	46909	Merman J E	47055	Miller P A	42175
Valkames J P Jr	47344	Martino E	45202	Mayer R	42866	Mermert P	45061	Miller P A	42302
Malkames J P Jr	47361	Martin C	48991	Mayer-Wegelin	44684	Merola A	42061	Miller P W	42191
Mallet J	44382	Martin C H	46305	Mayers G H	45313	Merriam D	42359	Miller P W	42371
Malmonite	43503	Martin C S	44531	Mayfield H L	47082	Merrill L G Jr	45900	Miller P W	42372
Malmus H	43504	Martin D F	46465	Mayne E S	46048	Merrill R	46831	Miller R A	47632
Malquori A	43797	Martin F	47547	Mayne F C	45227	Merrill S	43643	Miller R W	48824
Mal'hev T	42525	Martin J A	43619	Mazel M	44898	Merrill S	43690	Miller S A	48825
Malý K	42004	Martin J F	46198	Mazerolle	48213	Mesa Salazar J	45901	Miller V L	42147
Malý K	42005	Martin M	48698	Mazzei I	42298	Messeri A	42458	Millikan C R	42667
Malyshev P P	45668	Martin R P	43819	Mead M	48999	Messeri A	42663	Millman T E	45028
Mamontova A N	42657	Martin S	42974	Meadly G R W	43620	Metcalf M E	44498	Milne A	43749
Mangus A R	48620	Martin W W	46901	Meadows B	47471	Metelmann R	46225	Milne F J	44830
Mani R S	47470	Martin W W	49112	Meagher W R	42729	Métivier S	42975	Milner M	47735
Manley T R	43356	Martin Abril	45722	Mecchi E P	45467	Metzner	48613	Milner R T	46948
Mann C	47843	F J		Mecham D K	47743	Meulen J B	48493	Milovanov V K	45630
Mann C	47917	Martin Retor-	43716	Medici G	48201	van der		Minch V A	46999
Mann D	46570	tillo N		Medici G	48491	Meurman O	43622	Minckler L S	44475
Mann D H	42972	Martin Vivaldi	43732	Medici M	46049	Meyer	46732	Minckler L S	44476
Mann D H	43932	J L		Medina A R de	47128	Meyer E	47936	Minderhoud J	44101
Mann D H	44151	Martinez A	46222	Medvedeva K A	43214	Meyer F W Jr	47621	Miner F D	46467
Mann E S	45285	Martinez A	46340	Mee R C	43470	Meyer G	42459	Minervini I	42668
Mann F B	46046	Martinez E J	42189	Meek W E	46613	Meyer H	42301	Minett F C	44831
Mann G	43617	Martinez E J	42296	Mehlich A	43801	Meyer K	48556	Minjoz L	44210
Mann G E	45431	Martinez J F	48413	Mehrfhof N R	45566	Meyer S L	42099	Min'kov S G	46055
Mann G V	45259	Martinez M	42057	Meiklejohn J	43688	Meyer W	44035	Minnum E C	45902
Mann L K	42658	Martinez M	42058	Meilhan A	43215	Meyer-Brenken	44543	Minor W A	42976
Mann W F Jr	44446	Martinez Abreu	47137	Meinander N	44570	Meyer zu Belm	43506	Minshall W H	43623
Mann W F Jr	44497	Martini	43505	Meinsma J J	47296	Weyn A	47844	Minster C H	47347
Manners R A	48648	Martini	47662	Meisner F	48146	Meynard J A	45260	Mir Chamsy H	45685
Manning H L	45121	Martinoli G	42400	Meisner F	48146				
		Martinoli G	42401	Meith H C	44032				
			42402						



Item	Item	Item	Item	Item	Item
Miranda F 42062	Moore J F 43508	Mügge 49076	Nardelli L 45263	Netherlands 42875	
Miranda F 42063	Moore J S 45566	Mühlethaler K 42461	Narwanl C S 48121	Rijksinstituut	
Miranda S 43691	Moore J S 48069	Mühlethaler K 42462	Nash J 47018	voor Rassen-	
Mirasol J J 48147	Moore L A 45012	Muir R M 42673	Nash P 47736	onderzoek van	
Misener A G 45261	Moore L A 45047	Mukherjee R R 47469	Nasso A di 42679	Landbouwge-	
Misner E G 48558	Moore L A 45155	Mukherjee S 47288	Nathanael W R N 43134	wassen	
Missonnier J 46351	Moore P E 47478	Mulder D 42674	Nation H J 46717	Nettles W C 45839	
Mitchell A W 48528	Moore R F 48082	Mulder E G 43941	National Catholic 48631	Neumann M 48071	
Mitchell C J 46401	Moore R P 48118	Mulder F 43845	Rural Life	Neut J H van der 47980	
Mitchell H L 42785	Moore W S 47386	Muldoon H J 47267	Conference	Neuy 46835	
Mitchell H L 47735	Moorhouse S 44964	Mulford T 46571	National Cotton	Nevell T P 47482	
Mitchell J 43899	Moorthy B R 43927	Müller D 42675	Council of	Nevell T P 47483	
Mitchell J W 42669	Mora M 45380	Müller E 42140	America 45904	Nénot A 47839	
Mitchell J W 47862	Morales J O 48559	Müller E 44912	National Farm	New South Wales 47203	
Mitchell K G 45001	Morales 46515	Müller H 46058	Chemurgic	Dairy Products	
Mitchell N 46833	Agacino E 45645	Müller H J 46059	Council	Board	
Mitchell R L 43804	Morales Otero P 44833	Müller K 44836	National Federa-	New South Wales 42876	
Mitchell R S 47610	Morales Otero P 45645	Müller K 44836	tion of Young	Dept of Agricul-	
Mitropol'ski A 46056	Morán B L 44834	Müller R 44448	Farmers' Clubs	ture	
Mitsch G E 43359	Morawski S 44447	Müller von 47664	National Institute	Div of Plant In-	
Mitsch G E 43360	Morcos Z 44835	Müller W 45473	of Agricultural	dustry	
Mitscherlich E 45522	Morell M 44037	Müller-Henne- 44642	Engineering	New South Wales 42193	
Mitscherlich G 49075	Morena N 48397	Mullett R P 45903	National Re-	Dept of Agricul-	
Mitsuhashi G 44899	Moreno J J 47479	Mulliken R M 45262	search Council	ture	
Mittler S 46308	Moretta A 42672	Mulliken P M 46616	Food and Nutri-	Entomological Br	
Mittwoch U 42670	Moretini A 43131	Mumma E 45596	tion Board	New York State 47732	
Mixner J P 44952	Moretini A 43132	Munger H M 42489	Committee on	College of	
Miyamoto K 42380	Morf E 42460	Munger H M 42563	Protein Foods	Agriculture and	
Mlizer D 48781	Morgan E P 48969	Munn M T 48115	Naudé C P 47737	Home Economics	
Moar N T 42006	Morgan R H 46931	Muñoz Taboa- 43810	Naugher R E 48828	New York State 48550	
Moens L 47130	Morgenstern O 49144	Muñoz Taboa- 43869	Naumann W 48495	College of	
Moffett B W 46642	Morgenthaler O 46010	Munro D C 48971	Naunton W J S 48101	Agriculture and	
Moffid C 46120	Morin A 47822	Munroe E G 46547	Nauwerck W 42804	Home Economics	
Möhlmann H 44854	Morin H G 46341	Munter E L 46617	Navellier 47132	New York State 42971	
Moilanen T J 44280	Morison S E 47480	Muntz T G A 48339	Navellier 47245	College of	
Moiseenko F P 44408	Moritz F L 45030	Müntzing A 42526	Nawaz S M 42916	Agriculture and	
Moiseev 44281	Morlan H B 46539	Munusan H Jr 46377	Naylor S 42463	Home Economics	
Moiseev A E 46309	Morley A 47823	Mura D 45703	Nayudamma Y 47930	Dept of Agron-	
Moiseev K V 46057	Morley C 46410	Murakishi H 42290	Neal E E 48479	omy	
Moldavan A 47297	Morley C 46411	Murakishi H 42676	Nearing G G 43361	New York State 44040	
Moldenke H N 42064	Morley C 46412	Murakishi H 43489	Nechaeva R 48404	College of Agri-	
Molfino J F 43692	Morley-Fletcher 48333	Mural F C V 46060	Nedvidek R D 47661	culture and	
Molchanov I 43217	Mornet P 45523	Murayama S I 45381	Neff M S 43693	Home Economics	
Molin K 48621	Morocco Direc- 46910	Murayama T 47429	Neff M S 43694	Dept of Agronomy	
Mollitor C S 42671	tion de l'Agricul- 46910	Murayama T 48400	Négre E 47133	New York State 45033	
Moller Arnold E 43038	culture du Com- 46910	Murayama T 42677	Negri A 47738	College of Agri-	
Momberg- 45295	merce et des 46910	Murayama T 43154	Negri G 47738	culture and	
Jørgensen H C 43039	Forêts 46910	Murayama T 45893	Negrul' A M 43218	Home Economics	
Monaci M 47430	Div du Com- 46910	Murphy L C 48701	Nehring K 47990	Dept of Agronomy	
Moncada F 47549	merce et de la 46910	Murray M S 42678	Neirynck T 47476	Newberry W 48829	
Moncade G 46468	Marine Mar- 46910	Murthy S N K 48826	Neiswander R B 45905	Newcomb E H 42680	
Moncrieff R W 47473	chande 46910	Muscatoello G L 49096	Neitzke C 46643	Newell P F 45034	
Moncrieff R W 47474	Moroney C J 48148	Muse M 46152	Nekrasova O N 48308	Newell P F 45204	
Mondin G F 48521	Morrey J S 42980	Musgrave A 43061	Nell W 44837	Newfoundland 48972	
Monfort F 47475	Morris D M 45524	Musgrave A M 47665	Nelson A A 45855	Dept of Health	
Monfort F 47476	Morris H A 47348	Mustard M J 46061	Nelson B 48927	Newhall A G 44226	
Monnier C 44036	Morris L 45595	Muzin V N 45031	Nelson C E 42190	Newlin G M 46718	
Monnier R 46784	Morris R B 48070	Myatt A C 46378	Nelson C E 42745	Newport C A 44324	
Monod T 49113	Morrison G 43509	Myburgh A C 46378	Nelson H 42872	Newton A 42575	
Monrós F 46227	Morrison L 42329	Myers H E 43941	Nelson L 48622	Newton H P 43805	
Monroy F T 42303	Morrow E B 42255	Myers H E 44039	Nelson R 48405	Newton J D 44217	
Monseratt J 47131	Morse T D 42977	Myers W I 47692	Neporozhnyi G D 43162	Newton J T 47594	
Monserro F B 42870	Mortensen T 48591	Myers W I 48310	Neril N 46785	Newton M A 47289	
Montaldo B A 43507	Morton G 44746	Myers W I 48401	Nesbit W B 46640	Newton P J 48830	
Montalti M 44832	Moscoco 47481	Myers W I 48402	Nesbitt L D 47739	Newton W 42194	
Monteiro G V 48395	Mosera A M 46941	Myers W I 48827	Nestervodskil' 46062	New York Agri-	
do S 41979	Moser H A 47957	Myers W I 49079	Nestmann A 45631	cultural College	
Montelucci G 42065	Mosle H B 44965	Myers W M 43009	Netherlands 42873	Neznaev M F 44144	
Montelucci G 42403	Moss J L 48240	Myers W T 49077	Rijksinstituut	Niagara Frontier 47268	
Montelucci G 42404	Mosti A 43133	Myraker L E 48560	voor Rassen-	Cooperative	
Montgomery G 46967	Mota F S da 44038	Myrdal A 46911	onderzoek van	Milk Producers	
Montgomery G A 45029	Motheral J R 44138	Myrick N 47349	Landbouwge-	Bargaining	
Montmagny C de 45594	Motte P 44966	Nabokov V 46469	wassen	Agency	
Moody E G 45125	Moulthorpe I M 45525	Nadeau J P 47171	Netherlands 42874	Resolutions	
Moomaw M R 47266	Moulton J E 43567	Naegelf F K 45032	Rijksinstituut	Committee	
Moorahrend 48306	Moulton J E 43568	Nafthali J 42192	voor Rassen-	Niblett M 46310	
Moore A C 46834	Moutte P 45286	Nageotte J C 45126	onderzoek van	Nichols M B 45205	
Moore A S 47477	Moya D R 45802	Nantel A 45382	Landbouwge-	Nickell L G 42373	
Moore C H 48396	Moyle R E 48970		wassen	Nickell L G 42374	
Moore E L 47663	Mozzhukhin A A 48497			Nickels C B 46228	
Moore H I 44742				Nickels C B 46471	
				Nickerson J T R 46932	
				Nickerson W J 45909	



	Item		Item		Item		Item		Item
Nicolaisen N	43510	Northern Ireland	46733	Oglan N J	44673	O'Rourke E N Jr	43693	Paralingaux P	47304
Nicolaisen N	43511	Ministry of		Ogur M	42464	O'Rourke E N Jr	43694	Paramonow S J	46313
Nicolas F	45127	Agriculture		Ohe v d	45123	Orsat C O	42197	Parfensuk A	46787
Nicolini G	43360	Northrup H W	46596	Ohle R L	47166	Orser W B	46516	Parquey	47747
Nicolls J	46063	Northwest Bulb	43363	Ohle R L	47167	Orthmann K	42979	Parquey G	44701
Nielsen A	46548	Growers Association		Ohlson N E	46719	Ortiz Garmendia	44745	Parish F J	44154
Nielsen L T	46343	Northwest Wood	14596	Ohtani Y	42465	J		Parish F J	44155
Nielsen V H	42527	Products Clinic		Ojert R	48408	Orloff H S	43371	Park T	46232
Nienaber H	44041	Norton E A	43933	Okanagan Agri-	43101	Orton E C	43372	Parker E R	42359
Nienaber-Loy	48496	Norton J B S	43364	cultural Club		Orue J	45523	Parker J	44477
Nieschlag	44042	Norton L J	48241	O'Kelly J F	42917	Orwin C S	48202	Parker J S	48995
Nihon Engel	43512	Norway Statens	47740	Okkels S	46812	Oser J	48411	Parker M E	47350
Chuo-kai		Kornforretning		Ökonomische	46586	Osguthorpe J E	42799	Parker R	44336
Nikitin N A	46064	Norway Statens	48116	und Gemein-		Osman Bey	47484	Parker R R	46155
Niklas	46968	Landbrukskjemiske Kon-		nützige Gesell-		Abaza H E		Parkman S B	42858
Niklas W	44383	trollstasjon		schaft des Kantons		O'Steen A W	45566	Parks T H	46381
Niklas W	47821	og Frøkontroll		Ökonomische und	48654	Østergaard J	43373	Parlagreco A	48267
Niklas W	48309	Norway Statens	45857	Gemeinnützige		Østergaard P S	44941	Parnas J	44842
Niklasen Y	44317	Plantevern		Gesellschaft des		Ostergren G	42467	Parnas J	45785
Nikuliskil I	46644	Norway Statens	46262	Kantons Bern		Osuna P	46413	Parrish D B	45125
Nilan R A	42528	Plantevern		Oksa E	44549	Osvald C V	43669	Parsons F	48117
Nilson A	47204	Noskov P	44744	Olberg	44449	Otsuki M	48412	Parsons F	48118
Nilsson F	43100	Novazzi G	45128	Olden E J	43164	Ott G L	45305	Pascoe T A	44643
Nilsson F	43163	Novelo López	45526	Olds D	44967	Ott T	48931	Pasfield D H	46813
Nilsson G	47246	A M		Olds D W	47769	Otten E	44841	Pass H	42822
Nilsson P E	42195	Novikov A	44425	Olenev N O	46153	Otten E	45265	Passmann B	44325
Nilsson P E	43906	Nuotio J	44680	Olenev N O	46131	Otten E	45266	Pastorini F M	43935
Nimkar M V	47491	Nye N C	45340	Olenius L	44412	Ovchinnikov I	45433	Patel M K	42349
Nimmo C C	47678	Nye P H	43934	Olive L S	42141	Overbeck H	45383	Paterilo G A	42305
Nishijima S	47429	Nygaard J	44361	Olive L S	42466	Oversack J	43696	Paterilo G A	42306
Nishimura S	42465	Nyholm I	43365	Oliveira B de	48409	Owen D F	46474	Paterilo G A	42307
Nithchals R M	49000			Oliveira E N	42877	Owens J B	47693	Paterson R	42309
Nivromont P	47863	Oakley J	48119	dos S		Owens J M	44580	Paterson R	42980
Nix M	46507	Oates W J	46750	Oliveira L M de	43695	Oxford University	48932	Paterson R	44746
Nixon H W	47661	Obaseki J K	44672	Oliveira S J de	46312	ty Agricultural		Paterson R	46836
Noble G L	44211	Oberhagemann W	44043	Oliver Mrs P	43366	Economics Research		Patissier J	43518
Noble M	45669	Oberhelman L	44838	Oliver R W	43367	search Institute		Patrick T E	44955
Noble N M	45264	Obrozov	44281	Oliver R W	43368	Oye P van	42118	Partridge C W H	42778
Nofztger S A	45432	Obraztsov N	46472	Oliver Diaz R	47665			Patrie C R	44337
Nogyo Fukko	48632	Obrelli A	43513	Oliveros S B	43040			Patterson D C	47678
Kaigi		O'Brien C H	48149	Oliver P	46619	Paarlberg D	48258	Patterson E K	46314
Nolan F L	46854	O'Brien H R	46882	Olmo H P	43091	Paauf F van der	44045	Patterson M E	43530
Nolan F L	49097	Obrig G	44579	Olphen H van	43307	Paauf F van der	44046	Pattison B P	47864
Nolling A W	47611	Ocampo O Z de	48973	Olson H A	46380	Paauf V van der	43808	Patton E L	44664
Noll C J	43516	Ocfemia G O	43625	Olson E M	45652	Packman D J	46720	Patton J B	44251
Noonan J C	42777	Ochs G	46230	Olson P J	43626	Pacit J	42684	Patton M B	48981
Noordhoff L J	46746	O'Connell E J	48523	Olson P J	42683	Padberg K	48561	Pauer O	47460
Norby B	42723	O'Connor B A	45910	Olson W J	47733	Paddock E F	42530	Paulay S S	42688
Nordström O	48522	O'Connor B A	46379	Olsson K	49042	Paden WR	42918	Paulson W E	48831
Norén O	46672	O'Connor R T	47991	Omaha Grain	45474	Pagan C	42619	Paumier R	48975
Norinsho Kambo	48406	Odene L	43514	Exchange	47741	Page S L	48633	Pausch A	43376
Chosaka		Odland M L	43515	O'Malley E	48974	Paguirigan D B	43517	Pavan C	46266
Norman P A	46164	Odland M L	43516	O'Mara J G	42529	Pahlman A	43165	Pavari A	42067
Normand A	45252	O'Donnell T	44120	Omura H	42789	Pain G	46154	Pavari A	44426
Normand H	46229	O'Dwyer J J	47007	O'Neal A M	43746	Paisley T	47788	Pavlik M	43846
Normand J	44360	Oehme B G	46231	Onell J B	45597	Palacios Albi-	45406	Pavlov E F	45625
Norris L C	45460	Oekonomische	42796	Ono Y	44839	ñana J		Pavlov V D	46680
North Carolina	46941	und Gemein-		Onuki A	47429	Palacios Albi-		Pavlovskiy E N	45412
State College		nützige Gesell-		Ootani Y	47066	Palamarchuk A S	42531	Paxton R	47298
Institute of Sta-		schaft des Kantons		Ophuls F	47067	Pallier G	42135	Payne L	45475
tistics		Bern		Orbeck K	48165	Pallwal R L	42468	Pearce J A	47931
North East Development	48605	Oekonomische	44415	Orcutt E P	47825	Palkin V P	43739	Pearce S A	43377
Association		und Gemein-		Orensanz Moline	44963	Pallesen L	43166	Pearson C E	43073
Land Classification		nützige Gesell-		J		Palm C E	45911	Pearson F A	47692
Committee		schaft des Kantons		Orensanz Moline	44969	Palmer C M	41930	Pearson F A	48310
		Bern		J		Palmer E	42066	Pearson F A	49079
Northcraft R D	42681	Oekonomische	45197	Orfila R N	46473	Palmer G F	43627	Pearson G A	42729
Northern H T	42682	und Gemein-		Orfila R N	49078	Pálsson P A	45228	Pearson G A	44427
Northern R T	43362	nützige Gesell-		Organisation for	44532	Palti J	45704	Pearson J K L	45130
Northern Ireland	48407	schaft des Kantons		European Economic		Pan American	46786	Pease A S	49080
Ministry of Agriculture		tons Bern		Cooperation		Union	48413	Peat S	46924
		Oekonomische	45398	Organisation for		Div of Economic		Pechnik E	47136
Northern Ireland	43219	und Gemein-		European Economic	47992	Research		Peckinpah R L	45341
Ministry of Agriculture	43624	nützige Gesell-		Cooperation		Panders A	42262	Pedersen H A	48634
		schaft des Kantons		Food and Agriculture		Panhuyzen J A	48928	Pedersen R	45316
Northern Ireland	44743	Bern	45732	Committee		Panigrahi G	42685	Pederson C S	47666
Ministry of Agriculture		nützige Gesell-				Pannekoek G J	43374	Peele F E	45598
		schaft des Kantons		Organization for	42121	Pannekoek G J	43375	Peens J F	43052
Northern Ireland	45737	Bern		Scientific Research		Panova V V	42532	Peer R	43378
Ministry of Agriculture		Oelofsen O N	42196			Pans H M	44385	Peerikamp P K	43740
		O'Flaherty F	47888	Orizet	47134	Pantaléon J	47839	Peeters F J	46065
		Ogbe G A E	48606	Orlicz T	44571	Paoletti V	48833	Peikert F W	46739
		Ogg Sir W	44044	Ormond R B	44840	Paolis D de	42686	Peirce A W	48976
				Ormsby H R	48410	Paolis D de	42687	Pejoski B	44662
						Papai M J	43102	Pejoski B	44663
								Peleev A	47918



	Item		Item		Item		Item		Item
Pellet F C	45956	Pfimlin	45704	Poignant P	42576	Price H H	48973	Ragotzkie R A	47612
Pellet M	42981	Pfimlin P	48414	Poiarvi I	42747	Price W A	48980	Ragsdale A C	45068
Pena Márquez J	44900	Pflug S C	46156	Poisson J	47839	Price W A Jr	45481	Ragué Mir J	44514
Pence H B	46620	Pfranz	42806	Polak B	43718	Price W C	42620	Raible K	47111
Pence J W	47743	Pfrang H	47485	Polentz G	46235	Prieausser G	44480	Raimo H F	45435
Pendergrast	46382	Pfrieme W	46969	Poletiko O M	43380	Prieshof	44970	Raimo H F	45178
J G		Phelps F T	45342	Polezhaev L V	49043	Priesner H	46550	Raineri C	49133
Peng C Y	43909	Phelps F T	49081	Polhemus M S	46068	Priesner H	46552	Raithby G E	44984
Pennington M E	47065	Phifer B M	44049	Poli A	44329	Priesner H	46552	Raja S	47827
Pennsylvania	43074	Philadelphia	47269	Poliakow A A	44844	Priest C S	47670	Rajapakse G	43632
Dept of Agri-		Milk Marketing		Poliakow D K	44845	Principi G	43382	Rajya B S	45436
culture		Area		Polfanovskii V N	48483	Principi P	43960	Rakshpal R	46381
Pennsylvania	45599	Philadelphia	47307	Polnar M	44345	Prisfahznfuk P	43041	Ralston H	43385
Dept of Agri-		Milk Marketing		Poltev V I	46069	Pritchard A E	46157	Ram A	47994
culture		Area		Pomaranov S F	43104	Pritchard N T	47270	Ramakrishnan M	45140
Bur of Markets		Phillip B	47486	Pomeroy B S	45529	Procter C	43522	Ramanujachari	44848
Penny J M	42982	Philipp H	45759	Pompa A	47206	Procter Mrs R	43383	G	
Pentzer W T	47630	Philippis A de	42405	Ponchet J	42310	Prodn M	43082	Ramaswamy M	47469
Pepper B B	42815	Phillipson W R	43379	Pond V	42538	Proebsting E L	43167	Ramming A	43224
Pepper B B	46342	Phillips E E	43519	Ponsignon A	45600	Prost E	47919	Ramon G	44849
Pepper W F	45482	Phillips F R	46970	Ponte A M da	43631	Proulx J R	45723	Ramona R de	47745
Pequena Propie-	48835	Phillips G W M	47921	Ponting K G	47489	Proust R	48242	Ramos F T	45479
dad Agrícola de		Phillips J R	48562	Popov B A	46683	Prudent I	48031	Ramos M J	46476
la Comarca		Phillips R C	48015	Popov V V	44450	Prügelhof F	45530	Ramsauer B	43741
Lagunera		Phipard E	46941	Porte E	45136	Pruski A	45782	Ramsbottom J M	47920
Péquignot R	42878	Placco R	42879	Porter A	46139	Prvor M R	43652	Ramsfjell T	42201
Pequignot R	48497	Pic M	46233	Porter C L	42311	Puccini G	42070	Randall C G	43633
Peral A da S	45913	Pic M	46231	Porter C R	48119	Puckett E N	48839	Randall G O	43386
Percival G M	47326	Piccarolo G	44428	Porter D D	42524	Puddle F C	43384	Randall J T	45662
Péres G	45132	Pichi-Sermolli	41981	Porter G	47669	Puig J B	47493	Randell C G	47866
Perez Aguilar R	45132	R		Porter H F	43381	Pujiula P J	42142	Rando G C	44157
Perez Catan E	44901	Pick F	45527	Porter P R	48445	Pukhal'ski A	42807	Randolph L F	42071
Perez Mateos	43810	Pickens E G	46155	Portères R	42880	Purdue Univer-	46897	Raney W A	48841
J		Pickett W F	42690	Porterfield I D	46837	sity		Rao D S	45816
Perez-Salas J	44047	Pied O	47922	Portnova N T	45300	Agricultural		Rao L S P	42539
Pérez Villalba O	47137	Plekarski G	44841	Porritt S W	47668	Extension Serv		Raper A F	48592
Pergolani de	42198	Piel-Desruls-	48311	Porsche G	47490	Purdue Univer-	46897	Raper J R	42693
Costa M J I		seaux J		Porsild A E	42007	sity		Raper L E	48842
Permanne R L	45133	Piel-Desruls-	48500	Portugal	48930	Engineering		Rapin J	42936
Perminov T A	45385	seaux J		Ministério das		Extension Div		Rappe G	43812
Perotti R M	45476	Piepho H	46475	Financas		Puri G S	42407	Rasni'sh A P	42072
Perpétot H	47008	Pierce F O	48182	Poschinger	46236	Pur A	47995	Rasmussen A O	48705
Perron A	45232	Piercy S E	45135	F von		Purvin' P I	44481	Rasmussen C R	43523
Perronne P	43103	Pierce Z H	48945	Poschinger	46237	Pusch	44272	Rasmussen M	46572
Perry A L	47601	Pleron R	48119	F von		Putkisto K	44561	Rastall S H	45288
Perry J	47667	Pietrogrande Z	46788	Post J J	42312	Putnam J A	44386	Rasten J	42808
Perry G S	48635	Piggott J	45632	Postal D	44748	Pyl G	44854	Ratchford C B	48501
Perry T D	44616	Pijuán M	45477	Postal D	47550			Rathbone R B	44102
Perry T D	44693	Pike H	48312	Potapenko I A	43223			Ratneau J	48415
Persi R	42983	Pilatovich Z	42984	Potgieter M	47606	Quackenbush	42625	Ratliiff P	48268
Persi R	46383	Plicher H L	48995	Pottenger F M Jr	44846	F W		Ratnikov A	46071
Personius C	48968	Pilet P E	42691	Potts R C	42959	Quadri P	47308	Raubach M	43768
Persson A R	49132	Pillai S M	42897	Potts R C	42962	Quaranta P	45138	Raur C	42470
Persson B	46066	Pillans N S	42068	Potts W M	47943	Quatrefages H	44852	Rautenberg H J	46072
Pervukhina N V	42469	Pinnell D S	47299	Potyra A	45137	Quattlebaum V K	46748	Rautenberg M	48131
Perlmayer F W	45434	Pinstrup H	48214	Potzger E	42406	Queensland Bur	43042	Rautenberg M	48593
Pesce P A	45287	Pinto A	44338	Potzger J E	42406	of Sugar Experi-		Ravanti T	43596
Pestov P A	48493	Piovano G	42069	Potzger J E	44362	ment Stations		Ravenholt A	48416
Petermann R	47205	Piper W E	47595	Pou J W	48564	Quensel C E	48623	Rawlings H W	46931
Petersen C F	46831	Pires F F	43031	Poul J	45267	Quentin R M	46316	Ray S	47288
Petersen D H	42309	Pirovano A	43222	Poulson D F	46315	Quézel P	46251	Raymond C B	43077
Petersen F H	45296	Pirt S J	46924	Poundstone B	47387	Quick M	48840	Raymond C B	43524
Petersen F H	45297	Pirzada A S	47487	Poupinel H	46789	Quig J B	47494	Raymond M	48184
Petersen H I	43629	Pisano V E	44478	Pourtet J	44479	Quigley G D	46553	Raymore H B	43371
Petersen N	48499	Pisarenko A P	48102	Powell D	42254	Quigley G D	46647	Razous P	44482
Petersen W E	45134	Pisek A	47221	Powers J P	47068	Quinby J R	48004	Rea J	48706
Peterson C E	46747	Piza J E	42985	Pozo C del	42986	Quinteros M	44212	Read F G	42202
Peterson E A	42281	Piza S de T	46517	Praeger R L	42008	Quirino E	44298	Reading England	49134
Peterson G	48836	Plank G M	45206	Praetorius	47140			University	
Peterson G A	48072	van der		F F K		Rabanal Luis	44749	College	
Peterson K D	47744	Planque B A de	41982	Prall F E M	43520	M		Rear J C	47671
Peterson W B	48837	Plant W	43911	Prakash B	47994	Rabuffo V M	47207	Reath A N	43545
Petitpierre A	48929	Plasse J B v d	42692	Prakash O	47994	Rackow H G	45139	Reaves P M	46702
Petrosian A A	43161	Plate R	47865	Prance B	48938	Rada E L	48183	Reber E	45786
Petrucchi E	47937	Platova A D	47483	Pankratov A	45384	Radeleff R D	45909	Rebiffé	48707
Petrucchi V E	42689	Platt R	43630	Pratolongo U	47141	Rademacher B	42313	Rebiffé J	42694
Pett L B	43013	Plaxico J S	48563	Pratt A J	43521	Radford C D	46158	Rebiffé J	42881
Petter F	44843	Pletneff P	46546	Pratt H D	46549	Radford J	45803	Rebour J	48750
Pevnev D S	44156	Plouvier V	42779	Pravdin L F	43075	Radkevich P E	44847	Recasens L de	47142
Pew W D	43530	Plummer K V	46971	Preclado C A	43076	Radley J A	46933	Rechinger K H	42073
Peyer E	43220	Podgorodetskiy	45520	Preller J H	42987	Radomski J L	45846	Reda H	45705
Peyer E	44048	N P		Prescott G W	42119	Rads spinner W A	47650	Reddy D B	46238
Peyer E	47138	Pod'lapol'skaya	46067	Preston J M	47491	Rafyi A	45689	Redit W H	47552
Peynaud E	47139	A		Pretorius W P	47737	Raghavacharia K	46790	Reece P O	44533
Peyronnet R	43221	Podlegaev M	48073	Prevo A	46646			Reed A	48418
Pladt R E	46334	Poignant P	42200	Prewitt R C	44239				



Item	Item	Item	Item	Item
Reed A D 48528	Rice W H 45601	Roberts R H 42732	Rosborough J F 43250	Rudakov K I 43849
Reed A D 48529	Rich S 42314	Roberts R H 42733	Roscoe C 45480	Rudakov K I 43850
Reed A D 48530	Richard H 44036	Roberts S R 45269	Rose D H 47071	Rüdiger W 42473
Reed A D 48531	Richard H 44036	Roberts Sir W 48419	Rose D H 47552	Rudis L A 45271
Reed A D 48533	Richards D F 48243	Robertson R N 42753	Rose F 42078	Rudolf P O 44429
Reed A D 48536	Richards L A 43742	Robertson T C 44215	Rose G N 47693	Rudolfs W 47612
Reed A D 48539	Richards P 43813	Robinet A H 45706	Rose O S 46621	Ruehe H A 47211
Reed C F 42203	Richards P 47208	Robinson D 46721	Rosella E 46621	Ruffin W A 45916
Reed H W 45313	Richardson 45760	Robinson D H 43698	Rosella E 42208	Ruggieri G 42272
Reed H W B 46289	Richardson E C 45616	Robinson D M 47923	Rosella E 42315	Ruggieri G 42317
Reed J 44227	Richardson E M 44724	Robinson H E 46810	Rosella E 42386	Rul D 45917
Reed J M 47069	Richardson R 44397	Robinson J 42658	Rosella E 43527	Rula M R 47500
Reed O E 44971	Richman B F Jr 47999	Robinson R 45634	Rosen G U 42464	Rulz Alarco 44364
Reed O M 47271	Richaud M 43525	Robinson W B 47666	Rosen H R 42209	F E
Reed P G 42203	Richel C 42312	Robitaille P 48420	Rosenberg H 46074	Rullen V H 45344
Rees A D 48636	Richens R H 42533	Robotka F 48841	Rosenberger H T 47034	Runge S 45145
Rees D M 46343	Richmond R 46883	Robustelli G P 48607	Rosenbusch C 44855	Rupp E 44052
Reese M J 49100	Ricker W E 46554	Robyns W 42077	Rosenstiel R G 46480	Rupp E 44976
Reeves R G 42471	Ricketts V L 47867	Rocasolano C 47070	Rosenthal M H 47233	Rupp E 45036
Refatti E 42204	Riddle M 45230	Rocchetti G 43719	Rosenthaler L 46934	Rupp H M R 49085
Reger J V 47255	Rieben E 44519	Rocha G L da 45216	Rossi F A 44856	Ruppel R F 46359
Rego J B 43697	Rieck H H 45602	Rocha G L da 45478	Rossi L 42210	Ruschel E 44053
Rehm R A 46518	Rieder R M 47921	Rocha Garcia 44859	Rossini R 46793	Ruschel E 46082
Reich C 43225	Riedl W 47152	de la 44859	Rossiter R C 42701	Rush J D 48269
Reichel J 46477	Rieman G H 43526	Rocha Garcia 44859	Rosmalen W C 45142	Russell E W 43818
Reid I G 48565	Riera F J 42696	de la 45290	Ross H S 43528	Russell E W 44051
Reid J D 46947	Ries L W 48595	Rochmann R 45317	Ross L S 45231	Russell M 45724
Reid W 46478	Rieth 44299	Rochmann R 47690	Roswall G 46075	Russell R S 43819
Reidpath A C 47033	Riewe M E 42989	Rodale A A 43389	Roswall G 47789	Russell S F 47868
Reif E O 47996	Rigatelli G F 44606	Rodary 44387	Roth H 42534	Russell W C 45481
Reiffenberg A 44213	Rigby F L 48185	Rodenwald Z F 45992	Rothaas A 47790	Russell W C 45486
Reiff R 47746	Riggs J K 45035	Rodionenko G I 44159	Rottenburg G 48417	Rust I 48846
Reiley H A 47551	Rigotti R 43169	Rodney D R 43170	Rothermel 46860	Rust I 48847
Reinau E H 43847	Rigotti R 43226	Rodon J M 44702	Rothfels K H 46519	Rust I 48848
Reinbold G W 47300	Rijcke E de 42882	Rodrigues F G 44051	Rottböl 42990	Rust I 48849
Reineke L H 44581	Rijssen A van 43766	Rodriguez J 43736	Rottensten J 42722	Rust I 48850
Reinmuth P 44617	Riker A J 42206	Rodriguez J 47953	Rottensten K 44974	Rustia A 42702
Reis H 42408	Riker A J 42351	Rodriguez Lopez 44216	Roubaud E 44857	Rutherford C I 46481
Reitsma J 42205	Riley J P 48000	O V 43720	Roulet M A 43816	Rutherford G C 45670
Reitsma J 42350	Rimberger G W 44972	Rodriguez 43720	Roundtree B 42991	Rutherford J 49114
Reitz H J 47573	Rinaldi A 42075	Muñoz C 42472	Roundy H 46076	Ruttan R D 43636
Remaley R J 47351	Rinaldi A 42409	Roelofsen P A 45707	Roundy R A 43000	Ryall A L 47617
Remlinger P 44851	Rinaldi A 42410	Roemmele O 45708	Rousek E J 45207	Ryall A L 47658
Remington C L 45817	Ringler W E 44084	Roening L 48845	Roussy L 46077	Ryall A L 47672
Remington J S 47997	Ringler W E 44235	Roepke W J 45502	Routien J B 42143	Rycke E de 42993
Remo T 46159	Rings R W 47605	Rof Codina J 44232	Rouy H 47894	Ryker D E 48852
Rempel J G 46278	Rios E G 43901	Rogalski L 45141	Rouzès G 44858	Ryker T C 43637
Renaud J 47143	Rios R M 47748	Rogers B E 47657	Rovsky V M 42316	Ryker T C 43638
Renaud M 43135	Rioux J A 46251	Roger N F 47921	Rowan H M 46078	Ryndin N V 43136
Renius W 42988	Ripado M B 43814	Rogers C E 44645	Rowan M 46301	Ryon L H 47869
Renjhen P I 46317	Ripado M B 43815	Rogers G A 49083	Rowbottom J D 48562	Saakov S G 42703
Renner F 43105	Ripado M B 43634	Rogers J S 44061	Rowe R J 45640	Saakov S G 43391
Reno J 46685	Riple P O 45268	Rogers J S 44659	Rowland H B 44504	Sabardina G S 42009
Renoux G 44852	Ripps J H 45268	Rogers J S 47921	Rowland J W 42992	Sabrosky C W 46319
Repp G 43936	Risbec J 46319	Rogers J V 44339	Rowley G D 43390	Sacco P 43699
Repsold K 47747	Risher F W 48074	Rohlf J A 46239	Rowsell J 47828	Sacco P 44161
Reshetnikov S 46104	Riso R 47498	Rohmeder E 44483	Rowson L E 45143	Sack W 46622
Rett L 42780	Risto R 47499	Rohmeder E 44484	Roy H N 45144	Sadot M 45365
Reuther C G Jr 47998	Rist C E 47079	Rohmeder M 44485	Roy J B 45532	Sadovskaya L i 45528
Reuther W 42635	Ritchie D 42697	Rohmeder M 44485	Roy J B 45533	Saeland J 44977
Reyes D 48203	Ritchie M 42781	Röhner H 44854	Roy J B 45603	Saeland J 45671
Reyes P 47352	Ritschl A 46479	Rohwer R A 48596	Royal Dublin 45738	Safonov S 47921
Reynolds D M 45468	Ritter E 47388	Rol R 44363	Society 45738	Sagaldak I N 43529
Reynolds E B 43961	Rivas Tagle A 46660	Roldan R S 46073	Royal Institution 46573	Sager O S 47344
Reynolds E D 47495	Rivera W 47639	Roll-Hansen J 43078	of Chartered 43106	Sager O S 47364
Reynolds F 45343	Rives E A 47749	Rollins H A 41983	Surveyors 44273	Sahal L 45146
Reynolds G W 42074	Riviere J 47922	Rollins R C 41983	Royce R D 42079	Sahner W 47147
Reynolds H W 42385	Rizzini C T 42076	Rolsted M 44273	Royston R 47089	Sala F 48608
Reynolds O R 45633	Roach F A 43227	Romanini A 44160	Rozentreter N A 42883	St Quentin D 46555
Reynolds P A 46792	Roark C 44158	Romano E 48001	Rozhdestvenski 46079	Saint-Quentin M 42919
Reynolds Q 48777	Roark C 44902	Romanov A A 44274	K M 46080	Saint-Quentin M 45386
Reynolds Q 48843	Roark R C 45915	Romashkin N 46692	Rozov S A 44975	Saint-Quentin M 47871
Reyntens H 44026	Robb T R 45531	Romborg L D 43249	Ruatti G 46794	St John W K 47273
Rezende J 47496	Robb T R 46385	Romell 44317	Rubia Pacheco J 43755	St Joseph Stock 47870
Rheinwald H 48708	Robbins W J 42698	Römer R R 45437	de la 43635	Yards 47925
Rheinwald H 48709	Roberson F K 43387	Roncera F 43635	Rubia Pacheco 43817	Saint-Priest P 47925
Rhodes R B 46739	Roberson L N 46870	Ronchi V 49084	J de la 43229	Saito K 45147
Rhodes N 47629	Robert J 44853	Rönnevig G M 47209	Rubin S M 46081	Saito T 44055
Ribereau-Gayon 47144	Roberts A N 43388	Rooney W F 45438	Rubtsov E I 45318	Sakaguchi G 47429
J 47144	Roberts F C 43228	Rooney W F 48538	Ruch L A H 47146	Sakamoto H I 48173
Ribi E 47497	Roberts F J 47145	Roosenschoon 47210	Rucker H 47146	Sakk K 44248
Riccioni V 48594	Roberts J B 47309	C F 47247	Rudakov K I 43848	
Ricci A 43168	Roberts J E 44061	Rosati T 47247		
Rice W E 44214	Roberts R H 42699	Rosberg D W 42207		
	Roberts R H 42700			



Item	Item	Item	Item	Item
Sala F 46083	Sayre C B 43530	Schnitzer J G 47831	Scott H W 46415	Shaw J 45606
Sala F P 46482	Sayres P 46912	Schoenaers F 45239	Scott I 45407	Shaw J C 45155
Sala Catala F 47952	Sayres P 46973	Schoenaers F 46160	Scott L E 44058	Shaw J H 47503
Sala Roca E 44162	Sayres P 46974	Schoene F 48713	Scott P 44252	Shaw J H 47503
Salazar Mouliat 48614	Scalliet B L 47706	Schoene W 45536	Scott R A 42477	Shawarbi M Y 47504
Z	Scamoni A 44366	Schoening H W 45769	Scott W 48124	Shay F M 48861
Salé C O 44978	Scamion J J 48077	Schoening H W 45805	Scott W M 47230	Shcherbina P S 46091
Saletore S A 48002	Scaramuzzi F 42424	Schofield J A 44589	Scottish Machinery Testing Station 46618	Sheffrin F 46953
Saldarriaga L M 47829	Scaramuzzi F 43700	Schofield R K 43743	Scotton M 46624	Shelton D 43252
Salkeld E H 46084	Scarseth G D 43862	Scholnik E H 48859	Scoville G P 48566	Sheldon V L 42783
Sallustio C 42411	Scarseth G D 48502	Schopfer W H 43816	Scoville G P 48567	Shellabarger C J 45538
Salmon W D 42704	Schaad B 49000	Schopper A 45387	Scoville O J 48503	Sheilaby R K 47505
Salmon W D 45270	Schaas M A 47895	Schott R G 44979	Scudder W T 42711	Shellenberger J A 42885
Salomon L 45162	Schaefer A E 45270	Schouppé K 45149	Scully R M 44059	Shelley R W 43937
Salomon R 44618	Schaefer E E 42211	Schouppé K 45388	Seabra A N 48150	Sheldon D 43252
Salter R M 43639	Schaefer- 46795	Schrader F M 46954	Searle P K 44264	Shepherd E 47354
Saltman P 47564	Kehnert 44300	Schrader O H Jr 44619	Sears R D 42322	Shepherd G 47035
Salvador A N 47148	Schaeffer C O 47290	Schrader R S 44057	Sebolt H C 45150	Shepherd W 46092
Salvador y 47149	Schaeppi H 42475	Schrank A R 42710	Secrest J P 45852	Sheppard C C 48035
Ascaso J M 45439	Schäfer A 45761	Schreiber M 44784	Seebor W 47753	Sherman B B 43396
Samat M 48075	Schaffner J V Jr 46483	Schreiber W R 47553	Seedorf W 48423	Sherman F G 42616
Samat M 44163	Schaper G 45535	Schreiber W R 47551	Seefeldt F C 46975	Sherman F G 42715
Sampietro G 48711	Scharf R A 48244	Schretzenmayr H 42414	Seeley J G 42712	Sherriffs W R 46161
Sample G W 48711	Scharschmidt E 46722	Schreven D A van 43820	Seeley J G 42713	Sherwood R M 44752
Samson A 48314	Schauder W 45709	Schreder 42884	Seelye F T 43157	Shewell-Cooper W E 43108
Samuelson A 48853	Schauer H 43531	Schröder M 48317	Segall R 42323	Shields C 45319
San Diego Cooperative Poultry Association 45604	Schaus R 45918	Schröder W 46087	Segalove M 47845	Shimizu A P 44487
Sanborn L D 48076	Schaus R 49116	Schröder- 46693	Segerpalm S 47791	Shimizu A P 44487
Sanchez R J 47750	Schedl K E 46240	Etzdorf M 46693	Segler G 46694	Shin Nippon 45209
Sanchez Calvo 43866	Scheelase 46871	Schroeder C A 42628	Séguy E 46320	Shikusan Kyokai 45209
M del C 44859	Scheffer F 44056	Schroeder L J 47353	Séguy E 46321	Shinchinskil N V 43397
Sanchez Hernandez F 46344	Scheffer T C 44643	Schroeder W T 42213	Séguy E 46322	Shirk A U 46976
Sanchez N R 44365	Schelber J 48003	Schroeder W T 42375	Seibold D 45408	Shirley A R 44664
Sancho A D 48315	Schember V E 42959	Schroeder W T 44226	Seise A 46695	Shishelova N A 42351
Sandblom D 48315	Schemel M P 41984	Schröter A 44862	Seki S 43394	Shkuratenko Z V 42479
Sanders F 48855	Schempp 44588	Schröter A 45389	Selbo M L 44620	Shoshin A A 42995
Sanders H G 45208	Schenk P J 42212	Schubart O 46414	Sell J 45151	Shoshkes M 48986
Sandford J C 45647	Schenk P J 42320	Schubert G H 44459	Sellon F 44505	Showalter A M 43532
Sandifer T N 48316	Scherotzki 44164	Schubert J H 46539	Semenenko V I 46090	Shterengov P M 44488
Sando L G 48981	Scherr G H 42706	Schuffelen A C 43821	Semenov N V 46416	Shturmova V S 43767
Sanif S 44674	Scheurer E 48982	Schulenburg A F 44431	Sen M R 45152	Shultis A 42935
Sankey J H P 46124	Schiavetti V 44165	Graf v d 44790	Sen M R 45390	Shultis A 48530
Sannikov V S 43171	Schleifer H F 47502	Schulte-Kellinghaus O 49086	Sen S N 47926	Shurapei G 44903
Santa Maria H C 42319	Schlemann R 47990	Schultes R E 49086	Senchurov K 44535	Shurly E 42463
Santhanam V 42488	Schlessner A 43833	Schultz D G 45334	Senchurov K T 44340	Shurly E 43398
Santhanam V 42897	Schiff L 44166	Schultz J 46320	Senni L 43701	Shuttleworth D 48507
Santos E 42920	Schild E 47151	Schultz T W 48204	Senze A 44705	Shvabe A K 45043
Santurio J 47150	Schild L 47152	Schulz 45711	Senze A 45153	Shvanich V N 46093
Saphir B 44863	Schill L 48421	Schulz A 48984	Serevo T S 44432	Sibilla C 42216
Saphir O 45787	Schiller J 46085	Schulz N E 48984	Serres J R 45271	Sibilla C 42376
Sapp J E 44646	Schindler G 44367	Schulz T 48985	Sers J 46734	Sibilla C 42377
Sappa F 42412	Schindler H 42476	Schulze H 44486	Servat E 43882	Siddiqui R H 49087
Sappa F 42413	Schirm N F 48858	Schupf W 46088	Servetaz J 45789	Sidorov V M 45294
Saraev I 46623	Schlaman E 46648	Schure P S J 42350	Service M M 46320	Sieber G 44301
Sarasola J A 42318	Schlange E S 45148	Schüssler 46089	Servier J 45232	Sieber H 45920
Saravi 42319	Schlebach 44703	Schütz F 42214	Serviss G H 45040	Sieburth L R 42723
Cisneros R 42319	Schlebach 44704	Schuurman J J 43997	Serviss G H 45041	Sieka M 45156
Sarfatti G 12663	Schlenker G 44423	Schuylenborgh J van 43822	Seth S K 44409	Sigafos R S 43744
Sarkisov A Kh 44860	Schlösser H 43392	Schwab G O 44143	Setori B J 47670	Signer R 47506
Sartz R S 44515	Schmid F 46556	Schwabe K 45919	Sevastopulo D G 46486	Sijtsma P 48291
Sasaki Y 47248	Schmid F 46557	Schwabe K 45920	Sexauer F H 47291	Sijtsma P 48292
Saskatchewan 48856	Schmid K 42707	Schwaller A 45038	Sexsmith J J 43641	Silfversward H 44249
Dept of Co-operation and Co-operative Development 48856	Schmid K 48166	Schwanitz F 42782	Seyler H G 43395	Silin P M 48151
Sasman L M 48712	Schmidt 43393	Schwartz C D 43230	Sezgin A 48270	Silva H J L da 43702
Sasser J N 42387	Schmidt E L 43851	Schwarz T A 47622	Shabalín N 46625	Silva M E M da 42324
Sato K 44430	Schmidt F A 46086	Schweiger H 46241	Shacklady C A 44750	Silva P 42378
Sauberlich H E 42704	Schmidt H 43107	Schweizerischer Geflügelzuchtverband 45605	Shadrin M G 45306	Silva P 46487
Sauferer W 48857	Schmitt N 43640	Schweng L D 48422	Shaffner C S 45440	Silveira A de C 42886
Saunders D H 46390	Schmitt R G Jr 46898	Schwerdtfeger F 42215	Shahani H S 48004	Silveira A H da 47555
Saurat P 44861	Schmorl K 47749	Schwerin G 44678	Shanks J B 42714	Silveira A H da 48715
Savage D A 45037	Schmuckl K 45398	Schwimmer S 47752	Sharar S 45042	Silveira G G da 43079
Savchuk O 45648	Schneeberger E 45398	Schwizer M 45039	Sharav I A 44167	Silveira G G da 44904
Savoia H J 42238	Schneider A 46345	Schwörer F J 44103	Sharp A J 41985	Slimbriger F 46696
Savoia H J 42269	Schneider B 45080	Sciaroni R H 42294	Sharp D G 45489	Simek M 43945
Savoia H J 42270	Schneider F L 45710	Sciaroni R H 46157	Sharpe R H 43251	Simlote K M 42716
Sawyer A F 46972	Schneider H 42708	Scott C E 42343	Shastri G A 45154	Simmons H F 42724
Sax K 42705	Schneider H A 48983	Scott D H 42321	Shatilov V 46796	Simola P 44562
Sax K B 42464	Schneider R 42709	Scott D H 42438	Shaulis N J 43642	Simon M 44024
Saxhaug J 44550	Schneider V 45788	Scott E 46485	Shaveko I 44751	Simon M 45921
Saxl V 47501	Schnell R 42080	Scott H S 48860	Shaw B T 46944	
	Schnittker-Plass G 43071			
	Schnitzer J G 47830			



Item	Item	Item	Item	Item
Simonet R A 47212	Smith C L 43249	Sokolov S A 43400	Sprehn C 45307	Stevens H 49137
Simonov N S 46526	Smith C L 43253	Sokolova M F 44009	Spring D 48600	Stevens H N 43403
Simonov S N 42996	Smith C N 46558	Sokolovskaja I I 45630	Sprinks F O 43704	Stevens L 48717
Simonpletri R H 44863	Smith C S 48425	Solari G A 48505	Spurling M B 42725	Stevens O A 42481
Simonpletri R H 44864	Smith C T 44083	Solaroli V 46388	Spurling M B 44168	Stevenson G 46839
Simonpletri R H 47832	Smith E F 45009	Soldati M 44981	Squires J W 44306	Stevenson J 48867
Simons J W 46893	Smith E J 44753	Soldini S A 48931	Ssorin V A 44489	Stevenson J A 42328
Simonson R W 43902	Smith E V 47507	Sollis R F 43679	Staab J 46941	Stevenson V 43404
Sims I H 45635	Smith F G 42721	Solodovnikova O 46346	Stabler S P 45483	Stevenson W W 43405
Sims J W 48962	Smith F H 47927	Somers R K 44865	Stacey W A 44590	Stevenson W A 45925
Sincock R L 44060	Smith F W 44039	Sommer 44062	Stacy S V 42909	Stewart A 44985
Sindicato Nacio- 45551	Smith G L 46162	Sommer H H 47356	Stafleu F A 42081	Stewart D M 45217
nal de Gana- 45551	Smith G M 42722	Sommerkamp 44104	Stafseath H J 45696	Stewart G 43000
derfa	Smith G W 45608	Songcuan M S 45610	Stahl A L 47665	Stewart G F 48080
Singer S J 42784	Smith H 48078	Soost R K 42537	Stahlberg S 42662	Stewart G H 46861
Singh B 45157	Smith H H 42536	Sopikov P M 45441	Stahler L M 43646	Stewart J G 42810
Singh B 45713	Smith H P 46690	Sorenson C J 45883	Stakman E C 42291	Stewart J G 43001
Singh D B 48593	Smith H R 47073	Sorenson C J 45884	Stall C W 48245	Stewart J L 49135
Singh D P 43703	Smith H W 42388	Sorokin S V 46163	Stall C W 48716	Stewart O C 42415
Singh K 46386	Smith J A 47074	Soth L K 48865	Stallinga G 48427	Stewart R D 48318
Singleton D E 45044	Smith J C 44061	Sotnikov V P 43905	Stallones B E 47276	Stewart T J 47145
Singleton W R 42535	Smith L 42723	Sourdilat J M 48426	Stallwood B R 46488	Stewart T J 47154
Singleton W S 47991	Smith M 44621	Sousa A T de 44063	Stambovsky L 48987	Stewart W F 44538
Singruen E 46945	Smith O 42660	South Australia 44443	Stamm E P 45563	Stewart W N 41987
Sinha B N 44980	Smith P 47872	Dept of Woods 42695	Stamp J T 45702	Steyaert R L 42082
Sinks A H 42997	Smith P F 42695	and Forests 47355	Stamp L D 43906	Steyn D G 43705
Sinskaja E N 42998	Smith P I 47355	Dept 48982	Stamper A B 44537	Steytler R van R 43938
Sirotti G 49044	Smith P W 48982	South Australia 47757	Stamper E R 43647	Stift K 45790
Sirri A 45210	Smith R 43903	Statistical Off 43904	Stanberry C O 42726	Stiles C F 45926
Sites J W 47573	Smith R 43904	South Australia 44303	Stanisak O 45273	Stillinger J R 44591
Sitton B G 43242	Smith R E 45391	Woods and 44304	Stanley W G 47251	Stirling W F 43406
Sitton B G 43643	Smith S G 46243	Forests Dept 44304	Stansbrey J J 47706	Stiver C E 43407
Sjetne 47556	Smith W 45716	South Carolina 44304	Stanton H H 45261	Stiver E N 44067
Sjogard M 48424	Smith W D 47754	State Commis- 44304	Stapleton H N 46838	Stöck 46222
Sjogren S 46094	Smith W D 47755	sion of Forest- 44304	Starcher G C 44236	Stöckerl P E 46095
Sjoestrom L B 42292	Smith W H 44504	ry 44304	Stare F J 48974	Stockholm 48429
Skaare S 42887	Smith W W 45804	South Dakota 47389	Stare F J 48986	Konjunkturin- 48429
Skachkov M E 45350	Smits B L 42785	Cooperative 47389	Starke H R 44169	stitut 48429
Skade H N 44536	Smits H 43930	Crop and Live- 47389	Starkey R L 43851	Stockton Union 47874
Skaltveit T 42213	Smock R M 42480	Stock Reporting 47389	Starnes O 44227	Stockyards 47874
Skard O 47557	Smock R M 47075	Serv 47389	Starr M P 45468	Stoddart L A 43000
Skarman S 45291	Smol'janinova 41986	South Dakota 47758	Starygina L P 42351	Stoenner H G 46148
Skelton W E 48730	Smudski V L 48996	Cooperative 47758	Staten G 44065	Stokes D R 47619
Skepper A H 47673	Snell E E 42724	Crop and Live- 47758	Statler S S 46138	Stokke H 46840
Skinner F A 43852	Snell E E 45454	stock Reporting 47758	Statuti M 43234	Stokstad E L R 45464
Skiver C E 42888	Snider G G 45677	Serv 47758	Stauning A 48615	Stolze 43648
Skok J 47613	Snoop J 48005	South San Fran- 47758	Stauning A 48913	Stone A 46324
Sköld P 44388	Snoeybos G H 45609	cisco Union 47758	Stearns J 47973	Stoner W N 42218
Skoog F 42607	Snyder E 43233	Stockyards 47758	Stebbing E P 44341	Storie R E 44068
Skoog F 42717	Snyder G B 48271	Southern J H 48590	Stebbins G L Jr 42727	Storms D A 48718
Skoog F 42718	Snyder M R 43533	Southern F W 43173	Stebnicki S 44983	Storvick C A 49000
Skoog F 42719	Sobolev S V 47508	Souza R L P de 47509	Stecher H 42144	Story R 42083
Skoryna S C 45272	Sobrero L R 43863	Sow M F 43924	Steding 48428	Stoumont A D 44228
Skottsberg C 42120	Sociedad Na- 48863	Soyka W 46417	Stedje O 47215	Stout O E 43978
Skottsberg C 49083	cional Agraria 48863	Spain Ministerio 44275	Stedman A D 47036	Stout P R 42729
Skreden I 47214	Ciudad Nacio- 48863	de Agricultura 44275	Steele B F 48996	Stout R W 44069
Skvorföov S 42807	nal de Agricul- 48863	Servicio de 44275	Steele J A 44984	Stoutemeyer V T 43408
Sladden G E 47009	tura 48863	Estadística 44275	Steele T E 42909	Stover E L 42482
Slate G L 43109	Société des 47010	Spalek V 44345	Steele R L 42379	Stover R H 42182
Slate G L 43232	Experts- 47010	Spalek V 44632	Stefanelli G 46628	Strakhovskaja 46244
Slavin G 45158	Chimistes de 47010	Sparks W T 46872	Stefaniak W 44866	Strandtmann R W 46166
Sleesman J P 47605	France 47010	Sparrow A H 42538	Stefaniak W 45392	Stransky E 48988
Slein J B 45644	Commission 47010	Spaulding I A 48637	Stefanski W 44867	Stratton C L 45611
Slinger S J 45482	d'Etude des 47010	Specht W 47153	Steffek E F 43401	Stratton C L 46096
Slogteren E van 43399	Substances 47010	Speers A M 47275	Stehlik G 48781	Streat Sir R 48933
Slooff W C 42205	Etrangeres 47010	Speese B M 42423	Stein E 45274	Strehler B 42730
Small A R L 44302	dans les All- 47010	Speese B M 42424	Stein E 48932	Strellfaeva M 43235
Small C J 46626	ments 47010	Spencer C B 45923	Stein G 48866	Streyffert 44317
Small T 46242	Society of 44358	Spencer D 42557	Steinbach M 45762	Stribley R C 44724
Smallfield P W 43883	American 44358	Spencer D 42558	Steinberg R A 42327	Stricker M H 46097
Smart M E 42325	Foresters 44358	Spencer E L 43080	Steindl F 42475	Strobel D R 47252
Smirnov T 47833	Washington D C 44358	Spencer F H 45045	Steiner F 45653	Ströbele 47312
Smirnov V F 43172	New York Sect 44358	Spencer H 46164	Steiner H 45924	Stroebe H 43409
Smit B 45922	Society of Public 46535	Spencer J E 47510	Steinhilb K E 47624	Strogyl P 47357
Smit B 46387	Analysts and 46535	Spencer K 44064	Steinmann E 42728	Strong T H 48624
Smit C J B 46520	Other Analytical 46535	Spencer L 47311	Steinmann F 44066	Strout E B 43410
Smith A C 47250	Chemists 46535	Sperry O E 43644	Stelly R 48079	Struble E 47358
Smith A D B 48568	Analytical 46535	Spies J 49137	Stemler F W 45813	Struble F B 42329
Smith A H 45025	Methods Com- 46535	Spless P 42999	Stenersen I 43402	Struck 45158
Smith A H 47353	mittee 46535	Spiranec M 44305	Stepanenko D P 43174	Struckmeyer B E 42483
Smith A L 42326	Solderer J 46627	Spirites M A 46323	Stephen A M 44660	Struckmeyer B E 42731
Smith B L 42623	Sokolov 44506	Splendiani F 44982	Stere J B 46724	Struckmeyer 42732
Smith B W 42720	Sokolov A A 47756	Spoelstra P A 46873	Stetson A E 48506	Struckmeyer B E 42733
Smith C E P 47072	Sokolov N S 43089	Sprague D C 46842	Steven H M 44389	Strunz H 48293
Smith C F 43386	Sokolov P P 43534	Sprague D C 49097	Stevens C 44868	Struys L C 43411



	Item		Item		Item		Item		Item
Stuart R L	43412	Sykes G	45484	Tennessee	49045	Thung T H	42205	Trentini R	46167
Stubbs J R	46574	Sykes J F	45155	Dept of Agri-		Thüngen D	44105	Trentini R	46493
Stuckl F	47359			culture		Freiherr von		Trentini R	46494
Stull J W	47293	Sylvestre P E	44759	Tenney R I	47154	Tiedjens V A	43535	Trethewey L P	43940
Stumpf P K	42786	Sylwester E P	43650	Teplukhin A	46841	Tiemann H D	41589	Tret'jakov N P	45539
Subramaniam	42539	Sylwester E P	43651	Tercero R A	48989	Tikhomirov B A	41589	Tret'jakov A	45384
M K		Synge P M	43333	Tereshina V	48935	Tikhonov L S	48321	Trigg R S	48008
Subramaniam	42678	Syverton J T	46506	Ternovskiy M F	42219	Tilden J W	46247	Trip J	43536
M K		Szafarski J	44869	Terra M G	47831	Tilden J W	46327	Tritenbach P	47560
Subramanyam K	42484	Szyfelbein E	44870	Terrier C	42264	Tindall C	46978	Trof'skaf E	41991
Subramanyam	46325	Szyfres B	44871	Tessi J L	42352	Tindall C	48081	Trof'skaf N P	46104
V K		Szynkiewicz Z	45767	Tessi J L	42353	Tingleff N	46800	Trof'skaf N P	45991
Sugawara T	42889			Testoni R	45764	Tinsley J	43825	Troop C R	45165
Sugi T	42380	Tabakov A V	46099	Teterina M	48667	Tinsley W V	48990	Tröschner T	47848
Sullivan W	48527	Tabler K A	44986	Teuton F L	46946	Tippit O J	45048	Tröschner T	47849
Sullivan W	48530	Tabor P	43939	Texas Pecan	43254	Tippo O	41987	Trouillon L	42220
Sullivan W	48534	Tagaki S	45346	Growers		Tischer R G	47674	Troupin G	42089
Sulsona P T	43871	Takahashi Y	42177	Association		Tisdale W H	42331	Troy V S	47675
Sülze L	44276	Takai S	42465	Textile Mercury	47513	Tishchenko M	46801	Truffert L	47011
Summerhayes	42084	Takata R	46936	Teyam	48569	Tisseron J	44171	Trulovich V K	42541
V S		Takhtadzhian	49090	Thalenhorst W	46418	Titenko V	46071	Trulson M	48974
Summerhayes	42085	A L		Tharp W H	45930	Titone F	44769	Trulsson G	45739
V S		Talati J H	47511	Thaxton J E	46640	Tkachenko M D	46697	Truoz E	44072
Sumner G R	45106	Talbert R E	43652	Thayer J B	48876	Tkachenko M E	44342	Trusov V I	46938
Sumpt K C	45927	Talbot P L	47258	Thayer R H	45485	Tpadvine N F	44240	Tselishchev G	46105
Sumption M R	48649	Taleporovskiy	47512	Thayer R H	48042	Tobey E R	47390	Tseug P M	42647
Sunday M B	47650	A M		Theaker T F	46101	Tobey E R	46914	Tsui C	42718
Sunde M L	45454	Talhok A S	45929	Thebis R	46799	Tolney H R	43006	TSymek A A	42416
Sundelin G	44070	Tallarico G	43003	Thebis R	46896	Tolner J	42741	TSytsenko V	46802
Sunjić J	44307	Talsma D	45160	Theis E R	47930	Tombesi L	42741	Tubbs L G	45214
Surber E	44490	Tamarina N A	46245	Theis T N	42351	Tomey A	45816	Tucker H	47877
Sure B	49014	Tamba T	43081	Théodorides J	46209	Tomson C K	44987	Tuckey S L	47300
Sustrina V E	42921	Tamm O	44433	Theron B	45649	Tonkin J	43083	Tuckey S L	47300
Sutcliffe A	43413	Tanda S	45393	Thiery P	44253	Tontchev T	42332	Tufvesson G	45277
Suter R C	45928	Taninaka O	45636	Thies W H	43175	Tontz C	46102	Tugaut J	48431
Suter R C	46749	Tao C T	43735	Thiessen R Jr	49001	Toogood J A	44217	Tukey H B	47561
Sutherland W W	47572	Tapernoux A	47846	Thijl J W	45161	Torgeson O W	44587	Tully W C	45049
Sutton W A	48868	Tanlizer R	44808	Thimann K V	42736	Torpanov F G	44874	Tul' zhenkova	43537
Svanberg O	45046	Tapp F C	47360	Thimann K V	42737	Torreabrera J	43117	F F	
Svendsen C	45409	Taranina S	47929	Thimann K V	42738	Torres J A	44218	Tunblad B	45932
Svendstrup J K	43002	Tarasov G F	46100	Thistle M W	47931	Torres J A	48167	Tuovinen A	44592
Svenska	47216	Tarasewicz W	45275	Thomas A	47948	Torres Filho A	47760	Turc L	43783
Mejeriernas		Tarasov V R	44872	Thomas A S	48430	Torres Filho A	48431	Turk K L	43007
Riksförening		Tardieu-Blot	42094	Thomas G E	46242	Torres Filho A	48432	Turk K L	45050
U P A		M L		Thomas H	44398	Torres Muñoz	44875	Turk K L	45053
Svenson B G	43110	Tarone E A	48688	Thomas H T	46326	L E		Turnbull J S	47218
Svensson K G	45212	Tascheri E	46629	Thomas H W	47889	Tortorelli N	45213	Turnbull R F	44572
Sveriges Biod-		Tascheri E	46798	Thomas J	44399	Tosco U	42110	Turner C W	45051
larses Riksför-	46098	Tasker J	48510	Thomas J A	45162	Toth L	45931	Turner F N	45166
bund		Tatum E L	42735	Thomas J E	42206	Toth S J	43805	Turner H J	46495
Sveriges Po-	47553	Tatum L A	42828	Thomas J W	45047	Totty H M	43416	Turner J	43864
mologiska För-		Taylor C C	44448	Thomas R	48719	Touchard D	48006	Turner M	43421
ening	47559	Taylor G	44241	Thomas R	48977	Touchberry R W	44988	Turner N	46390
Sveriges Po-		Taylor H P	48319	Thomas S R	44170	Toutant J	46979	Turner R C	43957
mologiska För-		Taylor J	45672	Thomas S L	46246	Townend P P	47515	Turner W C	43422
ening	48934	Taylor J C	46649	Thomason W A	47514	Townsend G F	46103	Turner W F	42989
Sveriges Po-		Taylor J K	45613	Jr		Townsend J C Jr	47693	Tursukov V K	46106
mologiska För-		Taylor J S	43907	Thompson A E	44391	Townsend L H	46419	Tursunkhodzhayev	44073
ening		Taylor J S	46489	Thompson A H	42739	Toyama Y	48007	Z	
Svetozarova V V	42441	Taylor K S	46490	Thompson A H	42740	Tracy P H	47293	Tuttle W W	48991
Swirshchevskiy	46797	Taylor L	45347	Thompson H C	42711	Tracy P H	47300	Tützen R	44434
B S		Taylor L	45348	Thompson H J	43460	Tramposch E J	43417	Tyler W E	47927
Swirsky A	46395	Taylor L	45725	Thompson J I	47217	Trapold J H	45276	Tyler W J	44986
Swaine G	46389	Taylor L	45725	Thompson L A	43111	Traub H P	41990	Tyler W J	44990
Swamy S K	44675	Taylor L	47875	Thompson M A	48616	Traub H P	42088	Tyrtshomies	44282
Swanson C P	42734	Taylor L W	45614	Thompson P C O	47609	Traub H P	42087	Tyrer T G	48511
Swanton M K	48869	Taylor M C	46937	Thompson R A	46289	Traub H P	42088	Tyszkiewicz S	44491
Swart J J	42086	Taylor M C	48320	Thompson R B	48042	Traub H P	43418	Uda M	44074
Swayer W J	47277	Taylor M W	45481	Thompson R C	41988	Traub H P	43419	Uda N	44686
Sweden Domän-	48503	Taylor M W	45486	Thompson R C	45410	Traub H P	43420	Udrin N R	46107
stvtrelsen		Taylor N H	43908	Thompson S L	44873	Travassos L	46491	Uganda Veteri-	44876
Sweden Lant-	48446	Taylor P R	47596	Thompson W R	43004	Traver J R	46559	nary Dept	
brukssvtrelsen		Taynton M	47876	Thomsen L C	47294	Travis H F	48104	Uggen O	44564
Swecker J B	48507	Teague H S	45763	Thomson A G	44582	Trawinska J	47932	Uhlend R E	43746
Sweet M C	45612	Teakle L J H	43909	Thomson A G	47625	Trawinski A	47890	Uitewall A J A	43423
Sweet R D	43524	Team C B	45352	Thomson G G	47625	Treccani V	43853	Ukhanov V V	44369
Sweet R D	43649	Teas H J	42540	Thomson R K	46913	Tregaskes S G	48433	Ulbaek S	44754
Swenson P A	42570	Teas H J	42575	Thon K A	44400	Trehan K N	46492	Ul'fanishchev M	43211
Swiader J	44390	Tedin O	42512	Thornton H R	45715	Tremblay T	44071	Ulrich	44687
Swift L J	47574	Teixeira e Silva	48186	Thorold P W	43653	Trembley M	44989	Ulrey O	48878
Swigart B	46977	H M		Thorp F Jr	45696	Trendtel	45163	Ulrich H	46329
Swingle C F	42767	Tejada J de D	48153	Thraikill F B	46155	Trenkle H	45164	Ulyett G C	46328
Swingle R U	42330	Tempany Str H	48609	Throckmorton	43005				
Switzerland	47928	Temple K L	43745	R I					
Bundesamt für		Templeman W G	43591	Throm E L	43415				
Industrie Ge-		Templeton G S	45638						
werbe und Ar-		Templeton G S	45654						
belt									
Sword J	47759								



	Item		Item		Item		Item		Item
Underwood F L	48512	United Nations	46909	Uotila P J	46803	Vaurie P	46250	Virginia Poly-	42811
Unger K	46376	Educational		Uphof J C T	43539	Vaysse J	45542	technic Institute	
Union Nationale	42890	Scientific and		Upton E W	47392	Vaysse J	45543	Agronomy Dept	
des Cooperatives		Cultural Organ-		Urner F E	48087	Vazquez G L	46499	Visser S H	48437
Agricoles de		ization		Uruguay Comi-	48938	Veasey J E	45313	Visser W C	43914
Céréales		United Nations	46911	sion Honoraria		Vecht J van der	46500	Visser W C	43915
Union of South	48168	Educational		del Contralor de		Vedanl A	47103	Visser W C	43916
Africa Con-		Scientific and		Exportaciones		Vedenfapin G	46805	Visser W C	44178
troller and		Cultural Organ-		e Importaciones		Veenenbos J S	44177	Viswanath B	43827
Auditor General		ization		Usenko N V	46108	Veenstra H	42280	Vittum M T	44078
Union of South		United Nations	46915	Uspenski L	46169	Vegetable	43541	Vivot R	46902
Africa Decid-	47676	Educational		Ustinkin B	46071	Growers		Vix H L E	47998
uous Fruit		Scientific and		Ustinova E I	42742	Association		Vlasuk P A	44314
Board		Cultural Organ-		Usueli F	44755	of America		Vogel F H	44689
Union of South	42196	ization		Uttarback B C	46539	Veilleux J M	45167	Vogt E	42334
Africa Dept of		United Nations	48999	Uygurer S	47983	Veldhuis M K	47574	Vogt G B	46252
Agriculture		Educational		Uygurer S	48254	Venezuela	43112	Volx S	43764
Union of South	42950	Scientific and				Direccion de		Volcani R	47253
Africa Dept of		Cultural Organ-				Agricultura		Volgunov G P	47575
Agriculture		ization				Venge O	45168	Volkov G D	45308
Union of South	42987	U S Congress	44075			Venge O	45292	Volkov G D	45394
Africa Dept of		House				Venkajee T	44648	Volosky Yadlin	43543
Agriculture		Committee on				Ventura E	46452	E	
Union of South	46490	Agriculture	48323			Verbist J	47157	Voluznev A G	43238
Africa Dept		U S Congress				Verbruggen A	43542	Volz E C	43274
of Agriculture		House				Verdier P	46251	Vondell J H	45618
Union of South	46520	Committee on				Vereeniging	47324	Von Loesbecke	47582
Africa Dept of		Agriculture	49048			voor den		H W	
Agriculture		U S Congress				Katoenhandel		Voorhis J	48727
Union of South	47737	House				Verenano O	42486	Voor M van der	43917
Africa Dept of		Committee on				Verhulst M P	47677	Vorob'ev A I	42543
Agriculture		Appropriations				Vermeulen C	48187	Vorster P W	43544
Union of South	48040	U S Congress	46916			Vermont Woods	44597	Voss	45544
Africa Dept of		House				Products Con-		Voute E J	45279
Agriculture		Committee on				ference		Voyer M	47934
Union of South	48168	Foreign Affairs	47037			Verusi D R	44212	Vries D A de	43747
Africa Tobacco		U S Congress				Vesa I	47219	Vries D A de	43748
Industry Control		Joint Com-				Vesper K	44757	Vrydagh J M	46253
Board		mittee on De-				Vestal C M	45765		
U S S R Upray-	48435	fense Produc-	47516			Vetter H	45443	Waas G J	48880
lenie Optovoi		tion				Viado G B	46522	Wachs S	43012
Knizhnoi	44516	U S Congress	47155			Viado J	44298	Wachter H	44410
Torgovii		Senate				Viado J	44313	Wachter H von	46875
Sofuzoptknigotorg		Committee on				Vianna e Silva M	44077	Wade G C	42746
U S S R Sovet	44516	Agriculture and				Viaud G	45818	Wadham S M	48881
Ministroy		Forestry				Vickers A	47525	Wadleigh C H	42605
Union Stock	47878	U S Dept of	48105			Vickery L S	46874	Waegemans G	43918
Yard and Trans-		Commerce				Vidard D	48638	Wagner E	16391
it Co of Chicago		U S Dept of	46917			Vieck G	45278	Wagner J B	44628
United Nations	48513	State				Vielra G V N	44905	Wagner K A	42111
United Nations	44172	U S Dept of State	48206			Viel G	45936	Wagner R P	42787
Economic and		Div of Library				Viel G	46452	Wagner T H	44601
Social Council		and Reference				Viets F G Jr	42744	Wahl R	48172
Economic Com-		Serv				Viets F G Jr	42745	Waibel C	43138
mission for Asia		U S Dept of State	48207			Viette P	46501	Waite Agricul-	46503
and the Far		Div of Library				Viette P	46502	tural Research	
East		and Reference				Vigevano A M	46358	Institute	
United Nations	48246	Serv				Viggiani G	48514	Dept of Ento-	
Economic and		U S Economic	48363			Vignolo-Lutati	42417	mology	
Social Council		Cooperation				Vigo J M	42892	Wakeley R E	48745
Economic Com-		Administration				Viguerie P de	44265	Wakely R D	47766
mission for		U S Economic	47090			Villas L	43854	Waldor W O	47012
Latin America		Cooperation				Villens S B	44649	Walkden H H	45937
United Nations	48247	Administration				Vileta Y	44344	Walker A	43706
Economic and		Div of Statis-				Viljoen D T du P	47526	Walker G F	43742
Social Council		tics and Re-				Vilke K	45293	Walker H B	46632
Economic Com-	48248	ports				Vilke K	45298	Walker J C	42221
mission for		U S Federal	48725			Villard A A	46631	Walker L H	47678
Latin America		Civil Defense				Villares J B	44906	Walkup H G	48020
United Nations	46906	Administration				Villares J B	45215	Wall M E	47078
Educational		U S Forest	44507			Villares J B	45216	Wall P F	43013
Scientific and		Serv				Villaudy A	46983	Wall P F	48515
Cultural Organ-		Southeastern				Villagas V	47836	Wallace B	46331
ization		Forest Experi-				Villumstad E	46042	Wallace D H	47038
United Nations	46907	ment Station				Vincent G	44345	Wallace H D	45053
Educational		U S Library of	48437			Vincent P	46911	Wallace M A	48054
Scientific and		Congress				Vincett L S	45182	Wallace M J	44079
Cultural Organ-		Legislative				Vine V	43301	Wallace M J	44080
ization		Reference Serv				Vinea L U	46806	Wallace R H	42747
United Nations	46908	U S National	43826			Vineyard Mrs O	43424	Wallace T	44081
Educational		Phosphorus Re-				Vink A P A	48438	Wallace W	48088
Scientific and		search Work				Vinnik B I	48155	Waller P	45054
Cultural Organ-		Group				Vinther D H	44278	Wallis G C	44758
ization		U S Off of Inter-	48936					Walls C E S	48440
		national Trade						Walsh E P	44650
		Areas Div							
		Special Pro-							
		grams Br							



Item	Item	Item	Item	Item
Walsh L B 41992	Weiss J 42748	Wickard C R 41759	Wilson R W 46661	Woodward T E 46392
Walsh M P 42748	Weiss P E 43658	Wickard C R 43658	Wilton G M 47681	Woodward T E 46393
Walter H E 47344	Weisser 42222	Wickenden H 45055	Wimhurst C G 45289	Woodworth R C 47770
Walter H E 47364	Weissman G S 42755	Wickenden H 46671	Wimmer F X 44879	Woodbridge W R 45174
Walters M 49101	Welande 44317	Wiechelt H 48518	Wimmer F X 45791	Woolfolk E J 43016
Walther R 46670	Welch C L 42922	Wiechelt H 48610	Windlehausen 43865	Woolfolk E T 43665
Walton H V 46842	Welch D S 42223	Wiehe A 48156	Wine Institute 47162	Woozlev E 44347
Walton L 42917	Welch R F 49089	Wiel E van de 48005	Wing M W 46423	Work P 43547
Walton R H 47879	Welch W H 42112	Wiesendanger H 47366	Wingard M R 48015	Work P 43548
Walton R R 45933	Weldon M D 44084	Wiesmann R 46256	Wingard S A 42322	Work P 43549
Wangaard F F 44598	Weldon M D 44085	Wieting C M 48884	Winkler A 43255	Worstell D M 45068
Wanner H 42749	Weldon M D 44235	Wigglesworth V B 45819	Winter A R 45546	Worswick G D 42760
Wanner H 42750	Wells D G 42544	Wightman J 48090	Winter A R 48031	Worthington J 46651
Wanner H 42751	Wells D G 42545	Wikerhauser T 45171	Winter A R 48091	Wright A H 42813
Wanner H 42752	Welsh S W 44346	Wiklander L 43797	Winter J D 47019	Wright C E 47685
Wanson M 46332	Welsh Agricultural 48882	Wiklander L 43828	Winter J D 47682	Wright G G 45644
Warburg O 42573	tural Organisa- 43790	Wiklander L 43829	Winterbotham J 44760	Wright G W 44584
Ward G L 46170	tion Society 43790	Wiklander L 43919	Wirth L M 45740	Wright J 44623
Wardrop G 46807	Welvaert W 43790	Wiklander L 44652	Wirth 47163	Wright J G 44765
Ware G G 44392	Welvaert W 43790	Wikstrom J H 48013	Wirth E D 46110	Wright J K 48886
Ware R R 48516	Wendell E A 46633	Wilbaur R 44315	Wisdom E F 46889	Wright P H 46112
Warmbrunn 43656	Wennblom R D 42949	Wilcocks H A 47154	Wise G H 45056	Wright R C 47071
Warmbrunn 46254	Wens H M 44877	Wilcox F A 47154	Wisniewski J 47241	Wright S J 46635
Warne W E 44179	Went F W 42756	Wilcox J A 46257	Wissenschaft- 47164	Wrighton F E 42418
Warner E A 45726	Went F W 42757	Wilcox W W 47039	liche Station 47164	Wrigley R L 43000
Warren G F 43600	Werneck F L 46560	Wilczek R 42077	für Brauerei 43430	Wührer P 47168
Warren G F 43657	Werner H O 47617	Wilczek R 42092	Münich 43750	Wulfen von 46726
Warren G L 43714	Weseth G 46634	Wild A 43830	Wit C T de 43750	Wygodzinsky P 46394
Warren L A 48722	West C J 44651	Wilde H E 46504	Wit W de 47579	Wylie I 44943
Warren S W 46984	West C J 44661	Wildman S G 42784	Witham P E 47165	Wyman D 43431
Warren S W 47692	West D B 47160	Wilds G J 42924	Witt M 45218	Wyman D 43432
Warren S W 48310	West G 45545	Wiley L 43176	Witt P R Jr 47166	Wyoming Agri- 46334
Warren S W 49079	West Bengal 47091	Wiley R H 48014	Witt P R Jr 47167	cultural Experi- 46334
Warstat 48570	Provincial 47091	Wiley W J 47367	Witte A 44435	ment Station 46334
Warwick W A G 44180	Statistical Bur 44370	Wilflinger 43427	Wittmer W 46258	Laramie 46334
Washko W W 42925	West-Nielsen G 44370	Wilflinger 43427	Wittmer W 46258	Dept of Ento- 46334
Wasmuth G 46854	Westberg D L 42336	Wilhelm 44087	Wittmer W 46258	mology 46334
Wassenaar T 43014	Westberg F 47599	Wilhelm 44087	Wittmer W 46258	Wyson N B 42245
Wasserthal- 45299	Westbrook E C 44086	Wilhelm 44087	Wittmer W 46258	Wyzyński J 45175
Zuccari E von 45299	Westbrook E C 47527	Wilhelm 44087	Wittmer W 46258	
Wasson R A 44082	Westbrook R D 47998	Willamson J J 46390	Wittmer W 46258	
Watanabe T 48517	Westcott J C 44508	Willcox O W 44088	Wittmer W 46258	
Watkins G M 42226	Wester H E 42389	Willie R 45172	Wittmer W 46258	
Watkins J M 46725	Westerhof J J 43943	Willers E H 45236	Wittmer W 46258	
Watmough J 45444	Westerlund A 48994	Williams A C 47927	Wittmer W 46258	
Watson C J 44759	Western 43659	Williams C B 47766	Wittmer W 46258	
Watson E J 46985	Canadian Weed 46561	Williams C F 43240	Wittmer W 46258	
Watson J 42893	Control Con- 46561	Williams D B 47040	Wittmer W 46258	
Watson J A S 44091	ference 46561	Williams D E 45469	Wittmer W 46258	
Watson S A 47766	Westfall M J Jr 46561	Williams D E 45470	Wittmer W 46258	
Watt R D 49092	Westling L L 46987	Williams E 45121	Wittmer W 46258	
Watts J G 45940	Weston S M 45641	Williams E G 42662	Wittmer W 46258	
Watts P S 45169	Weston W H Jr 42621	Williams H B 46505	Wittmer W 46258	
Waugh R K 45217	Westphal A 44841	Williams H H 48995	Wittmer W 46258	
Wearn R B 47949	Westphal A 45266	Williams R R 49015	Wittmer W 46258	
Weatherford 43425	Westre K 47315	Williams S G 45766	Wittmer W 46258	
R V 43425	Weyl 44878	Williams T E 48100	Wittmer W 46258	
Weathersbee A A 46347	Wheat J D 45170	Williams T I 47680	Wittmer W 46258	
Weaver C R 46381	Whelan W J 46924	Williams W J 42788	Wittmer W 46258	
Weaver E K 49101	Whellhan P J 44250	Williams G E 44967	Wittmer W 46258	
Weaver H 44451	Whistler R L 47724	Williamson T W 43944	Wittmer W 46258	
Weaver L E 45619	Whitaker R W 44181	Williamson W F 47767	Wittmer W 46258	
Weaver L O 42335	Whitaker T W 42546	Willies J S 45445	Wittmer W 46258	
Webb B H 47365	White D E 42769	Williner G J 49093	Wittmer W 46258	
Webb C 45683	White F H 43053	Willins P E 47793	Wittmer W 46258	
Webb R E 42777	White H C 44266	Willis P S 46988	Wittmer W 46258	
Webster D R 45271	White J S 47326	Willson F S 47837	Wittmer W 46258	
Weck J 44411	White L C 46939	Wilson A M 43660	Wittmer W 46258	
Weckel K G 47295	White P R 42758	Wilson A M 43661	Wittmer W 46258	
Weddle C 43426	White R T 46255	Wilson A M 43661	Wittmer W 46258	
Weeks D C 42753	White W C 42923	Wilson A M 49016	Wittmer W 46258	
Weeks W D 43173	Whitehair C K 45786	Wilson A S B 42894	Wittmer W 46258	
Weeks W D 44083	Whitehead E L 43085	Wilson A S B 47768	Wittmer W 46258	
Weeth H J 44993	Whitehead E L 43239	Wilson B 46843	Wittmer W 46258	
Wegeit 44604	Whiting P W 46420	Wilson C 42326	Wittmer W 46258	
Wegge W 46650	Whiting P W 46421	Wilson C C 45173	Wittmer W 46258	
Wei C T 42145	Whitmore B 44221	Wilson C G 43428	Wittmer W 46258	
Weidemann A G 43942	Whitnah C H 47251	Wilson D R 45716	Wittmer W 46258	
Weller W 47158	Whitney D J 47562	Wilson E 45621	Wittmer W 46258	
Weill G 48441	Whittinghill M 46333	Wilson E O 46422	Wittmer W 46258	
Weinberger J H 42754	Whorton W J 45620	Wilson G B 42494	Wittmer W 46258	
Weinberger J H 47679	Wiant J S 47045	Wilson H L 47363	Wittmer W 46258	
Weiner R 45941	Wiant J S 47651	Wilson H van P 43429	Wittmer W 46258	
Weingartner H C 47652	Wibling H 44974	Wilson M L 43083	Wittmer W 46258	
Weir W 46986	Wichers H E 46856	Wilson P O 47881	Wittmer W 46258	
Weiss F 47880			Wittmer W 46258	



	<u>Item</u>		<u>Item</u>		<u>Item</u>		<u>Item</u>		<u>Item</u>
Zaitsev I G	45177	Zanini E	48442	Zeist W van	42419	Zimmer F	44996	Zollinger F E	48940
Zajicek J	43256	Zanon V	44995	Zelenski M A	42548	Zimmerman C	46989	Zon R	44316
Zakharevich N I	42547	Zanon V	47220	Zeller	45674	Zimmerman P W	42765	Zuber M S	42895
Zakharov P S	44274	Zanzibar Comp-	48939	Zeller	45742	Zimmerman	42766	Zubriski J C	42767
Zaks M G	45625	troller of		Zeller J	45805	P W		Zuliński T	45396
Zaleski J	44881	Customs		Zenari S	42420	Zimmerman-	43551	Zumbro P B	45622
Zalokar M	42790	Zapletal A	43945	Zetterberg O	47093	Griss S		Zumbro P B	45623
Zanacca G	45084	Zarrow M X	45547	Zharkov V	46796	Zinober M R	45769	Zunino H A	42390
Zanden G v d	45820	Závada J	47576	Zhivoderov S P	47891	Zinsstag V	46117	Zurflüh F	42796
Zander E	46114	Zavagli V	45178	Zhukov N M	45821	Zirkle C	42549	Zuur A J	48443
Zander E	46115	Zayzev A I	44565	Ziebur N K	42764	Ziv S	42227	Zuydam D M	45548
Zanelli P	44183	Zehnder A	42763	Ziegler R J	46116	Zodda G	42010	Zwagerman C	44997
Zaneveld J S	42121	Zeller K	47369	Zijl W J van	45395	Zogalb U D	48255	Zwahlen P W H	48625
								Zwart M W	48005
								Zwick C J	48093































